BERKELEY PUMP COMPANY

SUBMERSIBLE TURBINE PUMPS

8" AND 10" BOWLS

PERFORMANCE CURVES

CURVE	2500
DATE	3-1-84
PAGE	7.02
SUPERSEDES	
All Previously Issued	
2800 Curves	

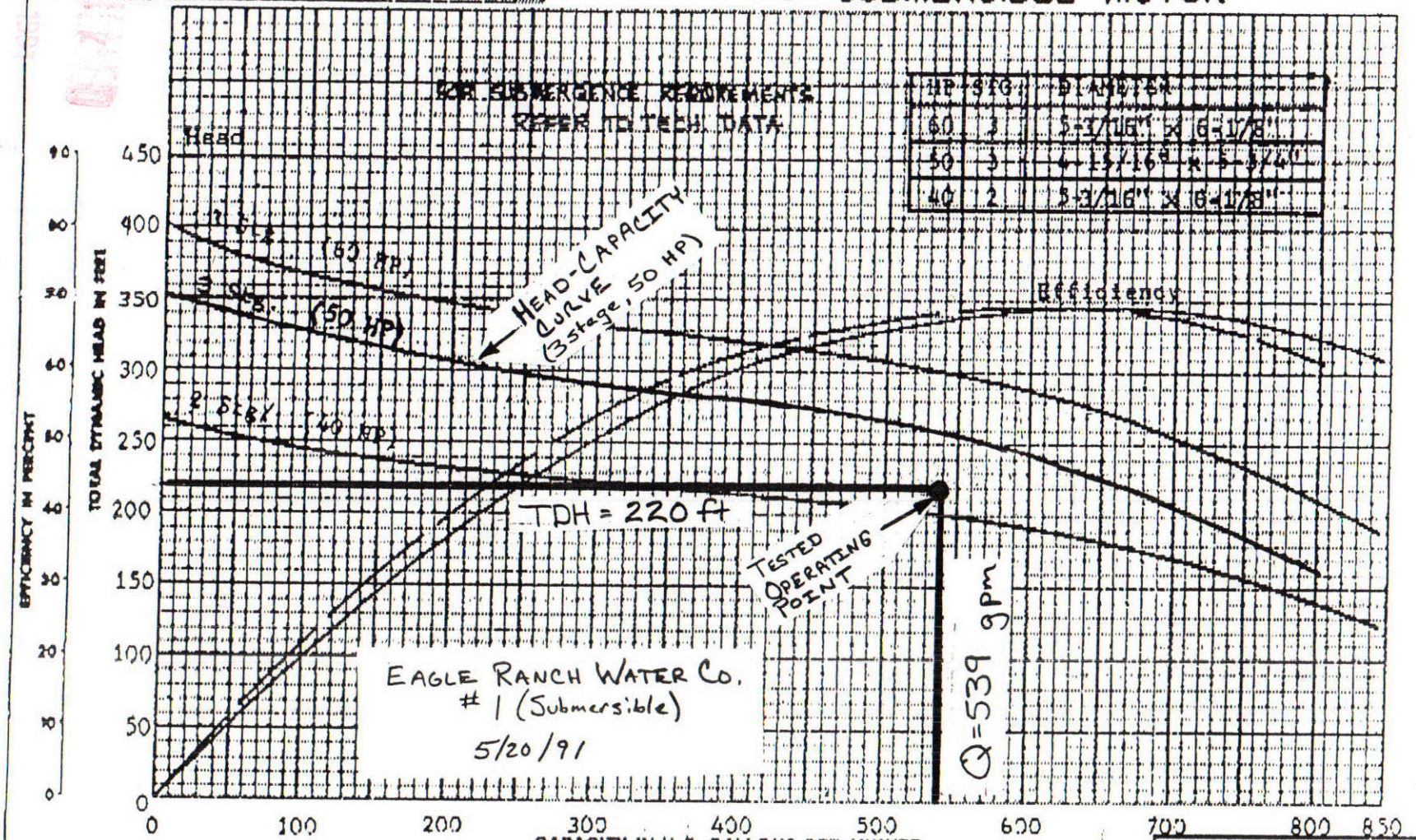
	Bowl	Impeller
Material	C.I.	Brz.
Part. No.	M-3608	M-895
Mach. No.	M-1012	M-895
Diameter	7-1/2" O.D.	5-1/4" x 6-3/16" full

Based on T= 3712 Test of 3 Stage Pump.
Performance for multi Stage Pump.

8" SUBMERSIBLE MOTOR

HP	STG.	DIAMETER
60	3	5-3/16" x 6-1/8"
50	3	4-15/16" x 5-3/4"
40	2	5-3/16" x 6-1/8"

FOR SUBMERGENCE REQUIREMENTS REFER TO TECH. DATA



C-8466 Issue Date 1-24-79 (Supersedes New Dated) 3500 nominal R.P.M.

MODEL 8S4H

BERKELEY®

SUBMERSIBLE TURBINE PUMPS
6" AND 7" BOWLS
PERFORMANCE CURVES

CURVE	2500
DATE	4-1-85
PAGE	5.01
SUPERSEDES	
Curve 2500	Page 5.01
Dated 6-1-83	

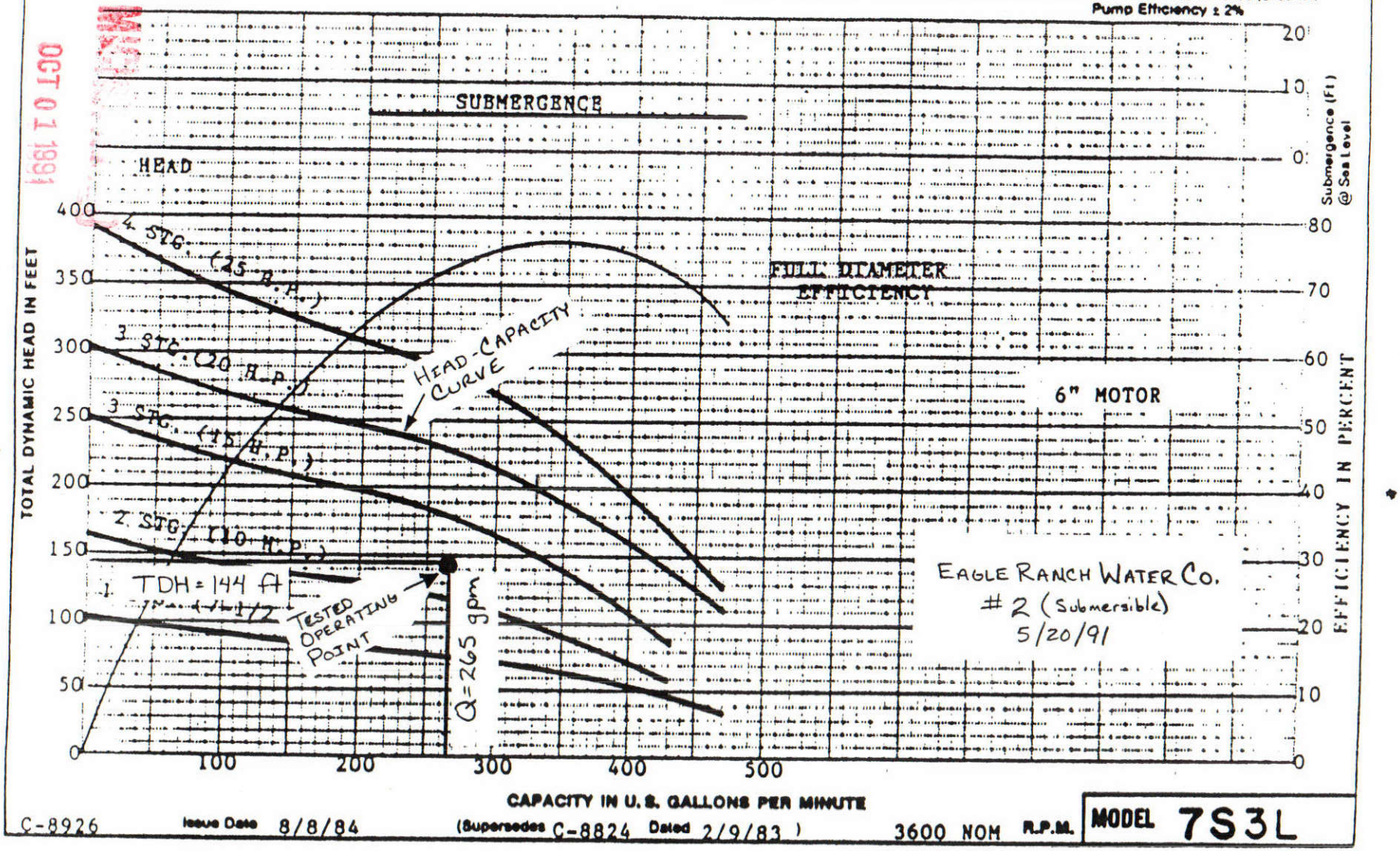
	Bowl	Impeller	HP	STG	DIAMETER	HP	STG	DIAMETER
Material	C.I.	BRZ.	25	4	4-9/16" X 5-5/16"	10	2	4-3/16" X 5"
Patt No	M-1975	M-2103	20	3	4-3/4" X 5-3/8"FULL	7½	1	4-3/4"X 5-3/8"FULL
Mach No	M-6019	M-2103	15	3	4-3/16" X 5"			

Based on Test T- 3851

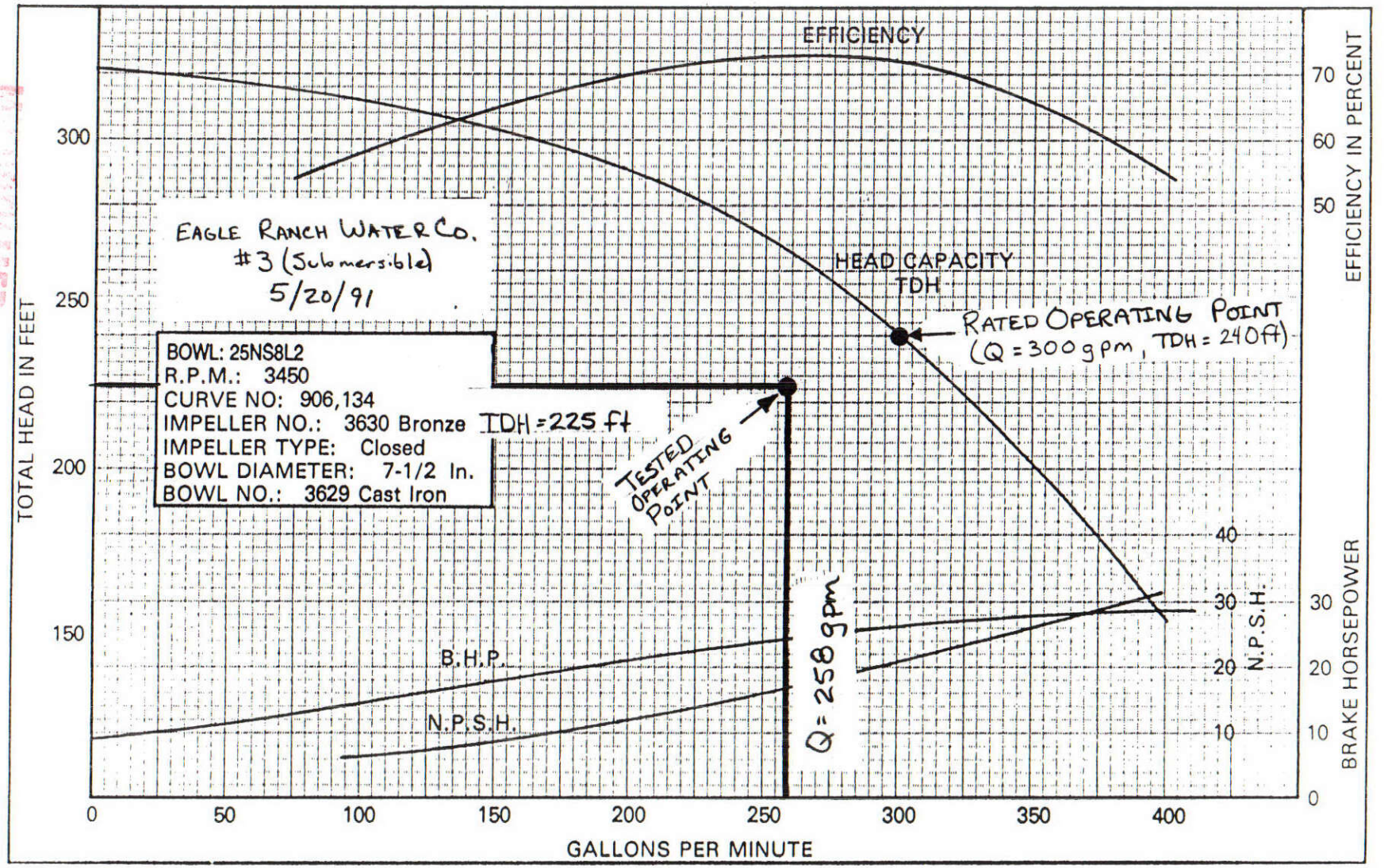
Performance shown for clear fresh water @ 70° F

Submergence shown from bottom of suction case (bracket)

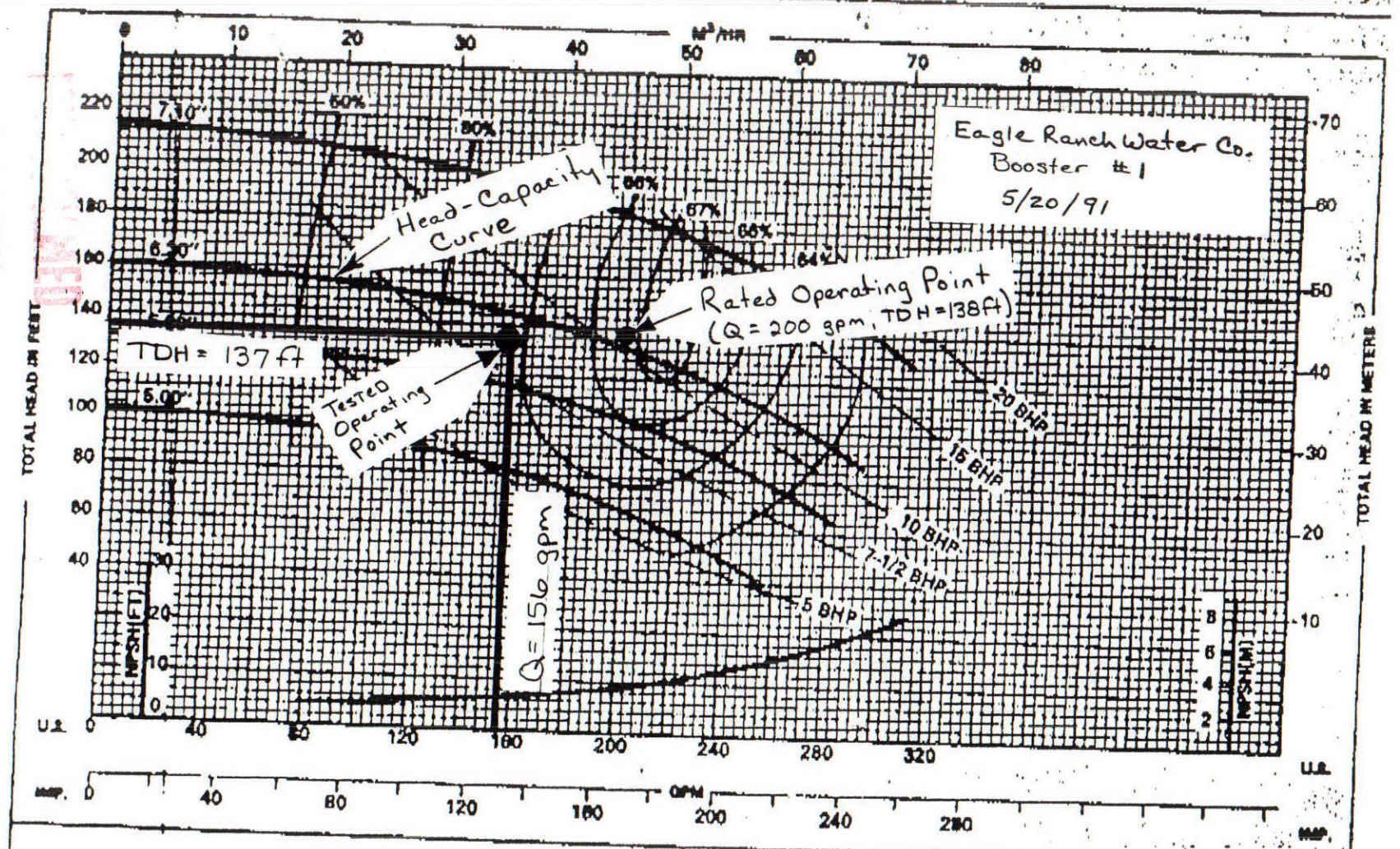
Pump Efficiency ± 2%



C-8926 Issue Date 8/8/84 (Supersedes C-8824 Dated 2/9/83) 3600 NOM R.P.M. MODEL 7S3L


EFFICIENCY
EAGLE RANCH WATER CO.
#3 (Submersible)
5/20/91
BOWL: 25NS8L2
R.P.M.: 3450
CURVE NO: 906,134
IMPELLER NO.: 3630 Bronze
IMPELLER TYPE: Closed
BOWL DIAMETER: 7-1/2 In.
BOWL NO.: 3629 Cast Iron
TDH = 225 ft
HEAD CAPACITY
TDH
RATED OPERATING POINT
(Q = 300 gpm, TDH = 240 ft)
TESTED OPERATING POINT
Q = 258 gpm
B.H.P.
N.P.S.H.
TOTAL HEAD IN FEET
EFFICIENCY IN PERCENT
BRAKE HORSEPOWER
N.P.S.H.
GALLONS PER MINUTE
0
50
100
150
200
250
300
350
400
150
200
250
300
0
10
20
30
40
0
10
20
30
50
60
70

MODEL 2570-5



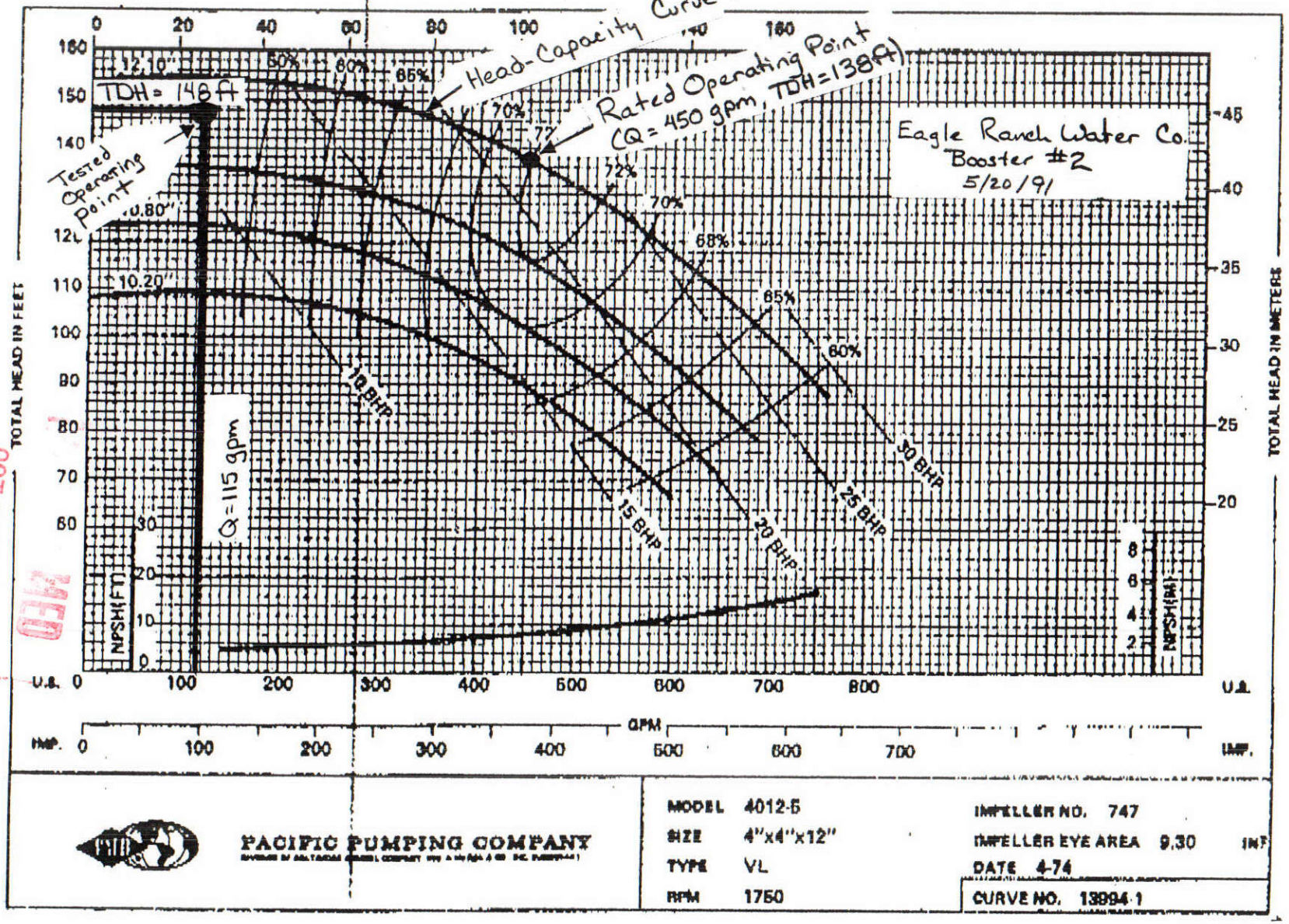
PACIFIC PUMPING COMPANY

MODEL	2570-5
SIZE	2-1/2"x2-1/2"x7"
TYPE	VL
RPM	3500

IMPELLER NO. 550
IMPELLER EYE AREA 4.45 IN²
DATE 4-74
CURVE NO. 13930-1

OCT 01 1991

MODEL 4012-5



OCT 01 1991

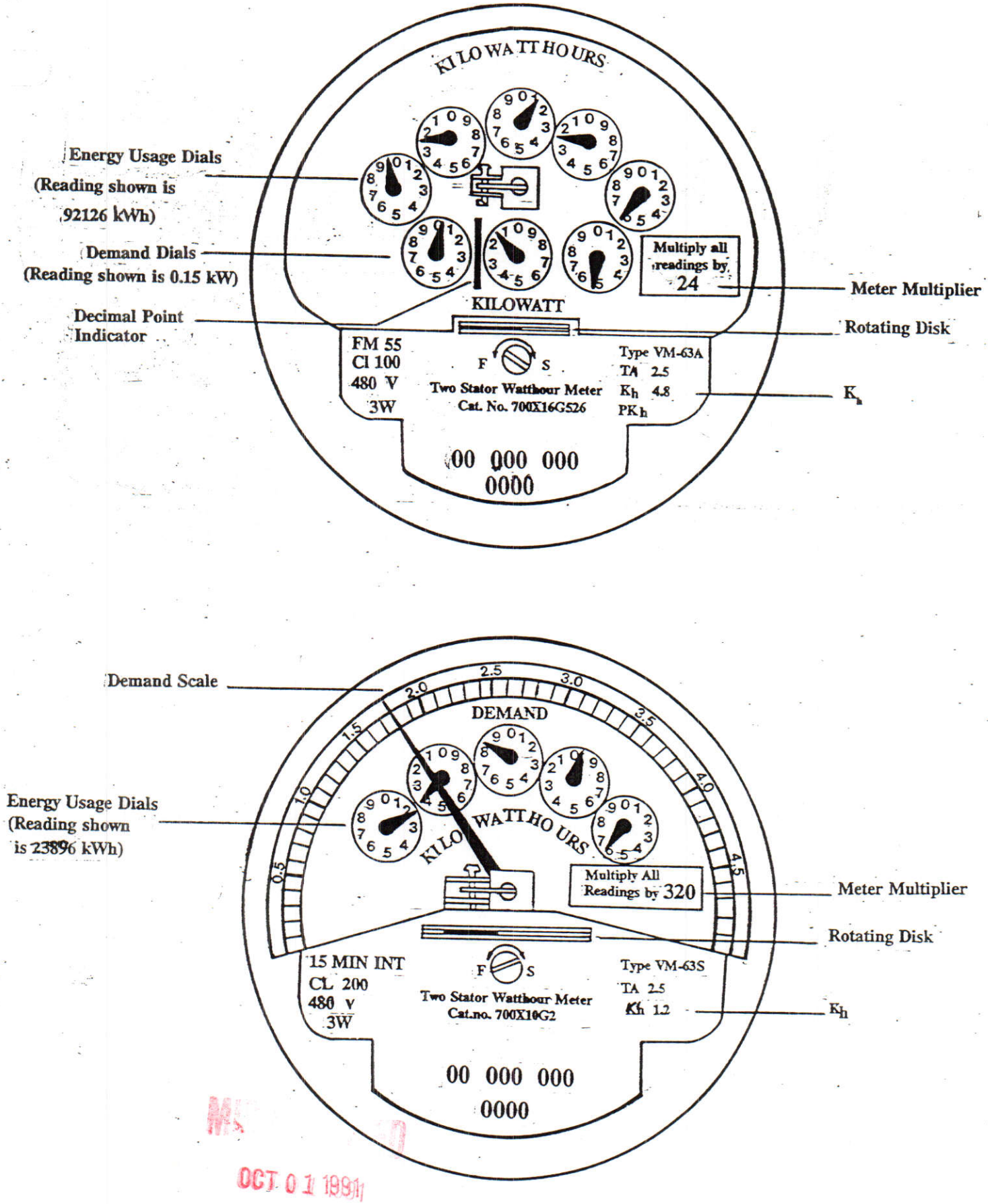
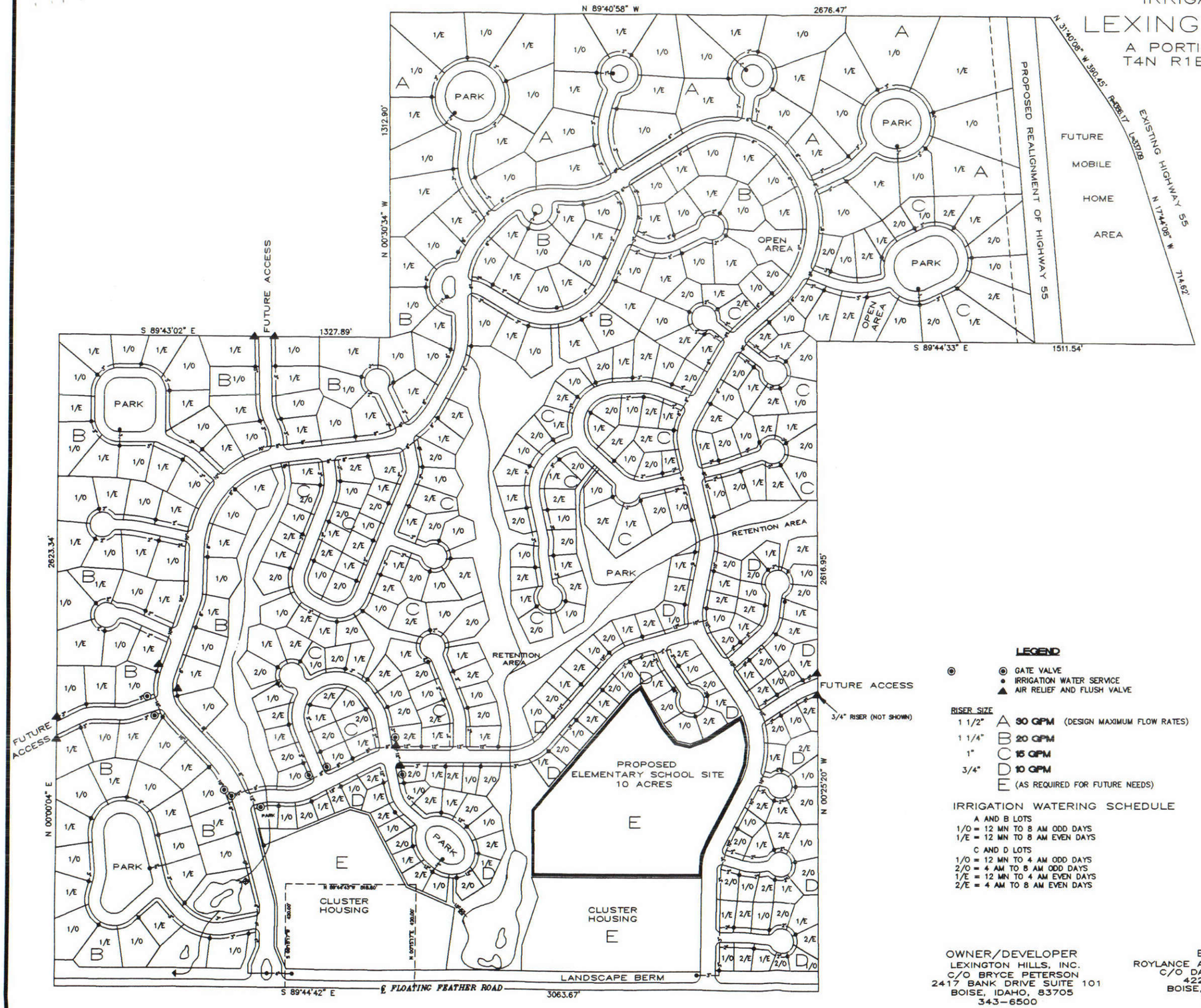


Figure 1. Two common types of electric utility demand meters

IRRIGATION PLAN
LEXINGTON HILLS
A PORTION OF SECTION 3
T4N R1E BM ADA COUNTY
IDAHO



LEGEND

- GATE VALVE
- IRRIGATION WATER SERVICE
- AIR RELIEF AND FLUSH VALVE

RISER SIZE		
1 1/2"	A	30 GPM (DESIGN MAXIMUM FLOW RATES)
1 1/4"	B	20 GPM
1"	C	15 GPM
3/4"	D	10 GPM
	E	(AS REQUIRED FOR FUTURE NEEDS)

N

150 75 0 150 300 450
SCALE IN FEET

IRRIGATION WATERING SCHEDULE

A AND B LOTS
1/O = 12 MN TO 8 AM ODD DAYS
1/E = 12 MN TO 8 AM EVEN DAYS

C AND D LOTS
1/O = 12 MN TO 4 AM ODD DAYS
2/O = 4 AM TO 8 AM ODD DAYS
1/E = 12 MN TO 4 AM EVEN DAYS
2/E = 4 AM TO 8 AM EVEN DAYS

RECORDED
NOV 0 8 1995

OWNER/DEVELOPER
LEXINGTON HILLS, INC.
C/O BRYCE PETERSON
2417 BANK DRIVE SUITE 101
BOISE, IDAHO, 83705
343-6500

ENGINEER
ROYLANCE AND ASSOCIATES PA
C/O DAVE ROYLANCE
4227 EMERALD
BOISE, IDAHO 83706
336-7390

\PROJECTS\CHERRY\IRRIGPLN.DWG

DATE 11/20/95
SCALE HORZ N/A
DRAWN BY LVL
SCALE VERT 1"=100'
DESIGNED BY DMR
CHECKED BY DMR

LEXINGTON HILLS
IRRIGATION PLAN

ROYLANCE AND ASSOCIATES PA
Engineers Surveyors Landplanners
4619 Emerald Suite D-2 Boise Idaho 83706 (208) 336-7390

NO	REVISIONS	BY	DATE

JOB NUMBER 9110-1156

1 OF 1

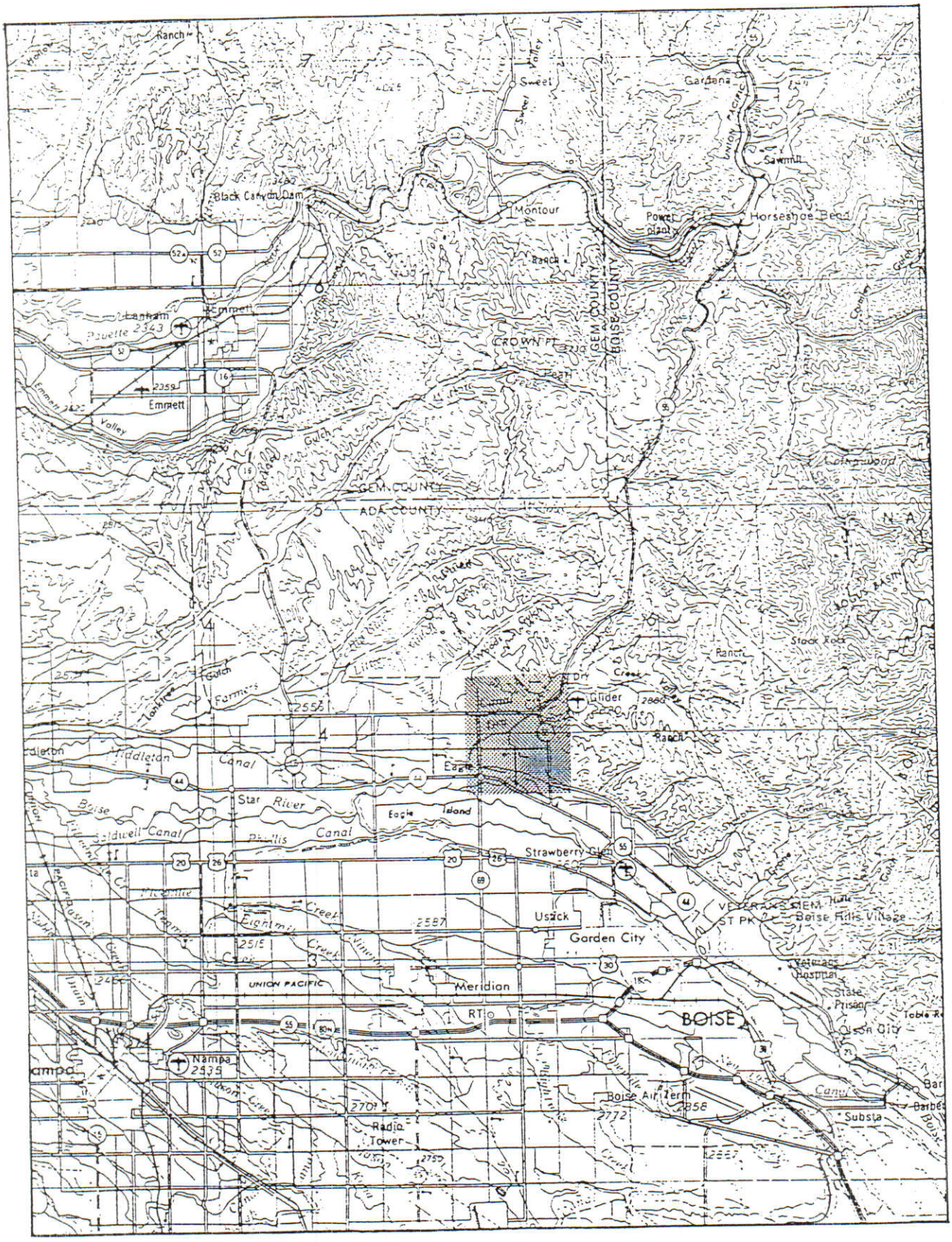


Figure 1. Location of study area

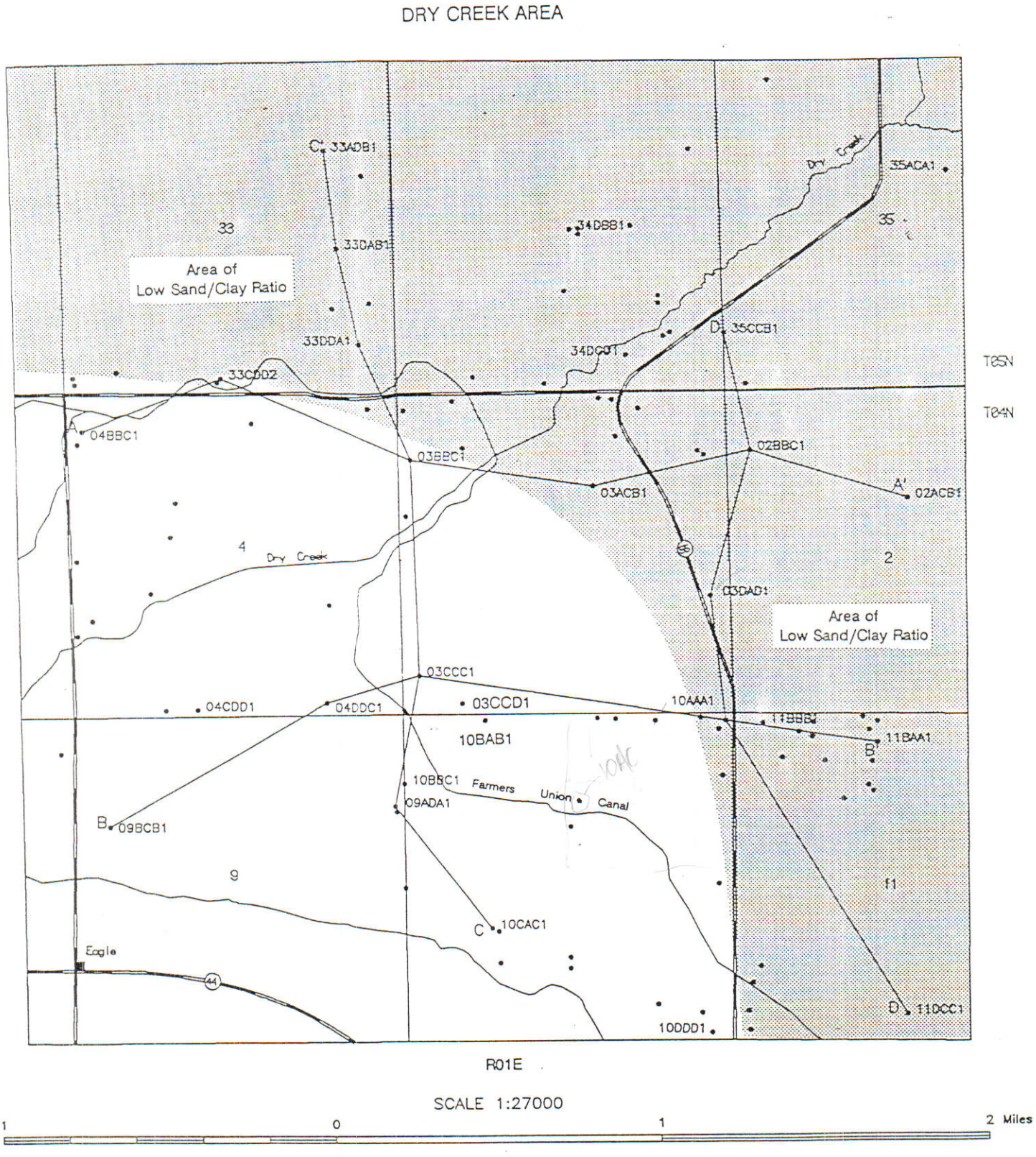


Figure 2. MAP SHOWING LOCATIONS OF INVENTORIED WELLS AND GEOLOGIC CROSS SECTIONS

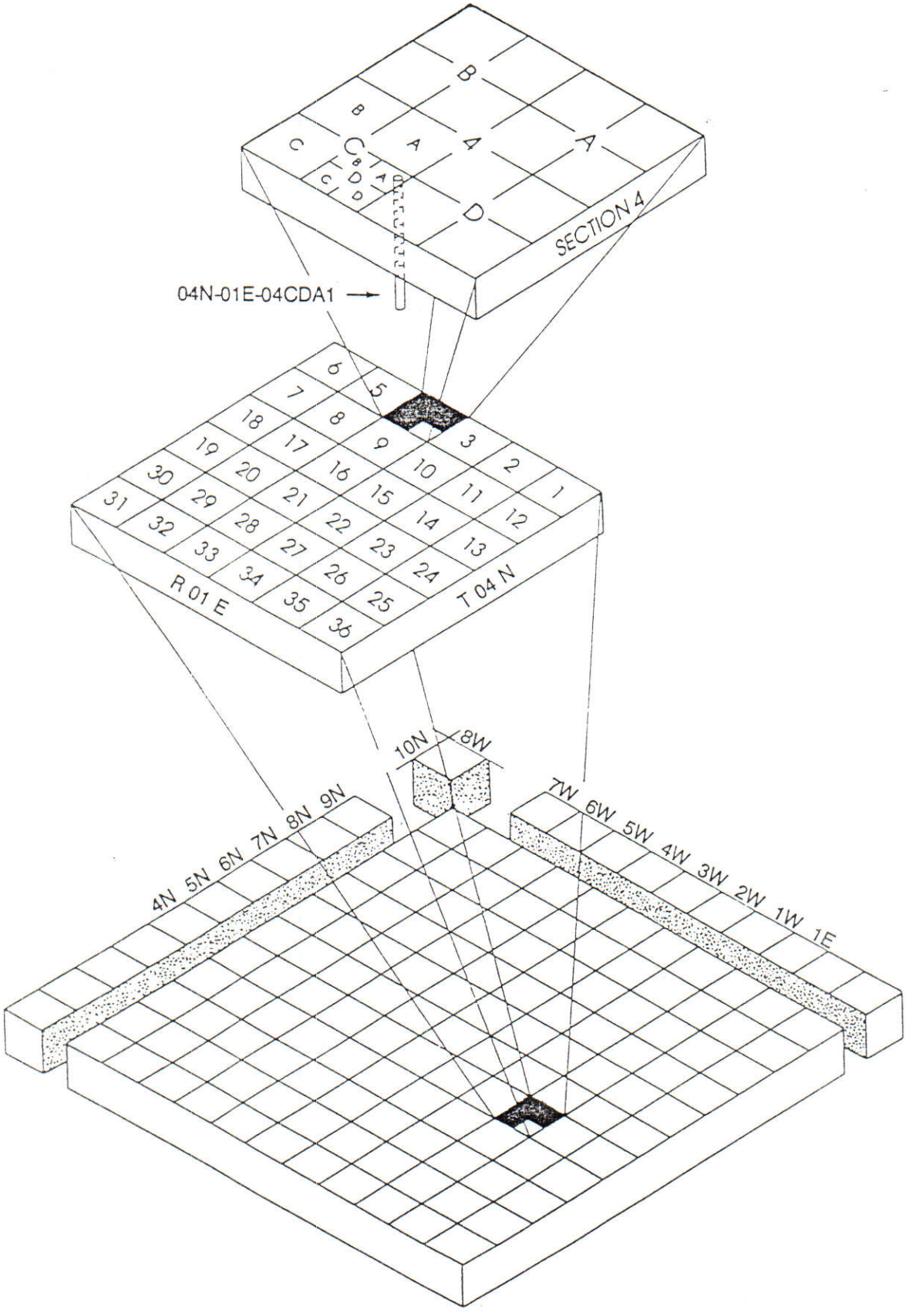


Figure 3. Well-numbering system

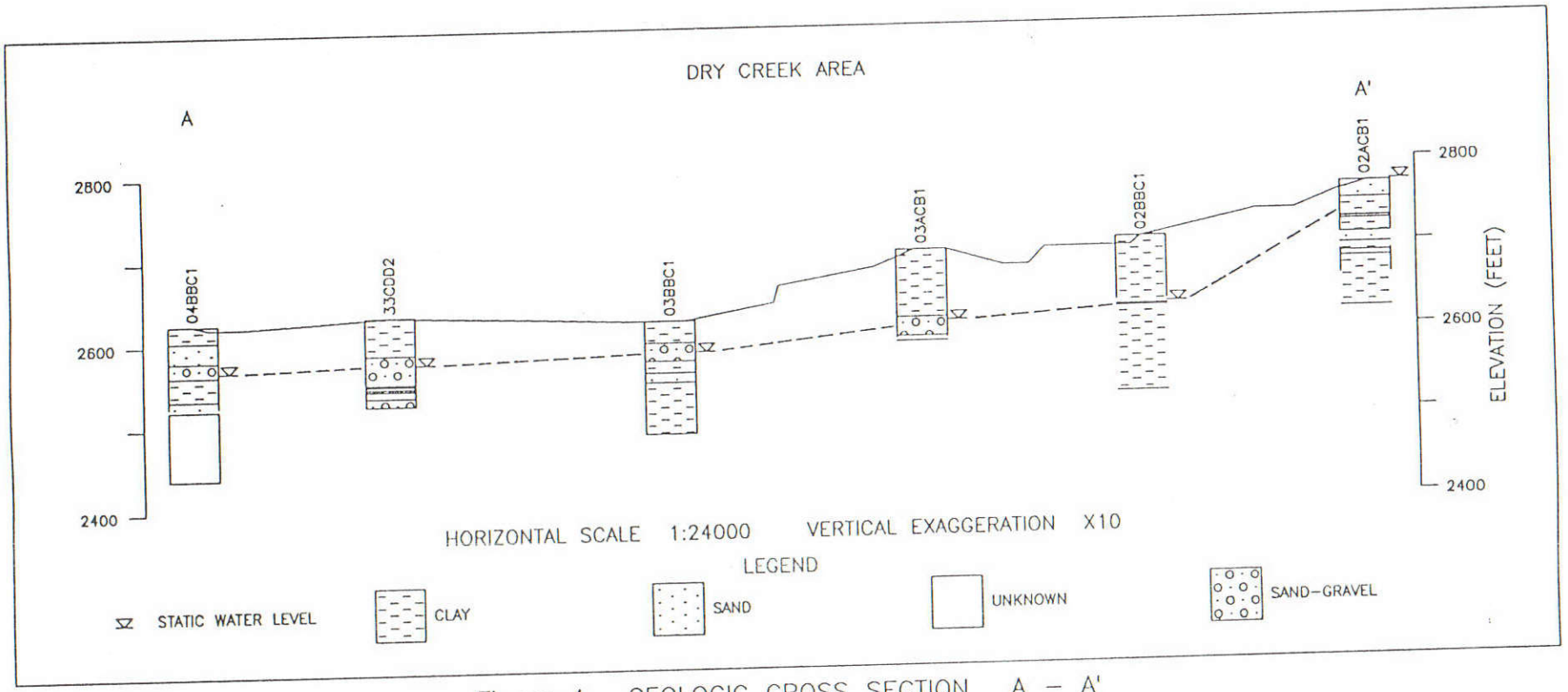


Figure 4. GEOLOGIC CROSS SECTION A – A'

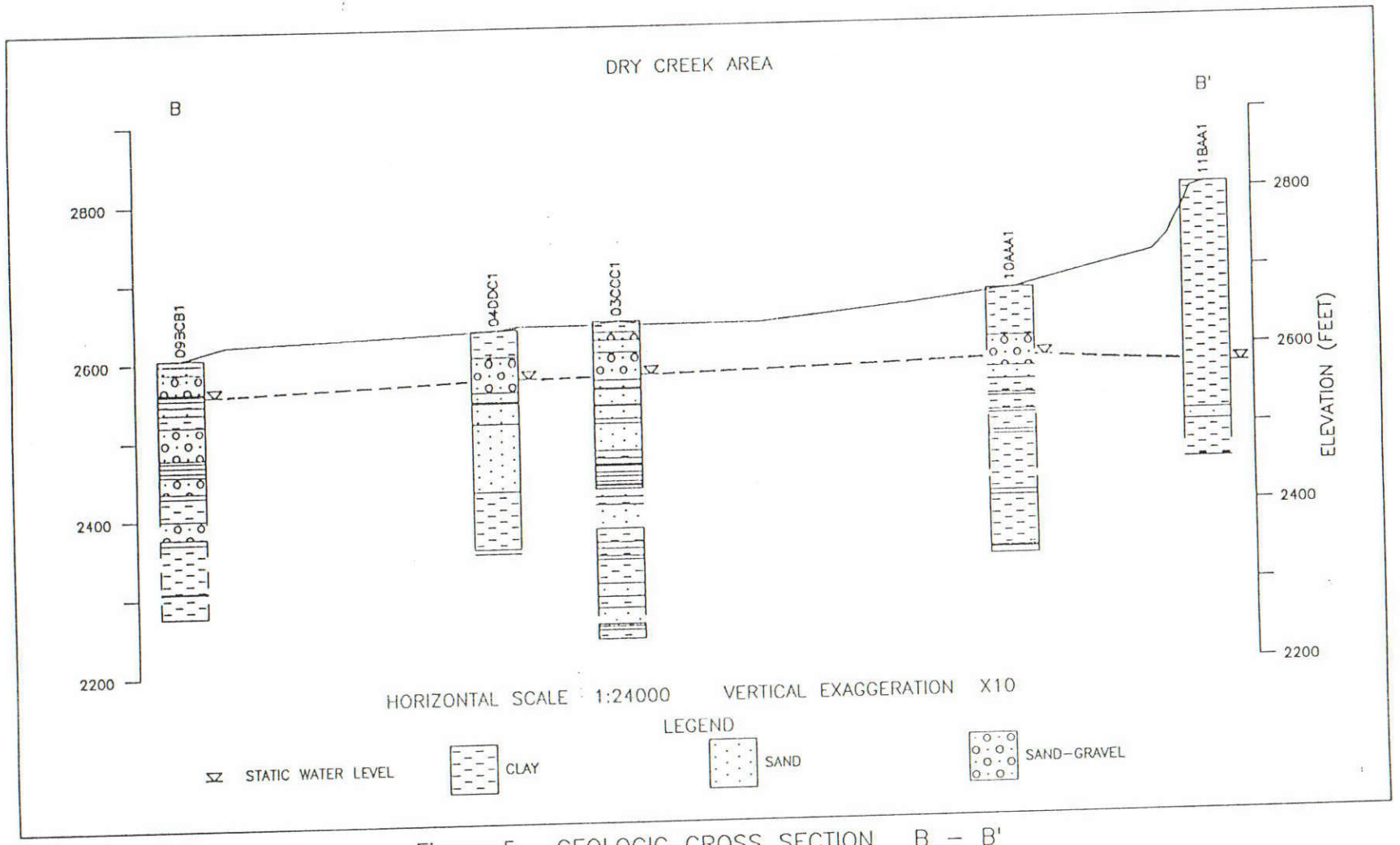


Figure 5. GEOLOGIC CROSS SECTION B – B'

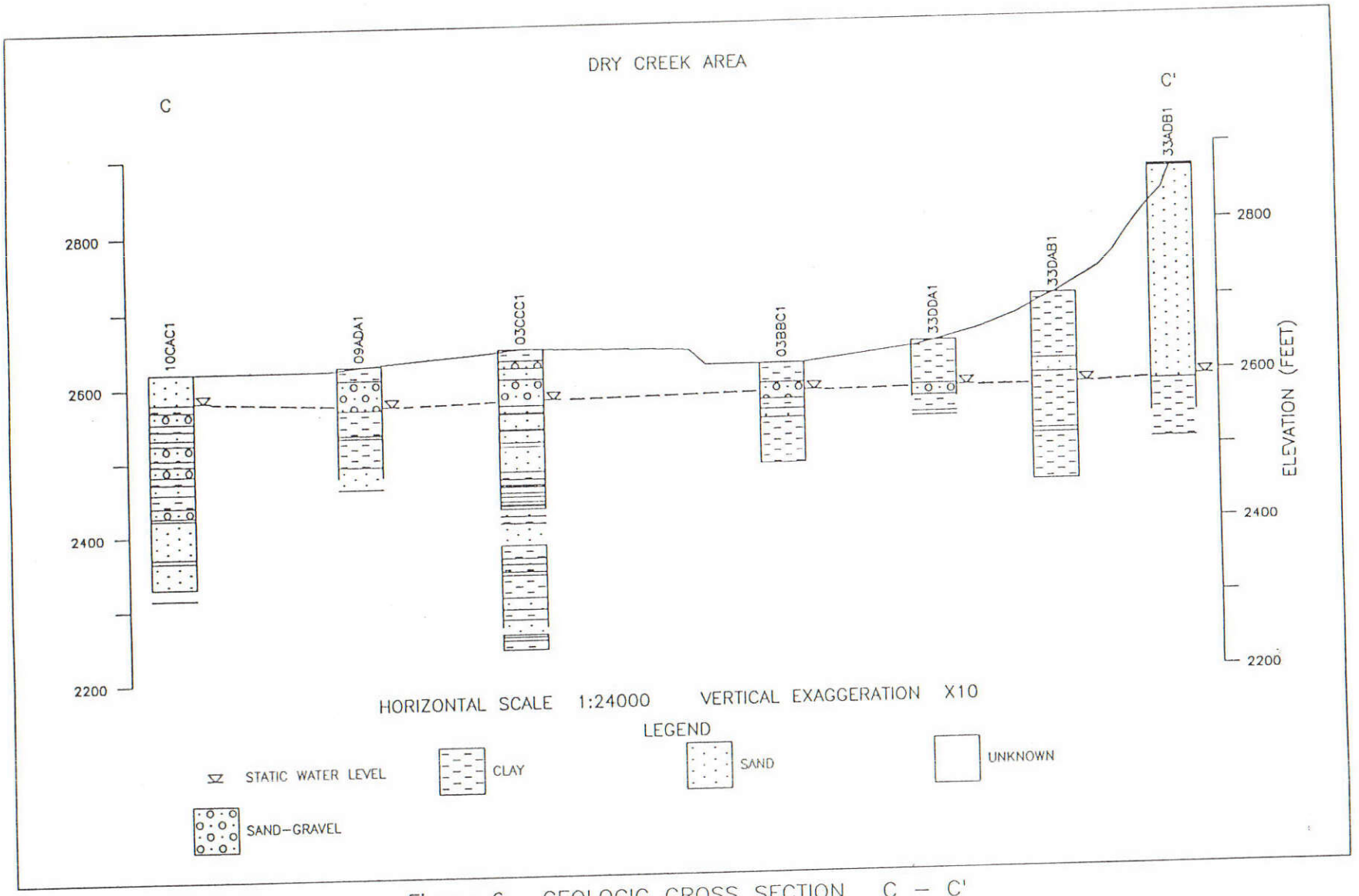


Figure 6. GEOLOGIC CROSS SECTION C – C'

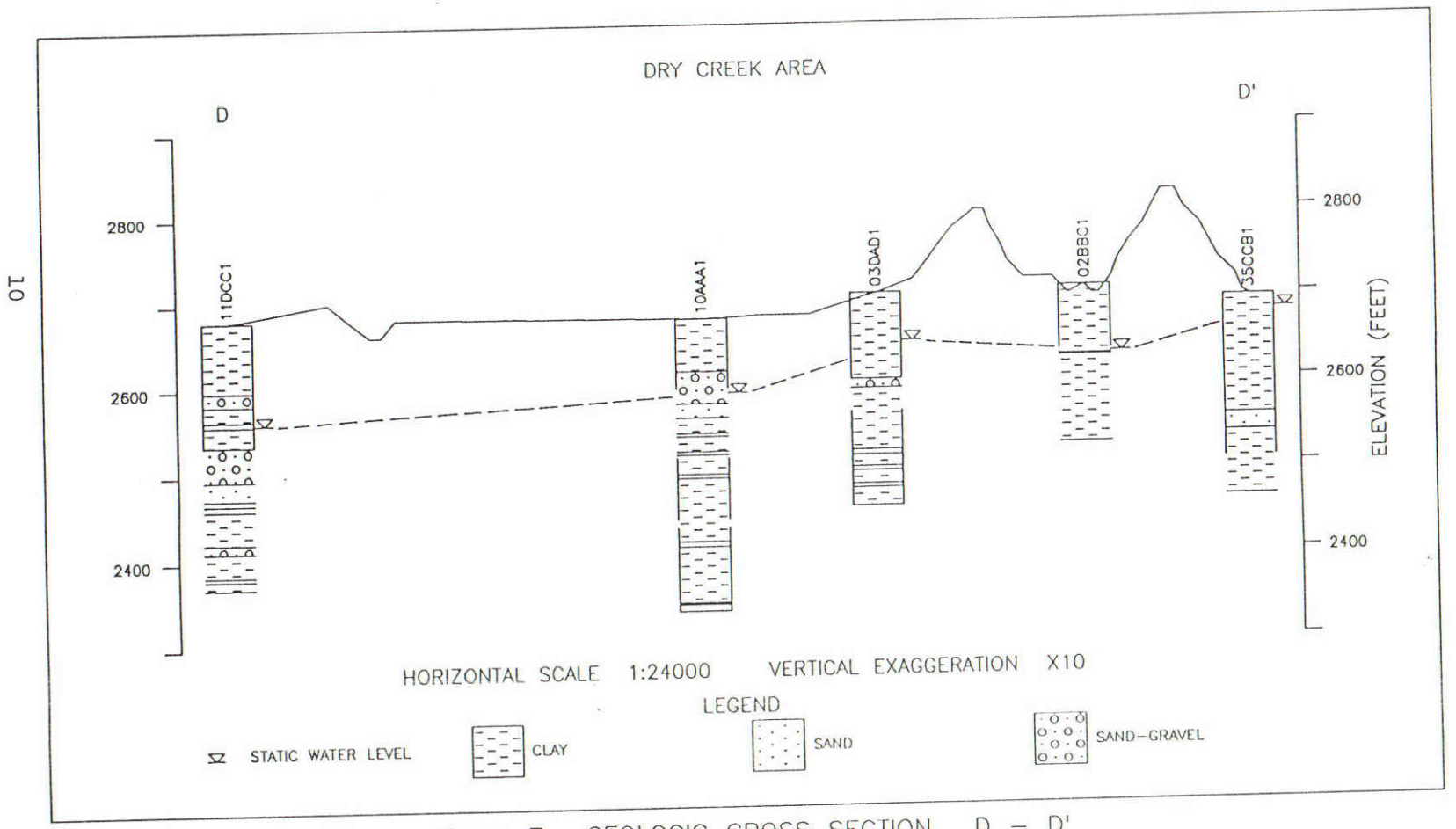


Figure 7. GEOLOGIC CROSS SECTION D – D'

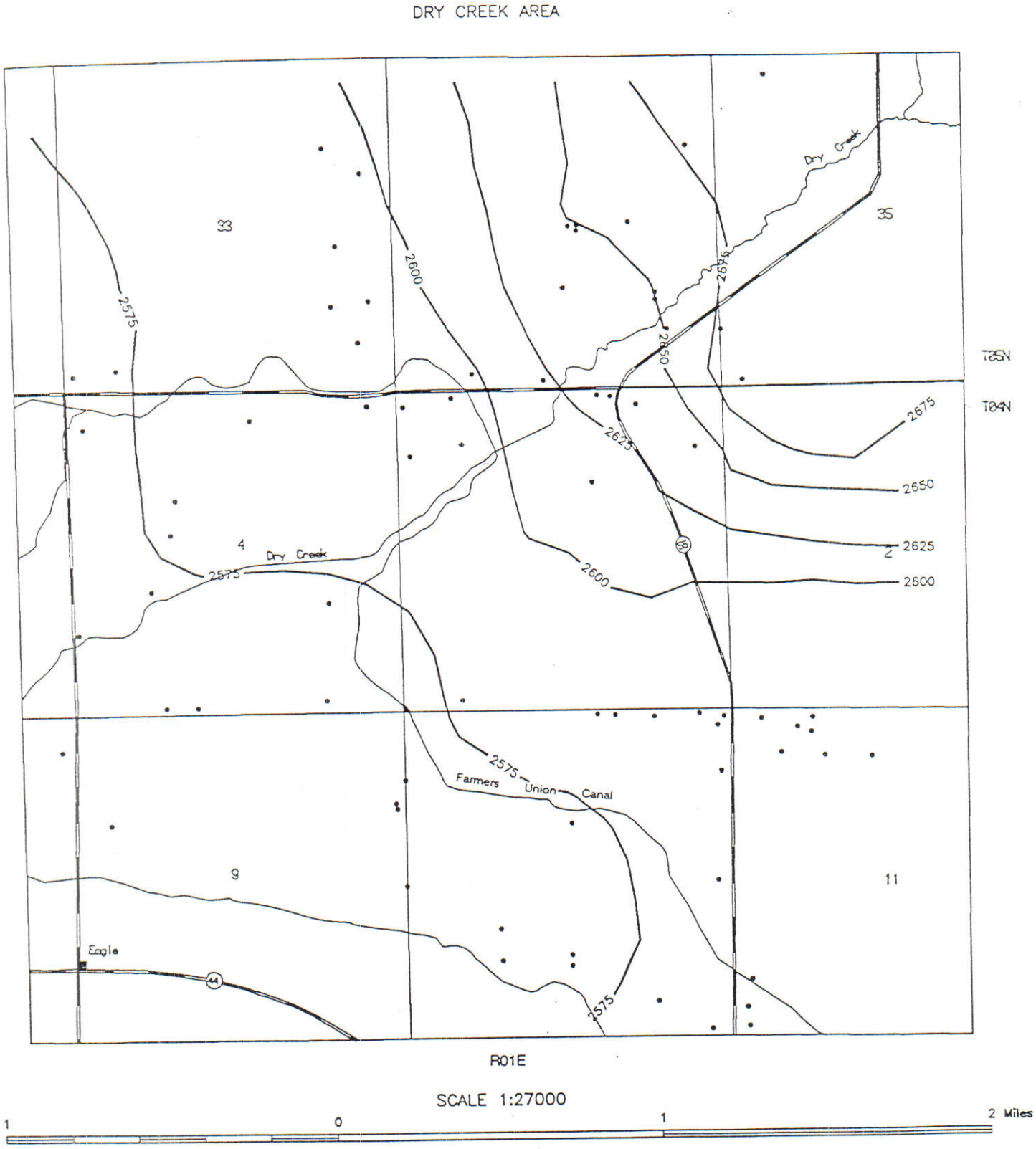


Figure 8. GENERALIZED POTENTIOMETRIC SURFACE MAP, SPRING 1989

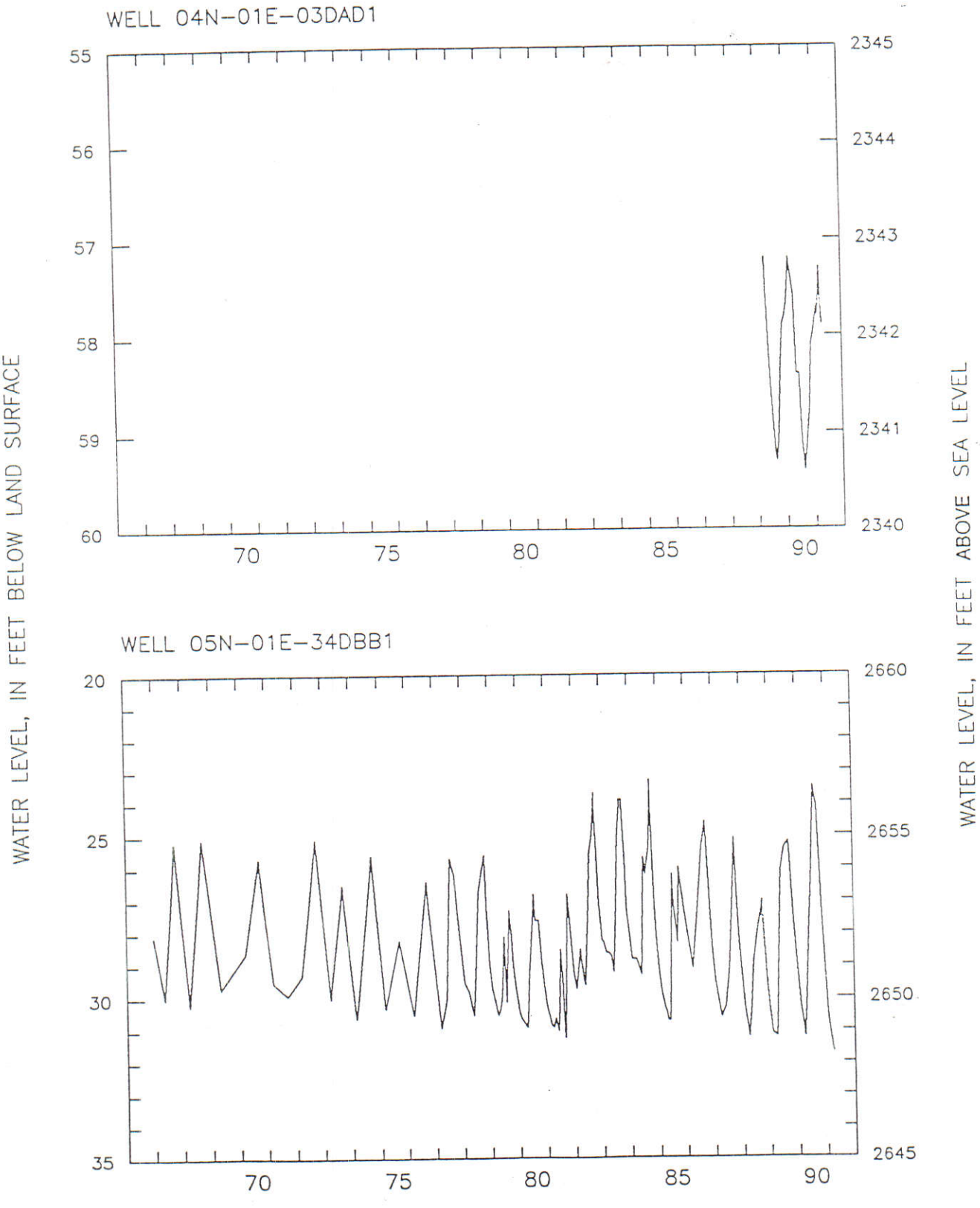


Figure 9. HYDROGRAPHS OF WELLS 04N-01E-03DAD1 AND 05N-01E-34DBB1

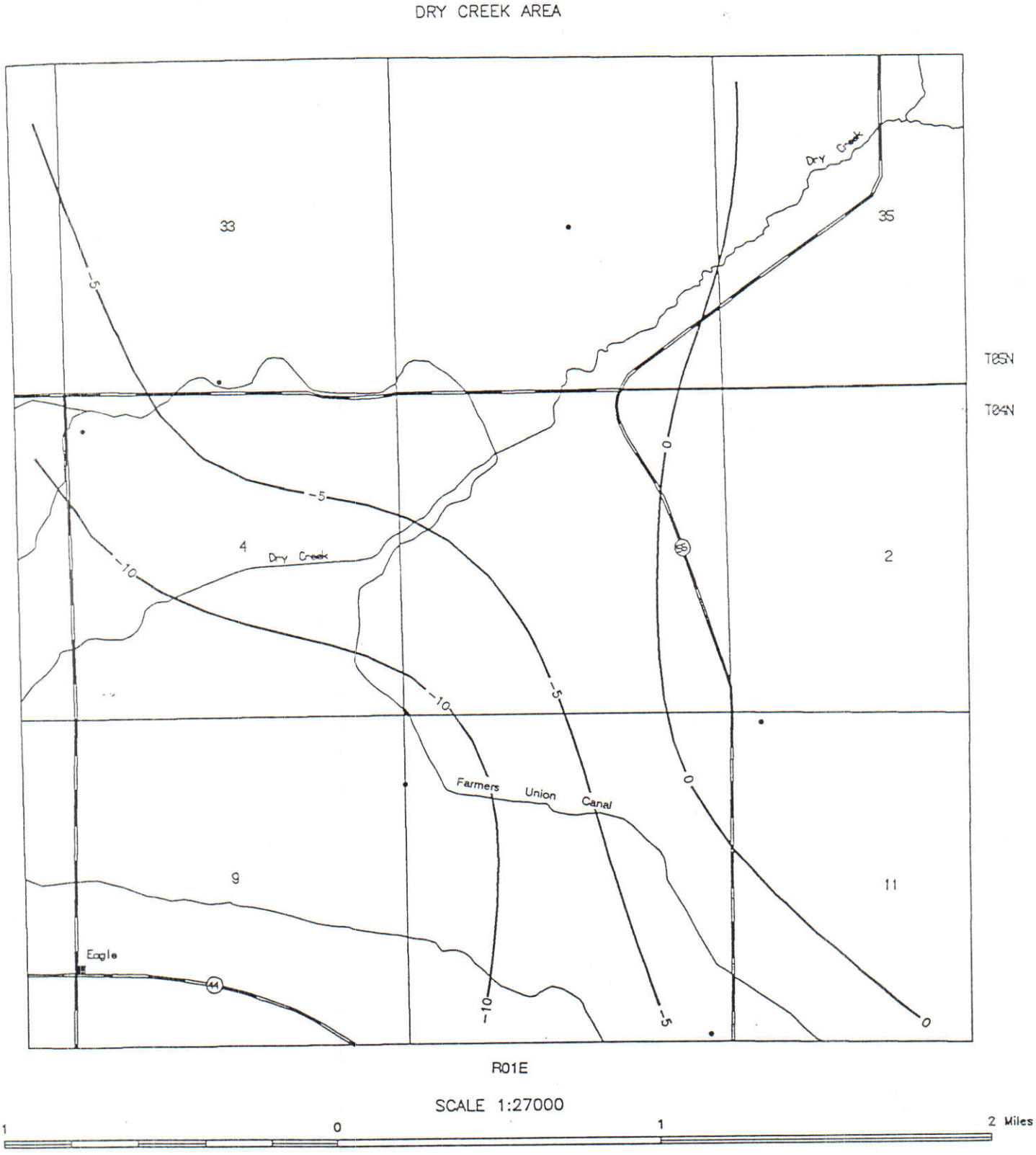


Figure 10. GENERALIZED WATER-LEVEL CHANGE MAP, FALL 1970-89

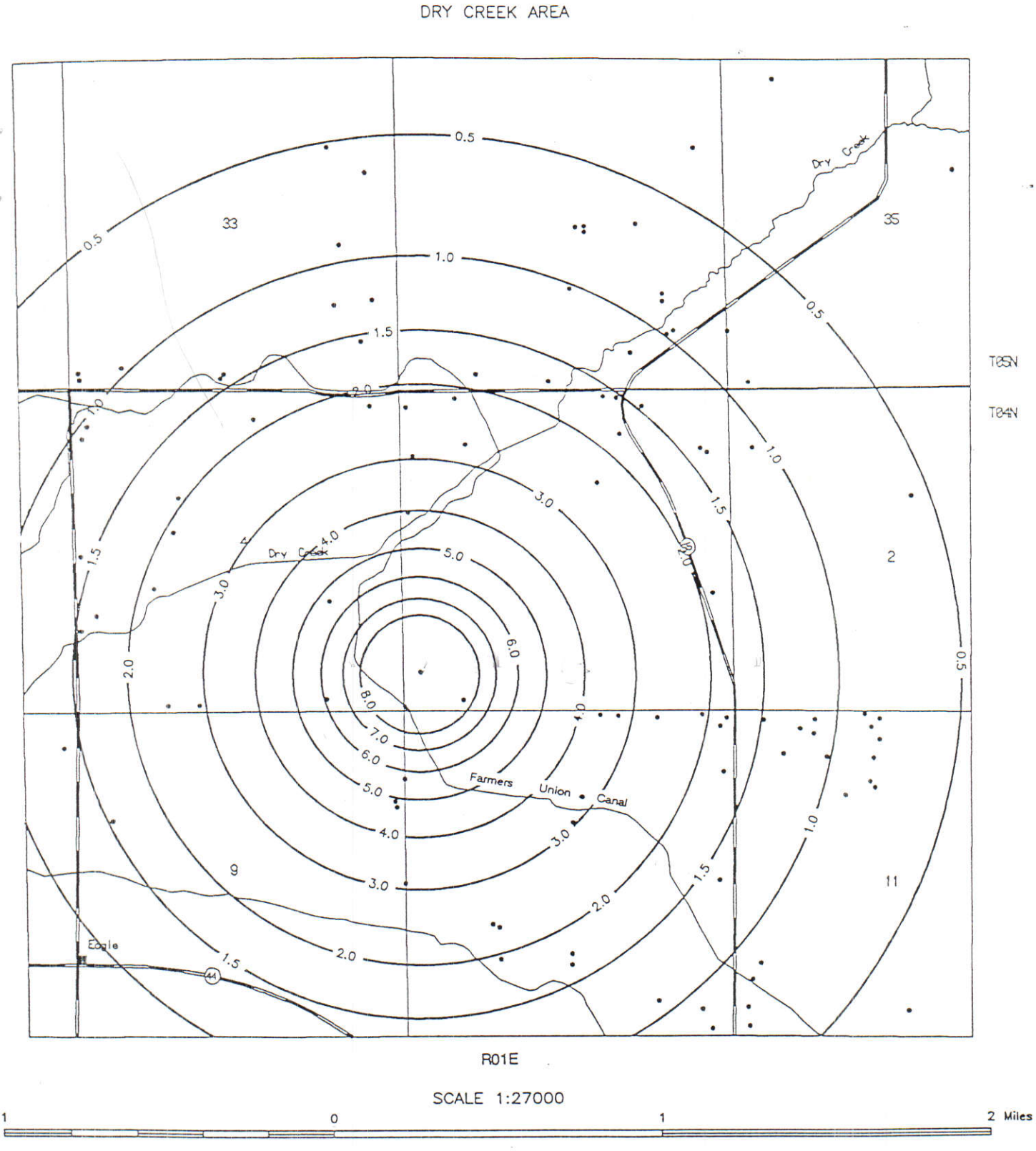


Figure 11. MAP SHOWING ESTIMATED DRAWDOWN FROM PUMPING WELL 04N-01E-03CCC1 AT 1000 GPM FOR 6 MONTHS

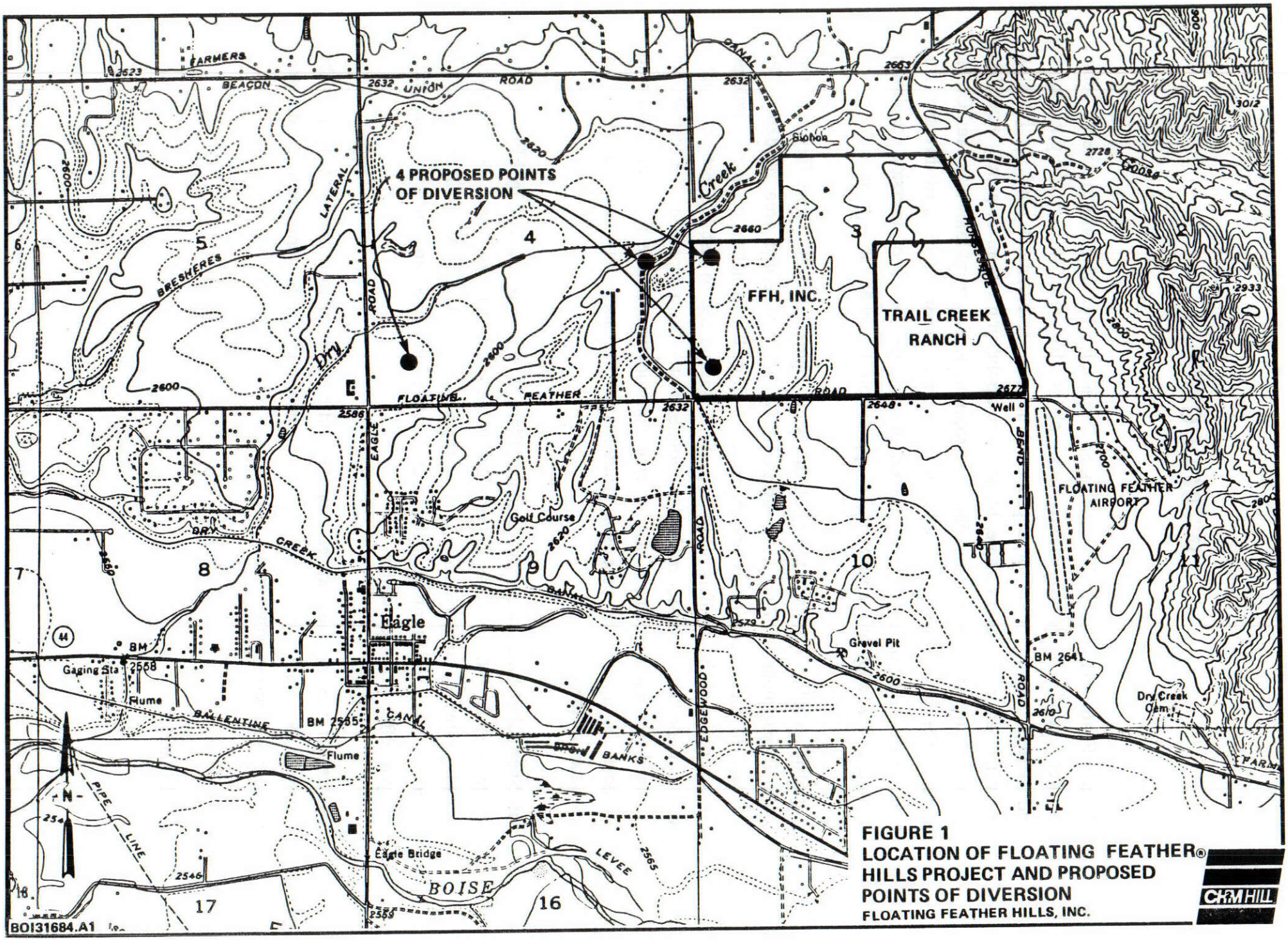


FIGURE 1
LOCATION OF FLOATING FEATHER® HILLS PROJECT AND PROPOSED POINTS OF DIVERSION
FLOATING FEATHER HILLS, INC.

CH2MHILL

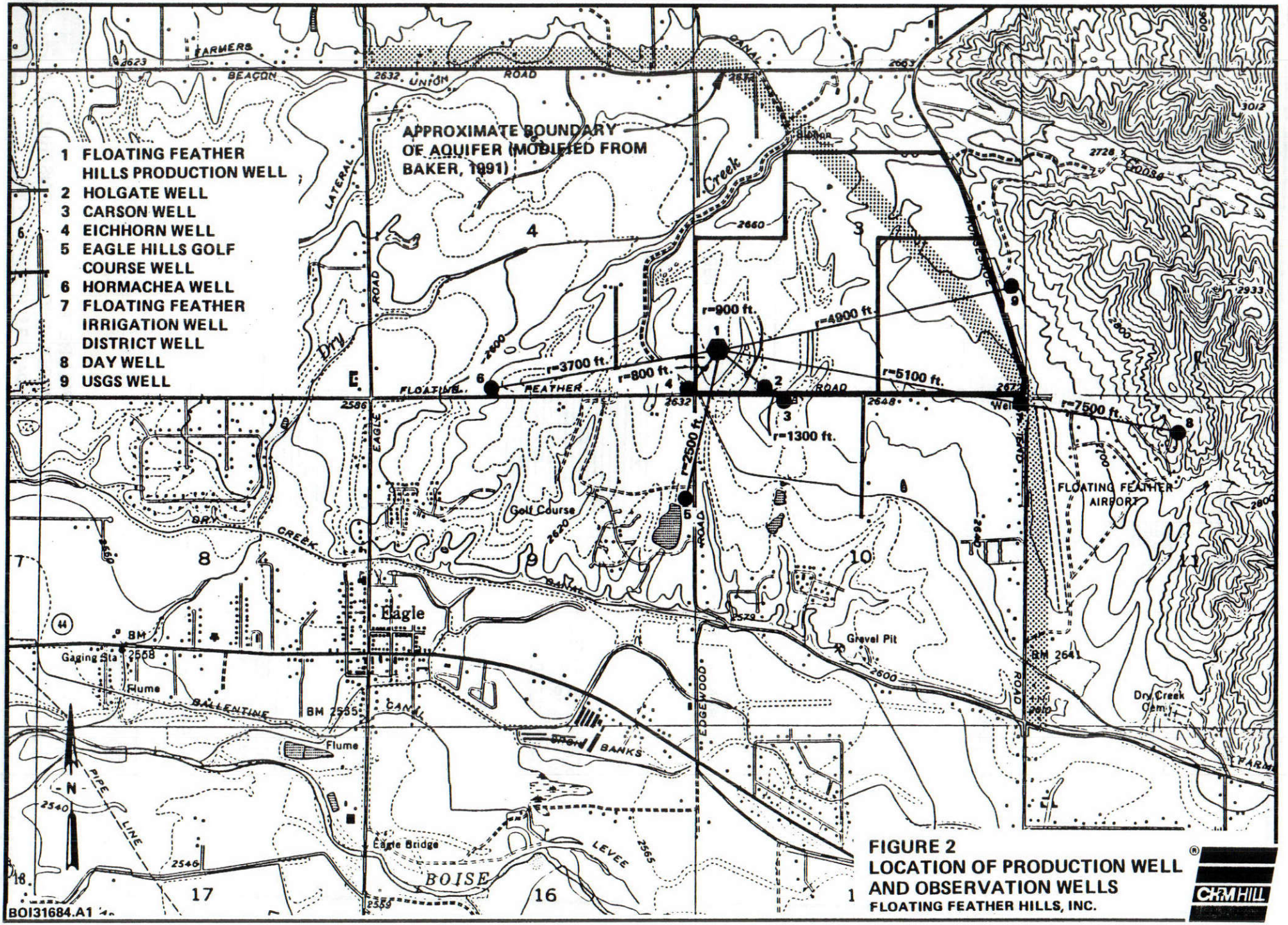
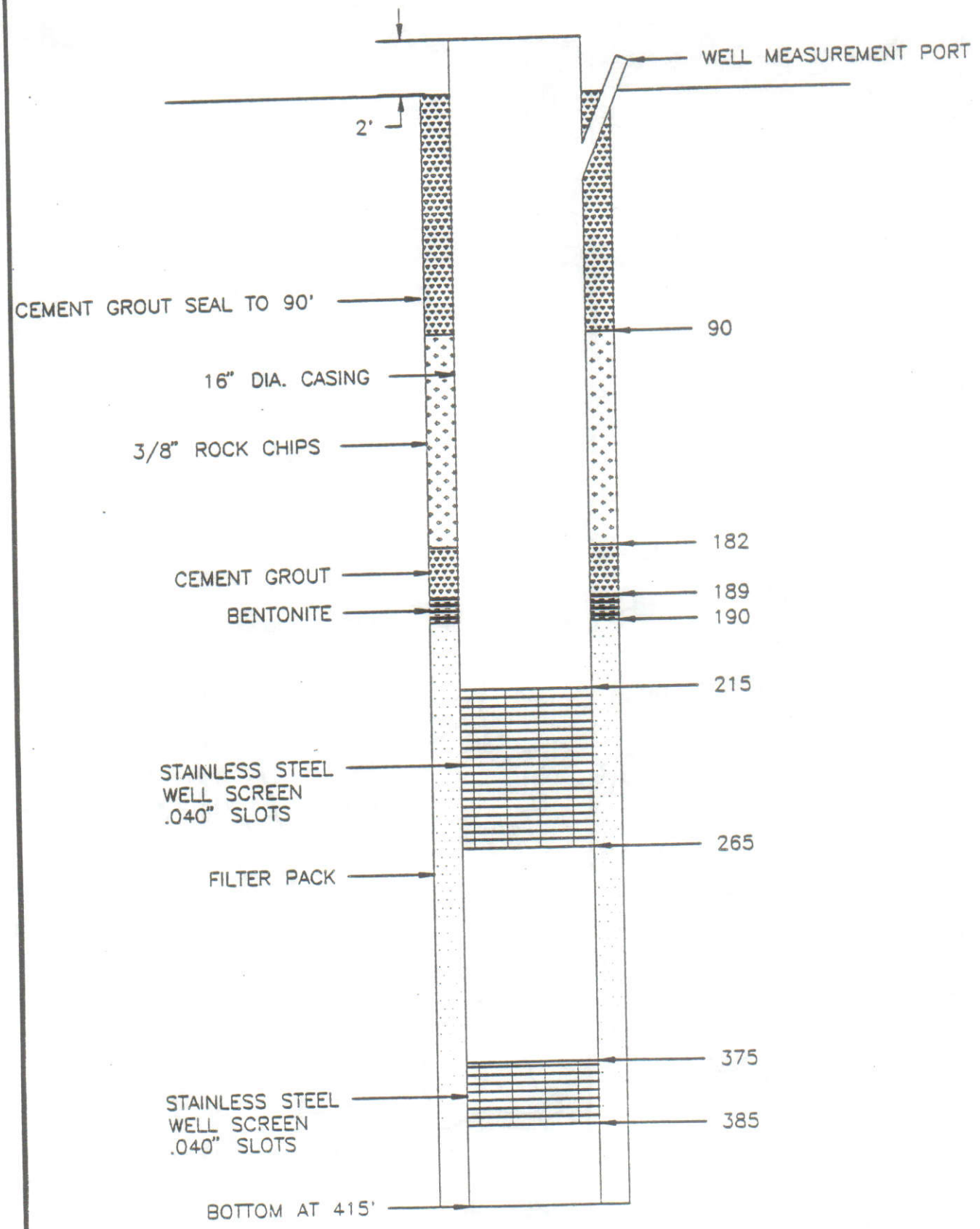


FIGURE 2
LOCATION OF PRODUCTION WELL AND OBSERVATION WELLS
FLOATING FEATHER HILLS, INC.

BOI31684.A1

CH2MHILL



CHAPMAN CONSULTING

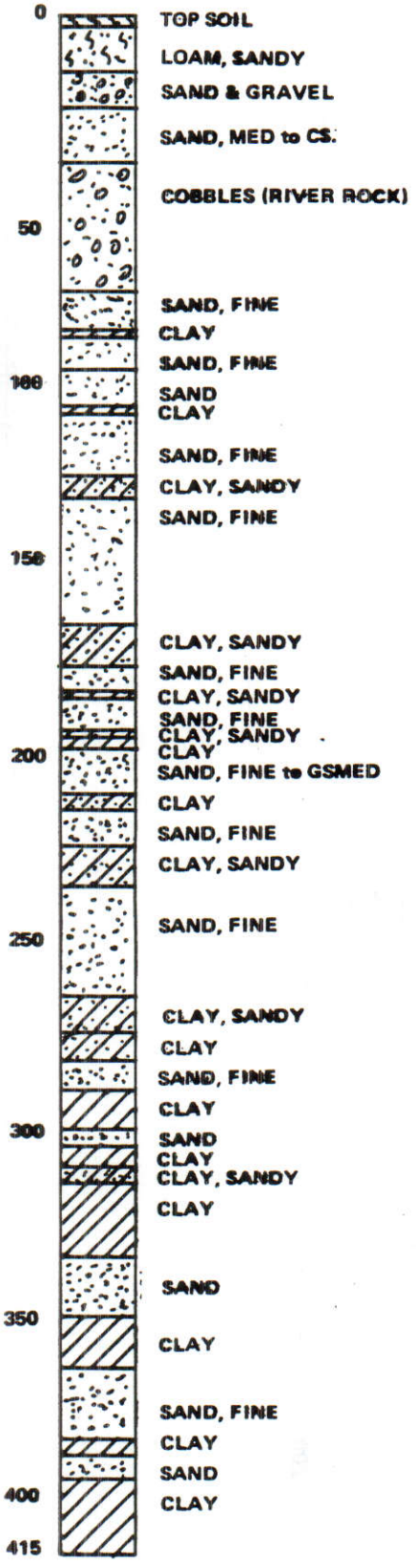
BOISE, IDAHO

FIGURE 3
PRODUCTION WELL CONSTRUCTION
FLOATING FEATHER HILLS, INC.

CH2M HILL

BOI31684 A1

GENERAL GEOLOGIC LOG



GEOPHYSICAL LOGS

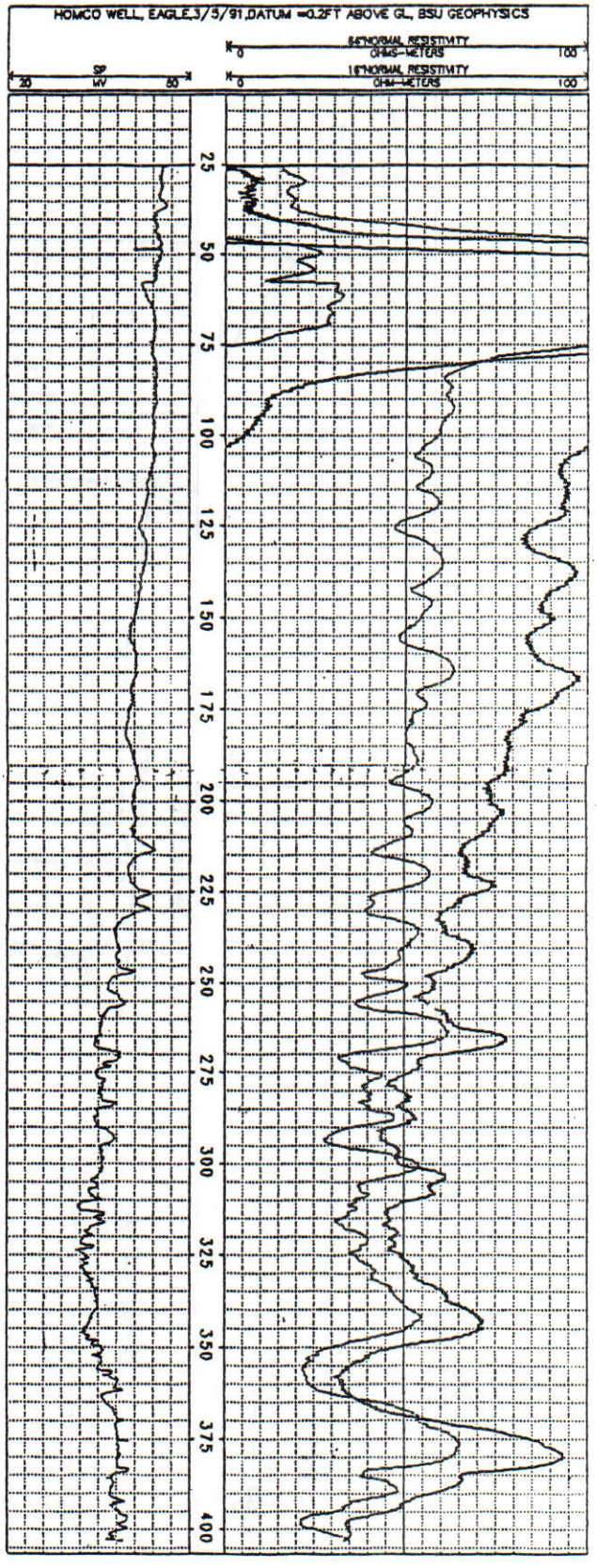


FIGURE 4
GEOLOGIC AND GEOPHYSICAL LOGS FOR THE PRODUCTION WELL
FLOATING FEATHER HILLS, INC.

BOI31684.A1

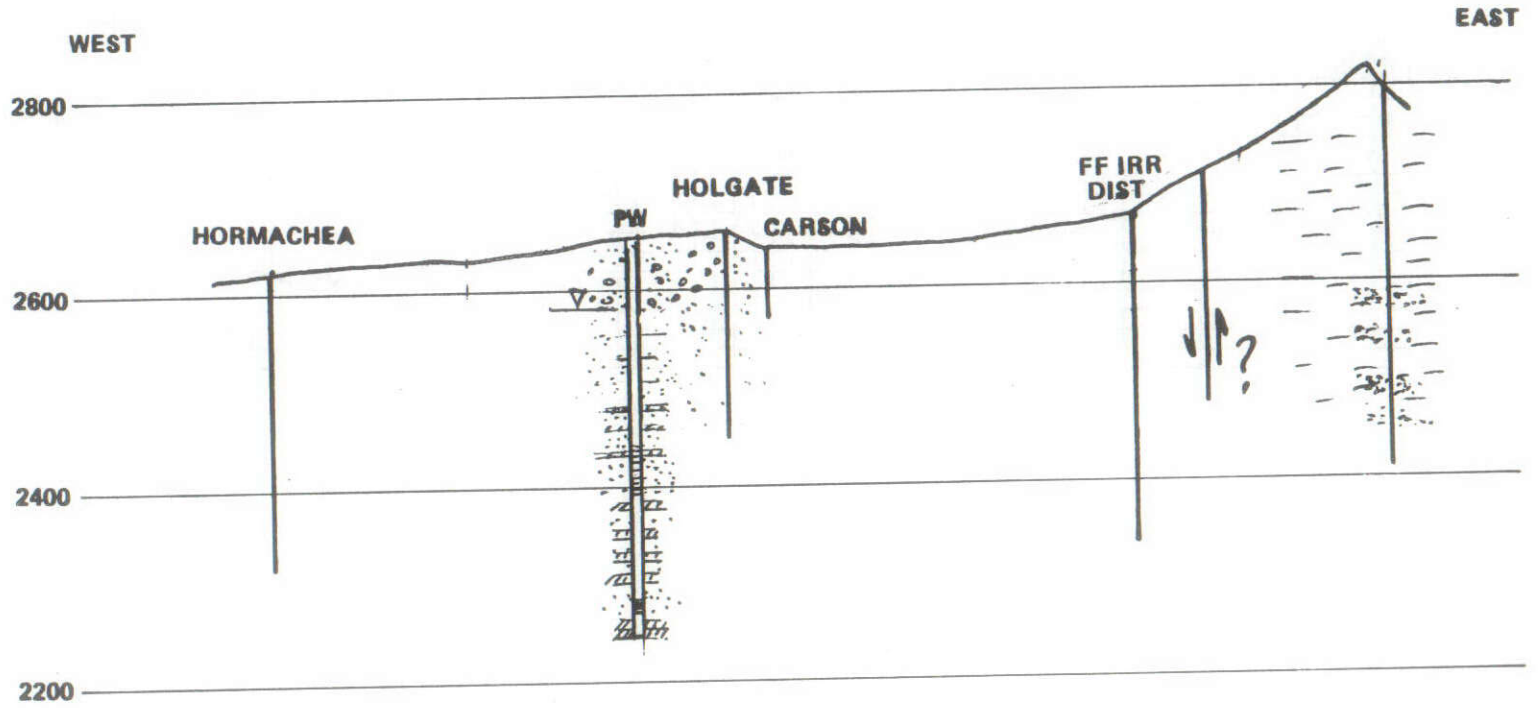


FIGURE 5
EAST-WEST CROSS SECTION
SHOWING PRODUCTION AND
OBSERVATION WELLS
FLOATING FEATHER HILLS, INC.

BOI31684 A1 APPROX. SCALE. 1" = 2000'

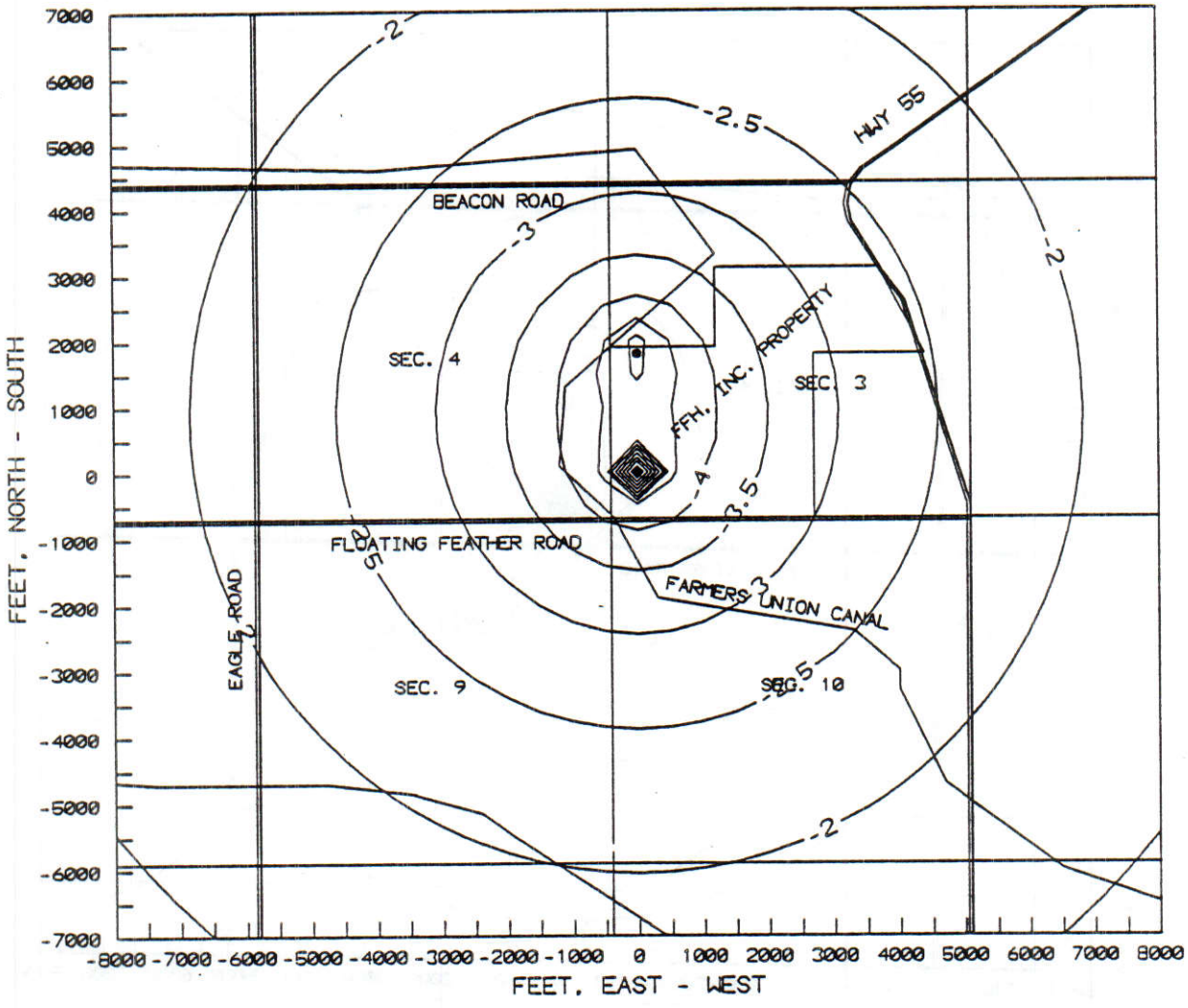


FIGURE 31
DRAWDOWN SIMULATION
T=174 K, Q=1000 gpm, t=1YEAR
FLOATING FEATHER HILLS, INC.

BOI31684 A1

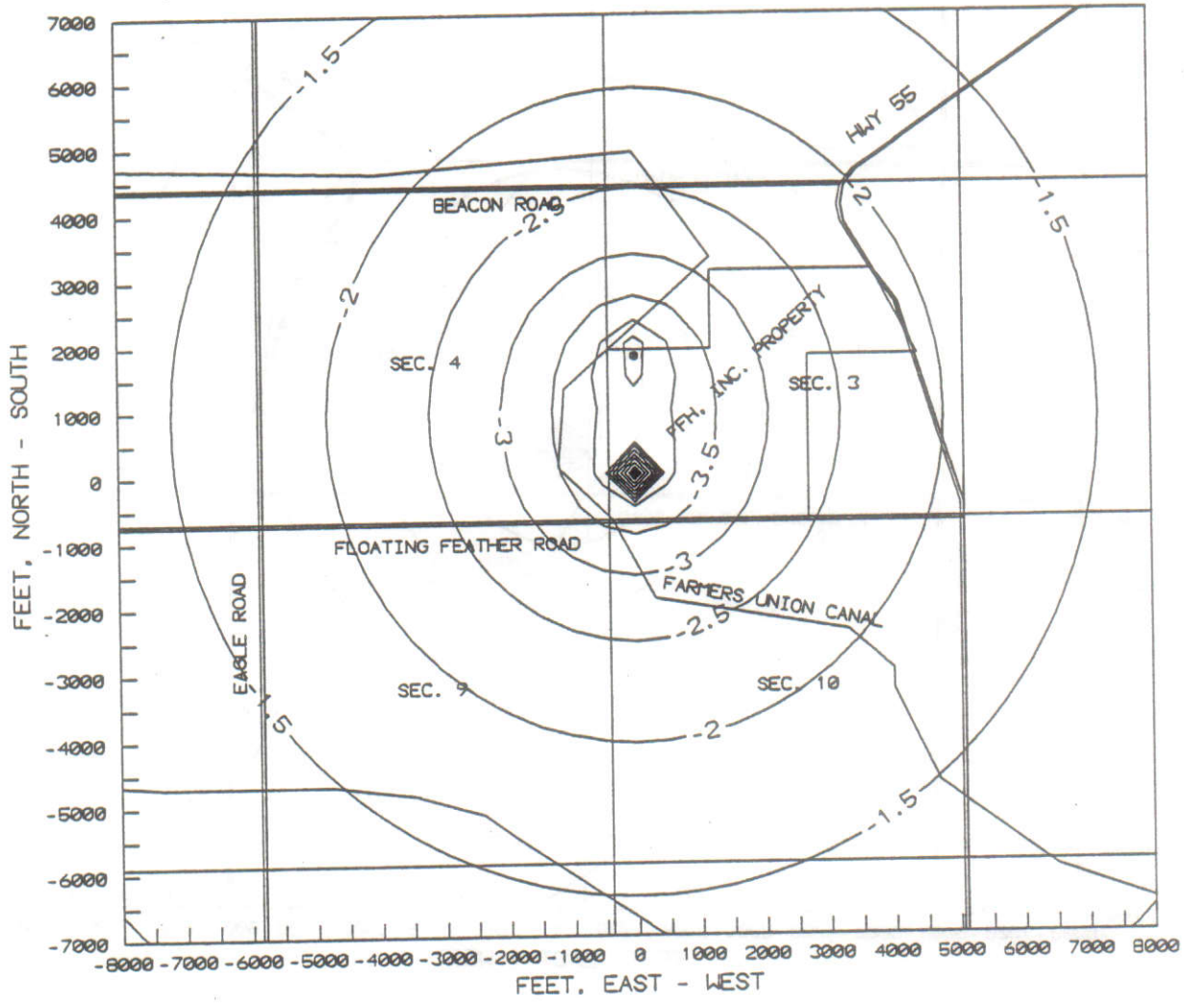


FIGURE 30
DRAWDOWN SIMULATION
T=174K, Q=1000gpm, t=6 MONTHS
FLOATING FEATHER HILLS, INC.

CH2M HILL

BOI31684 A1

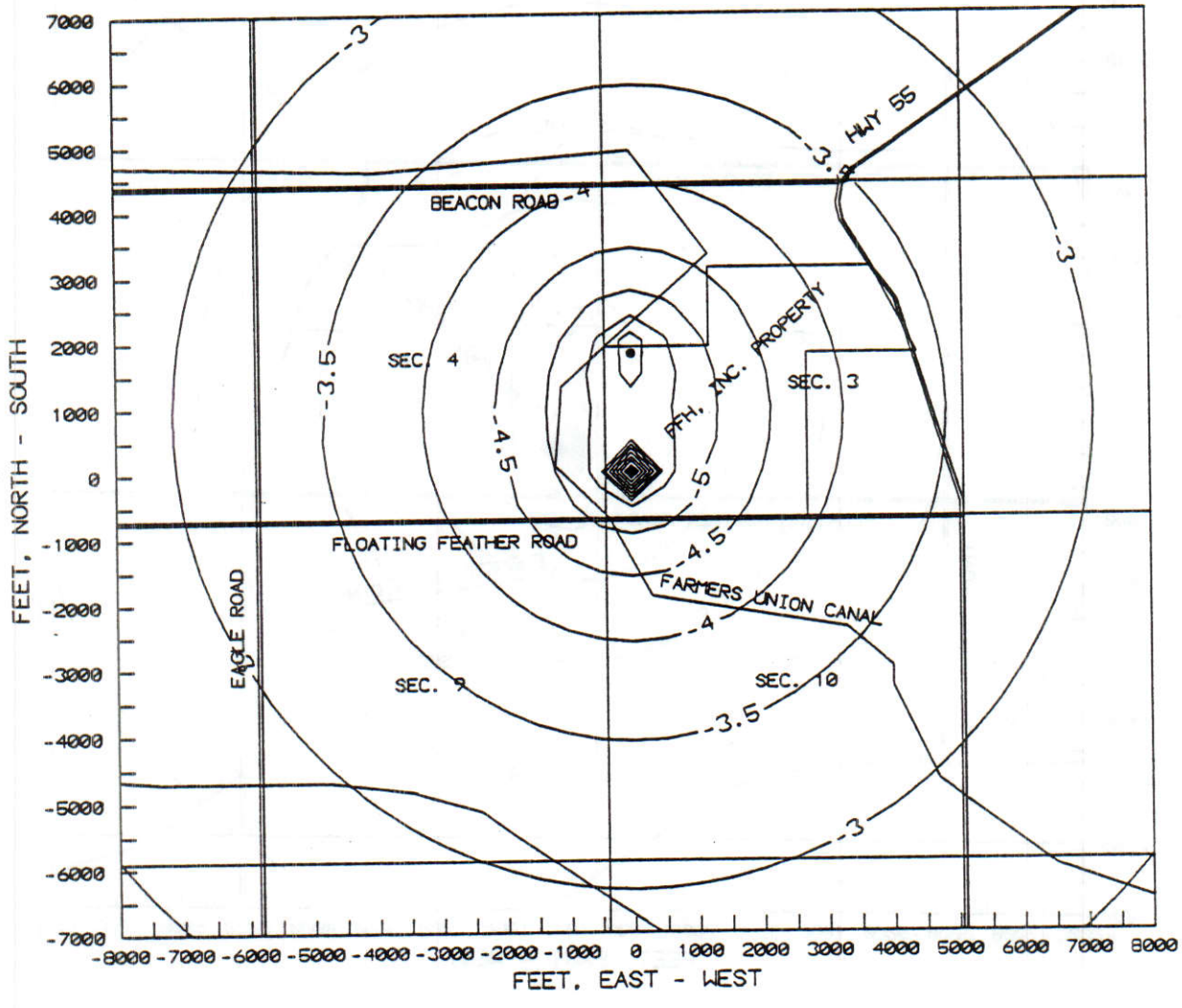


FIGURE 32
DRAWDOWN SIMULATION
T=174K, Q=1000 gpm, t=5YEARS
FLOATING FEATHER HILLS, INC.

BOI31684 A1

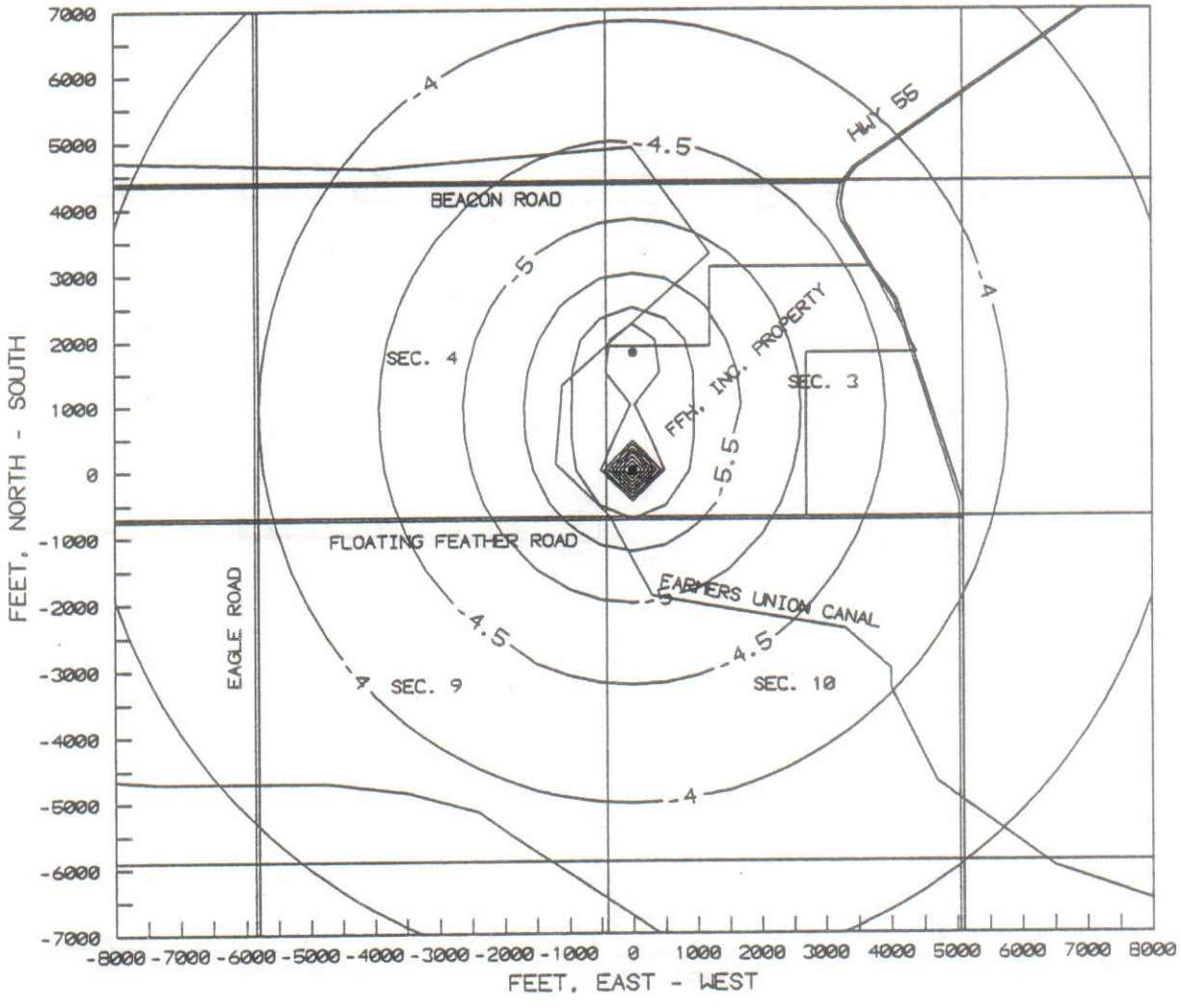


FIGURE 33
DRAWDOWN SIMULATION
T=174K, Q=1000 gpm, t=15YEARS
FLOATING FEATHER HILLS, INC.

CH2M HILL

BOI31684 A1

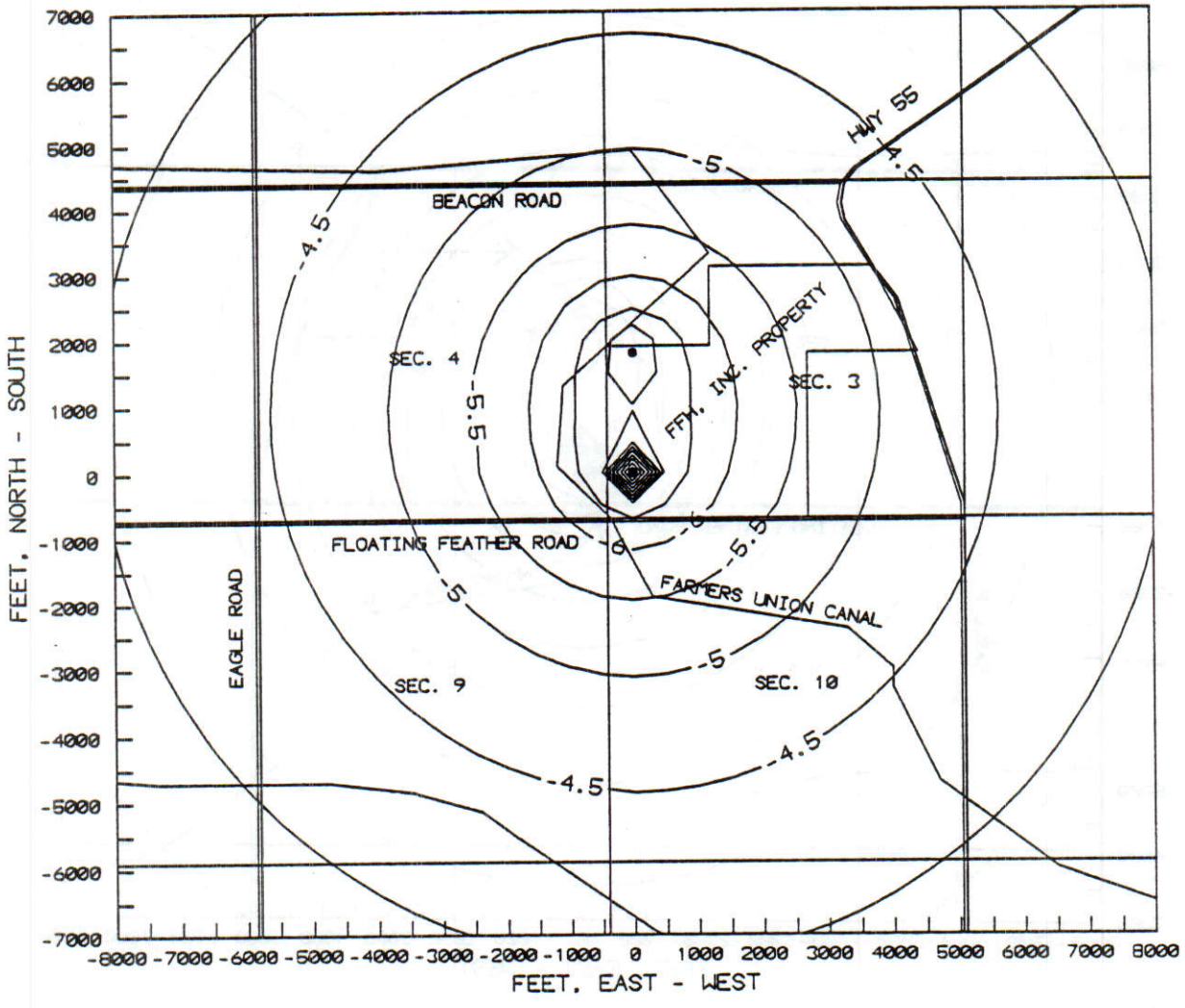


FIGURE 34
DRAWDOWN SIMULATION
T=174K, Q=1000 gpm, t=30YEARS
FLOATING FEATHER HILLS, INC.

BOI31684 A1

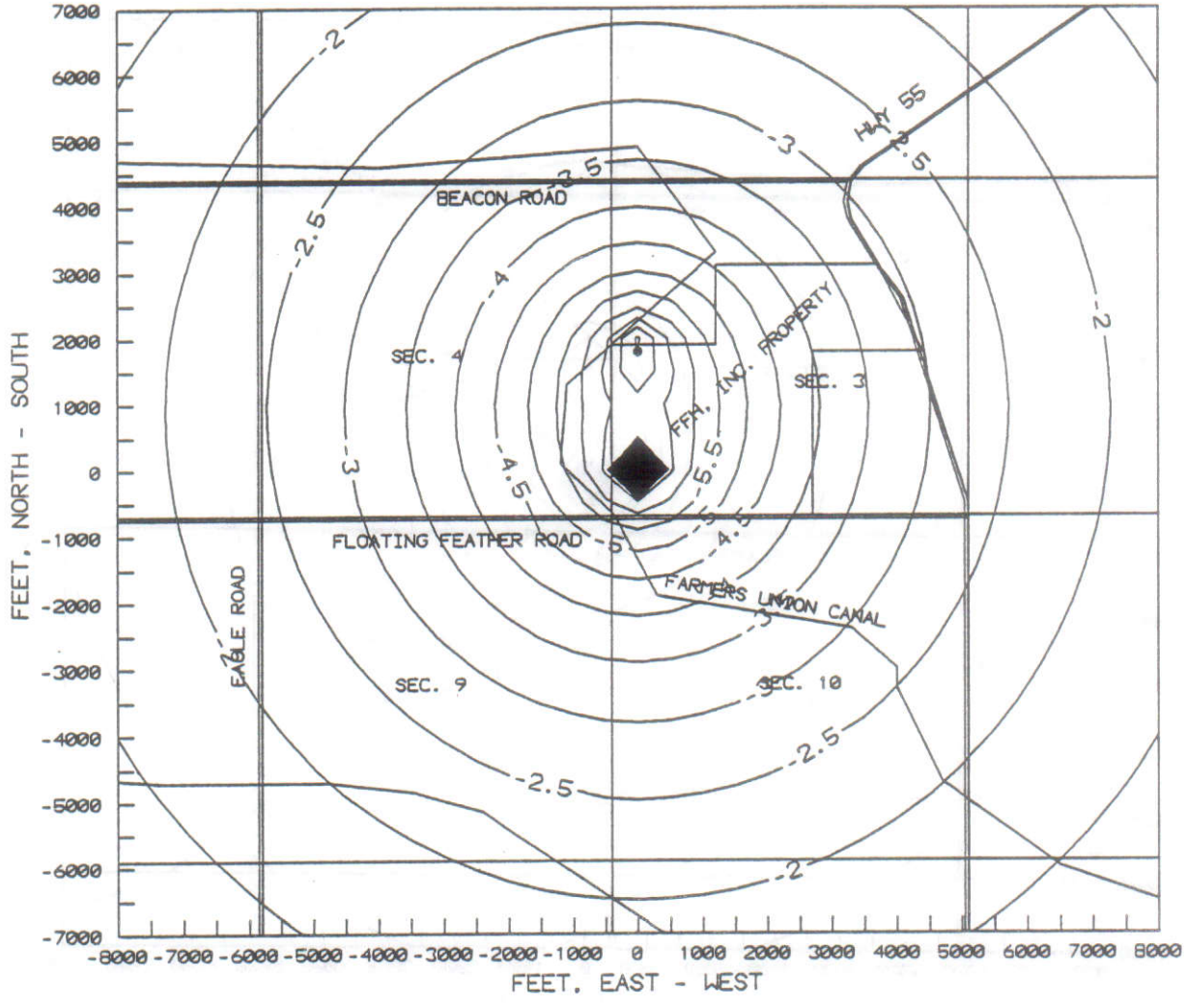


FIGURE 35
DRAWDOWN SIMULATION
T=100K, Q=1000 gpm, t=6MONTHS
FLOATING FEATHER HILLS, INC.

BOI31684 A1

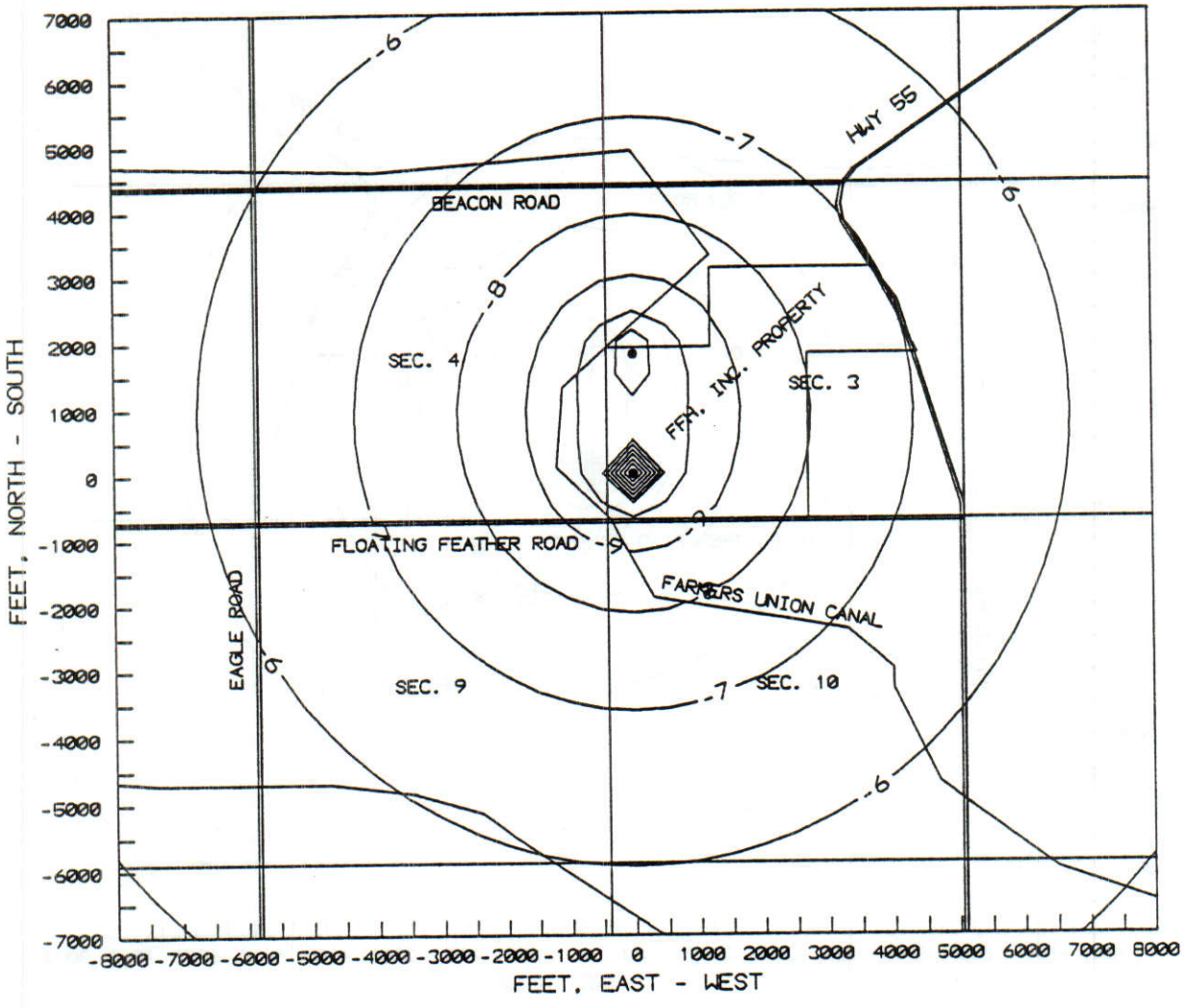


FIGURE 36
DRAWDOWN SIMULATION
T=100K, Q=1000 gpm, t=15YEARS
FLOATING FEATHER HILLS, INC.

8OI31684 A1

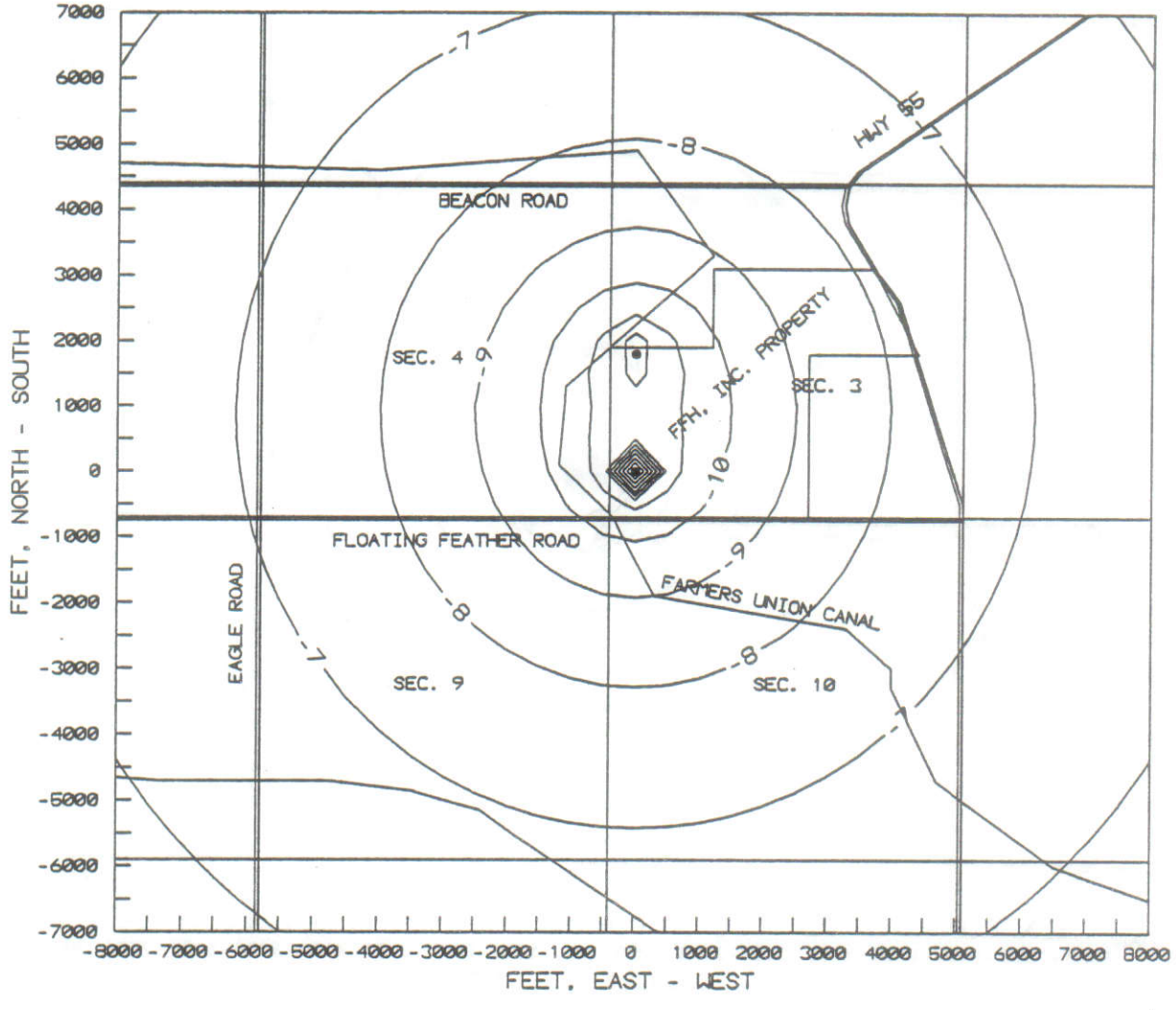


FIGURE 37
DRAWDOWN SIMULATION
T=100K, Q=1000 gpm, t=30YEARS
FLOATING FEATHER HILLS, INC.

BOI31684 A1

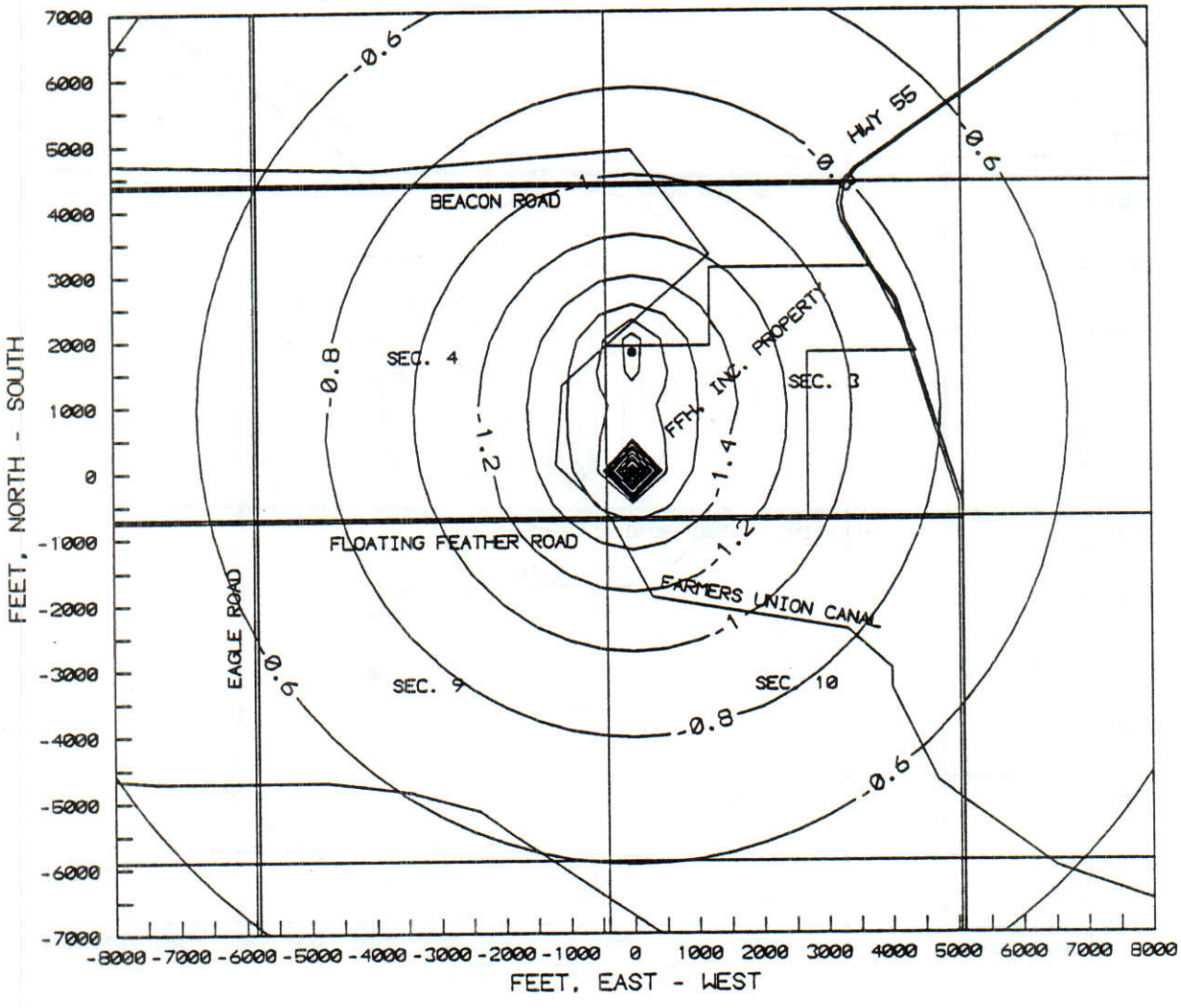


FIGURE 38
DRAWDOWN SIMULATION
T=100K, Q=278 gpm, t=6MONTHS
FLOATING FEATHER HILLS, INC.

BOI31684 A1

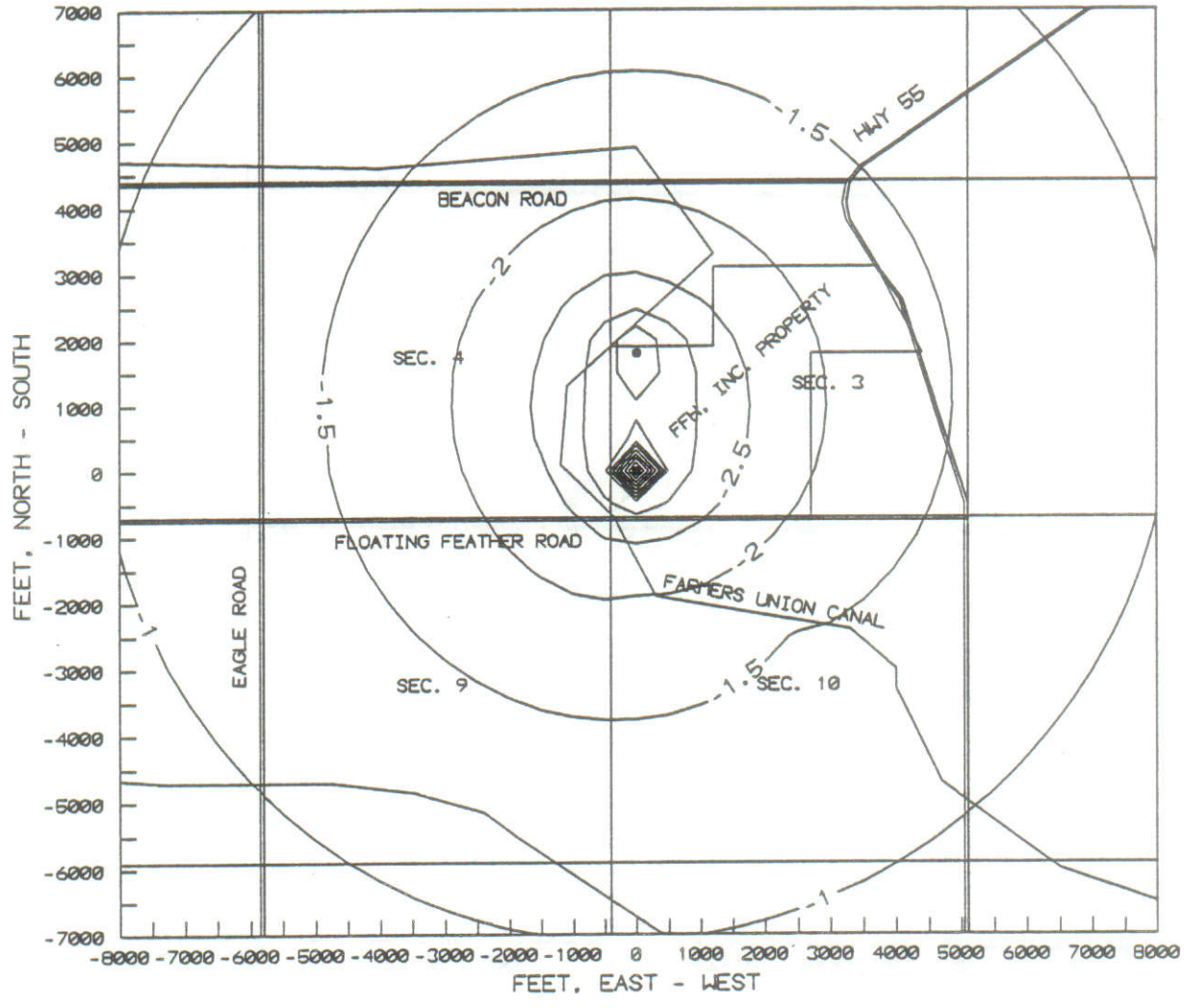


FIGURE 39
DRAWDOWN SIMULATION WITH RECHARGE T=174K, Q=1000 gpm, t=6MONTHS R=250 gpm
FLOATING FEATHER HILLS, INC.

BOI31684 A1

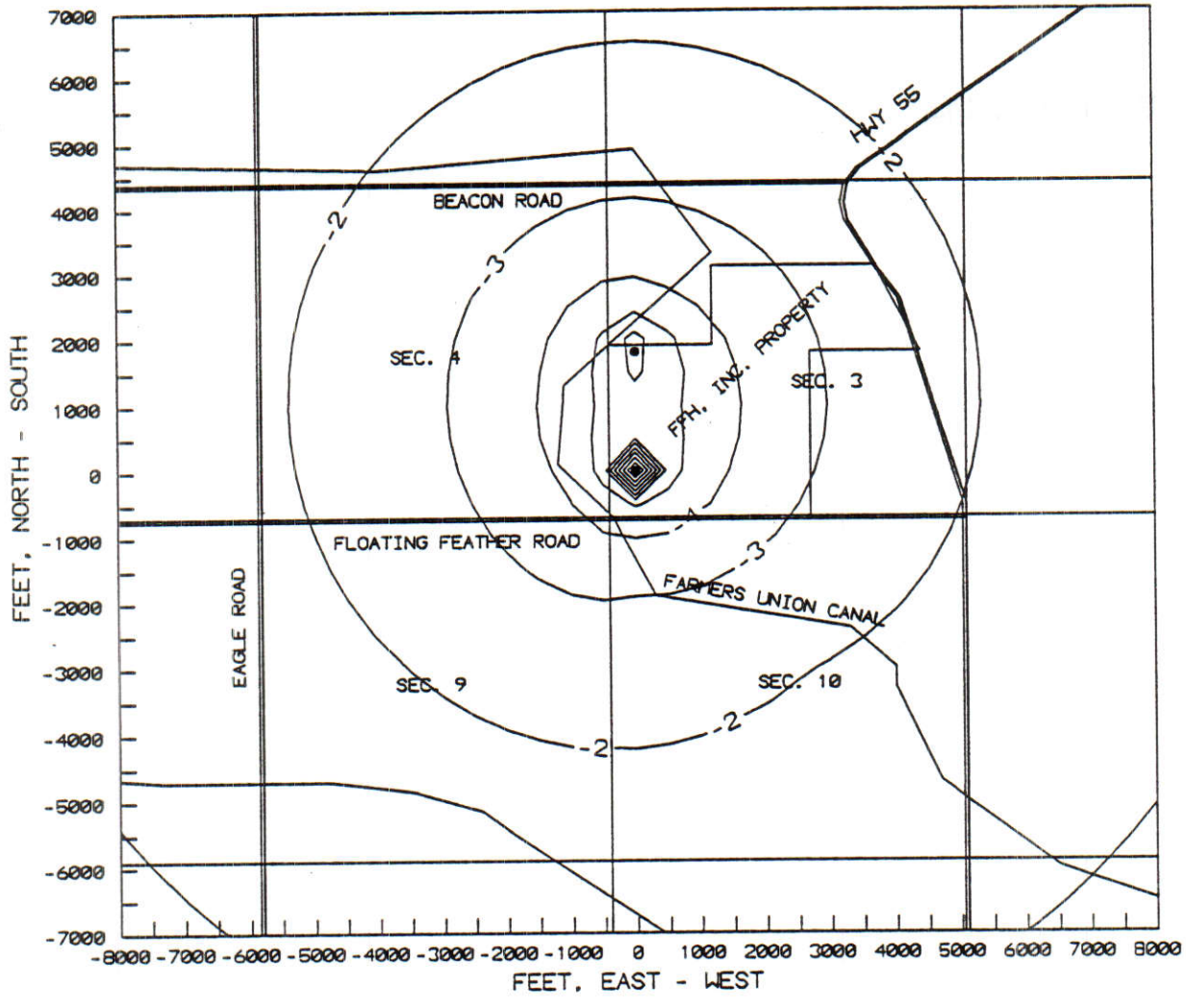


FIGURE 40
DRAWDOWN SIMULATION WITH RECHARGE T=100K, Q=1000 gpm, t=6MONTHS, R=250 gpm
FLOATING FEATHER HILLS, INC.

BOI31684 A1

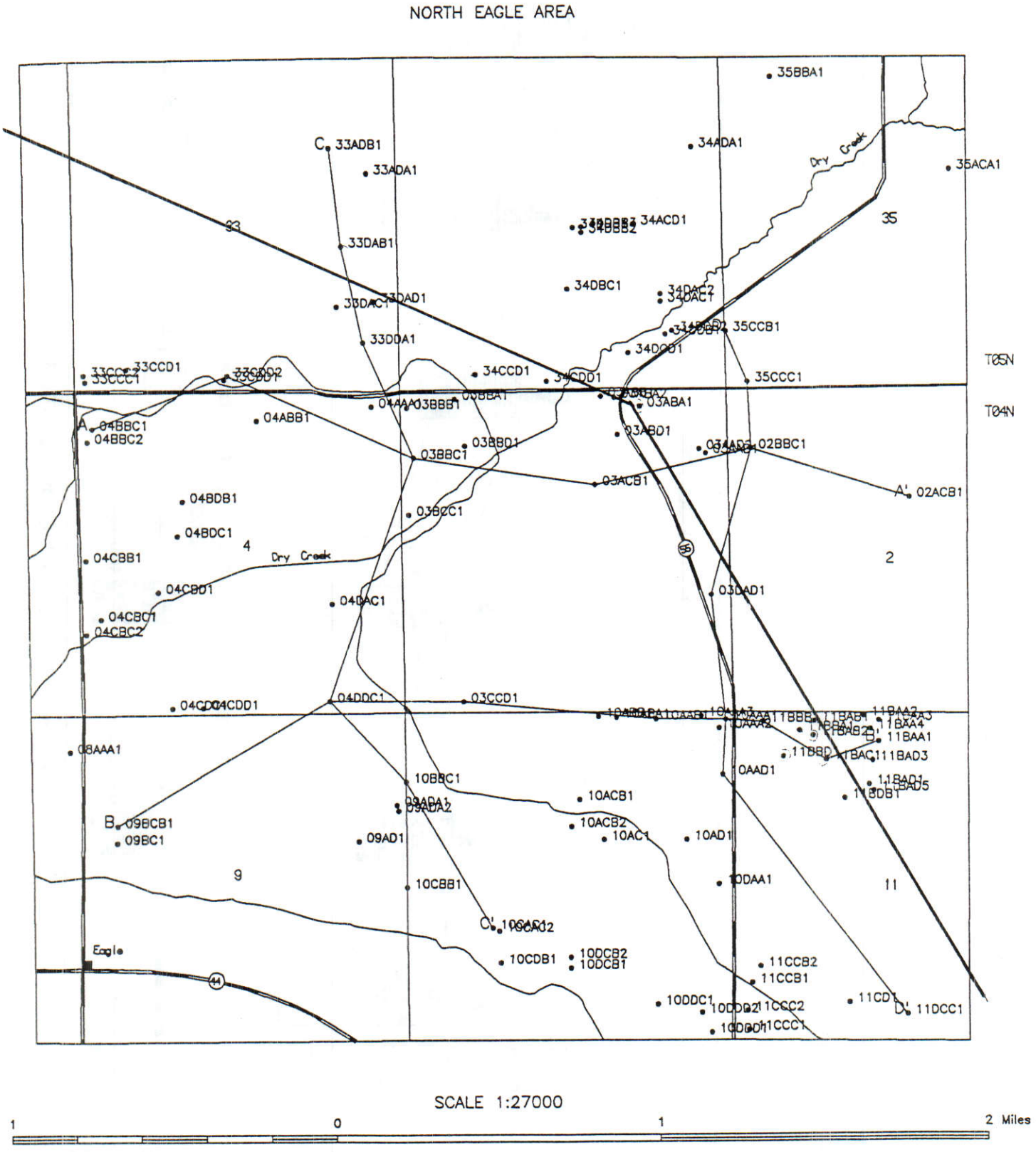


Figure 1. MAP SHOWING LOCATIONS OF INVENTORIED WELLS

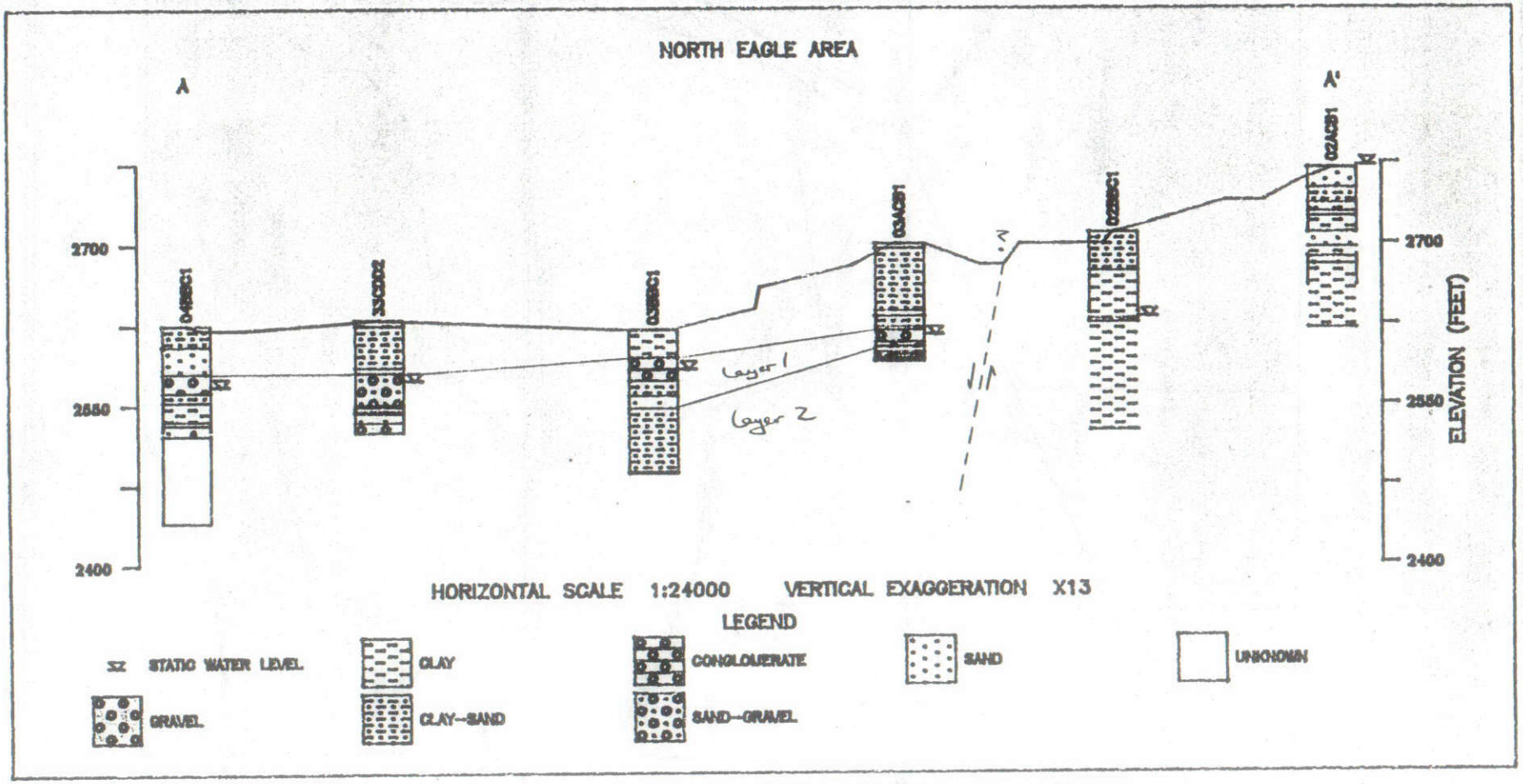


Figure 1. GEOLOGIC CROSS SECTION: A – A'

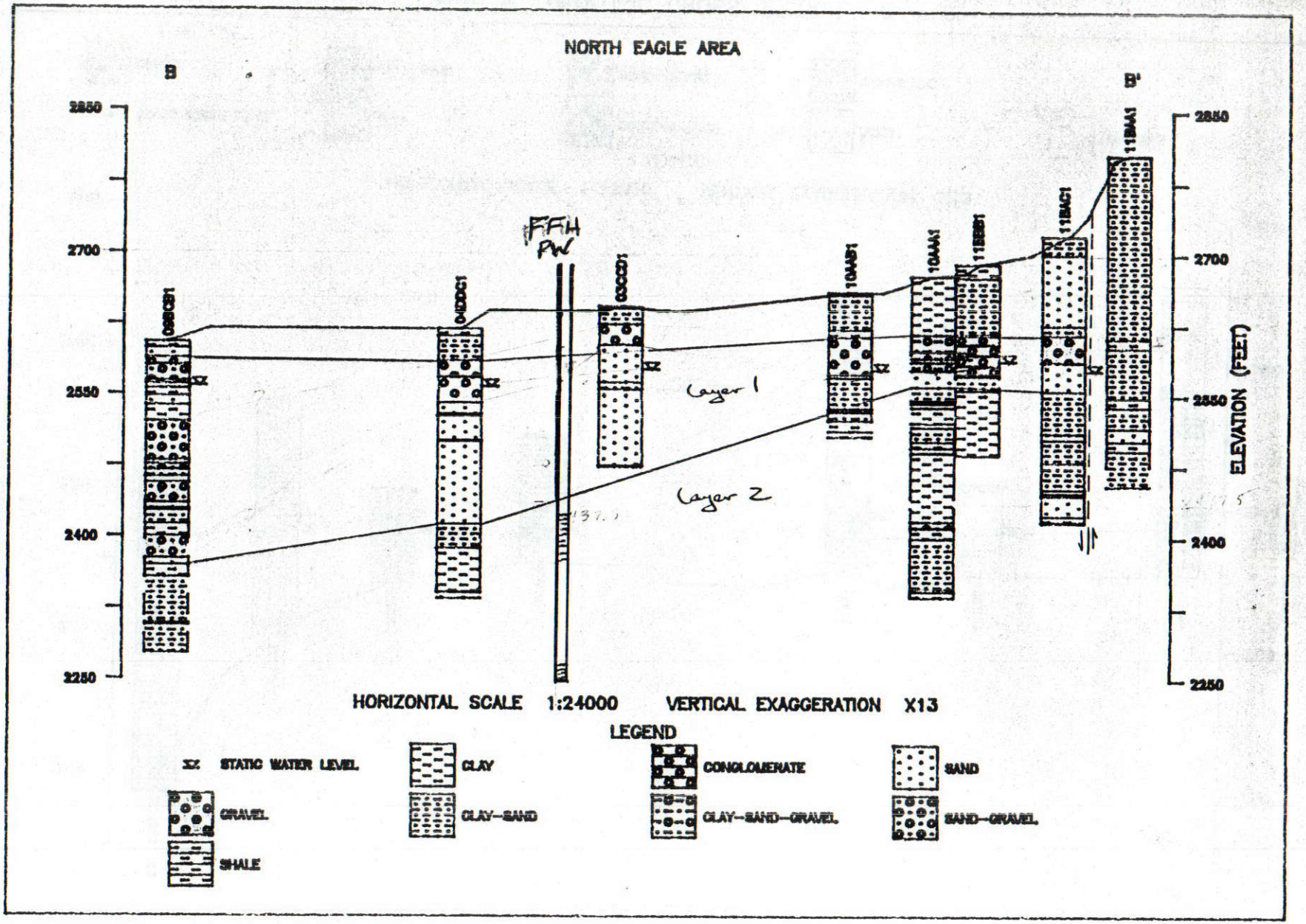


Figure 2. GEOLOGIC CROSS SECTION: B – B'

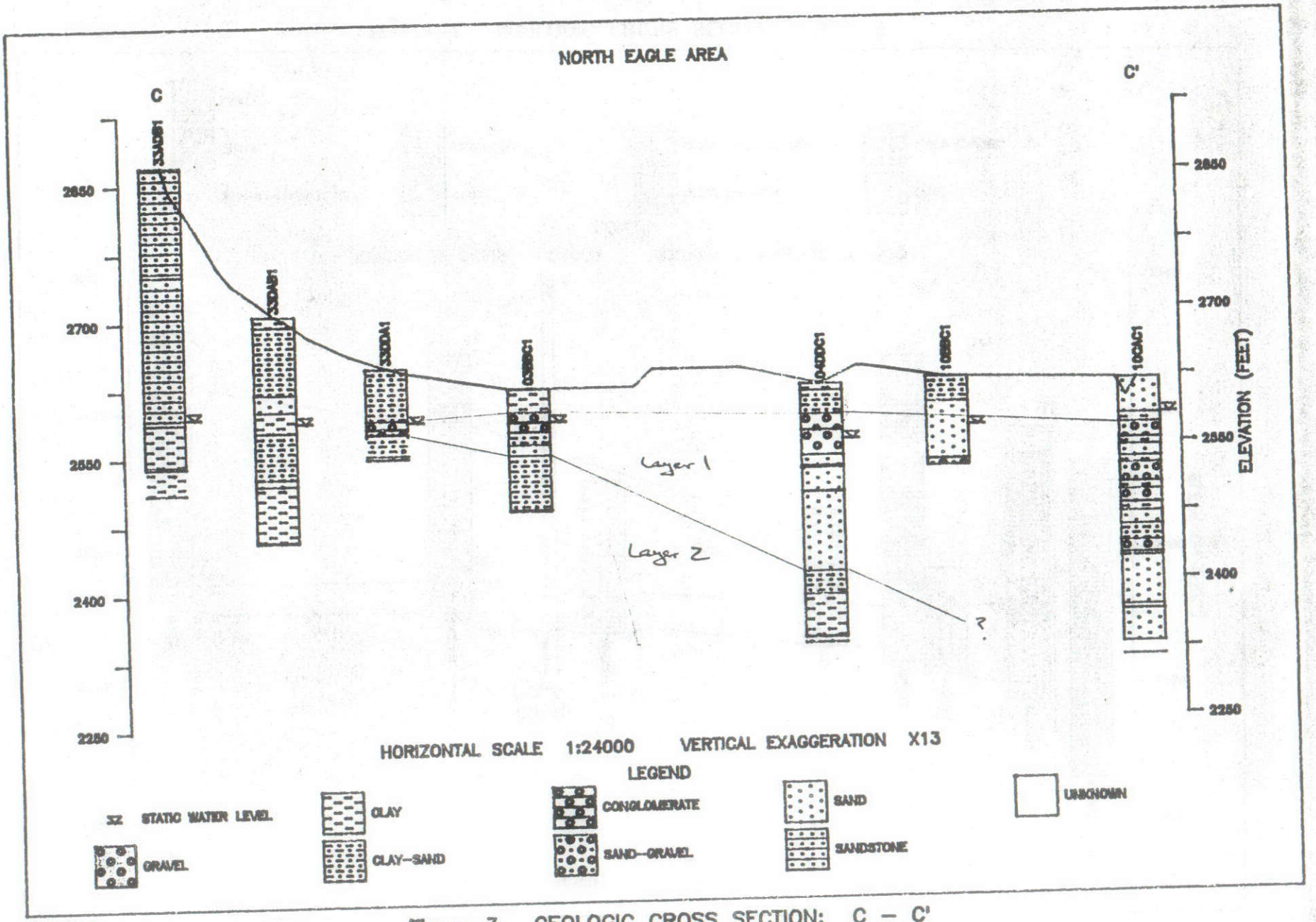


Figure 3. GEOLOGIC CROSS SECTION: C – C'

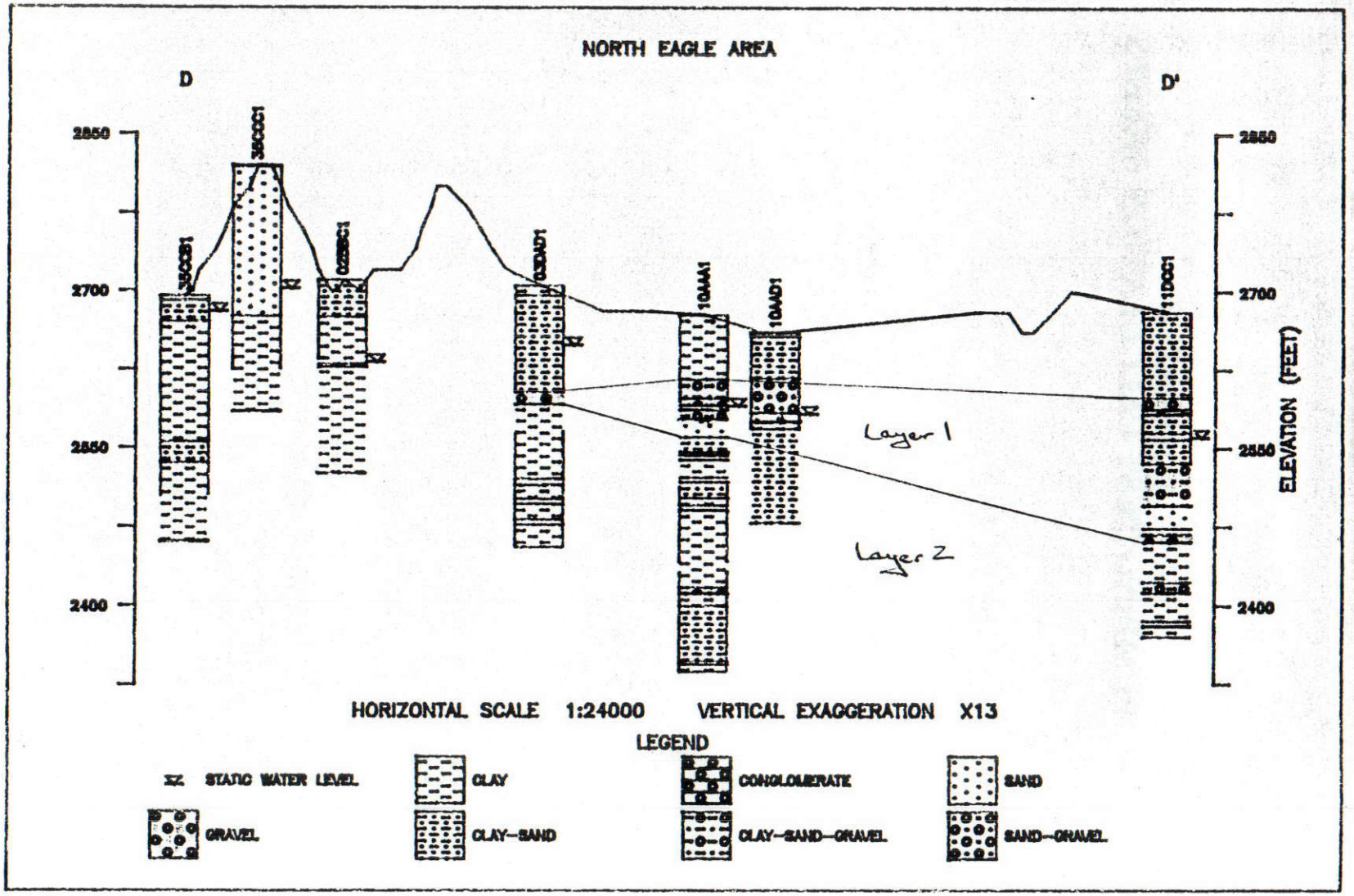
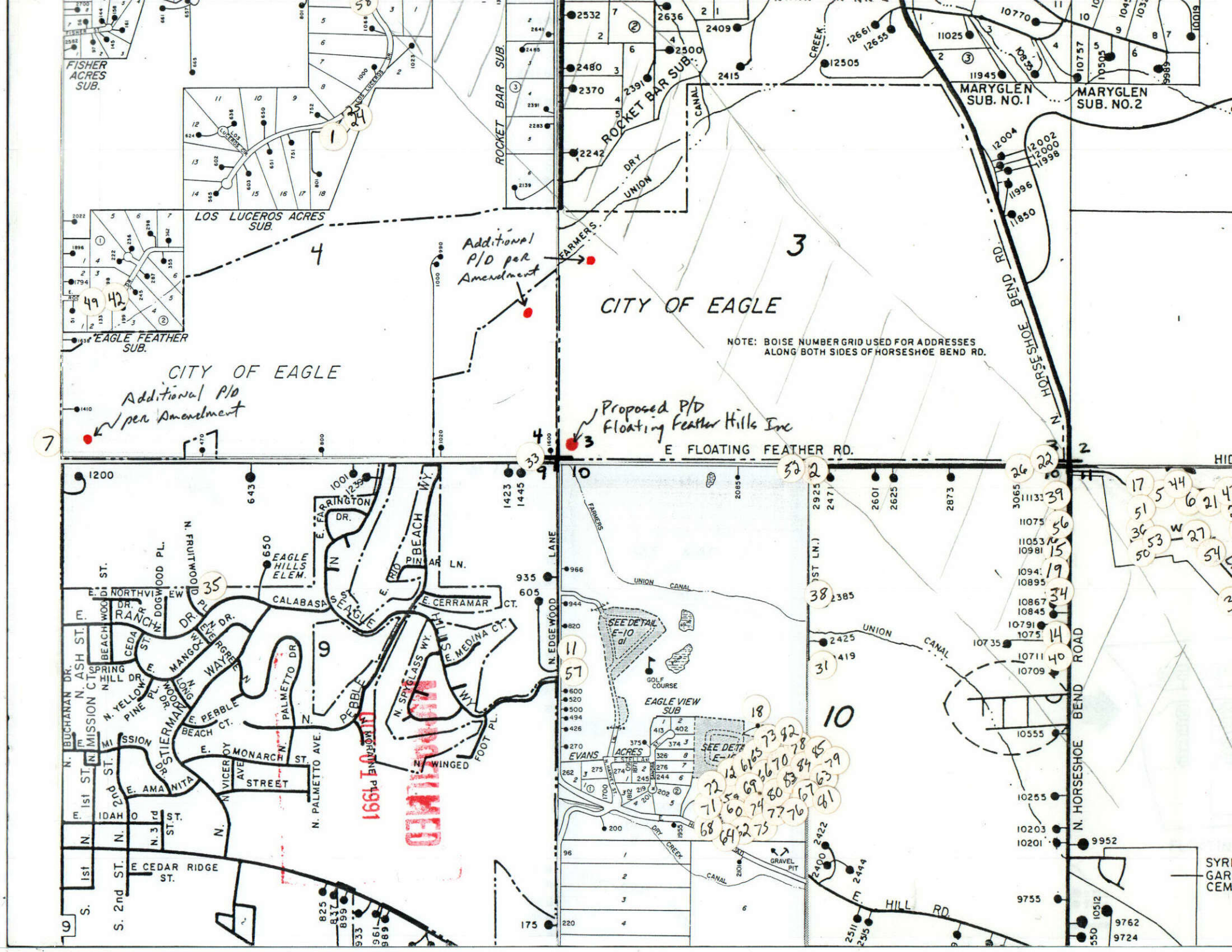
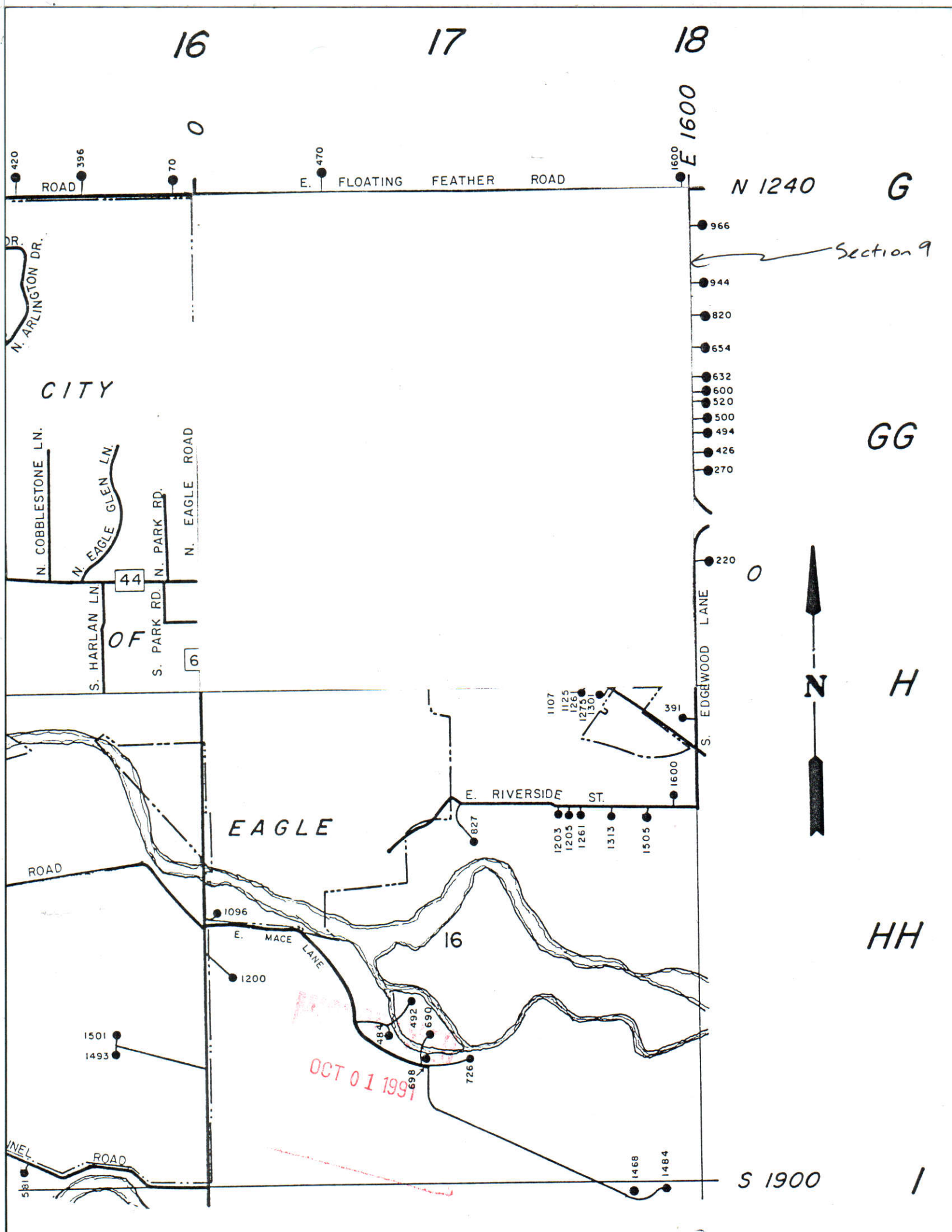
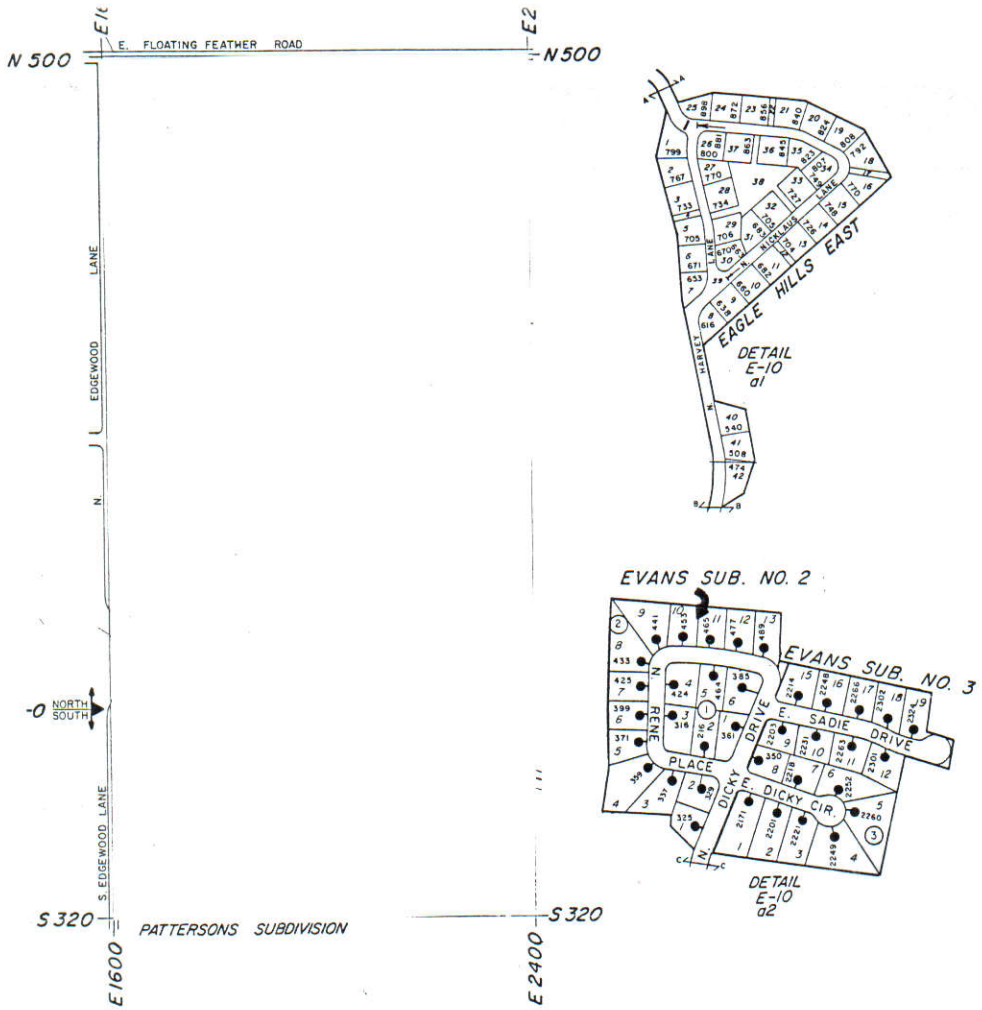


Figure 4. GEOLOGIC CROSS SECTION: D – D'


FISHER ACRES SUB.
LOS LUCEROS ACRES SUB.
ROCKET BAR SUB.
EAGLE FEATHER SUB.
MARYGLEN SUB. NO. 1
MARYGLEN SUB. NO. 2
CITY OF EAGLE
Additional P/D per Amendment
Proposed P/D Floating Feather Hills Inc
NOTE: BOISE NUMBER GRID USED FOR ADDRESSES ALONG BOTH SIDES OF HORSESHOE BEND RD.
E FLOATING FEATHER RD.
HORSESHOE BEND RD.
N. HORSESHOE BEND ROAD
FARMERS
DRY CREEK
UNION CANAL
CANAL
EAGLE HILLS ELEM.
E. FARRINGTON DR.
N. BEACH WY.
E. PINAR LN.
E. CERRAMAR CT.
N. EDGEWOOD LANE
N. FRUITWOOD PL.
CALABASAS ST.
E. EAGLE RD.
E. MEDINA CT.
N. SKYGLASS WY.
N. WINGED FOOT PL.
N. PALMETTO AVE.
E. PEBBLE BEACH CT.
E. MONARCH ST.
N. VICEROY AVE.
E. AMANITA STREET
E. CEDAR RIDGE ST.
N. MISSION CT.
N. BUCHANAN DR.
N. ASH ST.
E. SPRING HILL DR.
N. YELLOW PINE PL.
E. MANGO WAY
E. NORTHVIEW DR.
N. DOGWOOD PL.
N. BEACHWOOD ST.
E. RANCH DR.
N. CEDAR ST.
N. LONGWOOD PL.
N. 1st ST.
N. 2nd ST.
N. 3rd ST.
E. IDAHO ST.
S. 1st ST.
S. 2nd ST.
GOLF COURSE
EAGLE VIEW SUB
EVANS ACRES
SEE DETAIL E-10 a1
SEE DETAIL E-10
GRAVEL PIT
10
9
4
3
2
1


16
17
18
0
E 1600
N 1240
G
GG
HH
I
S 1900
Section 9
CITY
OF
EAGLE
ROAD
E. FLOATING FEATHER ROAD
E. RIVERSIDE ST.
E. MACE LANE
S. EDGEWOOD LANE
N. ARLINGTON DR.
N. COBBLESTONE LN.
N. EAGLE GLEN LN.
N. PARK RD.
N. EAGLE ROAD
S. HARLAN LN
S. PARK RD.
44
6
16
N
420
396
70
470
1600
966
944
820
654
632
600
520
500
494
426
270
220
391
1107
1125
1261
1275
1301
1600
827
1203
1205
1261
1313
1505
1096
1200
1501
1493
484
492
690
698
726
581
1468
1484


E1
E2
E. FLOATING FEATHER ROAD
N 500
N 500
EDGEWOOD LANE
N
NORTH
SOUTH
S. EDGEWOOD LANE
S 320
S 320
PATTERSONS SUBDIVISION
E1600
E 2400
EAGLE HILLS EAST
DETAIL
E-10
a1
EVANS SUB. NO. 2
EVANS SUB. NO. 3
RENE PLACE
DICKY DRIVE
SADIE DRIVE
DICKY CIR.
DETAIL
E-10
a2
N

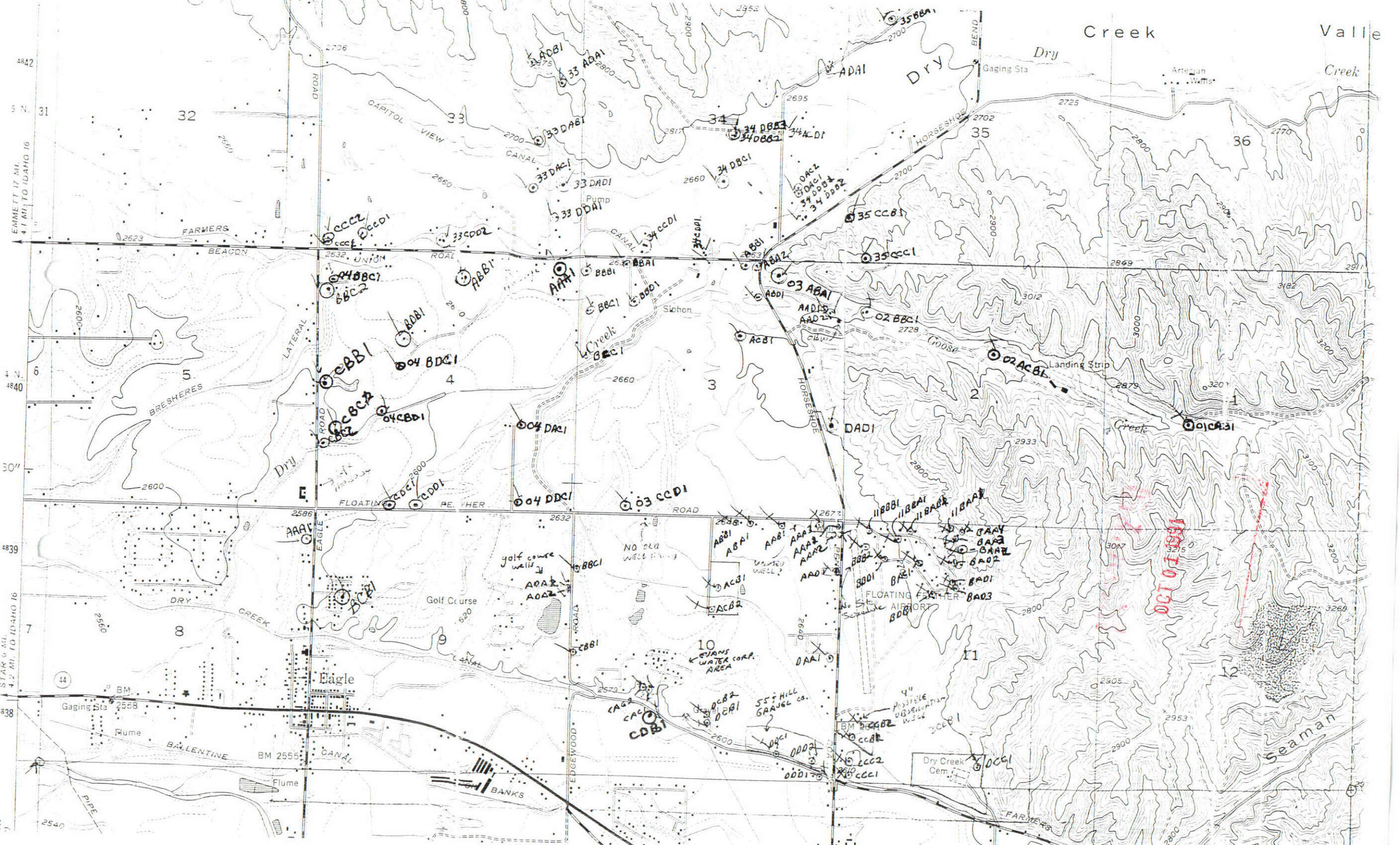
OCT 01 1991

N
W 6800
BOISE NUMBERS
W 10600
E 3200
EAGLE NUMBERS
W 3200
N 2840
0-
EAGLE NUMBERS
S 2000
N 7600
BOISE NUMBERS
SEAMAN GULCH RD.
GARY LANE
BOGART LN.
UNION HILL CANAL RD.
HORSESHOE BEND RD.
GOOSE CREEK
FARMERS
BOISE RIVER
DRY CREEK
FLOATING FEATHER RD.
BEACON LIGHT RD.
BALLANTINE RD.
EAGLE RD.
EAGLE
1
2
3
4
5
6
7
10
11
12
13
14
15
16
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18
19
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21
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44
26
20

OCT 0 1 1991


UNION CANAL
EDGEWOOD LANE
N.
966
944
820
654
632
600
520
500
494
426
270
SEE DETAIL E-10 a1
GOLF COURSE
EAGLE VIEW SUB
EVANS ACRES
E. STELLA ST.
N. HARVEY ST.
SANDRA LN.
375
500
SEE DETAIL E-10 a2
262
275
274
245
244
276
326
413
402
374
1700
1812
219
201
202
2040
200
1955
2101
N. DICKY DR.
E. HILL ROAD
DRY CREEK CANAL
GRAVEL PIT
NORTH SOUTH
96
220
S. EDGEWOOD LANE
S 320
PATTERSONS SUBDIVISION
1600
2400
EAGLE HILLS EAST
N. HARVEY LANE
NICKLAUS LANE
DETAIL E-10 a1
EVANS SUB. NO. 2
EVANS SUB. NO. 3
RENE PLACE
E. SADIE DRIVE
E. DICKY DRIVE
E. DICKY CIR.
DETAIL E-10 a2

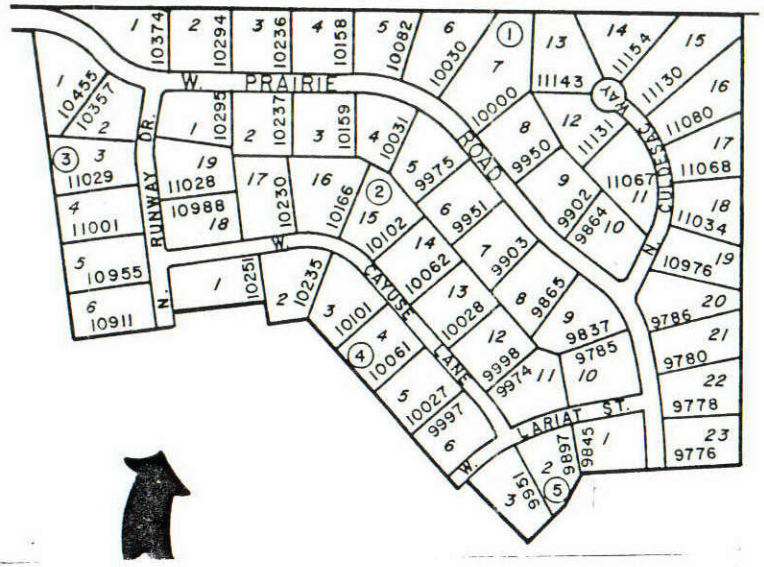
OCT 01 1991


Creek
Valle
Dry
Creek
Gaging Sta
Artesian Wells
HORSESHOE BEND
CAPITOL VIEW ROAD
CANAL
FARMERS BEACON ROAD
UNION
LATERAL
BRESHERES
Dry Creek
EAGLE ROAD
FLOATING FEATHER ROAD
Siphon
Goose Creek
Landing Strip
Golf Course
golf course wells
NO OLD WELLS PLANT
UNUSED WELL
FLOATING FEATHER AIRPORT
No Scheduled
DRY CREEK
Eagle
BM Gaging Sta 2568
Flume
BALLENTINE CANAL
BM 2555
Flume
BANKS
EDGEWOOD ROAD
EVANS WATER CORP. AREA
55th HILL GRAVEL CO.
4" PIEZOMETER OBSERVATION WELL
Dry Creek Cem.
Seaman
FARMERS
PIPE
EMMETT 17 MI. 41 MI. TO IDAHO 16
STAR 6 MI. 42 MI. TO IDAHO 16
T. 5 N.
T. 4 N.
R. 1 W.
OCT 0 1991

N 12800

OCT 0 1 1991

SAGE ACRES RANCHETTES

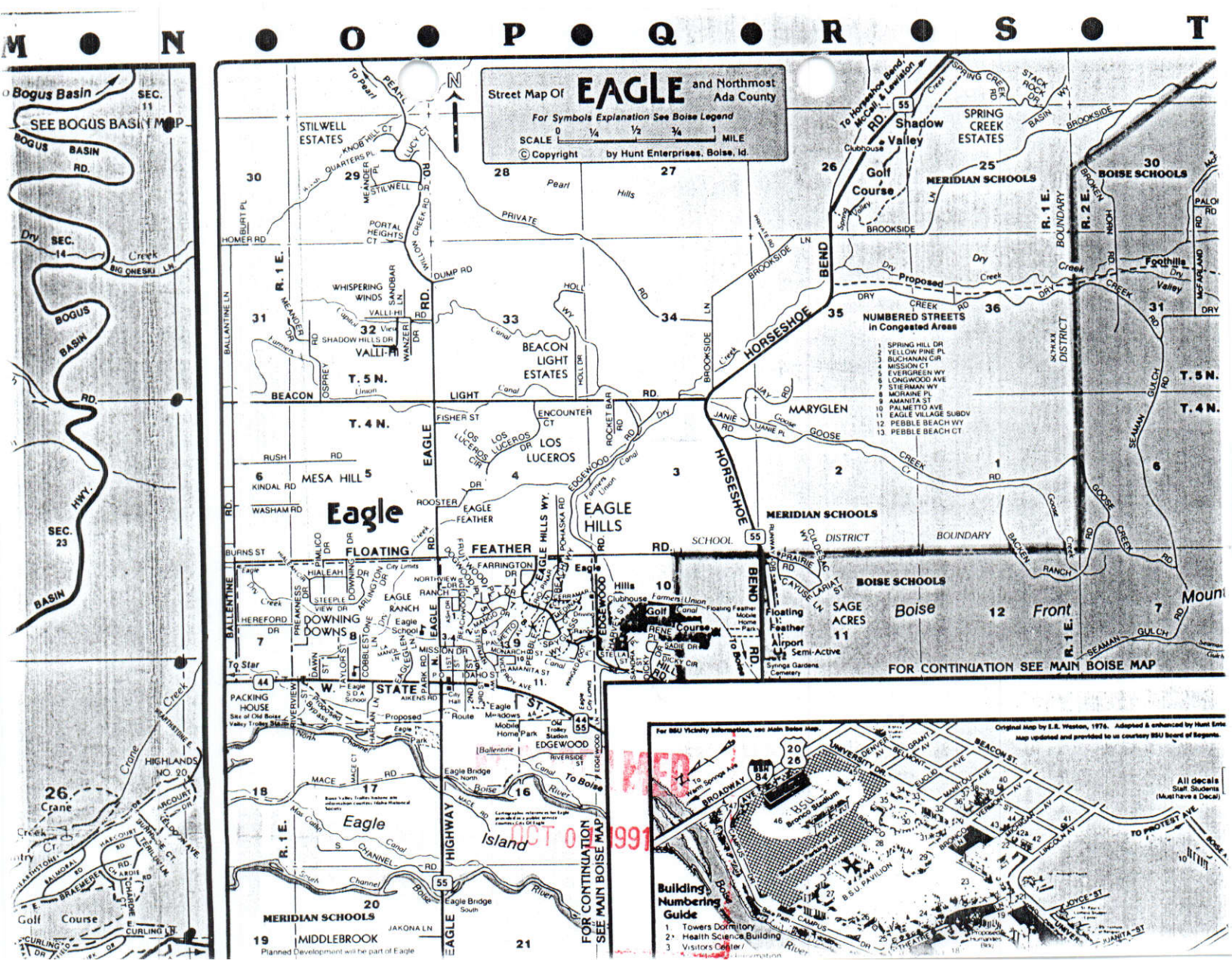


W 10600

N 11200

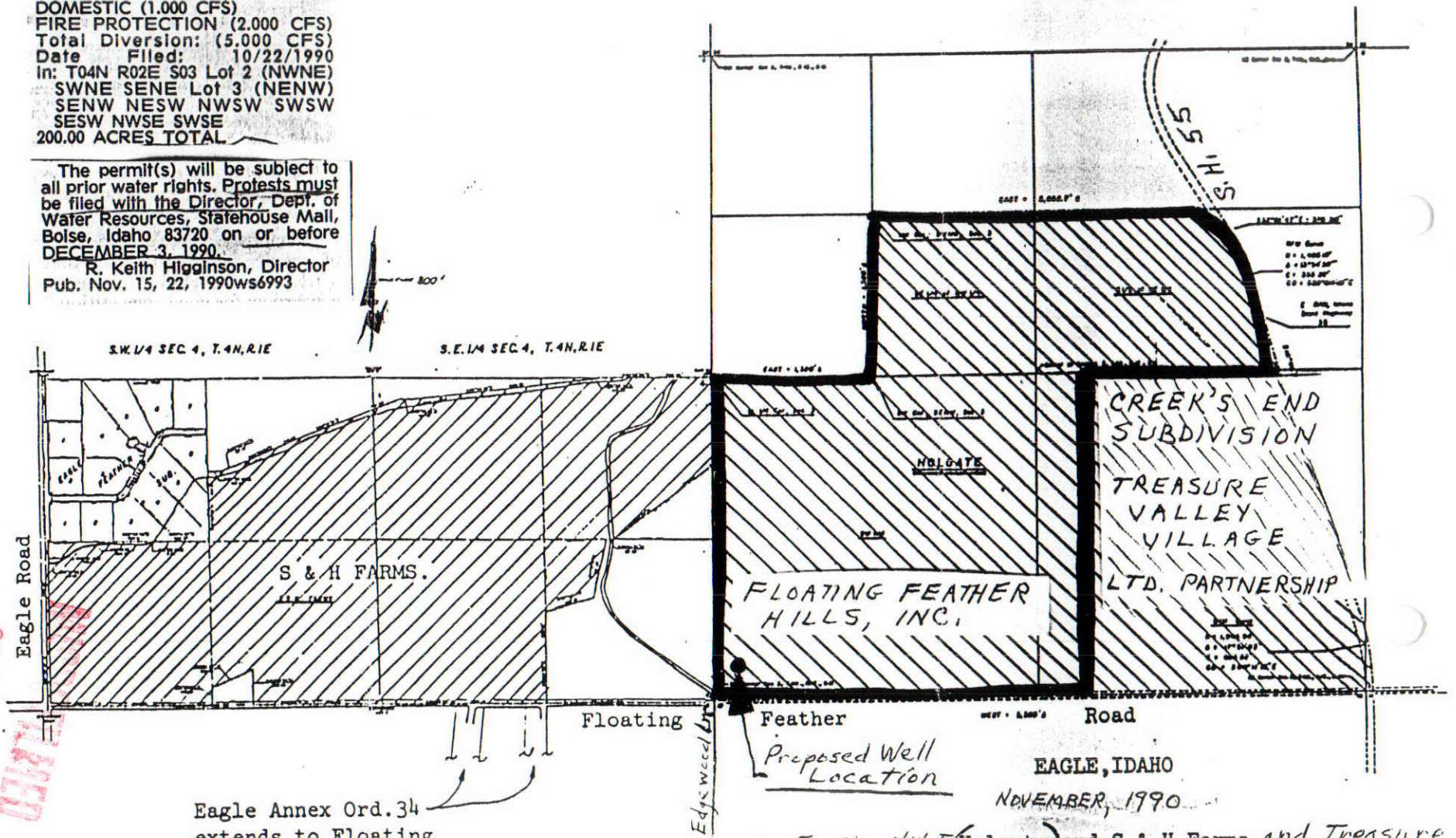
11133
11075
11053
10981
10943
10895
10867
10845
10753
10735
10711
10709
10601
10555

Sec 11


M N O P Q R S T
Street Map Of EAGLE and Northmost Ada County
For Symbols Explanation See Boise Legend
SCALE 0 ¼ ½ ¾ 1 MILE
© Copyright by Hunt Enterprises, Boise, Id.
Bogus Basin
SEE BOGUS BASIN MAP
BOGUS BASIN RD.
SEC. 11
SEC. 14
SEC. 23
Dry Creek
BIG ONEKSKI LN
BOGUS BASIN RD.
HWY.
BASIN
STILWELL ESTATES
KNOBHILL CT
QUARTERS PL
MEANDER PL
STILWELL DR.
LUCY CT
MELLOW CREEK RD
PORTAL HEIGHTS CT
HOMER RD
DUMP RD
WHISPERING WINDS
SANDBAR LN
VALLI HI RD
SHADOW HILLS DR
MEANDER DR
OSPREY RD
WANZER DR
BEACON LIGHT ESTATES
HOLL DR
HOLL WY
BEACON LIGHT RD
BALLANTINE LN
FISHER ST
ENCOUNTER CT
LOS LUCEROS
LOS LUCEROS CIR
RUSH RD
KINDAL RD
MESA HILL
WASHAM RD
EAGLE RD
ROOSTER DR
EAGLE FEATHER
FLOATING FEATHER
BURNS ST
PIMLICO DR
DOWNING DR
ARLINGTON DR
STEEPLE VIEW DR
HIALEAH
PREAKNESS
HEREFORD DR
DOWNING DOWNS
EAGLE RANCH
Eagle School
COBBLESTONE LN
MISSION DR
EAGLE LN
PARK RD
DAWN ST
TAYLOR ST
To Star
W. STATE ST
AIKENS RD
PACKING HOUSE
Site of Old Boise Valley Trolley Station
RIVERVIEW ST
BYRD AV
HARLAN LN
Proposed
Eagle Park
North Channel
Crane Creek
HIGHLANDS NO. 20
ARGYLE DR
ARGYLE CT
TERLOUW LN
BRAEMERE DR
CHARDIE CT
CHARDIE RD
Golf Course
CURLING LN
CURLING TO
MACE CT
MACE RD
Eagle Bridge North
Boise River
Mace Canal
Eagle Island
S CHANNEL RD
South Channel
Eagle Bridge South
JAKONA LN
MERIDIAN SCHOOLS
MIDDLEBROOK
Planned Development will be part of Eagle
FOR CONTINUATION SEE MAIN BOISE MAP
To Pearl
PEARL
Pearl Hills
PRIVATE
PRIVATE RD
BROOKSIDE LN
HORSESHOE BEND
Dry Creek
Proposed
DRY CREEK RD
NUMBERED STREETS in Congested Areas
1 SPRING HILL DR
2 YELLOW PINE PL
3 BUCHANAN CIR
4 MISSION CT
5 EVERGREEN WY
6 LONGWOOD AVE
7 STIERMAN WY
8 MORAINE PL
9 AMANITA ST
10 PALMETTO AVE
11 EAGLE VILLAGE SUBDV
12 PEBBLE BEACH WY
13 PEBBLE BEACH CT
MARYGLEN
JANIE RD
JANIE PL
GOOSE CREEK CT
ROCKET BAR RD
EDGEWOOD
Farmers Union Canal
EAGLE HILLS
EAGLE HILLS WY.
POHASKA RD
SCHOOL DISTRICT BOUNDARY
MERIDIAN SCHOOLS
BOISE SCHOOLS
Floating Feather Airport Semi-Active
Syringa Gardens Cemetery
SAGE ACRES
Boise Front
SPRING CREEK RD
STACK ROCK DR
SPRING CREEK ESTATES
Shadow Valley Golf Course
Clubhouse
To Horseshoe Bend, McCall & Lewiston
BROOKSIDE
BOISE SCHOOLS
FOOTHILLS RD
McFARLAND
Foothills Valley
SEAMAN GULCH
GOOSE CREEK
PRAIRIE RD
CAYUSE LARIAT ST
RANCH
BACKEN
To Boise
FOR CONTINUATION SEE MAIN BOISE MAP
R. 1 E.
R. 2 E.
T. 5 N.
T. 4 N.
Original Map by E.R. Weston, 1976. Adapted & enhanced by Hunt Enterprises
Map updated and provided to us courtesy BSU Board of Regents.
For BSU Visitors Information, see Main Boise Map.
All decals Staff Students (Must have a Decal)
UNIVERSITY DR
BELMONT AV
BEACON ST
BRONCO STADIUM
BSU PAVILION
TO PROTEST AVE
Building Numbering Guide
1 Towers Dormitory
2 Health Science Building
3 Visitors Center
CAMPUS DR
RIVER
OCT 0 1991

63-11413
FLOATING FEATHER HILLS INC.
4227 EMERALD
BOISE, ID 83706
Source: GROUNDWATER
Diversion Pt: SWSWSW Sec 3 T04N R01E
Use: IRRIGATION (2.000 CFS)
DOMESTIC (1.000 CFS)
FIRE PROTECTION (2.000 CFS)
Total Diversion: (5.000 CFS)
Date Filed: 10/22/1990
In: T04N R02E S03 Lot 2 (NWNE) SWNE SENE Lot 3 (NENW) SENW NESW NWSW SWSW SESW NWSE SWSE
200.00 ACRES TOTAL

The permit(s) will be subject to all prior water rights. Protests must be filed with the Director, Dept. of Water Resources, Statehouse Mail, Boise, Idaho 83720 on or before DECEMBER 3, 1990.
R. Keith Higginson, Director
Pub. Nov. 15, 22, 1990ws6993



OCT 01 1991

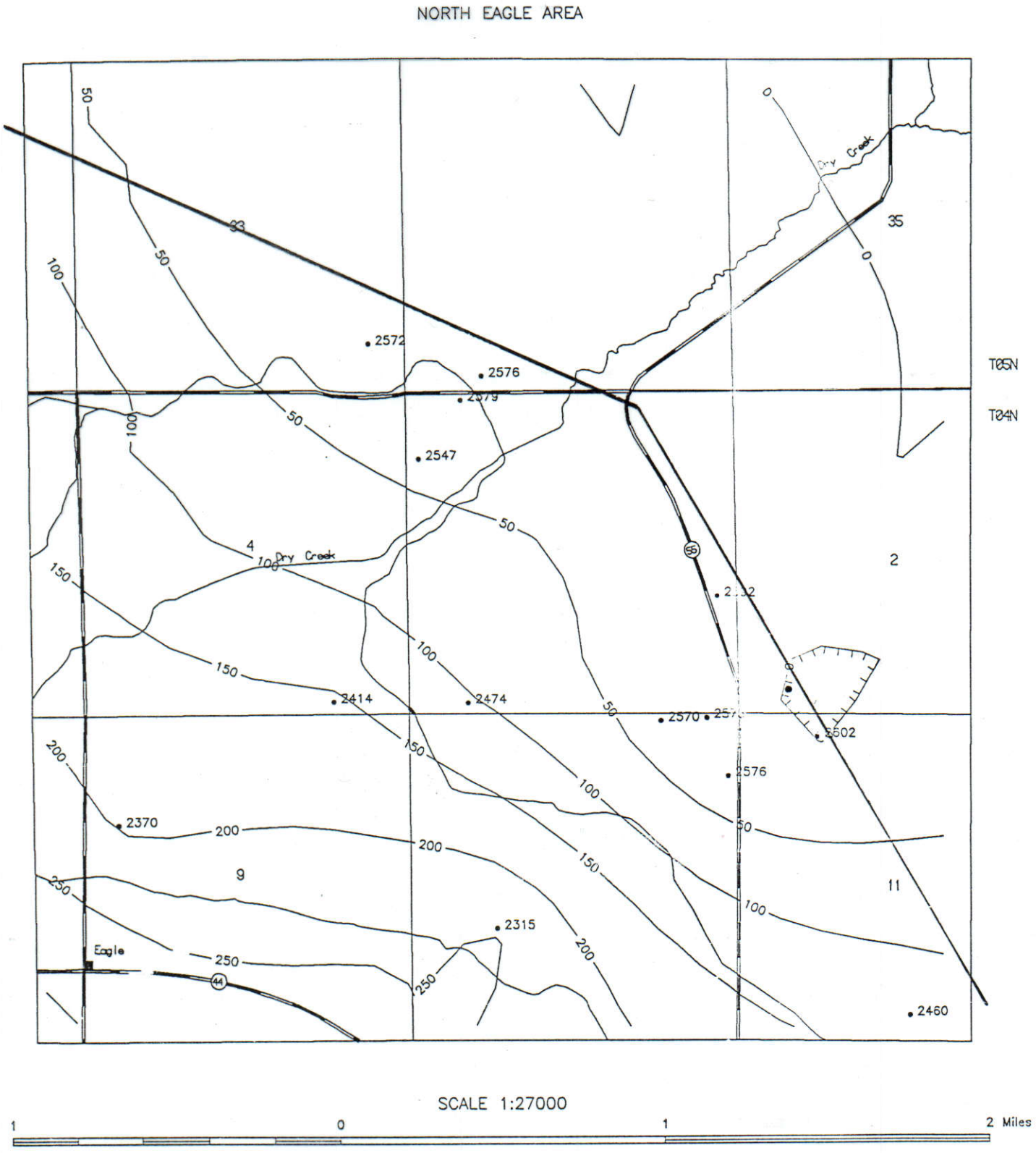


Figure 4. COMPUTED SATURATED THICKNESS OF MODEL LAYER 1, MARCH 1989

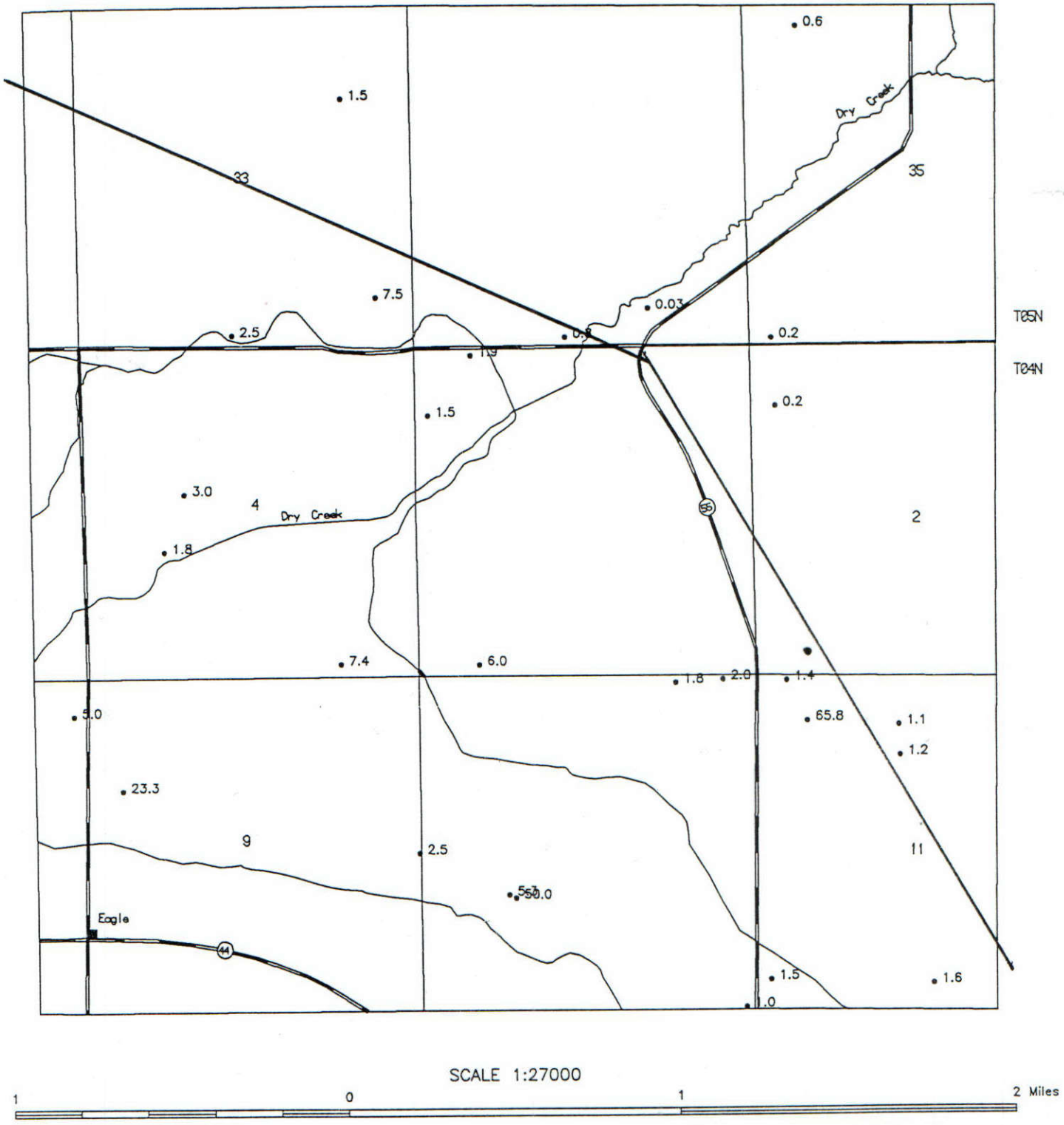


Figure 3. MAP SHOWING SPECIFIC CAPACITIES OF INVENTORIED WELLS

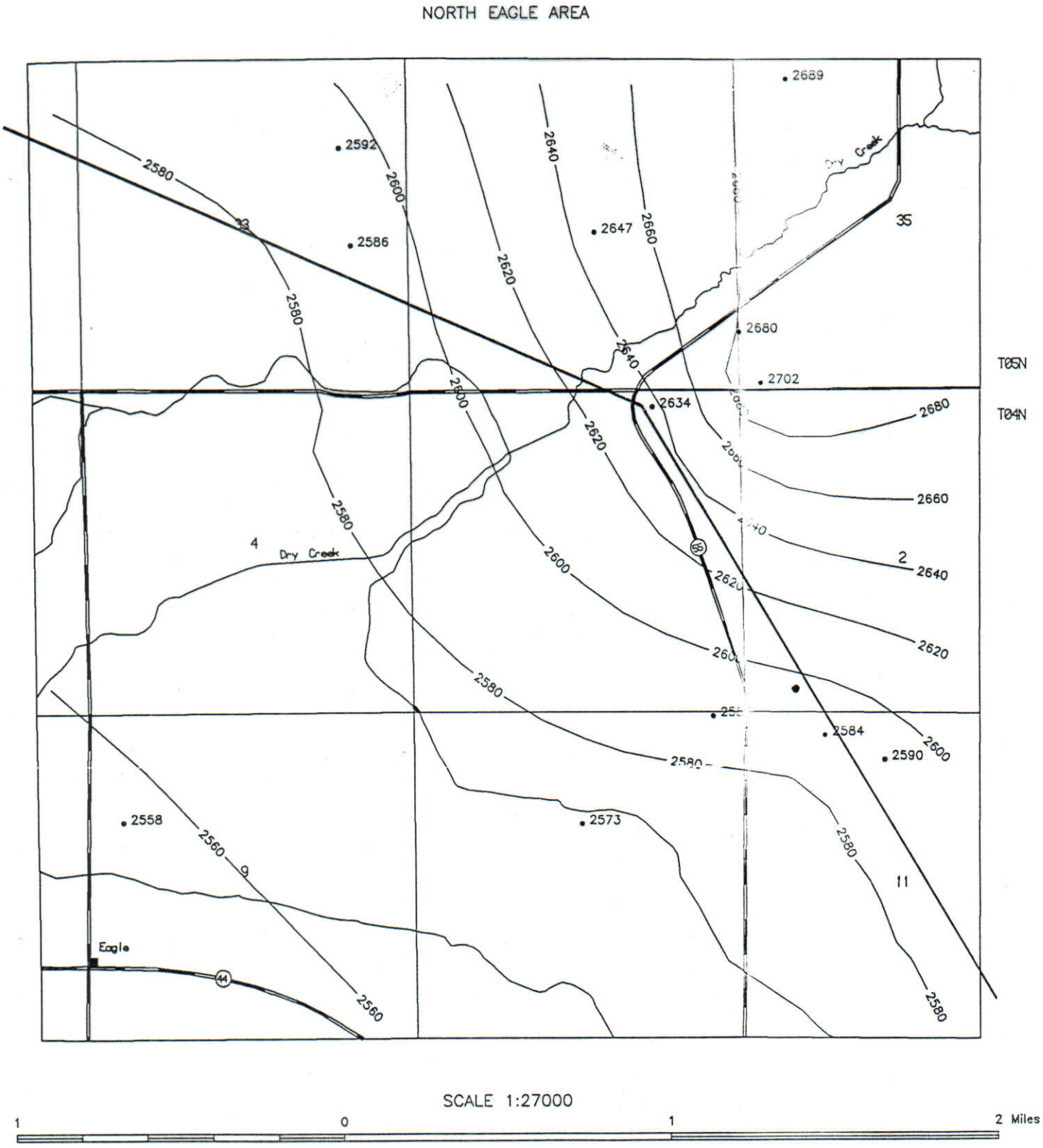


Figure 2. WATER–LEVEL ELEVATION FOR MODEL LAYER 2, MARCH 1989

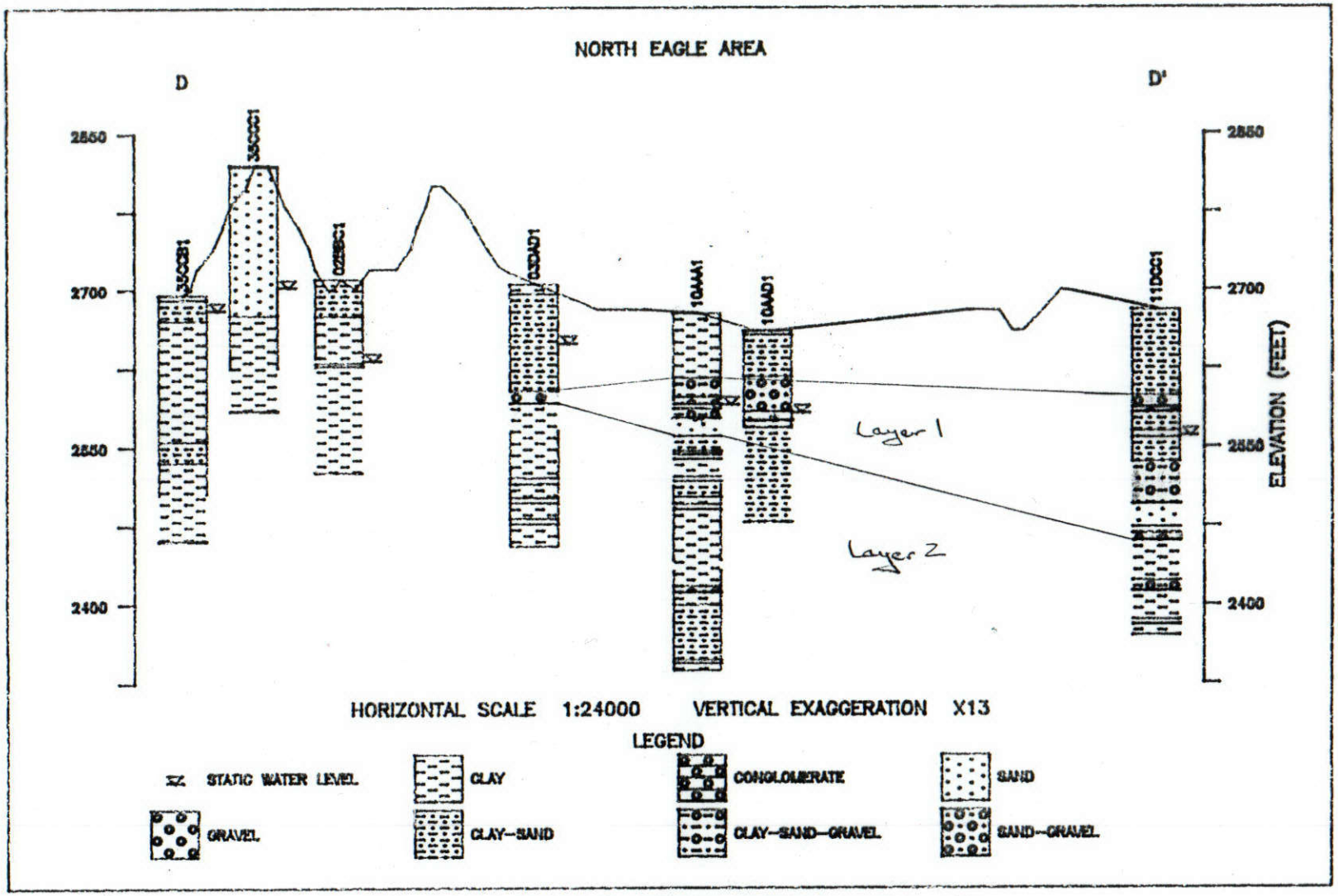


Figure 4. GEOLOGIC CROSS SECTION: D -- D'

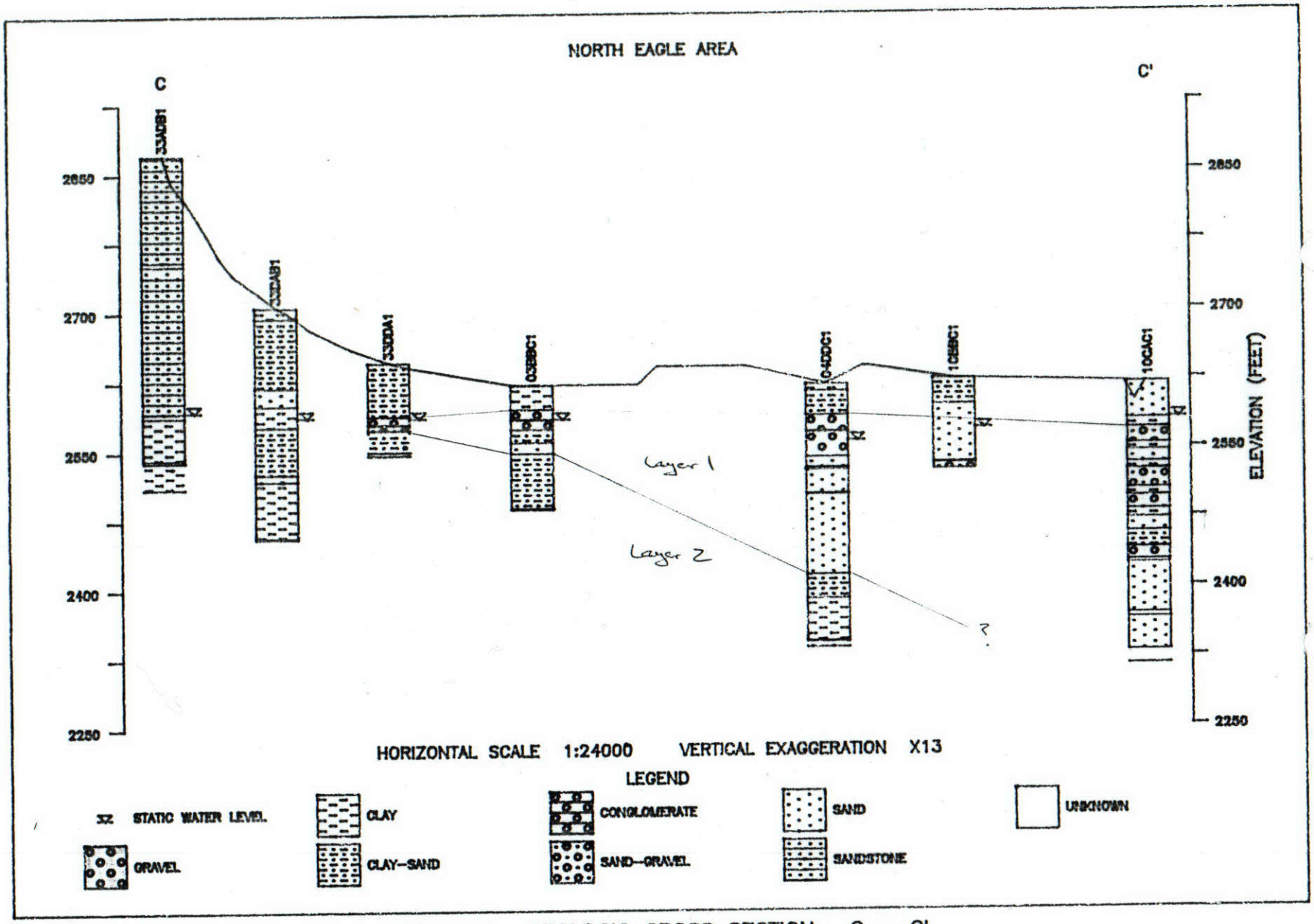


Figure 3. GEOLOGIC CROSS SECTION: C – C'

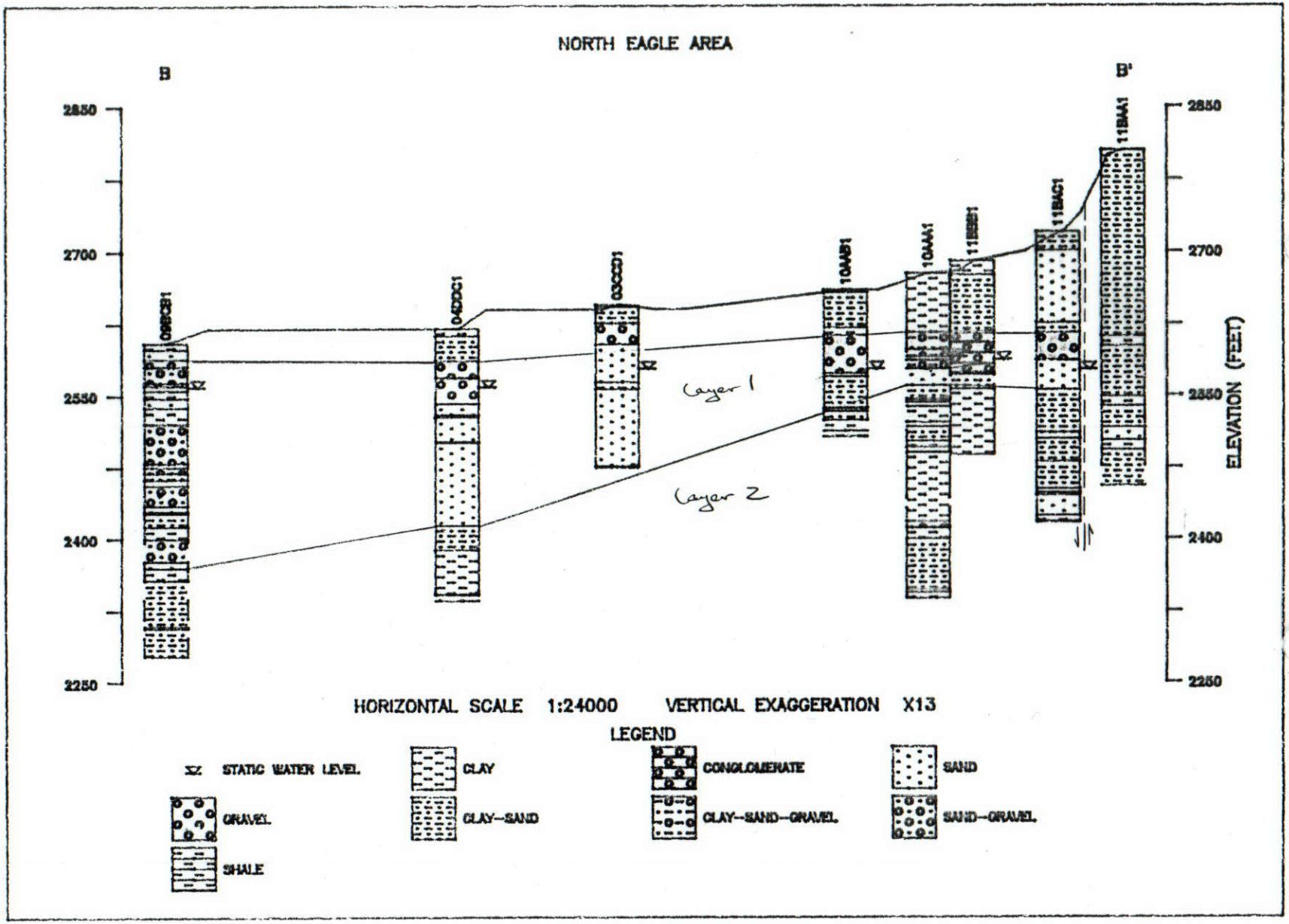


Figure 2. GEOLOGIC CROSS SECTION: B – B'

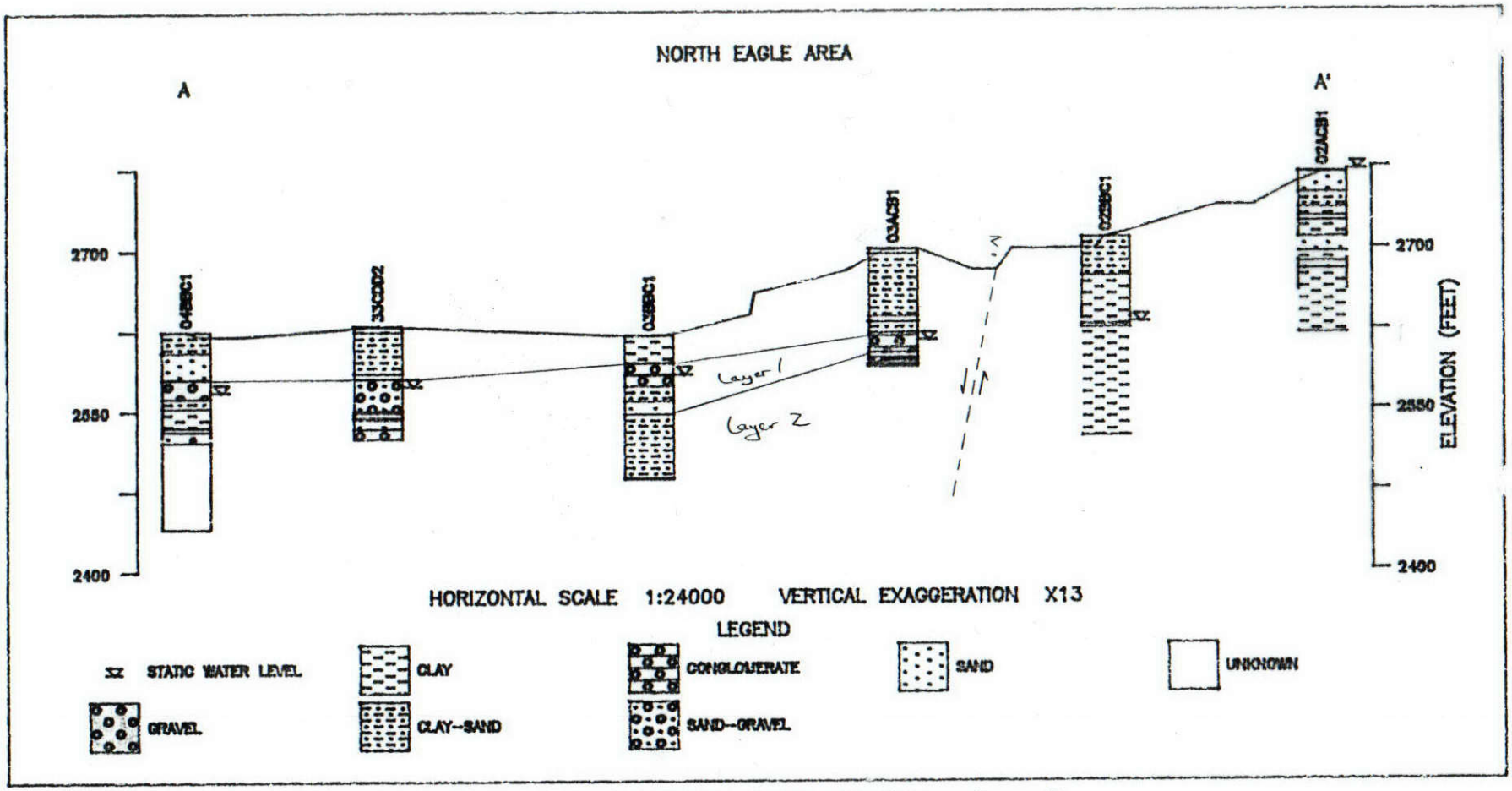
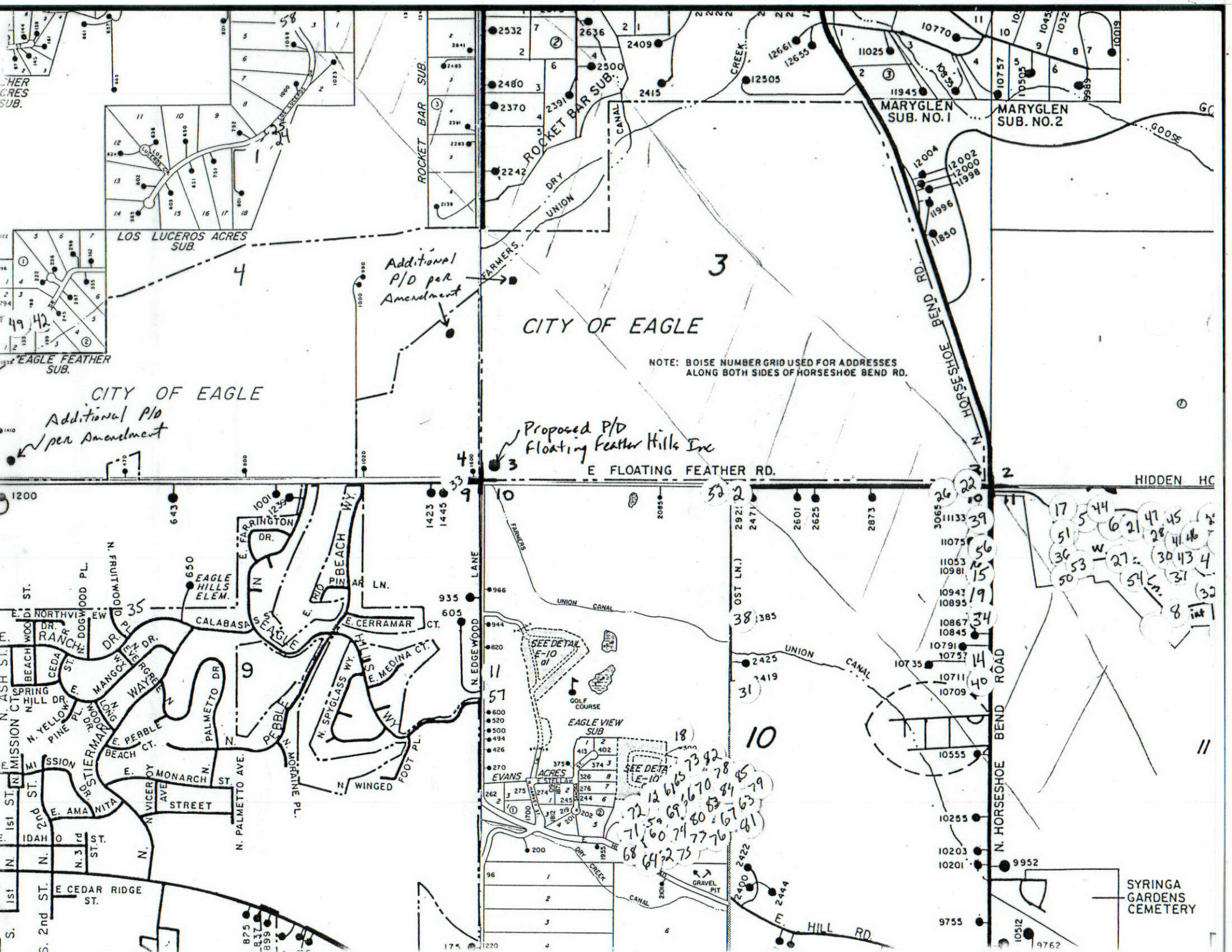


Figure 1. GEOLOGIC CROSS SECTION: A – A'


LOS LUCEROS ACRES SUB.
EAGLE FEATHER SUB.
ROCKET BAR SUB.
ROCKET BAR SUB.
MARYGLEN SUB. NO. 1
MARYGLEN SUB. NO. 2
CITY OF EAGLE
CITY OF EAGLE
CITY OF EAGLE
Additional P/D per Amendment
Additional P/D per Amendment
Proposed P/D Floating Feather Hills Inc
NOTE: BOISE NUMBER GRID USED FOR ADDRESSES ALONG BOTH SIDES OF HORSESHOE BEND RD.
E FLOATING FEATHER RD.
HORSESHOE BEND RD.
N. HORSESHOE BEND ROAD
E. HILL RD.
HIDDEN HC
GOOSE
FARMERS
DRY
UNION
CANAL
EAGLE HILLS ELEM.
E. FARRINGTON DR.
N. BEACH WY.
E. PINAR LN.
E. CERRAMAR CT.
E. MEDINA CT.
N. EAGLE RD.
N. EDGEWOOD LANE
N. SPYGLASS WY.
N. PEBBLE WY.
N. MORAINE PL.
N. WINGED FOOT PL.
N. PALMETTO AVE.
N. PALMETTO DR.
E. PEBBLE BEACH CT.
E. MONARCH ST.
E. AMANITA STREET
N. VICEROY AVE.
N. FRUITWOOD PL.
E. DOGWOOD PL.
E. NORTHVIEW DR.
E. CALABASA DR.
E. SPRING HILL DR.
N. YELLOW PINE PL.
E. MANGO WAY
E. EVERGREEN DR.
N. CEDAR ST.
N. BEACH ST.
N. ASH ST.
N. MISSION CT.
E. MISSION ST.
E. IDAHO ST.
E. 1st ST.
E. 2nd ST.
E. 3rd ST.
E CEDAR RIDGE ST.
EAGLE VIEW SUB
EVANS ACRES
STELLAR LANE
GOLF COURSE
SEE DETAIL E-10
SEE DETAIL E-10 a
GRAVEL PIT
SYRINGA GARDENS CEMETERY

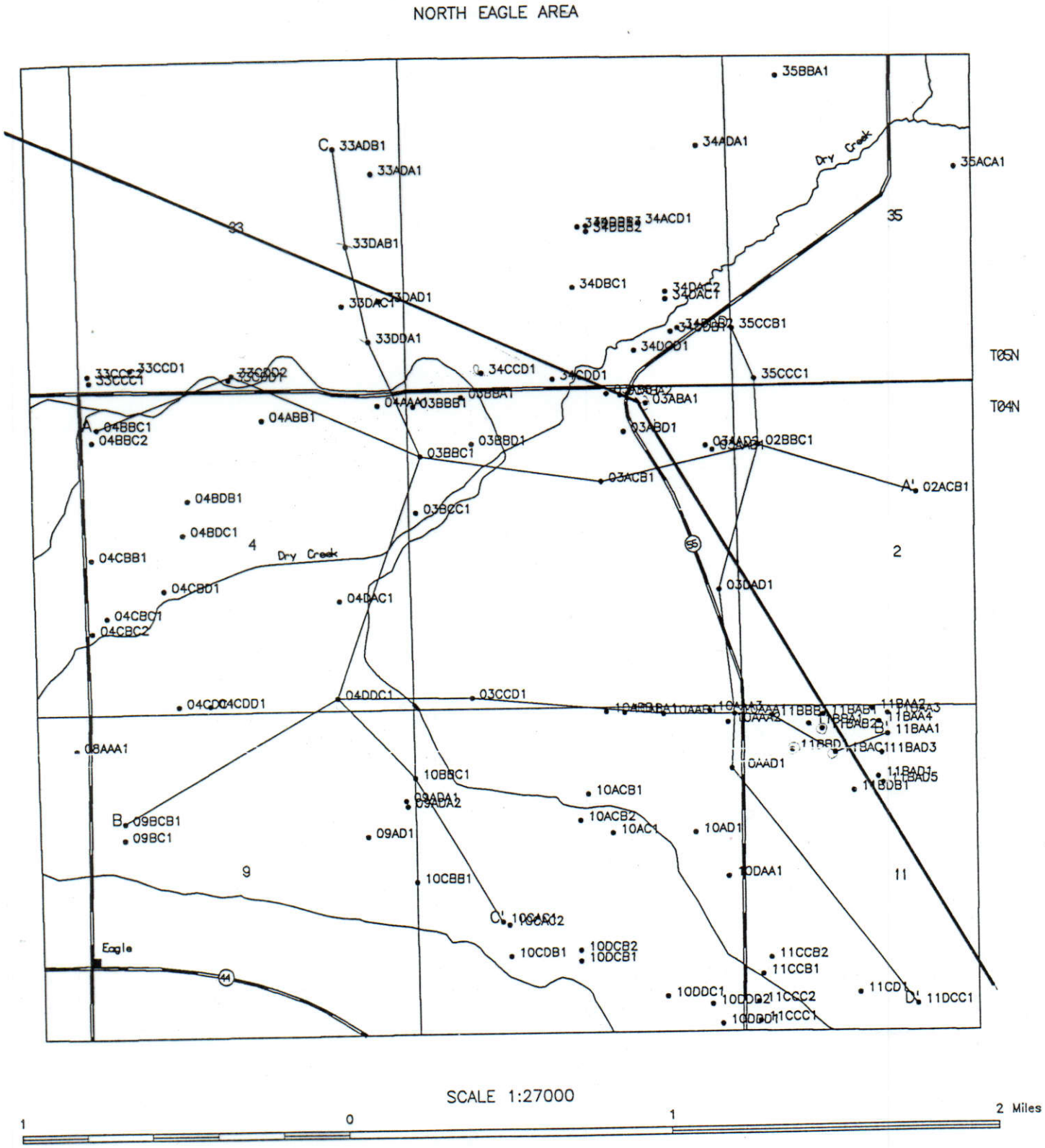
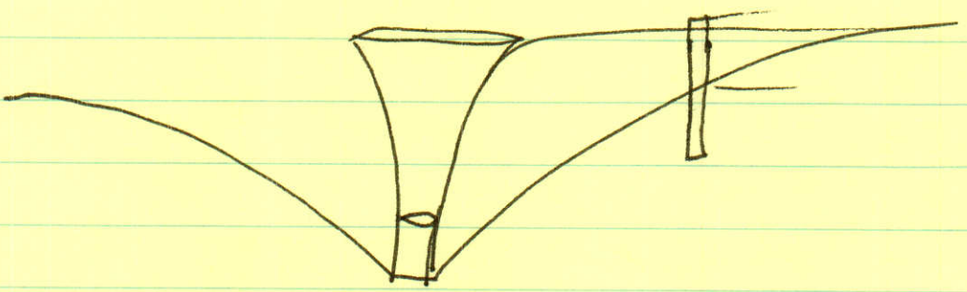


Figure 1. MAP SHOWING LOCATIONS OF INVENTORIED WELLS

7:30 – 9:30

Agenda

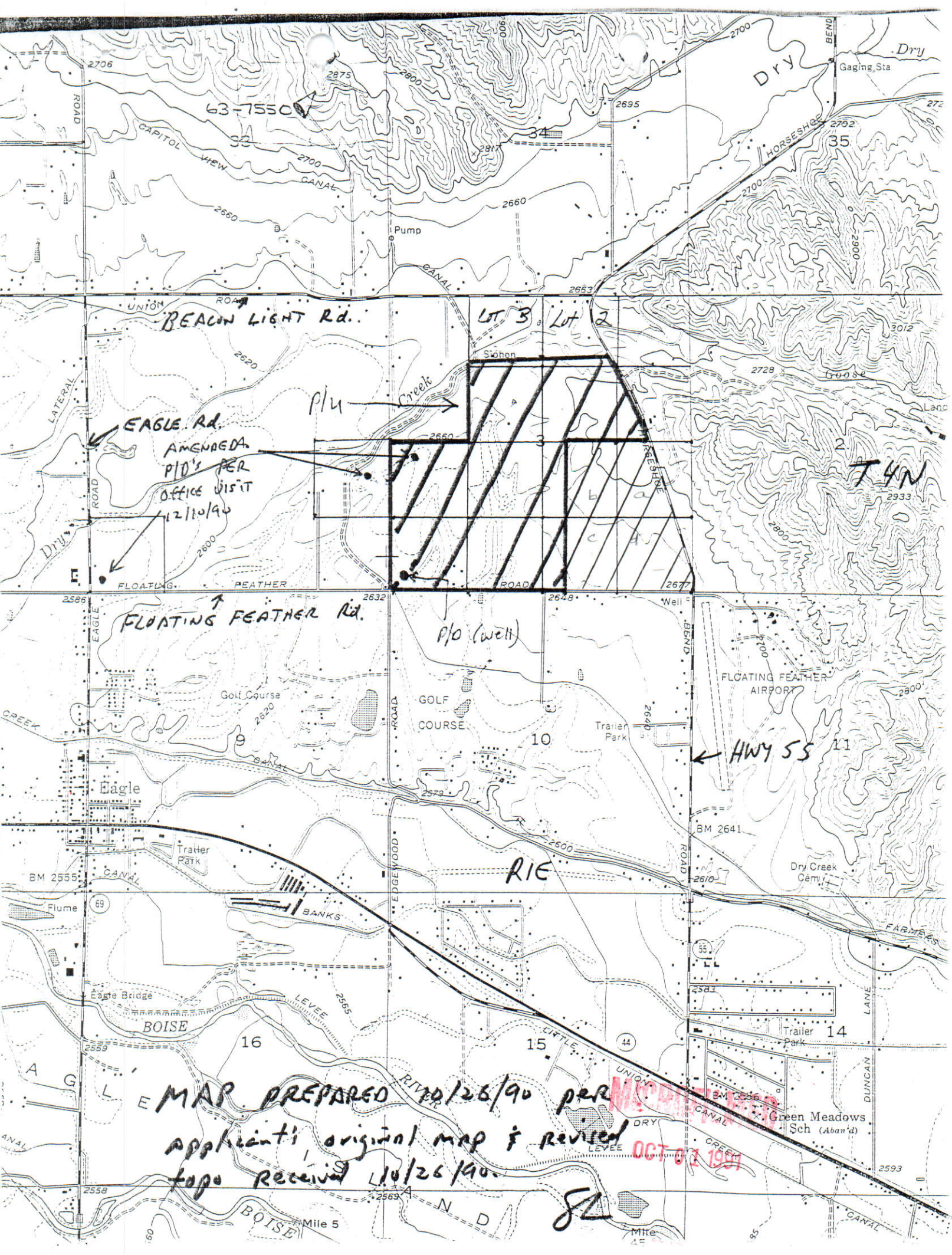
		Presentor
1.	Introduction & issues before IDWR	DRS
2.	Applicant - present proposal/project	App
3.	IDWR - Status - Data collected / Present interpretation - additional data needed.	Steve
	/ Spencer wood	
4.	App - Collect addl data	
5.	Comments from protestants other than concerns about water availability	
6.	Hearing to be set up for late spring, based	



Objectives

1. Educate pub re: app
2. " " " ag on dev side
3. " " " " Sage acres side.

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63-7550
BEACON LIGHT Rd.
LOT 3
LOT 2
EAGLE Rd.
AMENDED
P/O's PER
OFFICE VISIT
12/10/90
P/U
FLOATING FEATHER Rd.
P/O (well)
HWY 55
MAP PREPARED 10/26/90 PER
applicant's original map & revised
topo Received 10/26/90.
SL
OCT 01 1991

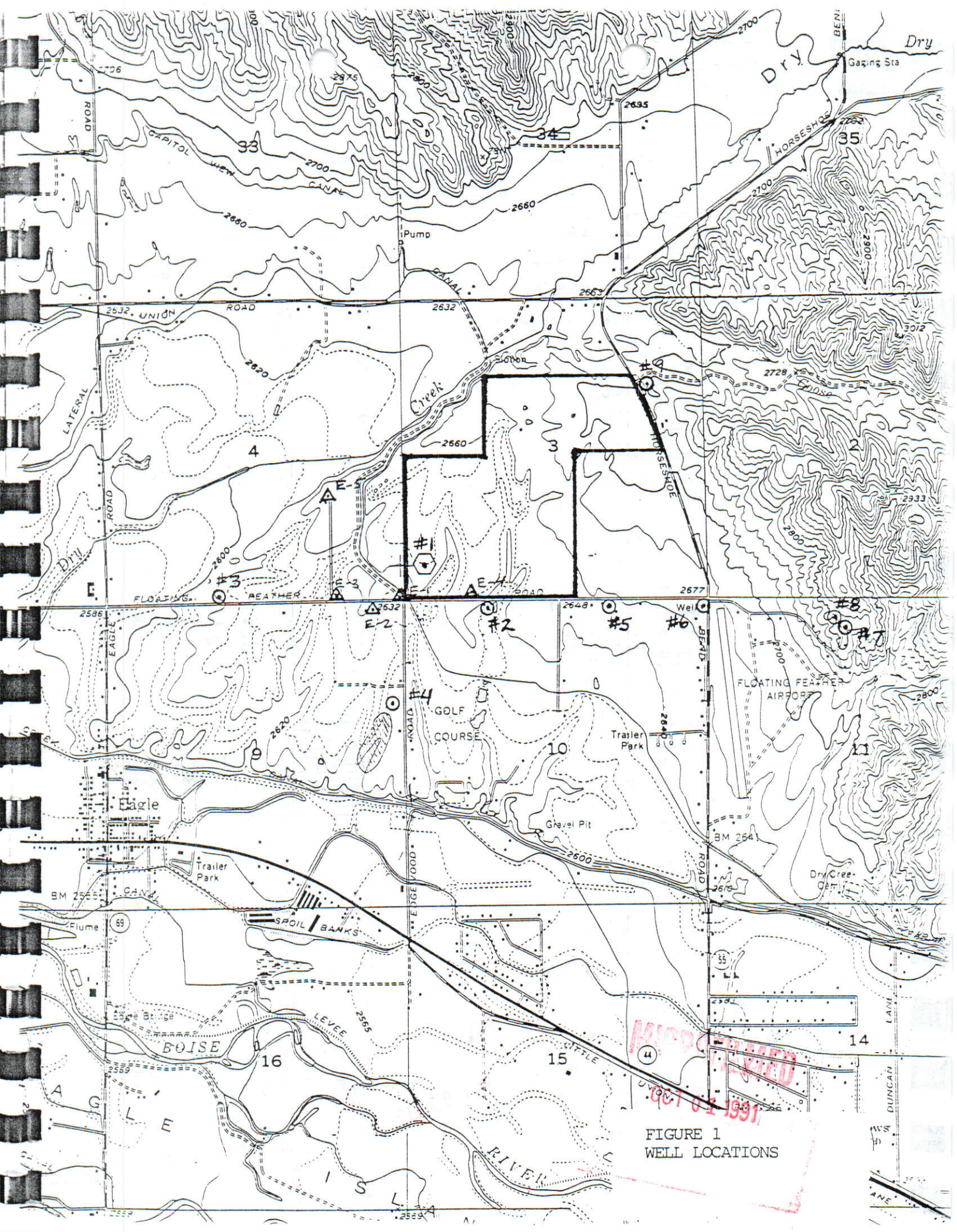


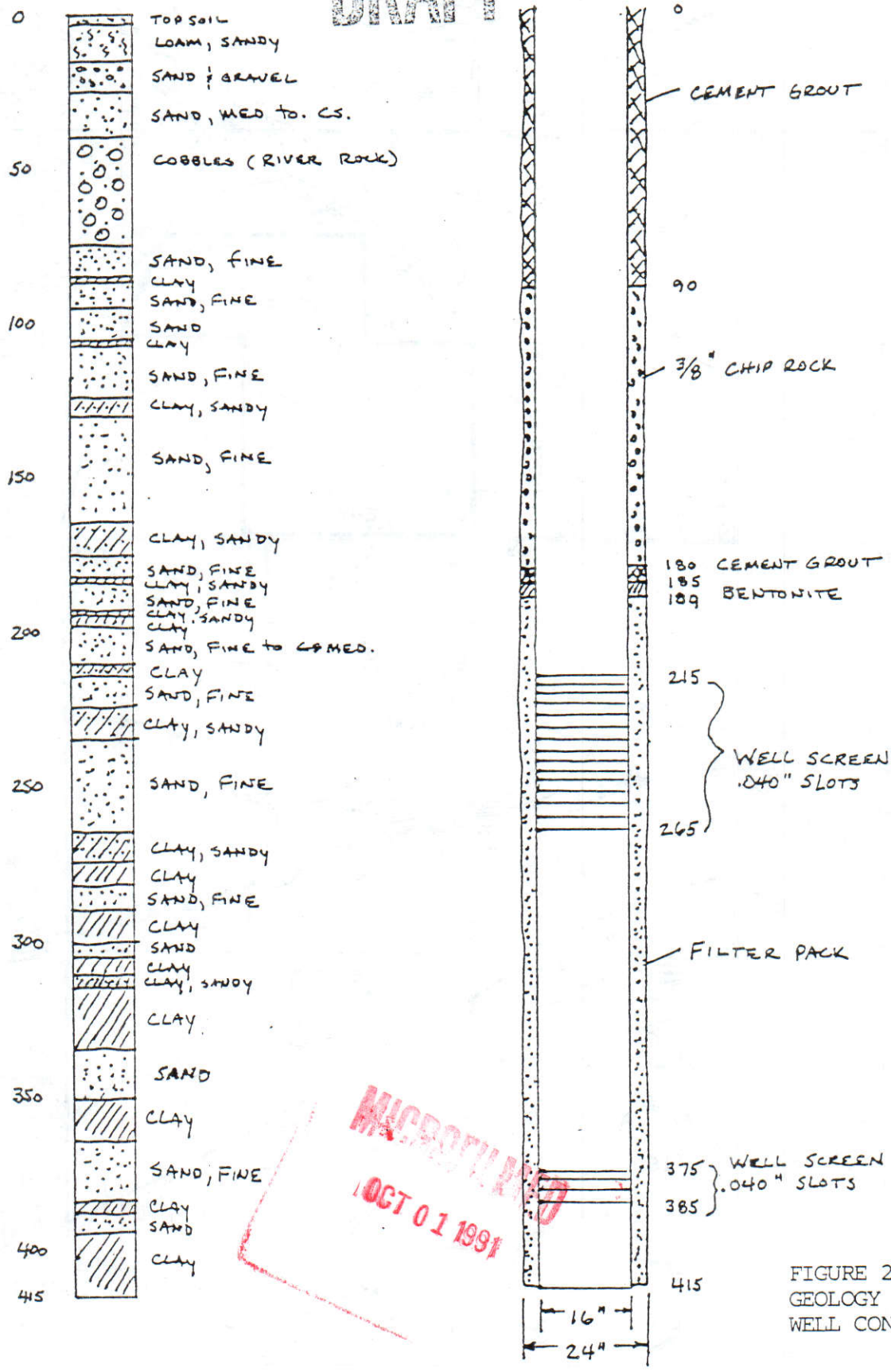
FIGURE 1
WELL LOCATIONS

SUBJECT PRELIMINARY GEOLOGIC LOG AND WELL CONSTRUCTION FLOATING FEATHER HILLS, INC. BY C. FEAST DATE 3/6/91 SHEET 1 OF 1 PROJECT NO. 801 31684.A1

GENERAL GEOLOGIC LOG

DRAFT

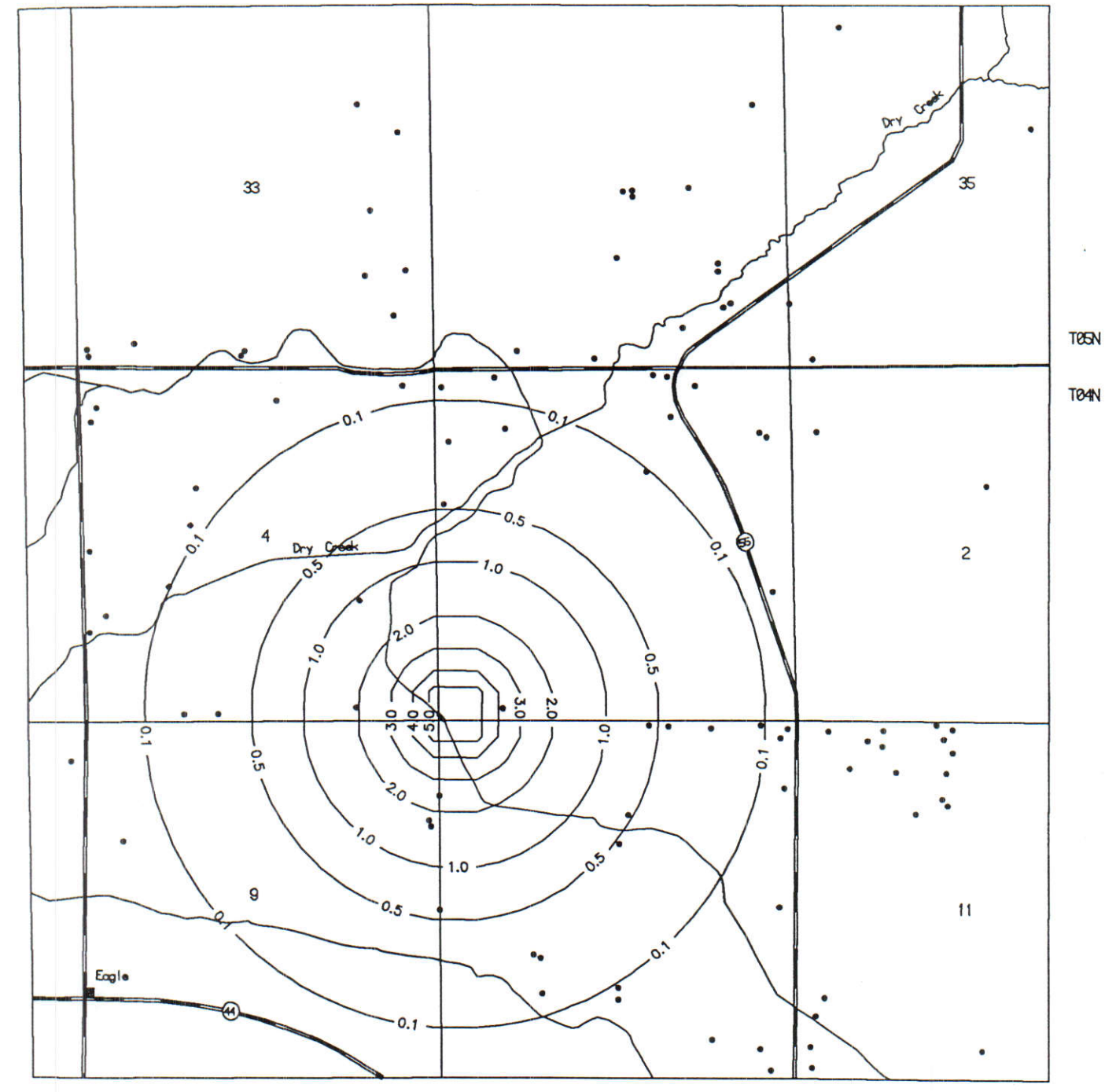
WELL CONSTRUCTION



MICROFILMED
OCT 01 1991

FIGURE 2
GEOLOGY AND
WELL CONSTRUCTION

NORTH EAGLE AREA



SCALE 1:27000

1 0 1 2 Miles

Figure 1. AQUIFER TEST SIMULATION: Q = 1000 gpm; t = 30 days; T = 10,000 sq ft/day; S = .1

RECEIVED
OCT 01 1991

NORTH EAGLE AREA

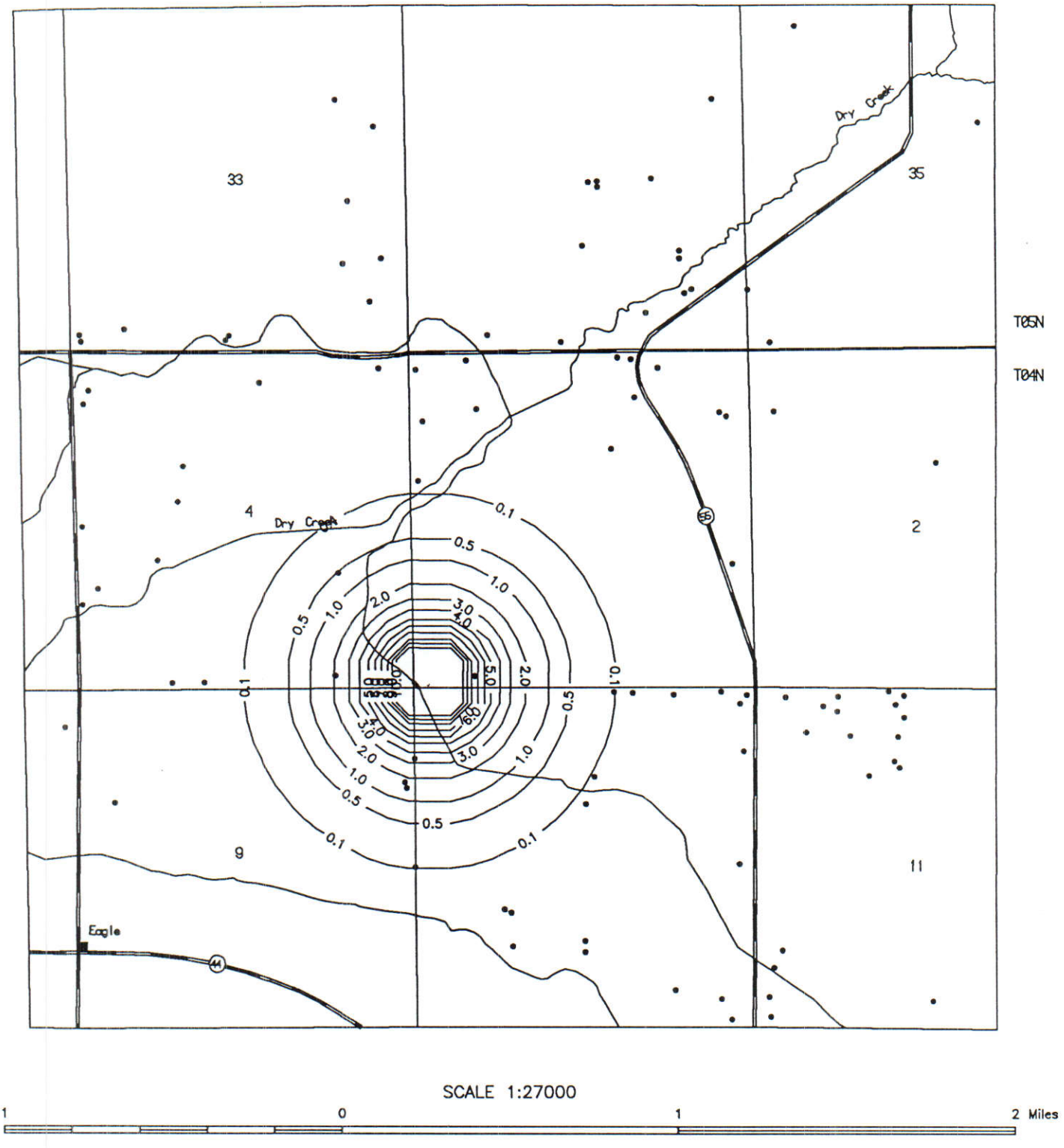


Figure 2. AQUIFER TEST SIMULATION: Q = 1000 gpm; t = 30 days; T = 2,500 sq ft/day; S = .1

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NORTH EAGLE AREA

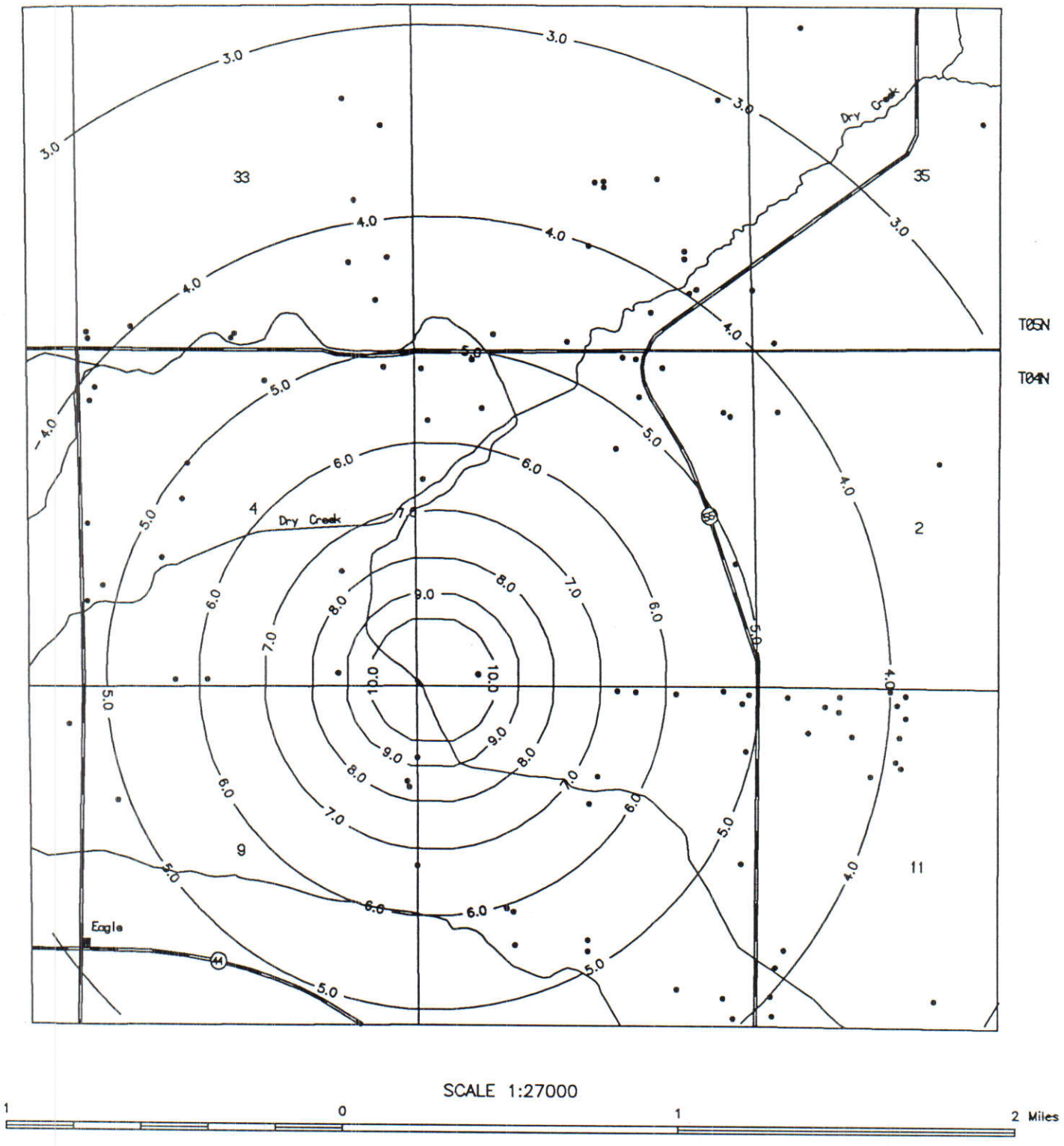


Figure 3. AQUIFER TEST SIMULATION: Q = 1000 gpm; t = 30 days; T = 10,000 sq ft/day; S = .001

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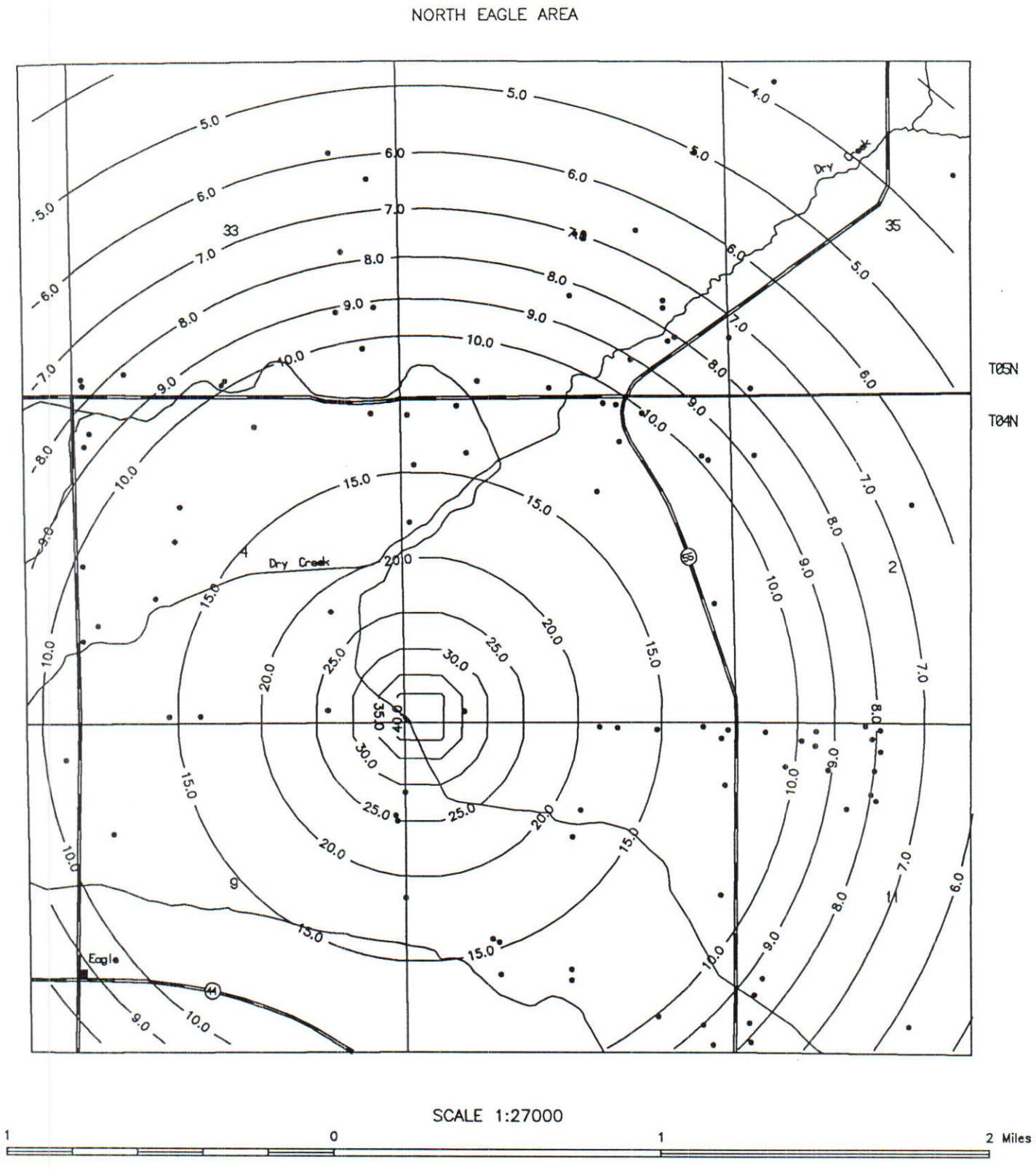


Figure 4. AQUIFER TEST SIMULATION: Q = 1000 gpm; t = 30 days; T = 2,500 sq ft/day; S = .001

OCT 01 1991
OCT 01 1991

NORTH EAGLE AREA

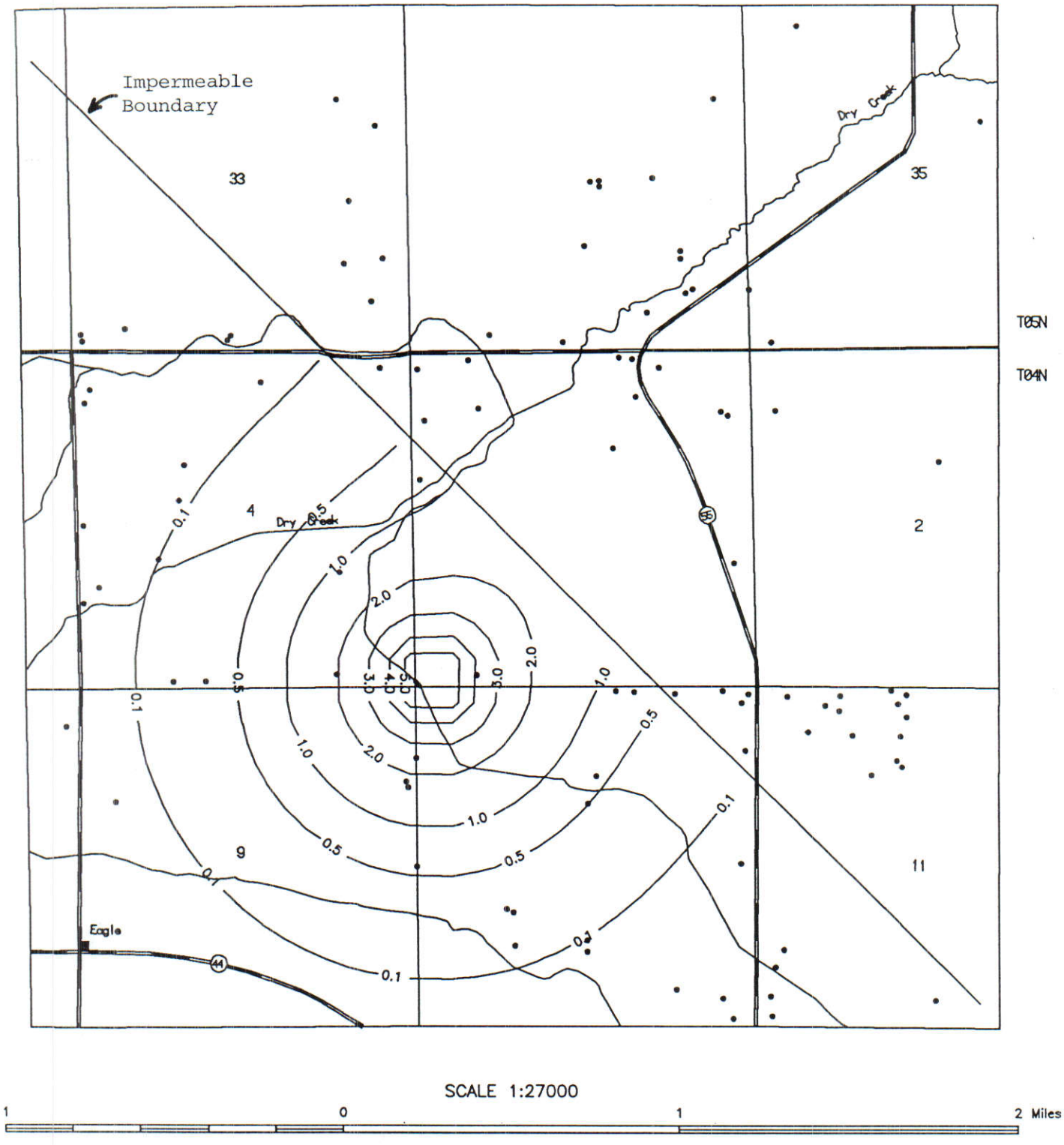


Figure 5. AQUIFER TEST SIMULATION: Q = 1000 gpm; t = 30 days; T = 10,000 sq ft/day; S = .1

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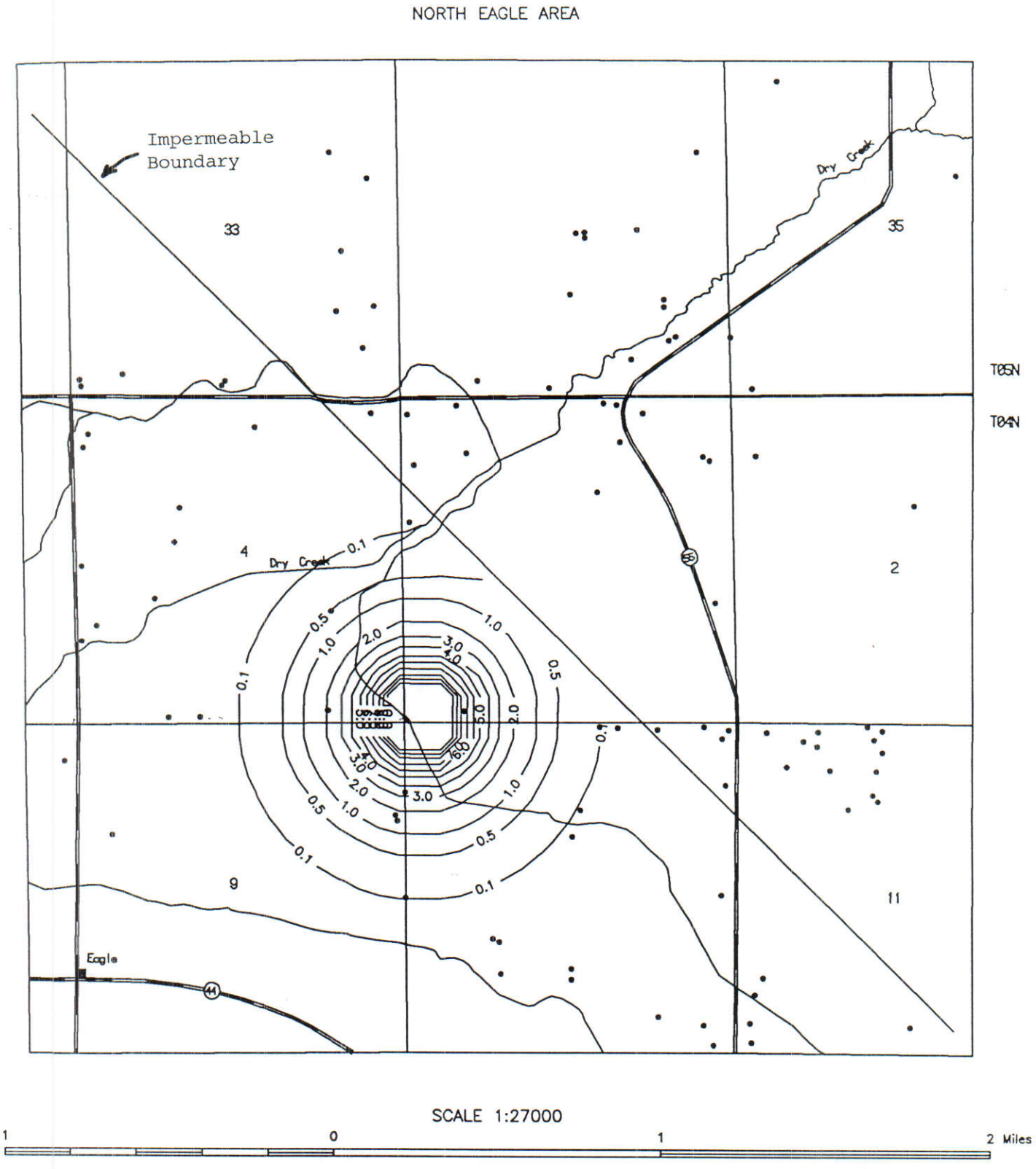
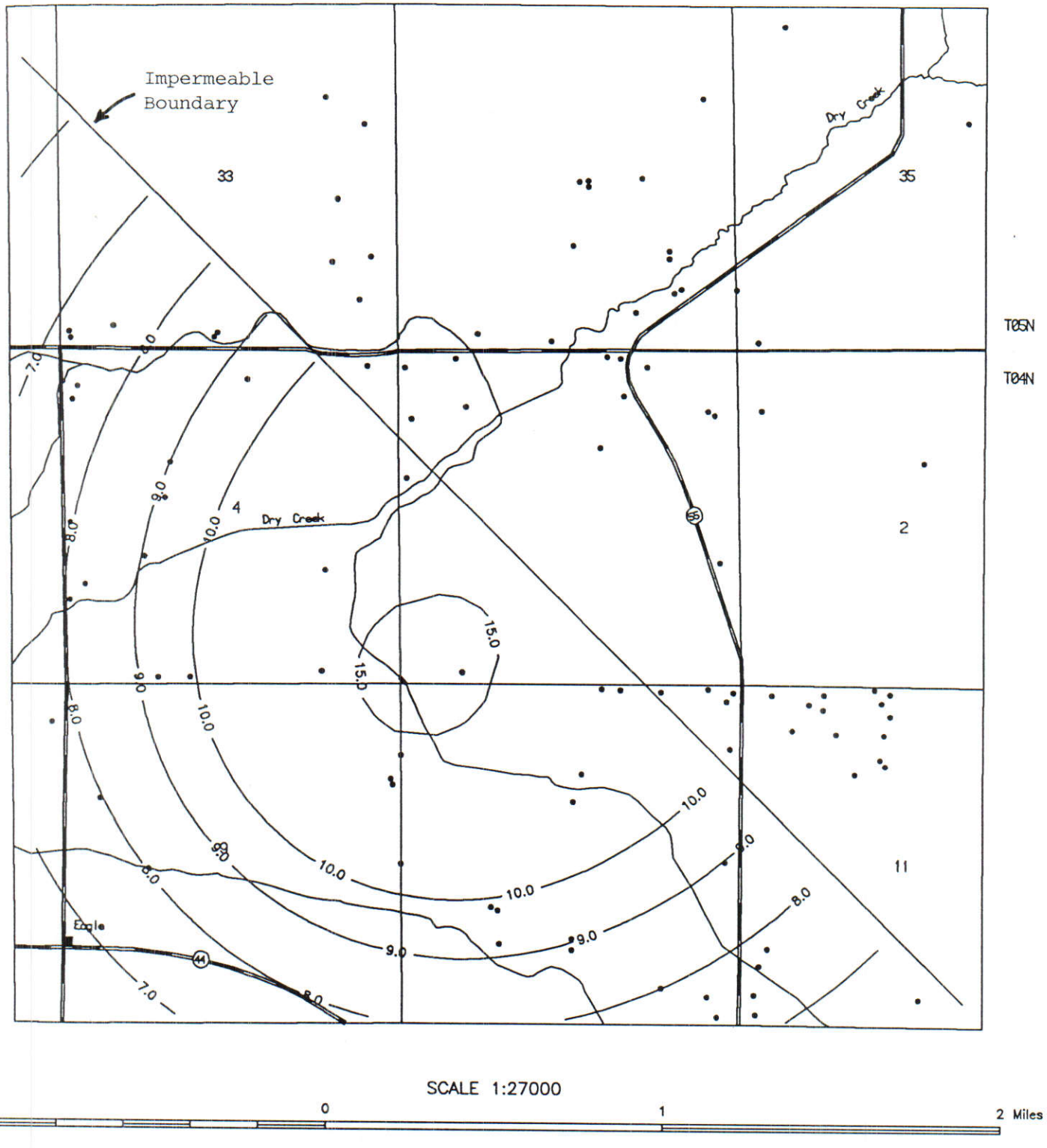


Figure 6. AQUIFER TEST SIMULATION: Q = 1000 gpm; t = 30 days; T = 2,500 sq ft/day; S = .1

NORTH EAGLE AREA



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Figure 7. AQUIFER TEST SIMULATION: Q = 1000 gpm; t = 30 days; T = 10,000 sq ft/day; S = .001

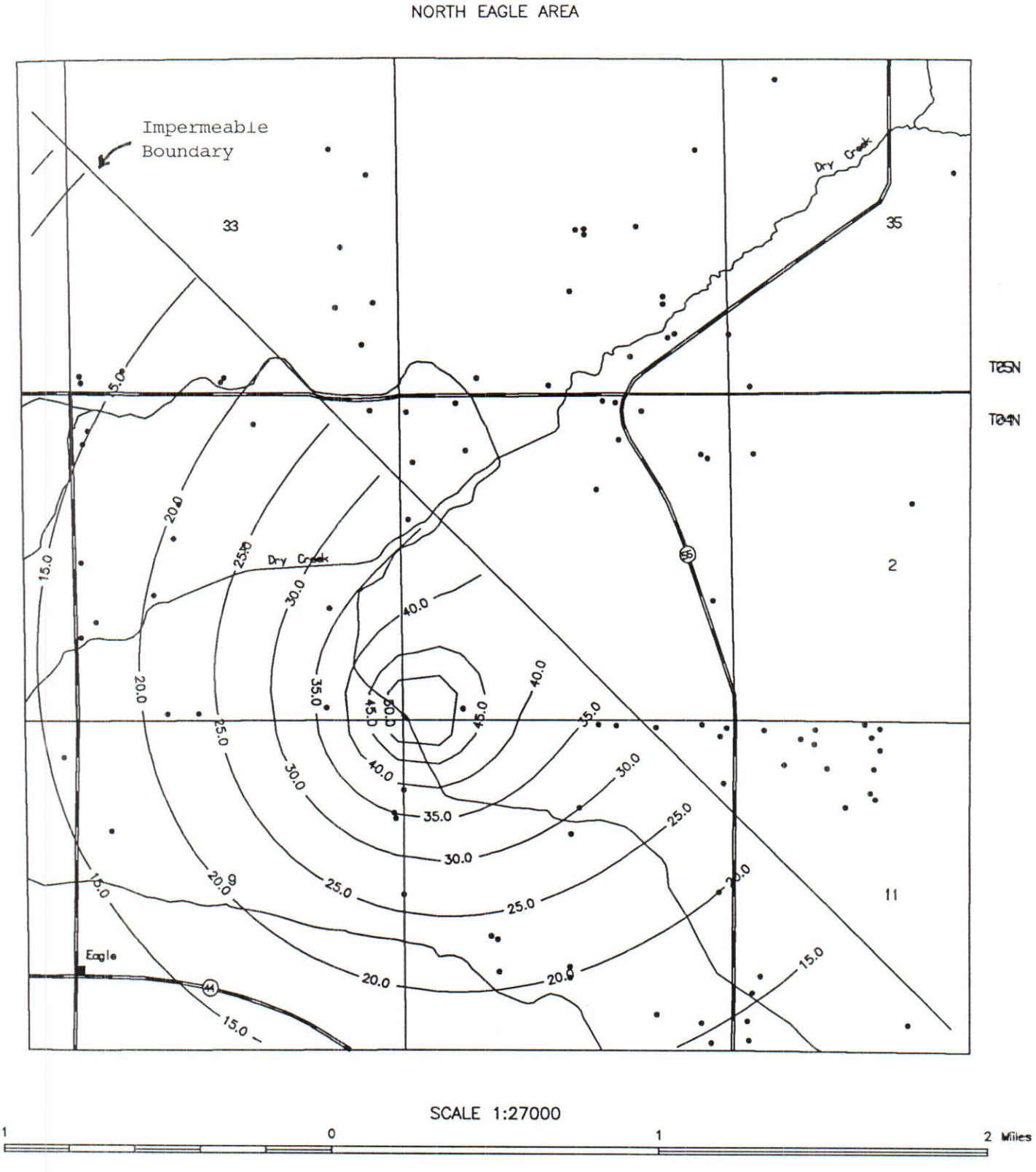


Figure 8. AQUIFER TEST SIMULATION: Q = 1000 gpm; t = 30 days; T = 2,500 sq ft/day; S = .001

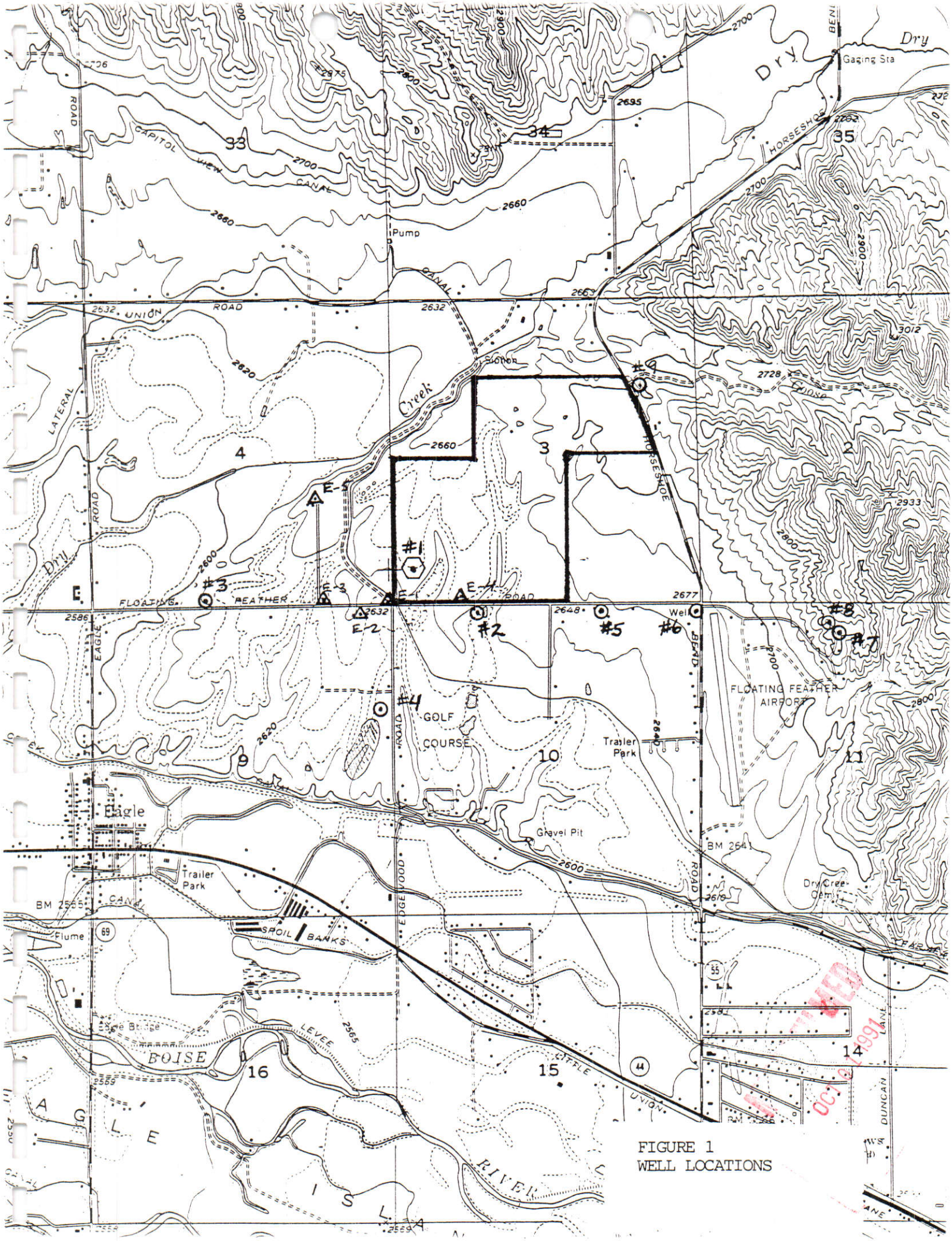


FIGURE 1
WELL LOCATIONS

SUBJECT PRELIMINARY GEOLOGIC LOG AND WELL CONSTRUCTION — C. FEAST — DATE 3/6/91
FLOATING FEATHER HILLS, INC. — SHEET 1 OF 1 — PROJECT NO. 801 31684.A1

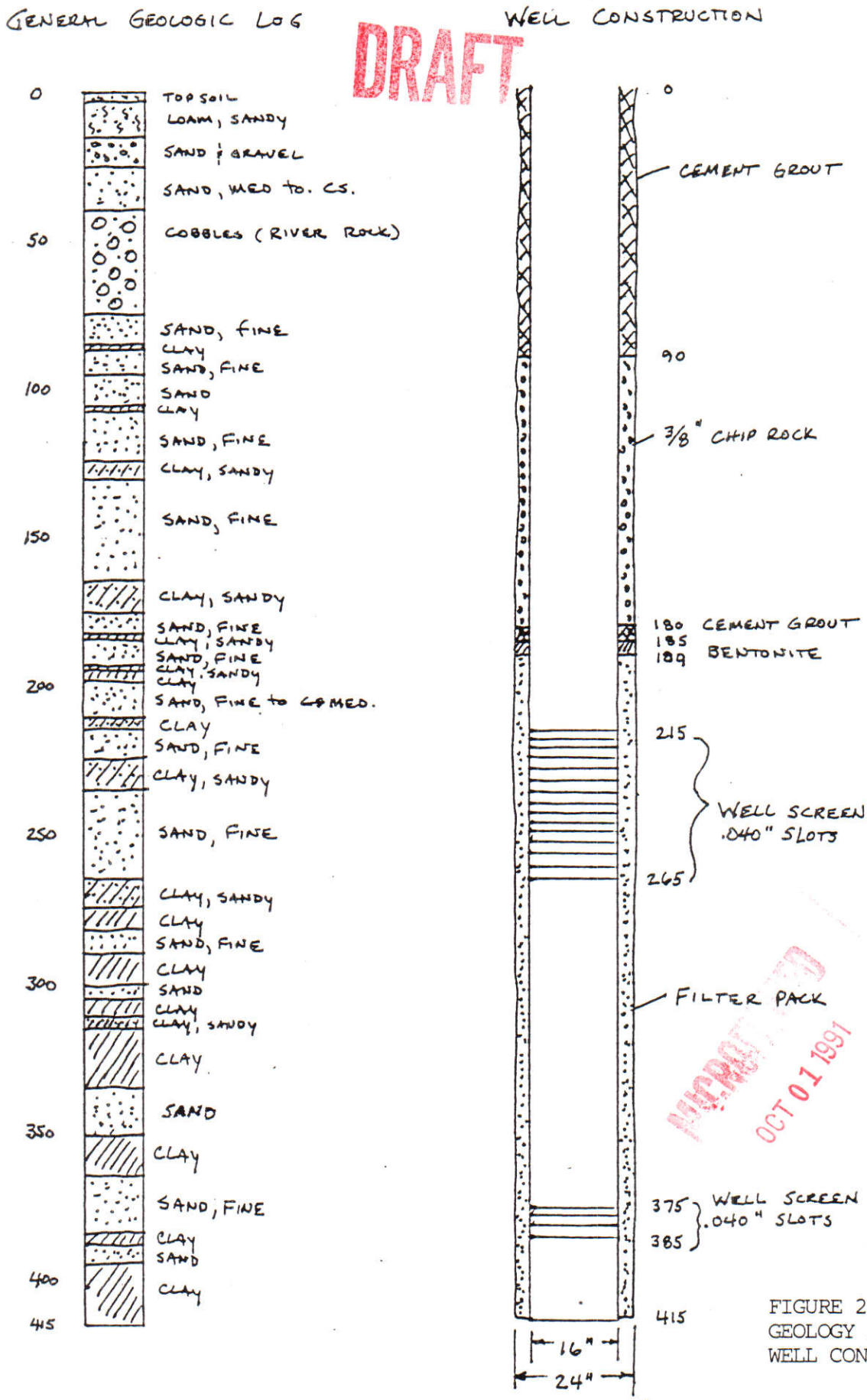
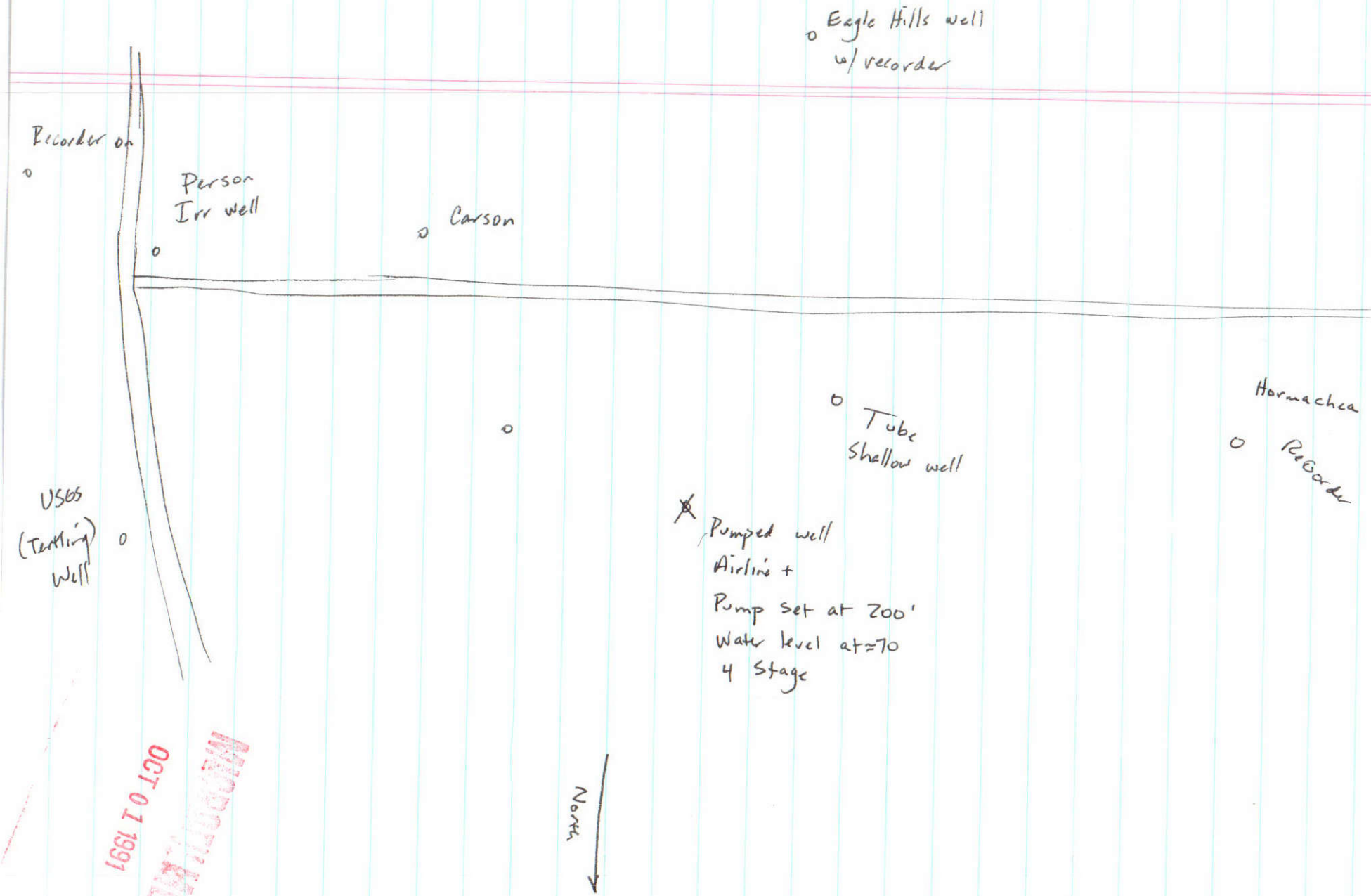


FIGURE 2
GEOLOGY AND
WELL CONSTRUCTION

OCT 01 1991



OCT 01 1991
MONTEREY

63-11413

Photos taken by D. Tuthill during test.

Floating Feather Hills, Inc.

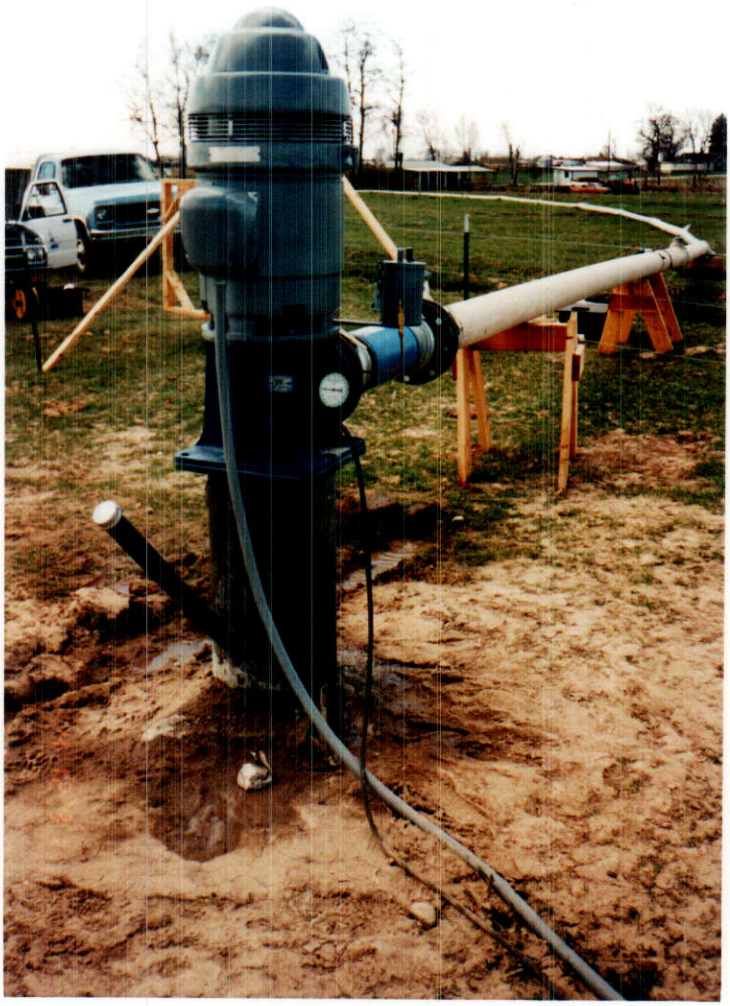
1. Test pump, flow meas. device.

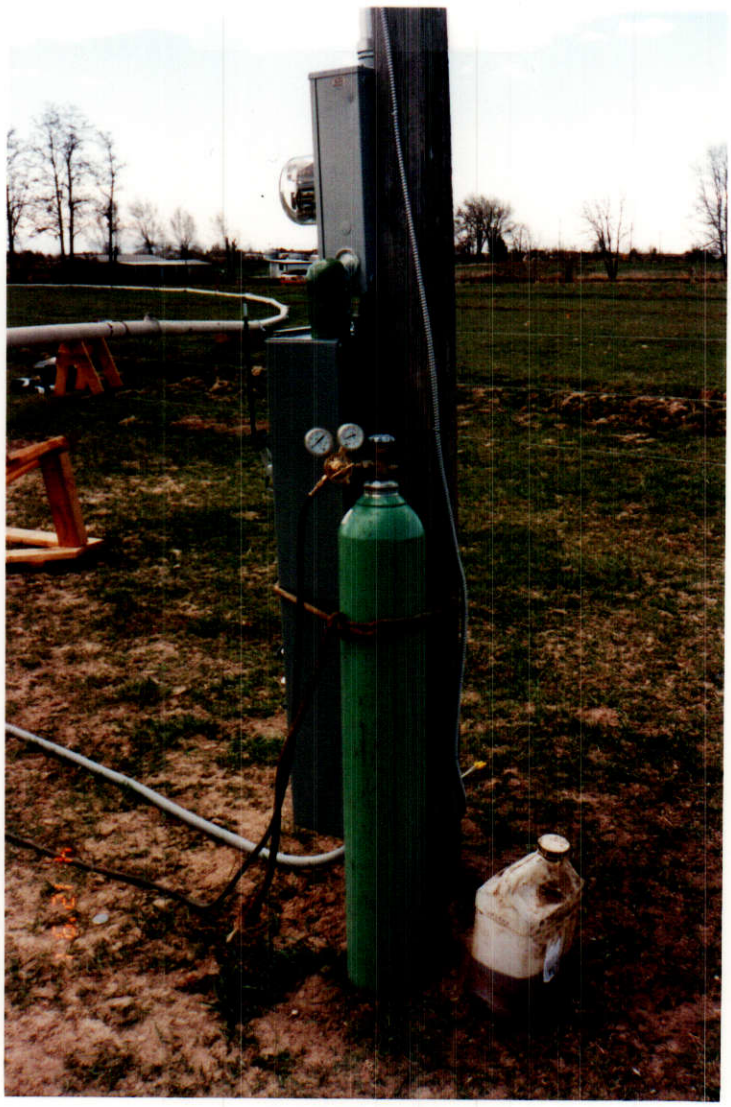
2. Same site, looking south.

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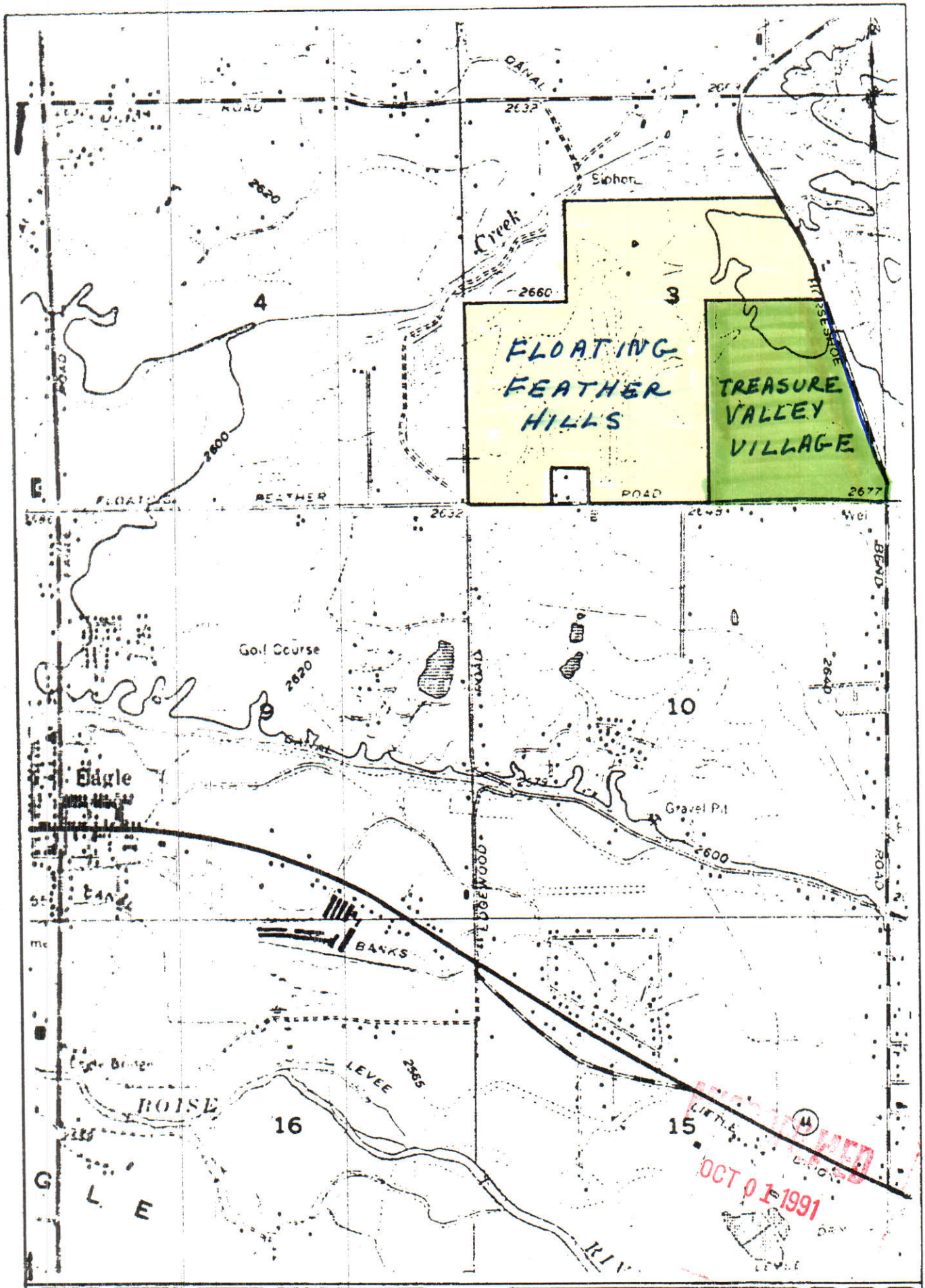


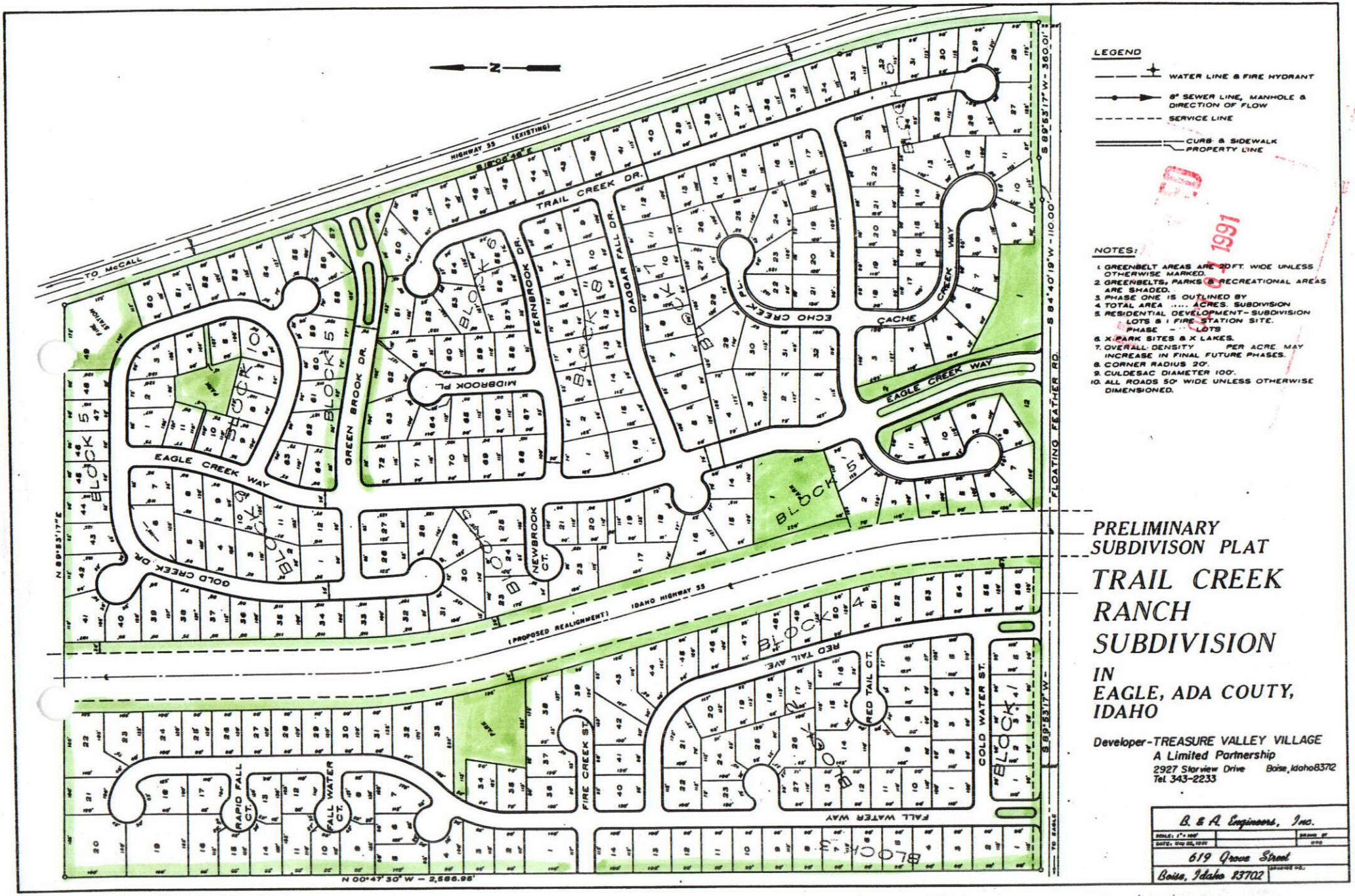


3. Close up showing pressure gauge with depth to water readout.

4. Air tank for pressure gauge.

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OCT 01 1991


FLOATING FEATHER HILLS
TREASURE VALLEY VILLAGE
Golf Course
Eagle
Gravel Pit
BANKS
BOISE
LEVEE
16
15
10
4
3
2660
2677
2632
2620
2600
2565
2640
ROAD
CANAL
Creek
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OCT 01 1991



LEGEND

- WATER LINE & FIRE HYDRANT
- 8" SEWER LINE, MANHOLE & DIRECTION OF FLOW
- SERVICE LINE
- CURB & SIDEWALK
- PROPERTY LINE

NOTES:

1. GREENBELT AREAS ARE 30 FT. WIDE UNLESS OTHERWISE MARKED.
2. GREENBELTS, PARKS & RECREATIONAL AREAS ARE SHADED.
3. PHASE ONE IS OUTLINED BY
4. TOTAL AREA ..... ACRES. SUBDIVISION
5. RESIDENTIAL DEVELOPMENT - SUBDIVISION LOTS & 1 FIRE STATION SITE.
   PHASE - LOTS
6. X PARK SITES & X LAKES.
7. OVERALL DENSITY PER ACRE MAY INCREASE IN FINAL FUTURE PHASES.
8. CORNER RADIUS 20'.
9. CULDESAC DIAMETER 100'.
10. ALL ROADS 50' WIDE UNLESS OTHERWISE DIMENSIONED.

PRELIMINARY SUBDIVISON PLAT

TRAIL CREEK RANCH SUBDIVISION

IN EAGLE, ADA COUTY, IDAHO

Developer - TREASURE VALLEY VILLAGE
A Limited Partnership
2927 Storview Drive Boise, Idaho 83712
Tel. 343-2233

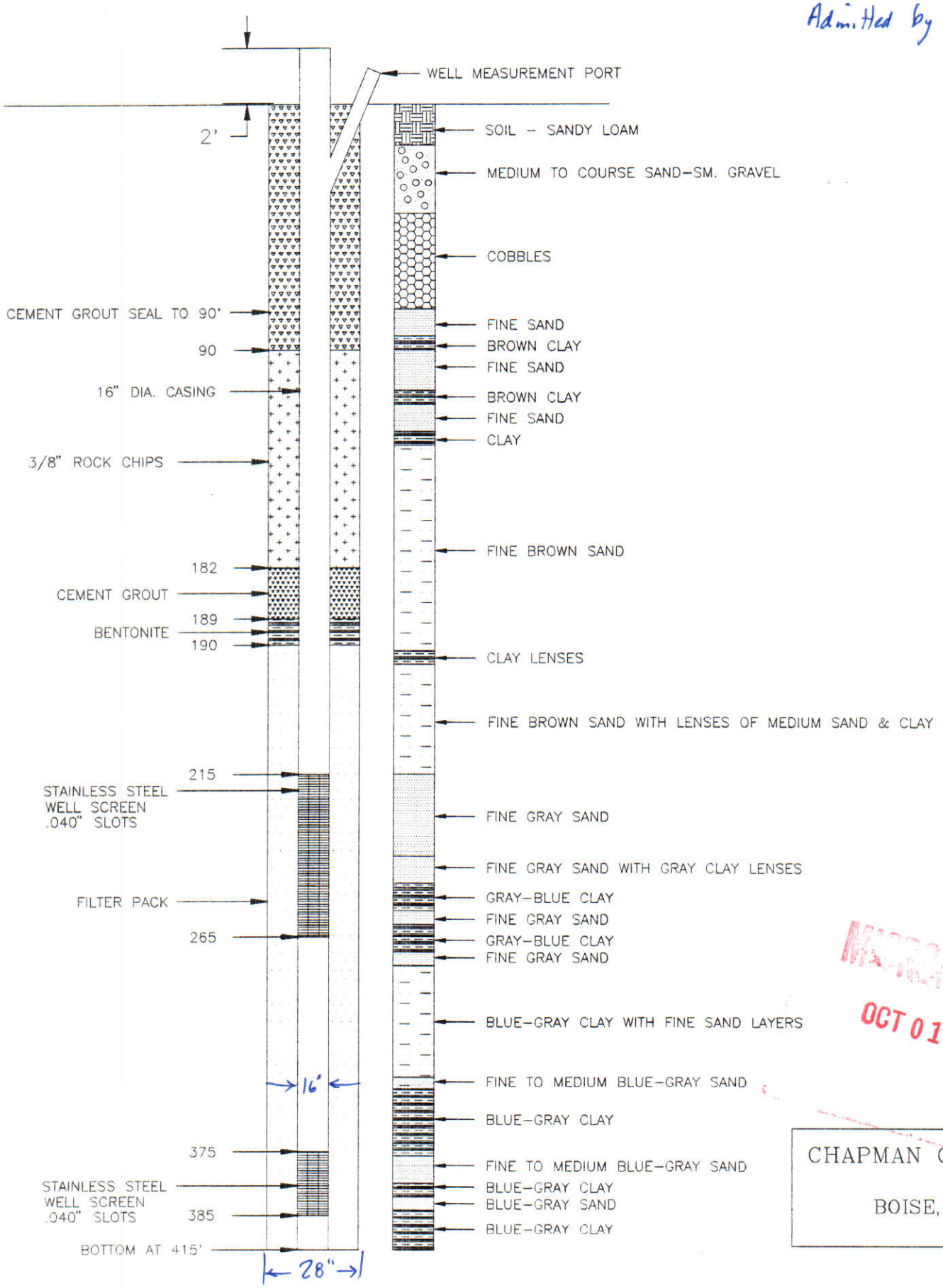
B. & A. Engineers, Inc.
619 Grove Street
Boise, Idaho 83702

PRELIMINARY PLAT
FLOATING FEATHER HILLS
A PORTION OF SECTION 3
T4N R1E BM ADA COUNTY IDAHO
OWNER/DEVELOPER
FLOATING FEATHER HILLS INC.
C/O BRYCE PETERSON
2417 BANK DRIVE SUITE 101
BOISE, IDAHO, 83705
343-8500
ENGINEER
ROYLANCE & ASSOCIATES P.A.
C/O DAVE ROYLANCE
4227 EMERALD
BOISE, IDAHO 83706
336-7390
NOTES
1 SEWER SERVICE WILL BE PROVIDED BY A CENTRAL SEWER SYSTEM. ALL SEWER LINE EXTENSIONS SHALL BE APPROVED BY THE EAGLE SEWER DISTRICT PRIOR TO CONSTRUCTION.
2 DOMESTIC WATER AND WATER FOR FIRE PROTECTION WILL BE PROVIDED BY A CENTRAL WATER SYSTEM. ALL PLANS AND SPECIFICATIONS SHALL BE APPROVED BY THE IDAHO DEPARTMENT OF HEALTH AND WELFARE, DIVISION OF ENVIRONMENT PRIOR TO CONSTRUCTION
3 ALL ROAD CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE ADA COUNTY HIGHWAY DISTRICT.
PROJECT DATA
LAND USE ACREAGE DWELLING UNITS DENSITY
A SFD ESTATE LOTS
B LUXURY LOTS
C SFD LOW-MOD
D SFD MOD
E SFD-MOD
PROPOSED ELEMENTARY SCHOOL SITE 10 ACRES
CLUSTER HOUSING
CLUSTER HOUSING
LANDSCAPE BERM
FLOATING FEATHER ROAD
PARK
RETENTION AREA
OPEN AREA
FUTURE ACCESS
FUTURE ACCESS
PROPOSED REALIGNMENT OF HIGHWAY 55
EXISTING HIGHWAY 55
FUTURE MOBILE HOME AREA
SCALE IN FEET
OCT 01 1991
PRELIMINARY PLAT
FLOATING FEATHER HILLS
ROYLANCE & ASSOCIATES P.A.
Engineers Surveyors Landplanners
4227 Emerald Boise Idaho 83706 (208) 336-7390
JOB NUMBER 9003-997
SHEET 1 OF 1
DRAWN BY KDS
CHECKED BY MM
DATE 11/22/91
SCALE NONE
PLOT DATE N/A
9003RE.DWG

FLOATING FEATHER HILLS, INC.
WELL CONSTRUCTION DETAILS

#5

Applicant's Exhibit No. 5
Admitted by LGS 6/12/91



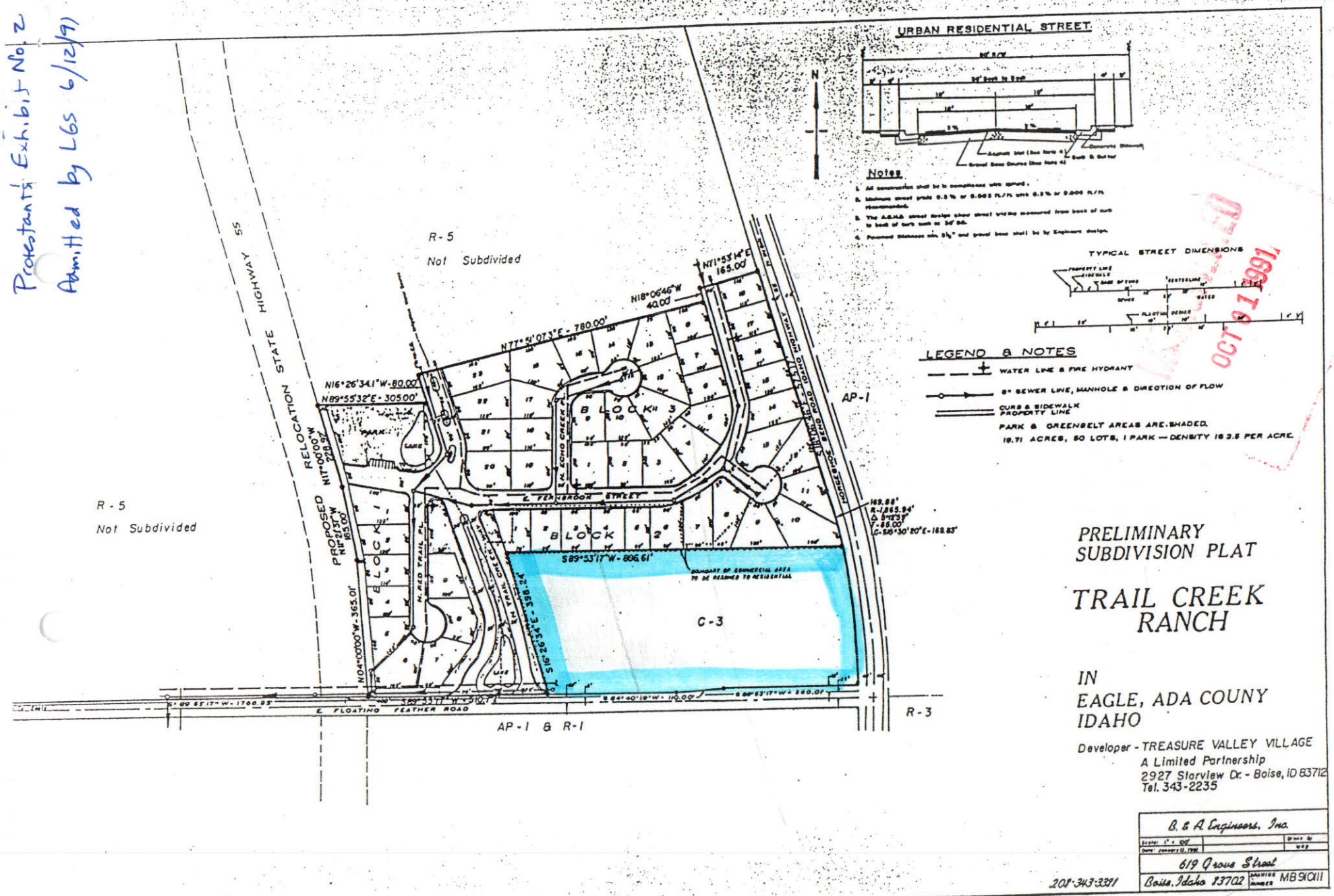
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OCT 01 1991

CHAPMAN CONSULTING

BOISE, IDAHO

* Feb. 4, P&Z Meeting Eagle 7:30 P.M.

Protestants' Exh. b, 1-No. 2
Admitted by LGS 6/12/91



PRELIMINARY
SUBDIVISION PLAT

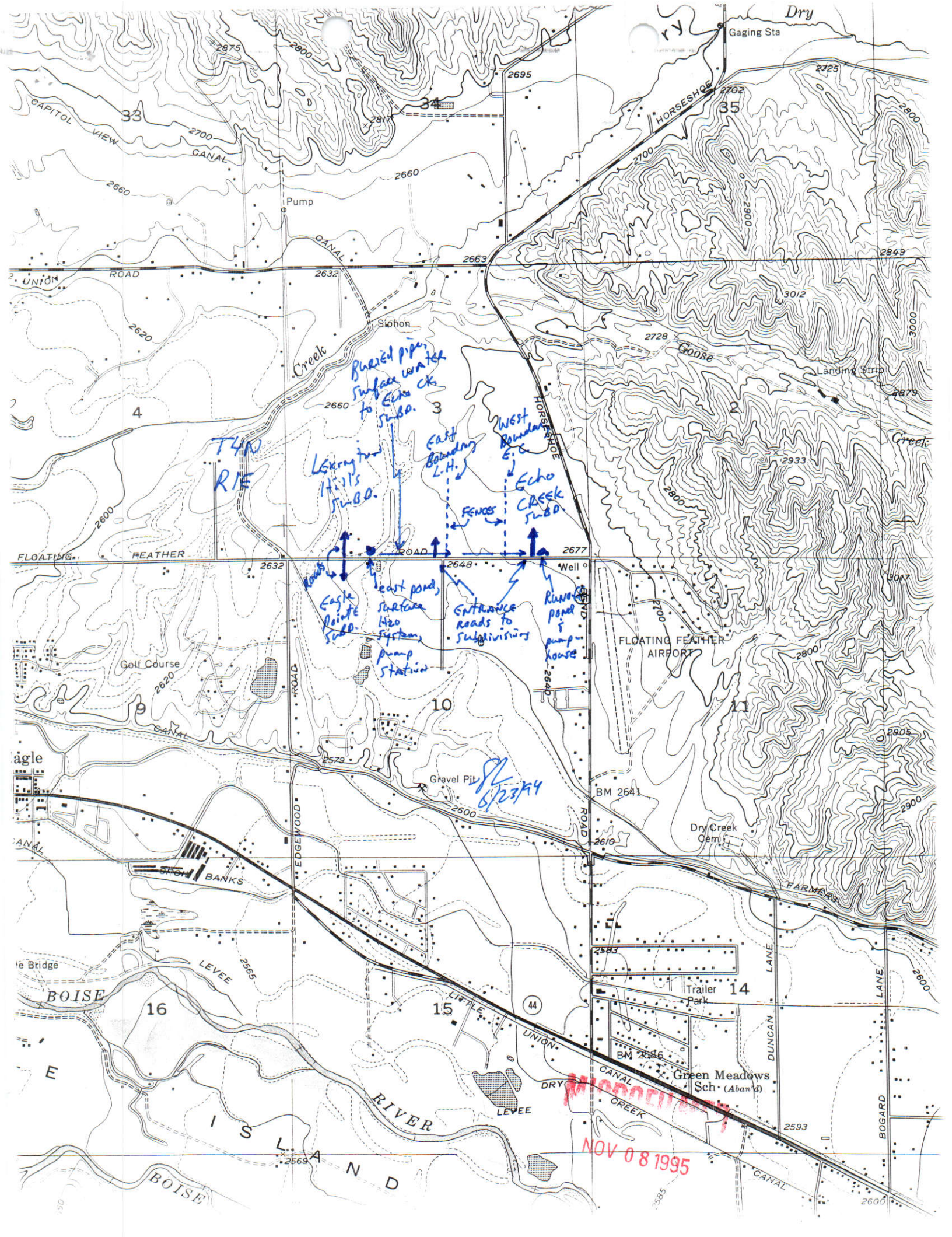
TRAIL CREEK RANCH

IN
EAGLE, ADA COUNY
IDAHO

Developer - TREASURE VALLEY VILLAGE
A Limited Partnership
2927 Starview Dr. - Boise, ID 83712
Tel. 343-2235

B. & A. Engineers, Inc.
619 Grove Street
Boise, Idaho 83702
201-343-3391
DRAWING NUMBER MB91011

OCT 01 1991


Dry
Gaging Sta
CAPITOL VIEW CANAL
HORSESHOE
UNION ROAD
Pump
Siphon
Creek
Goose
Landing Strip
Creek
Buried pipe, surface water to Echo Ck Sub.
Lexington Hills Sub.
East Boundary L.H.
West Boundary E.C.
Echo Creek Sub.
FENCES
ROAD
FLOATING FEATHER
Well
Roads
Eagle Pointe Sub.
East pond, surface H2O system, pump station
ENTRANCE roads to subdivisions
Pond & pump house
FLOATING FEATHER AIRPORT
Golf Course
EDGEWOOD ROAD
CANAL
Gravel Pit
6/23/94
BM 2641
Dry Creek Cem.
FARMERS
SIPHON
BANKS
LEVEE
BOISE
RIVER
ISLAND
LITTLE UNION CANAL
DRY CREEK
LEVEE
Trailer Park
Green Meadows Sch. (Aban'd)
DUNCAN LANE
BOGARD
NOV 08 1995

Permit 63-11413 Photos taken 6/23/94 Pg 1 of 2

VIEW North of back yard at 3041 E. Red Tail DR. in Echo Ck. Sub.

VALVE(S) for surface water, buried line to hose connection.



PHOTO ONE-

>

VIEW EAST of Runoff catchment pond & pumphouse to Recirculate water to surface water distribution system.



PHOTO TWO-

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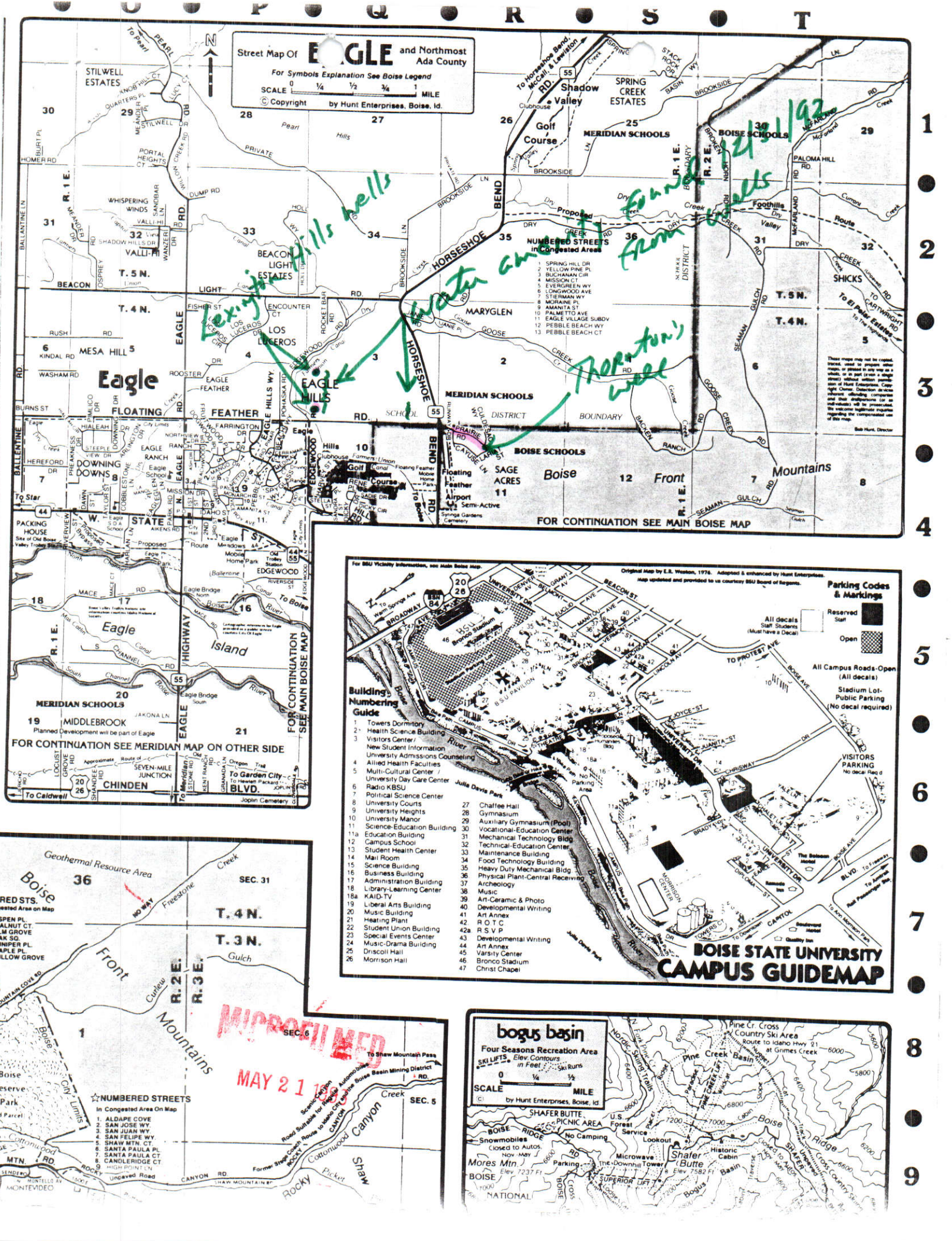


PHOTO THREE-

NE view of surface water pond & pump station in Lexington Hills subd. Water piped from here via buried main to surface water distribution system in Echo Ck. subd.

PHOTO FOUR-

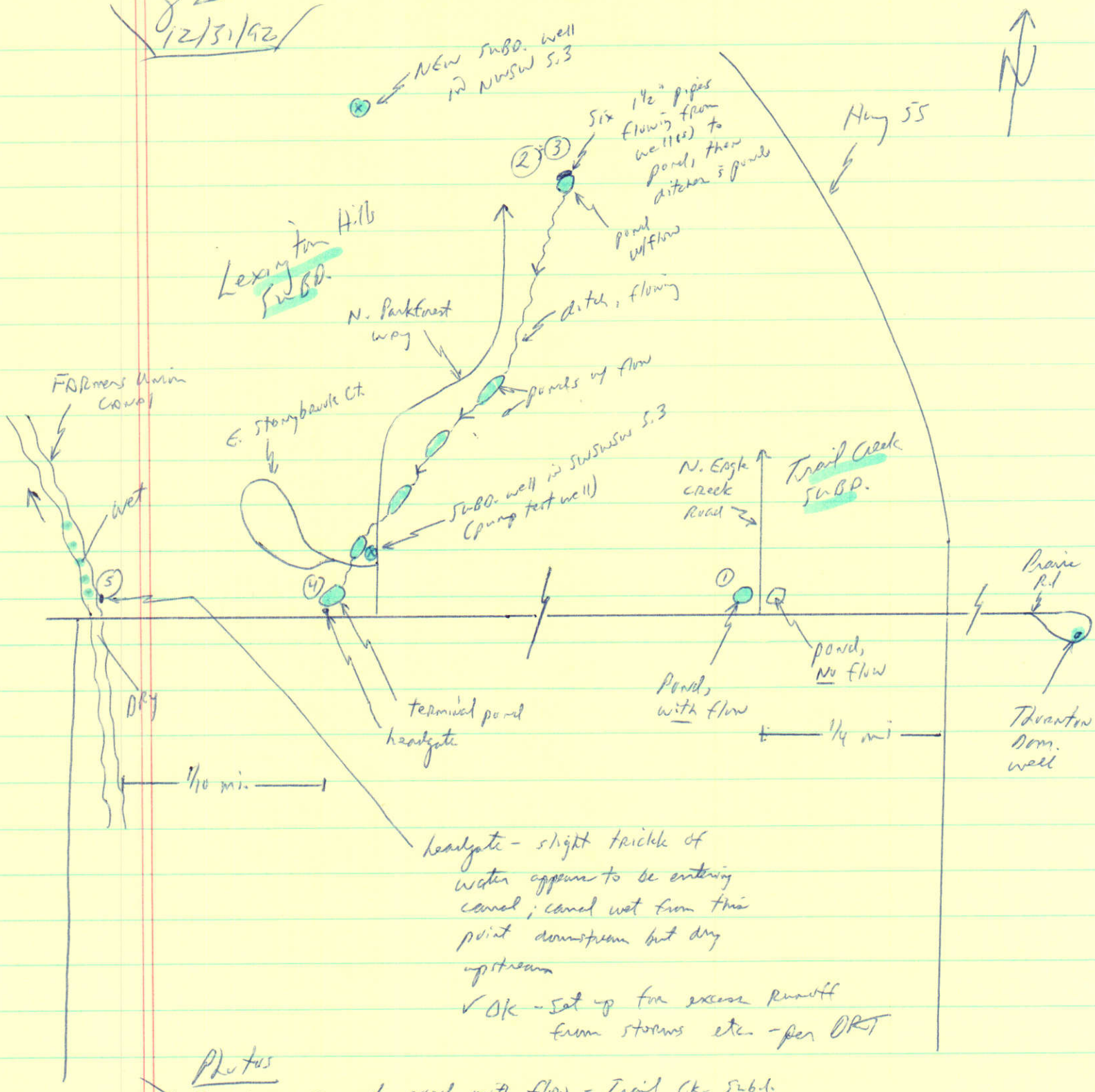
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Street Map Of EAGLE and Northmost Ada County
For Symbols Explanation See Boise Legend
SCALE 0 ¼ ½ ¾ 1 MILE
© Copyright by Hunt Enterprises, Boise, Id.
Eagle
Meridian Schools
Boise Schools
Middlebrook
Planned Development will be part of Eagle
FOR CONTINUATION SEE MAIN BOISE MAP
FOR CONTINUATION SEE MERIDIAN MAP ON OTHER SIDE
Eagle Island
Shadow Valley Golf Course
Spring Creek Estates
Maryglen
Sage Acres
Floating Feather Airport
Semi-Active
Eagle Hills
Los Luceros
Mesa Hill
Downing Downs
Eagle Ranch
Packing House
Site of Old Boise Valley Trolley Station
Chinden Blvd.
Seven-Mile Junction
Numbered Streets in Congested Areas
1 SPRING HILL DR
2 YELLOW PINE PL
3 BUCHANAN CIR
4 MISSION CT
5 EVERGREEN WY
6 LONGWOOD AVE
7 STIERMAN WY
8 MORAINE PL
9 AMANITA ST
10 PALMETTO AVE
11 EAGLE VILLAGE SUBDV
12 PEBBLE BEACH WY
13 PEBBLE BEACH CT
Lexington Hills wells
water currently from Thornton's well
Proposed Foothills Water Tanks 12/91
Boise Front Mountains
Horseshoe Bend
Meridian Schools
Boise Schools
Shicks
Eagle
Boise
Star
Caldwell
Garden City
Meridian
Chinden Blvd.
Joplin Cemetery
Golf Course
Clubhouse
Farmers Union Canal
Floating Feather Mobile Home Park
Eagle Meadows Mobile Home Park
Old Trolley Station
Eagle Bridge North
Eagle Bridge South
Eagle School
Eagle Fire Station
Eagle Hall
Eagle Bible Church
Eagle Cemetery
Eagle Creek
Eagle Canal
Boise River
South Channel
Proposed Route
Approximate Route of Old Oregon Trail
Geothermal Resource Area
Freestone Creek
Curlew Creek
Cottonwood Canyon
Shaw Mountain Pass
Scenic Loop Road Suitable for Trailer Automobiles
Former Stage Coach Route to Idaho City
Boise Basin Mining District
Unpaved Road
☆NUMBERED STREETS In Congested Area On Map
1. ALDAPE COVE
2. SAN JOSE WY.
3. SAN JUAN WY.
4. SAN FELIPE WY.
5. SHAW MTN. CT.
6. SANTA PAULA PL.
7. SANTA PAULA CT.
8. CANDLERIDGE CT.
9. HIGH POINT LN.
MISCELLANEOUS
MAY 21 1992

Boise State University
Campus Guidemap
Original Map by E.R. Weston, 1976. Adapted & enhanced by Hunt Enterprises.
Map updated and provided to us courtesy BSU Board of Regents.
Parking Codes & Markings
Reserved Staff
Open
All decals Staff Students (Must have a Decal)
All Campus Roads-Open (All decals)
Stadium Lot-Public Parking (No decal required)
Building Numbering Guide
1 Towers Dormitory
2 Health Science Building
3 Visitors Center/ New Student Information
University Admissions Counseling
4 Allied Health Faculties
5 Multi-Cultural Center / University Day Care Center
6 Radio KBSU
7 Political Science Center
8 University Courts
9 University Heights
10 University Manor
11 Science-Education Building
11a Education Building
12 Campus School
13 Student Health Center
14 Mail Room
15 Science Building
16 Business Building
17 Administration Building
18 Library-Learning Center
18a KAID-TV
19 Liberal Arts Building
20 Music Building
21 Heating Plant
22 Student Union Building
23 Special Events Center
24 Music-Drama Building
25 Driscoll Hall
26 Morrison Hall
27 Chaffee Hall
28 Gymnasium
29 Auxiliary Gymnasium (Pool)
30 Vocational-Education Center
31 Mechanical Technology Bldg
32 Technical-Education Center
33 Maintenance Building
34 Food Technology Building
35 Heavy Duty Mechanical Bldg
36 Physical Plant-Central Receiving
37 Archeology
38 Music
39 Art-Ceramic & Photo
40 Developmental Writing
41 Art Annex
42 ROTC
42a R S V P
43 Developmental Writing
44 Art Annex
45 Varsity Center
46 Bronco Stadium
47 Christ Chapel
Julia Davis Park
Boise River
VISITORS PARKING No decal Req'd

bogus basin
Four Seasons Recreation Area
SKI LIFTS. Elev. Contours in Feet. Ski Runs
SCALE 0 ¼ ½ MILE
© by Hunt Enterprises, Boise, Id.
Pine Cr. Cross Country Ski Area
Route to Idaho Hwy 21 at Grimes Creek
Pine Creek Basin
Nordic Skiing Trails
Shafer Butte Picnic Area
No Camping
Snowmobiles Closed to Autos Nov - May
Mores Mtn.
Elev 7237 Ft
Microwave Tower
Downhill
Lookout
Historic Cabin
Shafer Butte
Elev 7582 Ft
Boise Ridge
Shafer Basin
Cross Country Skiing
Boise National

12/31/92



headgate - slight trickle of water appears to be entering canal; canal wet from this point downstream but dry upstream

✓ Ok - set up for excess runoff from storms etc - per ORT

Photos

① Look SW at pond with flow - Trail Ck. Subd.

② Look NW at beginning of amenity in Lex. Hills Subd.; new playhouse in background

③ Closer view of #2. Storm discharges to pond; 5" line flowing from a common lateral

④ Look N at terminal pond & headgate

⑤ " " " canal & hdgate from FL. Feather bridge over canal; some water in canal from hdgate is downstream.

NOTE: is old pond south of FL. Feather across from Subd. terminal pond - not related; not getting flow from Subd. well

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Permit 63-1143 Photos taken 12/31/92 Pg 1 of 3 -SC



PHOTO ONE- Looking SW at flow into pond at corner of Floating Feather & N. Eagle Creek Rd. in SE¼ S. 3. This is in Trail Creek Subd.

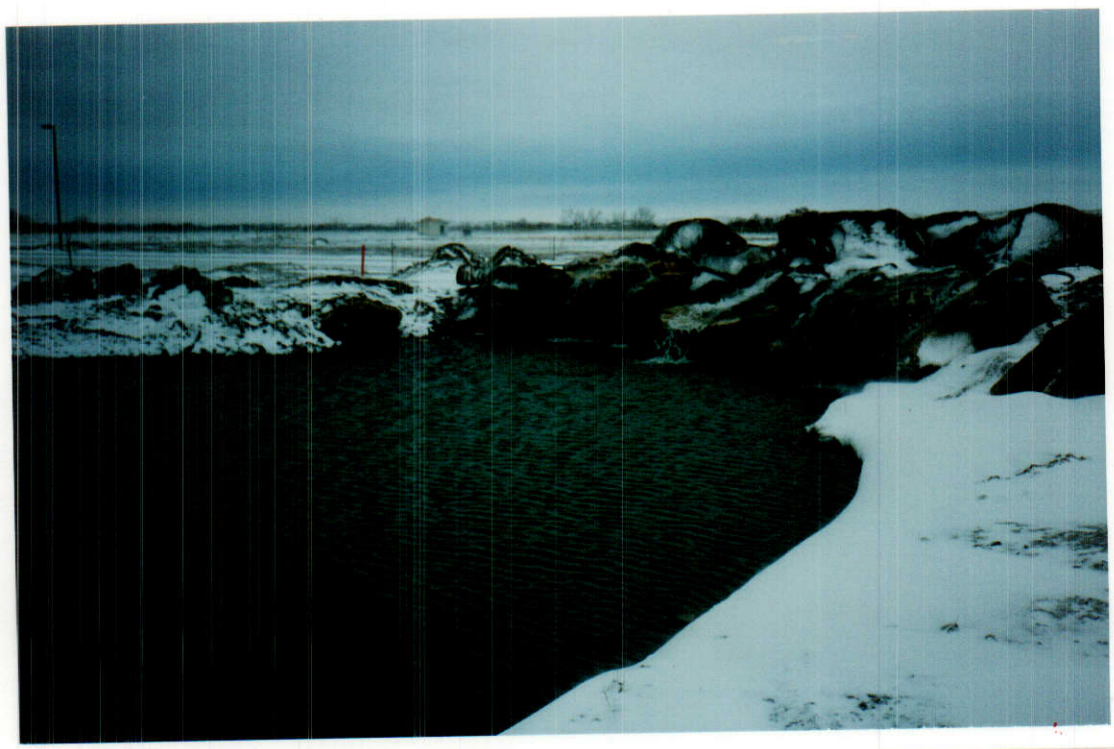


PHOTO TWO- View NW at beginning of water amenity in Lexington Hills Subd. Site is in NWSW S. 3, note pumphouse (newer well) in background.

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MAY 2 1 1993

Closer view of subject in photo #2- note pipes flowing into pond; found six ±1½" pipes in area. Pumphouse is out of view to right.



PHOTO THREE-

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Looking N. at terminal pond in amenity for Lexington Hills Subd.

This is just N. of floating fountain & just E. of Edgewood.



PHOTO FOUR-

Permit 63-11413 Photos taken 12/31/92 Pg 3 of 3 -82



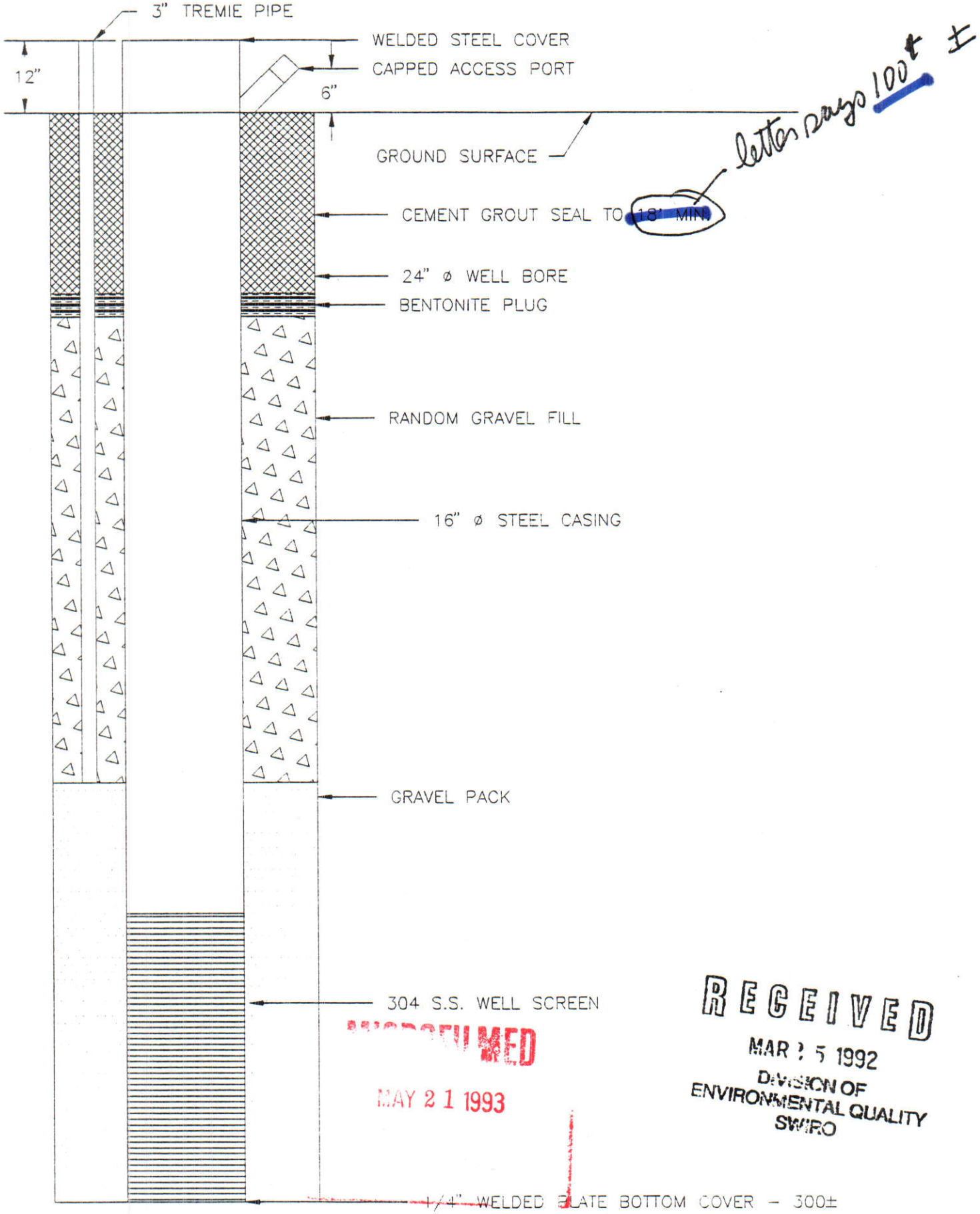
PHOTO FIVE- View N. from Floating Pontoon bridge over Farmers Canal. Outlet from water Amenity in Lexington Hills Subd. appears to be this structure on Right of canal.

Some water in canal at this point but dry immediately upstream (behind viewer).

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MAY 21 1993

LEXINGTON HILLS NO. 2 WELL CONSTRUCTION DETAILS

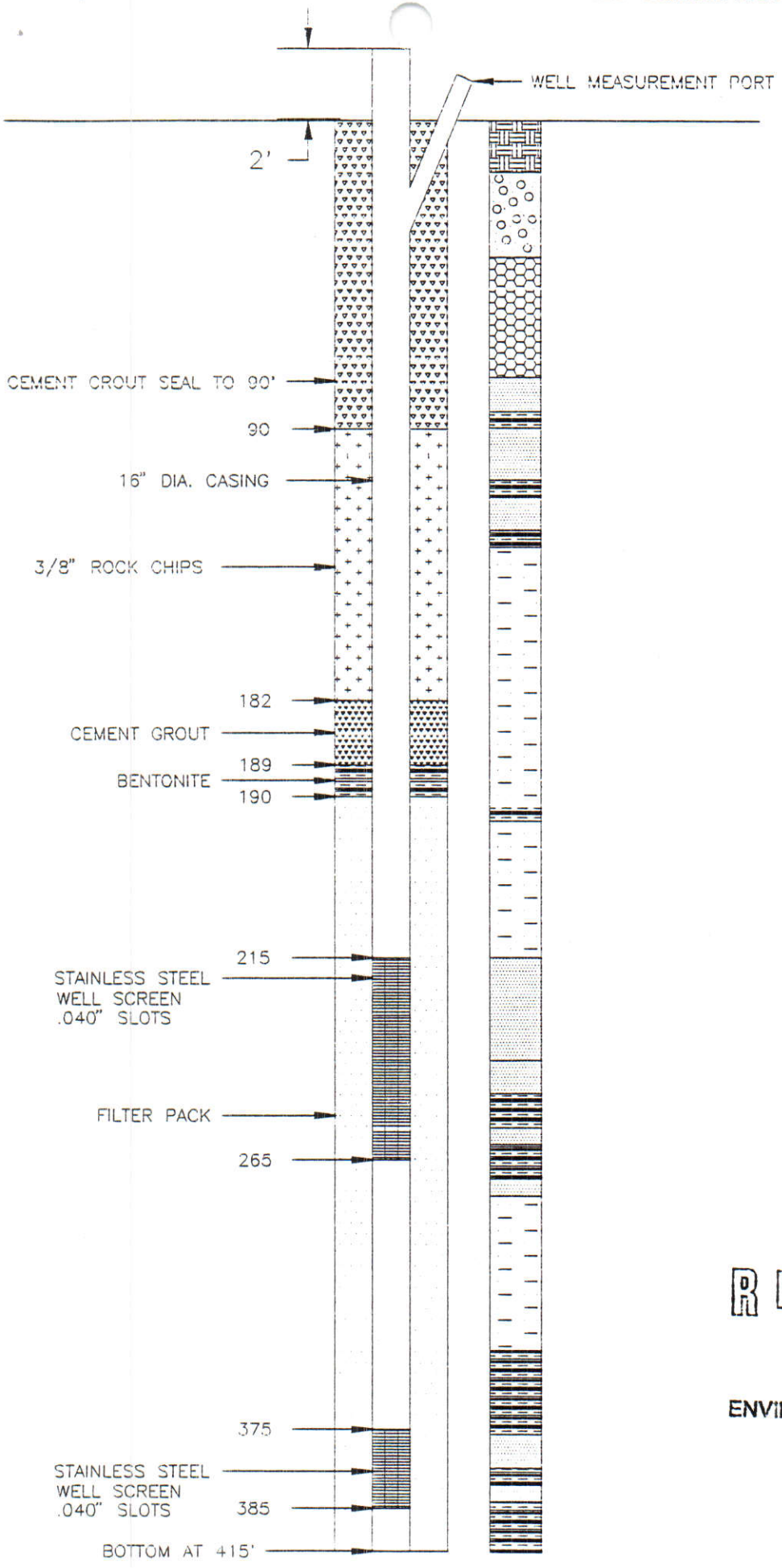
SHERL L. CHAPMAN CONSULTING
3/13/92



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MAR 25 1992
DIVISION OF
ENVIRONMENTAL QUALITY
SWRO

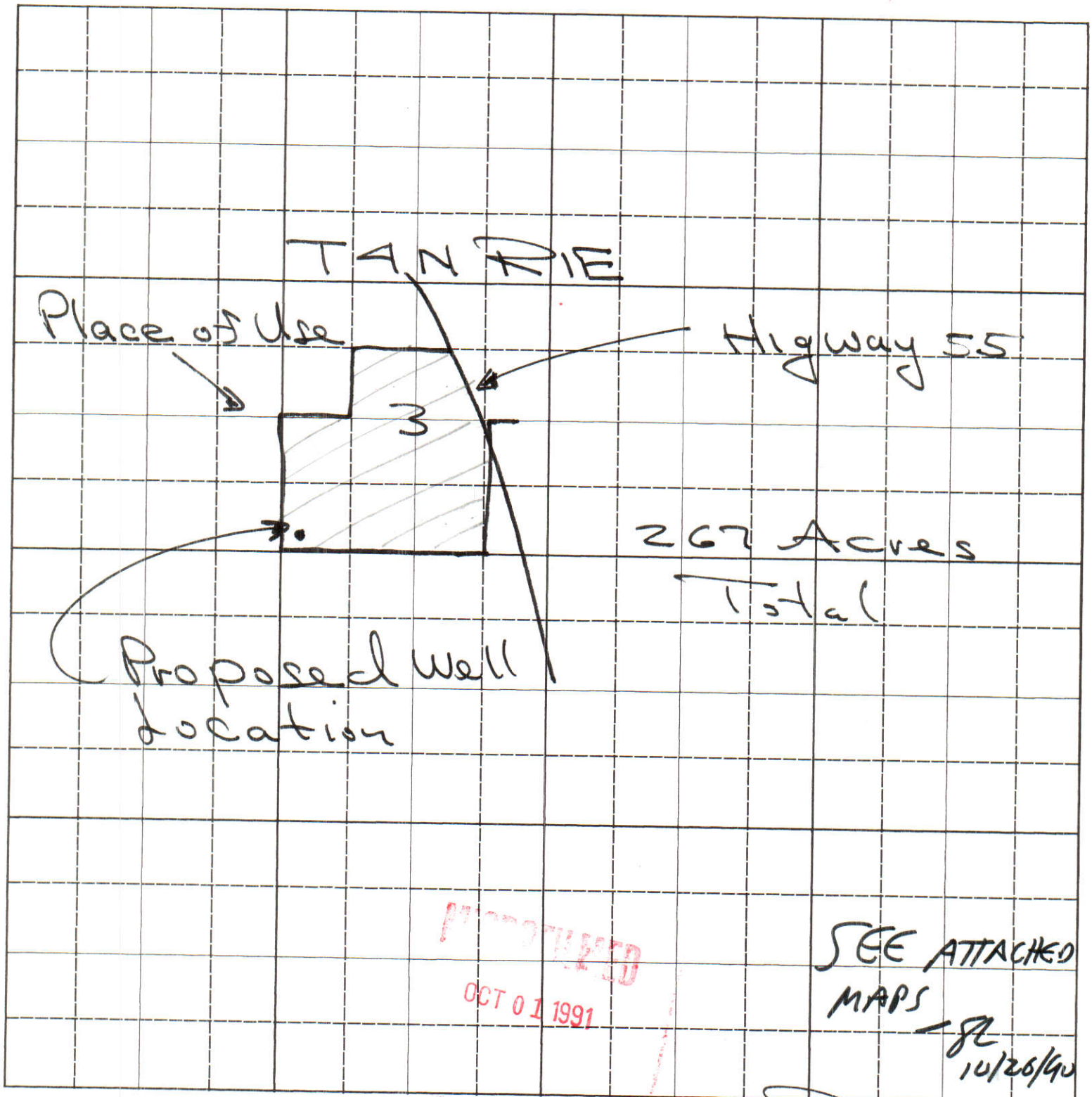
MICROFILMED
MAY 21 1993

LEXINGTON HILLS NO. 1 WELL CONSTRUCTION DETAILS



RECEIVED
MAR2 5 1992
DIVISION OF
ENVIRONMENTAL QUALITY
SWIRO
MAY 2 1 1993

13. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.

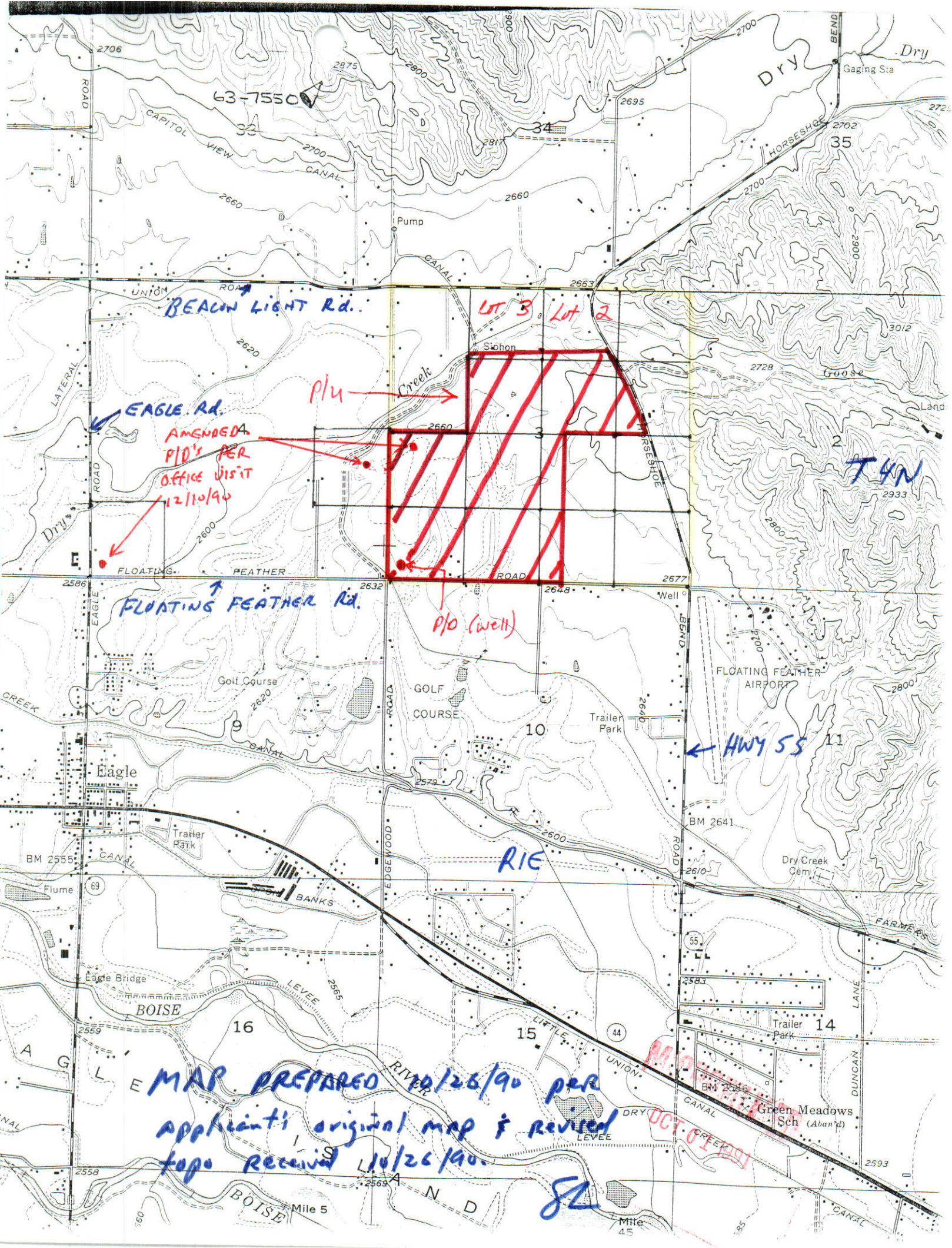


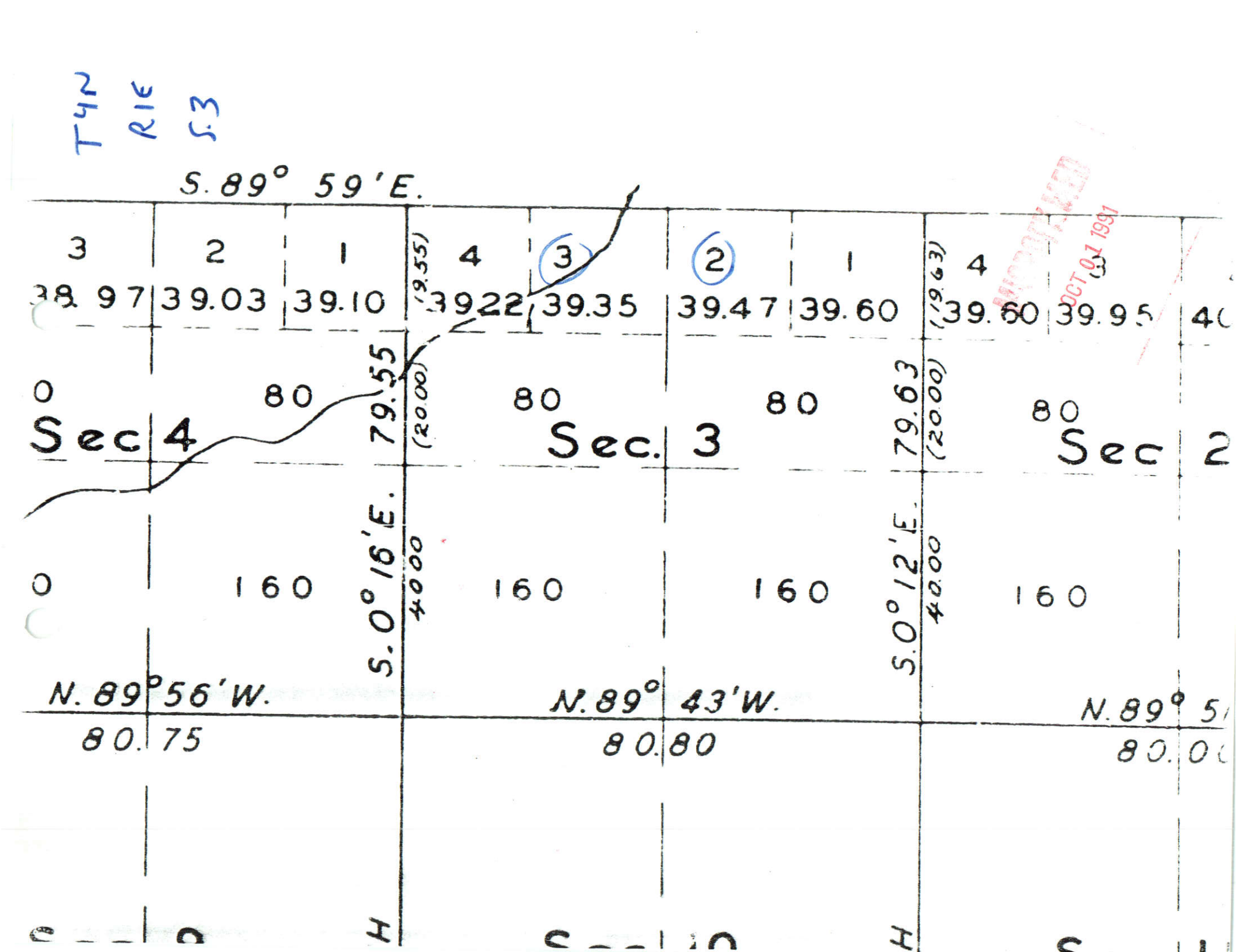
Scale: 2 inches equal 1 mile.

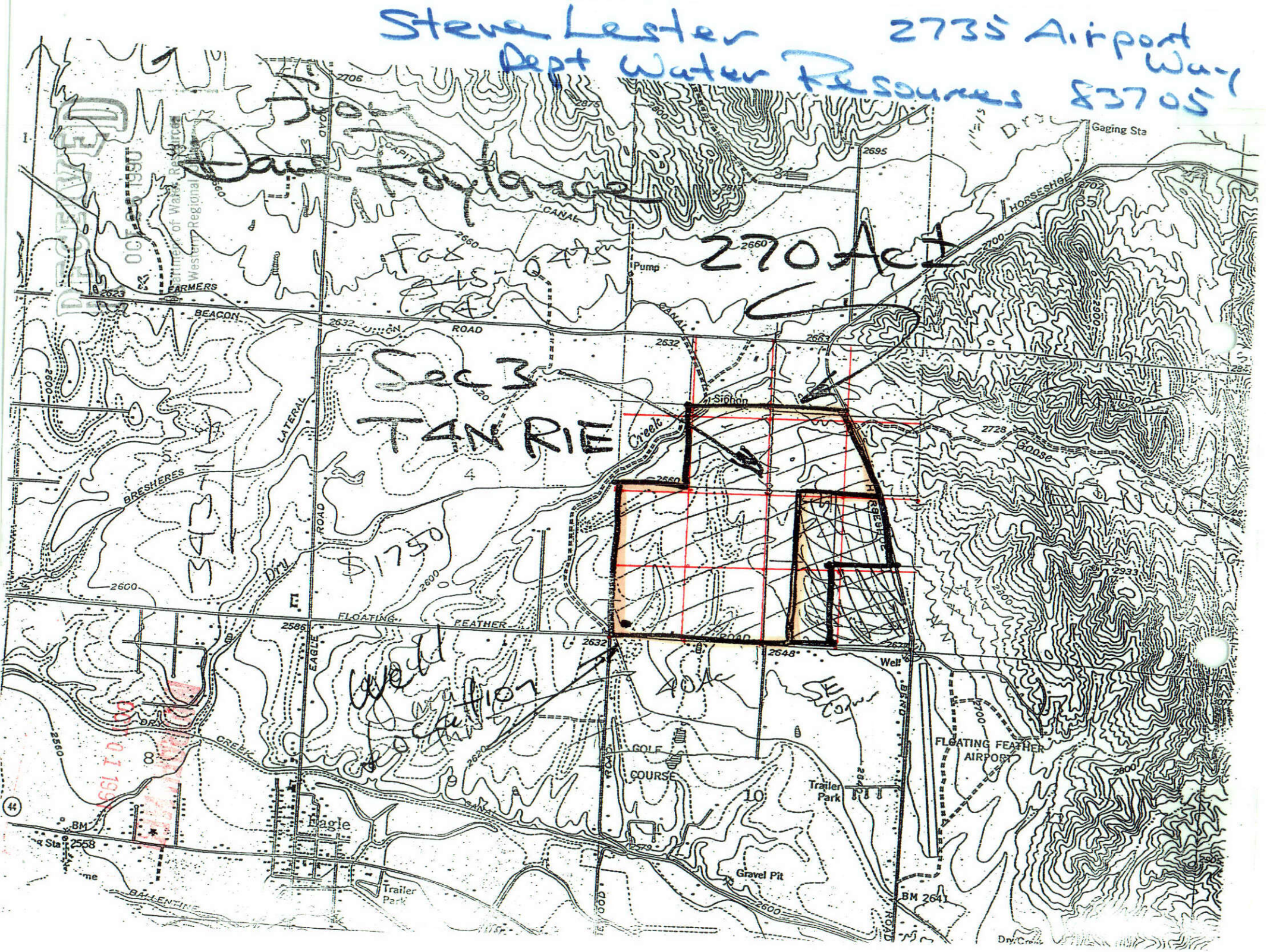
David Roylance

BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

(Applicant)


63-7550
BEACON LIGHT Rd.
LOT 3
Lot 2
p/u
EAGLE Rd.
AMENDED P/D's PER OFFICE VISIT 12/10/90
FLOATING FEATHER Rd.
P/D (well)
T4N
HWY 55
RIE
MAP PREPARED 10/26/90 per applicant's original map & revised topo Received 10/26/90.
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Dry Creek
Eagle
BOISE
Golf Course
Trailer Park
FLOATING FEATHER AIRPORT
Dry Creek Cem
Green Meadows Sch (Aban'd)
Gaging Sta
Pump
Siphon
Well
BM 2555
BM 2641
BM 2236
Flume
Eagle Bridge
Mile 5
Mile 45
CAPITOL VIEW CANAL
UNION PACIFIC
LITTLE DRY CREEK
EDGEWOOD ROAD
FARMERS LANE
DUNCAN LANE
HORSESHOE BEND ROAD
SPOIL BANKS
LEVEE
GOOSE CREEK
FLOATING FEATHER ROAD
EAGLE ROAD
LATERAL
CANAL
RIVER
IDAHO


T4N
R1E
S3
S. 89° 59' E.
3
2
1
4
3
2
1
4
38.97
39.03
39.10
39.22
39.35
39.47
39.60
39.80
39.95
(19.55)
(19.63)
79.55
(2000)
79.63
(2000)
80
80
80
Sec 4
Sec. 3
Sec 2
S. 0° 16' E.
40.00
S. 0° 12' E.
40.00
160
160
160
160
N. 89° 56' W.
N. 89° 43' W.
N. 89° 5
80.75
80.80
80.0
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Steve Lester
Dept Water Resources
2735 Airport Way
95370
Dave Peterson
270 Ac
Fox 445-0475
Sec 3
TAN RIE
T 4 N
$1750
40Ac
Well
SE Corner
Gaging Sta
Pump
Siphon
Creek
Goose
Dry
Dry Creek
Eagle
Trailer Park
GOLF COURSE
Gravel Pit
FLOATING FEATHER AIRPORT
BM 2641
BM 2558
FARMERS
BEACON
UNION ROAD
LATERAL
BRESHERES
EAGLE ROAD
FLOATING FEATHER
HORSESHOE
BALLENTINE
CANAL
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OCT 1990
Western Regional

The Idaho Statesman

P.O. BOX 40, BOISE, IDAHO 83707

LEGAL ADVERTISING INVOICE

Amount Due: 48.36

Account Number	Identification
47628	Notice of Assignment/Amendment of Appl. for Permit

Ordered By	P.O. Number	Rate	Run Dates
Gail Garrett		nt	March 21, 28, 1991

Idaho Dept. of Water Resources
Western Region
2735 Airport Way
Boise ID 83705

Estimated Inches	Real Inches
# Affidavits	Legal Number
1	7907

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APR 02 1991
Department of Water Resources
Western Regional Office

Denise Richardson, being duly sworn, deposes and says: That she is the Principal Clerk of The Idaho Statesman, a daily newspaper printed and published at Boise, Ada County, State of Idaho, and having a general circulation therein and which said newspaper has been continuously and uninterruptedly published in said County during a period of twelve consecutive months prior to the first publication of the notice, a copy of which is attached hereto; that said notice was published in The Idaho Statesman in conformity with Section 60-108, Idaho Code as amended, for two

☒ consecutive weekly ☐ consecutive daily ☐ single ☐ odd skip

insertion(s) beginning with the issue of Mar. 21, 19 91

and ending with the issue of Mar. 28, 19 91

Denise Richardson

STATE OF IDAHO)
ss.
COUNTY OF ADA)

On this 28th day of March in the year of 1991, before me, a Notary Public, personally appeared Denise Richardson, known or identified to me to be the person whose name subscribed to the within instrument, and being by me first duly sworn, declared that the statements therein are true, and acknowledged to me that she executed the same.

Notary Public for Idaho
Residing at Boise, ID
My commission expires: 1/93

NOTICE OF ASSIGNMENT AND AMENDMENT OF APPLICATION FOR PERMIT

Notice is hereby given that application No. 63-11413 in the name of Floating Feather Hills Inc. was filed on 10/22/1990 for the diversion of 5.0 cfs from groundwater with a point of diversion within T4N RIE S3 NWSW, SWSWSW and S4 SWSW, NESE to be used for Irrigation (3/15 to 11/15), Domestic and Fire Protection purposes from 01/01 to 12/31, within portions of T4N RIE S3 LOT 2 (NWNE), SI/2NEI/4, LOT 3 (NENW), SENW, SW1/4, WI/2SEI/4.

The applicant now proposes to amend the application by assigning an additional name of Treasure Valley Village, a limited partnership; by changing the rate of flow for domestic water use from 1.0 CfB tO 1.25 cfs, with 5.0 cfs remaining for the total diversion for the three water uses mentioned above; by adding to the original place of use two additional tracts within S3, NESE and SESE; and by increasing the total number of homes served to 900.

Any new protest against the approval of the proposed assignment and amendment must be filed with the Department of Water Resources, Western Region, 2735 Airport Way, Boise, Idaho 83705 on or before April 8, 1991. Any protest filed regarding an earlier version of the application remains valid.

R. Keith Higginson
Director
Pub. Mar. 21, 28, 1991 7907

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OCT 01 1991

The Idaho Statesman

P.O. BOX 40, BOISE, IDAHO 83707

LEGAL ADVERTISING INVOICE

Amount Due: 36.48

Account Number	Identification
47628	Amended Application for Permit

Ordered By	P.O. Number	Rate	Run Dates
Gail Garrett		nt	December 20, 27, 1990

Western Region
2735 Airport Way
Boise ID 83705

Estimated Inches	Real Inches
# Affidavits	Legal Number
1	7225

NOTICE OF AMENDED APPLICATION FOR PERMIT

Notice is hereby given that application No. 63-11413 in the name of Floating Feather Hills Inc. was filed on 10/22/1990 for the diversion of 5.0 cfs from groundwater with a point of diversion within T4N R1E S3 SWSWSW to be used for Irrigation, Domestic, and Fire Protection purposes from 3/15 to 11/15 (Irrigation) and 01/01 to 12/31 (Other) within portions of T4N R1E S3 LOT 2 (NWNE), S1/2NE1/4, LOT 3 (NENW), SENW, SW1/4, W1/2SE1/4.

The applicant now proposes to amend the application by changing the point of diversion to: T4N R1E S3 NWSW, SWSWSW and S4 SWSW, NESE for uses during the same period of each year and within the same portions as originally described.

Any protest against the approval of the proposed amendment must be filed with the Department of Water Resources, Western Region, 2735 Airport Way, Boise, Idaho 83705 on or before **January 7, 1991.**

Pub. Dec. 20, 27, 1990 7225 ~~1990~~

Julie Day, being duly sworn, deposes and says: That she is the Principal Clerk of The Idaho Statesman, a daily newspaper printed and published at Boise, Ada County, State of Idaho, and having a general circulation therein and which said newspaper has been continuously and uninterruptedly published in said County during a period of twelve consecutive months prior to the first publication of the notice, a copy of which is attached hereto; that said notice was published in The Idaho Statesman in conformity with Section 60-108, Idaho Code as amended, for two

☒ consecutive weekly ☐ consecutive daily ☐ single ☐ odd skip

insertion(s) beginning with the issue of Dec. 20, 19 90

and ending with the issue of Dec. 27, 19 90

Julie Day

STATE OF IDAHO)
ss.
COUNTY OF ADA)

On this 27th day of December in the year of 1990, before me, a Notary Public, personally appeared Julie Day, known or identified to me to be the person whose name subscribed to the within instrument, and being by me first duly sworn, declared that the statements therein are true, and acknowledged to me that she executed the same.

Notary Public for Idaho
Residing at Boise, Id.
My commission expires: 1/2/93

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DEC 31 1990
Department of Water Resources
Western Regional Office

PROCESSED
OCT 01 1991

3/96

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
NOTICE OF PROTEST

This form may be used to file a protest with the department under sections 42-108B, 42-203A, 42-203C, 42-211, 42-222 and 42-224, Idaho Code. The department will also accept a timely protest not completed on this form if it contains the same information.

1. Matter being protested permit #63-11413 taking of water (proposed Amendment) for ~900 homes + 195 acres

2. Name of protestant Nancy Little

3. Protestant's representative for service (If different than protestant)

None

4. Service mailing address 421 S Latah / Boise / 83705

5. Service telephone no. 344-4965

6. Basis of protest (including statement of facts and law upon which the protest is based)

#1. my rights! (for growth in Lexington Hills #1+2, Trail Creek Subdivisions (permit #63-11413) in S3) + Hermosa Subdivisions 1/2 in + MINOR? Reduction of Irrigation (my rights) #63-11418

(additional pages may be attached to describe the nature of the protest)

7. What would resolve your protest? no more growth - we have a limited amount of water + it will be impossible to supply all + each + everyone with clean water - maybe none at all!

I hereby, acknowledge that if I, or my designated representative, fails to appear at any regularly scheduled conference or hearing in the matter of which I have been notified at the address above, the department may issue a notice of proposed default against me in this matter for failure to appear. I also verify that I have served a copy of this protest upon the applicant. I have problems (health) + may not be able to attend but I still have my rights.

Signed this 3 day of Dec, 1998.

Nancy Little
PROTESTANT

PROTESTANT'S REPRESENTATIVE

MICROFILMED
JAN 04 1999

Idaho Department of Water Resources
APPLICATION FOR MUNICIPAL PUMP TEST
OR IRRIGATION SYSTEM AUDIT

1. Applicant: EAGLE WATER CO.

2. Person to contact to arrange pump test: _____

   Address: P.O. Box 455
   Eagle, Idaho 83616

   Phone: 939-0242

3. For irrigation audits only:
   Motor horsepower of each pump 50 H.P. SUBM. 25 H.P 25 H.P
   Number of deep well turbines 3 short couple turbines _____
   Number of in-line boosters _____ other centrifugals 3

   Are any deep well turbines interconnected? yes ____ no ____

4. The applicant hereby authorizes the Department and its agents to install and use testing equipment during the period of the test. The applicant understands that installation may involve the drilling and tapping of the discharge pipe for installation of a flow meter, and that upon completion of the test, the hole is plugged. The applicant also understands that an authorized person must be on-site to operate the pumping unit during the test. The applicant hereby agrees to indemnify and hold harmless the Department and its agents for any injuries or losses resulting from performance of the pump test, provided that the Department and its agents shall not hereby be relieved of liability for their own negligence.

5. The Department shall prepare a pump test or system audit report and shall mail it to the above address. The applicant agrees to make a good faith, concerted effort to determine if a retrofit would be cost-effective and make the appropriate improvements within a reasonable period of time from receipt of the Department's written report.

Authorized Signature: _____ Date: 5-20-91

Capacity or Position: _____

Accepted by: _____ Date: 6-16-91
Idaho Department of Water Resources

Mail to: Idaho Department of Water Resources
Statehouse Mail
Boise, Idaho 83720

State of Idaho
DEPARTMENT OF WATER RESOURCES
1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720 -(208) 327-7900

CECIL D. ANDRUS
GOVERNOR
R. KEITH HIGGINSON
DIRECTOR

RECEIVED
JUN 17 1991
Department of Water Resources
Western Regional Office

June 11, 1991

Mr. Robert Deshazo
Eagle Ranch Water Co.
P.O. Box 455
Eagle, Idaho 83616

Dear Mr. Deshazo:

Enclosed with this letter is a copy of a report documenting the results of energy efficiency evaluations which were recently conducted for pumps owned by Eagle Ranch Water Co., in Eagle, Idaho.

The report gives the overall pumping-plant efficiencies as determined by the tests and shows the savings in energy costs that could be achieved if the pumps were improved to operate at their optimum efficiency. Included in the report are discussions of how energy savings would occur, as well as some of the possible corrective measures that may be necessary.

The Summary and Recommendations in this report are somewhat different than the report I delivered to you on June 10th. Pump curves for the #1 and #2 boosters have also been added.

Please be aware that this report does not present any information about the costs required to make pump improvements. Consequently, it does not reach any conclusions about whether improvement would be cost effective. It is the city's responsibility to contact pump dealers or consultants to obtain accurate cost estimates.

In conjunction with the pump efficiency test program, the Idaho Department of Water Resources offers a low-interest loan program to assist cities with financing of pump improvements. Loans up to $50,000 are available at 6 percent interest for qualifying projects.

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If you have any questions about the results of the efficiency tests, if you need further assistance in identifying pumping plant problems, or if you need information or assistance concerning the loan program, please let me know. I can be reached by mail at the above address or by phone at 327-7958.

Sincerely,

Scott King

Scott King
Water Resource Engineer (EIT)

Enclosure

OCT 01 1991

State of Idaho
DEPARTMENT OF WATER RESOURCES
1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720 -(208) 327-7900

CECIL D. ANDRUS
GOVERNOR
R. KEITH HIGGINSON
DIRECTOR

June 11, 1991

Mr. Norman Revels
Eagle Ranch Water Co.
P.O. Box 455
Eagle, Idaho 83616

Dear Mr. Revels:

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Sincerely,

Scott King

Scott King
Water Resource Engineer (EIT)

Enclosure

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OCT 01 1991

ENERGY EFFICIENCY EVALUATIONS FOR PUMPS OWNED BY THE EAGLE RANCH WATER COMPANY OF EAGLE, IDAHO

Prepared by
Scott King, E.I.T.
Rick Sterling, P.E.

Idaho Department of Water Resources
Boise, Idaho

June 1991

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Appendix B - Pump Test Summaries
Appendix C - Pump Characteristic Curves
Appendix D - How to Monitor Pump Efficiency
Appendix E - Application to Conduct Municipal Pump Test

OCT 01

SUMMARY

Energy efficiency evaluations were recently conducted for pumping plants for Eagle Ranch Water Company, in Eagle, Idaho. The purpose of the evaluations was to determine the energy savings, and thus dollar savings, that could be achieved if the pumps were to be improved to operate at their optimum efficiency.

#1 SUBMERSIBLE

The pump efficiency test results indicate that the pump's efficiency is about 45 percent. This is considered "fair" (for this size of submersible pump) according to standards established for electrically-driven centrifugal pumps. If the pump's efficiency could be improved to optimum, an annual energy cost savings of about $940 is estimated. Repair of the pump may not be cost-effective, and it is recommended that a pump dealer be consulted before any repairs are made.

#2 SUBMERSIBLE

The pump efficiency test results indicate that the pump's efficiency is about 45 percent. This is considered "fair" for this size of submersible pump. If the pump's efficiency could be improved to optimum, an annual energy cost savings of about $360 is estimated. A more serious problem than low efficiency however, is the pump's reduced flow.

It appears as though this pump is not set deep enough in the well. The pumping water level was measured at 134 feet, and the pump is probably set very near this depth. When the gate valve on the discharge of this pump is fully open, the pump apparently pumps air. The pump is probably not submerged enough to meet its submergence requirements (which may be causing part of the lowered efficiency) and it should be set deeper in the well. A pump dealer should be contacted for a repair cost estimate.

UNCATALOGUED

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#3 SUBMERSIBLE

The pump efficiency test results indicate that the pump's efficiency is about 51 percent, which is considered "good" and is the better of the three submersible pumps tested. If the pump's efficiency could be improved to optimum, an annual energy cost savings of about $250 is estimated. Repair of the pump is probably not cost-effective, although a pump dealer may be contacted for a repair cost estimate.

#1 BOOSTER

The #1 booster was operating with a "fair" to "good" efficiency of about 48 percent. The flow was measured at 155 gpm at 61.5 psi. If the pump's efficiency could be improved to optimum, an annual energy cost savings of about $100 is estimated. Repair of the pump would probably not be cost-effective, although a pump dealer may be contacted for a repair cost estimate.

#2 BOOSTER

The #2 booster was operating at a "very low" efficiency of 23 percent. The pump produced 115 gpm at 66.5 psi. Annual energy cost savings are projected at $750 if this pump was improved to a potential efficiency of about 62 percent. It may be possible that the system's demand for water was very low at the time of measurement, and that when the demand is higher, the pump may obtain a higher efficiency. It is also possible that the flow reading was in error. The "Hall" flow meter was inserted in a poor location which may have caused an erroneous reading. This pump should be re-tested during a time of peak demand (with a different flowmeter) to determine its optimum efficiency. If this pump is indeed this inefficient, repair should be cost effective.

#3 BOOSTER

Unfortunately, the efficiency could not be determined for the #3 booster. Excessive slag in the access port prevented installation of IDWR's Hall meter (which measures the flow of

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water). Without a flow measurement, the efficiency cannot be determined. IDWR was able to measure pressure (64 psi) and input horsepower (11.1 hp). The input power seems very low for the 25-hp motor, and again it may be possible that the system's demand was low, and therefore the pump did not need to produce it's designed flow. This pump should also be re-tested during times of peak demand.

The Idaho Department of Water Resources offers financing to assist cities in making cost effective pump improvements. Loans up to $50,000 are available at six percent interest for qualifying projects. Since financing is limited, loans are offered on a first come, first served basis. Contact IDWR for information on the loan program or for assistance in planning pump improvements.

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INTRODUCTION

Pumping plant efficiency evaluations were recently conducted for the city by the Idaho Department of Water Resources. This report discusses the results of those evaluations.

The primary purpose in conducting the evaluations was to test the energy efficiency of the city's water system pumps, and to determine the energy savings that could be achieved if the pumps were to be improved to perform at their optimum efficiency. These energy savings are translated into energy cost savings based on the electric rates presently in effect. Using the cost savings presented here, it is the responsibility of the city to contact pump dealers, contractors or consultants to obtain estimates of the cost necessary to make pump improvements, and subsequently to determine whether improvements would be cost effective. The ultimate objective of the evaluations is to assist the city in achieving the least cost, most energy efficient system possible.

In addition to the primary purpose of evaluating energy efficiency, one of the secondary purposes is to assess the performance of the flow meters, pressure gauges and water level indicators which are presently installed in the pumping plants. While this in itself may not save energy, it should lead to a better managed system.

It should be noted that the pump tests are not a complete system analysis or hydraulic evaluation. Time and manpower restrictions prohibit an evaluation of an entire water system or its operation. It should also be noted that if changes are implemented on one pump, further system analysis may be necessary to determine the effect on other interconnected parts of the system.

This program is being funded through Exxon oil overcharge funds received by the State of Idaho, with additional funding provided by the Bonneville Power Administration. To complement this program, IDWR also administers a low interest loan program to assist cities with financing of energy conservation projects.

Details of the loan program are presented in Appendix A. Loans offered through this program are not restricted only to improvements to pumping plants, but are available for any type of eligible energy conservation project.

METHODS AND PROCEDURES

To gather the data necessary to compute overall pumping plant efficiencies, four items are measured for each pump tested; 1) flow rate, 2) discharge pressure, 3) pumping water level, and 4) power input. Flow rate is measured using a Collins, Hall, Annubar, or Sonic meter. These flow meters are usually accurate to within ±5 percent of the true flow when installed under conditions specified by the manufacturer. Discharge pressure is measured using a liquid-filled pressure gauge accurate to within 1 psi. Pumping water level is measured using an air line when one has been installed; an electric well probe or steel measuring tape is used when an air line has not been installed. Power input is measured using the utility's electric meter when it is accessible; measurements are taken inside the electrical panel when a meter is not accessible.

Flow rates, discharge pressures and pumping water levels as measured by IDWR and as recorded by gauges and meters during the test are summarized in Table 1. IDWR measurements can be assumed to be at least as accurate as those recorded by the city's flow meters and gauges. Consequently, if a significant difference (more than 10 percent) exists between IDWR measurements and the city's, it is recommended that the city have their meters and gauges checked.

TABLE 1

EAGLE RANCH WATER CO.

MUNICIPAL WATER WELL DATA

	FLOW RATE (GPM)			DISCHARGE PRESSURE (PSI)		
PUMP ID	IDWR	CITY	% DIFFERENCE	IDWR	CITY	% DIFFERENCE
#1	----	539.2	----	66.0	65	-1.5
#2	----	265.5	----	1.0	----	----
#3	258.5	310.0	+19.9	65.5	67	+2.3
BOOST #1	155.5	----	----	61.5	----	----
BOOST #2	114.7	----	----	66.5	----	----
BOOST #3	*	----	----	64.0	----	----

	AIR LINE LENGTH (FT)	AIR LINE PRESSURE (PSI)		AIR LINE WATER LEVEL (FT)		FISHER WELL PROBE WATER LEVEL (FT)	
		STATIC	PUMPING	STATIC	PUMPING	STATIC	PUMPING
#1	----	----	----	----	----	40.0	59.0
#2	----	----	----	----	----	50.9	133.8
#3	----	----	----	----	----	65.5	69.2

* The flow from Booster #3 could not be measured due to excessive slag in the access port preventing insertion of IDWR's Hall meter.

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OPORTUNITIES FOR ENERGY SAVINGS IN PUMPING PLANTS

Municipal pumping plants in Idaho are usually billed two ways; 1) energy charges for total energy used in kWh, and 2) demand charges for the peak electrical demand in kW recorded during the billing period. Energy cost savings can be achieved by reducing either or both.

Energy Charges

An energy charge is assessed for each kWh of energy consumed by a pumping plant. For example, a 50 kW (67 hp) pump operating 100 hours during the billing period consumes (50 x 100) 5000 kWh of energy. To reduce energy charges, either the power requirement (50 kW), the hours of operation, or both must be reduced. The power requirement (demand) can be reduced by improving the pump efficiency. Hours of operation can only be reduced if the flow rate is increased, since the same total volume of water must be pumped. Replacing an existing inefficient pump with a new pump of the same design will reduce the hours of operation and possibly the electrical demand. Replacing an existing inefficient pump with a new pump designed to deliver the present flow will only decrease electrical demand, not hours of operation. However, it may save just as much energy.

The assumption used for the analysis in this report is that existing inefficient pumps would be replaced with new pumps that would deliver the present flow and pressure. Admittedly however, it is more likely that old pumps would be replaced with pumps that would restore, or even increase original flows and pressures. This could result in a greater power requirement, thus lower energy savings than are projected in this report. However, it is very important to realize that by improving one pump in a water network, other pumps in the system will be called on to supply less of the water demand. Consequently, the energy savings presented in this report are estimates of system-wide savings, and are <u>not</u> intended to represent savings that would be achieved at each pumping plant

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individually. The complex, interconnected nature of most municipal water systems makes it extremely difficult to accurately project energy savings at individual pumps, thus the reason for our approximate analysis procedure.

Demand Charges

For most municipal pumping plants, a demand charge is assessed for the peak power requirement in kW during the highest 15 minute period of use during the billing cycle. The purpose of the demand charge is to compensate the electric utility for their investment, upkeep and replacement cost of power lines, transformers, power generating stations and other equipment needed to supply electric energy to the consumer's premises. For the average residential customer, demand charges and energy charges are lumped together since demand and usage are relatively low and remain fairly constant throughout the year. However, for customers with large, intermittent electrical loads such as water system pumps, the charges are made separately since the utility's cost of service is not simply proportional to the amount of energy used.

A demand charge is assessed against the peak demand established during the billing period. It does not depend on the amount of time the pump operates, nor does it depend on the number of times the pump is turned on and off. Consequently, a full demand charge will be assessed against the customer if the pump operates at least the 15 minutes needed to establish the peak demand. Operation longer than 15 minutes, regardless of whether it is turned on once or many times, is billed through energy charges. Peak demand, as recorded by the utility's meter, is set back to zero each time the meter is read, so that a new peak demand can be established in the next billing cycle.

Demand charges can be reduced in two ways; 1) by reducing the peak power requirement of the pump, and 2) by turning on only those pumps needed to supply the water requirement. As was just discussed, peak demand is usually reduced when efficiency is improved. While this is highly recommended since it would certainly

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reduce energy costs, improving pump efficiency requires some capital investment. On the other hand, leaving pumps turned off during an entire billing period costs nothing, and can save even more money than improvements in efficiency. This may be possible in many water systems since some pumps could be used only during the peak water demand period in the summer, used as backups, or used only in an emergency such as a fire.

Because of the way demand charges are assessed, it makes economic sense to utilize as few pumps as necessary to provide the needed water, and if necessary, to operate those pumps more hours. From an economic standpoint, it is not wise to share the pumping duty between two or more pumps when one can do the job. admittedly however, there are other valid reasons for not operating pumps in the most economic manner, and these should be given proper consideration.

POSSIBLE CORRECTIVE MEASURES

The efficiency of a municipal water pump could decrease because of a variety of reasons. Similarly, there are a variety of corrective measures that may need to be made to improve efficiency. Some of these are listed below.

1. Pump Replacement

Complete pump replacement may be the best option in cases where the efficiency is extremely poor or the pump is not repairable. It might also be necessary in cases where the pump is no longer operating under the conditions for which it was originally designed. Even pumps in good condition will perform poorly under the wrong pumping conditions. Pumping conditions can change significantly as cities add subdivisions, attract industry, replace water mains, or add storage tanks.

Pumping conditions can also change as water levels in wells drop. It is not usually satisfactory to simply lower the pump in these cases. Additional, or a complete new set of

OCT 0 1 1991

impellers and bowls may be necessary.

Complete pump replacement can be very costly, especially if the bowls are set very deep. Consequently, significant energy savings must be possibly before it can be justified economically.

2. Impeller and Bowl Replacement

Impellers and bowls can become badly worn over time, due to abrasion, cavitation or corrosion. This results in decreased discharge pressure and flow. Replacing impellers is costly since the pump must be pulled and electrically disconnected, however, the energy savings may justify it in some cases.

3. Impeller Adjustment

On most pumps the clearance between the impeller and the pump bowl can be adjusted. This is done with an adjusting nut at the coupling or on top of the motor. It is a relatively inexpensive and simple procedure that can be done in one or two hours. The pump dealer can make the adjustment according to the manufacturer's specifications.

4. Motor Replacement

It is normally not cost effective to replace motors for reasons of improvement in efficiency since their efficiency will only decrease from one to five percent over their lifetime. Obviously however, motors do wear out and must be replaced. Overloading a motor by more than 15 percent of its rated load will cause overheating, thus shortening the life of the motor.

5. Power Factor Correction

Most utilities penalize customers for power factors below 85 percent. Penalties vary depending on the utility. Power factors can be corrected by installing capacitors at the

switchgear or near the motor. Corrections can be cost effective if the power factors are low enough and if the utility's penalty is severe.

6. Piping and Fitting Modifications

Piping and fitting modifications could be warranted in cases where the pump inlet or discharge piping causes excessive friction losses. This situation would most likely be present only in cases where replacement or booster pumps have been added later, and is only rarely encountered in original pumping plant designs.

Each corrective measure listed here is not necessarily recommended for every pump, and may in fact not always be possible. While the tests that have been conducted for the city do indicate whether a pump is performing optimally, they are not by themselves sufficient to specifically identify the corrective measures that should be implemented. These pump test results should only be used to identify those pumps in need of repair, while a pump dealer or an independent consultant should be consulted to determine which corrective measures to implement.

RESULTS

Pumping plant efficiencies can be judged from low to excellent using the information shown in Table 2. The figures shown represent the combined efficiencies of pumps and their associated motors. Notice that efficiencies, even for pumps and motors in excellent condition, do not approach 100 percent. This is because the peak efficiency of a new motor will be in the range of 85 to 95 percent, while the peak efficiency of a new pump will be in the range of 75 to 85 percent. The overall pumping plant efficiency as defined in this report is the product of the motor and pump efficiencies (i.e., .75 x .85 = .64). For simplicity, minor efficiency losses are not considered here. Notice also that the efficiencies of large pumping

plants can be expected to be higher than that of smaller plants. The information shown in the table is based on the results of thousands of tests conducted in the West by Pacific Gas and Electric Company.

TABLE 2

Electric Powered Pump Standards for Tested Efficiencies

(from Pacific Gas and Electric Company,
77 Beale Street, San Francisco, CA 94106)

Motor Size (HP)	Ratings Low	Fair	Good	Excellent
3-5	41.9 or less	42-49.9	50-54.9	55 or above
7.5-10	44.9 or less	45-52.9	53-57.9	58 or above
15-30	47.9 or less	48-55.9	56-60.9	61 or above
40-60	52.9 or less	53-59.9	60-64.9	65 or above
75+	55.9 or less	56-62.9	63-68.9	69 or above

The results of the efficiency test(s) conducted for the city are summarized in Table 3. Note that the present plant efficiencies shown in the second column are overall plant efficiencies, and are the figures used with Table 2 to classify a pump's general condition. Individual test results for each pump, along with the estimated energy savings are shown on each of the subsequent pages. Additional details of the test(s) and the calculations used in the analysis are shown in Appendix B.

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TABLE 3

SUMMARY OF POTENTIAL ENERGY SAVINGS

OWNER OF PUMPS: EAGLE RANCH WATER CO.

PUMP I.D.	PLANT EFFICIENCY (%) PRESENT	POTENTIAL	POWER INPUT (KW) PRESENT	POTENTIAL	ENERGY SAVINGS (KWH/YR)	COST SAVINGS ($/YR)
#1	44.7	57.1	50.1	39.2	21806.	937.27
#2	45.4	61.4	15.9	11.7	8319.	357.59
#3	50.8	58.9	21.5	18.6	5930.	254.88
BOOSTER #1	48.4	57.2	8.3	7.0	2517.	108.21
BOOSTER #2	23.0	62.0	13.9	5.2	17455.	750.29

TOTAL KWH SAVED	56027. KWH/YR
ENERGY COST SAVINGS @ $ 0.0288/KWH	$ 1611./YR
DEMAND CHARGE SAVINGS	$ 797./YR
TOTAL COST SAVINGS	$ 2408./YR

POTENTIAL ENERGY SAVINGS

OWNER OF PUMP: EAGLE RANCH WATER CO.

PUMP I.D.: #1

DATE OF PUMP TEST:5/20/91

	#1 (50-HP)	
	PRESENT	POTENTIAL
OVERALL PUMPING PLANT EFFICIENCY (%)	44.7	57.1
ASSUMED ELECTRIC MOTOR EFFICIENCY (%)	84.0	84.0
PUMP EFFICIENCY (%)	53.2	68.0
TOTAL VOLUME OF WATER PUMPED (MG/YR)	64.7	64.7
PUMP DISCHARGE (GPM)	539.2	539.2
PUMP OPERATION (HR/YR)	2000.0	2000.0
INPUT HORSEPOWER (HP)	67.1	52.5
INPUT POWER (KW)	50.1	39.2
ESTIMATED ENERGY USE (KWH/YR):	100126.	78320.

ESTIMATED ANNUAL SAVINGS:

TOTAL ENERGY SAVINGS (KWH/YR)*	21806.
ENERGY COST SAVINGS ($/YR @ 2.88 CENTS/KWH)	$ 627.19
DEMAND CHARGE SAVINGS ($/YR)**	$ 310.08
TOTAL COST SAVINGS ($/YR)	$ 937.27

* ENERGY SAVINGS BASED ON INSTALLATION OF NEW BOWLS DESIGNED TO DELIVER THE TESTED DISCHARGE AND PRESSURE AT 68.0% PUMP EFFICIENCY, 84.0 % MOTOR EFFICIENCY, AND AN OVERALL EFFICIENCY OF 57.1%.

** DEMAND CHARGE SAVINGS COMPUTED ASSUMING PUMP OPERATES 12 MONTHS PER YEAR.

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POTENTIAL ENERGY SAVINGS

OWNER OF PUMP: EAGLE RANCH WATER CO.

PUMP I.D.: #2

DATE OF PUMP TEST:5/20/91

	#2 (20-HP)	
	PRESENT	POTENTIAL
OVERALL PUMPING PLANT EFFICIENCY (%)	45.4	61.4
ASSUMED ELECTRIC MOTOR EFFICIENCY (%)	83.0	83.0
PUMP EFFICIENCY (%)	54.7	74.0
TOTAL VOLUME OF WATER PUMPED (MG/YR)	31.9	31.9
PUMP DISCHARGE (GPM)	265.5	265.5
PUMP OPERATION (HR/YR)	2000.0	2000.0
INPUT HORSEPOWER (HP)	21.3	15.7
INPUT POWER (KW)	15.9	11.7
ESTIMATED ENERGY USE (KWH/YR):	31814.	23495.

ESTIMATED ANNUAL SAVINGS:

TOTAL ENERGY SAVINGS (KWH/YR)*	8319.
ENERGY COST SAVINGS ($/YR @ 2.88 CENTS/KWH)	$ 239.29
DEMAND CHARGE SAVINGS ($/YR)**	$ 118.30
TOTAL COST SAVINGS ($/YR)	$ 357.59

* ENERGY SAVINGS BASED ON INSTALLATION OF NEW BOWLS DESIGNED TO DELIVER THE TESTED DISCHARGE AND PRESSURE AT 74.0% PUMP EFFICIENCY, 83.0 % MOTOR EFFICIENCY, AND AN OVERALL EFFICIENCY OF 61.4%.

** DEMAND CHARGE SAVINGS COMPUTED ASSUMING PUMP OPERATES 12 MONTHS PER YEAR.

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POTENTIAL ENERGY SAVINGS

OWNER OF PUMP: EAGLE RANCH WATER CO.

PUMP I.D.: #3

DATE OF PUMP TEST:5/20/91

	#3 (30-HP)	
	PRESENT	POTENTIAL
OVERALL PUMPING PLANT EFFICIENCY (%)	50.8	58.9
ASSUMED ELECIRIC MOTOR EFFICIENCY (%)	83.0	83.0
PUMP EFFICIENCY (%)	61.3	71.0
TOTAL VOLUME OF WATER PUMPED (MG/YR)	31.0	31.0
PUMP DISCHARGE (GPM)	258.5	258.5
PUMP OPERATION (HR/YR)	2000.0	2000.0
INPUT HORSEPOWER (HP)	28.9	24.9
INPUT POWER (KW)	21.5	18.6
ESTIMATED ENERGY USE (KWH/YR):	43095.	37165.

ESTIMATED ANNUAL SAVINGS:

TOTAL ENERGY SAVINGS (KWH/YR)*	5930.
ENERGY COST SAVINGS ($/YR @ 2.88 CENTS/KWH)	$ 170.56
DEMAND CHARGE SAVINGS ($/YR)**	$ 84.32
TOTAL COST SAVINGS ($/YR)	$ 254.88

* ENERGY SAVINGS BASED ON INSTALLATION OF NEW BOWLS DESIGNED TO DELIVER THE TESTED DISCHARGE AND PRESSURE AT 71.0% PUMP EFFICIENCY, 83.0 % MOTOR EFFICIENCY, AND AN OVERALL EFFICIENCY OF 58.9%.

** DEMAND CHARGE SAVINGS COMPUTED ASSUMING PUMP OPERATES 12 MONTHS PER YEAR.

POTENTIAL ENERGY SAVINGS

OWNER OF PUMP: EAGLE RANCH WATER CO.

PUMP I.D.: BOOSTER #1

DATE OF PUMP TEST:5/20/91

	BOOSTER #1 (10-HP)	
	PRESENT	POTENTIAL
OVERALL PUMPING PLANT EFFICIENCY (%)	48.4	57.1
ASSUMED ELECIRIC MOTOR EFFICIENCY (%)	86.5	86.5
PUMP EFFICIENCY (%)	56.0	66.0
TOTAL VOLUME OF WATER PUMPED (MG/YR)	18.7	18.7
PUMP DISCHARGE (GPM)	155.5	155.5
PUMP OPERATION (HR/YR)	2000.0	2000.0
INPUT HORSEPOWER (HP)	11.1	9.4
INPUT POWER (KW)	8.3	7.0
ESTIMATED ENERGY USE (KWH/YR):	16536.	14018.

ESTIMATED ANNUAL SAVINGS:

TOTAL ENERGY SAVINGS (KWH/YR)*	2517.
ENERGY COST SAVINGS ($/YR @ 2.88 CENTS/KWH)	$ 72.41
DEMAND CHARGE SAVINGS ($/YR)**	$ 35.80
TOTAL COST SAVINGS ($/YR)	$ 108.21

* ENERGY SAVINGS BASED ON INSTALLATION OF NEW BOWLS DESIGNED TO DELIVER THE TESTED DISCHARGE AND PRESSURE AT 66.0% PUMP EFFICIENCY, 86.5 % MOTOR EFFICIENCY, AND AN OVERALL EFFICIENCY OF 57.1%.

** DEMAND CHARGE SAVINGS COMPUTED ASSUMING PUMP OPERATES 12 MONTHS PER YEAR.

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POTENTIAL ENERGY SAVINGS

OWNER OF PUMP: EAGLE RANCH WATER CO.

PUMP I.D.: BOOSTER #2

DATE OF PUMP TEST:5/20/91

	BOOSTER #2 (25-HP)	
	PRESENT	POTENTIAL
OVERALL PUMPING PLANT EFFICIENCY (%)	23.0	62.0
ASSUMED ELECIRIC MOTOR EFFICIENCY (%)	88.5	88.5
PUMP EFFICIENCY (%)	26.0	70.0
TOTAL VOLUME OF WATER PUMPED (MG/YR)	13.8	13.8
PUMP DISCHARGE (GPM)	114.7	114.7
PUMP OPERATION (HR/YR)	2000.0	2000.0
INPUT HORSEPOWER (HP)	18.6	6.9
INPUT POWER (KW)	13.9	5.2
ESTIMATED ENERGY USE (KWH/YR):	27791.	10336.

ESTIMATED ANNUAL SAVINGS:

TOTAL ENERGY SAVINGS (KWH/YR)*	17455.
ENERGY COST SAVINGS ($/YR @ 2.88 CENTS/KWH)	$ 502.07
DEMAND CHARGE SAVINGS ($/YR)**	$ 248.22
TOTAL COST SAVINGS ($/YR)	$ 750.29

* ENERGY SAVINGS BASED ON INSTALLATION OF NEW BOWLS DESIGNED TO DELIVER THE TESTED DISCHARGE AND PRESSURE AT 70.0% PUMP EFFICIENCY, 88.5 % MOTOR EFFICIENCY, AND AN OVERALL EFFICIENCY OF 62.0%.

** DEMAND CHARGE SAVINGS COMPUTED ASSUMING PUMP OPERATES 12 MONTHS PER YEAR.

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RECOMMENDATIONS

The pump test results presented in this report are intended to be used as a guide to indicate present pumping plant performance and in identifying pumps where significant energy savings could be made by improving pump performance. The energy and dollar savings figures presented should only be used as estimates and represent system-wide savings--not necessarily savings that will be realized at individual pumping plants.

The costs of implementing corrective measures are not included in this report. It is the city's responsibility to investigate these costs and to determine whether pump repairs would be cost effective. Recommendations for the pumps tested are presented below.

SUBMERSIBLE WELL PUMPS

#1 SUBMERSIBLE

The overall pumping plant efficiency was calculated to be approximately 45 percent. According to the pump curve (see appendix C), this pump develops maximum efficiency at about the existing total dynamic head of 220 feet but with about 20 percent more flow. The overall plant efficiency of 45 percent is considered to be "fair" for this size of submersible pump (based on standards developed for electrically-driven centrifugal pumps). It may be possible to increase the overall plant efficiency up to a potential of 57 percent with an estimated savings of about $940 per year if repairs are made. Please note that the flow measurement was made by using the city's flowmeter which may be inaccurate and should be checked before making any repairs to the pump. Repair may not be cost effective, although a pump dealer may be contacted for a repair cost estimate.

#2 SUBMERSIBLE

Using the flow reading from the city's flowmeter (which may be inaccurate), the overall pumping plant efficiency was calculated

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to be approximately 45 percent. According to the pump curve (see appendix C), this pump is operating well below its head-capacity curve; it produces 265 gpm at 144 feet of head, but it should produce about 400 gpm at 160 feet of head. The overall plant efficiency of 45 percent is considered to be "fair" for this size of submersible pump. It may be possible to increase the overall plant efficiency up to a potential of about 61 percent with an estimated energy savings of about $360 per year if repairs are made.

IDWR noted that a gate valve on the discharge of the pump was partially closed. Your representative said this was necessary to prevent the pump from pumping air. IDWR measured a pumping water level of 133.8 feet, and the well log indicates a pumping water level of 140 feet at 400 to 470 gpm. A representative from Boise Valley Pump said they sold 128 feet of wire for this pump. The "SUBMERGENCE" curve on the pump curve indicates a required submergence of about 6 feet. This means the bottom bowl assembly should be submerged by at least 6 feet of water. Given the measured pumping water level of 133.8 feet and the 128 feet of wire, it is very likely that the pump is not submerged enough to meet its requirements (which may be cause to part of its low efficiency). Therefore, this pump should be set lower in the well. If the pump is lowered, it may be safe to open the gate valve to full open. A qualified pump dealer should be contacted for a repair cost estimate.

#3 SUBMERSIBLE

The #3 submersible pump was operating at an overall pumping plant efficiency of approximately 51 percent, which is the best of the three tested. According to the pump curve (see appendix C), this pump is operating somewhat below its head-capacity curve; it produces 258 gpm at 225 feet of head, but it was designed to produce about 300 gpm at 240 feet of head. The overall plant efficiency of 51 percent is considered to be "good" for this size of submersible pump. It may be possible to increase the overall

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plant efficiency up to a potential of about 59 percent with an estimated energy savings of about $250 per year if repairs are made, although it is doubtful that repair would be cost effective and is therefore not recommended.

Please note that the city's flowmeter indicated a flow of 310 gpm, and IDWR's meter indicated 258 gpm. The efficiency was calculated by using the 258 gpm flow, and if the flow is actually higher than 258 gpm, the pump's efficiency is better than 51 percent.

Also note that the voltage in the three legs was not balanced; Voltage between legs 1 and 2 = 482 V, legs 1 and 3 = 484 V, and legs 2 and 3 = 492 V. Voltage imbalances should be less than 1 percent of the average voltage. This imbalance can lower the efficiency.

BOOSTER PUMPS (all located at the #2 pumping station)

BOOSTER #1

The #1 booster (10-hp) was operating with an overall efficiency of about 48 percent. This pump delivered a flow of 155 gpm at 137 feet of head (pressure = 61.5 psi). The enclosed pump curve (see appendix C) shows this pump is operating at its rated head condition, but with a reduced flow rate (it is rated at 200 gpm). Energy savings are projected at about $100 if this pump was repaired to an optimum efficiency of about 57 percent. It is doubtful that repair would be cost effective, unless the extra flow is needed.

Please note that the voltage in the three legs was slightly imbalanced; Voltage between leg 1 and 2 = 480 V, leg 1 and 3 = 493 V, and leg 2 and 3 = 480 V. Voltage imbalance should be less than 1 percent of the average voltage. Unbalanced voltages can lower efficiencies.

BOOSTER #2

The #2 booster (25-hp) was operating with an overall efficiency of 23 percent. The enclosed pump curve (see appendix

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C) shows this pump operating with a severely reduced flow rate. The pump is designed to produce 450 gpm at 138 feet of head, but IDWR measured only 115 gpm at 148 feet of head. Unfortunately, the instrument that IDWR used to measure flow was installed in a poor location, and the 115 gpm flow reading may be in error. It is also possible that the system's demand for water was very low at this time, and the pump could not produce its designed flow.

According to the pump curve, at 148 feet of head (66.5 psi), a new pump can only produce about 330 gpm at a pump efficiency of about 66 percent. It could obtain a better efficiency (71 to 72 percent) and deliver more flow if the pressure could be lowered to around 61 psi.

This pump should be re-tested (at a time of high demand) to determine if the efficiency and flow are actually this low. If they are, repair may be cost effective.

BOOSTER #3

The efficiency of the #3 booster (25-hp) could not be determined. Excessive slag in the access port prevented insertion of IDWR's Hall meter, which is used to measure the flow of water. A flow measurement is necessary to compute efficiency.

Voltage, amperage, and power factor measurements indicated the motor was drawing only 11.1 horsepower, and it appears as though the motor was severely under-loaded during the measurement. It is probable that the system's demand was very light at that moment, and therefore, the pump could not supply the quantity of water it is designed for.

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APPENDIX A

FINANCING

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FINANCING

The Idaho Department of Water Resources currently administers a program to assist municipalities with financing of energy conservation projects. While the financing program is intended to complement the pump testing program by financing pump improvements, any energy conservation project that meets the criteria of the program can qualify.

Financing is in the form of a loan with an interest rate of six percent. Loans must be repaid within five years. In order to qualify for a loan the proposed project must be able to demonstrate that the savings resulting from energy conservation measures will repay the amount of the loan in 10 years or less. Additional criteria are listed on Attachment 1. The maximum amount that can be borrowed is $50,000. Financing will be available only as long as the money allocated for the program is available. Attachment 2 is a sample application form.

Since the financing through this program is in the form of a long term loan, many cities have previously expressed concern about the legality of a city incurring long term debt. Traditionally, the financing of municipal projects has not been in the form of loans because of this restriction. However, according to an opinion provided by the Idaho State Attorney General, improvements to a municipal pumping plant are classified as "regular and necessary," therefore eligible for financing through a long-term loan. One advantage of financing pump improvements with a loan is that money does not have to be budgeted beforehand or bonds do not have to be sold. The savings generated by the pump improvements should be sufficient to make loan payments.

Certainly other forms of financing more traditionally used by cities can also be used to make pump system improvements. Some of these financing programs are discussed in Attachment 3.

GOVERNMENTAL, AGRICULTURAL, AND SCHOOLS, HOSPITALS, AND HEALTH CARE FACILITIES SECTORS

CRITERIA FOR TECHNICAL AND ECONOMIC FEASIBILITY REVIEW BY THE DEPARTMENT OF WATER RESOURCES

TO BE ELIGIBLE, PROJECTS MUST:

1. Be conducted within the state of Idaho.
2. Be consistent with the State Energy Plan.
3. Demonstrate energy conservation in governmental, agricultural, or schools, hospitals, health care facilities sectors as defined by the Department.
4. Demonstrate the ability to conserve energy through efficient energy use or the utilization of renewable energy resources which results in energy savings based upon a net reduction in the use of non-renewable resources.
5. Utilize existing, reliable technologies.
6. Show displacement of conventional energy source(s).
7. Show energy savings.
8. Demonstrate a simple payback period of ten years or less for the <u>total</u> cost of the project based on estimated annual energy savings. This may be subject to waiver in unusual circumstances.
9. Meet federal and state air and water quality standards.

PROJECTS MAY:

1. Not include new constuction, EXCEPT for utilization of a renewable resource. Project eligiblity for renewable resources will be determined on a case-by-case basis. Retrofits to existing irrigation systems that meet program riteria are eligible. Irrigation systems on land not previously irrigated do not qualify as no energy savings can be documented.
2. Not utilize program funds to take advantage of an interest rate lower than one on an existing permanent loan (no refinancing) or pay for measures in progress or completed.

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ADDITIONAL LOAN CRITERIA INCLUDE:

1. No minimum loan amount; maximum of $50,000.
2. Repayment of loans in five years or less.
3. Financing of an interest rate of 6 percent.
4. Completion of loan application and beginning of project within 90 days following approval of project by the Department of Water Resources. Failure to do this will result in revocation of the loan and require submission of a new application to the Department.
5. Providing water rights information for irrigation and geothermal projects for ascertaining legal compliance with water rights requirements.
6. Applicant must be the direct user/benefitter of conservation measures funded by this program.
7. Financing of hydroelectric projects only when found to be in the public interest.
8. Changing of fuel sources only if the change results in an increased Btu efficiency.

LOAN APPLICATION PROCESS:

1. Return completed application form to the Department of Water Resources, Statehouse Mail, Boise, Idaho 83720.
2. Agricultural sector applicants must include a current financial statement and any other financial information requested to be reviewed by the Agricultural Loan Committee.
3. Applicants will be notified in writing of projects' approval or denial based on the analysis of economic and technical feasibility by staff and, for the agricultural sector, the additional decision of the Loan Committee regarding credit rating.
4. If approved, payment amount and schedule will be calculated and promissory notes and any necessary security agreements will be provided for applicants' signatures.

EFFECTIVE DATE OF THESE GUIDELINES - JANUARY 16, 1989
OTHER CHANGES MAY OCCUR AS NECESSARYBASED ON AVAILABILITY OF FUNDS

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IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FORM
ENERGY CONSERVATION AND/OR RENEWABLE RESOURCE PROJECTS

Applicant _____

Address _____

City _____ Zip _____

Phone _____ Evening _____

Contact Person _____

Government ☐

Hospital/Health Care/School ☐

Agriculture ☐

Estimated Total Cost _____ Amount of Loan Requested _____

Estimated Startup Date _____ Estimated Completion Date _____

Estimated Annual Energy Savings $ _____

DESCRIPTION OF PROJECT:

Provide description adequate to determine technical and economic feasibility of project. No specific format is required. Describe existing conditions, proposed improvements, and the itemized cost of improvements. Include such things as past energy costs, system capacities, types of equipment and materials needed, building size or square footage, square footage of window/door area, fuel sources, and acreage for irrigation projects. Also provide any calculations and any other items pertinent to the project. Include drawings and diagrams as necessary. For geothermal projects provide legal descriptions. Where appropriate give brand name of equipment. Be prepared to provide additional information if requested by review staff. Please continue description on additional paper if necessary.

_____

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ESTIMATED ANNUAL SAVINGS

Conservation Measures	Estimated Cost	Electric (kWh)		Fossil Fuel		Total Dollar Savings	Simple Payback In Years
		Units Saved	Cost/kWh	Units Saved	Cost/Unit		

PROJECTS MUST COMPLY WITH APPLICABLE FEDERAL REGULATIONS, AND STATE, COUNTY OR MUNICIPAL HEALTH, BUILDING, HOUSING, FIRE PREVENTION, AND HOUSING MAINTENANCE CODES.

I hereby certify that the above information is correct to the best of my knowledge.

Please Print Name _____ Signature _____ Date _____

Return to: Idaho Department of Water Resources
Energy Resources Bureau
Statehouse Mail
Attention: Joan Sipple
Boise, ID 83720

ATTACHMENT 3

LOCAL UNITS OF GOVERNMENT
FINANCING ALTERNATIVES

A. Grants

1. Block Grants

The Community Development Block Grant program through the Idaho Department of Commerce is available to local units of government. Funding priorities change under this program and a match of 20 to 25 percent is usually required. Contact can be made with the Idaho Department of Commerce at (208) 334-3591.

2. Urban Development Action Grants

Urban Development Action Grants (UDAG) are administered by the Department of Housing and Urban Development. Communities and commercial firms in partnership with communities can apply for these grants. These funds are primarily for economic development but energy conservation programs will be considered. For additional information on UDAG, contact your local HUD office or the Department of Commerce at (208) 344-2470.

3. The U.S. Department of Energy and Bonneville Power Administration

The U.S. Department of Energy (DOE) and the Bonneville Power Administration (BPA) from time to time offer special grant programs for local units of government, institutions and commercial firms. Contact should be made to see if a specific project will fit into any of their special demonstration programs.

Contact can be made with the U.S. Department of Energy, Denver Office, at (303) 236-2000 and with the Bonneville Power Administration, Boise Office, at (208) 334-9137.

4. Other Agencies

Other agencies which offer grants from time to time for energy conservation are the Economic Development Administration (208) 334-1521, and the Farmers Home Administration (contact your local office).

5. Private Foundation Grants

Private foundations throughout the Northwest participate in administering grants through an organization called the Foundation Center which has a regional information outlet in the reference section of the Caldwell Public Library in Caldwell, Idaho. For information on the use of the "Foundation Directory," and the most recent grants admini- stered by private foundations in Idaho, contact the Caldwell Public Library at (208) 459-3242.

B. Shared Savings and Energy Service Firms

1. Shared Savings Companies

These are firms that finance and install energy conservation equipment as well as provide management and training to staff on operations and maintenance. Shared savings agreements are becoming popular because of the small capital outlay required by the building owner.

The contractor installs the energy conservation measures in the building at his cost and will then share the savings with the building owner on an agreed upon percentage. This type of

agreement is good in the respect that if no savings occur, no money must be paid to the contractor. In this type of agreement the contractor will be on site often, as his profits depend on his equipment's performance.

One disadvantage with shared savings agreements is that if the use of the building changes, the contractor will want to change the contract. Make sure that there is some flexibility in the contract for this purpose.

2. Energy Service Companies

These firms are similar to shared savings companies in that they provide financing, equipment, and training for the conservation equipment they install. They differ in that Energy Service Companies contract for a specified portion of your energy bill to provide you with utility service at a prescribed level of comfort. The equipment is installed and maintained by the contractor at no expense to the building owner. The building owner or occupant pays the monthly contract amount in place of his regular utility bill. The contractor pays the building owner's utility bills and profits from savings above those passed on to the owner.

The advantages to energy service companies contracts are about the same as shared savings companies, no initial capital outlay, little or no maintenance cost on equipment and immediate savings reflected in the bill. Disadvantages include possible lack of control over building operation and maintenance, the owner has the shared savings, and a change in building use can change the contract conditions.

C. Leases

Leases today have many variations and can be changed to

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suit just about any situation. A lease is when the lessor (a company or contractor) finances the purchase of equipment for the lessee (the building owner). The lessee pays for the equipment in monthly installments over a set period of time. The equipment is usually financed at 100 percent of the cost, and payment schedules are relatively flexible. Leases are used to avoid high initial capital outlays and the ownership of outdated or worn-out equipment. At the end of most leases the equipment can be purchased for a pre-determined price. The price can vary depending on the amount you want to pay per month.

The lease has the advantages of low up-front capital outlay, and all savings going to the building owner. The disadvantages are that if the lease is terminated, penalties can be expensive to the lessee, and an audit must be conducted and paid for by the lessee before the retrofit measures can be done.

D. Loan Programs

Loans are available from conventional commercial lending institutions and through some federal and state agencies.

1. Low Interest Energy Conservation Loans

One or more financial institutions will be selected by IDWR to administer a low interest energy loan program using funds from the Exxon Oil overcharge monies. The program will provide an opportunity to borrow low-interest funds to pay for the installation of energy conservation measures and renewable resource applications. Projects must show enough energy savings to pay off their loans in ten years or less. Details of the loan program will be publicized by the selected administrator(s) of the loan program, and by IDWR.

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2. Water Resource Finance Program

Idaho Water Resource Board financial assistance programs have, and can continue to play a major role in the development and/or rehabilitation of adequate water supply facilities in Idaho. Accordingly, the purpose of the Board's finance programs is to provide water project financing at favorable interest costs and terms.

To be eligible, a water project must have as its primary purpose a water use which implements the State Water Plan. These projects may include but are not limited to the drainage or irrigation of agricultural property for economic benefit or the provision of domestic and municipal water supplies, electricity, flood control, fish and wildlife, recreation, aquaculture, water quality or reclamation.

The Idaho Water Resource Board's finance program consists of two elements:

1. The Revolving Development Account
2. The Water Management Account

The approach to obtaining a loan or grant from the Board is similar for both program elements.

For information on eligibility, fees, interest rates, etc., contact: Frank Sherman, (208) 327-7985.

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APPENDIX B

PUMP TEST SUMMARIES

PUMP TEST SUMMARY

OWNER OF PUMP: EAGLE RANCH WATER CO.

PUMP I.D.: #1 (SUBMERSIBLE)

DATE OF PUMP TEST:5/20/91

TOTAL DYNAMIC HEAD:

A) PUMPING WATER LEVEL 59.00 FT (WATER LEVEL TO CENTER OF DISCHARGE PIPE)
B) HEIGHT OF PRESSURE GAUGE 0.00 FT (CENTER OF DISCHARGE PIPE TO GAUGE)
C) FRICTION LOSS 8.75 FT (PUMP INTAKE TO GAUGE)
D) DISCHARGE PRESSURE 66.00 PSI (152.46 FT)

TOTAL DYNAMIC HEAD (A+B+C+D)= 220.21 FT

FLOW MEASUREMENT:

A)	COLLINS METER	0.00 GPM
B)	HALL METER	0.00 GPM
C)	ANNUBAR METER	0.00 GPM
D)	CITY METER (McCROMETER)	539.20 GPM

INPUT HORSEPOWER:

KW= 10. REV X 28.8 KH X 1.0 CTR X 1.00 PTR X 3.6 / 20.71 SEC= 50.06

HP= 67.08

OUTPUT HORSEPOWER:

HP= 539.20 GPM X 220.21 TDH / 3960= 29.98

PLANT EFFICIENCY:

EFF= OUTPUT HP / INPUT HP X 100= 44.70%

PUMP TEST SUMMARY

OWNER OF PUMP: EAGLE RANCH WATER CO.

PUMP I.D.: #2 (SUBMERSIBLE)

DATE OF PUMP TEST:5/20/91

TOTAL DYNAMIC HEAD:

A) PUMPING WATER LEVEL 133.80 FT (WATER LEVEL TO CENTER OF DISCHARGE PIPE)
B) HEIGHT OF PRESSURE GAUGE 0.00 FT (CENTER OF DISCHARGE PIPE TO GAUGE)
C) FRICTION LOSS 8.15 FT (PUMP INTAKE TO GAUGE)
D) DISCHARGE PRESSURE 1.00 PSI (2.31 FT)

TOTAL DYNAMIC HEAD (A+B+C+D)= 144.26 FT

FLOW MEASUREMENT:

A)	COLLINS METER	0.00 GPM
B)	HALL METER	0.00 GPM
C)	ANNUBAR METER	0.00 GPM
D)	CITY METER (McCROMETER)	265.50 GPM

INPUT HORSEPOWER:

KW= 23.3 AMP X 480.7 VOLTS X 0.82 PF X 1.732/1000= 15.91

HP=1.34 X 15.91= 21.32

OUTPUT HORSEPOWER:

HP= 265.50 GPM X 144.26 TDH / 3960= 9.67

PLANT EFFICIENCY:

EFF= OUTPUT HP / INPUT HP X 100= 45.38%

1991

PUMP TEST SUMMARY

OWNER OF PUMP: EAGLE RANCH WATER CO.

PUMP I.D.: #3 (SUBMERSIBLE)

DATE OF PUMP TEST:5/20/91

TOTAL DYNAMIC HEAD:

A) PUMPING WATER LEVEL 69.17 FT (WATER LEVEL TO CENTER OF DISCHARGE PIPE)
B) HEIGHT OF PRESSURE GAUGE 0.50 FT (CENTER OF DISCHARGE PIPE TO GAUGE)
C) FRICTION LOSS 3.90 FT (PUMP INTAKE TO GAUGE)
D) DISCHARGE PRESSURE 65.50 PSI (151.30 FT)

TOTAL DYNAMIC HEAD (A+B+C+D)= 224.88 FT

FLOW MEASUREMENT:

A)	COLLINS METER	0.00 GPM
B)	HALL METER	0.00 GPM
C)	ANNUBAR METER	0.00 GPM
D)	ULTRASONIC METER	258.50 GPM

INPUT HORSEPOWER:

KW= 3. REV X 57.6 KH X 1.0 CIR X 1.00 PIR X 3.6 / 28.87 SEC= 21.55

HP= 28.87

OUTPUT HORSEPOWER:

HP= 258.50 GPM X 224.88 TDH / 3960= 14.68

PLANT EFFICIENCY:

EFF= OUTPUT HP / INPUT HP X 100= 50.84%

OCT 01 1991

PUMP TEST SUMMARY

OWNER OF PUMP: EAGLE RANCH WATER CO.

PUMP I.D.: BOOSTER #1 (AT PUMPING STATION #2)

DATE OF PUMP TEST:5/20/91

TOTAL DYNAMIC HEAD:

A) PUMPING WATER LEVEL -6.00* FT (WATER LEVEL TO CENTER OF DISCHARGE PIPE)
B) HEIGHT OF PRESSURE GAUGE 0.50 FT (CENTER OF DISCHARGE PIPE TO GAUGE)
C) FRICTION LOSS 0.00 FT (PUMP INTAKE TO GAUGE)
D) DISCHARGE PRESSURE 61.50 PSI (142.07 FT)

TOTAL DYNAMIC HEAD (A+B+C+D)= 136.57 FT

FLOW MEASUREMENT:

A)	COLLINS METER	0.00 GPM
B)	HALL METER	155.54 GPM
C)	ANNUBAR METER	0.00 GPM

INPUT HORSEPOWER:

KW= 11.2 AMP X 484.3 VOLTS X 0.88 PF X 1.732/1000= 8.27

HP=1.34 X 8.27= 11.08

OUTPUT HORSEPOWER:

HP= 155.54 GPM X 136.57 TDH / 3960= 5.36

PLANT EFFICIENCY:

EFF= OUTPUT HP / INPUT HP X 100= 48.42%

* Water level in the tank was 6 feet above the pump's intake.

OCT 01 1991

PUMP TEST SUMMARY

OWNER OF PUMP: EAGLE RANCH WATER CO.

PUMP I.D.: BOOSTER #2 (AT PUMPING STATION #2)

DATE OF PUMP TEST:5/20/91

TOTAL DYNAMIC HEAD:

A) PUMPING WATER LEVEL -6.00* FT (WATER LEVEL TO CENTER OF DISCHARGE PIPE)
B) HEIGHT OF PRESSURE GAUGE 0.50 FT (CENTER OF DISCHARGE PIPE TO GAUGE)
C) FRICTION LOSS 0.00 FT (PUMP INTAKE TO GAUGE)
D) DISCHARGE PRESSURE 66.50 PSI (153.61 FT)

TOTAL DYNAMIC HEAD (A+B+C+D)= 148.11 FT

FLOW MEASUREMENT:

A)	COLLINS METER	0.00 GPM
B)	HALL METER	114.74 GPM
C)	ANNUBAR METER	0.00 GPM

INPUT HORSEPOWER:

KW= 22.2 AMP X 478.7 VOLTS X 0.75 PF X 1.732/1000= 13.90

HP=1.34 X 13.90= 18.62

OUTPUT HORSEPOWER:

HP= 114.74 GPM X 148.11 TDH / 3960= 4.29

PLANT EFFICIENCY:

EFF= OUTPUT HP / INPUT HP X 100= 23.05%

* Water level in the tank was 6 feet above the pump's intake.

1991

APPENDIX C

PUMP CHARACTERISTIC CURVES

BERKELEY PUMP COMPANY

BERKELEY®

SUBMERSIBLE TURBINE PUMPS

8" AND 10" BOWLS

PERFORMANCE CURVES

CURVE	2500
DATE	3-1-84
PAGE	7.02
SUPERSEDES	
All Previously Issued	
2800 Curves	

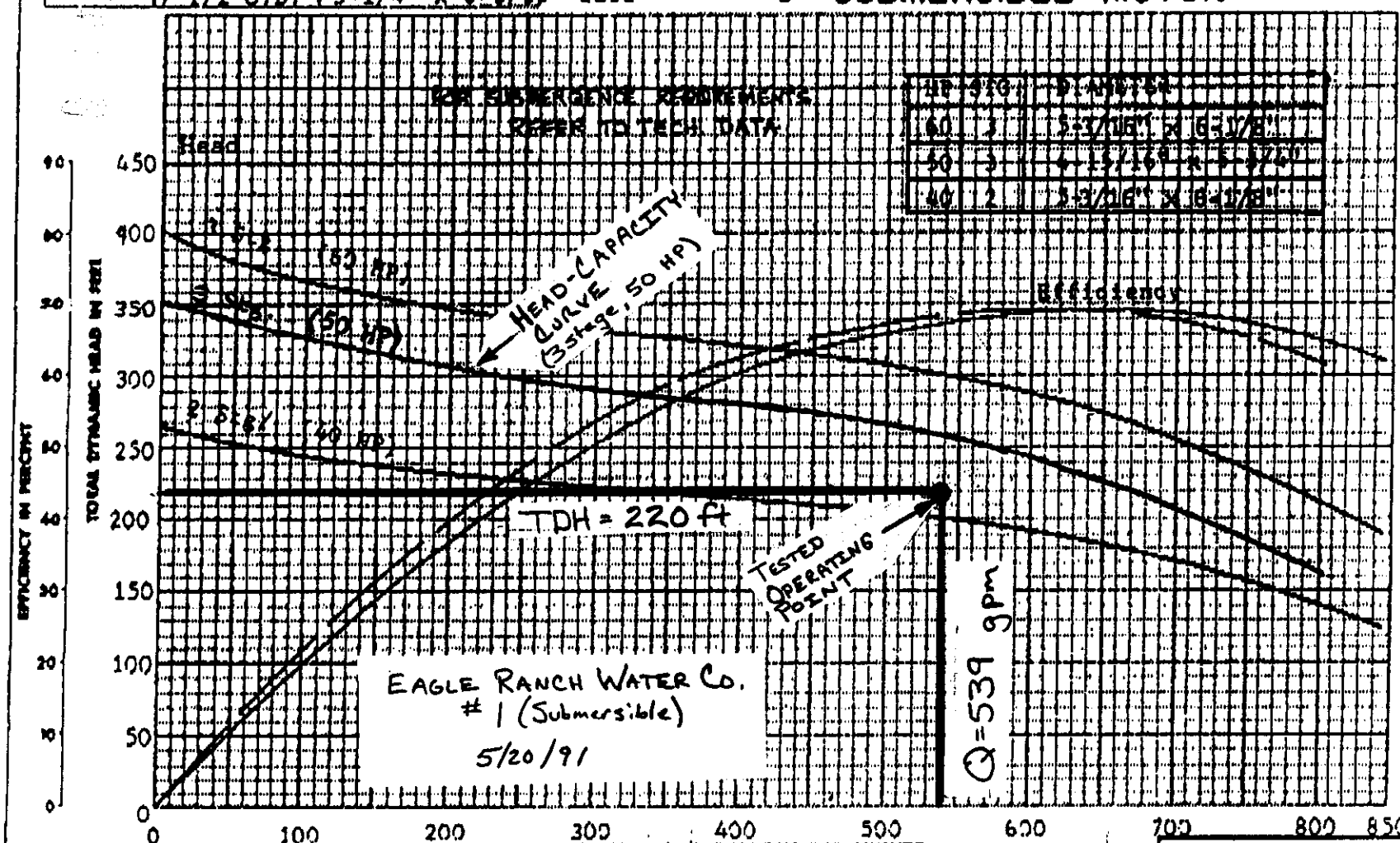
	Bowl	Impeller
Material	C.I.	Brz.
Part. No.	M-3608	M-895
Mach. No.	M-1012	M-895
Diameter	7-1/2"O.D.	5-1/4" x 6-3/16" full

Based on T= 3712 Test of 3 Stage Pump.
Performance for multi Stage Pump.

8" SUBMERSIBLE MOTOR

FOR SUBMERGENCE REQUIREMENTS REFER TO TECH. DATA.

HP	RPM	DIAMETER
60	3	5-3/16" x 6-1/8"
50	3	5-3/16" x 6-1/8"
40	2	5-3/16" x 6-1/8"



C-8466 Issue Date 1-24-79 (Supersedes New Dated) 3600 nominal R.P.M.

MODEL 8S4H

BERKELEY®

SUBMERSIBLE TURBINE PUMPS
6" AND 7" BOWLS
PERFORMANCE CURVES

CURVE	2500
DATE	4-1-85
PAGE	5.01
SUPERSEDES	
Curve 2500	Page 5.01
Dated 6-1-83	

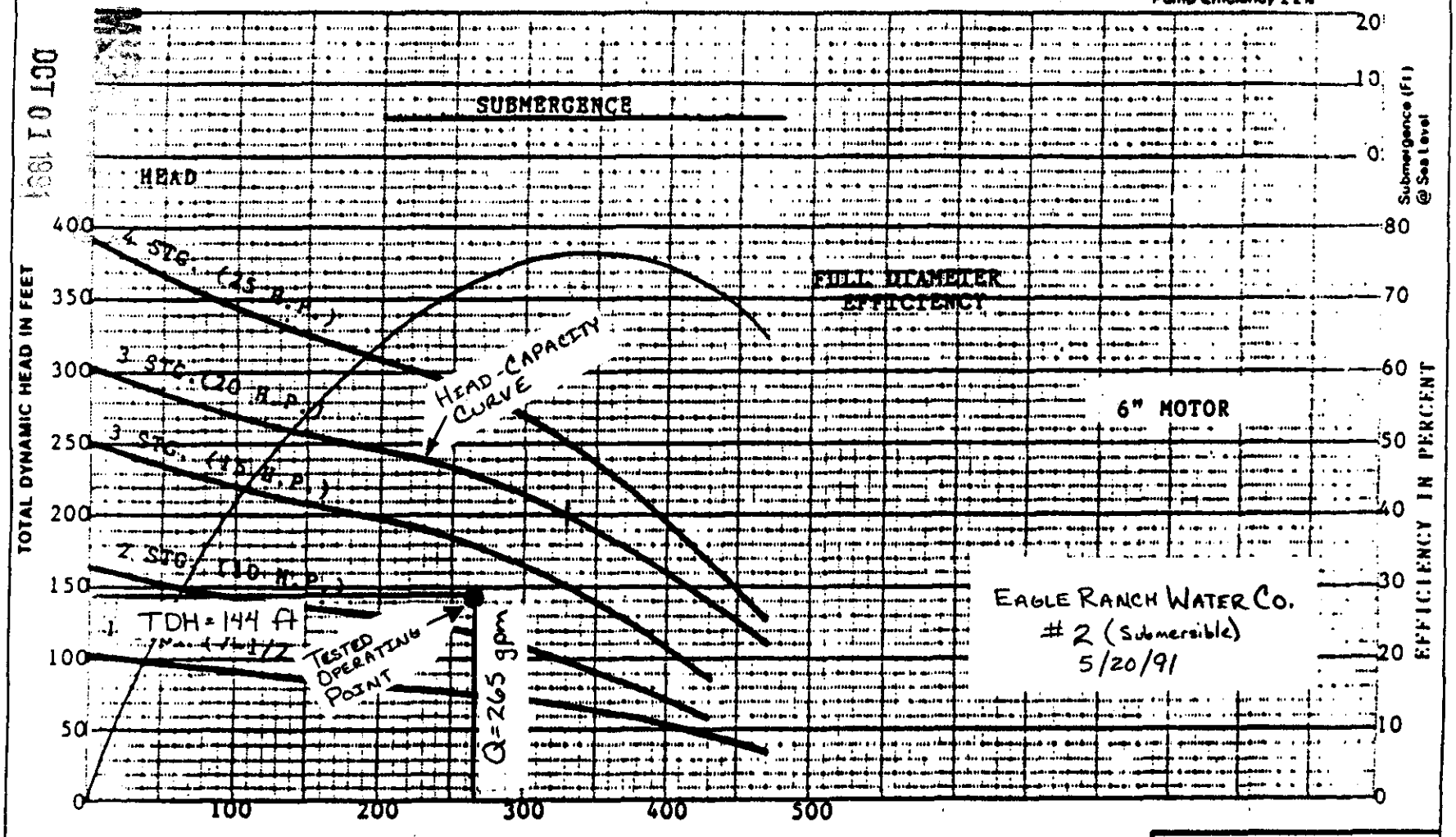
	Bowl	Impeller	HP	STG	DIAMETER	HP	STG	DIAMETER
Material	C.I.	BRZ.	25	4	4-9/16" X 5-5/16"	10	2	4-3/16" X 5"
Part No	M-1975	M-2103	20	3	4-3/4" X 5-3/8" FULL	7½	1	4-3/4" X 5-3/8" FULL
Mach No	M-6019	M-2103	15	3	4-3/16" X 5"			

Based on Test T- 3851

Performance shown for clear fresh water @ 70° F

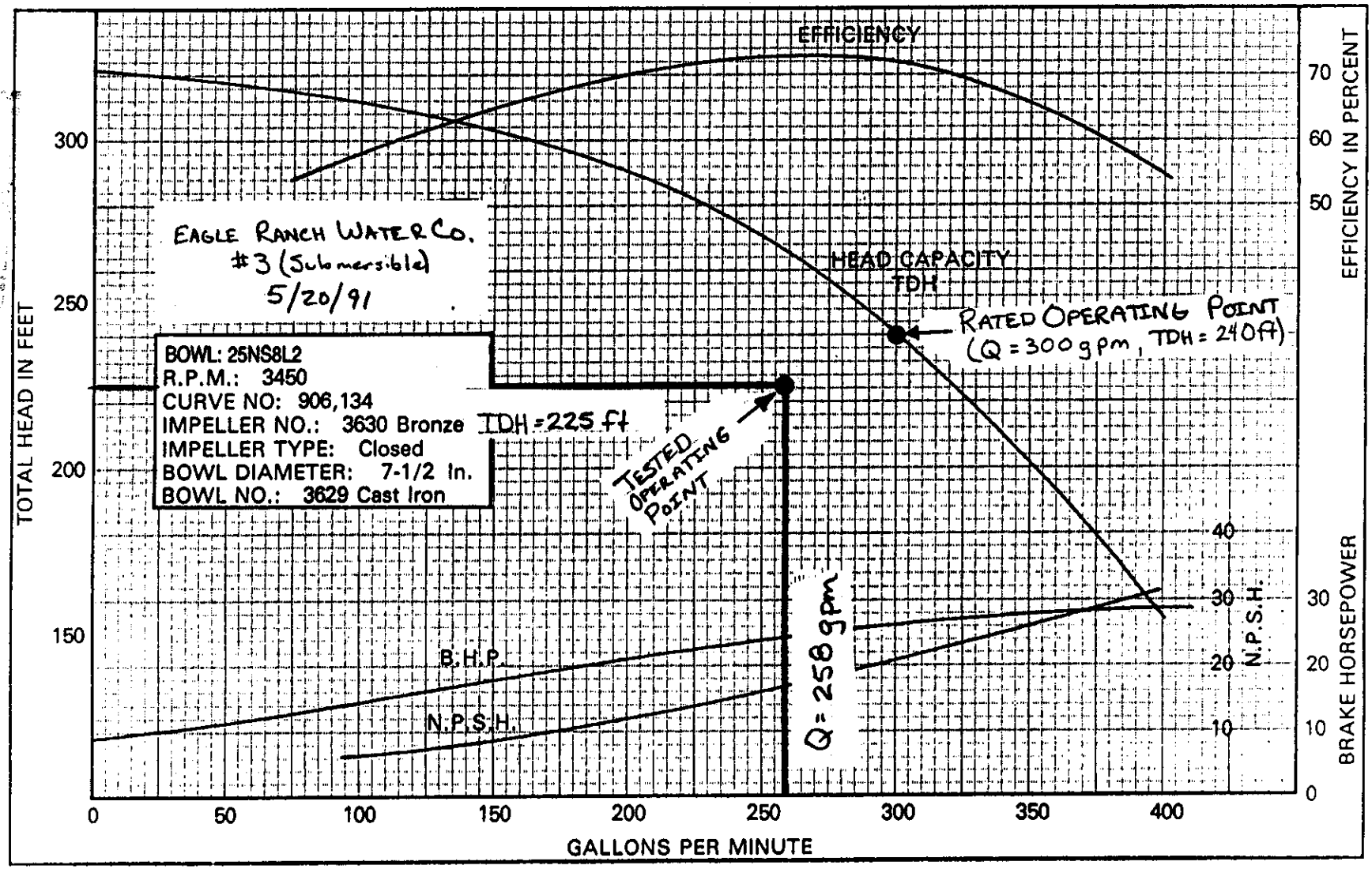
Submergence shown from bottom of suction case (bracket)

Pump Efficiency ± 2%



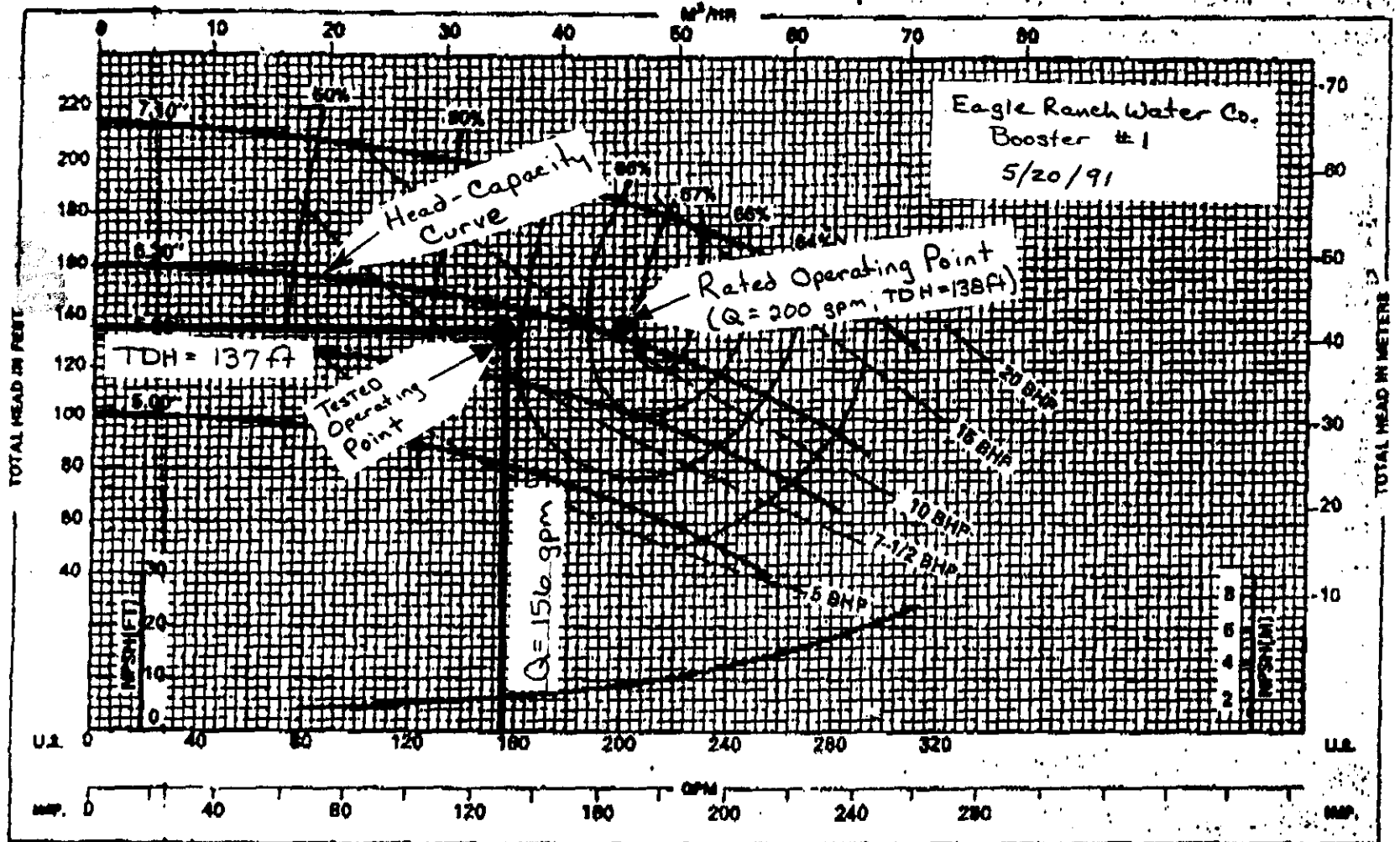
C-8926 Issue Date 8/8/84 (Supersedes C-8824 Dated 2/9/83) 3600 NOM R.P.M.

MODEL 7S3L


EFFICIENCY
EAGLE RANCH WATER CO.
#3 (Submersible)
5/20/91
BOWL: 25NS8L2
R.P.M.: 3450
CURVE NO: 906,134
IMPELLER NO.: 3630 Bronze
IMPELLER TYPE: Closed
BOWL DIAMETER: 7-1/2 In.
BOWL NO.: 3629 Cast Iron
TDH = 225 ft
TESTED OPERATING POINT
HEAD CAPACITY TDH
RATED OPERATING POINT
(Q = 300 gpm, TDH = 240 ft)
Q = 258 gpm
B.H.P.
N.P.S.H.
TOTAL HEAD IN FEET
EFFICIENCY IN PERCENT
BRAKE HORSEPOWER
N.P.S.H.
GALLONS PER MINUTE
0
50
100
150
200
250
300
350
400
150
200
250
300
0
10
20
30
40
0
10
20
30
50
60
70

MODEL 2570-5

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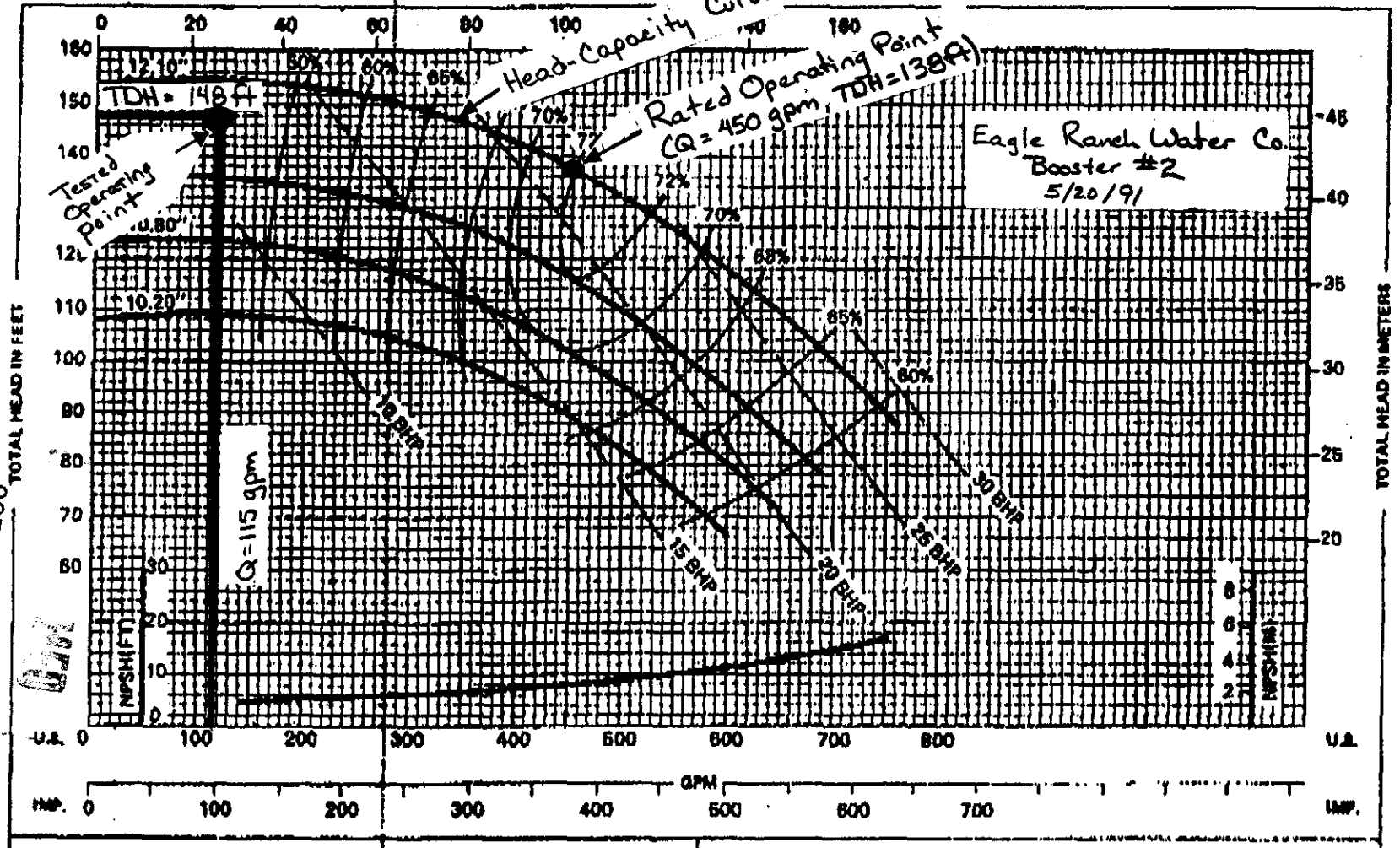


PACIFIC PUMPING COMPANY

MODEL	2570-5	IMPELLER NO.	580
SIZE	2-1/2"x2-1/2"x7"	IMPELLER EYE AREA	4.45 in²
TYPE	VL	DATE	4-74
RPM	3500	CURVE NO.	13930-1

FORM AAA 12/84

MODEL 4012-5



PACIFIC PUMPING COMPANY

MODEL	4012-5	IMPELLER NO.	747
SIZE	4"x4"x12"	IMPELLER EYE AREA	9.30 IN²
TYPE	VL	DATE	4-74
RPM	1750	CURVE NO.	13994-1

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APPENDIX D

HOW TO MONITOR PUMP EFFICIENCY

OCT 0 1 1991

HOW TO MONITOR PUMP EFFICIENCY

While it is important to have your pumps operating as efficiently as possible to minimize energy costs, it is equally important to maintain high efficiencies once they have been attained. It is not too difficult to determine pumping plant efficiency yourself for many pumps, and for those where it is not easily determined there are usually enough clues to indicate decreasing efficiency. Pump efficiency should be checked annually to identify problems before they become too serious or costly. The information needed to determine pumping plant efficiency is:

1) Flow rate,
2) Discharge pressure,
3) Pumping water level, and
4) Power input.

Flow Rate

Most municipal pumps have flow meters installed in their discharge pipes. Some meters indicate instantaneous flow by means of a needle and dial. Others have flow totalizers, similar to automobile odometers, that indicate total volume of flow. Many meters give both types of flow measurements. The most accurate method of measuring flow is, when possible, to time with a stopwatch a given number of totalizer revolutions. Needle indicators have a tendency to bounce, making accurate readings difficult. By increasing or decreasing the flow meter reading according to its accuracy as given in Table 1 of this report, an accurate flow rate can be determined.

At pumping plants where no flow meters are installed, it is not possible to accurately estimate flow.

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Discharge Pressure

Discharge pressure can be determined simply be reading a pressure gauge installed near the pump discharge. Gauges should be corrected for accuracy according to the gauge errors as given in Table 1 of this report. Alternatively, a new gauge can be purchased.

A gradual or sudden decrease or increase in discharge pressure can indicate a problem in the pump. On the other hand, a decrease or increase could also indicate a problem with the gauge. If changes in discharge pressure do become apparent, check the accuracy of the gauge before assuming a problem with the pump.

Pumping Water Level

Pumping water level can often be measured using an air line device which is frequently installed in municipal wells. The air line is simply a plastic or copper tube attached to the pump column and extending down the well until the bottom segment of the tube is submerged. The top end of the tube is attached to a pressure gauge. To use the line, simply pump air into it until the pressure gauge reading becomes steady and no longer rises. At this point any water that filled the submerged segment of the tube has been expelled and any additional air added will be blown out the end of the tube into the water. To determine pumping water level it is often as simple as taking a water level reading from the gauge connected to the air line. Although the gauge is just a simple pressure gauge, many are calibrated to give a water level reading in feet. Other gauges are calibrated in psi, in which a conversion to feet is necessary. The conversion is:

$$PWL = LL - 2.31\ P$$

where PWL = pumping water level (ft)
LL = air line length (ft)
P = gauge pressure (psi)

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Notice that the length of the air line must be known in order for a normal pressure gauge to be useful.

It is also possible, if the air line length is known, to check the accuracy of an air line gauge by using an accurate pressure gauge.

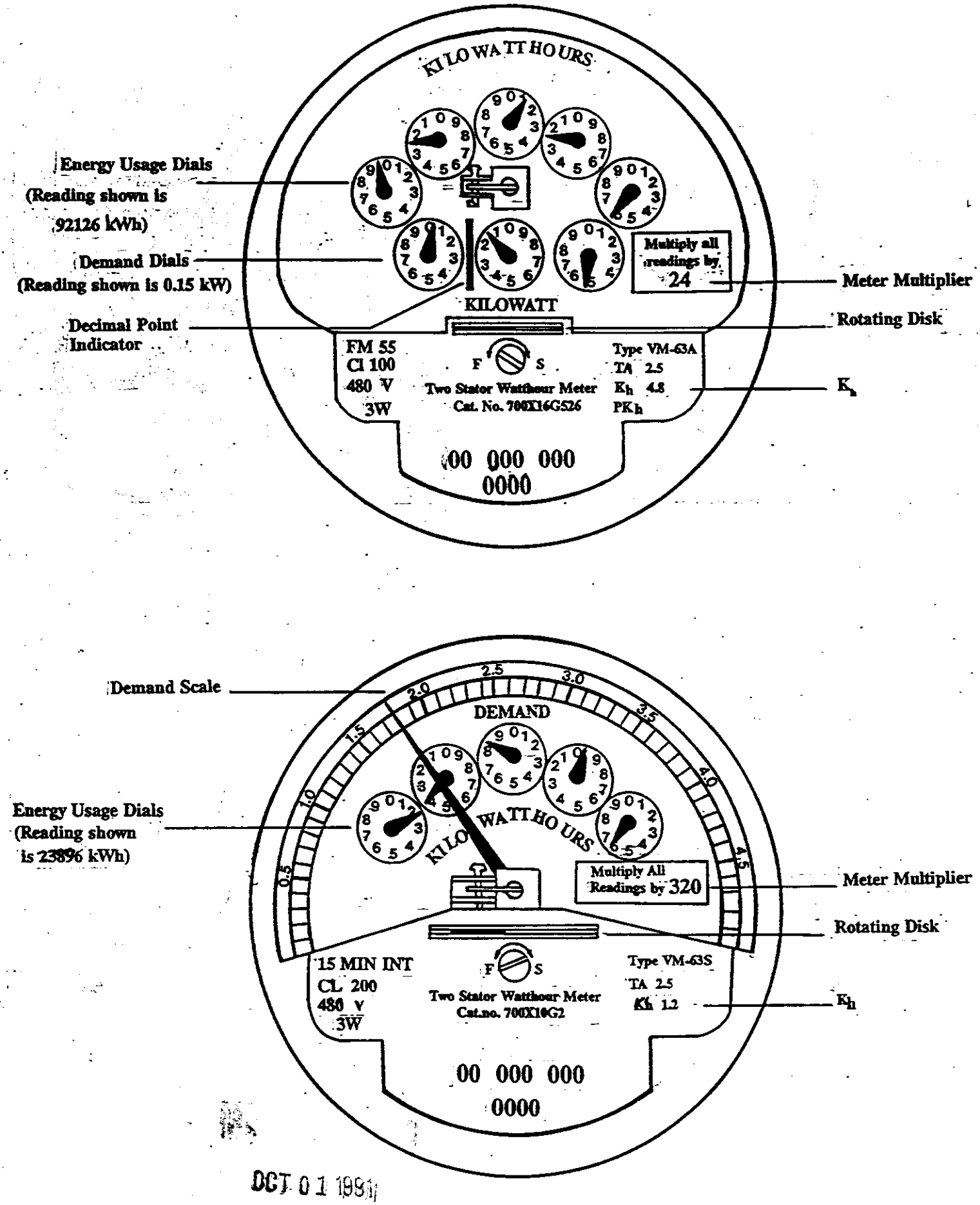
At pumping plants where no air line is installed, pumping water level can only be determined by dropping a probe into the well. For some wells this is a simple procedure, however for many wells it is quite difficult and often is impossible.

Power Input

Power input can be determined by measuring several electrical quantities from inside the electrical panel, or by timing rotations of the disk inside the utility's electric meter. Getting to the electric panel is **EXTREMELY DANGEROUS** and is **NOT RECOMMENDED**, except for trained and competent electricians. The preferred method is to use the utility's electric meter.

Two commonly encountered styles of electric meters are shown in Figure 1. Both meters are combination meters that measure energy usage in kWh and peak demand in kW. On both meters energy usage is indicated by the five small dials arranged in a semicir cular pattern near the top of the meter. Each dial represents thousands, hundreds, tens, or single kilowatt hours. The kWh reading is taken from left to right. Notice that the needles on alternate dials rotate in opposite directions. In reading each dial, the small digit on either side of the needle is read. Figure 1 gives the meter reading for the meter illustrated.

Demand is indicated for the top meter by the three circular dials near the center of the meter. They are read exactly the same way as the other dials on the meter, except that a decimal point is to be inserted where the heavy black line is drawn. For the lower meter, demand is indicated by the large needle and semicircular scale around the top periphery of the meter. Demand readings are set back to zero each time the meter is read.



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Figure 1. Two common types of electric utility demand meters

Shown on many meters, usually on the upper right hand side of the face or in the very center of the face, is a meter multiplier. All readings obtained from the meter should be multiplied by this number if one is shown. Meter multipliers are usually 20, 40, 60, 80 or 120.

One of the most useful items in an electric meter as far as the customer is concerned is the thin disk that rotates as energy is used. The disk rotates faster or slower depending upon the rate at which energy is being used. The disk can usually be seen through a thin slot in the meter face, located 1/3 to 1/2 the distance from the bottom of the meter. One segment of the edge of the disk is painted black so that the speed of rotation can be judged. To determine the present rate of power consumption, measure the time it takes for a given number of revolutions. It is not critical how many revolutions are timed, but the elapsed time should be more than about 20 seconds. Ten to twenty revolutions is usually enough for an accurate measurement.

The final item of information that must be obtained from the electric meter is the meter disk constant, Kh. The value of Kh is usually shown on the mid to lower right hand side of the meter face.

Once you have timed the meter disk, determined the meter multiplier and the meter disk constant, it is a matter of simple multiplication to get power input. Power input in kilowatts is computed as follows:

$$kW = 3.6 \times Kh \times \text{meter multiplier} \times \frac{\#\text{ of revolutions}}{\text{time for revolutions}}$$

To convert to horsepower, use:

$$hp = kW \times 1.34$$

(On some meters, a meter multiplier will be shown for use with the kilowatt-hours dials and the kilowatt dials, but it should not be used for power input computations.)

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Indications of Decreasing Efficiency

Although a complete check of efficiency is recommended, it may not always be possible. In those instances, there are some things to watch that can indicate a decrease in pump efficiency. Sudden or gradual changes in any of the items listed below could indicate a problem.

1. Flow rate
2. Discharge pressure
3. Electrical demand
4. Monthly energy usage
5. Hours of pump operation

If you have questions about how to monitor efficiency, or would be interested in receiving training, contact the Department of Water Resources.

DOCUMENT
D - 7
OCT 01 1991

APPENDIX E

APPLICATION TO CONDUCT MUNICIPAL PUMP TEST

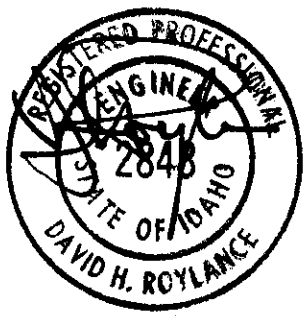
APRIL 7, 1993

FEASIBILITY REPORT

LEXINGTON HILLS IRRIGATION SYSTEM
EAGLE, IDAHO

DEVELOPER

LEXINGTON HILLS INC.
1815 STONYBROOK
EAGLE, ID 83616
(208) 939-6000



4/9/93

ENGINEER

ROYLANCE AND ASSOCIATES, PA
4619 EMERALD SUITE D-2 BOISE IDAHO 83706
AC 208 336-7390 FAX AC 208 336-7391

NOV 08 1995

Roylance & Associates P.A.

Engineers • Surveyors • Landplanners

4619 Emerald, Suite D-2, Boise, Idaho 83706

Telephone (208) 336-7390 Fax (208) 336-7391

March 31, 1993

Idaho Department of Water Resources
ATTN: GLEN SAXTON P.E. AND DAVE TUTHILL P.E.
1237 Airport Way
Boise, Idaho 83705

RE: WATER PERMIT NO. 63-11413/LEXINGTON HILLS/
PRESSURE IRRIGATION FEASIBILITY REPORT

Dear Mr. Saxton and Mr. Tuthill:

A condition of Water Permit No. 63-11413 requires the permit holder to prepare a feasibility report to determine the economic feasibility of providing surface irrigation water to lots smaller than 1/2 acre in size at Lexington Hills and Echo Creek. This condition was a result of discussions between the developers and the Idaho Department of Water Resources regarding the viability of providing surface water to small lots. The developers were encouraged to utilize the surface water rights for irrigation, which would minimize the impact to the aquifer. The surface water is available typically April 15 to September 15 every year in a good water year.

As minimum, surf. water should be used on lots ≥ 1/2 acre per condition #6 -SR

After the water permit was granted the irrigation system for Lexington Hills was designed. During design it became apparent for various reasons that the irrigation water storage ponds should be located at the south end of the project. The 1/2 acre and the 1 acre lots to be irrigated, however, were located at the north end of the project. The transport line connecting the pressure station at the south end of the project to the large lots to the north, had to pass through the 1/4 acre and the 1/3 acre lots. Furthermore, the transport line had to be looped to equalize pressure and minimize friction head losses in the distribution system. Given this situation, the additional cost to provide irrigation water to the smaller lots was the cost to upsize the transport lines and the cost to provide the individual water services to all of the lots. As a result the developers have decided to provide surface irrigation water to all of the lots in Lexington Hills.

The irrigation system consists of the following:

There are three storage ponds located on the south end of the project. These ponds are gravity filled with surface water from the Farmers Union Canal, which cuts across the southwest corner of the project. Obviously the ponds can be filled with surface water only when available, which typically is mid-April to mid-October in a good water year. The developers intend to supplement this surface water for approximately 30 days in the spring and 30 days in the fall (to the extent allowed under the water permit) by filling the ponds from the domestic water system. There are two pumps installed in the irrigation ponds to pressurize the irrigation water distribution system. The 10 horsepower pump meets system demands under low flow conditions. When demand increases, pressure drops and a pressure switch activates the 50 horsepower pump to meet high flow demands.

There are two separate and distinct water distribution systems on the project. One is the domestic water distribution system, which uses as its source, the water wells listed in the water permit. The other is the irrigation water distribution system. The Division of Environmental Quality will not allow any interconnection between the two distribution systems because of obvious health concerns. If Lexington Hills needs to supplement

NOV 0 8 1995

surface irrigation water in the spring and the fall, it is done by filling the irrigation ponds from the domestic water system and then delivering the water with the pressure pumps and distribution lines of the irrigation system.

Enclosed is some information developed by Mr. Lee Bean when we were designing the Lexington Hills irrigation system.

Mr. Joe Canning, P.E. is the project engineer for the Echo Creek Development. He is providing a separate feasibility report for that project. It is my understanding, in discussions with Mr. Canning, that Echo Creek intends to develop and construct its own separate pressurized irrigation system for the remainder of their project.

If you need any additional information, please contact me.

Sincerely,

David H. Roylance P.E., P.L.S.

DHR/nd

Enclosures

NOV 0 8 1995

QA/LETTER/LEX.LTR

NOVEMBER 17, 1991
PROJECT NUMBER 9003-997

PRESSURIZED IRRIGATION SYSTEM DEMANDS AND SCHEDULING

LEXINGTON HILLS
EAGLE, IDAHO

DEVELOPER

LEXINGTON HILLS INC.
1815 STONYBROOK
EAGLE, ID 83616
(208) 939-6000

ENGINEER

ROYLANCE AND ASSOCIATES, PA
4619 EMERALD SUITE D-2 BOISE IDAHO 83706
AC 208 336-7390 FAX AC 208 336-7391

NOV 0 8 1995

LANDSCAPE IRRIGATION DEMANDS AND SCHEDULING FOR LEXINGTON HILLS DEVELOPMENT AT EAGLE, IDAHO

PREPARED BY:

E. LEE BEAN
IRRIGATION BY DESIGN

WATER SUPPLY

The project area of 272 acres has existing water rights from the Farmers Union Canal in the amount of 209.4 minors inches. This flow is being used to irrigate farm crops. An existing 50 HP, short-coupled turbine pump located in the canal at the NW corner of the property lifts water into a holding pond, also located at the NW property corner. Existing farm crops are irrigated by flood and sprinkler methods. A second pump station is used to operate the sprinkler system. Except for drought years, irrigation water is available from April 15th to October 15th.

PROPOSED USE OF CANAL WATER FOR PROJECT

A pump station located at a holding pond near the south boundary of the property will provide the flow necessary to irrigate the following areas: "A" lots, "B" lots, "C" lots, "D" lots, school grounds and park (open space areas). Turf irrigation demands are calculated from evapotranspiration data and shown following.

RECEIVED
NOV 08 1995

HISTORICAL ET FOR LAWNS--BOISE VALLEY

(Source: Rainfall--Evapotranspiration Data published by The Toro Company--1966)

Month	Average Daily ET	ET @ 70% Irr. Eff.	Gal/Ac/Day
April	.075 inches	0.107 inches	2905
May	.124 "	0.177 "	4806
June	.169 "	0.241 "	6544
July	.224 "	0.320 "	8689
Aug	.190 "	0.271 "	7358
Sept	.118 "	0.169 "	4589
Oct	.060 "	.086 "	2335

The estimated acreage to irrigate for each area is as follows:

"A" lots @ 0.75 acres each x 34 = 25.5

"B" lots @ 0.5 " " x 112 = 56.0

"C" lots @ 0.2 " " x 157 = 31.4

"D" lots @ 0.1 " " x 101 = 10.1

School - 8.0 " = 8.0

Parks -30.0 " = 30.0

161

Assuming all areas will eventually have automatically controlled sprinkling systems, the pumping station and mainlines should be sized for only nighttime irrigation. Therefore, demands are calculated as follows:

A lots average 0.75 acres to irrigate 34 lots, divide into odd and even with irrigation limited to 12 MN to 8 AM every other day.

Flow allowed = 30 GPM

Peak demand = .75 x 8689 x 2 = 13,033.5 gal/irr

Time = 13,033.5 ÷ 30 = 434.45 min

NOV 08 1995 = 7¼ hrs/irrigation

Total flow = 17 x 30 = 510 GPM

Total demand = 510 x 7.25 x 60 = 130,050 gal/day

B lots average .5 acres to irrigate 112 lots, divide into odd and even with irrigation limited to 12 MN to 8 AM every other day.

Flow allowed = 20 GPM

Peak demand = .5 x 8689 x 2 = 8689 gal/irr

Time = 8689 ÷ 20 = 434.45 min

= 7¼ hrs/irrigation

Total flow = 56 x 20 = 1120 GPM

Total demand = 1120 x 7.25 x 60 = 487,200 gal/day

C lots average .2 acres to irrigate 157 units, divide into four groups with irrigation 12 MN to 4 AM odd nights, 4 AM to 8 AM odd nights, 12 MN to 4 AM even nights and 4 AM to 8 AM even nights.

Flow allowed = 15 GPM

Peak demand = 0.2 x 8689 x 2 = 3,475.6 gal/irr

Time = 3,475.6 ÷ 15 = 231.7 min

= about 4 hrs.

Total flow = 40 x 15 = 600 GPM

Total demand = 600 x 4 x 60 = 144,000 gal/day

D lots average 0.1 acre to irrigate 101 units, divide into four groups, with irrigation 12 MN to 4 AM odd nights, 4 AM to 8 AM odd nights, 12 MN to 4 AM even nights and 4 AM to 8 AM even nights.

Flow allowed = 10 GPM

Peak demand = 0.1 x 8689 x 2 = 1,737.8 gal/irr

Time = 1,737.8 ÷ 10 = 173.78 min

= about 3 hrs/irrigation

Total flow = 25 x 10 = 250 GPM

Total demand = 250 x 4 x 60 = 60,000 gal/day

NOV 08 1995

School - 10 acres -- estimate 8 ac. to irrigate. Irrigate ½ daily from 10 PM to 8 AM.

Peak demand = 4 ac x 8689 = 34,756 gal/day

10 hr x 60 = 600 min/day

Flow req'd = 34,756 ÷ 600 = 60 GPM

Total flow = 60 GPM

Total demand = 60 x 600 36,000 gal/day

Parks/open space - estimate 30 acres to irrigate. Irrigate ½ daily from 10 PM to 8 AM.

Peak demand = 15 x 8689 = 130,335 gal/day

10 hr x 60 = 600 min/day

Flow req'd = 130,335 ÷ 600 = 220 GPM

Total flow = 220 GPM

Total demand = 220 x 600 = 132,000 gal/day

Flows required

A lots	510 GPM	12 MN	to	8 AM
B lots	1120 "	"		"
C lots	600 "	"		"
D lots	250 "	"		"
	2480 GPM			
School	60 GPM	10 PM	to	8 AM
Park/open space	220 "	"		"
	280 GPM			

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Flows and HP Requirements

Total flow -- lots 2480 GPM

school 60 "

parks 220 "

2760 GPM

(Does not allow for cluster homes or expansion.)

Total HP = $\frac{2760 \times 75 \times 2.31}{3960 \times .75}$ = 161 @ 75% eff.

Flow 10-12 = 280 GPM x 2 x 60 = 33,600

12-8 = 2760 x 8 x 60 = 1,324,800

1,358,400 G/D

Storage -- 1,358,400 G/D = 181,604 cu ft/D demand

Pond:

@ 10 ft. depth & 1.5 ac area = 653,400 cu ft = 3½ day supply w/o losses

@ 5 ft. depth & 1.5 ac area = 326,700 cu ft = 1.8 day supply

w/o losses

Water right = 206 minors inches flow = 206 x 9 = 1854 gallons/min

= 1854 x 24 x 60 = 2,669,760 G/D

Need 50% of water right to irrigate the above proposed areas.

Pump -- 2800 GPM @ 75 PSI station

HP = $\frac{2800 \times 180}{3960 \times .75}$ = 169.7

3 60 HP pumps -- one VFD

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Pipe System

The pump station, mainline, loops to cul-de-sacs and service connections have been designed to supply the flows based on set irrigation schedules. Outlets to lots are located at points shown on plan.

Outlets for "A" lots to be 1½"

"B" " " " 1¼"

"C" " " " 1"

"D" " " " 3/4"

and 2" or more for school and parks.

One outlet to be used for adjoining lots since irrigation will be on alternate days. Install one 3/4" hose bibb about 6" above ground for each lot on designated size riser. One drain valve and two gate valves to be installed for each outlet. (Some type of warning should be placed on hose bibb outlet--"nonpotable water" etc.)

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Estimate (prepared 9/19/91)

150'	15"	PVC	Pipe	Gasket	Cl 160	9.89	1,483.50
3,450'	12"	"	"	"	"	6.88	23,736.00
3,540'	10"	"	"	"	"	4.89	17,310.60
3,975'	8"	"	"	"	"	3.50	13,912.50
4,680'	6"	"	"	"	"	1.86	8,704.80
530'	4"	"	"	"	"	.99	524.70
19,725'	3"	"	"	SW	CI 16	.57	11,243.25
15,600'	2"	"	"	"	"	.2646	4,127.76
							$81,043.11

228 service outlets

outlets to be 1½" for A lots -
1¼" " B " -
1 " " C " - @ $50 ea = 11,400.00
3/4" " D " -

and 2 " or more for parks/open areas

Pump station 70,000.00

$162,443.11

Fittings, valves, drains (etc.) 17,556.89

ESTIMATED MATERIALS TOTAL $180,000.00

MICROFILMED

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Irrigation Water Costs (Boise water rates)

at Lexington Hills for:

A lots, B lots, C lots, D lots, school and open areas.

34 "A" lots @ $792.09	=	$ 26,931.06
112 "B" lots @ 528.06	=	59,142.72
157 "C" lots @ 249.95	=	39,242,15
101 "D" lots @ 154.22	=	15,576.22
School	=	9,733.87
Open area	=	23,718.40
Total Season		$179,344.42

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STATEMENT TO HOMEOWNERS

Nonpotable irrigation water is available for your landscaping from April 15 to October 15.

Your sprinkler irrigation system should be designed to use a maximum flow of: A 30 GPM

B 20 GPM

C 15 GPM

D 10 GPM

Irrigation water is available for your lot between:

☐ 1/E 12 MN and 8 AM on even nights for A size lots

☐ 1/O 12 MN and 8 AM on odd nights for A size lots

☐ 1/E 12 MN and 8 AM on even nights for B size lots

☐ 1/O 12 MN and 8 AM on odd nights for B size lots

☐ 1/E 12 MN and 4 AM on even nights for C size lots

☐ 2/E 4 AM and 8 AM on even nights for C size lots

☐ 1/O 12 MN and 4 AM on odd nights for C size lots

☐ 2/O 4 AM and 8 AM on odd nights for C size lots

☐ 1/E 12 MN and 4 AM on even nights for D size lots

☐ 1/O 4 AM and 8 AM on even nights for D size lots

☐ 2/E 12 MN and 4 AM on odd nights for D size lots

☐ 2/O 4 AM and 8 AM on odd nights for D size lots

If you do not have an automatically-timed sprinkling system you may irrigate from 8 AM to 10 PM on the above scheduled days.

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GENERAL INFORMATION

Lawn areas in Boise Valley require irrigation volumes based on rate-of-growth. Rate-of-growth is influenced by daylight hours, mean temperature, fertility of soil, plant types, etc.

Your sprinkling irrigation system must be designed to apply adequate water to sustain plant growth during peak demand (July) within your assigned irrigation schedule.

Irrigation is basically a means of replacing root-zone moisture used by the plant each time you irrigate. For example, if you irrigate every-other day, you must apply enough water to last two days, which is about 30% of what is needed for a one-week supply. Irrigation then is simply a method of replacing root-zone moisture because there has been no rainfall.

Irrigation requirements change during the season. The following information can be used as a guide.

Average daily demand for July in the Boise Valley is about 1/4 inch each day -- 1/2 inch every-other day schedule -- 3/4 inch for a three day schedule, etc. Each month will require irrigation in approximately these amounts:
April 33%, May 55%, June 75%, July 100%, August 85%, September 53% and October 27%.

Scheduling (or setting run times) for your system must not only be based on daily requirements, but on rate-of-application of the sprinklers on each zone. Also, there are variations due to shade and sun areas.

For example in July you need about a 1/2 inch of water every other day. If a sprinkler zone applies water at a rate of 1/2 inch per hour, you need to let the zone run one hour. Sprinklers being used can vary from about 0.2 inches per hour to 1.5 inches per hour application rate. If you need 1/2 inch and have a rate of 1.5 inches, run time would be 20 minutes.

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The designer of your sprinkling system should provide you with the necessary information to allow you to properly schedule your irrigation run times on each zone for peak demand.

There are a few basic rules to follow when designing an irrigation system. Unfortunately many designers have not had adequate training and are therefore not able to provide you with an acceptable plan or have the knowledge to calculate precipitation rates, etc.

Some basic rules are:

(1) Select and space sprinklers according to spray patterns to achieve even application over zone area.
(2) Do not mix different type sprinklers on one zone.
(3) Separate zones in sun areas from zones in shaded areas.
(4) Separate zones for lawn area from shrub areas.
(5) Use large enough pipe to provide flow needed without too much pressure loss.
(6) Many types of sprinklers, valves, pipe and controllers are available, as well as variations in quality and cost. Only experience can be used to determine the right equipment for each application.

To help you understand the application rates of various sprinklers consider these two examples.

Sprinklers for larger areas spaced at 40 ft. apart using a 5 GPM nozzle has an application rate of 0.30 inches per hour. Average run time in July on an every-other day schedule will be 100 minutes or one hour and 40 minutes.

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Sprinklers for small areas, spaced at 15 ft. apart, using a 4 GPM nozzle, have an application rate of: 1.7 inches per hour. Average run time in July on an every-other day schedule will be about 18 minutes.

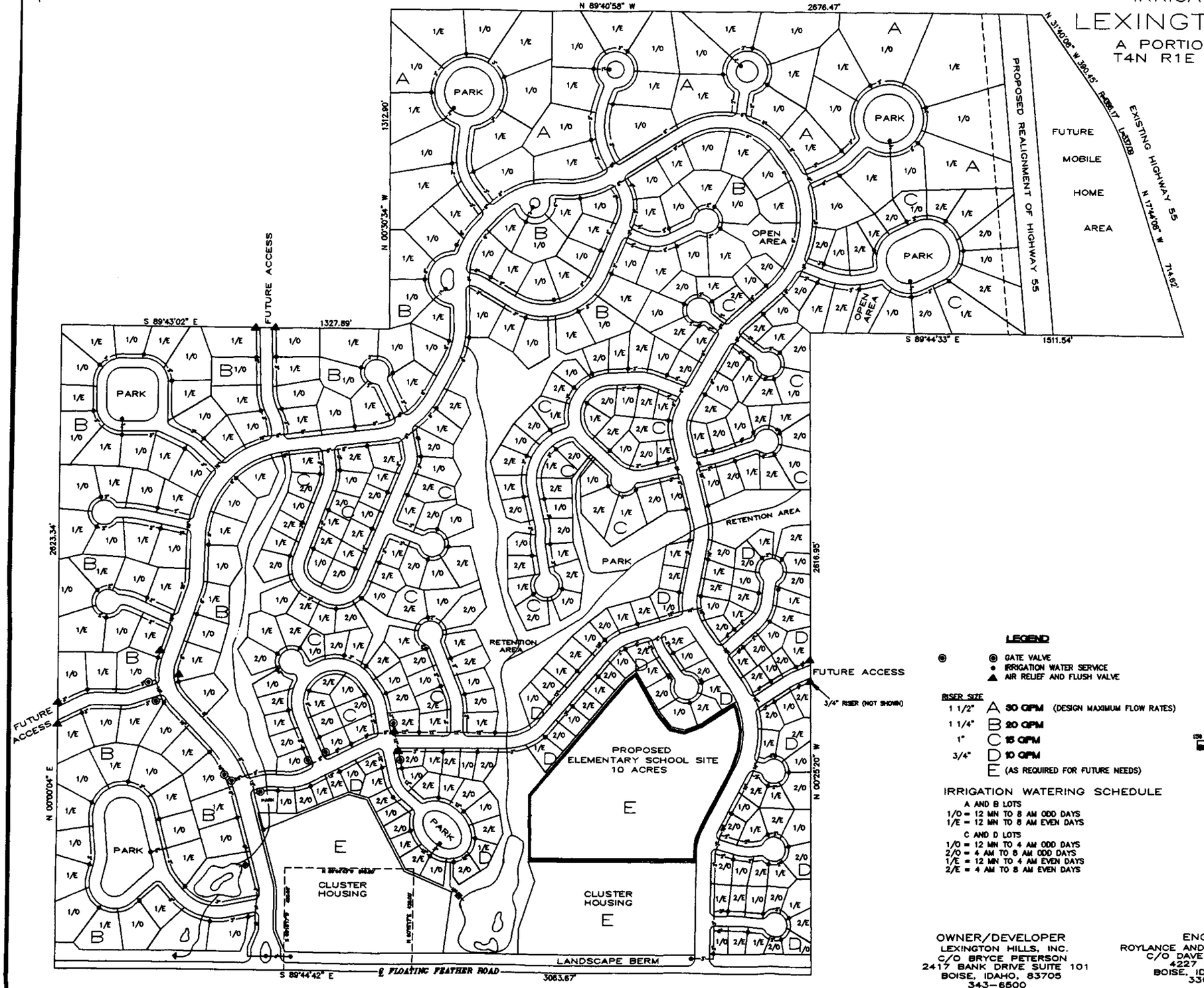
You may wish to use drip irrigation for trees, landscape areas and gardens. Special strainers and pressure reducers should be used on these zones.

Remember you are using ditch water and it is unlawful to cross-connect your irrigation pipe to your potable (house water) pipe.

To properly irrigate your landscaped areas within your assigned schedule, your irrigation system must be designed to achieve at least 70% efficiency. Proper design and proper timing of each zone is equally important. The use of moisture sensors to stop irrigation when not needed can eliminate the need to change running times and result in truly automatic irrigation.

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IRRIGATION PLAN
LEXINGTON HILLS
A PORTION OF SECTION 3 T4N R1E BM ADA COUNTY IDAHO



LEGEND

- GATE VALVE
- IRRIGATION WATER SERVICE
- AIR RELIEF AND FLUSH VALVE

RISER SIZE		
1 1/2"	A	30 GPM (DESIGN MAXIMUM FLOW RATES)
1 1/4"	B	20 GPM
1"	C	15 GPM
3/4"	D	10 GPM
	E	(AS REQUIRED FOR FUTURE NEEDS)

SCALE IN FEET: 150 75 0 150 300 450

IRRIGATION WATERING SCHEDULE

A AND B LOTS
1/0 = 12 MN TO 8 AM ODD DAYS
1/E = 12 MN TO 8 AM EVEN DAYS

C AND D LOTS
1/0 = 12 MN TO 4 AM ODD DAYS
2/0 = 4 AM TO 8 AM ODD DAYS
1/E = 12 MN TO 4 AM EVEN DAYS
2/E = 4 AM TO 8 AM EVEN DAYS

OWNER/DEVELOPER
LEXINGTON HILLS, INC.
C/O BRYCE PETERSON
2417 BANK DRIVE SUITE 101
BOISE, IDAHO, 83705
343-6500

ENGINEER
ROYLANCE AND ASSOCIATES PA
C/O DAVE ROYLANCE
4227 EMERALD
BOISE, IDAHO 83706
336-7390

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LEXINGTON HILLS
IRRIGATION PLAN

ROYLANCE AND ASSOCIATES PA
Engineers Surveyors Landplanners
4619 Emerald Suite D-2 Boise Idaho 83706 (208) 336-7390

JOB NUMBER 9110-1156

Idaho Department of Water Resources

Open-File Report



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GROUND-WATER CONDITIONS IN THE DRY CREEK AREA, EAGLE, IDAHO

by
Steven J. Baker

Idaho Department of Water Resources
Boise, Idaho



June, 1991

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INTRODUCTION

Purpose and Objectives

Due to continued growth in the Boise Valley, increased use of the ground-water resources has brought about concerns of over-development in certain areas. Land that was once used for growing crops or raising livestock is gradually being converted to multi-family subdivisions. People who initially sought the enjoyment of the simpler country life are finding that increased urbanization is gradually encroaching on them and with it some perceived problems.

An area northwest of Boise, near the small community of Eagle (see Figure 1) is one of the areas that is feeling the effects of expanding development. Some of the problems that have been expressed by well owners in this area include: declining well yields, especially near the end of the irrigation season; sand production during extended periods of pumping, which in some cases has required cleaning and/or deepening of certain wells; and water-quality problems that include hardness and high iron content.

Beginning in spring of 1989, a study was conducted by the Idaho Department of Water Resources (IWDR) in order to address these concerns over the ground-water resources in the area. This report is the outcome of that study. The report has been organized in the following format. The local geology is presented first in order to provide a description of the media through which the ground water moves. The next section discusses the principal factors that control the movement of the ground water in the area. A brief discussion of the ground-water quality in the area follows. Sections on conclusions and recommendations complete the report.

Description of Study Area

The study area occupies about nine square miles immediately northeast of Eagle (see Figure 2). The area is drained by Dry Creek which roughly bisects the study area from northeast to southwest and is a tributary of the Boise River. Foothills of the Boise mountains occur along the northern and eastern margins of the study area. The main portion of the study area, however, consists of a gentle southwest sloping terrace. Elevations range from 2950 feet (ft) above mean sea level (MSL) at the crest of the foothills that occur in the study area to around 2560 ft above MSL near Eagle.

The Farmers Union Canal traverses the study area from southeast to west-central. It is used to deliver surface water from the Boise River system to the area for irrigation needs.

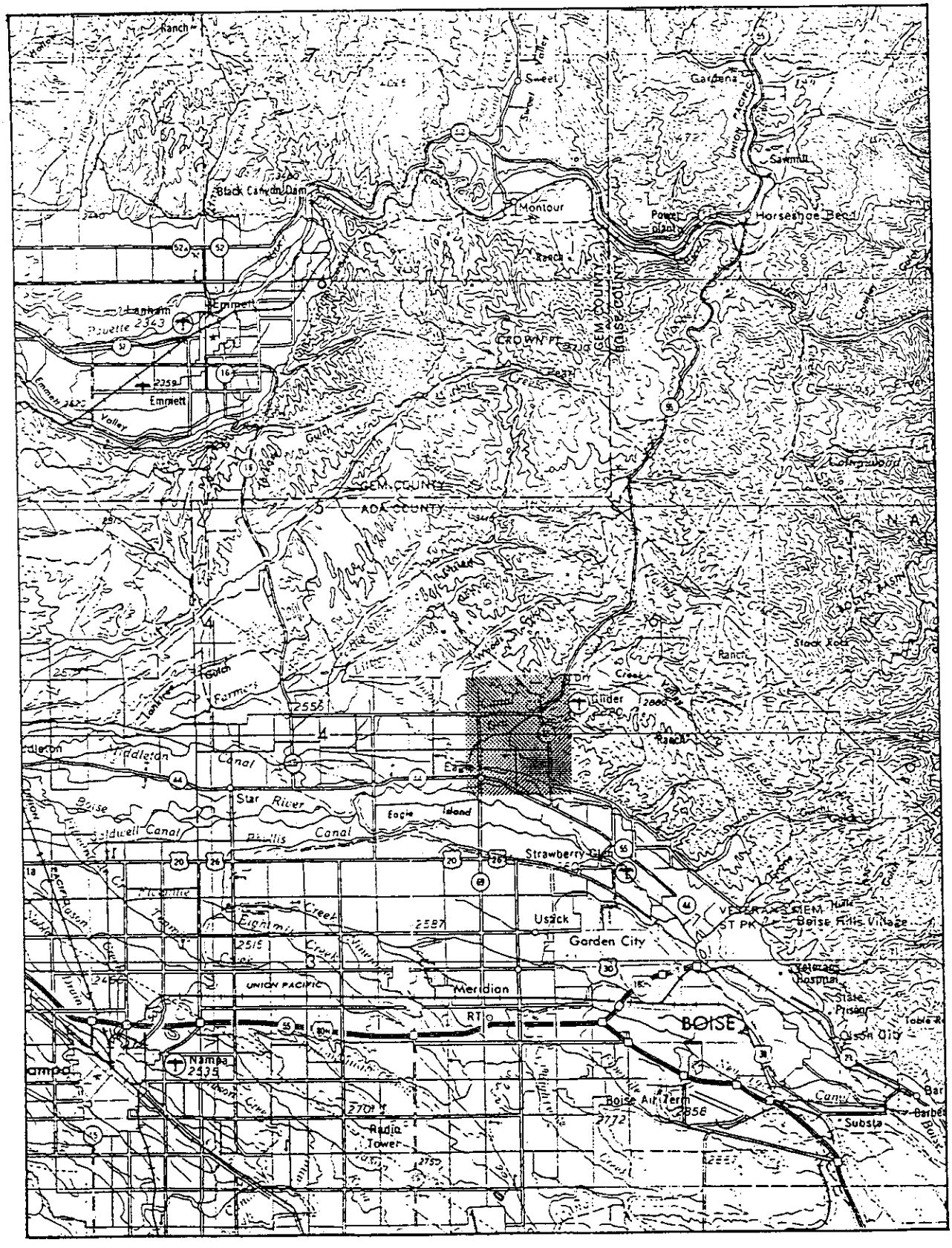
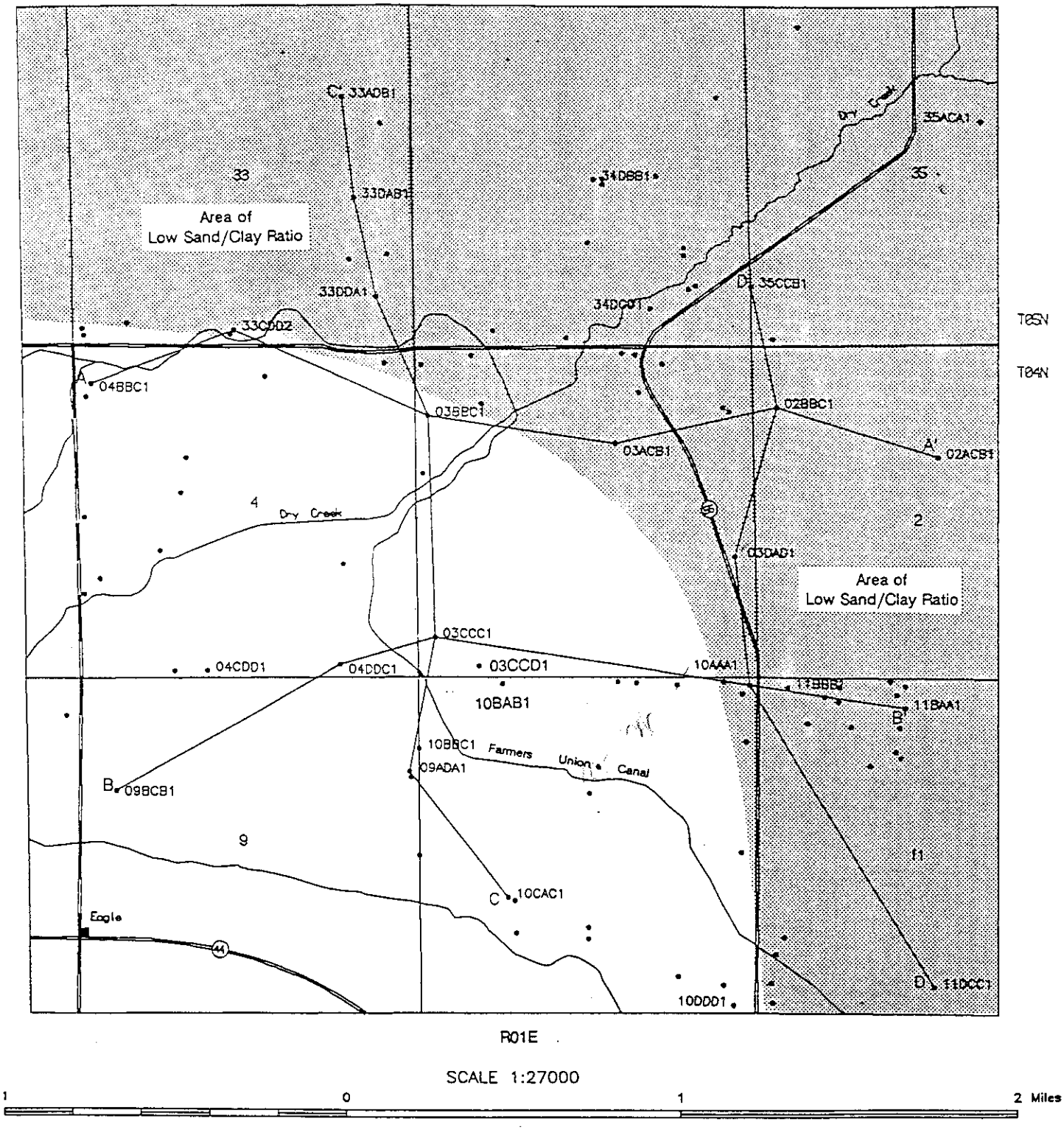


Figure 1. Location of study area

DRY CREEK AREA



SCALE 1:27000

1 0 1 2 Miles

Figure 2. MAP SHOWING LOCATIONS OF INVENTORIED WELLS AND GEOLOGIC CROSS SECTIONS

Previous Work

Previous studies that have been conducted in the area were regional in nature and only briefly touched upon the area of interest. A report by Savage (1958) describes the geology of Ada and Canyon counties. Mitchell and Bennett (1979) compiled a small-scale regional geologic map that covers the area. Recent mapping in the Boise foothills have been performed by S.H. Wood (a professor at Boise State University), W.L. Burnham (retired from U.S. Geological Survey), and K.L. Othberg (a geologist with the Idaho Geological Survey), and are currently unpublished. A report by Dion (1972) discusses the effects of land-use changes on the shallow ground-water system in the Boise Valley.

Well-Numbering System

The well-numbering system used in this report is identical to the system that is used by the U. S. Geological Survey (USGS) in Idaho (see Figure 3). The system indicates the location of wells within the official rectangular subdivision of the public lands, with reference to the Boise base line and meridian. The first two segments of the number designate the township and range. The third segment gives the section number, followed by three letters and a numeral, which indicate the ¼ section (160-acre tract), ¼-¼ section (40-acre tract), ¼-¼-¼ section (10-acre tract), and serial number of the well within the tract. Quarter sections are lettered A, B, C, and D in counterclockwise order from the northeast of each section. Within quarter sections, 40-acre and 10-acre tracts are lettered in the same manner. For instance, well 01N-04E-04CDA1 corresponds to the legal location NE¼, SE¼, SW¼, Section 4, Township 1 North, Range 4 East, and was the first well inventoried in that tract.

Acknowledgements

The author would like to thank each of the well owners in Dry Creek area that took the time to visit with IDWR personnel and allow them to inventory their wells. Bill Pardew, a local resident and a retired civil engineer with the Idaho Transportation Department, was an invaluable resource throughout the course of this study and his assistance is very much appreciated. Spencer Wood, a geology professor at Boise State University, spent numerous hours in the field acquiring data, in addition to providing technical assistance during this study. His help is greatly appreciated. The author would also like to thank Chuck Feast of CH2M Hill consulting firm for the meticulous work that he provided during the long-term aquifer test that was conducted in the study area.

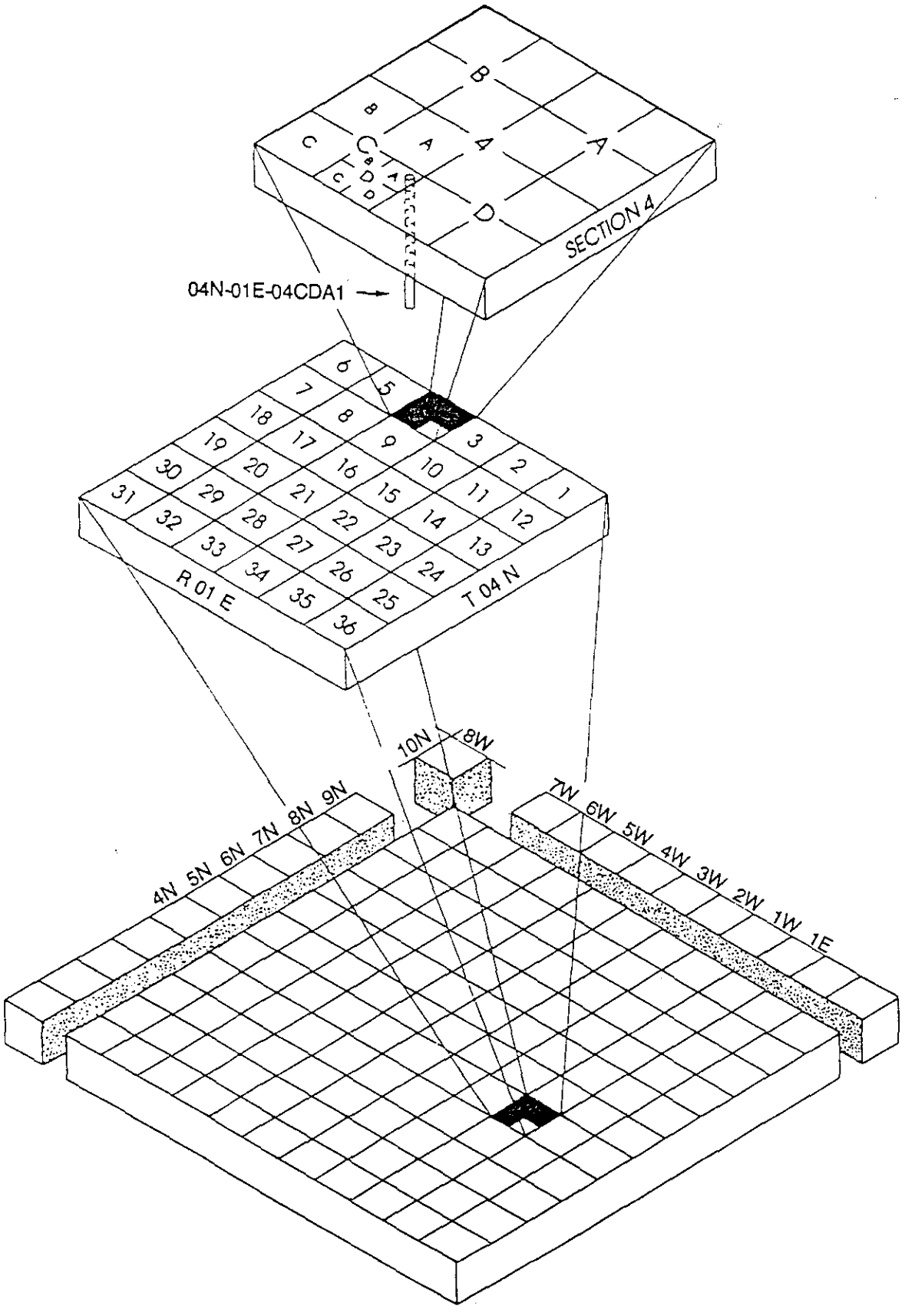


Figure 3. Well-numbering system

GEOLOGIC FRAMEWORK

The rocks that underlie the study area range in age from Pliocene to Holocene. During these past five million years of geologic history, numerous events have taken place and are recorded in rocks that were deposited in the region. Four geologic cross sections were constructed from Well Driller's Reports and are shown on Figures 4 - 7. The locations of each of the sections are shown on Figure 2. These sections were included to assist in describing the subsurface geology of the Dry Creek area.

Certain geologic events that occurred prior to the emplacement of the known rocks in the area greatly influenced the types of rocks that were deposited later. These earlier events include a long period of intrusion, uplift, and volcanism, and are responsible for the creation of the western Snake River Plain graben (down-thrown fault block) during this time. Within this large depression in the plain, a lake was created. Streams carrying sediments from the adjacent uplands were deposited in the lake. The Dry Creek area occurs within this transition zone between fluvial (stream-deposited) sediments and lacustrine (lake-deposited) sediments.

Coarser materials were deposited along the stream channels and shores of the lake. Finer silts and clays were carried out into the lake where they settled to it's floor. The lake level changed throughout time and as a result so did the areal extent of the lake. At low levels, streams would deposit coarser sediments further into the interior of the plain, whereas, during high levels, the lake would inundate previous shorelines and deposit fine sediments.

The sediments that accumulated during this period are collectively known as the Glenns Ferry Formation. This formation underlies the Dry Creek area, however, its composition appears to vary considerably throughout the area according to Well Driller's Reports. The sediments that occur in the foothills and adjacent lowlands comprise massive silty clay with fine sand stringers. The shaded area shown on Figure 2 approximately delineates this area of low sand/clay ratio. The Glenns Ferry Formation that underlies the shallow subsurface in the remaining portion of the study area contains greater quantities of sand and lesser amounts of clay. The occurrence of a northwest-trending normal fault is thought to explain these lateral changes in sediment composition (Wood, 1991). Detailed geologic mapping immediately to the east along with data from an east-west seismic profile a few miles to south of the study area support this theory.

By the beginning of the Pleistocene (about two million years ago), downcutting by the ancestral Snake River in Hells Canyon caused the natural dam of the lake to become breached and allowed it to drain. Fluvial processes predominated during this time and the ancestral Boise River system was created. Coarse sands and gravels were

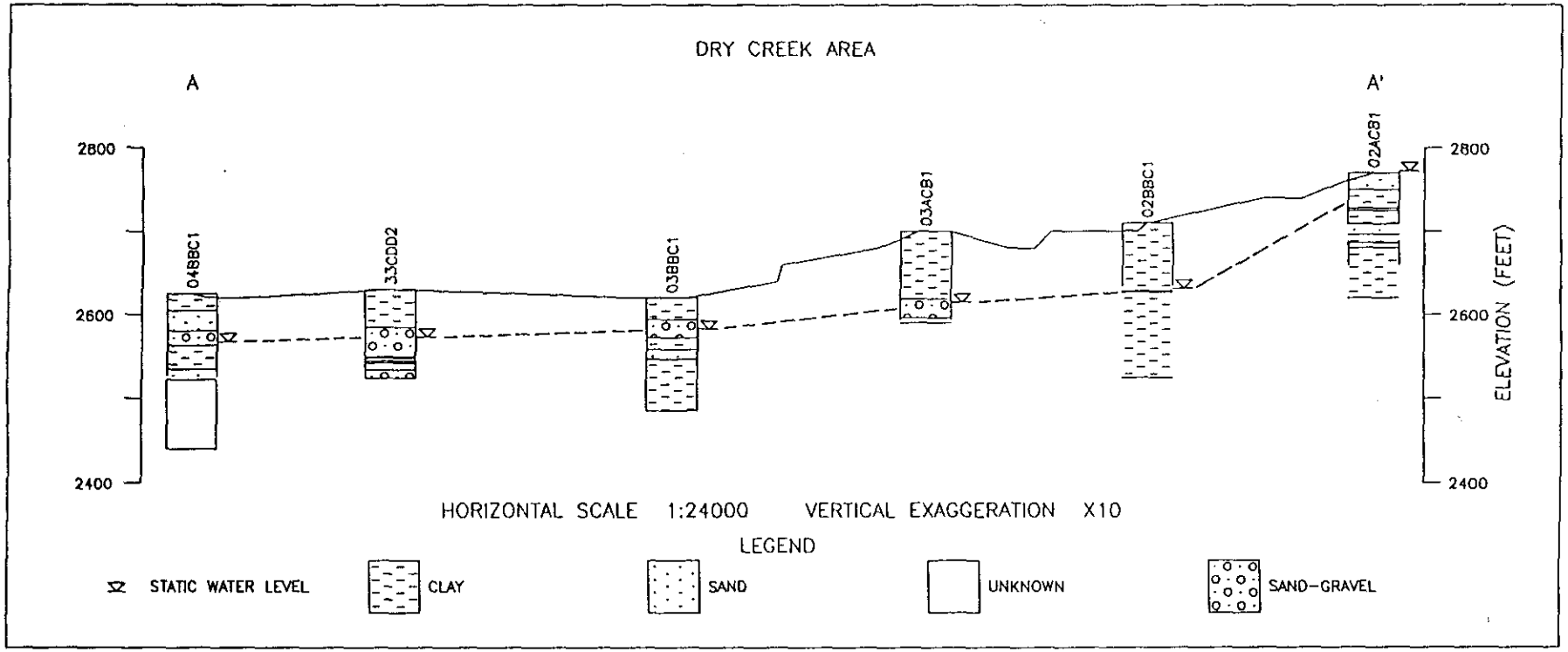


Figure 4. GEOLOGIC CROSS SECTION A – A'

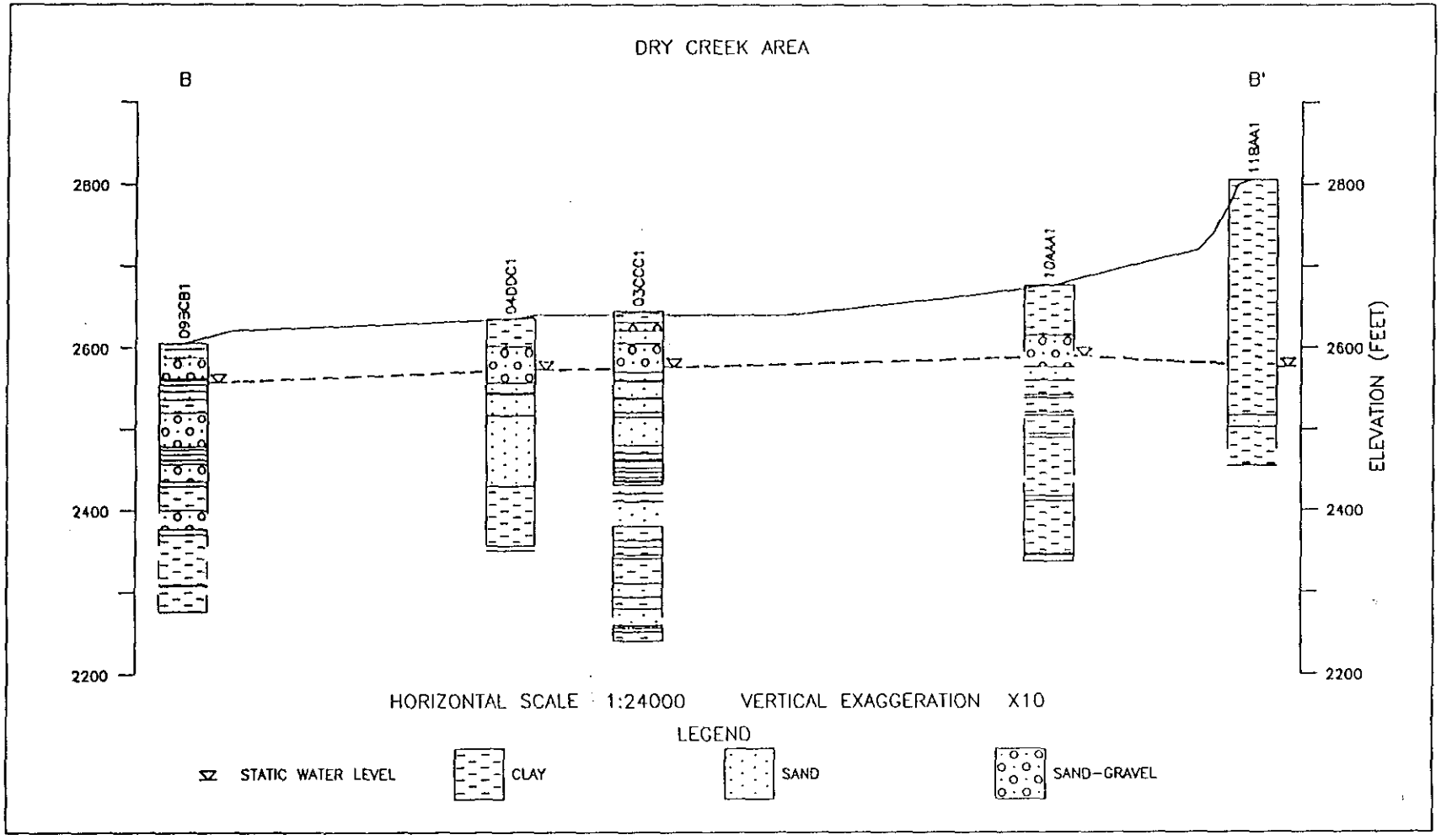


Figure 5. GEOLOGIC CROSS SECTION B – B'

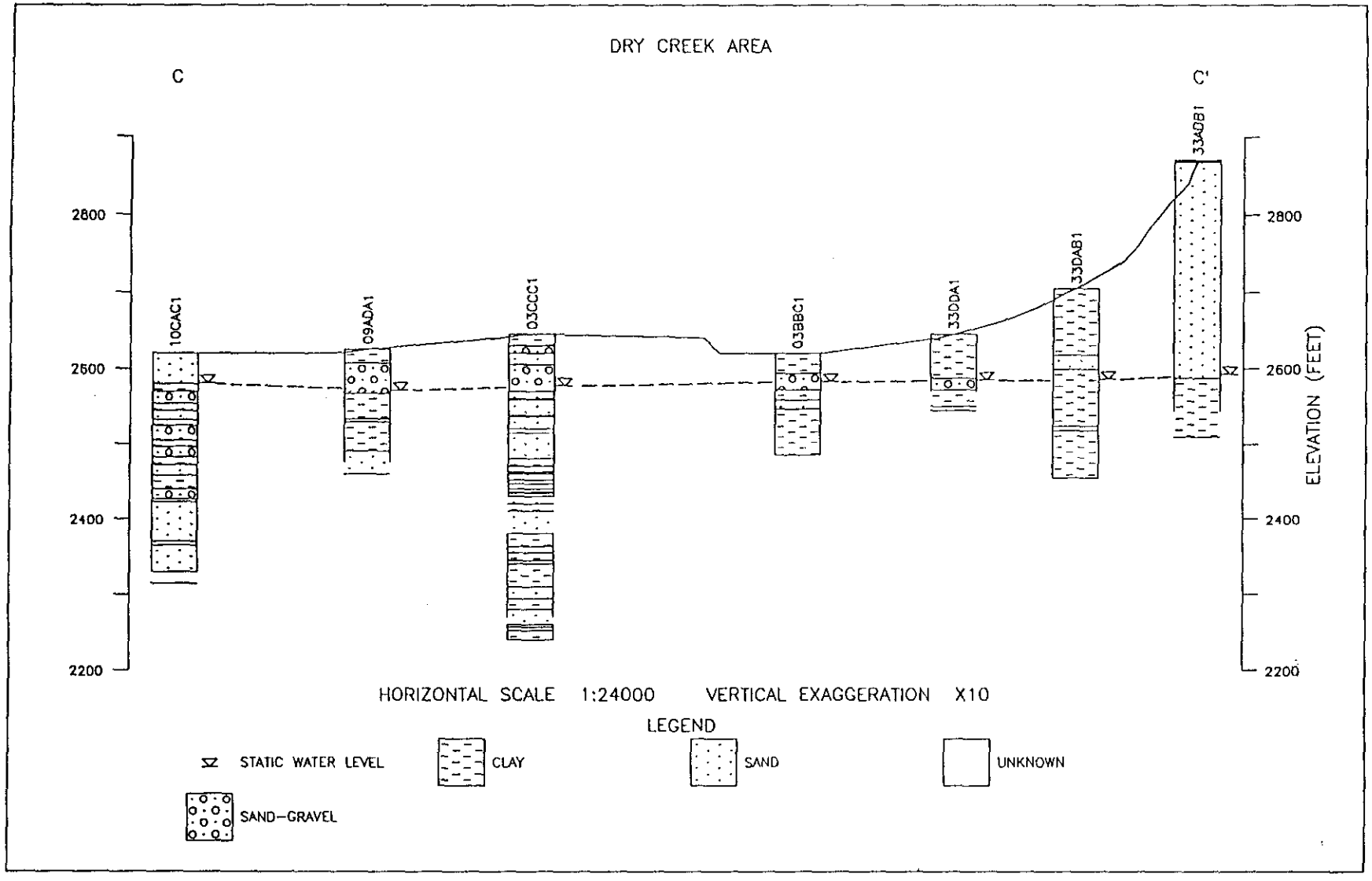


Figure 6. GEOLOGIC CROSS SECTION C – C'

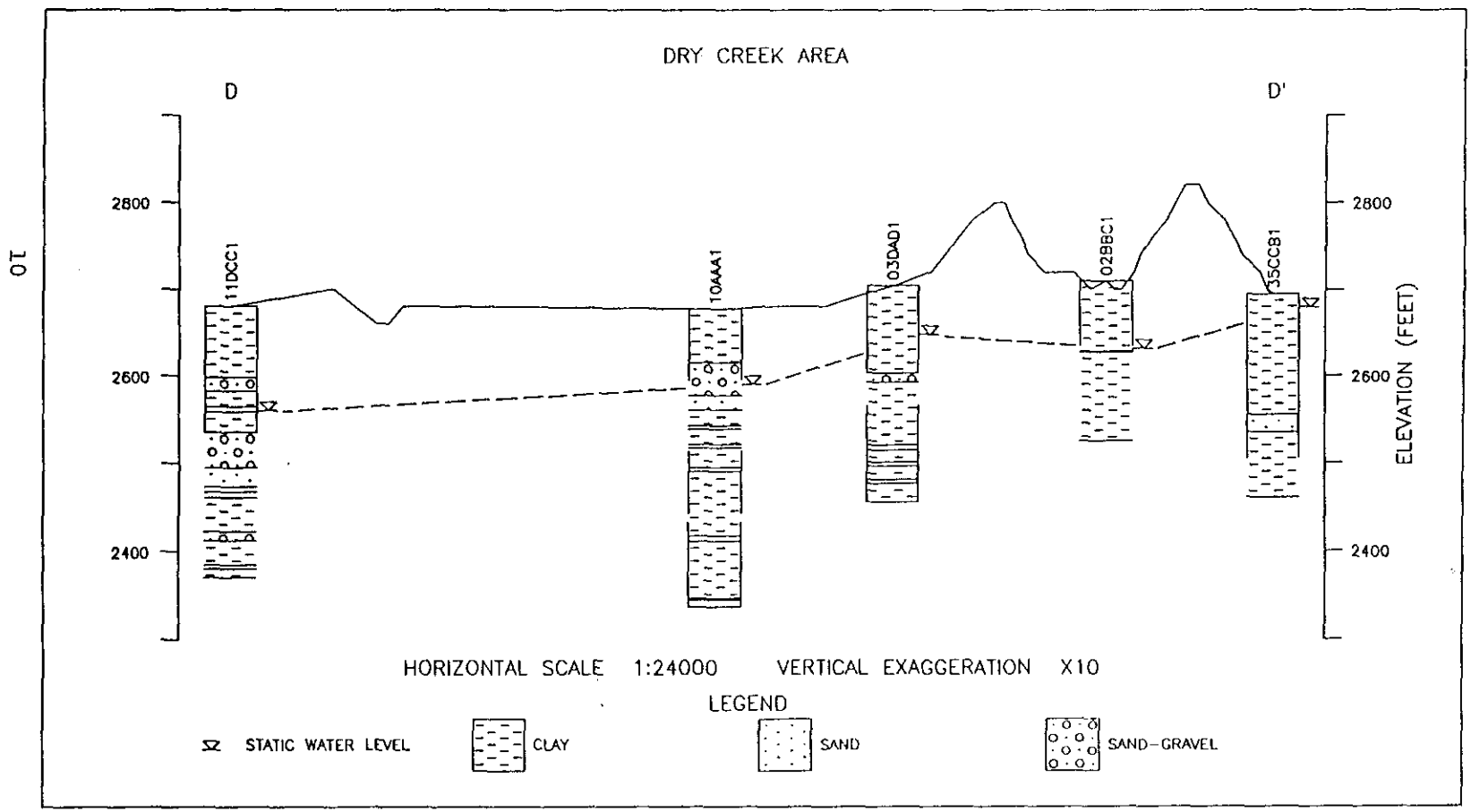


Figure 7. GEOLOGIC CROSS SECTION D – D'

deposited within its channel and fine silts and clays accumulated along its banks during floods. The course of the river continuously changed through time. Sediments that were deposited would later be entrenched during successive downcutting phases. Sand and gravel deposits that occur in the shallow subsurface in the study area record a time when the Boise River occupied the area during the history of its development.

HYDROLOGIC REGIME

Occurrence and Movement of Ground Water

Ground water occurs throughout the entire study area. It fills the void spaces or pores between the sediment grains that underlie the area. The size of the pores determines the amount of water that can be stored in a given volume of sediment, and is termed porosity. The degree of interconnection between individual pores determines the ability for the water to move from pore to pore. This property is termed permeability. Fine-grained sediments such as silts and clays have relatively high porosities, but low permeabilities; whereas, coarser-grained sediments such as sands and gravel have lower porosities, but higher permeabilities.

Inflow or recharge to the ground-water system occurs from natural or artificial (man caused) sources. The natural sources of recharge include deep percolation of precipitation and from infiltration of surface water along tributaries of the Boise River (such as Dry and Spring Creeks). Artificial recharge occurs through infiltration of unconsumed irrigation water from the Boise River system. The Farmers Union Canal is the main canal that delivers surface water to the Dry Creek area. Since water is continuously applied to crops throughout the irrigation season, recharge from this source provides a significant portion of inflow to the ground-water system in these areas.

Outflow or discharge from the ground-water system also occurs by both natural and artificial means. Natural discharge may occur where the land surface and water table intersect, causing springs or seeps to issue. Several of these occur in the higher elevations surrounding the study area and discharge intermittently throughout the year. Natural discharge also occurs as underflow leaving the study area to the southwest. Some of the underflow leaving the area discharges into the Boise River, immediately to the south of the study area and contributes to its base flow. Artificial discharge occurs through pumpage from wells. This type of discharge undoubtedly accounts for a major portion of the water leaving the ground-water system.

In spring of 1989, IDWR inventoried 101 wells in the Dry Creek area and measured depth to water in most of them. Some of the wells were re-measured in summer and fall of that year. Figure 2 shows

the locations of the wells that were inventoried. Pertinent information about the wells that are referred to in this report are included in Table 1. From the water-level data, the elevation of the potentiometric surface was constructed for the area and is shown on Figure 8. The potentiometric surface is an imaginary surface coinciding with the hydraulic head in the aquifer system. The water level in a well defines the elevation of the potentiometric surface at that point.

The potentiometric surface map of the area indicates the direction and slope of the ground-water system, since ground water moves from areas of higher elevation to areas of lower elevation. As can be seen, the predominant direction of movement is from northeast to southwest. The slope of the potentiometric surface ranges from about 100 feet per mile (ft/mi) in the northeast portion of the study area to about 40 ft/mi in the remaining portion of the study area. Several factors are responsible for this significant change in slope, but the main ones probably include: 1) lateral variations in sediment composition and associated permeabilities; 2) recharge from irrigation water in the southwestern portion of the study area causing artificial rising of the potentiometric surface; 3) locally concentrated pumpage causing the potentiometric surface to be artificially subdued in areas (example: the northwest quarter of Section 11, Township 1 North, Range 4 East).

Water-Level Fluctuations

Fluctuations in the potentiometric surface in an area are indicative of changes in the amount of ground water held in storage. These changes occur within an annual cycle and over time.

Annual variations in storage are due to the timing and magnitude of seasonal recharge and discharge events. In areas where natural recharge is the dominant annual event, the potentiometric surface begins to rise during spring snowmelt and peaks in early summer, and then declines until the following year's snowmelt. The foothills along the northern and eastern margins of the study area follow this annual trend. In areas where artificial recharge from unconsumed surface water occurs, the natural trend is greatly modified. As irrigation water is applied in late spring, the potentiometric surface continues to rise throughout the irrigation season and peaks in late fall, and then follows the normal decline. Ground-water withdrawal generally increases during the irrigation season and can greatly subdue the recharge events depending upon the magnitude of pumpage in an area.

Long-term changes in storage are due to cumulative differences in the amounts of annual recharge and discharge. During extended periods of drought, the amount of ground water in storage declines, whereas, during periods of above-normal precipitation, storage

Table 1. Records of selected wells

Elevation: Estimated from USGS topographic maps and field surveys (datum is National Geodetic Vertical Datum of 1929).

Depth to water: Measured by IDWR during spring 1989. Negative values indicate above land surface.

Use of water: H - Domestic; I - Irrigation; P - Public supply; S - Stock; U - Unused.

Well number	Elevation of land surface (ft)	Well depth (ft)	Depth to first well opening (ft)	Depth to water (ft)	Use of water	Date of well completion
04N-01E-02ACB1	2770	150	61	-2.0	I	07/01/73
02BBC1	2710	185	75	78.7	H	06/09/75
03ACB1	2700	110	106	85.1	H	02/20/74
03BBC1	2620	135	--	36.9	H	03/22/74
03CCC1	2645	405	215	71.8[1]	P	03/07/91
03CCD1	2645	171	168	67.7	H	09/01/71
03DAD1	2705	250	100	57.2	U	06/01/72
04BBC1	2610	185	98	57.5	H	04/11/66
04CDD1	2620	~300	--	59.1	U/I	--
04DDC1	2635	285	276	61.6	H	11/20/72
09ADA1	2625	165	149	54.2	I	07/12/88
09BCB1	2605	328	208	46.7	P	06/21/80
10AAA1	2677	340	82	87.3	I	10/26/50
10BAB1	2635	~75	--	62.5[1]	H	--
10BBC1	2625	98	--	53.8	H	09/09/62
10CAC1	2620	305	290	50.1	P	06/01/73
10DDD1	2600	141	128	16.4	H	04/05/69
11BAA1	2805	350	329	227.8	H	02/06/67
11BBB1	2690	203	120	103.3	H	12/11/62
11DCC1	2680	310	145	120.1	H/I	05/10/71
05N-01E-33ADB1	2870	360	326	277.5	H	05/12/82
33CDD2	2630	106	--	57.3	H	06/09/71

Table 1. Records of selected wells -- continued

Well number	Elevation of land surface (ft)	Well depth (ft)	Depth to first well opening (ft)	Depth to water (ft)	Use of water	Date of well completion
05N-01E-33DAB1	2705	250	248	119.1	H/I	02/12/79
33DDA1	2645	100	75	60.3	H/S	02/21/76
34DBB1	2680	175	--	31.2	I	12/15/66
34DCD1	2655	54	8	9.6[2]	H	11/14/56
35ACA1	2720	--	--	--	I	--
35CCB1	2695	235	190	15.2	H	04/23/76

[1] Measured by C.F. Feast on 3/26/91 prior to aquifer test
[2] Measured by USGS on 3/11/70

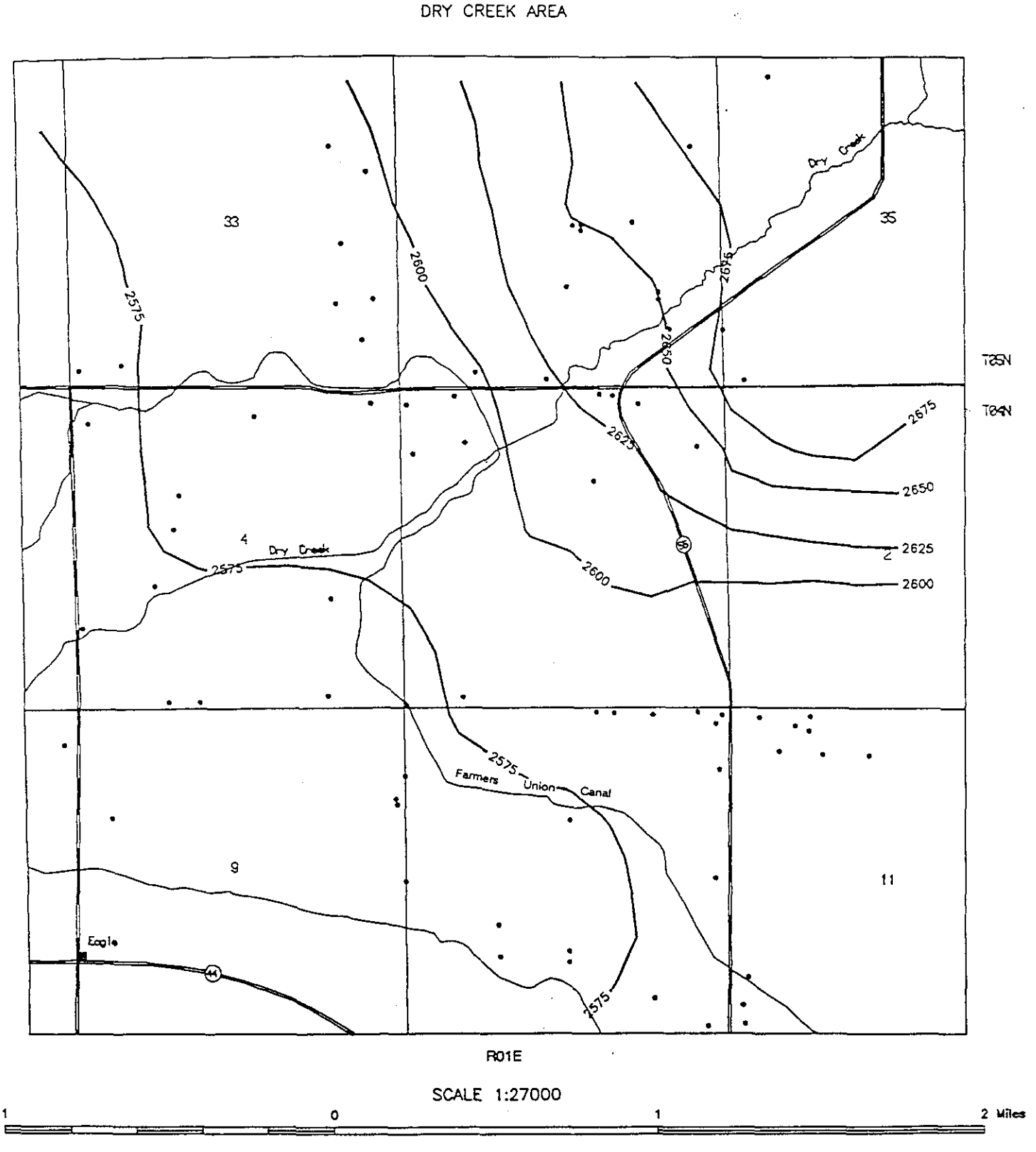


Figure 8. GENERALIZED POTENTIOMETRIC SURFACE MAP, SPRING 1989

increases. As pumpage increases in an area, more water is removed from storage. If the amount of land that is irrigated with surface water is reduced with time, then the amount available for recharge to the ground-water system is also reduced. Each of these factors contributes to long-term changes in storage.

Little data is available on the long-term trends of ground-water storage in the Dry Creek area. Water-level hydrographs of wells 04N-01E-03DAD1 and 05N-01E-34DBB1 are shown on Figure 9. Both wells are monitored by the USGS and are currently the only wells in the study area that have depth to water measured in them regularly.

Of the two wells, 05N-01E-34DBB1 is the only well that has a sufficient period of record to warrant some analysis. Long-term trends in water levels for this well generally follow annual variations in precipitation. During the 1970's, precipitation was generally at or slightly below average as were water levels. Whereas, in early 1980's, precipitation was above average and so were water levels. Since 1987, drought conditions have prevailed and water levels have been on a downward trend. Water levels have only varied about 3 feet from highest trough to lowest trough, suggesting that recharge and discharge have remained relatively constant.

Another source of limited information that indicates what changes in ground-water storage have occurred over time are the differences between two periods of mass water-level measurements. Six wells that were measured in fall 1989 by IDWR had also been measured for Dion's (1972) study in the fall of 1970. Based on this sparsely-distributed data, a water-level change map was constructed and is shown on Figure 10.

As can be seen, the southwest portion of the study area has experienced greater than five feet of water-level decline over the 19 year period. Several factors are probably responsible for the observed declines. Natural recharge has undoubtedly been reduced with the recent drought conditions. Since 1977, the annual amount of water diverted into the Farmers Union Canal has declined by greater than 10 percent from the preceding 27 year period and as result artificial recharge to the ground-water system has also been reduced. Increased pumpage in this area may also be responsible for the observed declines. Several public supply and irrigation wells have been completed in this area during the 19 year time span.

Based on measurements in well 04N-01E-11BBB1, there has been a few feet of rise in water level in this area. Increased development in the Dry Creek area does not appear to have had adverse effects on local water levels during this 19 year period.

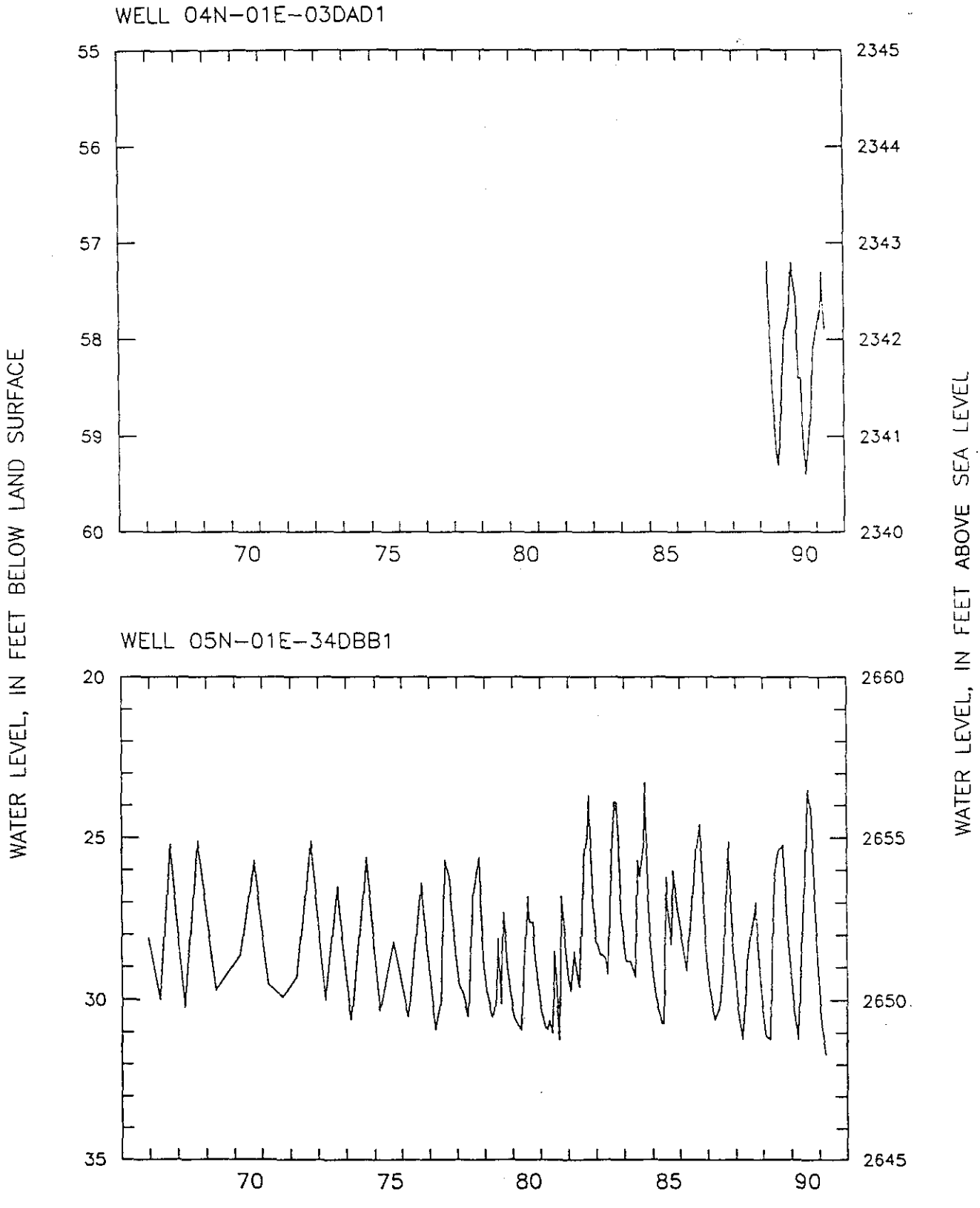


Figure 9. HYDROGRAPHS OF WELLS 04N-01E-03DAD1 AND 05N-01E-34DBB1

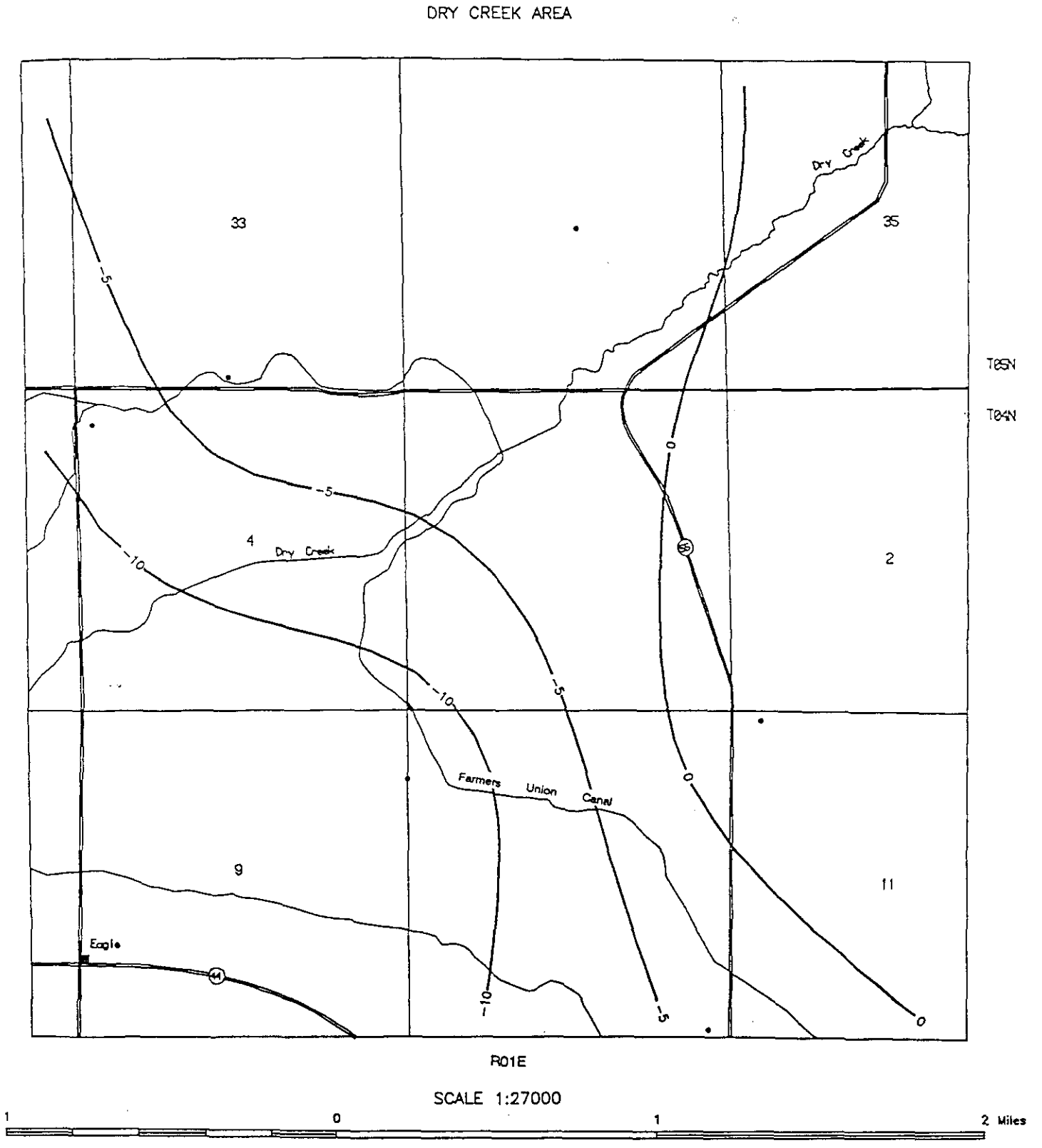


Figure 10. GENERALIZED WATER-LEVEL CHANGE MAP, FALL 1970-89

Ground-Water Hydraulics

Long-Term Aquifer Test

On March 26, 1991, a 30-day aquifer test was initiated at well 04N-01E-03CCC1 in order to determine the effects of pumping this well on the local ground-water system. The well was pumped continuously during the test at an average rate of 743 gallons per minute (gpm). Drawdown was measured in the pumping well along with several wells in the immediate area. A listing of the observed drawdowns in selected wells at the end of pumping is shown on Table 2. A brief summary and interpretation of the test results follows. For a more detailed discussion of the test, refer to the consultants' report (Feast, 1991) cited in the list of references.

Table 2. Observed drawdowns after pumping well 04N-01E-03CCC1 for 30 days

Well number	Distance from pumping well (ft)	Drawdown after 30 days of pumping (ft)	Remarks
04N-01E-03CCC1	--	81.0	--
03CCD1	800	3.84	--
10BAB1	1350	2.47	--
09ADA1	2300	1.04	--
04CDD1	3600	1.03	Wells pumping to the southwest of this well may have contributed to observed drawdown.
03DAD1	4900	--	No measurable effects were observed.
10AAA1	5000	--	No discernable effects were observed, however, measuring device inaccuracy may have contributed to this.

Conventional methods that are used to analyze aquifer tests and determine hydraulic properties of an aquifer system are not able to account for the complexities that were encountered during this test. These complexities include the following: 1) the high degree of stratification (layering) of the water-bearing material which greatly slowed the vertical movement of water to the pumping well and caused drawdown trends to steepen with time as delayed drainage gradually lessened; 2) lateral variations in sediment composition caused the cone of depression to be asymmetrical (that is, the cone was steeper but of less areal extent towards the area of low sand/clay ratio than it was in opposing directions at any given

time); and 3) two weeks into the test, water was diverted into Farmers Union Canal which provided recharge to the ground-water system late in the test.

Based on the early-time data acquired from the test (before the effects of the above complexities became significant), the hydraulic properties of the aquifer system were estimated. These data imply that the transmissivity (T) of the aquifer system in the vicinity of the pumped well is between 33000 to 92000 feet squared per day (ft^2/d) or 247,000 to 688,000 gallons per day per square foot (gpd/ft^2). The estimated storage coefficient (S) ranges from 6.4×10^{-4} to 8.4×10^{-2}. The reasons for the large range in S values is probably the result of delayed drainage of the cone of depression and the different depths that the observation wells are completed in the aquifer system. After sufficient time when the effects of the delayed drainage would have lessened, the aquifer system would probably have responded as an unconfined system and as a result have an S in the range of 10^{-2} to 10^{-1}. However, with all the complexities that occurred later in the test this theory can only be evaluated with a more sophisticated numerical model. Lack of data and limited time did not allow this approach to be tested.

Due to the factors that where encountered during this test, the reliability of predicting the long-term effects of pumping well 04N-01E-03CCC1 are extremely limited. However, assuming that steady-state conditions prevailed late in the test (in other words, observed drawdown trends would have remained unchanged with continued pumping), the following predictions were made. By extrapolating these late-time trends five more months into the future and adjusting the pumping rate for the anticipated long-term discharge rate of 1000 gpm, the configuration of the cone of depression was constructed and is shown on Figure 11. As can be seen, the cone is depicted as being symmetrical in shape when in actuality it probably is not. Limited information as to its actual shape required this simplification. As a result, estimated drawdowns may be less than what are shown in the area of low sand/clay ratio and greater in the opposing directions. Because of the uncertainty of what effects the cessation of artificial recharge at the end of the irrigation season would have had on the expanding cone of depression, it was not possible to extend the observed drawdown trends any further in time.

Well Interference versus Well Density

Many of the complaints that IDWR has received in the Dry Creek area concerning declining well yields have been concentrated in the foothills area. This type of problem is commonly related to greater pumping lifts that are caused by declining water levels. The poor water-bearing properties of the material in this area and close proximity of wells to each other probably contributes to this problem, especially late in the irrigation season.

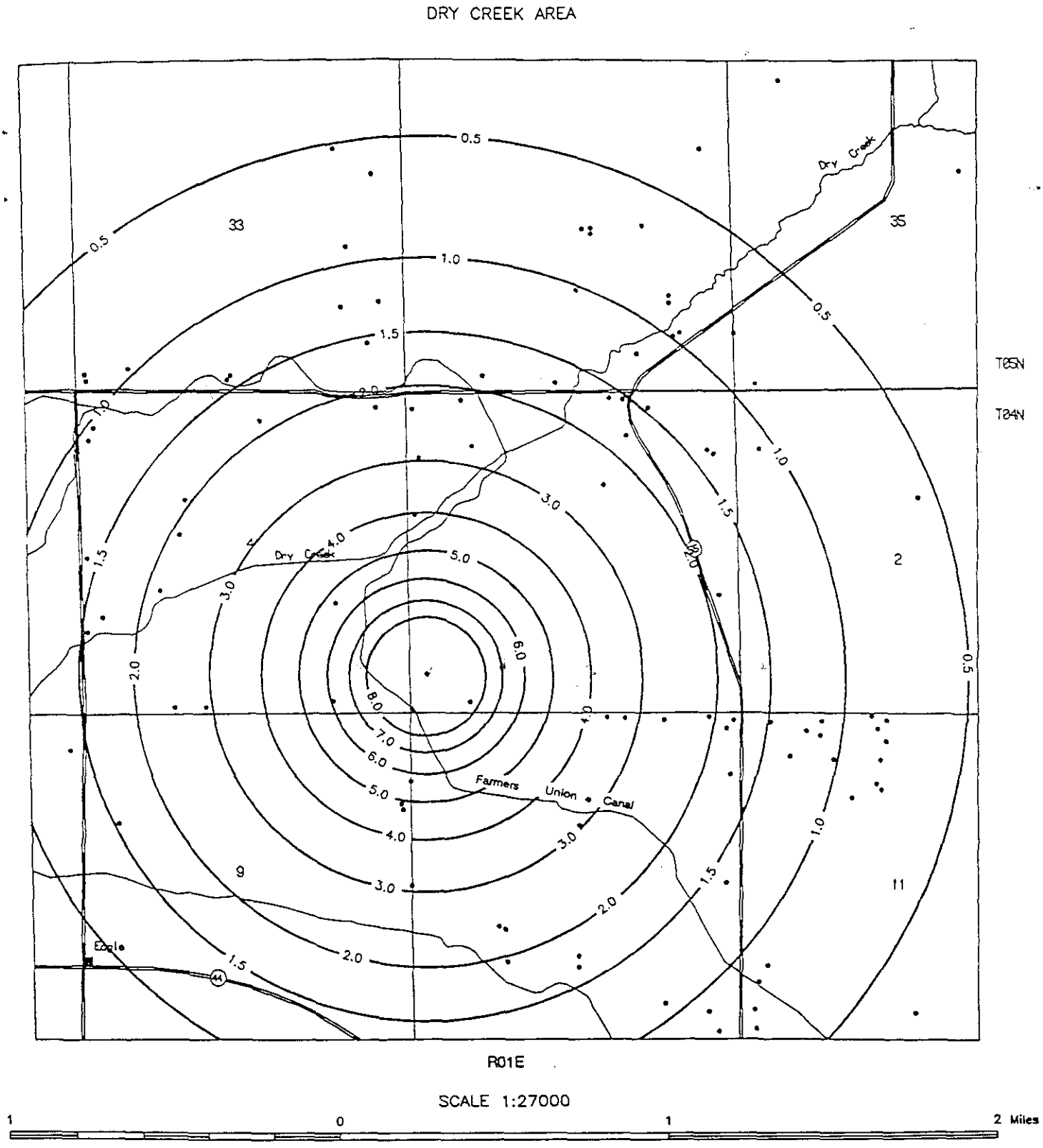


Figure 11. MAP SHOWING ESTIMATED DRAWDOWN FROM PUMPING WELL 04N-01E-03CCC1 AT 1000 GPM FOR 6 MONTHS

A hypothetical analysis of local well interference in this area was performed. According to surveyors' plats of subdivisions in this area, wells appear to be spaced about 250 ft apart from each other on the average. Most lots are thought to have at least one well. Based on well test data from Well Driller's Reports, T appears to average around 1000 ft^2/d or 7500 gpd/ft^2. Since the aquifer system in this area is composed of thin sand stringers interbedded with massive clay layers, it most likely occurs under confined conditions with S ranging around 10^{-4}.

Based on the above parameters, the cumulative effects of drawdown in a given well from 24 other equally-spaced wells pumping at the same rate are as follows. At the end of the irrigation season (approximately 180 days), each well pumping 1 gpm continuously would result in almost 4 ft of additional drawdown in a given well. During short-term but increased use the following effects were estimated. If each well is pumping 10 gpm continuously for 8 hours, the additional drawdown would be around 16 ft.

This analysis has shown that local well interference in the foothills area can significantly add to the observed well yield declines. Other factors, such as extended periods of below-normal precipitation, faulty well construction, and additional groundwater development in adjacent areas can also contribute to these more localized problems.

Well Construction Practices

Well construction practices vary greatly throughout the study area. The type of construction used to complete a well can greatly affect its life and efficiency. Due to the fine-grained nature of the water-bearing material in the area, the production of sand from wells can be a significant problem. Many wells in the area are completed with a minimum amount of casing. This causes a large portion of the hole to be unsupported and allows sediments to slough into a well. Over time, the yield of a well can decline because of the gradual loss of the amount of open interval in a well. Pumping sand can also cause excessive wear to a pump and require it to be serviced more frequently.

The best method of well construction to use in Dry Creek area to inhibit the sand production includes the following. Factory-wrapped well screen should be selectively set adjacent to each of the principal permeable zones encountered in the well. Blank well casing is then installed between each of the screened intervals. A gravel envelope should be placed in the annulus between the wall of the hole and the wall of casing adjacent to the screen intervals. Finally, the well should be completely developed before the well is put into use. This type of well is initially more expensive, but will be worth it over the long haul with the cost savings from the elimination of sand filters, well cleaning and/or deepening, and pump repairs.

A statistical comparison between well use and selected well characteristics was performed. The results of this analysis are shown on Table 3. The term specific capacity (SC) is defined as the yield of a well in gpm per foot of drawdown. Note the difference between each of the average specific capacities for domestic wells in the two topographic settings. The average SC for the lowlands is about double the value for the foothills. This means the average amount of drawdown in a domestic well located in the foothills is about twice that of a domestic well in the lowlands for a given discharge rate. Also notice the greater SC values for the irrigation and public supply wells in the lowlands than domestic wells in the same area. The reasons for this are probably related to the larger well diameters, greater depth of penetration into the aquifer system and more efficient well construction between the two groups.

Table 3. Comparison between use of well and selected well characteristics

Use of well and topographic settings	Average water level (ft)	Average total depth (ft)	Average open interval[1] (ft)	Average yield (gpm)	Average specific capacity (gpm/ft)	Number of wells
Domestic						
Lowlands	50.2	124.9	23.6	30.8	4.4	221
Foothills	129.6	274.7	85.1	27.6	2.1	62
Irrigation						
Lowlands	64.4	188.5	53.4	177.4	10.0	17
Public supply						
Lowlands	58.6	301.1	54.1	340.0	13.9	7

[1] Includes all uncased, perforated, and screened intervals in a well

GROUND-WATER QUALITY

Limited information is available regarding the quality of the ground water in the Dry Creek area. A total of ten samples have been collected and analyzed from eight wells in the study area. The samples were acquired during various studies and/or time periods. One sample was collected during Nace and others' (1957) study, six others were taken for Dion's (1972) study, and the remaining three were obtained during miscellaneous visits to the area. The results of the analyses are shown on Table 4.

Ground water in the study area appears to be a calcium-sodium bicarbonate type. The water ranges from low to slightly mineralized and is moderately hard to very hard. No analyses of dissolved iron were performed on any of the samples. However, due to reports by well owners regarding red iron staining in laundry and plumbing fixtures, iron concentrations probably exceed 0.3 mg/L in some areas. The reasons for the hardness and high iron content in the ground water are probably from naturally occurring factors and are related to the mineral composition of water-bearing material.

The concentrations of most analyzed constituents are within the range of the recommended drinking water standards established by the U.S. Environmental Protection Agency (1976). Fluoride concentrations in well 05N-01E-35ACA1 was the only case where the recommended levels were exceeded. According to EPA, excessive levels of fluoride in drinking water supplies can produce objectionable dental fluorosis.

Table 4. Chemical analyses of water from selected wells

(All constituents reported in mg/L)

Well number	Sample date	Specific conductance (µmhos/cm)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)
04N-01E-04BBC1	08/13/70	461	43	7.2	50	3.2	270	15	2.0	0.30	9.5
10AAA1	08/21/53	390	32	6.0	38	2.0	190	30	9.0	--	--
10BBC1	06/25/70	363	--	--	--	--	--	--	5.0	--	3.7
10DDD1	07/15/70	236	--	--	--	--	--	--	1.0	--	1.8
11BBB1	06/25/70	367	--	--	--	--	--	--	10	0.90	--
05N-01E-34DBB1	10/07/75	612	65	18	39	4.5	300	91	8.4	0.60	--
34DCD1	06/25/70	652	--	--	--	--	--	--	13	--	4.6
35ACA1	03/25/70	245	--	--	--	--	--	--	--	13	--
	05/31/72	285	4.3	0.10	57	3.2	110	23	4.9	11	--
	09/02/88	283	3.8	0.08	58	3.1	--	24	4.7	8.3	--

CONCLUSIONS

According to available information, it appears that the ground-water resources in the Dry Creek area are not currently over-developed. That is, the current annual discharge rate for the area does not appear to exceed the long-term annual recharge rate. However, the effects of further development of the ground-water system are uncertain and continued monitoring of water levels in the area is essential.

Local declines in the potentiometric surface have occurred, but available data indicate the amount of these declines have been minor in comparison to the saturated thickness of the entire aquifer system. Four consecutive years of drought have undoubtedly reduced the amount of recharge to the area and have caused water levels in wells to be lower. Due to the poor hydraulic properties of the aquifer system in the area of low sand/clay ratio (see Figure 2), well spacing appears to be a major factor in contributing to the declining well yields that have been experienced in this area. Faulty well construction practices have also added to well owners' problems throughout the study area.

RECOMMENDATIONS

The current observation well network in the Dry Creek area is inadequate to monitor the effects of continued development of the ground-water resources in the area. Another observation well should be located in the southwest portion of the study area where development appears to be most concentrated. Well 04N-01E-04CDD1 (see Figure 2) seems like a good candidate. It is an unused irrigation well that is about 300 ft deep. A Well Driller's Report does not appear to exist for the well, so little is currently known about its completion. Therefore, it would be extremely useful to have the well geophysically logged so that the open interval and nature of the water-bearing material can be determined. An arrangement should be made with the well owner, so the well can be used for monitoring for a extended period of time. This well could be added to the IDWR-USGS cooperative observation well network.

As more farm land is used for multi-family subdivisions, the increased demand on the ground-water system in the Dry Creek area is not the only change that would be imposed on it. A reduction in the amount of artificial recharge from unconsumed surface water could also result if surface water irrigation is not continued in these areas. Therefore, if development is allowed to expand, it is crucial that all economically-feasible steps be taken to continue the use of surface water for irrigation. This will also reduce the amount of ground water that is pumped.

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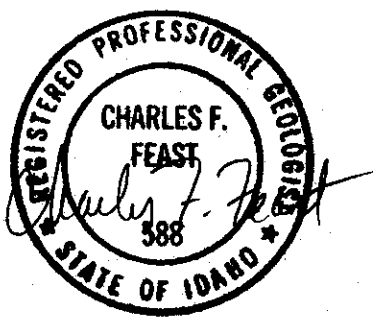
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RESULTS OF THE 30-DAY PUMPING TEST AND AQUIFER ANALYSIS

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Prepared for

FLOATING FEATHER HILLS, INC.



Prepared by

CH2M HILL
Boise, Idaho

OCT 01 1991

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BOI31684.A1

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INTRODUCTION

Floating Feather Hills, Inc. (FFH, Inc.) filed Application No. 63-11413 to divert 5 cubic feet per second (cfs) of groundwater to supply potable water service, fire protection, and limited irrigation flow for a proposed housing development north of Floating Feather Road, northeast of Eagle, Idaho. The application was subsequently amended to include supplying water to an adjoining proposed development known as Trail Creek Ranch. The water rights application identifies four possible points of diversion for groundwater. The properties to be served and proposed points of diversion are shown in Figure 1. A copy of the water rights application is provided in Appendix A

Approximately 90 protests to the FFH, Inc. water rights application were filed with the Idaho Department of Water Resources (IDWR) by concerned area residents. In response to these protestants and because of limited information on the hydrologic characteristics of the aquifers in the area, FFH, Inc. agreed to install a test/production well and conduct a long-term (30-day) aquifer test. The purpose of the test was to obtain direct information on aquifer characteristics and to use that information to evaluate the impact the proposed groundwater diversions may have on the water resources of the area.

Mr. Sherl Chapman, consulting geologist, Boise, Idaho, was retained by FFH, Inc. to design, install, and test the test/production well and to determine the maximum pumping rate and pump requirements for the pumping test. CH2M HILL was retained to conduct the long-term pumping test, analyze the data, and evaluate long-term pumping effects on the aquifer.

This report presents the findings, analysis, and conclusions from the installation of the test well, the aquifer test, and evaluation of potential effects stemming from the proposed groundwater withdrawals.

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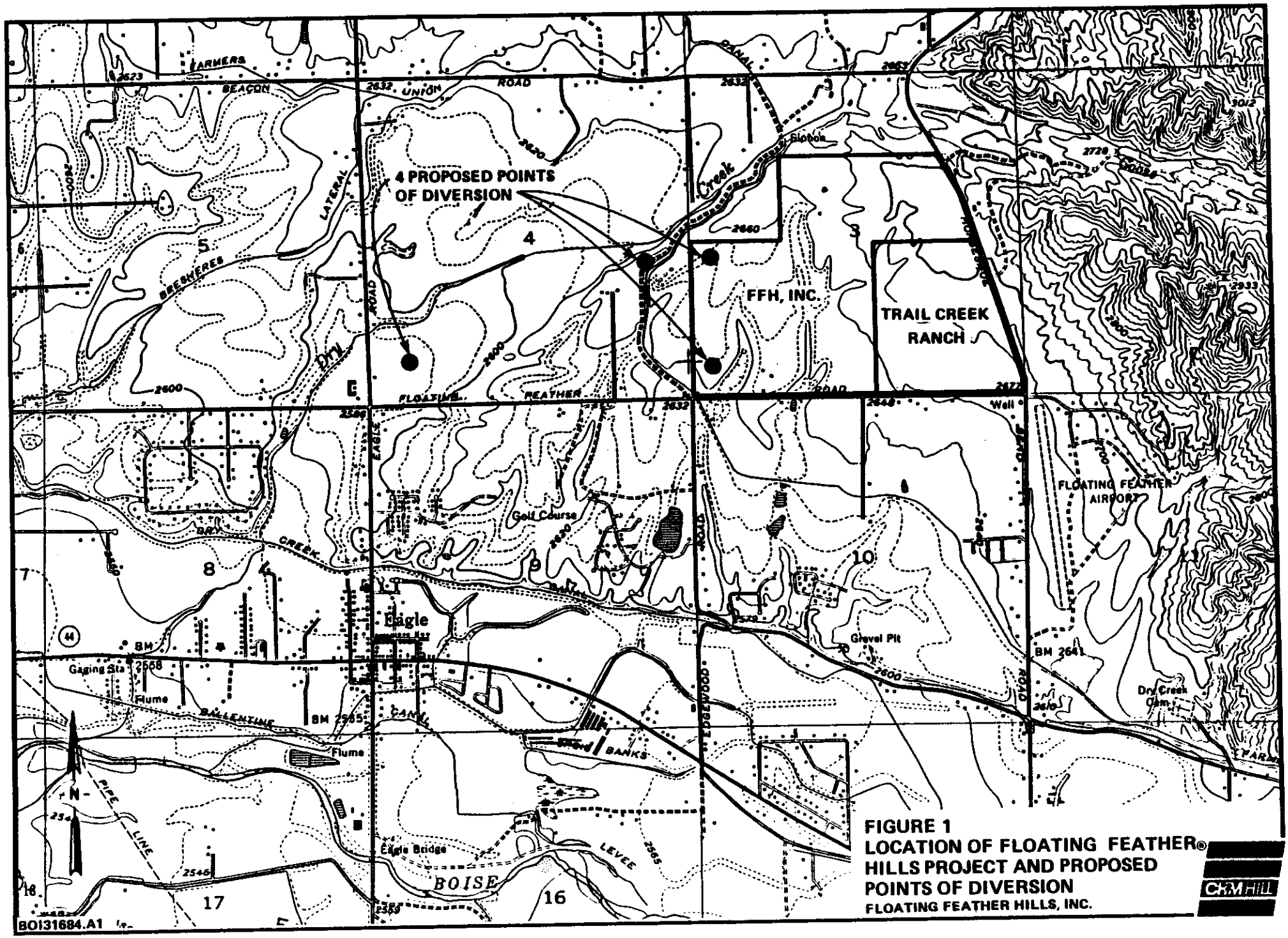


FIGURE 1
LOCATION OF FLOATING FEATHER® HILLS PROJECT AND PROPOSED POINTS OF DIVERSION
FLOATING FEATHER HILLS, INC.

CH2MHILL

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SUMMARY AND CONCLUSIONS

SUMMARY

The FFH, Inc. test/production well was drilled and installed to 415 feet into a thick sequence of bedded sands and sandy clays. The well produces a sustained 750 gallons per minute and is capable of producing 900 gallons per minute for shorter durations.

The aquifer is characterized as a thick, complexly bedded water table system. Near the production well and for early pumping periods gravity drainage is significant and must be accounted for when analyzing water level responses in observation wells. The effect of gravity drainage diminishes with distance and time. The sources of recharge to the aquifer were listed but insufficient data exist to quantify recharge. Lateral inflow from the aquifer margin to the north and east and seepage from canal and irrigation laterals are probably the most significant sources of water.

The aquifer test was a success by many indicators. The cooperation of local residents and well owners allowed a good evaluation of the aquifer over a large area. The production well, test pumping equipment, and observation wells all performed well during the test with no significant problems, interruptions, or loss of data. Only one 1-hour interruption of pumping over a 30-day period was experienced because of an electrical power surge.

Water level data from eight observation wells and the production well were collected during the test. Water level recorders were installed on three wells and the U.S. Geological Survey (USGS) maintained their recorder on one of the eight observation wells. Initial water levels were collected beginning up to 2 weeks before the test in some wells and continued through the recovery period about 2 weeks after the pump was shut off.

The aquifer characteristics of transmissivity (T) and storage coefficient (S) were determined from the water level responses recorded at the production well and four observation wells. Observed drawdowns ranged from about 4 feet to less than 1 foot.

No response was observed in two observation wells. Recharge from the production well discharge affected the water level in one well. Because of interferences from pump oil on the water surface, the resolution of water level measurements in one observation well was insufficient to determine effect or aquifer properties.

The calculated transmissivity of the aquifer ranges from about 100,000 gpd/ft in the vicinity of the production well to over 250,000 to the south and west. This apparent increase in transmissivity is consistent with the general understanding of the aquifer from IDWR evaluations and from well logs in the area, which show the aquifer thickening and well yields increasing to the west and south. Storage coefficients determined from the pumping tests are indicative of a stratified water table aquifer or very leaky artesian aquifer. Storage coefficients ranged from 0.04 to 0.001.

The long-term pumping rate for use in aquifer simulations was estimated at 1,000 gallons per minute (gpm). This was based on assumptions on the total number of homes and assumptions on the use of potable water for irrigation use by a percentage of the homes. Seasonally, the estimated demand varies from 278 gpm during the nonirrigation season to 1,100 gpm for the irrigation period. Two production wells will be needed to satisfy the 1,000-gpm demand and to comply with standards for potable water systems. The second well will be located in a proposed park approximately 1,800 feet north of the test/production well installed for this test.

Simulations of the aquifer using representative values for T and S, pumping rates of 278 and 1,000 gpm, and durations from 6 months to 30 years were performed using an analytical model. The aquifer response is quick in that there is little significant change in drawdowns from 1 to 30 years. Drawdown in the aquifer in the vicinity of the production wells will be 10 to 20 feet.

Other simulations were prepared by varying the pumping period and pumping rates based on assumptions of shorter periods being representative of no recharge conditions during the winter. Drawdowns from these simulations ranged from less that 1 foot to about 4 feet at 1 mile. An illustrative example of canal leakage was provided. In this example about 250 gpm of leakage was calculated for the 1.5-mile stretch of Farmers Union Canal that passes by the proposed project. The effect of the illustrative canal

leakage was also simulated. The results with leakage indicated about 1 foot less drawdown.

Results from the worst case simulations indicate the aquifer will experience drawdowns of 7 to 8 feet 1 mile from the production wells. The worst case scenario is considered unrealistic because it assumes no recharge reaches the aquifer for 30 years. Information from IDWR indicates that annual recharge occurs and the aquifer is not currently being overpumped.

CONCLUSIONS

The aquifer is sufficiently thick and productive to yield over 1,000 gpm from the proposed wells.

The proposed groundwater diversion will not create excessive drawdown in the aquifer, although the area affected is large.

The static water level in the aquifer is 60 to 70 feet below ground level and the aquifer is at least 300 feet thick. Most of the wells in the area are 125 to 200 feet deep and, consequently, have 50 to 100 feet of water above the pumps. Worst case drawdowns of 4 to 8 feet in these wells will not cause significant impact.

Several old, shallow wells near the production wells may experience problems because the pumps cannot be lowered. These wells may have to be deepened or replaced.

The groundwater resources of the Eagle area need to be better understood to allow informed decisions on water resource and water rights issues. IDWR should budget for and conduct or participate in a cooperative program with the USGS to collect and disseminate basic groundwater resource information for this area.

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TEST PROCEDURES AND BACKGROUND INFORMATION

PRODUCTION WELL INSTALLATION AND TESTING

The test/production well was installed in the SW¼ of the SW¼ of Section 3, Township 4 North, Range 1 East as shown in Figure 2. The well was drilled by reverse circulation drilling methods by Pete Cope Well Drilling, Meridian, Idaho, from February 26, 1991, to March 7, 1991. A 28-inch-diameter hole was drilled to 415 feet. On March 5, 1991, Dr. Spencer Wood, Boise State University Department of Geology and Geophysics, ran borehole geophysical logs consisting of spontaneous potential (SP), and 16" and 64" normal resistivity logs.

The well was completed with 16-inch-diameter steel casing with a total of 60 feet of stainless steel well screen. The well screen was installed from 215 feet to 265 feet and from 375 feet to 385 feet. Filter pack material and clean gravel was used to fill the annulus between the formation and well casing. A sanitary seal of neat cement grout was placed in the top 100 feet of the annulus. Figure 3 provides a schematic of the construction of the production well. The drillers log and completion report are provided in Appendix B.

On March 14, 1991, the well was developed and a variable-rate pumping test was conducted. The well was pumped at approximately 320 gpm for 1 hour, 750 gpm for 2 hours, and 850 to 900 gpm for 3 hours. A long-term sustained yield of approximately 750 gpm was indicated by the test. Layne Pumps, Nampa, Idaho, provided the diesel-powered, variable-rate pumping equipment to develop and conduct the initial step tests.

TEST PUMPING EQUIPMENT

On March 20, 1991, a 60-horsepower vertical line shaft turbine pump with 8" pump column was set at a depth of 200 feet. A gate valve and inline flow meter was installed at the well head. The flow meter included both an instantaneous analog flow reading and a totalizing digital readout. The pump, valves, and pump control panel were

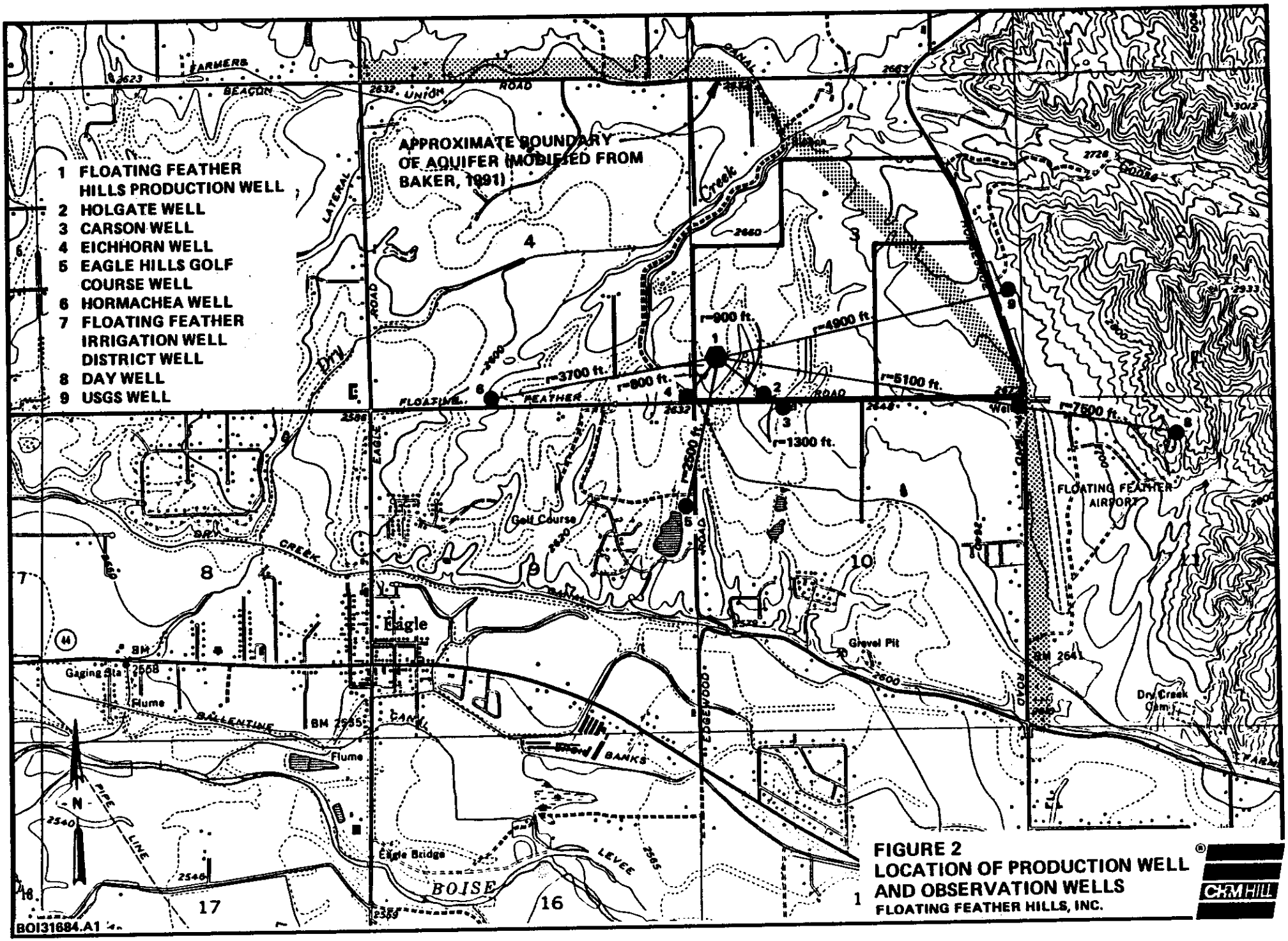
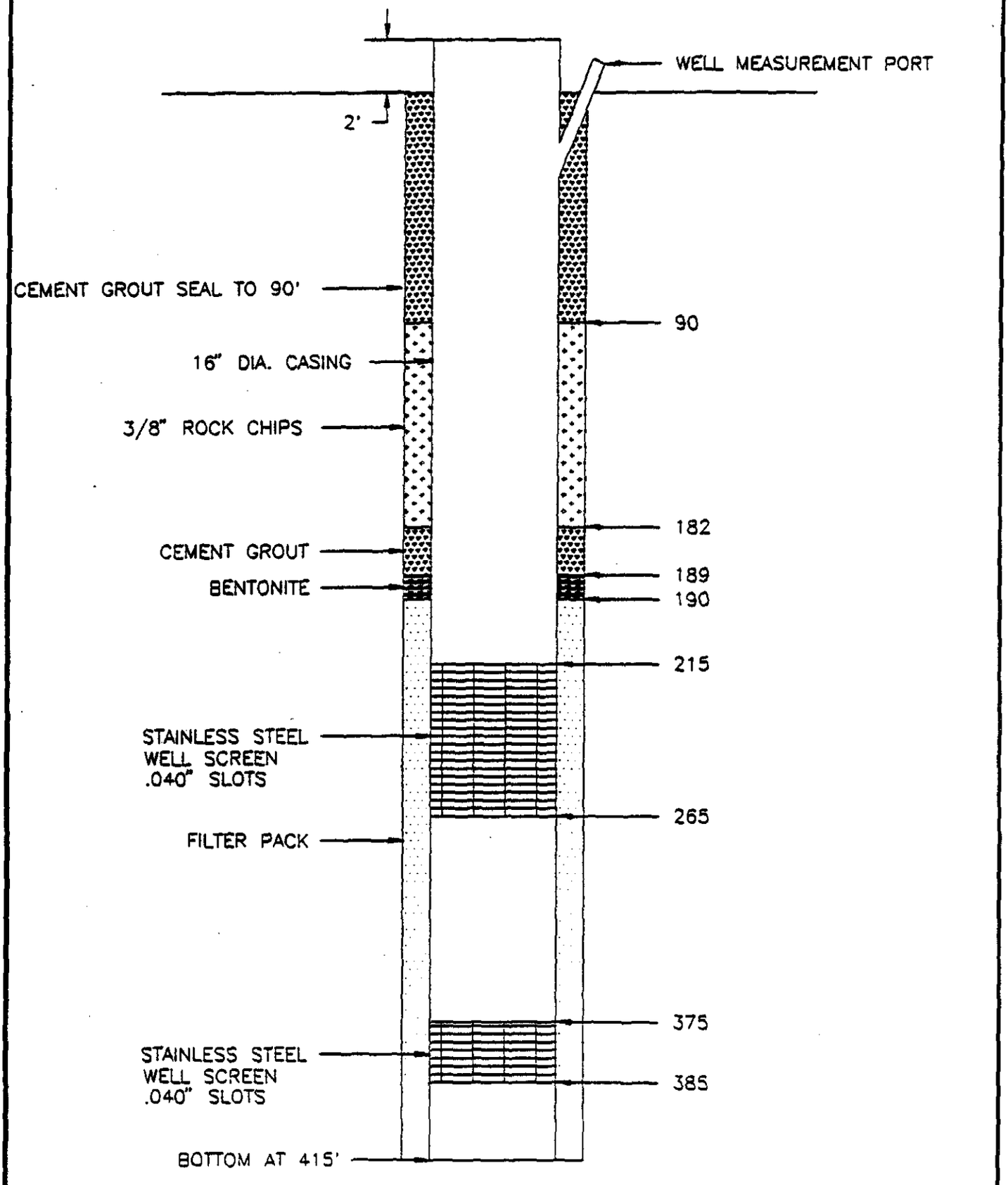


FIGURE 2
LOCATION OF PRODUCTION WELL AND OBSERVATION WELLS
FLOATING FEATHER HILLS, INC.

CH2MHILL



CHAPMAN CONSULTING

BOISE, IDAHO

FIGURE 3
PRODUCTION WELL CONSTRUCTION
FLOATING FEATHER HILLS, INC.

CH2M HILL

leased from Riverside Electric Motor and Pump Specialists, Parma, Idaho. Temporary 460-volt, 3-phase power was established to run the pump.

Aluminum discharge pipe (8-inch diameter) was used to route the pump discharge approximately 400 feet to the southwest to the Farmers Union Canal. Additional valves and piping at the discharge end allowed a portion of the well discharge to be routed to the Eagle Hills Golf Course for irrigation. This arrangement was necessary to allow use of one of the Eagle Hill Golf Course wells as an observation well. The discharge piping was rented from Rain For Rent, Nampa, Idaho.

OBSERVATION WELLS

Numerous existing domestic and irrigation wells and unused wells were volunteered for use as observation wells by residents in the area. The offered wells were evaluated for access, location, use, and construction; eight existing wells were incorporated into an observation well network. No new observation wells were drilled. Figure 2 shows the location of the observation wells used in this test. The individual wells are summarized in the following paragraphs.

HORMACHEA WELL

The Hormachea well is an unused 6-inch-diameter well. The total depth is unknown but is estimated at 350 feet. The confirmed depth is greater than 300 feet. The existing small submersible pump was pulled and a water level recorder was installed on March 20, 1991. Since the well is not used, the pump was not reinstalled. IDWR has maintained the water level recorder installed on the Hormachea well since the test ended.

CARSON WELL

The Carson well is a 4-inch-diameter well approximately 90 feet deep. The well is used for livestock water. The pump was removed from the well for the duration of the pumping portion and the initial recovery portions of the test. The pump was reinstalled in the Carson well about 3 days into the recovery portion of the test.

EAGLE HILLS GOLF COURSE WELL

The Eagle Hills Golf Course (EHGC) has two wells about 50 feet from each other. The pump was pulled from the northerly of the two wells. This is an 8-inch-diameter well approximately 175 feet deep. A water level recorder was installed on the EHGC well on March 20, 1991.

Although only one Eagle Hills Golf Course well was used as an observation well, provisions were made to provide the golf course water from the production well to avoid use of the second well. This was accomplished by a "tee", gate valve and additional aluminum pipe installed at the discharge end of the production well discharge pipe. Approximately 200 gpm was provided to the golf course during the test. The pump was reinstalled in the EHGC well on May 6, 1991.

HOLGATE WELL

The Holgate well is a 6-inch-diameter well approximately 171 feet deep. The pump was pulled, repaired, and reinstalled in the Holgate well on March 19, 1991. During installation the pump cable was securely fastened to the discharge pipe so that water level measurement probes would not become tangled. The Holgate well supplies domestic and livestock water to three residences and ranching operations. Although occasionally water level measurements were delayed because the well was in use, periodic pumping of the Holgate well did not interfere with collecting valid water level data during the test.

EICHHORN WELL

The Eichhorn well is an old 4-inch-diameter well 70 to 90 feet deep. A deep jet pump set at about 70 feet could not be removed and, consequently, this well was equipped with a temporary 3/4-inch PVC water level measurement tube. The tube extended from the top of the pump to ground surface. The top of the well is approximately 5 feet below ground level in a pump house. The Eichhorn well remained in service during the entire pumping and recovery tests. This well serves one residence and rarely was the pump on when a water level measurement was to be taken.

FLOATING FEATHER IRRIGATION DISTRICT WELL

The Floating Feather Irrigation District (FFID) well is an existing 12-inch irrigation well approximately 270 feet deep. An access port on the north side allowed lowering a water level probe to the water without pulling or modifying the pump. However, the well has a significant amount of pump oil on the water column, which hindered getting valid water level measurement and required extensive cleaning of the water level probe each time it was lowered into the well. To avoid fouling the water level probe, this well was equipped with a temporary airline and pressure gage to allow measurement of water levels. This approach limited the sensitivity of water level measurements to about 0.5 foot.

DAY WELL

The Day well is an unused private well located in the Sage Acres Subdivision. This is a 6-inch-diameter well approximately 230 feet deep. A replacement well about 40 feet north of this well was in use periodically during the test. A water level recorder was installed in the Day well on March 23, 1991. A temporary fence was constructed around the well to protect the recorder from livestock. IDWR has continued to operate the water level recorder on the Day well after the test ended.

USGS WELL

The USGS well is a dedicated long-term observation well for this area. Operation of the water level recorder and data collection is provided by cooperative agreement between the USGS and IDWR.

WATER LEVEL MEASUREMENTS

The Day, Hormachea, and Eagle Hills Golf Course wells were equipped with Stevens Type F water level recorders. The recorders were placed on the wells 4 days to 2 weeks before the test began. The recorders were provided by IDWR and were equipped with electric quartz clocks provided by FFH, Inc. The clocks had a maximum pen travel of 2 days per chart, or 1/2 hour per chart division. Vertical gearing was 2:1;

0.2-foot movement in water level produced 0.1 foot of pen movement. All recorders were operated at 2 days per chart until the latter stages of the recovery portion of the test where 4 and 8 days per chart pen travel was used.

The USGS well is equipped with a Stevens Type "A" water level recorder. Data from this well were supplied by USGS.

The test/production well was equipped with a 1/4-inch steel airline set at 190 feet. The airline was equipped with a gage to read directly in feet to water from the pump base, about 2.7 feet above ground level. Compressed oxygen was used to measure water levels with this system.

All other wells were measured by hand using electric well sounders. The primary well sounders used during the test were a Solinst probe and a Slope Indicator probe provided by CH2M HILL. IDWR personnel assisting at the beginning of the pumping test and the beginning of the recovery portions of the test used an Olympia probe. A maximum difference of about 0.1 foot was noted between the probes. Data were corrected to a single probe datum for each well.

Water level data were collected on printed field sheets and on the water level recorder charts. Military time (00:00 to 24:00) was used for all times recorded. Appendix C provides the recorder chart for the USGS well and the computerized version of the field forms for the other wells. Sufficient water levels were picked off the recorder charts from the Day, EHGC, and Hormachea wells to produce representative hydrographs. These data were entered on the pump test forms provided in Appendix C. The original field forms and recorder charts are in the project file at CH2M HILL.

PERSONNEL

Charles Feast of CH2M HILL was in charge of and conducted the test. All water level recorders (except USGS) were installed and serviced by Mr. Feast. Bill and Helen Pardew, local residents, assisted in the test and made many of the water level and pumping rate measurements on a daily basis. Rob Whitney and Laurie White, IDWR,

assisted in the first 1 to 2 hours of both the pumping portion and recovery portions of the test by measuring water levels in the Eichhorn and Carson wells, respectively.

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HYDROGEOLOGIC SETTING

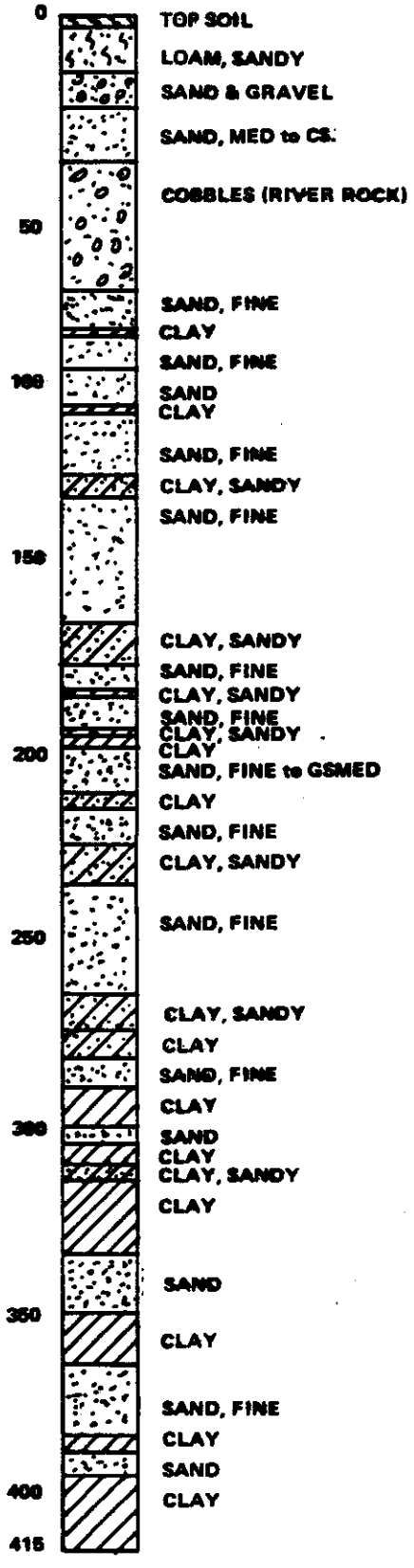
The geologic framework of the aquifer was evaluated from drillers logs and from personal communication with IDWR hydrogeologists. The geologic and geophysical logs from the production well provide the best information on the hydrogeology of the area. The geologic information from this well was relied on to describe the hydrogeologic setting because it was confirmed by direct inspection of cuttings, and the reverse circulation drilling method used provides excellent samples with a minimum of mixing.

Figure 4 provides the geologic and geophysical logs for the production well. Appendix B provides the complete drillers log for the production well. Figure 5 provides a simplified east-west cross section through the study area and illustrates the position and depth of the production and observation wells.

In general, the logs show the study area is underlain by a thick sequence of bedded alluvial sands and silts and clays. This sequence extends at least to the bottom of the production well at 415 feet. The sand beds consist of fine to coarse, generally well sorted quartz sand. The cumulative amount of sand beds decreases somewhat with depth but significant sand beds are present throughout the upper 400 feet. There does not appear to be a significant confining horizon separating the section into distinct aquifers. Although numerous, the interbedded clays and silts are typically thin and sandy. A strata of coarse river rock and cobbles extends from 40 to 75 feet but is largely unsaturated. At around 250 feet the color changes from brown and gray to bluish, suggesting lake sediments of the Glenns Ferry Formation may have been penetrated. Static water level is at about 70 feet.

Based on additional logs and well performance indications, the aquifer apparently thickens to the south and west. This is illustrated by schematic cross sections prepared by IDWR and provided in Appendix D.

GENERAL GEOLOGIC LOG



GEOPHYSICAL LOGS

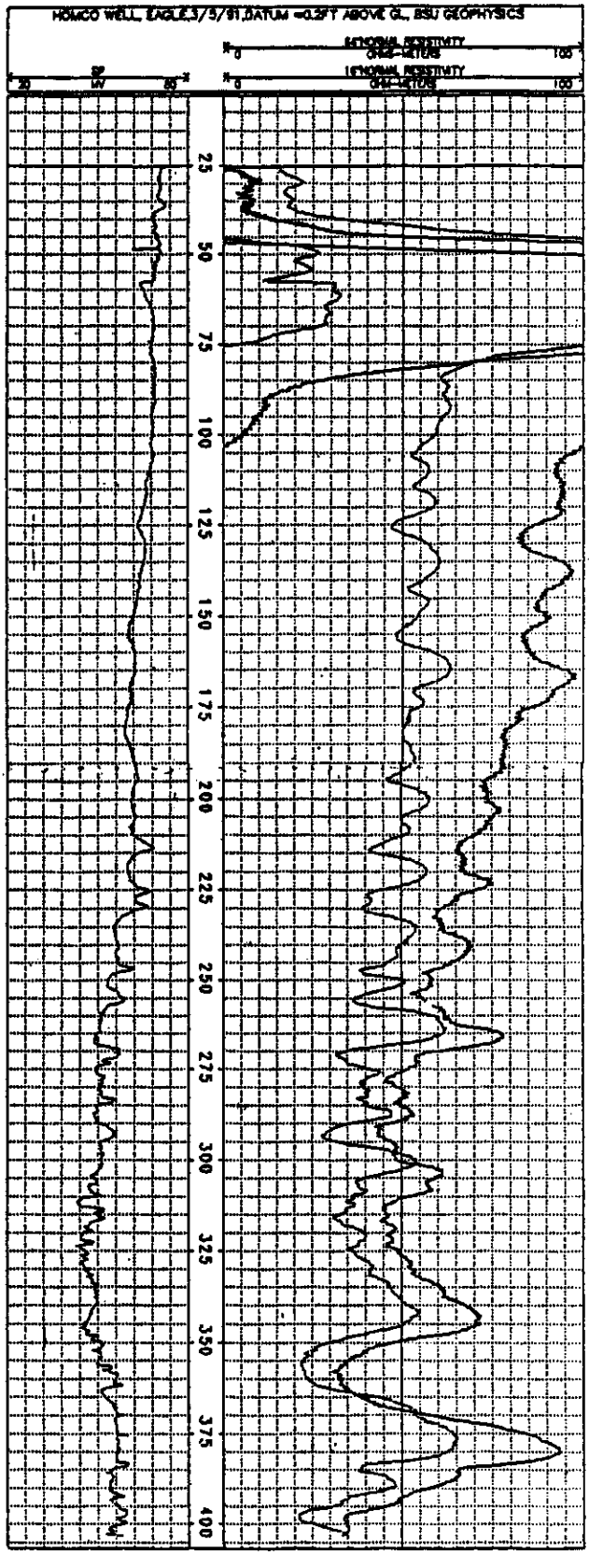


FIGURE 4
GEOLOGIC AND GEOPHYSICAL LOGS FOR THE PRODUCTION WELL
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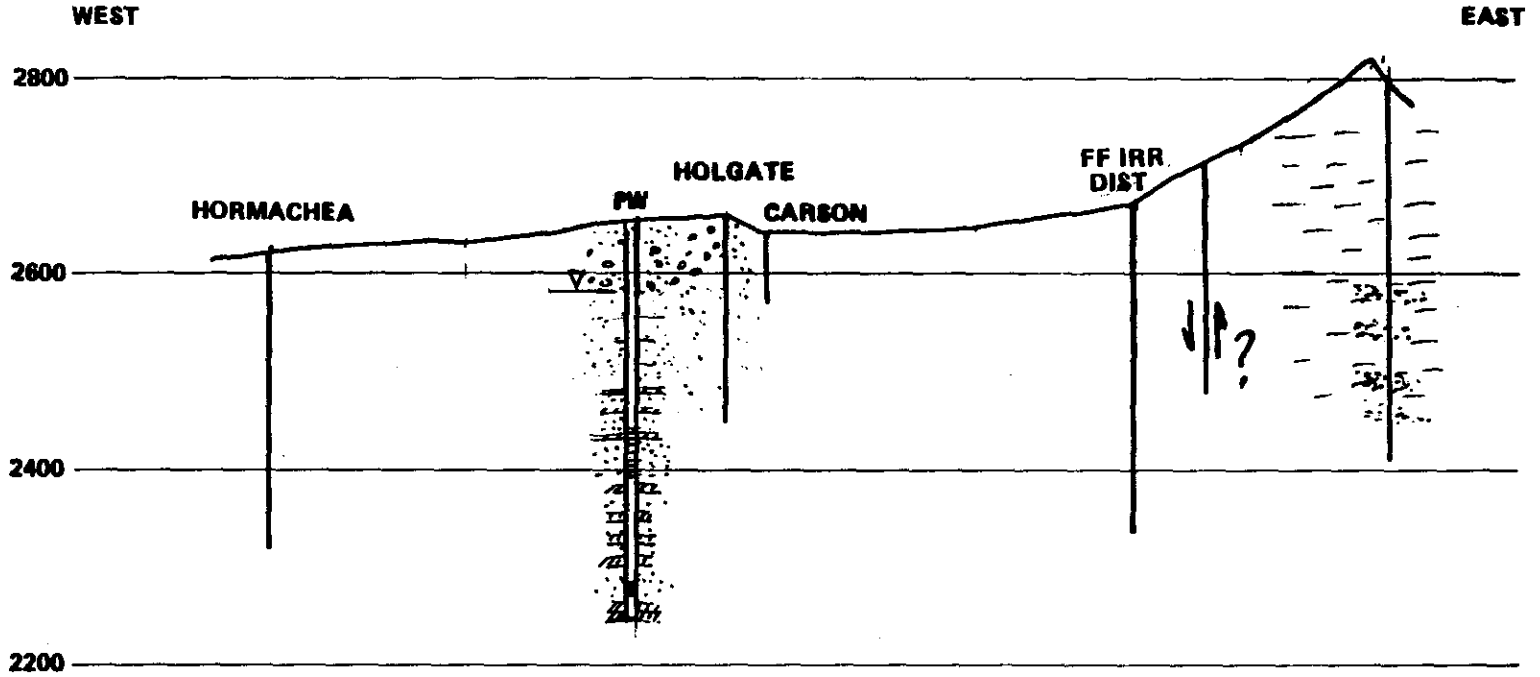


FIGURE 5
EAST-WEST CROSS SECTION SHOWING PRODUCTION AND OBSERVATION WELLS
FLOATING FEATHER HILLS, INC.

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APPROX. SCALE. 1" = 2000'

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Geophysical and stratographic data suggest a major discontinuity bounds the aquifer on the east and north. This discontinuity is generally referred to as a structural offset (geologic fault) but may also be related to erosion and deposition features associated with the ancestral Boise River. East and north of the discontinuity wells are completed in thick, predominantly clay, Glenns Ferry Lake sediments. Thin, fine sand layers supply water to these low-yielding wells. The USGS and Day observation wells used in this test are completed on the east side of this feature. Figure 2 shows the approximate limit of the aquifer tested in this study (modified from Baker, 1991).

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PUMPING TEST RESULTS

PRETEST WATER LEVEL TRENDS

Figures 6 through 13 are hydrographs showing the depth to water versus time for all observation wells (except the USGS well) and the production well throughout the entire test period. A separate hydrograph figure was not produced for the USGS well; however, the full water level charts are provided in Appendix C.

In Holgate, Carson, Hormachea, and EHGC wells, a definite trend of declining water levels was identified prior to the test. This trend ranges from 0.02 foot/day (ft/d) in the Hormachea and EHGC wells to 0.07 ft/d in the Holgate well. A declining water level trend was also indicated in the Eichhorn well but pretest water level data were insufficient to define the rate of decline. Insufficient data were obtained to determine pretest trends in the FFID and production well. No sustained pretest trend could be identified at the Day and USGS wells despite good water level data from the recorders installed on these wells.

No meaningful pretest water level trends could be established for the production well because the water level datum changed too frequently during the final well completion and because of the pretest pumping during development and production pump installation. Based on the assumption that water levels in the production well and the Holgate well were similar, the pretest water level trend shown in Figure 6 is the trend at the Holgate well superimposed to this well.

Although shown as constant linear trends throughout the test period, the pretest water level trends can probably only realistically be extended out 20,000 to 30,000 minutes into the test (April 10 to 15) at which point water was run in the Farmers Union Canal. Leakage from the canal would cause a flattening of the decline or rising water level trends when it finally reaches the aquifer. This may explain why, as shown in Figures 6, 8, 9, and 10, water levels recovered above the predicted water level based on the pretest trend. The effects of declining water levels and adjusted drawdowns are discussed in the section entitled Aquifer Analysis.

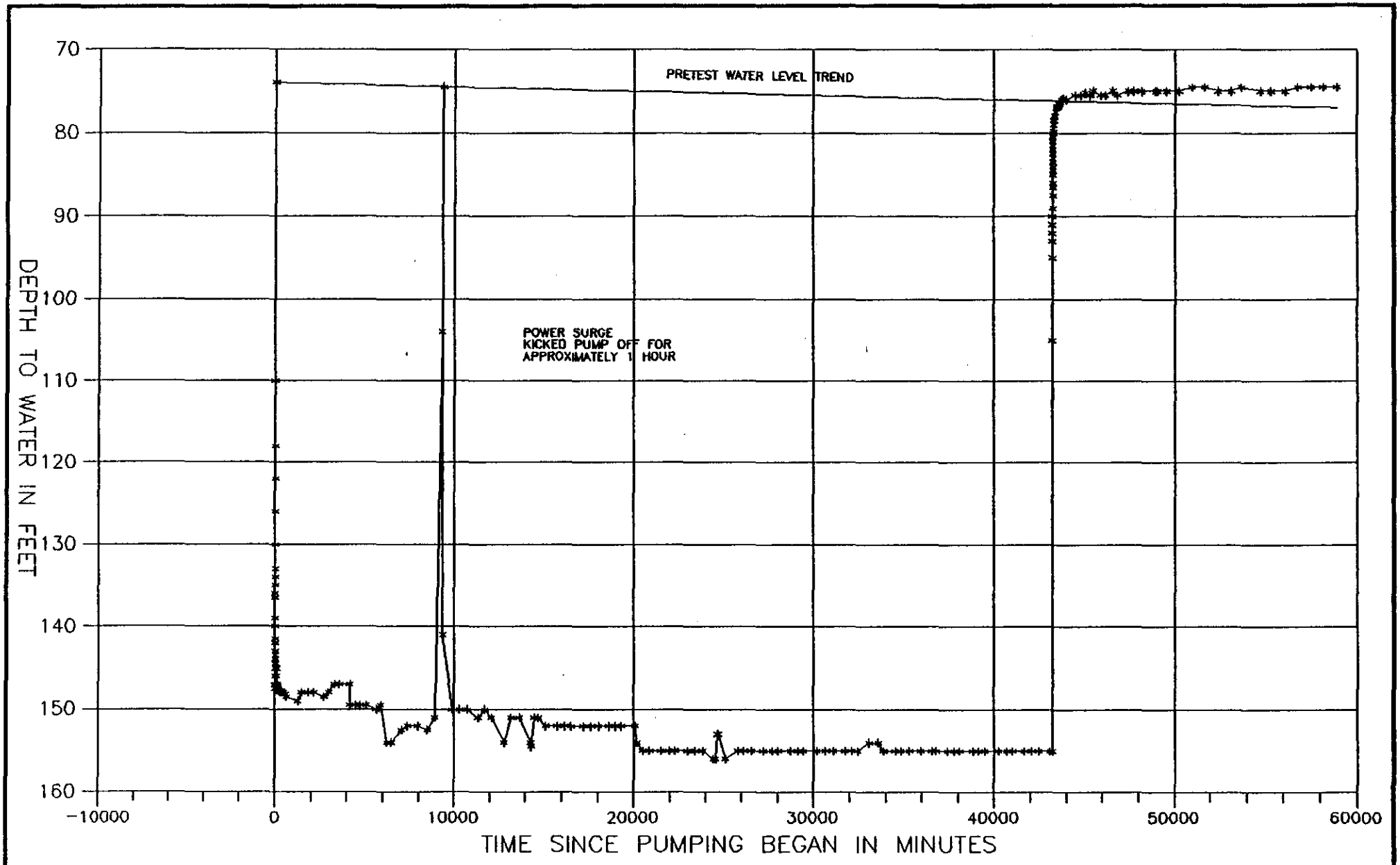


FIGURE 6
PRODUCTION WELL HYDROGRAPH
FLOATING FEATHER HILLS, INC.

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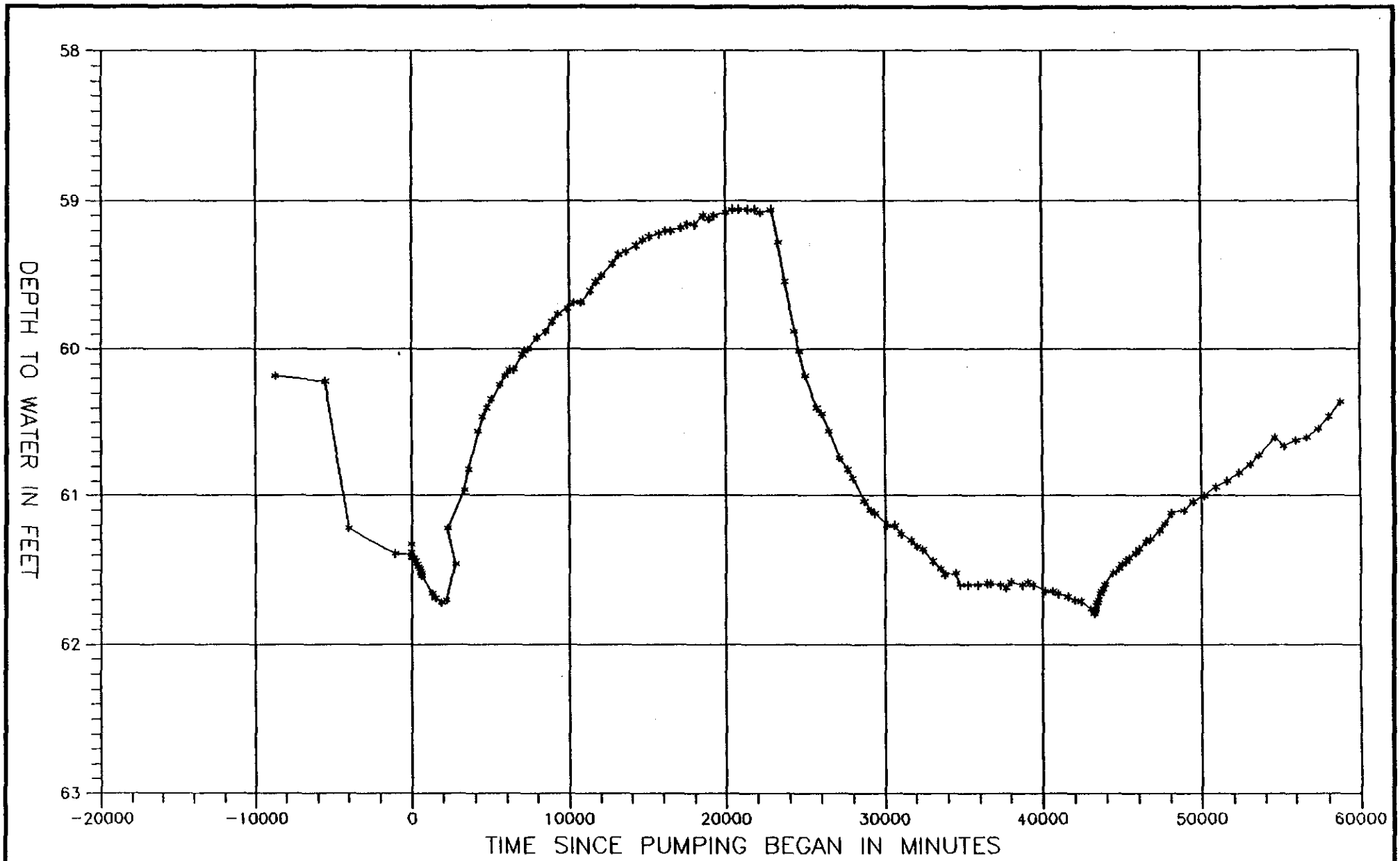


FIGURE 7
EICHHORN WELL HYDROGRAPH
FLOATING FEATHER HILLS, INC.

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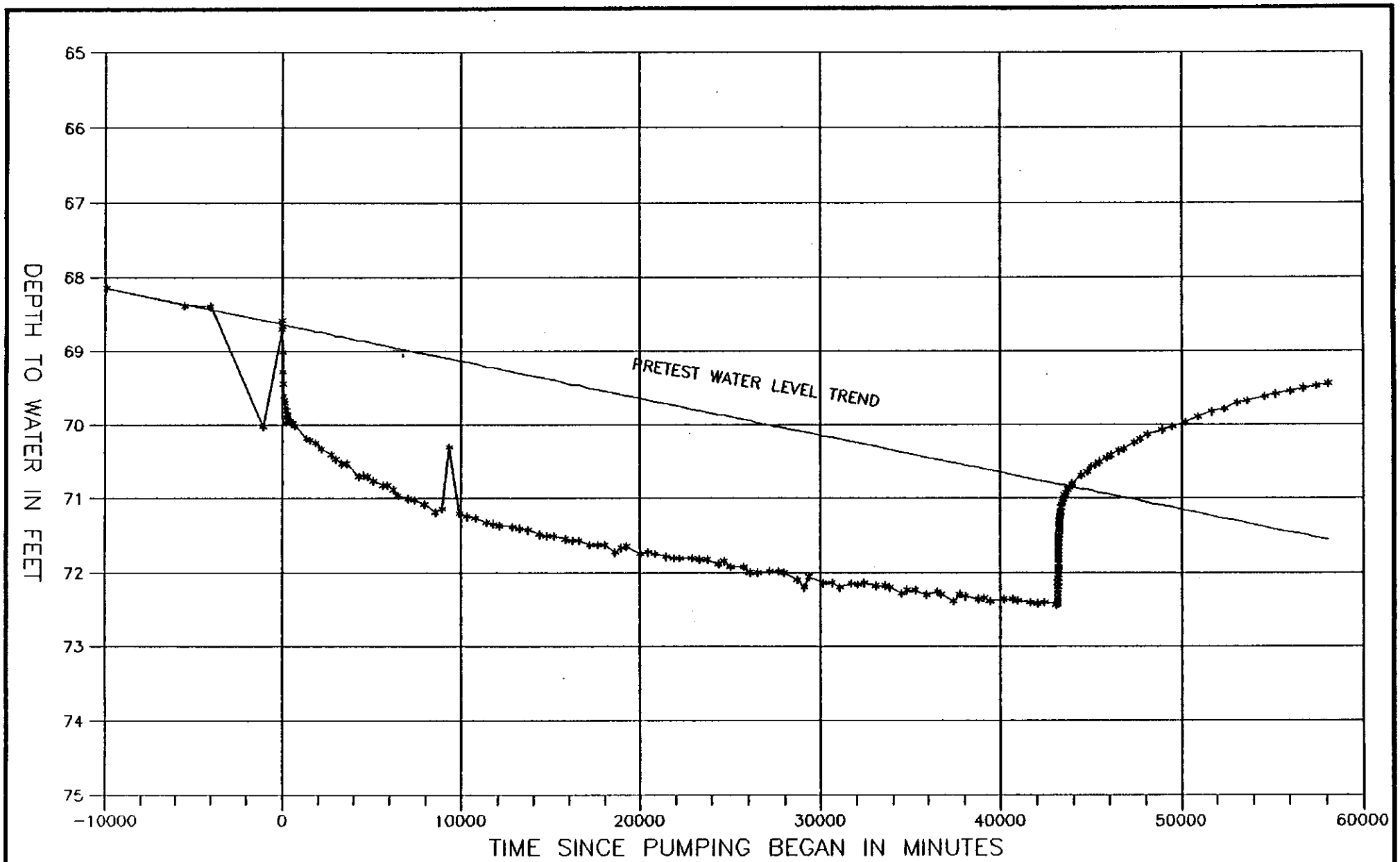


FIGURE 8
HOLGATE WELL HYDROGRAPH
FLOATING FEATHER HILLS, INC.

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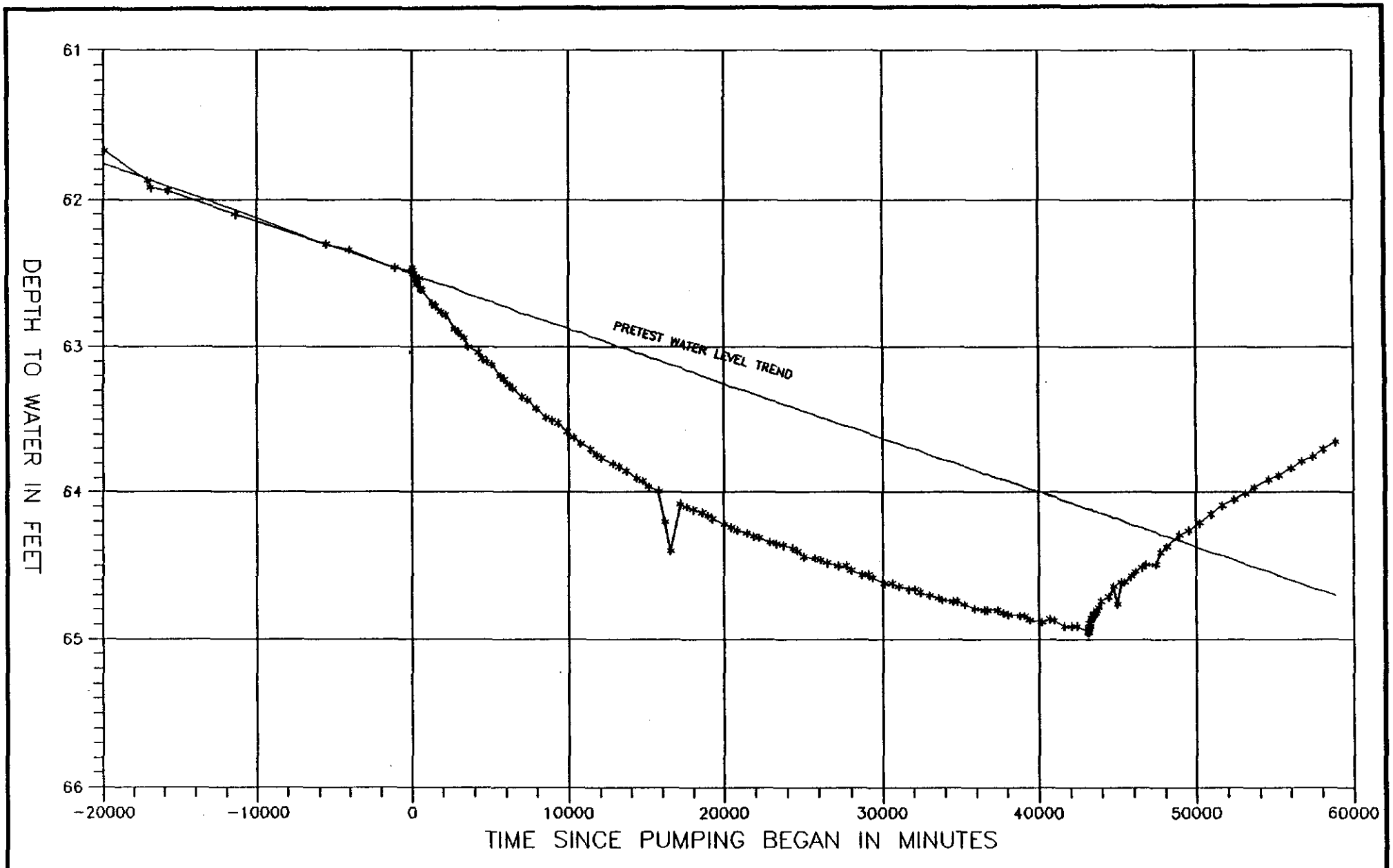


FIGURE 9
CARSON WELL HYDROGRAPH
FLOATING FEATHER HILLS, INC.

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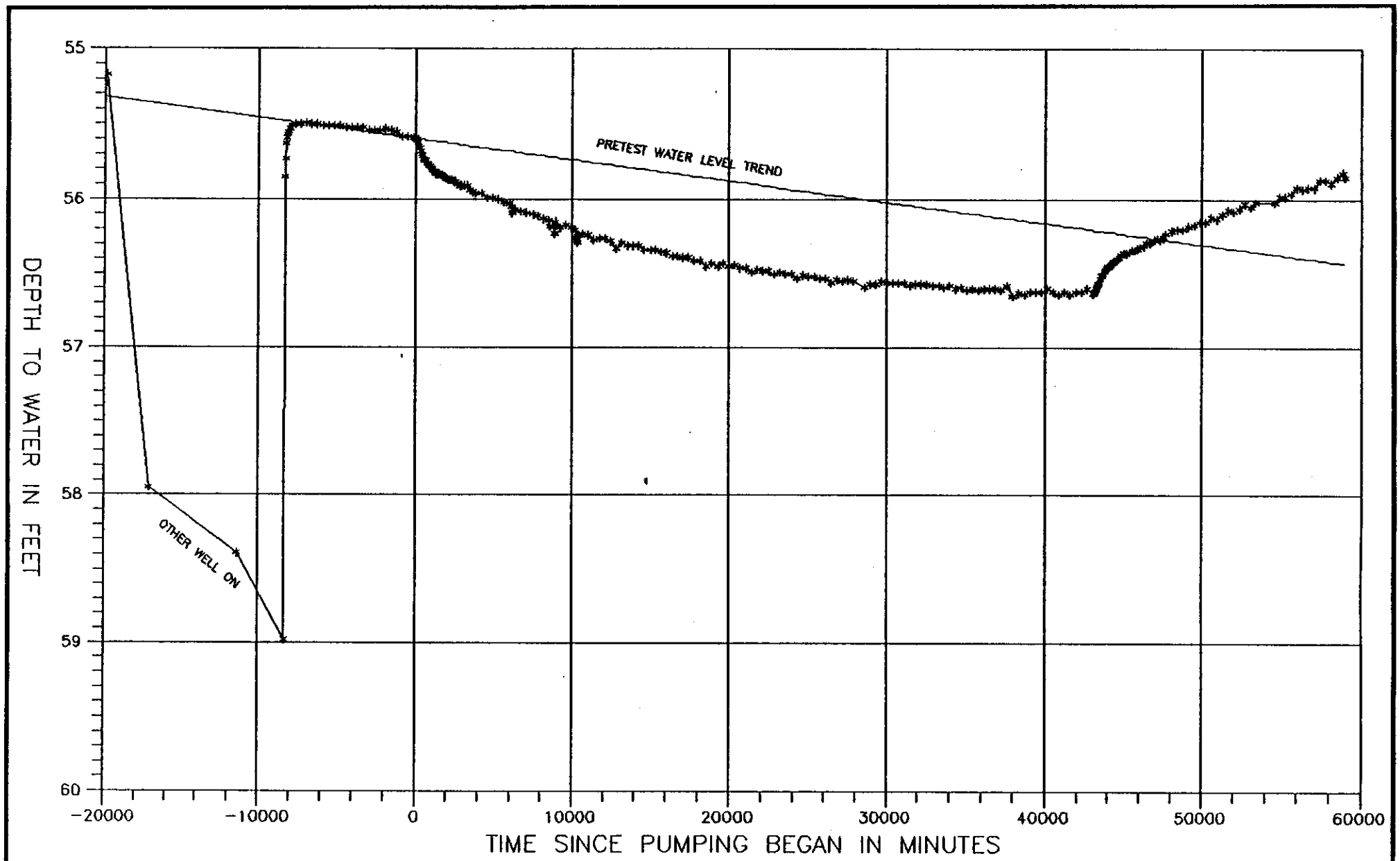


FIGURE 10
EAGLE HILLS GOLF COURSE WELL HYDROGRAPH
FLOATING FEATHER HILLS, INC.

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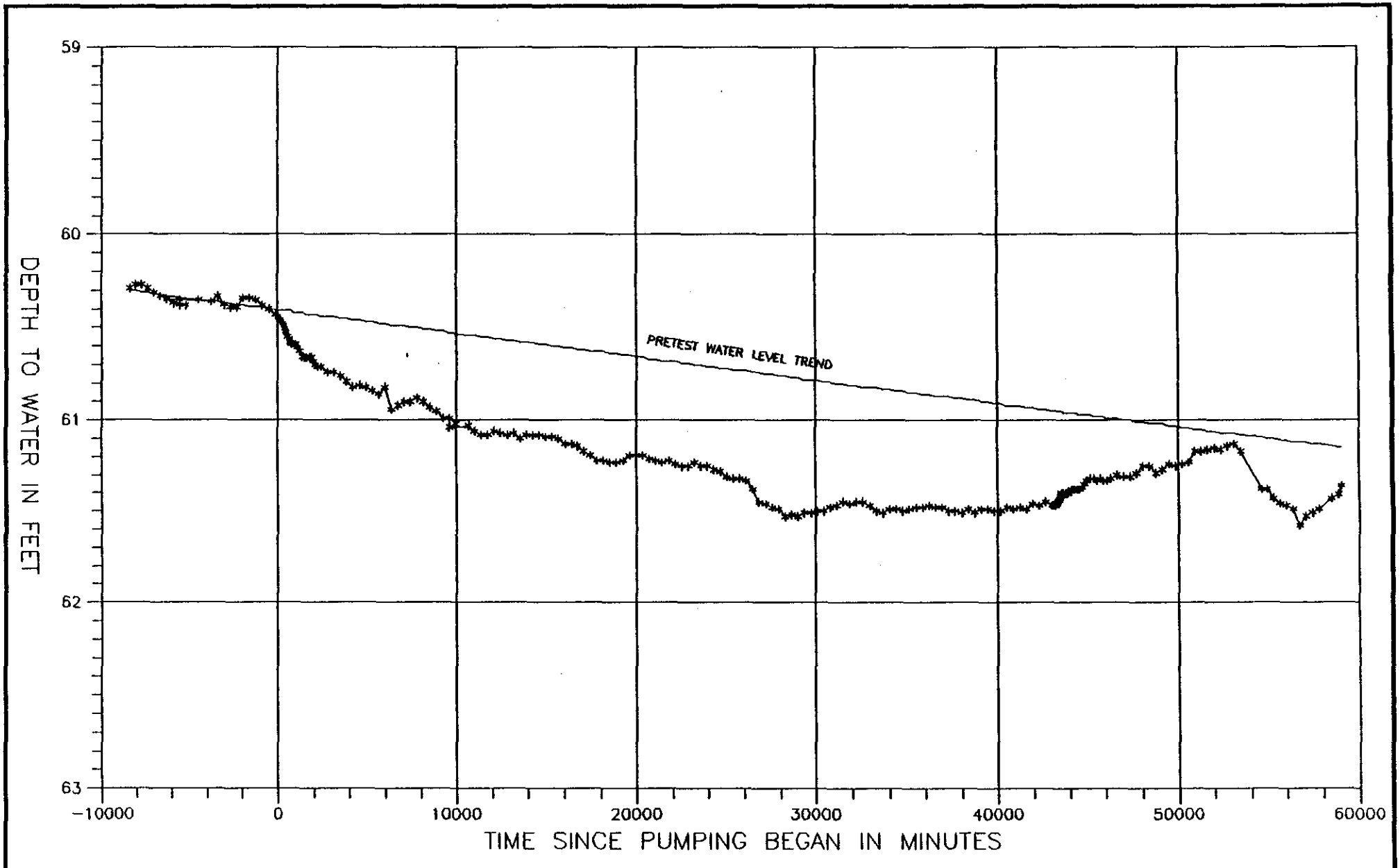


FIGURE 11
HORMACHEA WELL HYDROGRAPH
FLOATING FEATHER HILLS INC.

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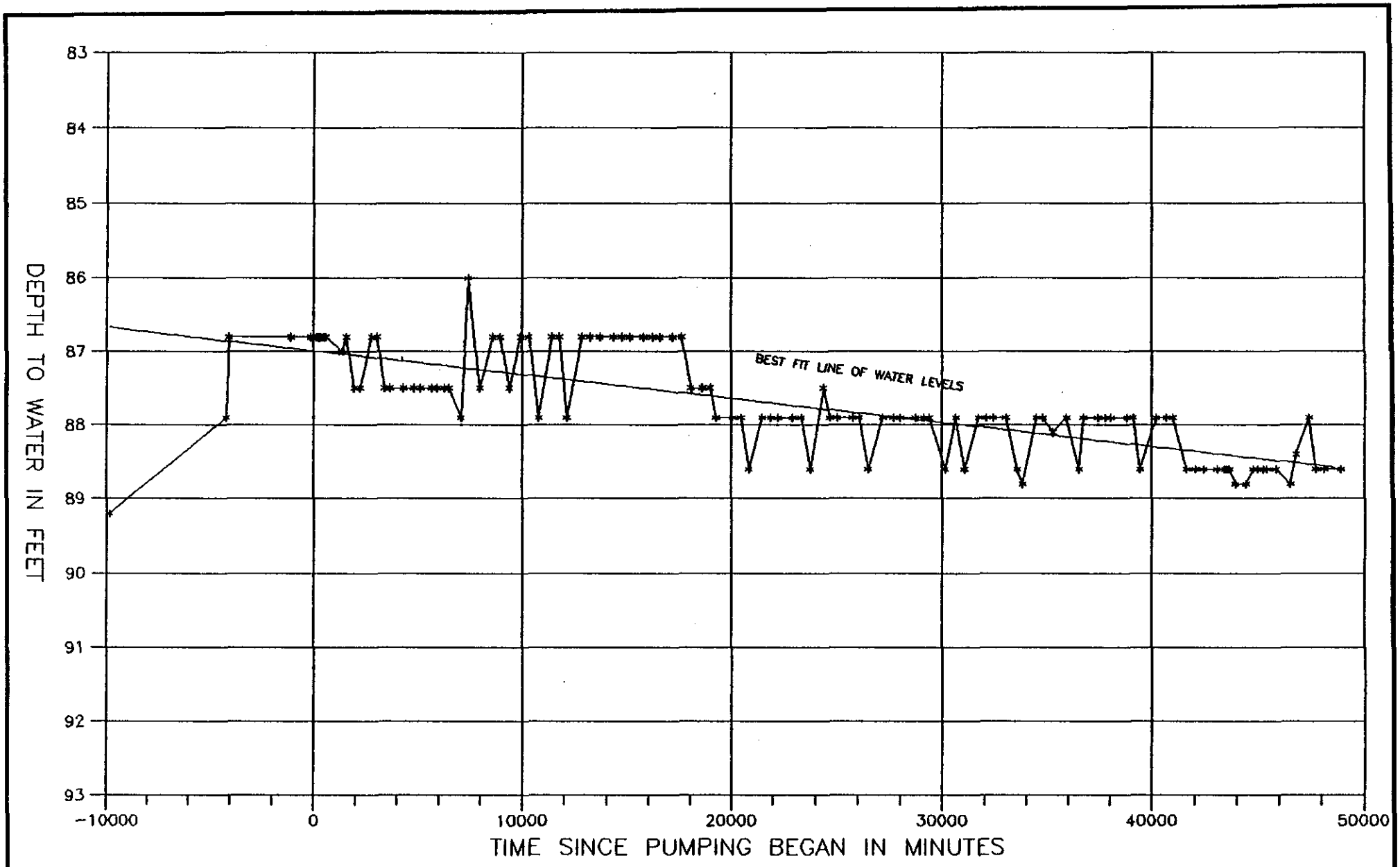


FIGURE 12
FLOATING FEATHER IRRIGATION DISTRICT WELL HYDROGRAPH
FLOATING FEATHER HILLS, INC.

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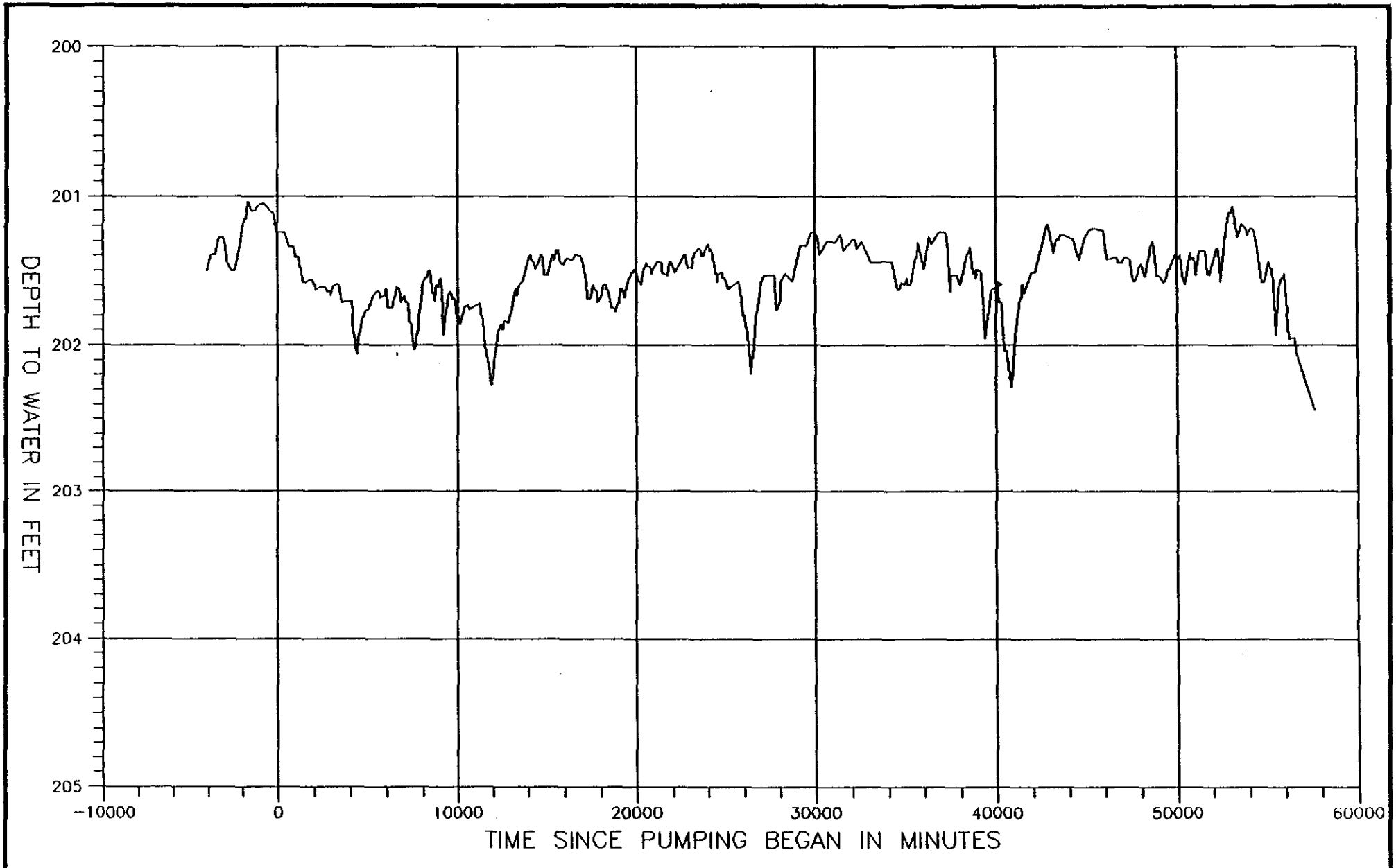


FIGURE 13
DAY WELL HYDROGRAPH
FLOATING FEATHER HILLS, INC.

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PUMPING WELL PERFORMANCE SUMMARY

The test began on March 26, 1991, at 10:56 a.m. Prior to starting the test, two short pumping periods of less than 10 minutes each were conducted to evaluate the gate valve setting, flow meter operation, and discharge piping system. After full water level recovery in the production well, the test was initiated. As quickly as possible the discharge rate was adjusted to about 750 gallons per minute.

On April 1, 1991, during the scheduled water level measurement at about 22:15, the pump was found to be off. The pump was running when checked at 15:30. The pump was restarted without difficulty at 22:50. On April 1, 1991, a fire at the Amity Road substation triggered power surges and outages in the area. According to Idaho Power Company, this occurred at about 21:40 (9:40 p.m.) Consequently, the pump interruption is believed to have been a little over 1 hour. This was a relatively brief interruption that occurred about 9,000 minutes into the test and, consequently, did not cause any significant problems.

After the pump was restarted, pumping continued uninterrupted until it was turned off to begin the recovery portion of the test. The long-term average pumping rate for the test was 743 gpm. Figure 14 shows the pumping rate at periodic intervals and the cumulative average discharge rate for the test.

The recovery portion of the test began at 11:03 a.m. on April 25 and continued until May 6, 1991. At this point, water levels in some wells had not fully returned to pretest levels, while in other observation wells water levels were higher than pretest levels. The recovery portion of the test was terminated because it was becoming increasing difficult to maintain control over wells needed for irrigation and the observation that an increasing number of interferences from other wells were starting to show up in the Eagle Hills and Hormachea wells.

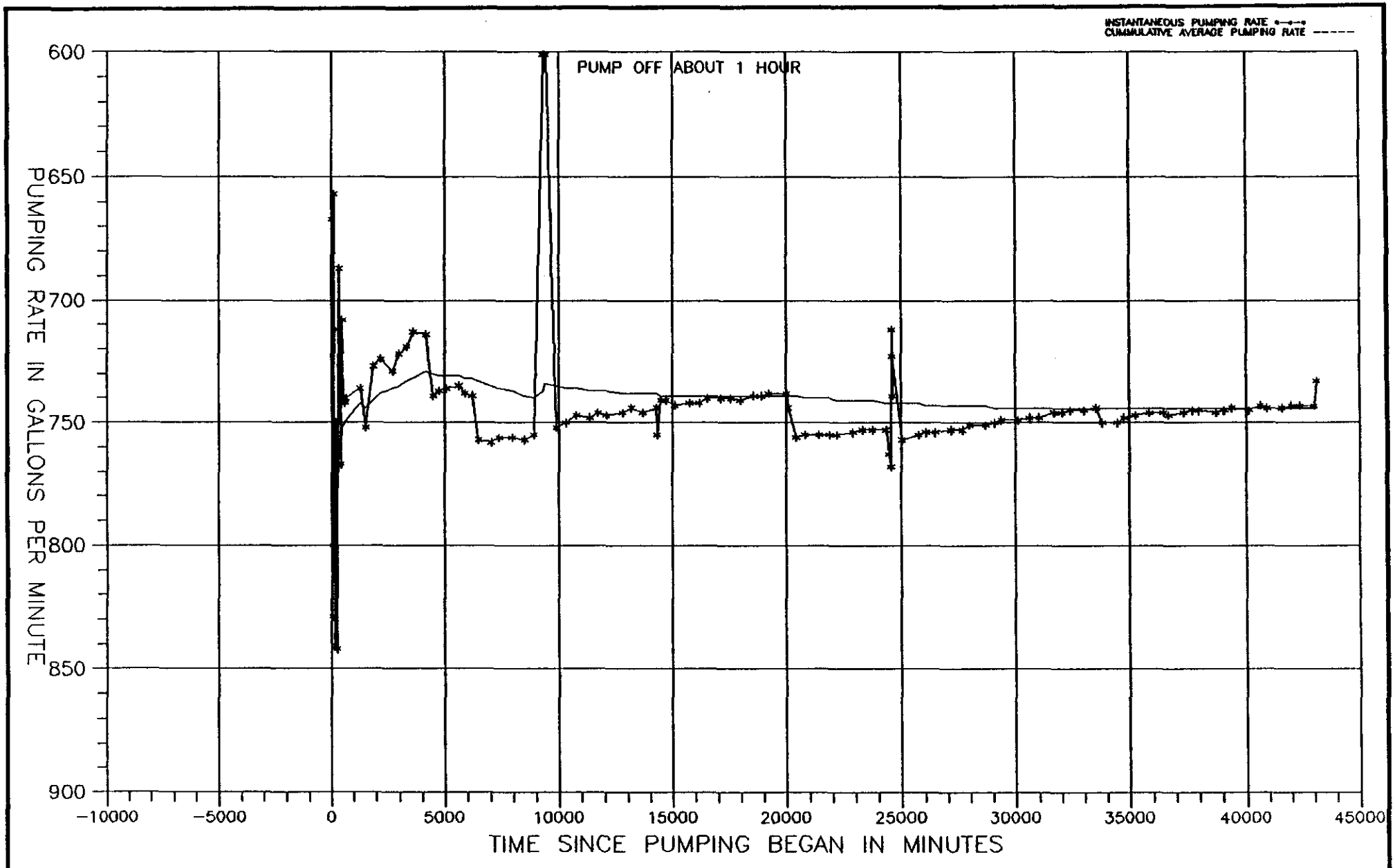


FIGURE 14
PRODUCTION WELL PUMPING RATE
FLOATING FEATHER HILLS, INC.

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AQUIFER ANALYSIS

GENERAL

The water level responses at the pumped well and each observation well were graphically analyzed by a series of analytical methods. Three types of graphical plots were prepared for each well; 1) drawdown versus time on an arithmetic-log scale (semi-log); 2) drawdown versus time on a log-log scale; and 3) residual drawdown versus the recovery time ratio of t/t' on an arithmetic-log scale (semi-log). These curves are presented as Figures 15 through 29. Analytical methods used to evaluate the aquifer test data were: Theis non-equilibrium, Chow straight line, Jacobs straight line, and Boulton (Prickett) delayed yield. As discussed below, not all methods could be applied to all curves because of mathematical limitations of the method, or the data curves did not match the method type curves. Calculations of aquifer properties based on these curves are provided in Appendix E.

Pretest water level trends were used to adjust drawdowns based on the projected water level for that same point in time. The adjusted drawdowns are shown on the log-log and semi-log drawdown plots. The adjusted drawdown plots did not materially differ from the unadjusted drawdown over most of the test. Late into the test, the adjusted drawdown plots began to deviate dramatically from the unadjusted drawdown. Transmissivities determined from the adjusted drawdown curves were generally not used in the aquifer analysis because, usually, they were much higher and because of the lack of confidence in extrapolating short pretest trends to the late portions of the test.

Table 1 presents the values for aquifer transmissivity and the storage coefficient determined for each well by the different analytical methods. A log mean value for each well was calculated based on selected results. Values used in the log means were selected on the basis of applicability to the hydrogeologic environment, mathematical validity, and general consistency when on the overall test. The very high and low values were not used.

In the discussions that follow, the water level response and aquifer characteristics determined at each well are discussed.

TABLE 1
SUMMARY OF AQUIFER CHARACTERISTICS
FROM PUMPING TEST ANALYSIS
FLOATING FEATHER HILLS, INC.

WELL	RADIUS (FT)	DIRECTION	METHOD OF ANALYSIS													SUMMARY BY WELL		
			CHOW SEMI-LOG TIME DRAWDOWN			THEIS NON-EQUILIBRIUM LOG-LOG TIME DRAWDOWN			BOULTON (PRICKETT) DELAYED YIELD			JACOBS SEMI-LOG TIME DRAWDOWN			JACOBS SEMI-LOG RECOVERY					
			TRANS. (GPD/FT)	STORAGE COEF	NOTES	TRANS. (GPD/FT)	STO.COEF.	NOTES	TRANS. (GPD/FT)	STORAGE COEF.	NOTES	TRANS. (GPD/FT)	STORAGE COEF.	NOTES	TRANS. (GPD/FT)	STORAGE COEF.	NOTES			
PRODUCTION	1	N/A	NO FIT	N/A		NO FIT	N/A		NO FIT	N/A		11,966	N/A	(E),1	30,793	N/A	(E),1	LOG MEAN T =	166,264	GPD/FT
												143,749	N/A	(L)	192,306	N/A	(L)			
HOLGATE	900	E	422,925	7.70E-05	(E),2	NO FIT	N/A		106,427	6.00E-04	(E),3	86,793	1.80E-02	(L)	100,591		(L)	LOG MEAN T =	98,991	GPD/FT
			122,738	6.70E-03	(M)				106,427	1.22E-02	(L)							LOG MEAN S =	1.29E-02	
			83,350	1.90E-02	(L)															
EAGLE HILLS G.C.	2,500	S	681,132	5.20E-03	(E),4	654,935	5.50E-03	(E),4	266,067	4.30E-03	(E),3	u>.01, invalid solution			NO FIT	N/A		LOG MEAN T =	278,542	GPD/FT
			219,720	1.70E-02	(L)	266,067	1.57E-02	(L)	266,067	1.58E-02	(L)	u>.01, invalid solution						LOG MEAN S =	1.24E-02	
						387,006	5.60E-03	(ALL)												
HORMACHEA	3,700	W	315,339	1.70E-02	(E)	532,135	3.50E-03	(E),4	NO FIT	N/A		u>.01, invalid solution			u>.01, invalid solution			LOG MEAN T =	316,905	GPD/FT
			287,490	6.20E-03	(L)	354,755	5.80E-03	(L)				u>.01, invalid solution			u>.01, invalid solution			LOG MEAN S =	3.94E-03	
						654,933	2.70E-03	(ADJ),4												
CARSON	1,300	SE	553,418	2.07E-02	(E),4	NO FIT	N/A		85,141	4.85E-02	(E),3	u>.01, invalid solution			u>.01, invalid solution			LOG MEAN T =	110,596	GPD/FT
			85,141	4.49E-02	(L)				85,141	7.50E-03	(L)	u>.01, invalid solution			u>.01, invalid solution			LOG MEAN S =	2.55E-02	
			186,610	4.92E-02	(ADJ)															
																MEAN ALL WELLS		LOG MEAN T =	174,477	GPD/FT
																		LOG MEAN S =	1.37E-02	
																MEAN VICINITY PRODUCTION WELL		T =	122,100	GPD/FT
																		S =	1.90E-02	

NOTES:

1. EARLY TIME DATA AFFECTED BY CASING STORAGE AND GRAVITY DRAINAGE.
2. EARLY TIME DATA ASSUMED AFFECTED BY GRAVITY DRAINAGE, HIGH T AND LOW S NOT USED IN LOG MEANS.
3. EARLY TIME T AND S NOT USED IN LOG MEANS. S USEFUL FOR EARLY OR SHORT-TERM WELL RESPONSE ANALYSIS.
4. HIGH EARLY TIME T FROM GRAVITY DRAINAGE EFFECTS, T AND S NOT USED IN LOG MEANS ALTHOUGH S IS REASONABLE.

(E) = EARLY TIME
(M) = MIDDLE TIME
(L) = LATE TIME
(ALL) = ALL DATA
(ADJ) = ADJUSTED DRAWDOWN

PRODUCTION WELL

Semi-log Drawdown (Figure 15 and Appendix E-1)

This plot indicates two definite straight line segments. The first segment from time (t) = 0.3 minutes to t = 30 minutes gives a transmissivity (T) of 12,000 gallons per day per foot (gpd/ft). Additional calculations reveal, however, that because of the size of the well and gravel pack envelope, early time data is strongly influenced by casing storage and is not a valid T. The second straight line segment indicates a T of 145,000 gpd/ft. The second T is more indicative of the aquifer.

Log-Log Drawdown (Figure 16)

The log-log plot for the production well did not produce a meaningful curve and was not used in the analysis.

Semi-Log Recovery (Figure 17 and Appendix E-1)

This plot reveals two straight line segments. Early recovery data, t/t' = 4,000 to 175 indicates a T of 31,000 gpd/ft. Late time recovery data, t/t' = 175 to 3.5 indicates a T of 192,000 gpd/ft. Because of casing storage effects and water in the pump column reentering the well, early time recovery is not viewed as reliable as late time recovery.

Production Well Summary

The log mean T for the late time drawdown and late time recovery at the production well is 166,000 gpd/ft. It is not possible to get a meaningful estimate of the storage coefficient (S) from the production well.

HOLGATE WELL

Semi-log Drawdown (Figure 18 and Appendix E-2)

This curve reveals three straight line segments representing early, middle, and late times (A', A" and A"' respectively, Appendix E). The early time segment (A')

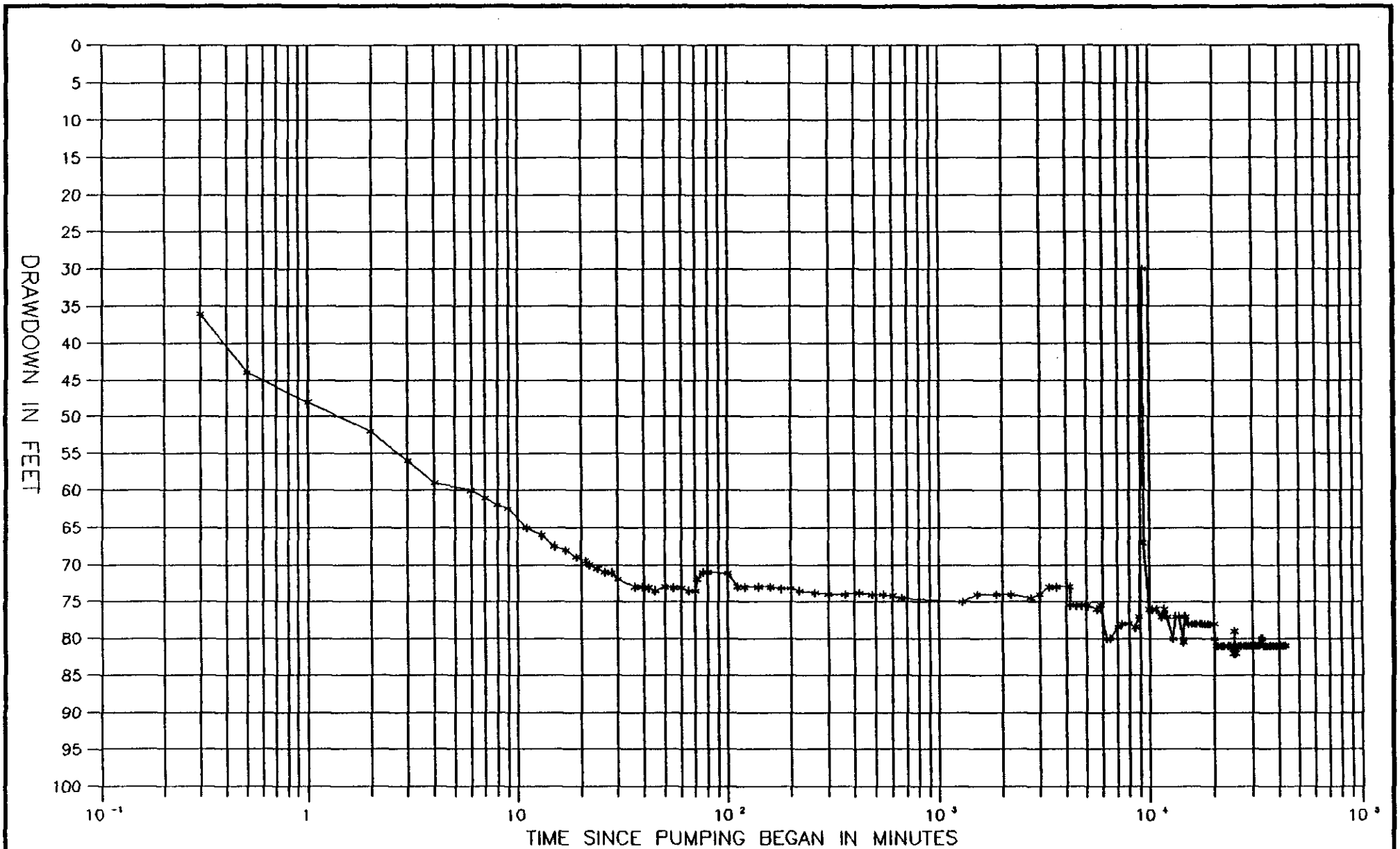


FIGURE 15
PRODUCTION WELL
SEMI LOG TIME DRAWDOWN
FLOATING FEATHER HILLS, INC.

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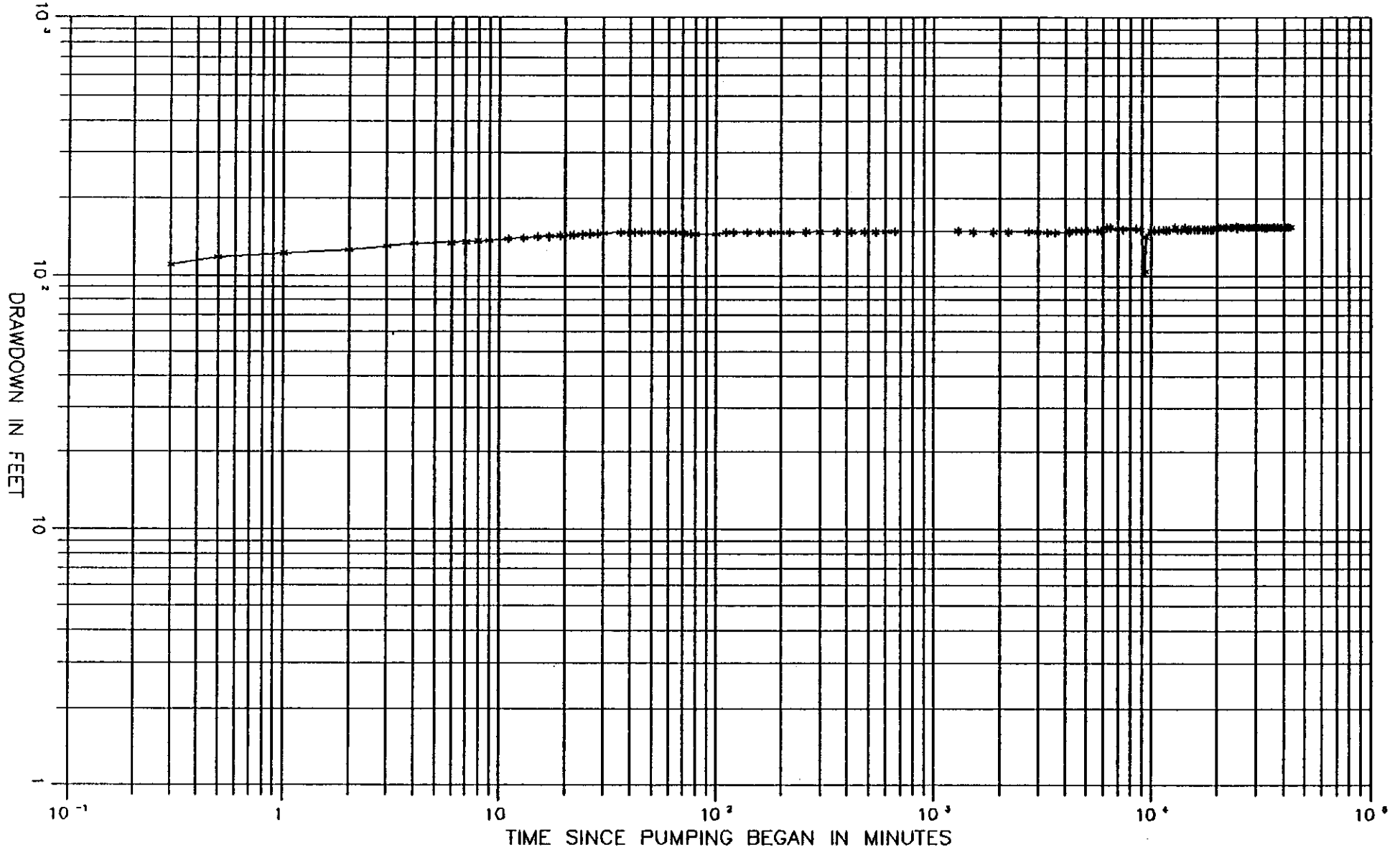


FIGURE 16
PRODUCTION WELL
LOG-LOG TIME DRAWDOWN
FLOATING FEATHER HILLS, INC.

BOI31684 A1

CRMHILL

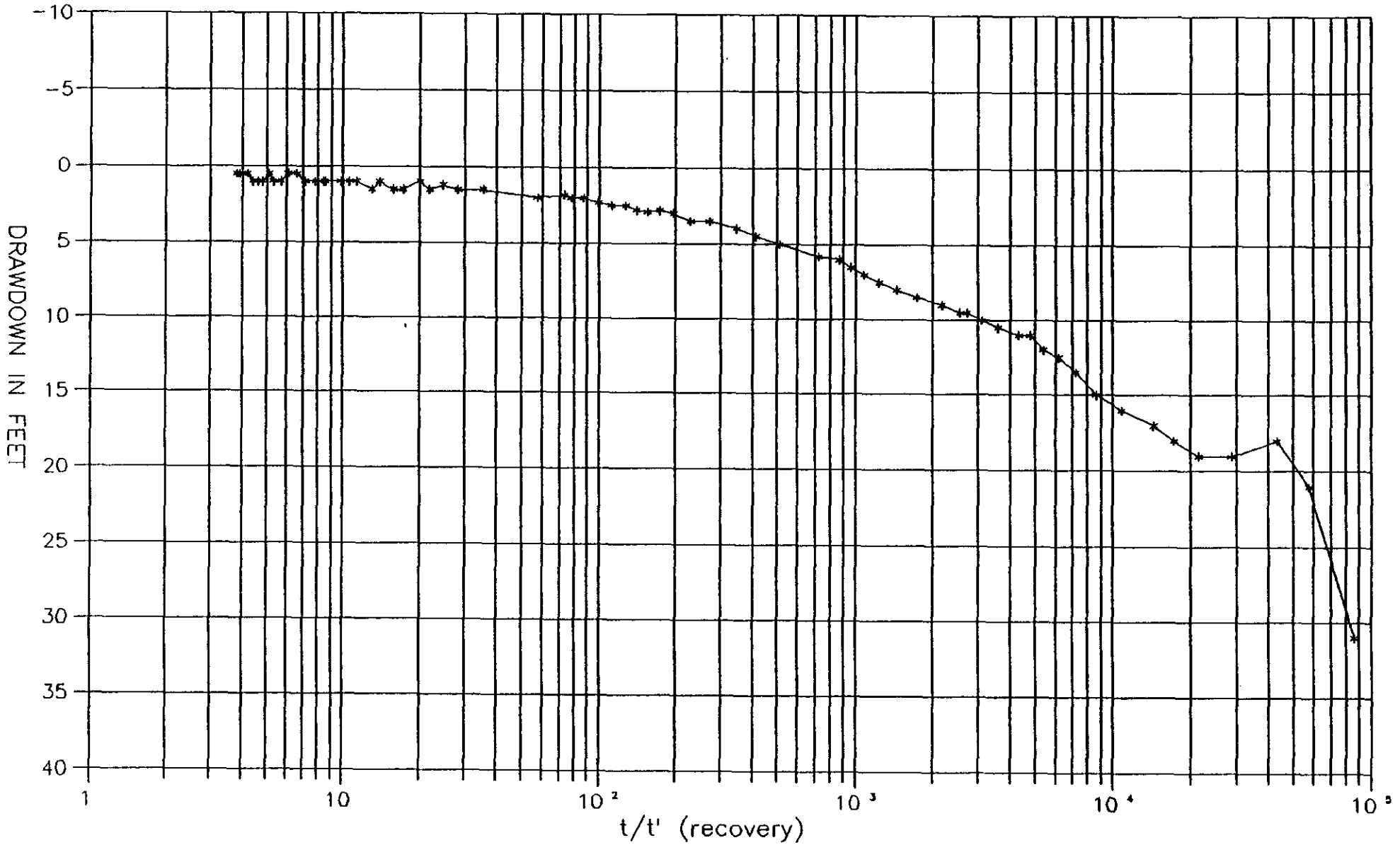


FIGURE 17
PRODUCTION WELL
SEMI LOG TIME DRAWDOWN
FLOATING FEATHER HILLS, INC.

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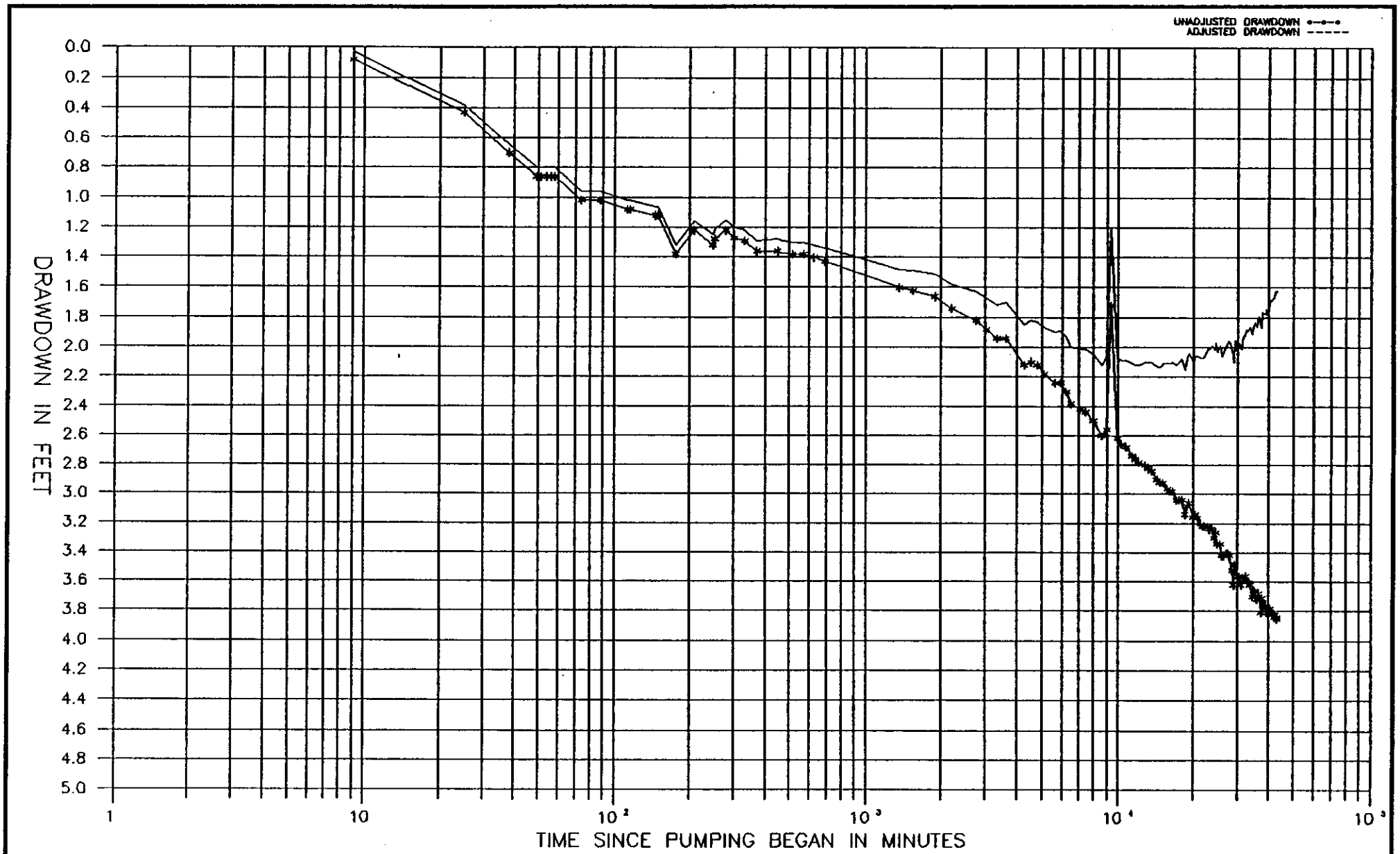


FIGURE 18
HOLGATE WELL
SEMI LOG TIME DRAWDOWN
FLOATING FEATHER HILLS, INC.

BOI31684 A1

produces T of over 400,000 gpd/ft. The middle and late time Ts are similar at 123,000 and 84,000 gpd/ft. The early time T is affected by gravity drainage and was not used.

The break in slope between middle and late time straight line segments at about t = 20,000 minutes may indicate a partial barrier or minor aquifer inhomogeneity was encountered by the propagating cone of depression.

Log-Log Drawdown (Figure 19, Appendix E-2)

This curve is a classic delayed yield curve. The single T from this analytical method is 106,000 gpd/ft. Further analysis indicates that the effect of gravity drainage becomes negligible after almost 10,000 minutes, further supporting the inappropriateness of the high early time T produced from the straight line method described above.

Semi-Log Recovery (Figure 20 and Appendix E-2)

This plot produced an S-shaped curve. Early and middle time recovery values were not used because of the unknown effects the possible barrier may have had on early data and the impact refilling dewatered strata possibly had on middle time data. The late time T of 100,000 gpd/ft is consistent with T derived from the delayed yield analysis and is considered representative.

Holgate Summary

The log mean T using those values considered appropriate is 100,000 gpd/ft. The log mean S for valid solutions is 0.0129, indicative of a poorly confined or stratified water table aquifer.

CARSON WELL

Semi-Log Drawdown (Figure 21 and Appendix E-3)

This plot produced two straight line segments from the drawdown data, early and late time, (A' and A'" respectively, Appendix E-3).

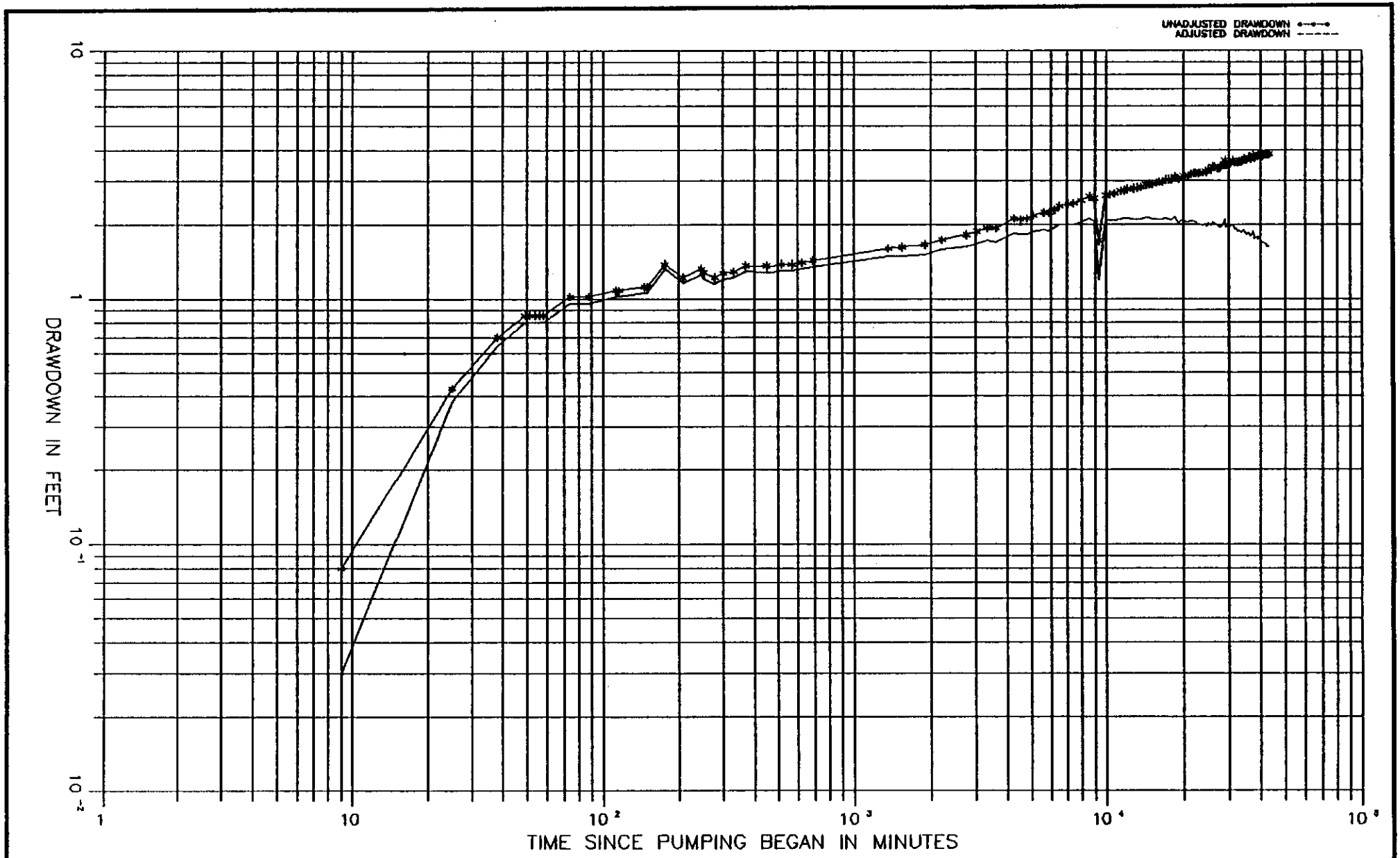


FIGURE 19
HOLGATE WELL
LOG-LOG TIME DRAWDOWN
FLOATING FEATHER HILLS, INC.

CH2M HILL

BOI31684 A1

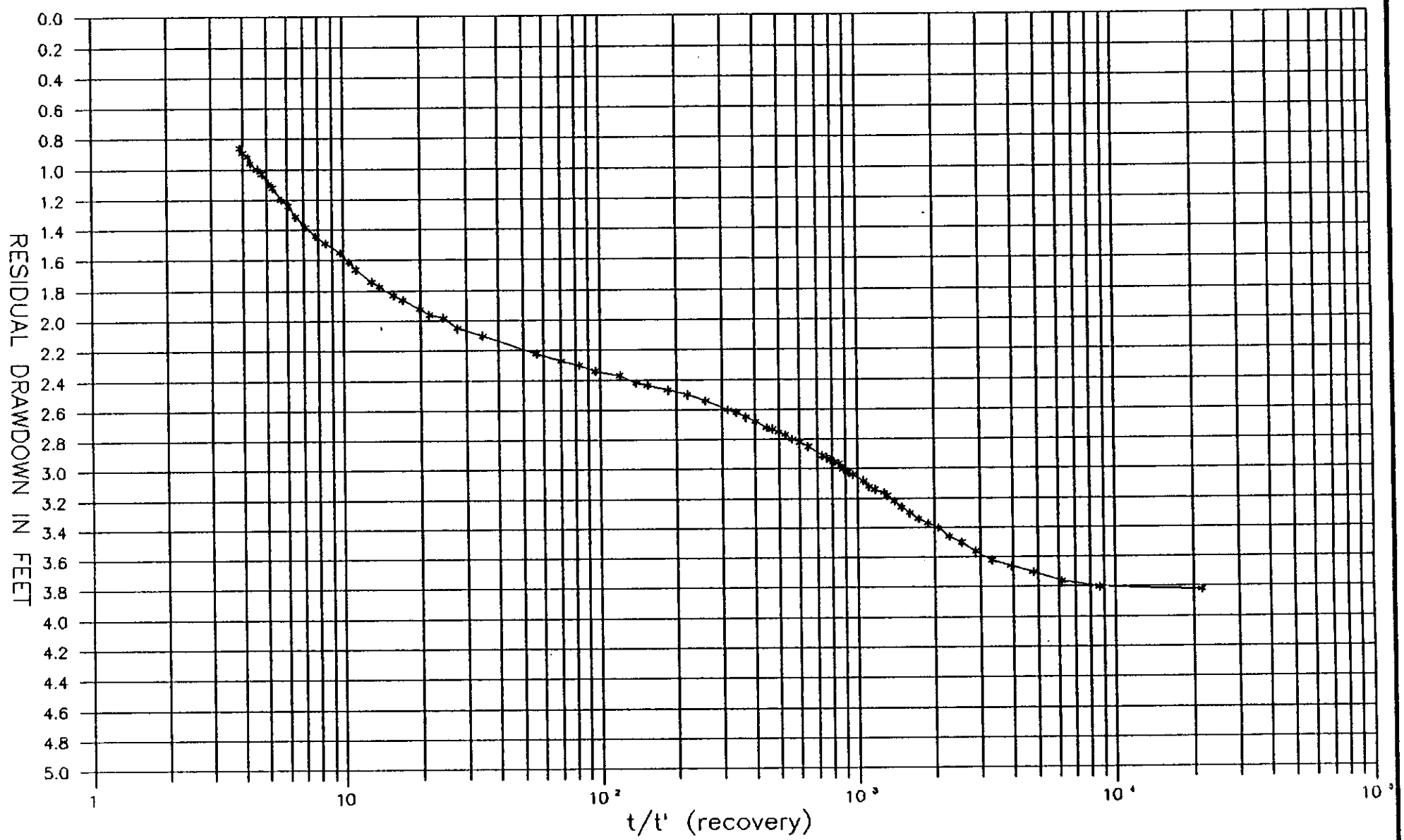


FIGURE 20
HOLGATE WELL
SEMI LOG TIME DRAWDOWN
FLOATING FEATHER HILLS, INC.

CH2MHILL

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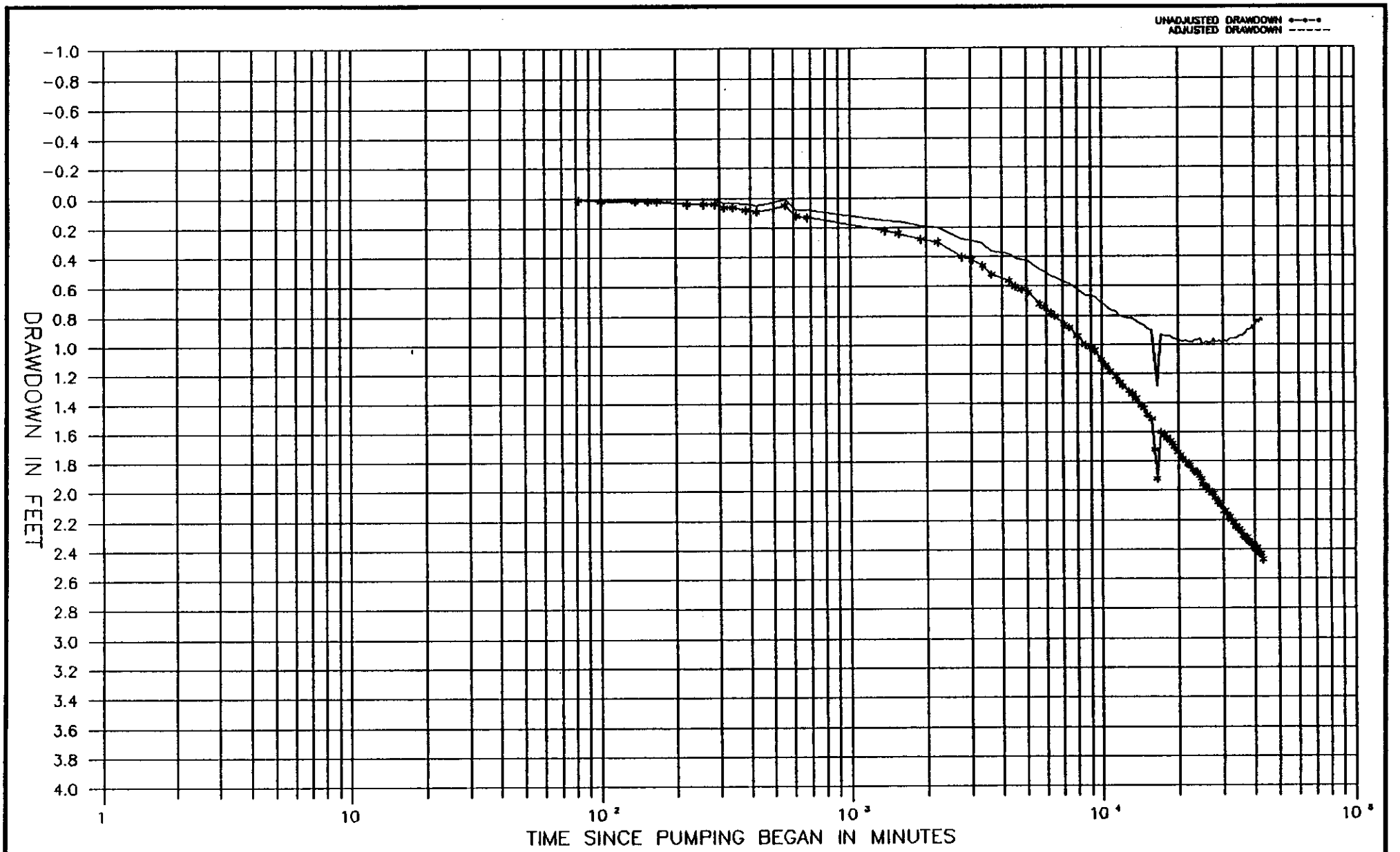


FIGURE 21
CARSON WELL
SEMI LOG TIME DRAWDOWN
FLOATING FEATHER HILLS, INC.

BOI31684 A1

The early time T of over 500,000 gpd/ft is not representative because of gravity drainage effects. The late time T of 85,000 gpd/ft is more indicative of the aquifer T from this analysis.

The adjusted water level was also used to calculate a T because it departed significantly from the unadjusted curve. The T determined from this curve, 187,000 gpd/ft (A" Appendix E-3), is considerably higher. The actual T probably lies between the two values.

Log-Log Drawdown (Figure 22, Appendix E-3)

This plot was analyzed using the delayed yield approach. The single T determined from this approach was 85,000 gpd/ft. Gravity drainage effects become negligible at about 14,000 minutes. This further supports the inappropriateness of the high early time T from the semi-log method discussed above.

Semi-Log Recovery (Figure 23 and Appendix E-3)

Analysis of the recovery data using semi-log methods for the Carson well was not included because the time and distance factors involved exceed the mathematical limitations for the validity of the method.

Carson Summary

The delayed yield method and semi-log drawdown methods agree very well. Adjusted drawdown may also be a factor. The log mean T for all values used is 110,000 gpd/ft and the log mean S is 0.0255.

EAGLE HILLS GOLF COURSE WELL

Semi-Log Drawdown (Figure 24 and Appendix E-4)

This plot contains two very distinct straight line segments representing early and late time (A' and A" respectively, Appendix E-4). Early time data, t = 0 to about 5,000 minutes produces a T of 680,000 gpd/ft. Late time data indicates a T of

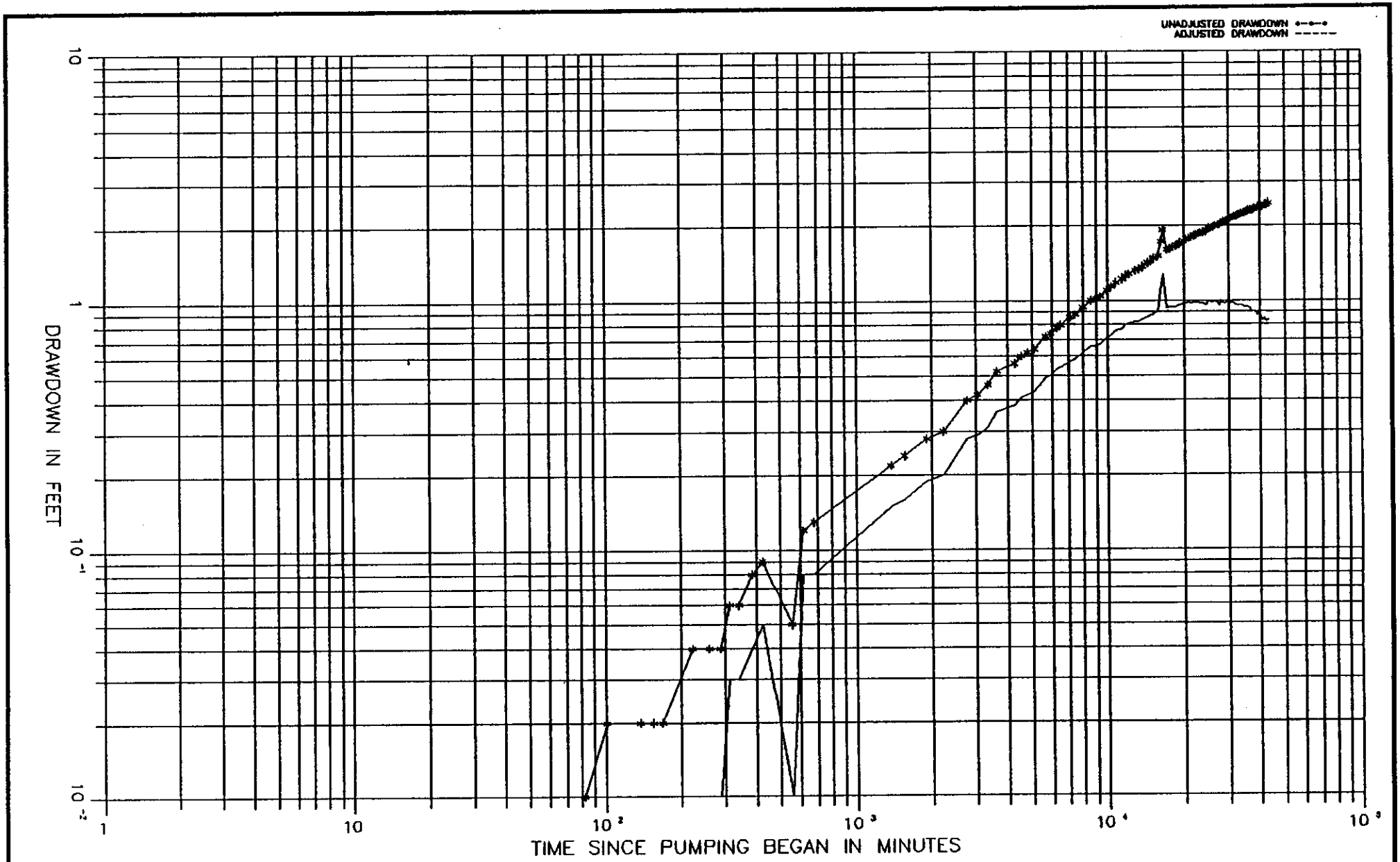


FIGURE 22
CARSON WELL
SEMI LOG TIME DRAWDOWN
FLOATING FEATHER HILLS, INC.

CH2M HILL

BOI31684 A1

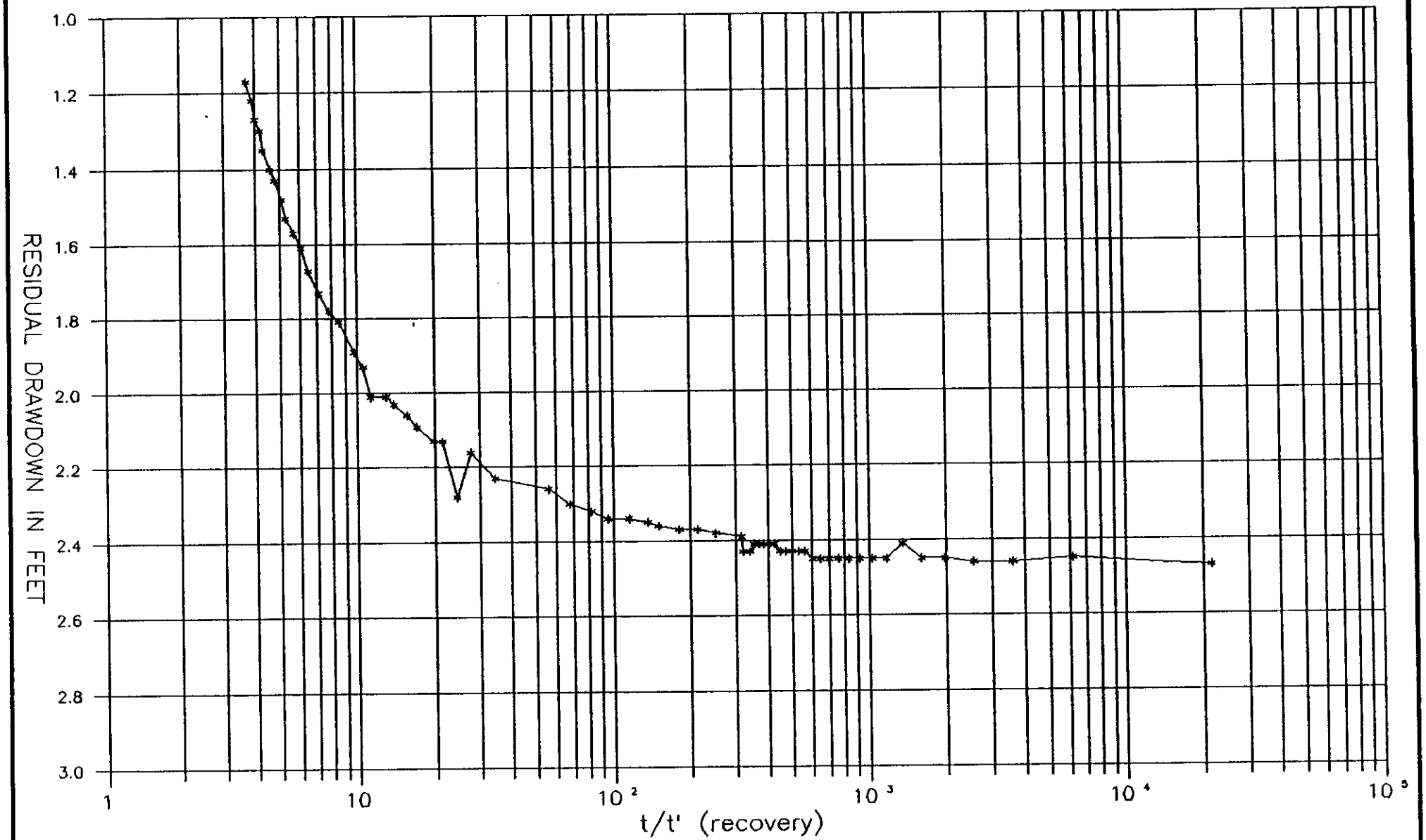


FIGURE 23
CARSON WELL
SEMI LOG TIME DRAWDOWN
FLOATING FEATHER HILLS, INC.

CH2M HILL

BOI31684 A1

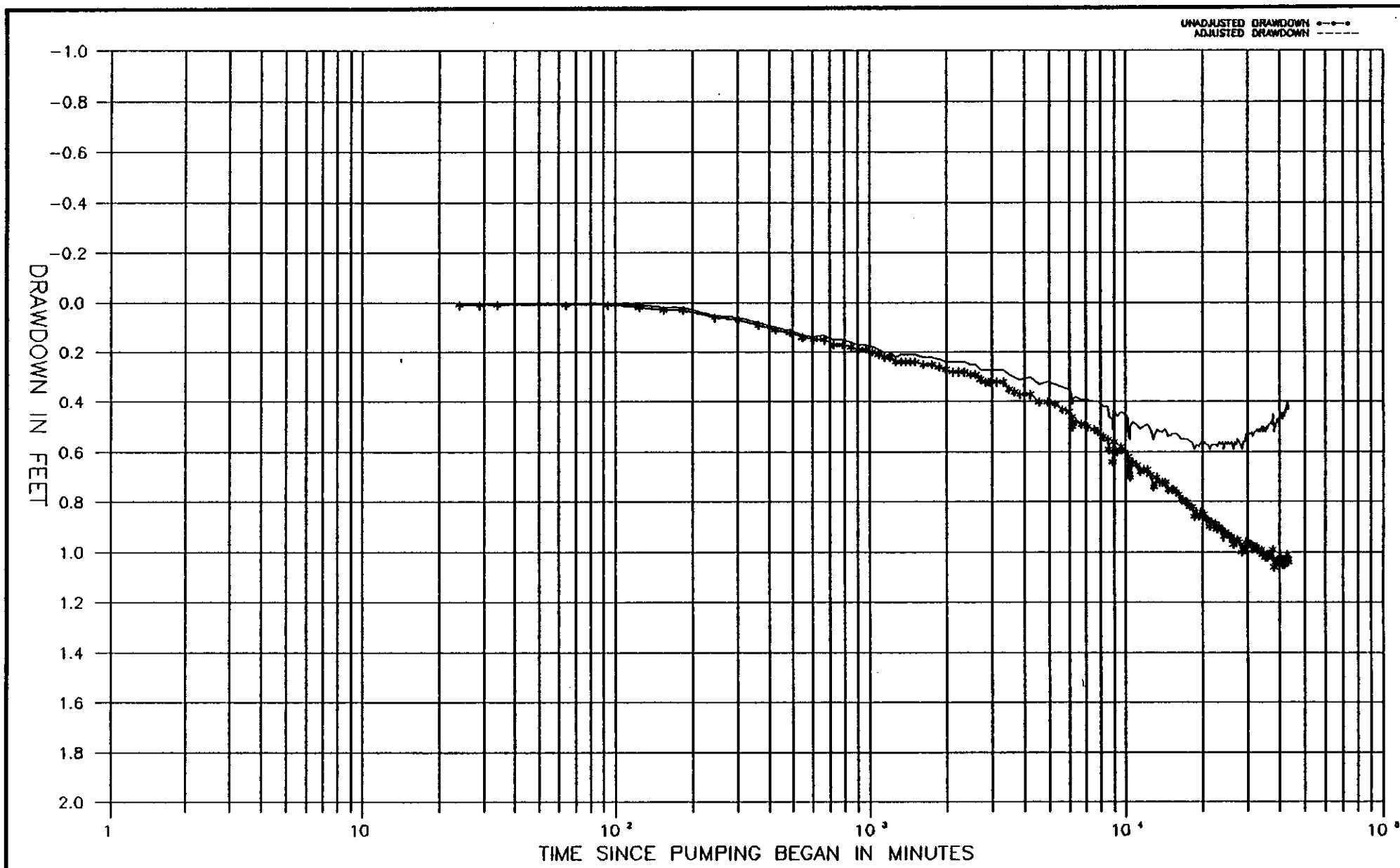


FIGURE 24
EAGLE HILLS GOLF COURSE
SEMI LOG TIME DRAWDOWN
FLOATING FEATHER HILLS, INC.

CH2MHILL

BOI31684 A1

220,000 gpd/ft. The break between early and late time data may be related either to gravity drainage or the presence of an aquifer inhomogeneity. The late time T is considered representative of the aquifer especially when long pumping times are to be considered.

Log-Log Drawdown (Figure 25, Appendix E-4)

This curve was analyzed using both gravity drainage and nonequilibrium confined aquifer (Theis) methods. Good to fair type curve matches were possible with each method. The data plot has an obvious deflection off the classic nonequilibrium type curve, indicating gravity drainage ended or an inhomogeneity was encountered. Consequently, the Theis approach was applied to early and late time as well as the entire curve. The T derived from the early time Theis curve was in the 650,000 gpd/ft range and is discounted as nonrepresentative. All the other Ts (late time Theis and gravity drainage) were in the 266,00 to 380,000 gpd/ft. Gravity drainage effects become negligible after about 12.5 days (18,000 minutes), supporting the rejection of early time T values.

Semi-Log Recovery (Figure 26 and Appendix E-4)

Analysis of the recovery data using semi-log methods for the EHGC well was not included because the time and distance factors involved exceed the mathematical limitations for the validity of the method.

Eagle Hills Golf Course Summary

The transmissivity of the aquifer apparently increases to about 280,000 gpd/ft in the vicinity of the EHGC well, as indicated by the consistent values obtained by several analytical methods. The log mean S for all appropriate solutions is 0.0124.

HORMACHEA WELL

Semi-Log Drawdown (Figure 27 and Appendix E-5)

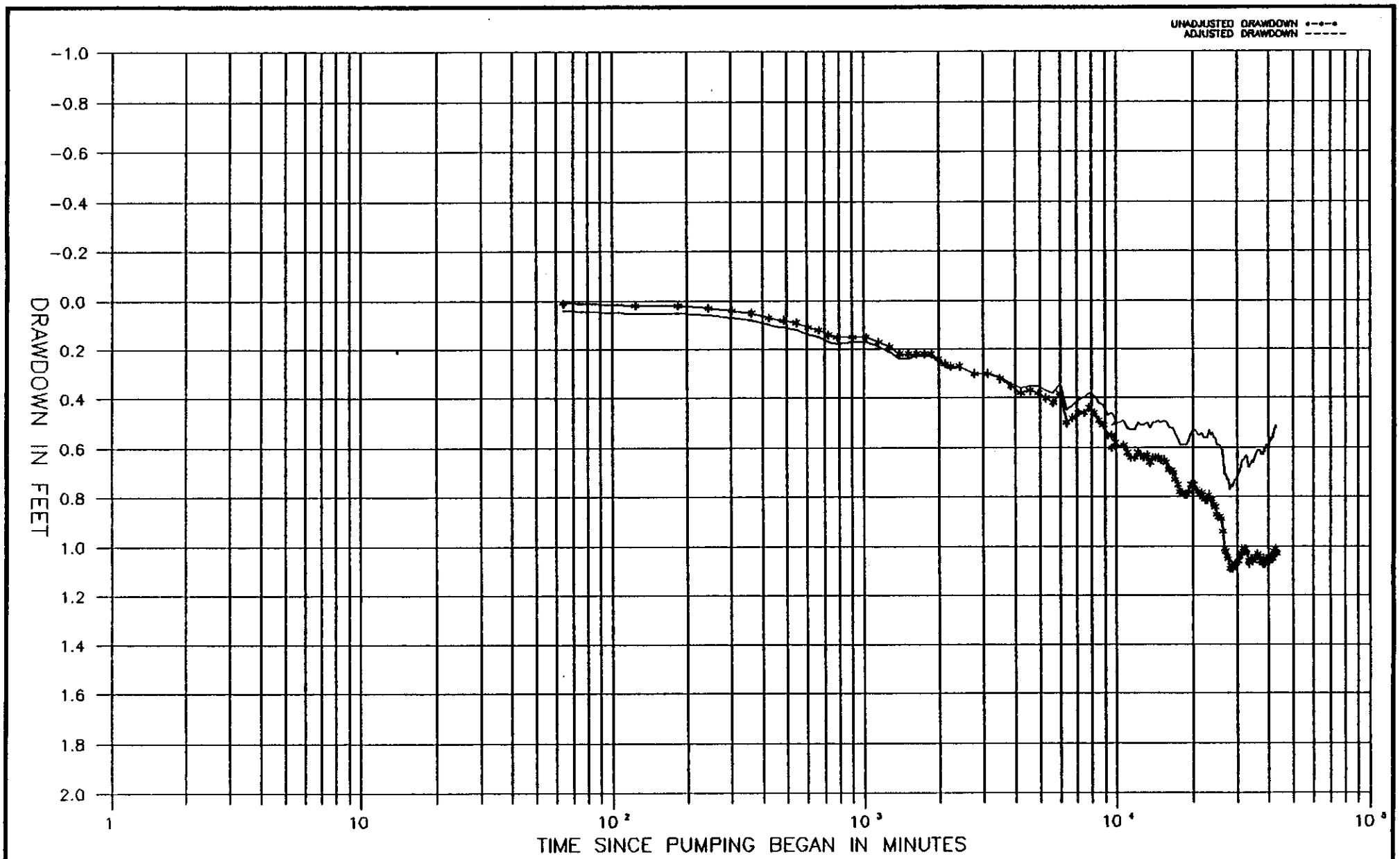


FIGURE 27
HORMACHEA WELL
SEMI LOG TIME DRAWDOWN
FLOATING FEATHER HILLS, INC.

BOI31684 A1

This plot contains two very distinct straight line segments representing early and late time (A' and A" respectively, Appendix E). Early time data, t = 0 to about 5,000 minutes produces a T of 315,000 gpd/ft. Late time data indicates a T of 287,000 gpd/ft. The break between early and late time data may be related either to the cessation of gravity drainage or the presence of a barrier or aquifer inhomogeneity. Although the two Ts are similar, the late time T is considered more representative of the aquifer, especially when long pumping times are to be considered.

Log-Log Drawdown (Figure 28, Appendix E-5)

This curve was analyzed using the non equilibrium confined aquifer (Theis) methods. No satisfactory match could be made with the delayed yield method. The data plot deflects off the classic nonequilibrium type curve, indicating some effect from gravity drainage or a barrier was encountered. Good to fair type curve matches were possible with the Theis method on both the early and late portions of the curve with considerable overlap. The T derived from the early time Theis curve was in the 530,000 gpd/ft range and it was discounted as nonrepresentative. The late time T of 355,000 gpd/ft was considered more representative and was used.

From t = 28,000 to 40,000 minutes, the drawdown suddenly increased and, consequently, did not fall on any type curve and could not be used. It is believed that interference from a second well impacted water levels during this period. From 40,000 minutes to the end of the test at 43,207 minutes the drawdown plot approached the late time Theis curve again and was used.

Semi-Log Recovery (Figure 29 and Appendix E-5)

Analysis of the recovery data using semi-log methods for the Hormachea well was not included because the time and distance factors involved exceed the mathematical limitations for the validity of the method.

Hormachea Summary

The transmissivity of the aquifer apparently increases to about 318,000 gpd/ft to the west, as indicated by the consistent values obtained by several analytical methods. The

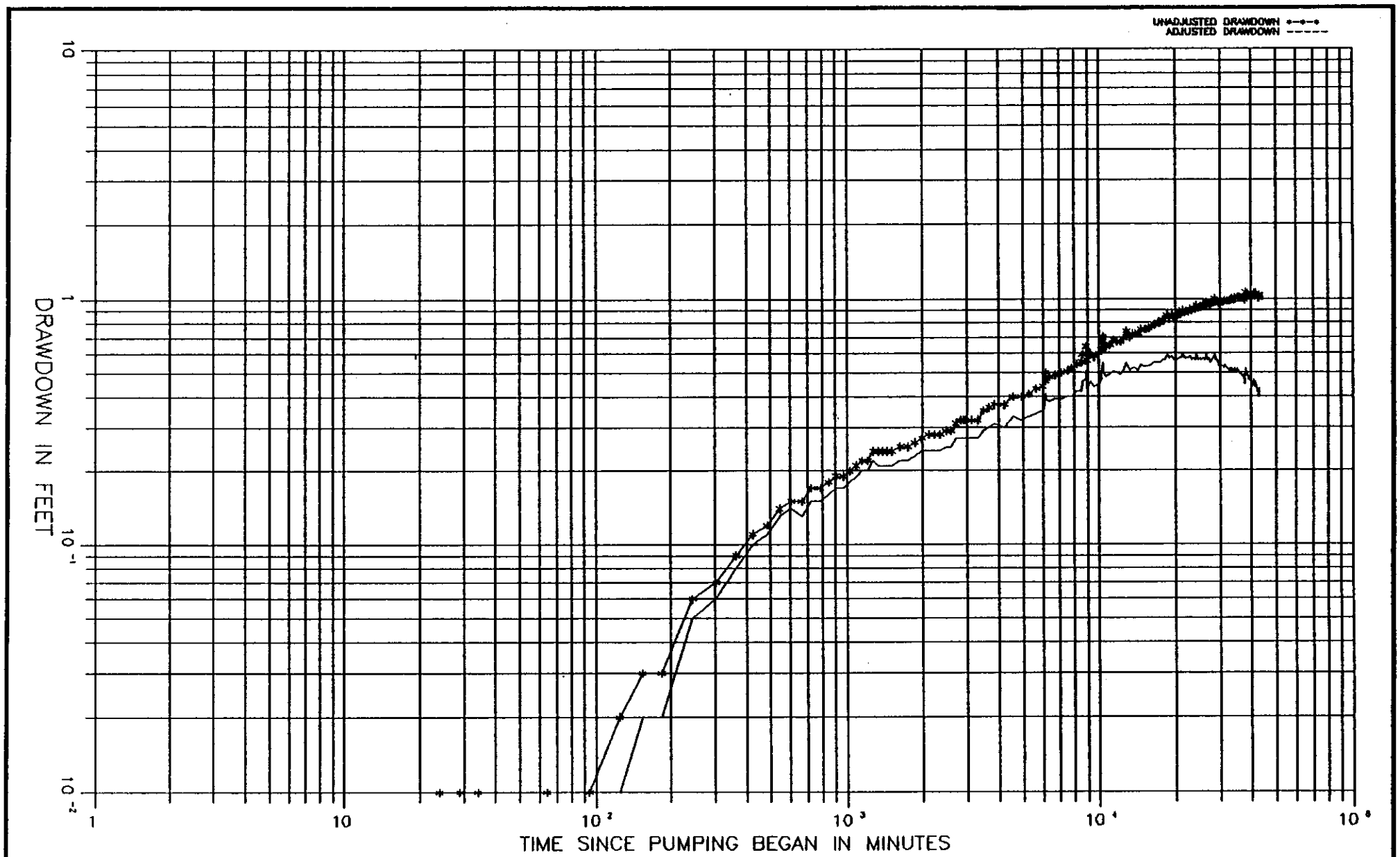


FIGURE 25
EAGLE HILLS GOLF COURSE
LOG-LOG TIME DRAWDOWN
FLOATING FEATHER HILLS, INC.

CH2MHILL

BOI31684 A1

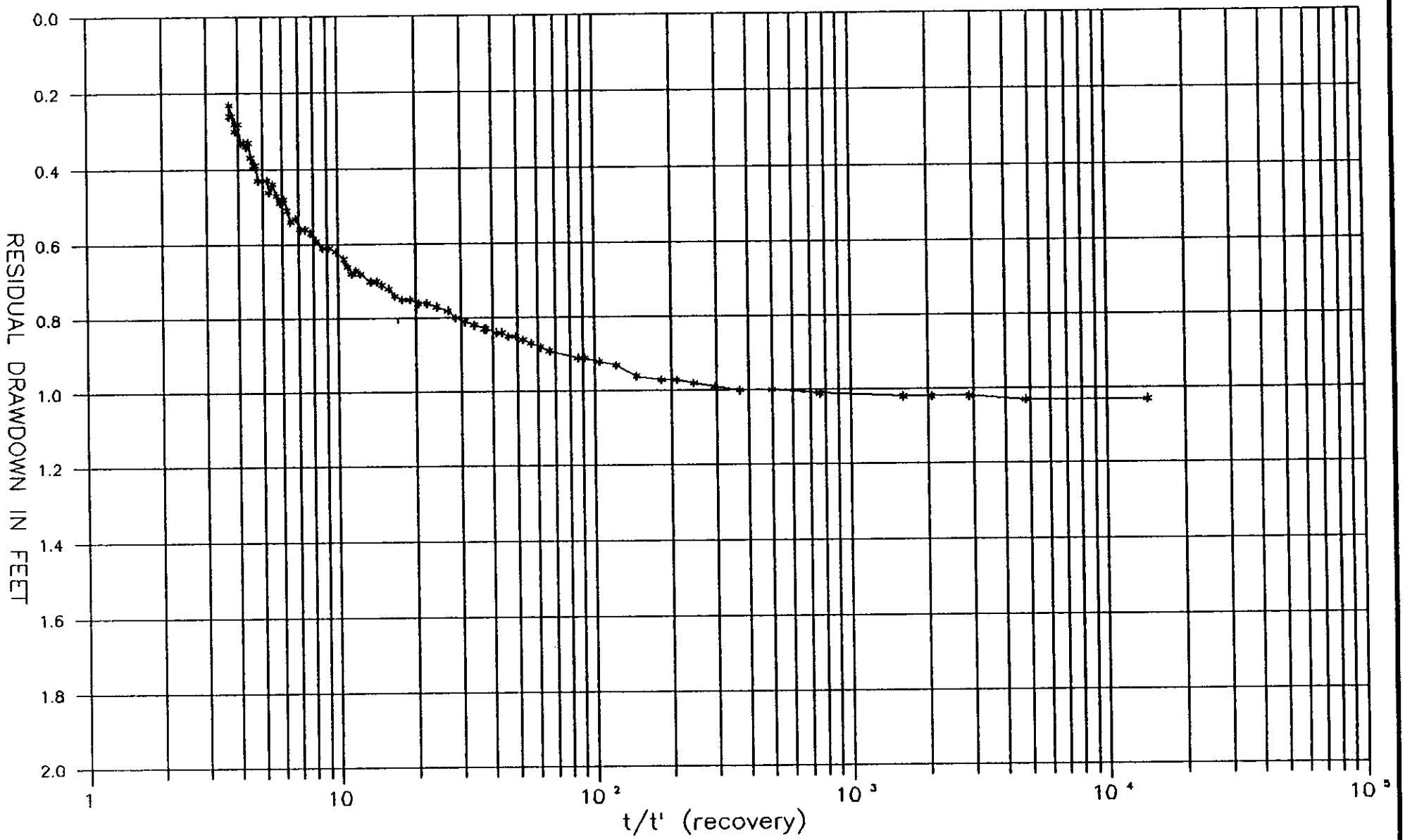


FIGURE 26
EAGLE HILLS GOLF COURSE
SEMI LOG TIME DRAWDOWN
FLOATING FEATHER HILLS, INC.

CH2MHILL

BOI31684 A1

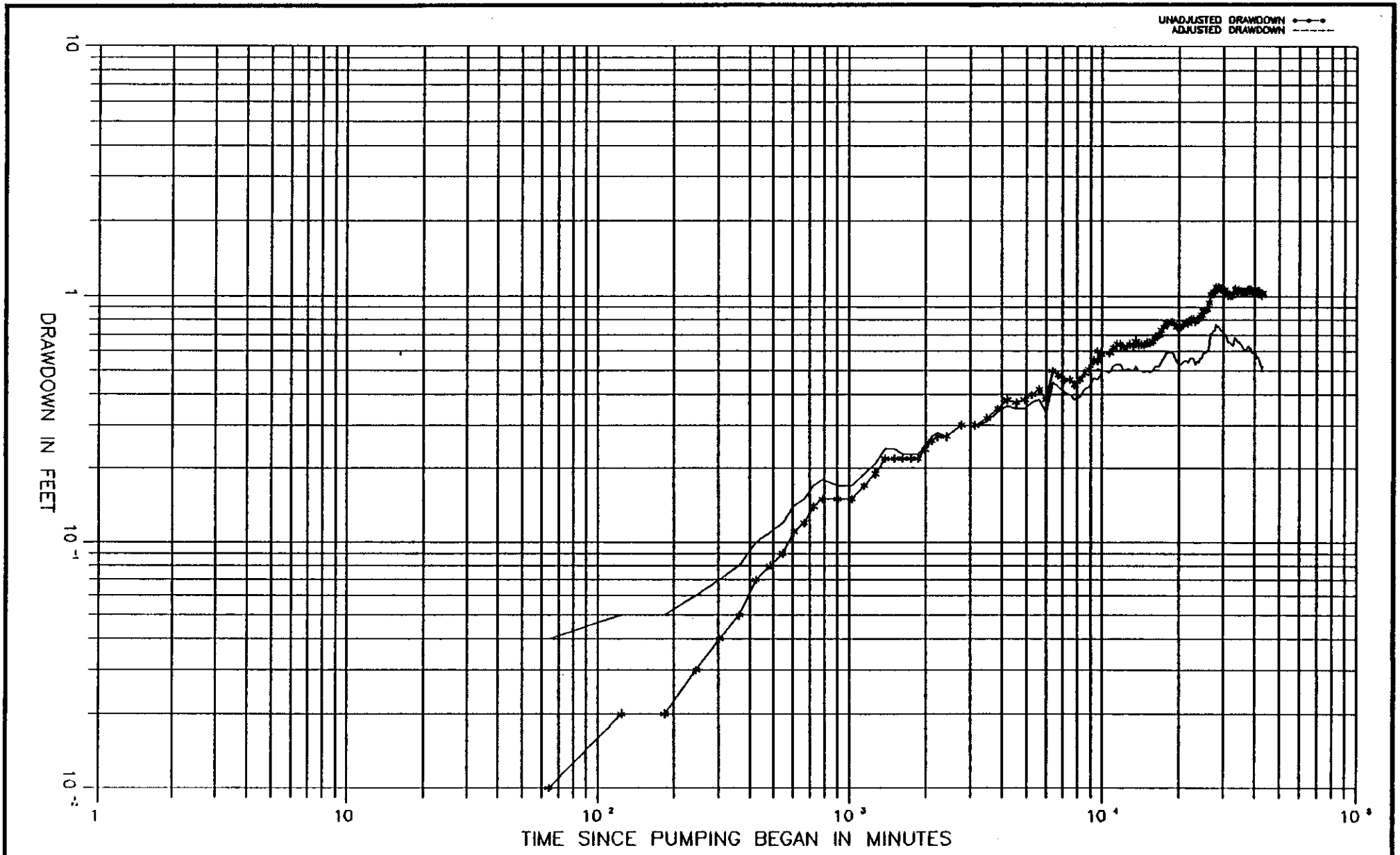


FIGURE 28
HORMACHEA WELL
LOG-LOG TIME DRAWDOWN
FLOATING FEATHER HILLS INC.

BOI31684 A1

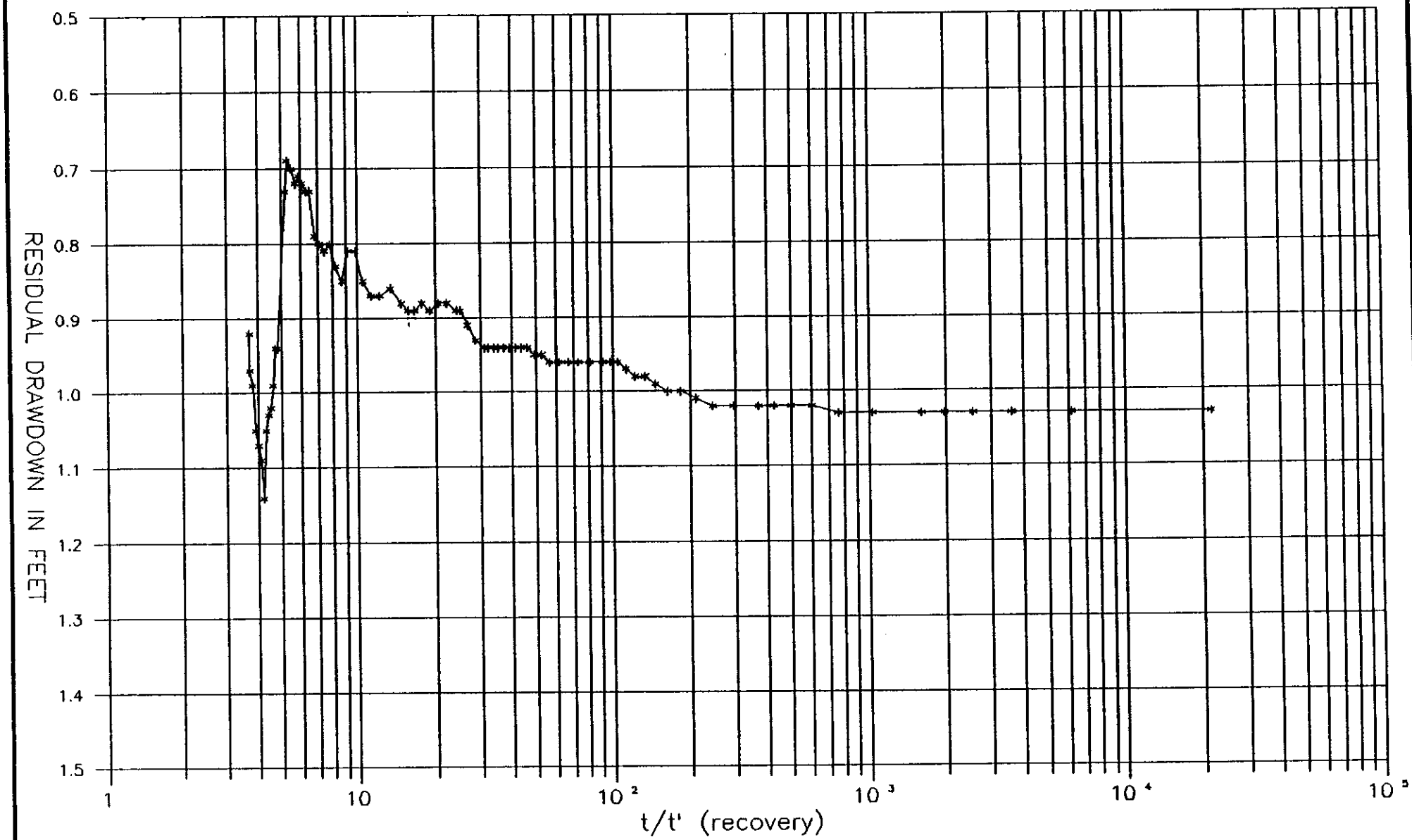


FIGURE 29
HORMACHEA WELL
SEMI LOG TIME DRAWDOWN
FLOATING FEATHER HILLS INC.

CH2MHILL

BOI31684 A1

log mean S for all appropriate solutions is 0.0057. Latest time data for the Hormachea well appear to have been impacted by other wells. The increase in T values to the west is consistent with a general increase in well yields in this direction, as seen in available well logs and production tests.

EICHHORN, DAY, FLOATING FEATHER IRRIGATION DISTRICT, AND USGS WELLS

No aquifer properties could be determined from the graphical plots of these wells. The USGS and Day wells were apparently unaffected by the pumping. The FFID well could not be measured with enough resolution to determine if the general decline in water levels shown in Figure 12 were related to pumping the production well. Water levels in the Eichhorn well were impacted by recharge of discharge water seeping out of the adjacent Farmers Union canal.

AQUIFER RECHARGE

POTENTIAL SOURCES

The potential sources of recharge to the aquifer in this area are:

Leakage from the Farmers Union Canal
Infiltration of irrigation water from laterals and flood irrigation practices
Infiltration from irrigation reservoirs and ponds
Direct precipitation
Seasonal losses from Dry Creek
Lateral inflow from the northern and eastern aquifer margins
Seepage from individual waste disposal systems

Insufficient data exist to quantify or even prioritize by magnitude the relative contributions each potential source contributes. Lateral inflow and irrigation seepage are probably the most significant sources.

RECHARGE DURING PUMPING TEST

The Eichhorn well hydrograph, Figure 7, clearly shows the effect of the leakage of pump discharge water in the Farmers Union Canal. Water level in the Eichhorn well began to fall within a few hours of pumping but began to rise after about 2,000 minutes (1.4 days) and continued to rise for an additional 20,000 minutes (14 days). During this period water levels rose about 2.5 feet. From 22,000 minutes to the end of pumping at 43,207 minutes, water levels fell to about prerecharge levels (slightly below pretest static water levels). After the pump was shut off, water levels recovered to above pre pumping water levels within 1 day and continued to rise, indicating continued recharge was reaching the aquifer.

It is important to note that since static groundwater levels are 60 to 70 feet below ground surface, drawdown from the pumping well did not induce leakage; nor did it increase the amount of leakage from the Farmers Union Canal or the various irrigation ponds in the area.

LONG-TERM RECHARGE

Although only sporadic historical water level measurements are available from IDWR, there is no evidence of long-term decline indicating overdraft of the aquifer in this area. Annual recharge is apparently sufficient to replenish the aquifer on a year-to-year basis.

AQUIFER SUMMARY

The aquifer is characterized as a complexly stratified water table aquifer consisting of highly permeable sand layers and lenses separated by discontinuous and leaky sandy clays. Aquifer response to pumping is expected to behave as a single thick water table aquifer with significant delayed yield due to gravity drainage early in the pumping period and close to the well. In distant observation wells the response during the relatively short 30-day pumping period was more indicative of a confined aquifer owing to the stratified nature. This was evident from the EHGC and Hormachea wells, which, although 2,500 and 3,700 feet from the production well, respectively, responded within 100 to 150 minutes of pumping.

The transmissivity of the aquifer appears to increase from about 100,000 gpd/ft in the vicinity of the production well to over 200,000 gpd/ft to the south and west. Storage values from all valid analytical solutions were relatively consistent at about 0.01 to 0.001. The transmissivity and storage coefficients are consistent with the conceptual model of a thick, stratified, water table aquifer.

The log mean T for all reasonable analyses is 174,500 gpd/ft and the log mean value for S is 0.0137. The log mean T for three wells in the vicinity of the production well is 122,100 and S = 0.092. The most reliable curve and calculated aquifer parameters were obtained from the Holgate well. The log mean values for T and S from the Holgate well were 100,000 gpd/ft and 0.0129, respectively.

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SIMULATIONS OF AQUIFER RESPONSE TO PUMPING

GENERAL

Mathematical simulations of aquifer response to a variety of pumping scenarios are easily performed but the results must be used with caution. Most hydrogeologic systems are much more complex than can be realistically modeled.

Each of the variables involved in these simulations is actually a range of values. For example, aquifer transmissivity values determined from the pump test range from 11,000 to 600,000 gpd/ft. Based on experience, the conceptual model of the aquifer, and analytical checks, the range of possible transmissivities were reduced to two discrete values for purposes of the simulations. Other parameters were similarly selected to be as representative as possible. Horizontal and vertical properties change in the aquifer with distance and when simulations are extended well out in time, temporal water level changes can also impact the results.

With these precautionary points in mind, the simulations produced for this investigation were selected to illustrate a range of possible effects from the proposed groundwater diversions. The predicted drawdowns should be viewed as indications of aquifer response and not absolute values.

The important variables used in these simulations are discussed separately below to provide a basis for their use in the simulations. Many combinations are possible; a few were selected to be representative and to illustrate the range.

VARIABLES

PUMPING RATE

The FFH, Inc. application is for a total of 5 cubic feet per second (cfs) or about 2,300 gpm. Part of the total applied diversion was for fire protection, which will be

used only in short-term emergency situations. The long-term sustained pumping rate for evaluation of potential impacts from this project is estimated to be 1,000 gpm. This estimate is based on the following logic:

In-house potable use:

1,000 homes x 400 gallons per day/home = 400,000 gal/day x 365 days/year = 146,000,000 gallons per year

Irrigation:

500 homes will rely on potable water for lawn irrigation every other day for 6 months = 500 x 183 days divided by 2 (alternate day watering) = 45,750 irrigation water days.

Irrigation will consist of 10 gpm for 8 hours = 4,800 gal per irrigation day per home.

45,750 home irrigation days per year x 4,800 gal/day = 219,600,000 gal per year

Average Annual Use:

Potable	146,000,000 gal
Irrigation	219,600,000 gal
Total Annual	365,600,000 gal
Average Daily (1,440 min/day, 365 days/year)	695 gpm
Average Potable Use:	400,000 gal per day
Average Rate (1,440 min/day)	278 gpm

Average Irrigation Season Use:

Potable (6 months)	73,000,000 gal
Irrigation	219,000,000 gal
Total Seasonal	292,000,000 gal
Average daily (1,440 min/day, 183 days)	1,108 gpm

The average pumping rate must be consistent with the pumping period also used in the simulations. Pumping rates versus simulation times are discussed in the "Simulation Time" section. The average rate used for analysis of long-term pumping effects is 1,000 gpm. This conservatively accounts for errors in the assumptions for the long-term average rate and is consistent with the seasonal high demand.

The time delay for the demand to reach maximum values is not considered. It may be that demand will gradually increase over the next 5 to 10 years. For the purposes of this exercise, these pumping rates are assumed to be constant.

WELL FIELD CONFIGURATION

At least two production wells would be needed to supply the total project. The existing production well cannot supply 1,000 gpm, and water service regulations require a second well if the total service connections exceed 29 homes.

According to FFH, Inc.'s application and personal communication with Roylance Engineers, the engineer for FFH, Inc., the second production well will be installed 1,800 feet north of the existing well.

Thus, the configuration used to simulate long-term aquifer response includes two wells, 1,800 feet apart, each pumping at 500 gpm.

AQUIFER RECHARGE

Historically, the aquifer is recharged annually. During the test, recharge from the pumping discharge was detected in the Eichhorn well next to the Farmers Union Canal. Although not investigated during this study, canal leakage is probably a significant source of water in the aquifer.

Canal leakage can be estimated by a variety of methods. Using a methodology presented in the Drainage Manual (pages 167-168), the seepage can be estimated as follows:

$$q' = \frac{K(B+(2d))}{3.5}$$

where:

q' = seepage in cubic feet per day per linear foot
K = hydraulic conductivity in ft^2/day
d = depth of water in canal in feet
B = width of water channel in feet
3.5 = factor to adjust hydraulic conductivity values to seepage losses from ponding tests

Assuming the canal is 1.5 miles long adjacent to the property, and assuming the following values for the variables of:

K = 1.3 ft^2/day (silty sand)
d = 3 feet
B = 10 feet

The total seepage for a 180-day irrigation season is 63 million gallons, or a constant rate of about 243 gpm. This number is not presented as a statement of fact but rather as an example of some of the variables that are involved in aquifer simulations. This leakage valve does not include the recharge from laterals or direct application.

SIMULATION TIME

Simulation time is a critical element of this evaluation and should be carefully considered. Given the fact that recharge is known to occur, yet without a full understanding of the sources and magnitude of recharge, it is impossible to include defendable recharge assumptions in the simulations. Without accounting for recharge, however, simulated drawdowns increase vertically and spread horizontally continuously with increased simulation time.

IDWR indicated they wanted to see a 30-year simulation. It is unreasonable to assume that no recharge reaches the aquifer for 30 years. Although the amount of recharge is unknown, annual recharge does reach the aquifer; otherwise, groundwater mining would be occurring. Therefore, a 30-year simulation without recharge represents an unrealistic worst case scenario.

It is perhaps more realistic to look at the aquifer response when recharge is not as likely, such as for the period from late fall to spring. Thus, a 6-month simulation would give an idea of the aquifer response under a reasonably realistic scenario of limited or no surficial recharge. Lateral recharge from the northeast will still be occurring however, and for some period after the irrigation season water will continue to enter the aquifer. So even this scenario produces more drawdown than may be expected. If a 6-month "nonirrigation" period is selected, then the average pumping rate for that period should also be used. In this case, it is 278 gpm (1,000 homes @ 400 gallons per day per home).

SIMULATION OF FUTURE PUMPING

METHOD

A relatively simple analytical model developed by CH2M HILL called WELSIM was used to simulate aquifer response to various pumping scenarios. WELSIM is based on the Theis equation.

ASSUMPTIONS

Wells

Two wells, each pumping at the same rate, were used. The wells consist of the existing well and a new well approximately 1,800 feet north.

Aquifer Properties

Two values for transmissivities were used: 100,000 gpd/ft to simulate near well Ts for short-term simulation, and 174,000 gpd/ft for long-term simulation when areas of increased aquifer transmissivity may be encountered by the cone of depression. The lower T was also used for long-term pumping to compare the effect that a more conservative estimate of the aquifer properties had on predicted drawdowns. A constant value for S of 0.02 was used.

Pumping Rates and Durations

Two pumping rates were simulated: 278 gpm and 1,000 gpm. The lower pumping rate was used for a 6-month simulation to illustrate the "nonirrigation" scenario discussed above. The higher rate was simulated for durations of 6 months, 1 year, 5 years, 15 years, and 30 years.

Recharge

As an exercise, a third simulation was performed that included five recharge wells at 50 gpm each evenly spread along the Farmers Union Canal alignment. The recharge simulations were conducted for a 6-month duration only.

RESULTS

Table 2 summarizes the various drawdown simulations conducted. Figures 30 through 34 provide plan views of the drawdown cone from the long-term simulations using the higher T. Figures 35 through 37 provide plan views of the drawdown if a lower T is used.

Table 2 Summary of Aquifer Simulations Floating Feather Hills, Inc.				
Simulation Number	**Transmissivity (gpd/ft)**	**Time (Days)**	**Pumping Rate (gpm)**	**Recharge**
FFH61a	100,000	183	278	No
FFH62	100,000	183 - 10950	1,000	No
FFH70	174,000	183 - 10950	1,000	No
FFH71a	174,000	183	1,000	Yes
FFH72a	100,000	183	1,000	Yes

As can be seen from the drawdown maps, the aquifer is relatively insensitive to the range of transmissivities, pumping rates, or pumping times. The worst case scenario of 1,000 gpm for 30 years with no recharge and the lower aquifer transmissivity, (Figure 37) results in 7 feet of drawdown at 1 mile and about 11 feet of drawdown in the vicinity of the two wells. With the higher transmissivity (Figure 34), the drawdown is about 4 feet at 1 mile. There is little appreciable difference between the predicted drawdowns from these two sets of simulations. Review of Figures 30 through 37 also indicates that there is little appreciable growth of the cone of depression with time.

The least amount of drawdown predicted was the 6-month "nonirrigation" simulation shown in Figure 38. Drawdowns predicted for this period were about 0.6 feet at 1 mile.

Figures 39 and 40 include a simulated recharge for 6 months. Comparison of Figures 39 with Figure 30 and Figure 40 with Figure 35 indicates that recharge reduced the drawdown 1.0 to 0.5 feet over the short pumping durations in these simulations.

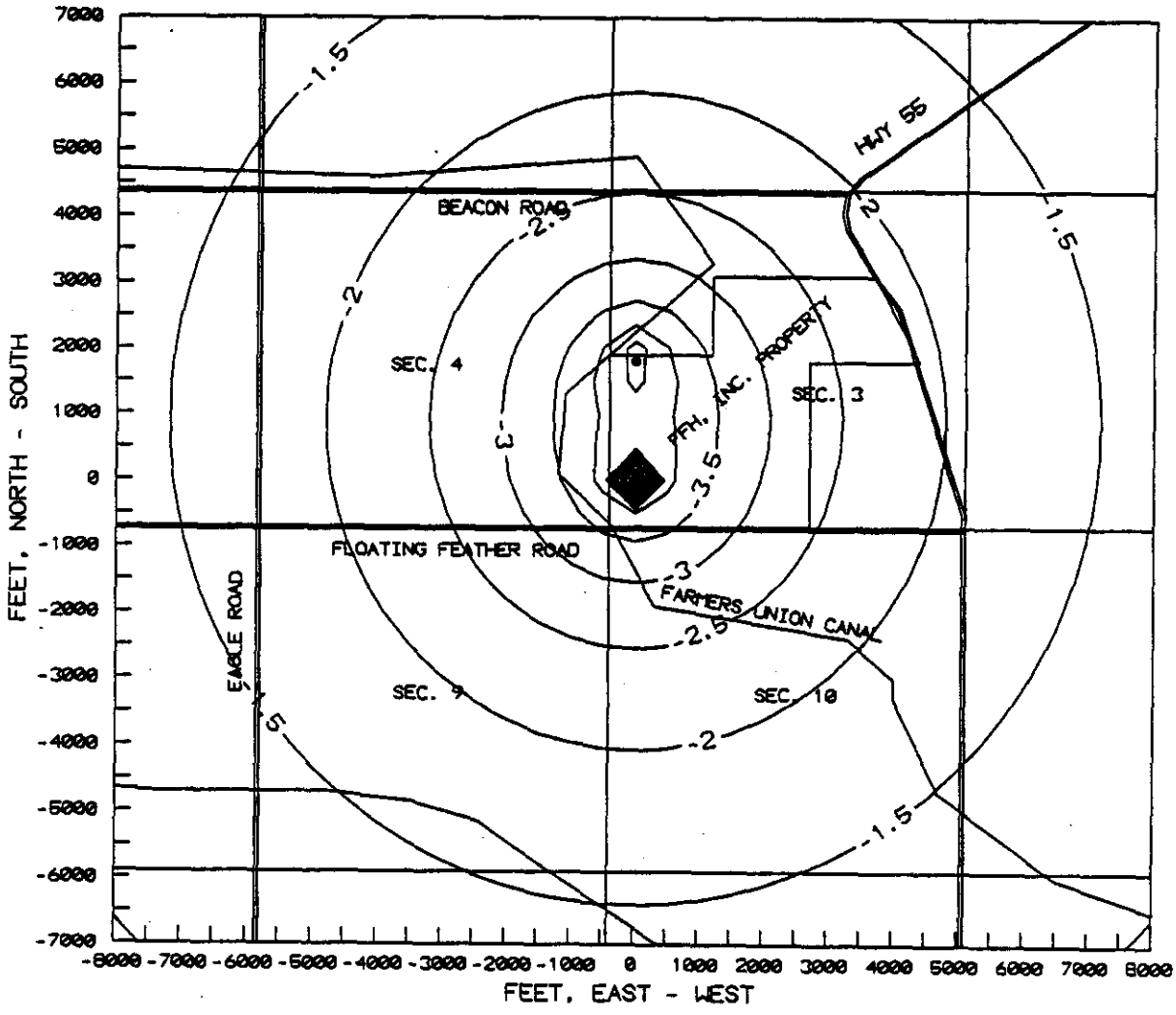


FIGURE 30
DRAWDOWN SIMULATION
T=174K, Q=1000gpm, t=6 MONTHS
FLOATING FEATHER HILLS, INC.

BOI31684 A1

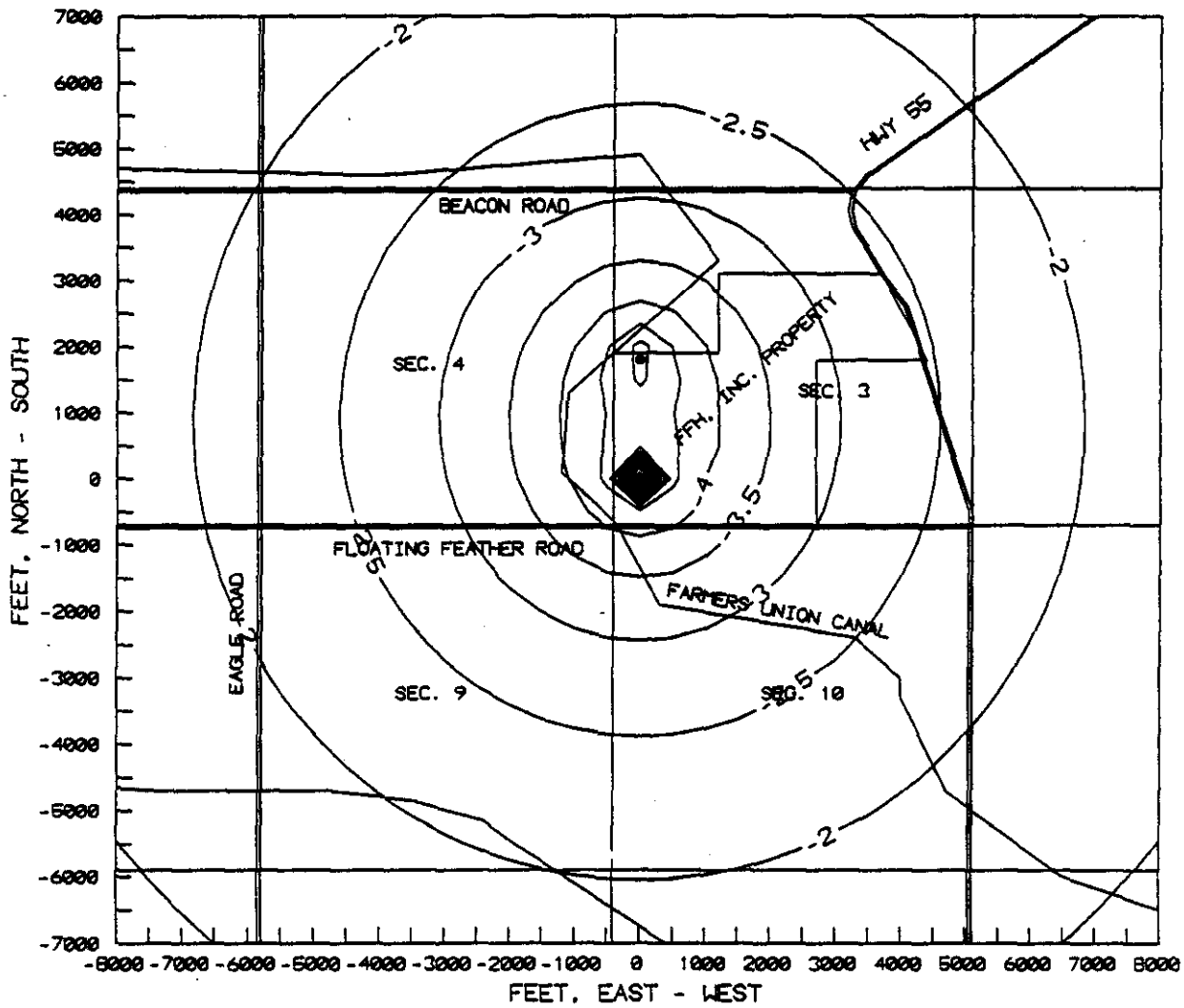


FIGURE 31
DRAWDOWN SIMULATION
T=174 K, Q=1000 gpm, t=1YEAR
FLOATING FEATHER HILLS, INC.

BO131684 A1

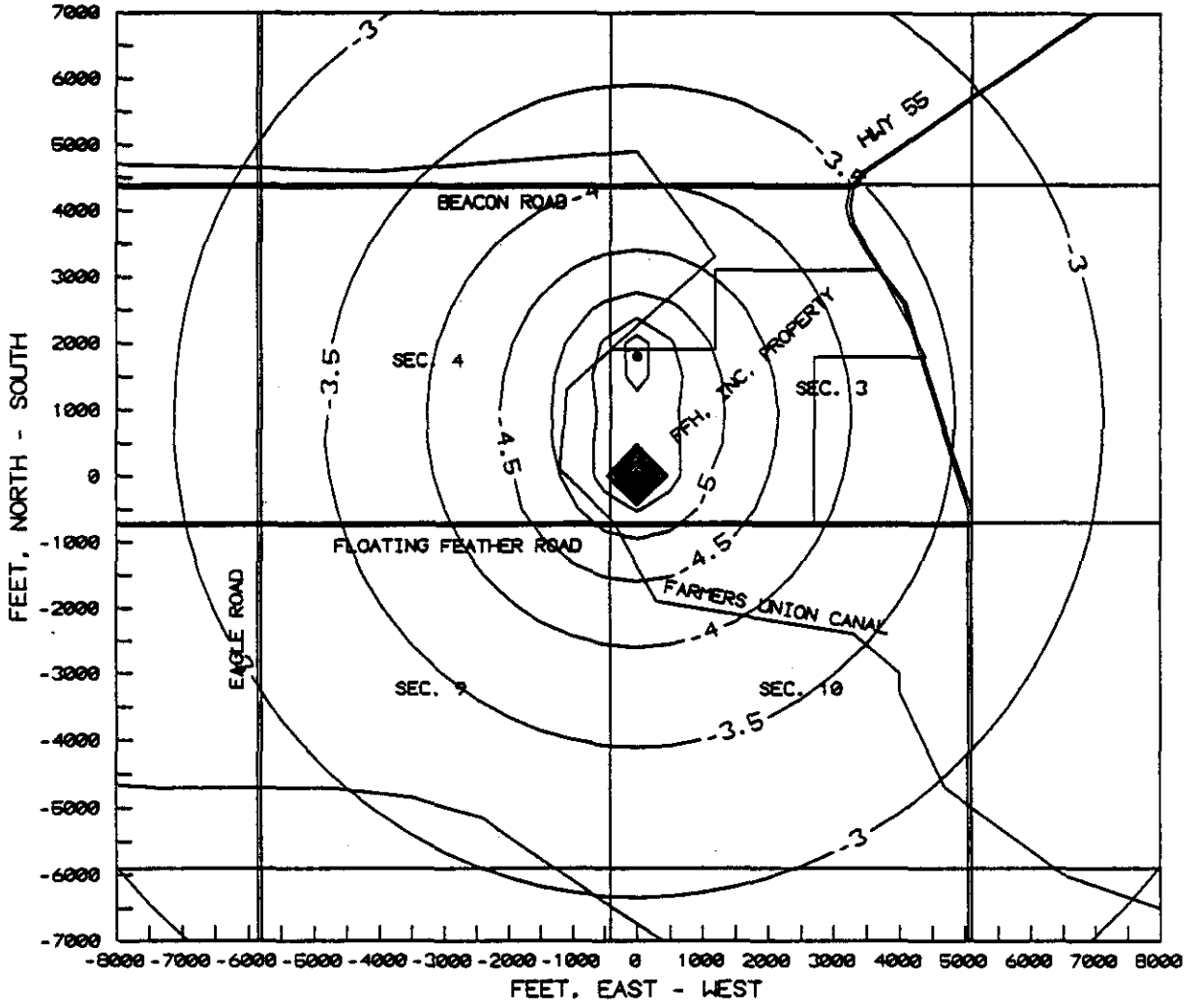


FIGURE 32
DRAWDOWN SIMULATION
T=174K, Q=1000 gpm, t=5YEARS
FLOATING FEATHER HILLS, INC.

BOI31684 A1

CH2M HILL

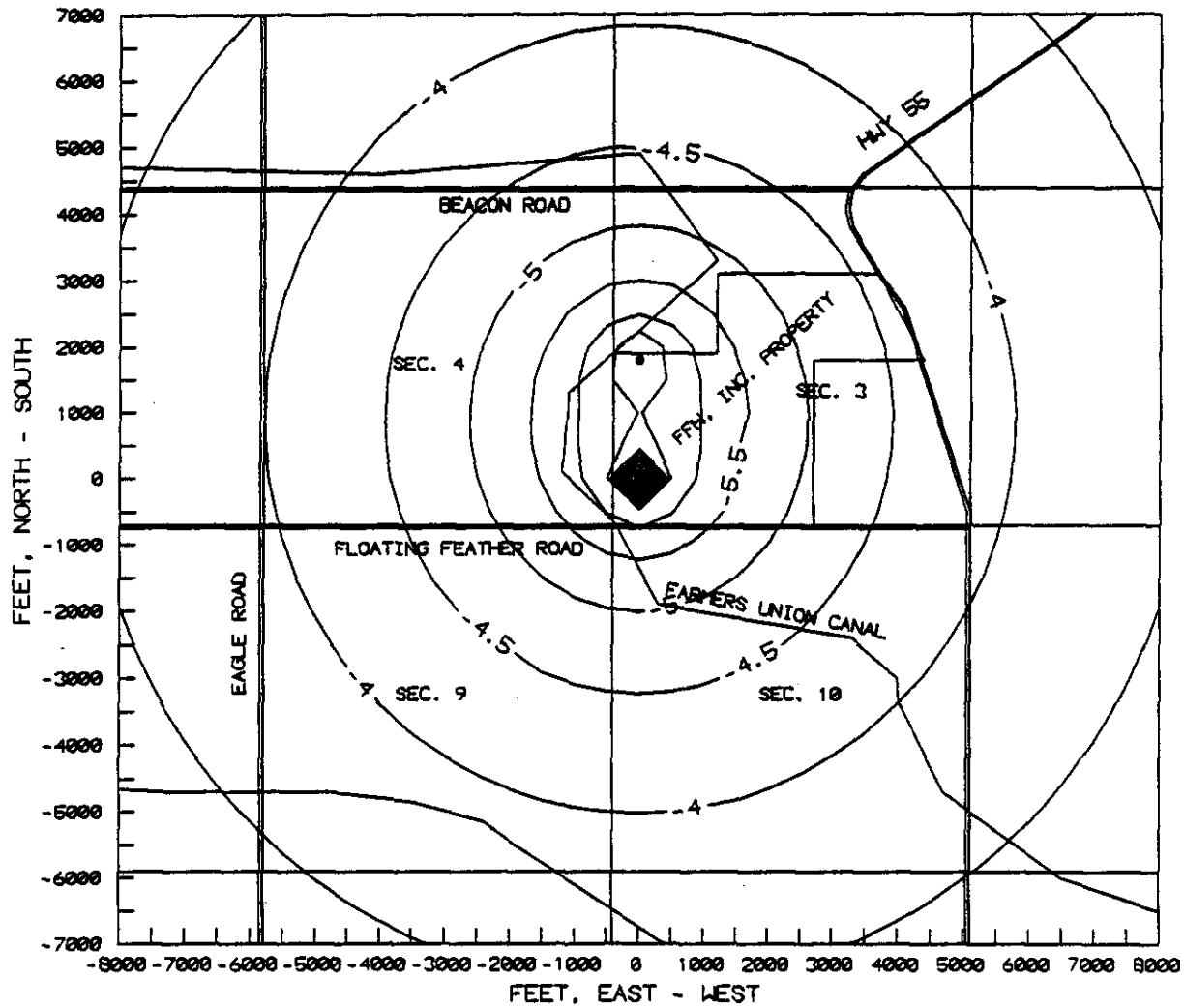


FIGURE 33
DRAWDOWN SIMULATION
T=174K, Q=1000 gpm, t=15YEARS
FLOATING FEATHER HILLS, INC.

BOI31684 A1

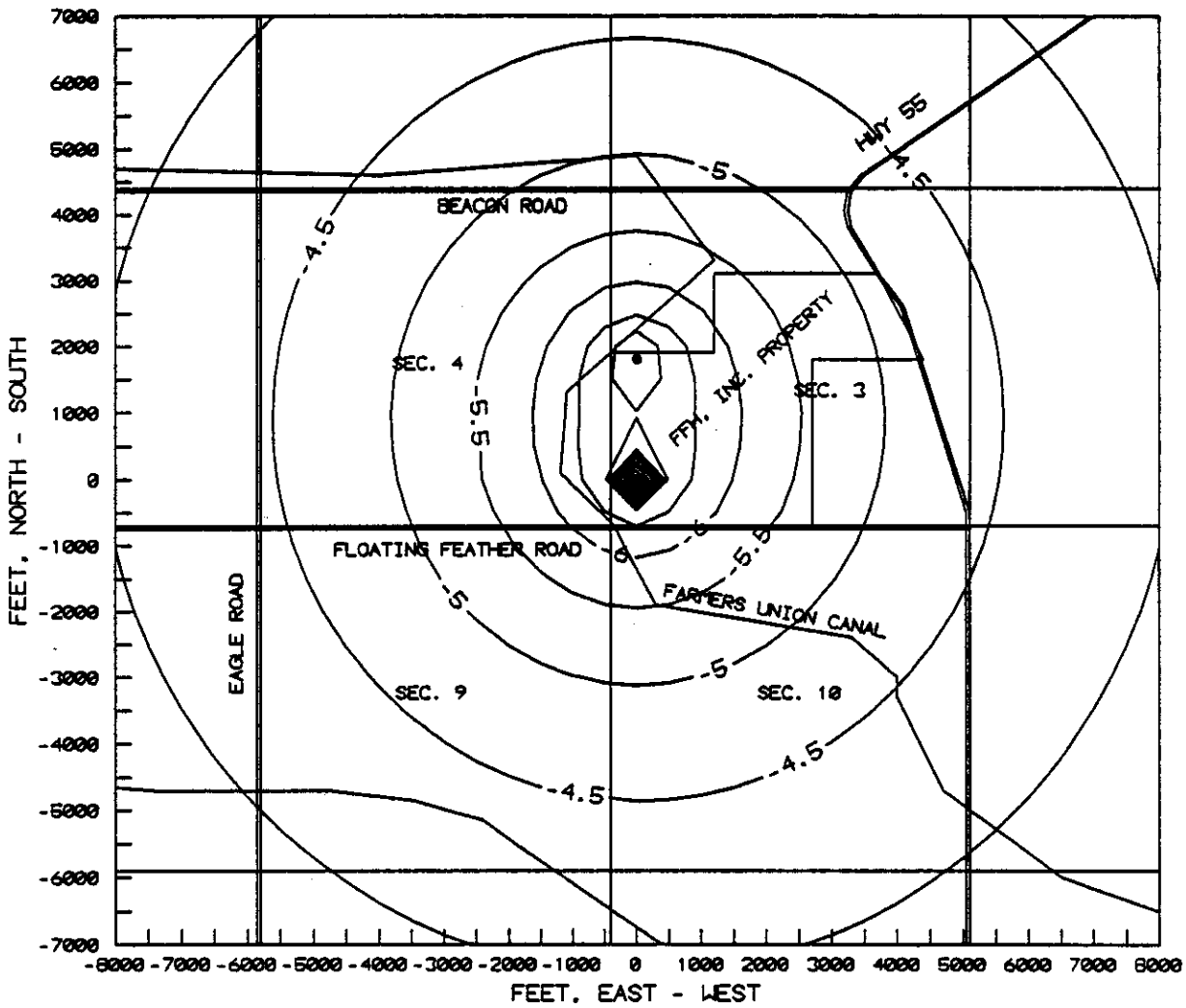


FIGURE 34
DRAWDOWN SIMULATION
T=174K, Q=1000 gpm, t=30YEARS
FLOATING FEATHER HILLS, INC.

BOI31684 A1

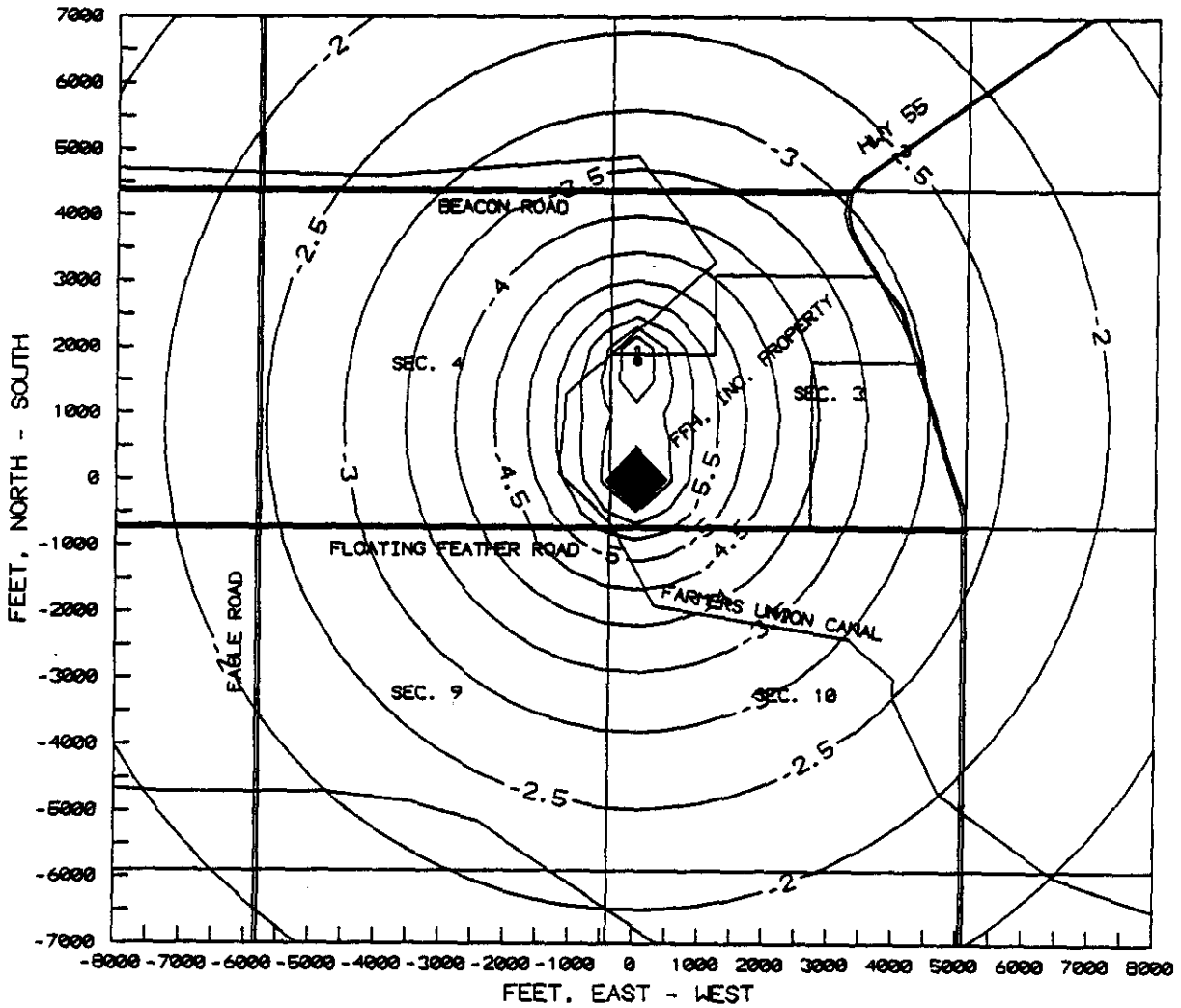


FIGURE 35
DRAWDOWN SIMULATION
T=100K, Q=1000 gpm, t=6MONTHS
FLOATING FEATHER HILLS, INC.

BOI31684 A1

CH2M HILL

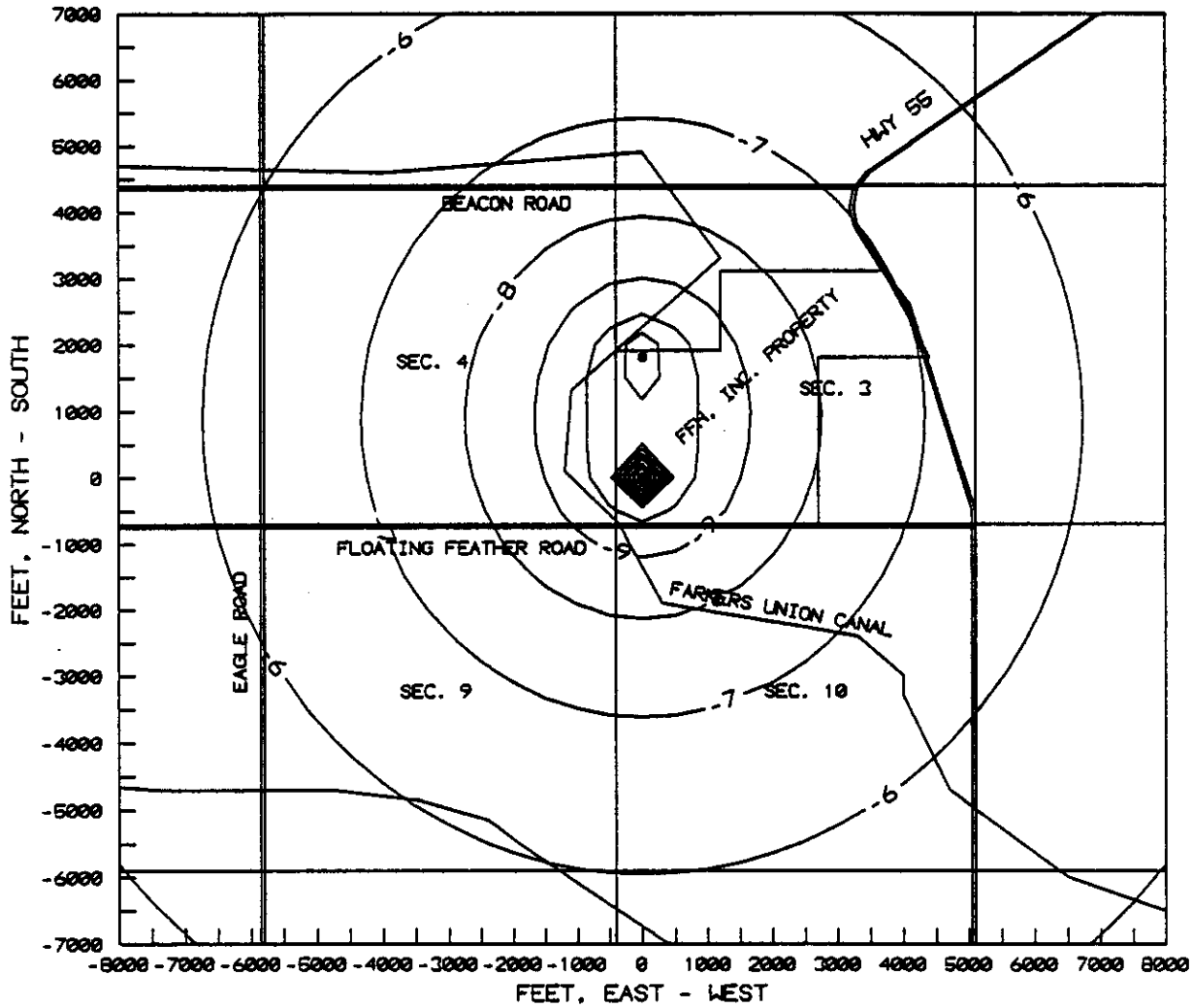


FIGURE 36
DRAWDOWN SIMULATION
T=100K, Q=1000 gpm, t=15YEARS
FLOATING FEATHER HILLS, INC.

BQ131684 A1

CH2M HILL

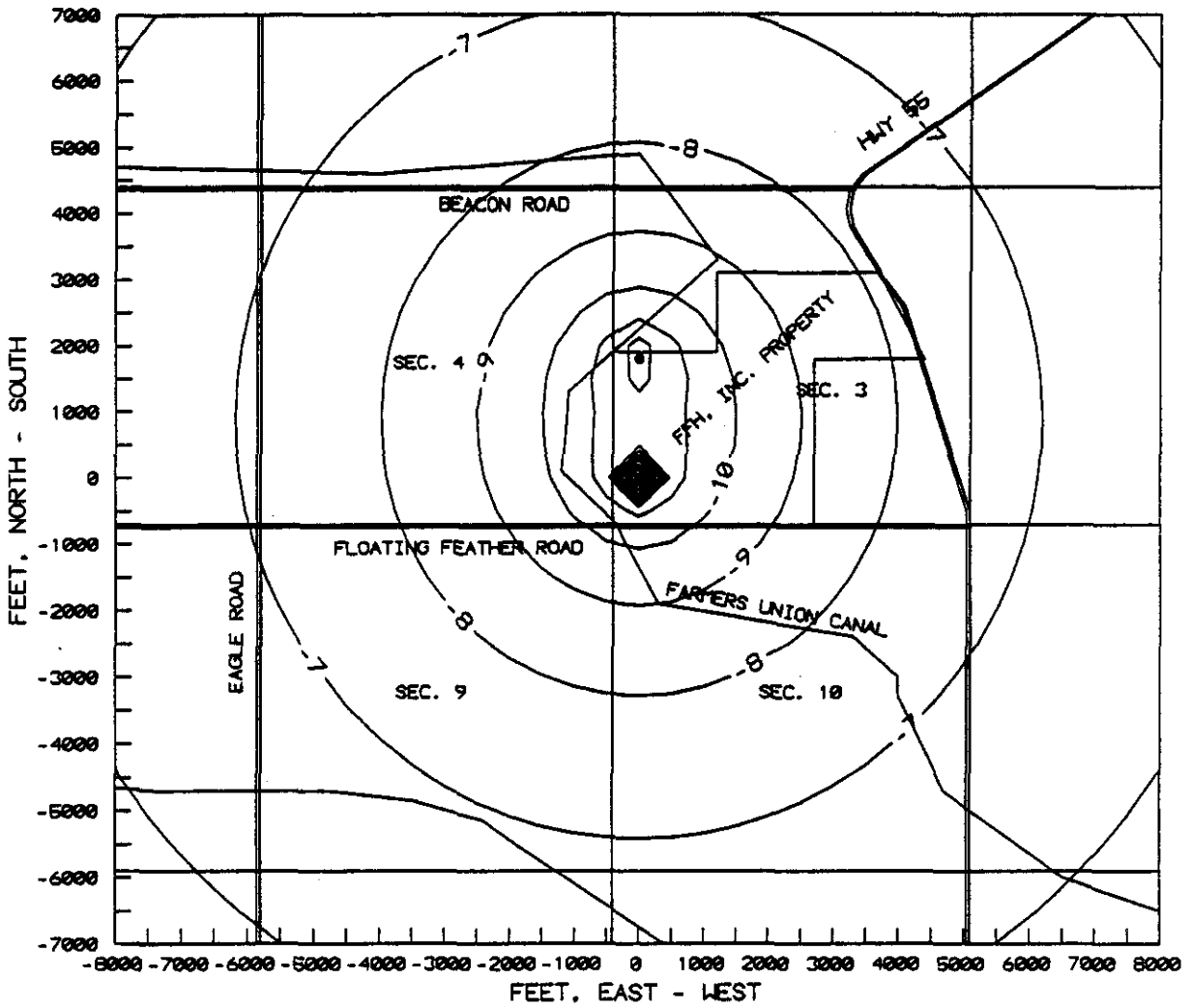


FIGURE 37
DRAWDOWN SIMULATION
T=100K, Q=1000 gpm, t=30YEARS
FLOATING FEATHER HILLS, INC.

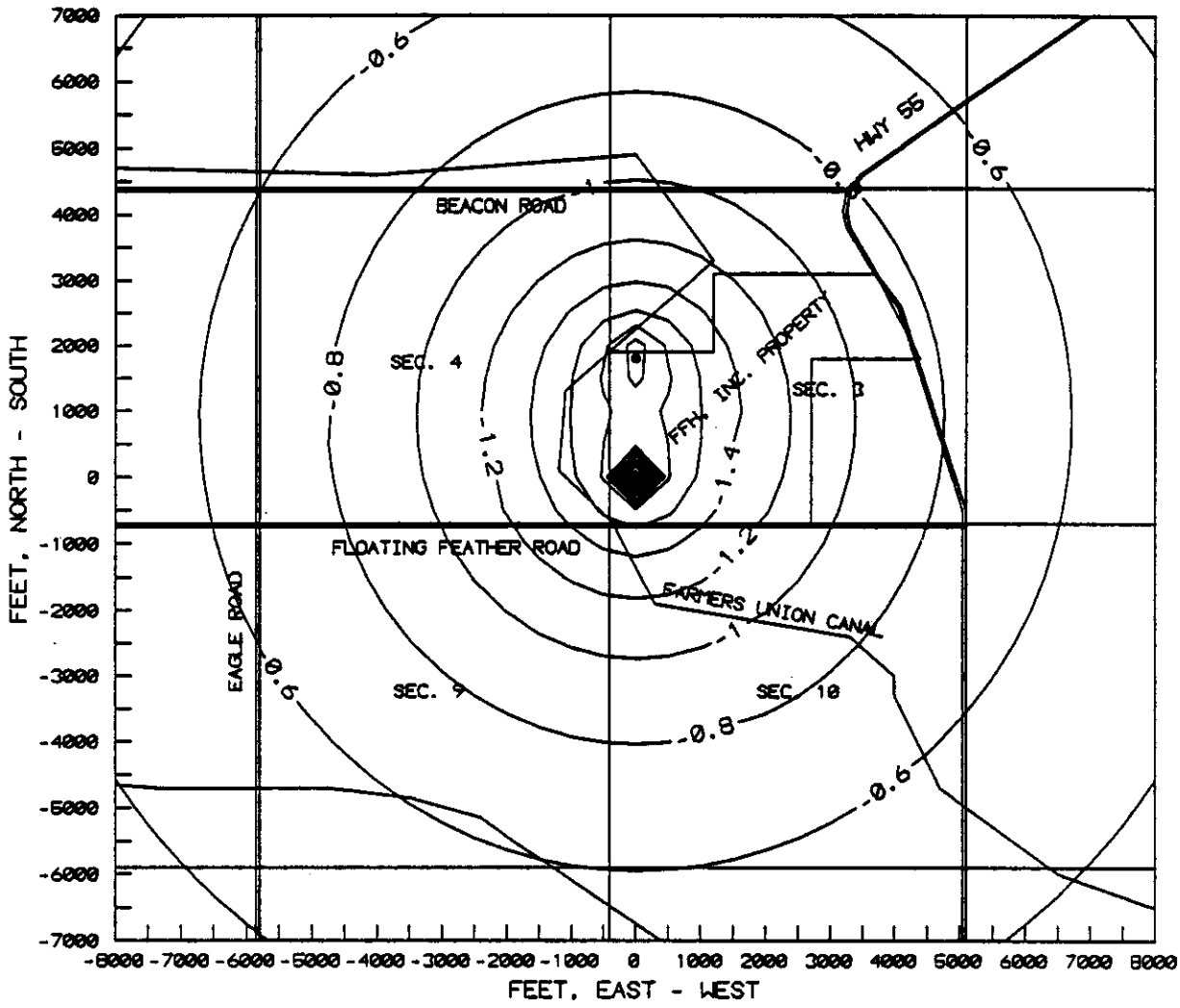


FIGURE 38
DRAWDOWN SIMULATION
T=100K, Q=278 gpm, t=6MONTHS
FLOATING FEATHER HILLS, INC.

BOI31684 A1

CH2MHILL

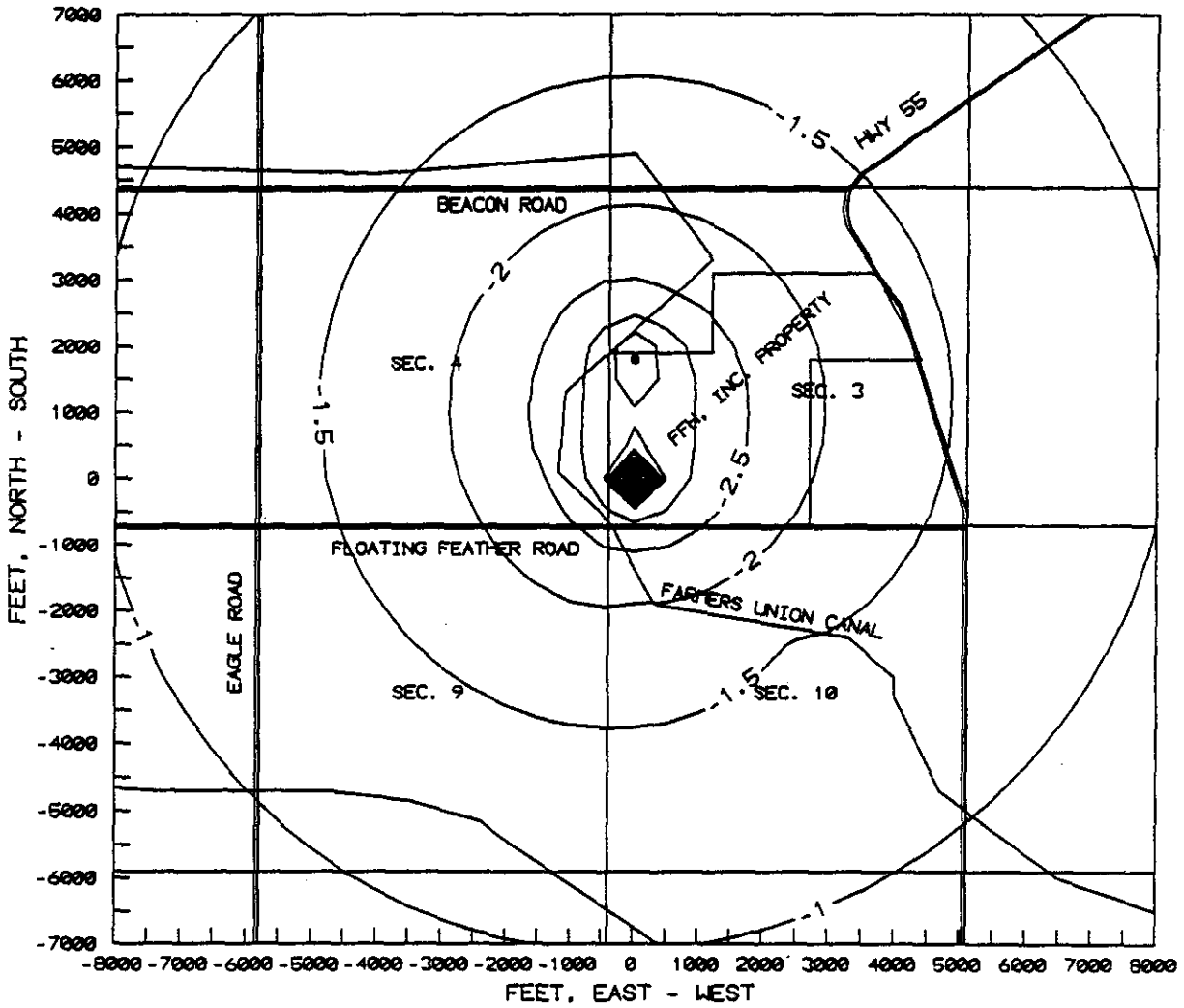


FIGURE 39
DRAWDOWN SIMULATION WITH RECHARGE T=174K, Q=1000 gpm, t=6MONTHS R=250 gpm
FLOATING FEATHER HILLS, INC.

BOI31684 A1

CH2MHILL

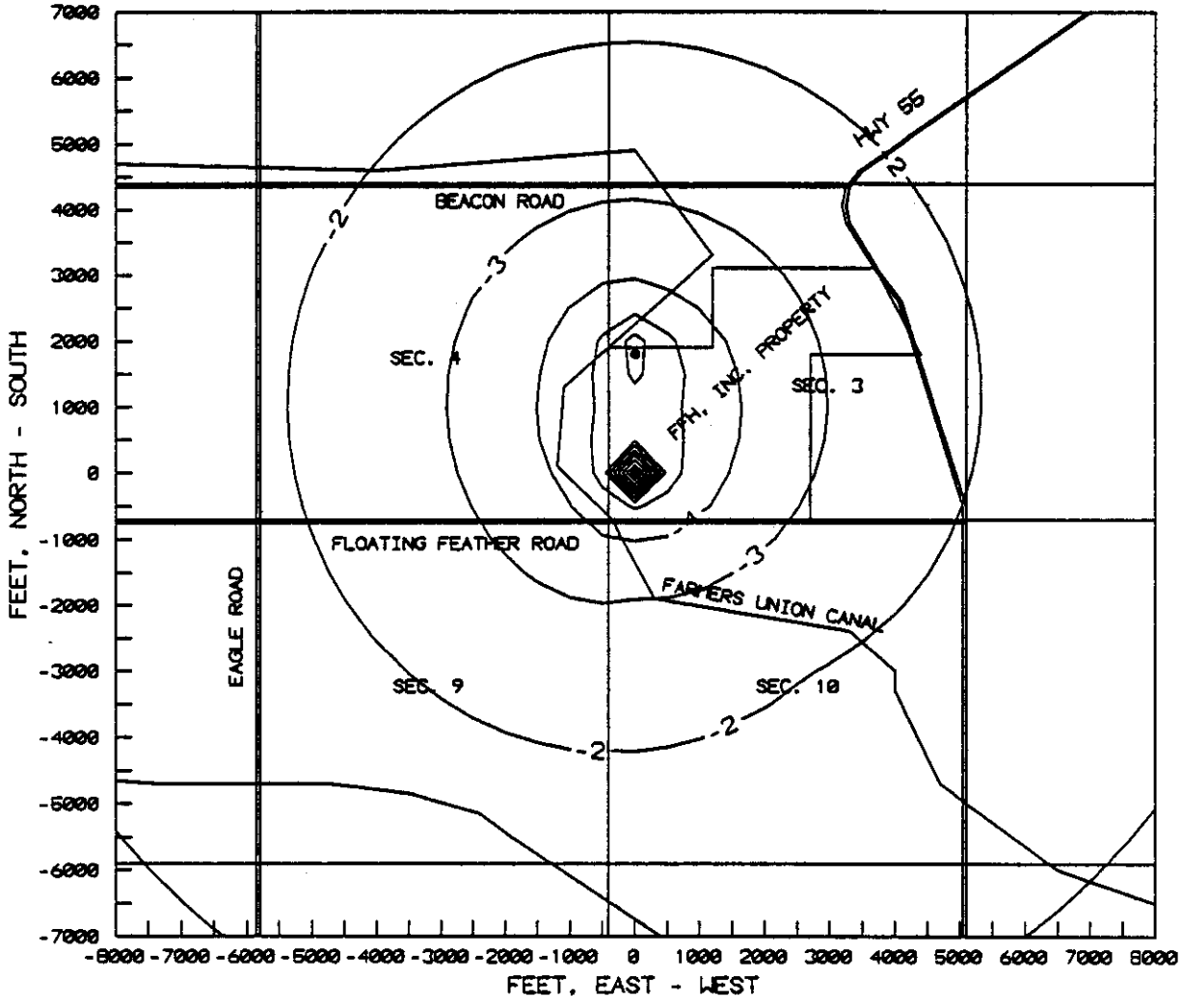


FIGURE 40
DRAWDOWN SIMULATION WITH RECHARGE T=100K, Q=1000 gpm, t=6MONTHS, R=250 gpm
FLOATING FEATHER HILLS, INC.

BOI31684 A1

CH2M HILL

Appendix F provides the WELSIM printouts for the simulations conducted. The printouts give the impact variables and expected with levels at the pumped wells.

BOIM3/026.51/jai

RECOMMENDATIONS

The proposed groundwater diversions should be permitted on the basis of the demonstration of an adequate resource and limited impact to existing water rights.

The Eagle area is experiencing considerable growth and change from irrigated pasture- and farmland to residential development. The groundwater resources are consequently becoming increasingly important for potable water supplies and, as such, steps should be taken to begin or expand basic data collection to allow evaluation and monitoring of the impact of future groundwater diversions.

A monitoring system should be developed to allow tracking the temporal changes in water levels in the aquifer. Of particular concern is whether the aquifer is being mined over the long duration. Deep and shallow wells should be included. The monitoring wells may be obtained by review of unused wells or new wells installed. The Hormachea well used is this test is a good candidate for a deep monitoring well. There are a number of wells completed in the 175- to 200-foot depth range in the area. An observation well(s) completed in this depth range should be included. The Holgate well may be a candidate for this depth interval, depending on the ultimate resolution of the Holgate property. Presently, it is included in the FFH, Inc. development and, consequently, the well may be taken out of service.

Other wells in the area are available, such as the Floating Feather Irrigation District well. The Day well or another suitable new or abandoned well in the Sage Area Subdivision should be included in an observation network.

Permanent water level recorders and record management should be included in the necessary IDWR budgets to conduct a dedicated, long-term, water level monitoring program for this area.

Additional aquifer tests are needed to determine the lateral and vertical variability of the aquifer. Collection and analysis of aquifer characteristics by pumping tests should

be conditions of permits for proposed groundwater diversions. Multiple well tests are better than single well tests but all wells should be pump tested.

A water balance should be conducted to identify and characterize recharge and discharge to the aquifer. This aquifer represents a sole source water supply for this area. Recharge areas should be identified and be protected.

IDWR and/or the USGS should continue to collate information and complete their analysis of the aquifer(s) in the Eagle area. The information should be made readily available to the public and periodically published.

BOIM3/026.51/jai

REFERENCES

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BOIM3/026.51/jai

Appendix A
FLOATING FEATHER, INC.
APPLICATION FOR PERMIT

Ident. No. **63-11413**

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

1. Name: FLOATING FEATHER HILLS INC. 208-343-6500
   Address: 2417 BANKS DRIVE
   SUITE 101
   BOISE, ID 83705
   AND
   Name: TREASURE VALLEY VILLAGE 208-336-3393
   Address: LIMITED PARTNERSHIP
   4720 EMERALD
   BOISE, ID 83706

2. Source: GROUNDWATER Trib. to:

3. Location of Point of Diversion:

NWSW	Sec.	3,	Township 04N, Range 01E
NESE	Sec.	4,	Township 04N, Range 01E
SWSWSW	Sec.	3,	Township 04N, Range 01E
SWSW	Sec.	4,	Township 04N, Range 01E

ADA County

4. Water will be used for the following purposes:

Purpose	From	To	CFS	(or)	AF
IRRIGATION	03/15	11/15	2.000		
DOMESTIC	01/01	12/31	1.250		
FIRE PROTECTION	01/01	12/31	2.000		

5. Total quantity to be appropriated is:
   5.000 CFS (and/or) AF

6. Proposed diverting works:
   a. Description of ditches, flumes, pumps, headgates, etc.
   WELL, PUMP AND PIPELINE
   b. Height of storage dam feet; active reservoir capacity acre-feet; total reservoir capacity acre-feet; period of year when water will be diverted to storage: to inclusive.
   c. Proposed well diameter is 24 inches; proposed depth of well is 415 feet.
   d. Is groundwater with a temperature greater than 90F being sought? NO

7. Time required for the completion of the works and application of the water to the proposed beneficial use is 5 years.

8. Description of proposed uses:
DOMESTIC USE FOR 900 HOMES, FIRE PROTECTION, IRRIGATION.

9. Place of Use: IRRIGATION

TWN	RGE	SEC			ACRES		ACRES		ACRES	TOTAL
04N	01E	3	LOT	2(NWNE)	3	SWNE	29	SENE	6	
			LOT	3(NENW)	3	SENW	19	NESW	19	
				NWSW	19	SWSW	19	SESW	19	
				NESE	5	NWSE	17	SWSE	22	
				SESE	20					200

Total number of acres irrigated: 200

Place of Use: DOMESTIC, same as IRRIGATION use

Place of Use: FIRE PROTECTION, same as IRRIGATION use

10. Describe any other water rights used for the same purposes.

11. a. Who owns the property at the point of diversion?
APPLICANT
b. Who owns the land to be irrigated or place of use?
APPLICANT
c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing.

12. Remarks:
Amended by adding Treasure Valley Village requirements on 3/14/91
PROTESTANTS: MORE THAN 80.
PUMP TEST BEING CONDUCTED BY APPLICANTS.

13. Map of proposed point of diversion and place of use attached? [ ]

BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

_____
Applicant

Received by _____ Date _____ Time_____ Preliminary check by _____

Fee $ _____ Receipted by _____ # _____ Date _____

Publication prepared by _____ Date _____ Published in _____

Publication approved _____ Date _____

Appendix B
DRILLERS LOG AND WELL COMPLETION REPORT FOR THE PRODUCTION WELL

Form 238-7
6/89

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE TYPEWRITER OR BALLPOINT PEN

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

1. WELL OWNER

Name: Floating Feather Hills, Inc.
Address: 2417 Bank Drive-Suite 101, Boise, ID 83705
Owner's Permit No. 63-11413

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
Well diameter increase
Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

3. PROPOSED USE

☐ Domestic ☐ Irrigation ☒ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection (specify type)
☐ Other

4. METHOD DRILLED

☐ Rotary ☐ Air ☐ Hydraulic ☒ Reverse rotary
☐ Cable ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Casing schedule: ☒ Steel ☐ Concrete ☐ Other

Thickness	Diameter	From	To
.250 inches	16 inches	+18" feet	215 feet
.250 inches	16 inches	265 feet	375 feet
.250 inches	16 inches	385 feet	405 feet
____ inches	____ inches	____ feet	____ feet

Was casing drive shoe used? ☐ Yes ☒ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☐ Yes ☒ No
How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun
Size of perforation ____ inches by ____ inches

Number	From	To
____ perforations	____ feet	____ feet
____ perforations	____ feet	____ feet
____ perforations	____ feet	____ feet

Well screen installed? ☒ Yes ☐ No
Manufacturer's name: Roscoe Moss
Type: Hvy.Stainless Steel Model No.: Wirewra
Diameter 16" Slot size .040 Set from 215 feet to 265 feet
Diameter 16" Slot size .040 Set from 375 feet to 385 feet
Gravel packed? ☒ Yes ☐ No ☐ Size of gravel: 3/8-
Placed from 315 feet to 190 feet
Surface seal depth 20' material used: ☒ Cement grout ☐ Bentonite ☐ Puddling clay ☐ ____
Sealed also at 190-210
Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☐ Overbore to seal depth
Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld
☐ Cemented between strata
Describe access port: ___. 2"

6. LOCATION OF WELL

Sketch map location must agree with written location.

N / W / E / S

Subdivision Name ____
Lot No. ____ Block No. ____
County: Ada
SW¼ SW¼ Sec. 3, T. 4N ☐ N ☐ S, R. 1E ☐ E ☐ W

7. WATER LEVEL

Static water level 68 feet below land surface.
Flowing? ☐ Yes ☐ No G.P.M. flow ____
Artesian closed-in pressure ____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature ____ °F. Quality ____
Describe artesian or temperature zones below

8. WELL TEST DATA

☒ Pump ☐ Bailer ☐ Air ☐ Other ____

Discharge G.P.M.	Pumping Level	Hours Pumped
		6 3

9. LITHOLOGIC LOG

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
18"	0	3	Top Soil		
	3	15	Sandy Loam		
	15	25	Coarse Sand & Pea Gravel		
	25	40	Med. to Crse. Sand		
	40	75	River Rock		
	75	85	Fine Sand		
	85	87	Lite Brn. Clay		
	87	106	Fine Sand		
	106	108	Lite Brn. Clay		
	108	124	Fine Sand		
	124	130	Lt. Brn. Clay		
	130	165	Fine Sand		
	165	175	Gldn.Fn./Med.Sand with some clay in spots.		
	175	182	Fine Sand		
	182	185	Lt.Brn.Clay & Fine Sand		
	185	189	Fine Sand		
	189	193	Fine to crse. Sand		
	193	195	Med./Crse. Sand & Clay Mxd		
	195	198	Lt. Brn. Clay		
	198	205	Fine to Med. Sand		
	205	209	Fine/Crse.Sand & Lt.Brn. Clay Mxd.		
	209	211	Fine Sand		
	211	215	Fine/Med.Sand & Lt.Brn Clay		
	215	225	Fine Sand		
	225	235	Sandwitched Sand & Clay (4)		
	235	265	Gray Sand		
	265	275	Sand-Clay (50-50)		
	275	282	Gray Clay		
	282	290	Fine Gray Sand		
	290	300	Gray Clay		
	300	305	Fine Gray Sand		
	305	311	Gray Clay w/sm.st.fine sand		
	311	315	Brn. & Gray Clay		

10.

Work started 2/26/91 finished 3/7/91

11. DRILLERS CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name: PETE COPE DRILLING CO., INC. Firm No.: 213
Address: 6505 W. Chinden Blvd. Meridian, ID Date ____
Signed by (Firm Official) ____
and
(Operator) ____

Form 238-7
6/89

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

BALLPOINT PEN

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

1. WELL OWNER

Name Floating Feather Hills, Inc.

Address _____

Owner's Permit No. _____

2. NATURE OF WORK

☐ New well ☐ Deepened ☐ Replacement
☐ Well diameter increase
Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

3. PROPOSED USE

☐ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (specify type)

4. METHOD DRILLED

☐ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary
☐ Cable ☐ Dug ☐ Other _____

5. WELL CONSTRUCTION

Casing schedule: ☐ Steel ☐ Concrete ☐ Other _____

Thickness	Diameter	From	To
_____ inches	_____ inches +	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

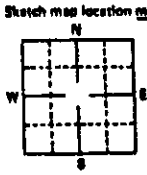
Was casing drive shoe used? ☐ Yes ☐ No
Was a packer or seal used? ☐ Yes ☐ No
Perforated? ☐ Yes ☐ No
How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun
Size of perforation _____ inches by _____ inches

Number	From	To
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet

Well screen installed? ☐ Yes ☐ No
Manufacturer's name _____
Type _____ Model No. _____
Diameter ___ Slot size ___ Set from _____ feet to _____ feet
Diameter ___ Slot size ___ Set from _____ feet to _____ feet
Gravel packed? ☐ Yes ☐ No ☐ Size of gravel _____
Placed from _____ feet to _____ feet
Surface seal depth _____ ☐ Cement grout ☐ Neat cement ☐ Concrete
☐ Bentonite ☐ Puddling clay ☐ _____
Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☐ Overbore to seal depth
Method of joining casing: ☐ Threaded ☐ Welded ☐ Solvent Weld ☐ Cemented between strata
Describe access port _____

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name _____
Lot No. _____ Block No. _____
County _____
_____ ¼ _____ ¼ Sec. _____ T. _____ ☐ N ☐ S R. _____ ☐ E ☐ W

USE ADDITIONAL SHEETS IF NECESSARY — FORWARD THE WHITE COPY

7. WATER LEVEL

Static water level _____ feet below land surface.
Flowing? ☐ Yes ☐ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature _____ °F. Quality _____
Describe artesian or temperature zones below

8. WELL TEST DATA

☐ Pump ☐ Bailer ☐ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped

9. LITHOLOGIC LOG

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
28"	315	325	Brn. & Gray Clay Mix w/ streaks of fine sand.		
	325	335	Blue Brown clay w/ stks. of sand.		
	335	351	Fine Blue Sand		
	351	365	Blue Clay		
	365	385	Fine Blue Sand		
	385	388	Blue Clay		
	388	393	Blue Sand		
	393	405	Blue Clay		

10.

Work started _____ finished _____

11. DRILLERS CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name PETE COPE DRILLING CO., INC. Firm No. 213

Address _____ Date _____

Signed by (Firm Official) _____

and

(Operator) _____

Appendix C
WATER LEVEL DATA AND RECORDER CHART FROM THE USGS WELL

PRODUCTION WELL

CH2M HILL PUMPING TEST REPORT

PROJECT NO: BOI 31684.A1

WELL NO: FFH, INC. PRODUCTION WELL
TYPE OF DATA: DRAWDOWN
PUMPED WELL NO: PW RADIUS: 14"(28"HOLE)
PUMPING RATES: 750.0 Gallons per minute
HOW Q MEASURED: FLOWMETER
HOW WL's MEASURED: AIR LINE
DIST. FROM PUMPED WELL: 1 FOOT

PUMPING / OBSERVATION WELL

M.P. FOR WL'S: TOP OF CASING ELEV.:
PUMP ON: DATE 26-Mar-91 TIME 10:56:00
PUMP OFF: DATE 25-Apr-91 TIME 11:03:00
STATIC WATER LEVEL (FT BMP): 74.00
COMMENTS: FLOW METER AT START 786,800

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA: DEPTH TO WATER (FT)	WATER LEVEL DATA: DRAW DOWN (FT)	ADJUSTED WATER LEVEL (FT)	ADJUSTED DRAW DOWN (FT)	FLOW METER (GALLONS X 100)	TOTAL GALLONS (X 100)	Q AVG CURRENT (GPM)	Q AVG TO DATE (GPM)	REMARKS
26-Mar	10:50:00	-6.0		74.0	0.0	74.00	0.00	786,800	0			
26-Mar	10:54:00	-2.0		74.0	0.0	74.00	0.00	786,800	0			Regression from Holgate well used.
26-Mar	10:55:00	-1.0		74.0	0.0	74.00	0.00	786,800	0			
26-Mar	10:56:15	0.3		110.0	36.0	74.00	36.00					Regression Output:
26-Mar	10:56:30	0.5		118.0	44.0	74.00	44.00					Constant 74.00
26-Mar	10:57:00	1.0		122.0	48.0	74.00	48.00					Std Err of Y Est 0.06
26-Mar	10:58:00	2.0		126.0	52.0	74.00	52.00					R Squared 0.95
26-Mar	10:59:00	3.0		130.0	56.0	74.00	56.00					No. of Observations 5.00
26-Mar	11:00:00	4.0		133.0	59.0	74.00	59.00					Degrees of Freedom 3.00
26-Mar	11:02:00	6.0		134.0	60.0	74.00	60.00					
26-Mar	11:03:00	7.0		135.0	61.0	74.00	61.00					X Coefficient(s) 0.000050
26-Mar	11:04:00	8.0		136.0	62.0	74.00	62.00					Std Err of Coef. 0.000007
26-Mar	11:05:00	9.0		136.5	62.5	74.00	62.50					
26-Mar	11:07:00	11.0		139.0	65.0	74.00	65.00					X Y
26-Mar	11:09:00	13.0		140.0	66.0	74.00	66.00					-9696.00 68.14
26-Mar	11:11:00	15.0		141.5	67.5	74.00	67.50	786,900	100	667	667	-5481.00 68.38
26-Mar	11:13:00	17.0		142.0	68.0	74.00	68.00					-4016.00 68.39
26-Mar	11:15:00	19.0		143.0	69.0	74.00	69.00					-15.00 68.70
26-Mar	11:17:00	21.0		143.5	69.5	74.00	69.50					-3.00 68.58
26-Mar	11:18:00	22.0		144.0	70.0	74.00	70.00					
26-Mar	11:20:00	24.0		144.5	70.5	74.00	70.50					
26-Mar	11:22:00	26.0		145.0	71.0	74.00	71.00					
26-Mar	11:24:00	28.0		145.1	71.1	74.00	71.10					
26-Mar	11:26:00	30.0		146.0	72.0	74.00	72.00					
26-Mar	11:32:00	36.0		147.0	73.0	74.00	73.00					
26-Mar	11:35:00	39.0		147.0	73.0	74.00	73.00					
26-Mar	11:38:00	42.0		147.1	73.1	74.00	73.10					
26-Mar	11:41:00	45.0		147.5	73.5	74.00	73.50					
26-Mar	11:46:00	50.0		147.0	73.0	74.00	73.00	787,190	390	829	780	
26-Mar	11:51:00	55.0		147.1	73.1	74.00	73.10					
26-Mar	11:56:00	60.0		147.1	73.1	74.00	73.10					
26-Mar	12:01:00	65.0		147.5	73.5	74.00	73.50	787,310	510	800	785	
26-Mar	12:06:00	70.0		147.5	73.5	74.00	73.50					
26-Mar	12:07:00	71.0		146.0	72.0	74.00	72.00					
26-Mar	12:12:00	76.0		145.0	71.0	74.00	71.00					
26-Mar	12:16:00	80.0		145.0	71.0	74.00	71.00					
26-Mar	12:36:00	100.0		145.1	71.1	74.01	71.09					
26-Mar	12:47:00	111.0		147.0	73.0	74.01	72.99	787,612	812	657	732	
26-Mar	12:56:00	120.0		147.0	73.0	74.01	72.99					
26-Mar	13:16:00	140.0		147.0	73.0	74.01	72.99					
26-Mar	13:36:00	160.0		147.0	73.0	74.01	72.99	788,024	1,224	841	765	
26-Mar	13:56:00	180.0		147.2	73.2	74.01	73.19	788,190	1,390	830	772	
26-Mar	14:16:00	200.0		147.2	73.2	74.01	73.19	788,340	1,540	750	770	
26-Mar	14:36:00	220.0		147.5	73.5	74.01	73.49	788,490	1,690	750	768	
26-Mar	15:16:00	260.0		147.8	73.8	74.01	73.79	788,827	2,027	842	780	
26-Mar	15:56:00	300.0		148.0	74.0	74.02	73.98	789,112	2,312	712	771	
26-Mar	16:56:00	360.0		148.0	74.0	74.02	73.98	789,524	2,724	687	757	

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *FFH, INC. PRODUCTION WELL* — PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* — M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* — PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* — PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *AIR LINE* — STATIC WATER LEVEL (FT BMP): *74.00*

DIST. FROM PUMPED WELL: *1 FOOT* — COMMENTS: *FLOW METER AT START* 786,800

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA: DEPTH TO WATER (FT)	WATER LEVEL DATA: DRAW DOWN (FT)	ADJUSTED WATER LEVEL (FT)	ADJUSTED DRAW DOWN (FT)	FLOW METER (GALLONS X 100)	TOTAL GALLONS (X 100)	Q AVG CURRENT (GPM)	Q AVG TO DATE (GPM)	REMARKS
26-Mar	17:56:00	420.0		147.8	73.8	74.02	73.78	789,984	3,184	767	758	
26-Mar	18:56:00	480.0		148.0	74.0	74.02	73.98	790,409	3,609	708	752	
26-Mar	19:56:00	540.0		148.0	74.0	74.03	73.97	790,853	4,053	740	751	
26-Mar	20:56:00	600.0		148.2	74.2	74.03	74.17	791,298	4,498	742	750	
26-Mar	21:56:00	660.0		148.5	74.5	74.03	74.47	791,742	4,942	740	749	
27-Mar	08:26:00	1290.0		149.0	75.0	74.06	74.94	796,378	9,578	736	742	
27-Mar	12:07:00	1511.0		148.0	74.0	74.08	73.92	798,039	11,239	752	744	
27-Mar	18:08:00	1872.0		148.0	74.0	74.09	73.91	800,663	13,863	727	741	
27-Mar	23:26:00	2190.0		148.0	74.0	74.11	73.89	802,964	16,164	724	738	
28-Mar	08:23:00	2727.0		148.5	74.5	74.14	74.36	806,880	20,080	729	736	
28-Mar	12:40:00	2984.0		148.0	74.0	74.15	73.85	808,735	21,935	722	735	
28-Mar	18:18:00	3322.0		147.0	73.0	74.17	72.83	811,164	24,364	719	733	
28-Mar	23:00:00	3604.0		147.0	73.0	74.18	72.82	813,176	26,376	713	732	
29-Mar	08:24:00	4168.0		147.0	73.0	74.21	72.79	817,205	30,405	714	729	
29-Mar	08:30:00	4174.0		149.5	75.5	74.21	75.29					
29-Mar	13:48:00	4492.0		149.5	75.5	74.23	75.27	819,600	32,800	739	730	
29-Mar	18:16:00	4760.0		149.5	75.5	74.24	75.26	821,574	34,774	737	731	
29-Mar	23:34:00	5078.0		149.5	75.5	74.26	75.24	823,914	37,114	736	731	
30-Mar	08:46:00	5630.0		150.0	76.0	74.28	75.72	827,972	41,172	735	731	
30-Mar	13:07:00	5891.0		149.5	75.5	74.30	75.20	829,898	43,098	738	732	
30-Mar	18:40:00	6224.0		154.0	80.0	74.31	79.69	832,360	45,560	739	732	
30-Mar	22:50:00	6474.0		154.0	80.0	74.33	79.67	834,253	47,453	757	733	
31-Mar	08:28:00	7052.0		152.5	78.5	74.35	78.15	838,637	51,837	758	735	
31-Mar	14:02:00	7386.0		152.0	78.0	74.37	77.63	841,163	54,363	756	736	
31-Mar	23:31:00	7955.0		152.0	78.0	74.40	77.60	845,467	58,667	756	737	
01-Apr	08:40:00	8504.0		152.5	78.5	74.43	78.07	849,624	62,824	757	739	
01-Apr	15:30:00	8914.0		151.0	77.0	74.45	76.55	852,721	65,921	755	740	
01-Apr	22:11:00	9315.0		104.0	30.0	74.47	29.53	855,438	68,638	678	737	Pump off at about 21:40.
01-Apr	22:50:00	9354.0				74.47	-74.47					Pump back on.
01-Apr	22:54:00	9358.0		141.0	67.0	74.47	66.53	855,487	68,687	114	734	
02-Apr	07:35:00	9879.0		150.0	76.0	74.50	75.50	859,404	72,604	752	735	
02-Apr	14:40:00	10304.0		150.0	76.0	74.52	75.48	862,591	75,791	750	736	
02-Apr	22:15:00	10759.0		150.0	76.0	74.54	75.46	865,990	79,190	747	736	
03-Apr	08:15:00	11359.0		151.0	77.0	74.57	76.43	870,479	83,679	748	737	
03-Apr	14:12:00	11716.0		150.0	76.0	74.59	75.41	873,141	86,341	746	737	
03-Apr	20:23:00	12087.0		151.0	77.0	74.61	76.39	875,911	89,111	747	737	
04-Apr	08:20:00	12804.0		154.0	80.0	74.64	79.36	881,260	94,460	746	738	
04-Apr	14:39:00	13183.0		151.0	77.0	74.66	76.34	884,081	97,281	744	738	
04-Apr	22:40:00	13664.0		151.0	77.0	74.69	76.31	887,669	100,869	746	738	
05-Apr	08:57:00	14281.0		154.0	80.0	74.72	79.28	892,260	105,460	744	738	
05-Apr	09:17:00	14301.0		154.5	80.5	74.72	79.78	892,411	105,611	755	738	
05-Apr	12:21:00	14485.0		151.0	77.0	74.73	76.27	893,774	106,974	741	739	
05-Apr	16:04:00	14708.0		151.0	77.0	74.74	76.26	895,426	108,626	741	739	
05-Apr	22:34:00	15098.0		152.0	78.0	74.76	77.24	898,323	111,523	743	739	
06-Apr	09:22:00	15746.0		152.0	78.0	74.79	77.21	903,131	116,331	742	739	
06-Apr	16:26:00	16170.0		152.0	78.0	74.81	77.19	906,277	119,477	742	739	

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *FFH, INC. PRODUCTION WELL* — PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* — M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* — PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* — PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *AIR LINE* — STATIC WATER LEVEL (FT BMP): *74.00*

DIST. FROM PUMPED WELL: *1 FOOT* — COMMENTS: *FLOW METER AT START* 786,800

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA: DEPTH TO WATER (FT)	WATER LEVEL DATA: DRAW DOWN (FT)	ADJUSTED WATER LEVEL (FT)	ADJUSTED DRAW DOWN (FT)	FLOW METER (GALLONS X 100)	TOTAL GALLONS (X 100)	Q AVG CURRENT (GPM)	Q AVG TO DATE (GPM)	REMARKS
06-Apr	22:13:00	16517.0		152.0	78.0	74.83	77.17	908,846	122,046	740	739	Daylight savings begins at 2 am.
07-Apr	09:42:00	17206.0		152.0	78.0	74.86	77.14	913,500	126,700	675	736	Elapsed time adjusted -60 min.
07-Apr	16:49:00	17633.0		152.0	78.0	74.89	77.11	916,658	129,858	740	736	
07-Apr	23:50:00	18054.0		152.0	78.0	74.91	77.09	919,777	132,977	741	737	
08-Apr	09:22:00	18626.0		152.0	78.0	74.94	77.06	924,003	137,203	739	737	
08-Apr	15:09:00	18973.0		152.0	78.0	74.95	77.05	926,569	139,769	739	737	
08-Apr	20:19:00	19283.0		152.0	78.0	74.97	77.03	928,856	142,056	738	737	
09-Apr	09:28:00	20072.0		152.0	78.0	75.01	76.99	934,680	147,880	738	737	
09-Apr	10:49:00	20153.0		154.0	80.0	75.01	78.99	935,283	148,483	744	737	
09-Apr	16:19:00	20483.0		155.0	81.0	75.03	79.97	937,779	150,979	756	737	
09-Apr	22:47:00	20871.0		155.0	81.0	75.05	79.95	940,710	153,910	755	737	
10-Apr	09:06:00	21490.0		155.0	81.0	75.08	79.92	945,385	158,585	755	738	
10-Apr	16:30:00	21934.0		155.0	81.0	75.10	79.90	948,735	161,935	755	738	
10-Apr	22:00:00	22264.0		155.0	81.0	75.12	79.88	951,225	164,425	755	739	
11-Apr	09:29:00	22953.0		155.0	81.0	75.15	79.85	956,417	169,617	754	739	
11-Apr	16:33:00	23377.0		155.0	81.0	75.18	79.82	959,611	172,811	753	739	
11-Apr	23:46:00	23810.0		155.0	81.0	75.20	79.80	962,870	176,070	753	739	
12-Apr	09:39:00	24403.0		156.0	82.0	75.23	80.77	967,334	180,534	753	740	
12-Apr	11:35:00	24519.0		156.0	82.0	75.23	80.77	968,219	181,419	763	740	
12-Apr	13:10:00	24614.0		153.0	79.0	75.24	77.76	968,949	182,149	768	740	
12-Apr	13:39:00	24643.0		153.0	79.0	75.24	77.76	969,156	182,356	712	740	
12-Apr	14:06:00	24670.0		153.0	79.0	75.24	77.76	969,355	182,555	739	740	
12-Apr	14:17:00	24681.0		153.0	79.0	75.24	77.76	969,435	182,635	723	740	
12-Apr	20:50:00	25074.0		156.0	82.0	75.26	80.74	972,410	185,610	757	740	
13-Apr	08:54:00	25798.0		155.0	81.0	75.30	79.70	977,875	191,075	755	741	
13-Apr	14:12:00	26116.0		155.0	81.0	75.31	79.69	980,274	193,474	754	741	
13-Apr	21:04:00	26528.0		155.0	81.0	75.33	79.67	983,382	196,582	754	741	
14-Apr	08:28:00	27212.0		155.0	81.0	75.37	79.63	988,534	201,734	753	741	
14-Apr	17:04:00	27728.0		155.0	81.0	75.39	79.61	992,418	205,618	753	742	
14-Apr	22:07:00	28031.0		155.0	81.0	75.41	79.59	994,695	207,895	751	742	
15-Apr	09:56:00	28740.0		155.0	81.0	75.44	79.56	1,000,020	213,220	751	742	
15-Apr	16:29:00	29133.0		155.0	81.0	75.46	79.54	1,002,969	216,169	750	742	
15-Apr	21:16:00	29420.0		155.0	81.0	75.48	79.52	1,005,120	218,320	749	742	
16-Apr	09:53:00	30177.0		155.0	81.0	75.52	79.48	1,010,790	223,990	749	742	
16-Apr	18:00:00	30664.0		155.0	81.0	75.54	79.46	1,014,433	227,633	748	742	
17-Apr	01:00:00	31084.0		155.0	81.0	75.56	79.44	1,017,573	230,773	748	742	
17-Apr	11:47:00	31731.0		155.0	81.0	75.59	79.41	1,022,401	235,601	746	742	
17-Apr	17:49:00	32093.0		155.0	81.0	75.61	79.39	1,025,101	238,301	746	743	
17-Apr	23:42:00	32446.0		155.0	81.0	75.63	79.37	1,027,732	240,932	745	743	
18-Apr	10:11:00	33075.0		154.0	80.0	75.66	78.34	1,032,416	245,616	745	743	
18-Apr	18:42:00	33586.0		154.0	80.0	75.69	78.31	1,036,217	249,417	744	743	
18-Apr	23:25:00	33869.0		155.0	81.0	75.70	79.30	1,038,339	251,539	750	743	
19-Apr	10:14:00	34518.0		155.0	81.0	75.74	79.26	1,043,204	256,404	750	743	
19-Apr	15:13:00	34817.0		155.0	81.0	75.75	79.25	1,045,441	258,641	748	743	
19-Apr	23:16:00	35300.0		155.0	81.0	75.77	79.23	1,049,048	262,248	747	743	
20-Apr	09:50:00	35934.0		155.0	81.0	75.81	79.19	1,053,779	266,979	746	743	
20-Apr	19:54:00	36538.0		155.0	81.0	75.84	79.16	1,058,287	271,487	746	743	

CH2M HILL *PUMPING TEST REPORT*

PROJECT NO: BOI 31684.A1

WELL NO: *FFH, INC. PRODUCTION WELL*
TYPE OF DATA: *DRAWDOWN*
PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)*
PUMPING RATES: *750.0 Gallons per minute*
HOW Q MEASURED: *FLOWMETER*
HOW WL's MEASURED: *AIR LINE*
DIST. FROM PUMPED WELL: *1 FOOT*

PUMPING / OBSERVATION WELL

M.P. FOR WL'S: *TOP OF CASING* ELEV.:
PUMP ON: DATE *26-Mar-91* TIME *10:56:00*
PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*
STATIC WATER LEVEL (FT BMP): *74.00*
COMMENTS: *FLOW METER AT START* 786,800

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA: DEPTH TO WATER (FT)	WATER LEVEL DATA: DRAW DOWN (FT)	ADJUSTED WATER LEVEL (FT)	ADJUSTED DRAW DOWN (FT)	FLOW METER (GALLONS X 100)	TOTAL GALLONS (X 100)	Q AVG CURRENT (GPM)	Q AVG TO DATE (GPM)	REMARKS
20-Apr	23:39:00	36763.0		155.0	81.0	75.85	79.15	1,059,967	273,167	747	743	
21-Apr	10:29:00	37413.0		155.0	81.0	75.88	79.12	1,064,818	278,018	746	743	
21-Apr	16:28:00	37772.0		155.0	81.0	75.90	79.10	1,067,494	280,694	745	743	
21-Apr	21:30:00	38074.0		155.0	81.0	75.91	79.09	1,069,744	282,944	745	743	
22-Apr	09:39:00	38803.0		155.0	81.0	75.95	79.05	1,075,180	288,380	746	743	
22-Apr	15:03:00	39127.0		155.0	81.0	75.97	79.03	1,077,594	290,794	745	743	
22-Apr	20:35:00	39459.0		155.0	81.0	75.98	79.02	1,080,065	293,265	744	743	
23-Apr	09:05:00	40209.0		155.0	81.0	76.02	78.98	1,085,650	298,850	745	743	
23-Apr	17:15:00	40699.0		155.0	81.0	76.05	78.95	1,089,292	302,492	743	743	
23-Apr	22:17:00	41001.0		155.0	81.0	76.06	78.94	1,091,538	304,738	744	743	
24-Apr	09:08:00	41652.0		155.0	81.0	76.09	78.91	1,096,379	309,579	744	743	
24-Apr	16:11:00	42075.0		155.0	81.0	76.11	78.89	1,099,522	312,722	743	743	
24-Apr	22:22:00	42446.0		155.0	81.0	76.13	78.87	1,102,278	315,478	743	743	
25-Apr	08:54:00	43078.0		155.0	81.0	76.17	78.83	1,106,973	320,173	743	743	
25-Apr	11:02:59	43207.0		155.0	81.0	76.17	78.83	1,107,918	321,118	733	743	
25-Apr	11:03:30	43207.5	86415.0	105.0	31.0	76.17	28.83					
25-Apr	11:03:45	43207.8	57610.3	95.0	21.0	76.17	18.83					
25-Apr	11:04:00	43208.0	43208.0	92.0	18.0	76.17	15.83					
25-Apr	11:04:30	43208.5	28805.7	93.0	19.0	76.17	16.83					
25-Apr	11:05:00	43209.0	21604.5	93.0	19.0	76.17	16.83					
25-Apr	11:05:30	43209.5	17283.8	92.0	18.0	76.17	15.83					
25-Apr	11:06:00	43210.0	14403.3	91.0	17.0	76.17	14.83					
25-Apr	11:07:00	43211.0	10802.7	90.0	16.0	76.17	13.83					
25-Apr	11:08:00	43212.0	8642.4	89.0	15.0	76.17	12.83					
25-Apr	11:09:00	43213.0	7202.2	87.5	13.5	76.17	11.33					
25-Apr	11:10:00	43214.0	6173.4	86.5	12.5	76.17	10.33					
25-Apr	11:11:00	43215.0	5401.9	86.0	12.0	76.17	9.83					
25-Apr	11:12:00	43216.0	4801.8	85.0	11.0	76.17	8.83					
25-Apr	11:13:00	43217.0	4321.7	85.0	11.0	76.17	8.83					
25-Apr	11:15:00	43219.0	3601.6	84.5	10.5	76.17	8.33					
25-Apr	11:17:00	43221.0	3087.2	84.0	10.0	76.17	7.83					
25-Apr	11:19:00	43223.0	2701.4	83.5	9.5	76.17	7.33					
25-Apr	11:20:00	43224.0	2542.6	83.5	9.5	76.17	7.33					
25-Apr	11:23:00	43227.0	2161.3	83.0	9.0	76.17	6.83					
25-Apr	11:28:00	43232.0	1729.3	82.5	8.5	76.17	6.33					
25-Apr	11:33:00	43237.0	1441.2	82.0	8.0	76.17	5.83					
25-Apr	11:38:00	43242.0	1235.5	81.5	7.5	76.17	5.33					
25-Apr	11:43:00	43247.0	1081.2	81.0	7.0	76.17	4.83					
25-Apr	11:48:00	43252.0	961.2	80.5	6.5	76.17	4.33					
25-Apr	11:53:00	43257.0	865.1	80.0	6.0	76.17	3.83					
25-Apr	12:03:00	43267.0	721.1	79.8	5.8	76.17	3.63					
25-Apr	12:28:00	43292.0	509.3	79.0	5.0	76.18	2.82					
25-Apr	12:48:00	43312.0	412.5	78.5	4.5	76.18	2.32					
25-Apr	13:08:00	43332.0	346.7	78.0	4.0	76.18	1.82					
25-Apr	13:43:00	43367.0	271.0	77.5	3.5	76.18	1.32					
25-Apr	14:13:00	43397.0	228.4	77.5	3.5	76.18	1.32					
25-Apr	14:43:00	43427.0	197.4	77.0	3.0	76.18	0.82					

CH2M HILL *PUMPING TEST REPORT*

PROJECT NO: BOI 31684.A1

WELL NO: *FFH, INC. PRODUCTION WELL*
TYPE OF DATA: *DRAWDOWN*
PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)*
PUMPING RATES: *750.0 Gallons per minute*
HOW Q MEASURED: *FLOWMETER*
HOW WL's MEASURED: *AIR LINE*
DIST. FROM PUMPED WELL: *1 FOOT*

PUMPING / OBSERVATION WELL

M.P. FOR WL'S: *TOP OF CASING* ELEV. :
PUMP ON: DATE *26-Mar-91* TIME *10:56:00*
PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*
STATIC WATER LEVEL (FT BMP): *74.00*
COMMENTS: *FLOW METER AT START* 786,800

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA: DEPTH TO WATER (FT)	WATER LEVEL DATA: DRAW DOWN (FT)	ADJUSTED WATER LEVEL (FT)	ADJUSTED DRAW DOWN (FT)	FLOW METER (GALLONS X 100)	TOTAL GALLONS (X 100)	Q AVG CURRENT (GPM)	Q AVG TO DATE (GPM)	REMARKS
25-Apr	15:13:00	43457.0	173.8	76.8	2.8	76.18	0.62					
25-Apr	15:43:00	43487.0	155.3	76.9	2.9	76.19	0.68					
25-Apr	16:13:00	43517.0	140.4	76.8	2.8	76.19	0.61					
25-Apr	16:43:00	43547.0	128.1	76.5	2.5	76.19	0.31					
25-Apr	17:30:00	43594.0	112.6	76.5	2.5	76.19	0.31					
25-Apr	18:20:00	43644.0	99.9	76.3	2.3	76.19	0.11					
25-Apr	19:23:00	43707.0	87.4	76.0	2.0	76.20	-0.20					
25-Apr	20:23:00	43767.0	78.2	76.0	2.0	76.20	-0.20					
25-Apr	21:03:00	43807.0	73.0	75.8	1.8	76.20	-0.40					
25-Apr	23:49:00	43973.0	57.4	76.0	2.0	76.21	-0.21					
26-Apr	07:58:00	44462.0	35.4	75.5	1.5	76.23	-0.73					
26-Apr	13:29:00	44793.0	28.2	75.5	1.5	76.25	-0.75					
26-Apr	17:28:00	45032.0	24.7	75.2	1.2	76.26	-1.06					
26-Apr	21:39:00	45283.0	21.8	75.5	1.5	76.28	-0.78					
27-Apr	00:45:00	45469.0	20.1	75.0	1.0	76.29	-1.29					
27-Apr	07:36:00	45880.0	17.2	75.5	1.5	76.31	-0.81					
27-Apr	11:34:00	46118.0	15.8	75.5	1.5	76.32	-0.82					
27-Apr	18:50:00	46554.0	13.9	75.0	1.0	76.34	-1.34					
27-Apr	23:15:00	46819.0	13.0	75.5	1.5	76.35	-0.85					
28-Apr	09:11:00	47415.0	11.3	75.0	1.0	76.38	-1.38					
28-Apr	14:24:00	47728.0	10.6	75.0	1.0	76.40	-1.40					
28-Apr	21:13:00	48137.0	9.8	75.0	1.0	76.42	-1.42					
29-Apr	10:30:00	48934.0	8.5	75.0	1.0	76.46	-1.46					
29-Apr	11:59:00	49023.0	8.4	75.0	1.0	76.46	-1.46					
29-Apr	20:31:00	49535.0	7.8	75.0	1.0	76.49	-1.49					
30-Apr	08:22:00	50246.0	7.1	75.0	1.0	76.53	-1.53					
30-Apr	20:36:00	50980.0	6.6	74.5	0.5	76.56	-2.06					
01-May	08:35:00	51699.0	6.1	74.5	0.5	76.60	-2.10					
01-May	20:58:00	52442.0	5.7	75.0	1.0	76.64	-1.64					
02-May	08:55:00	53159.0	5.3	75.0	1.0	76.67	-1.67					
02-May	17:39:00	53683.0	5.1	74.5	0.5	76.70	-2.20					
03-May	10:33:00	54697.0	4.8	75.0	1.0	76.75	-1.75					
03-May	20:23:00	55287.0	4.6	75.0	1.0	76.78	-1.78					
04-May	09:18:00	56062.0	4.4	75.0	1.0	76.82	-1.82					
04-May	20:56:00	56760.0	4.2	74.5	0.5	76.85	-2.35					
05-May	08:56:00	57480.0	4.0	74.5	0.5	76.89	-2.39					
05-May	19:58:00	58142.0	3.9	74.5	0.5	76.92	-2.42					
06-May	08:39:00	58903.0	3.8	74.5	0.5	76.96	-2.46					

EICHHORN WELL

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *EICHHORN* PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *BK PROBE* STATIC WATER LEVEL (FT BMP): *61.40*

DIST. FROM PUMPED WELL: *600 FEET* COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t'	WATER LEVEL DATA: READING REFERENCE	READING MEASURE	DEPTH TO WATER (FT)	DRAW DOWN (FT)	ADJUSTED WATER LEVEL (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
20-Mar	10:00	-8696				60.18	60.18	60.10	0.08	
22-Mar	15:30	-5486				60.22	60.22	60.62	-0.40	
23-Mar	16:10	-4006				61.22	61.22	60.86	0.36	
25-Mar	17:20	-1056				61.39	61.39	61.33	0.06	
26-Mar	10:29	-27				61.40	61.40	61.50	-0.10	
26-Mar	11:02	6				61.33	61.33	61.50	-0.17	
26-Mar	11:04	8				61.38	61.38	61.50	-0.13	
26-Mar	11:06	10				61.38	61.38	61.50	-0.13	
26-Mar	11:08	12				61.38	61.38	61.50	-0.13	
26-Mar	11:10	14				61.38	61.38	61.51	-0.13	
26-Mar	11:12	16				61.42	61.42	61.51	-0.09	
26-Mar	11:14	18				61.42	61.42	61.51	-0.09	
26-Mar	11:16	20				61.42	61.42	61.51	-0.09	
26-Mar	11:18	22				61.42	61.42	61.51	-0.09	
26-Mar	11:20	24				61.42	61.42	61.51	-0.09	
26-Mar	11:22	26				61.42	61.42	61.51	-0.09	
26-Mar	11:24	28				61.42	61.42	61.51	-0.09	
26-Mar	11:26	30				61.42	61.42	61.51	-0.09	
26-Mar	11:28	32				61.42	61.42	61.51	-0.09	
26-Mar	11:30	34				61.42	61.42	61.51	-0.09	
26-Mar	11:32	36				61.42	61.42	61.51	-0.09	
26-Mar	11:35	39				61.42	61.42	61.51	-0.09	
26-Mar	11:40	44				61.42	61.42	61.51	-0.09	
26-Mar	11:45	49				61.42	61.42	61.51	-0.09	
26-Mar	11:50	54				61.42	61.42	61.51	-0.10	
26-Mar	11:55	59				61.42	61.42	61.51	-0.10	
26-Mar	12:00	64				61.42	61.42	61.51	-0.10	
26-Mar	12:05	69				61.42	61.42	61.51	-0.10	
26-Mar	12:10	74				61.42	61.42	61.51	-0.10	
26-Mar	12:15	79				61.42	61.42	61.52	-0.10	
26-Mar	12:20	84				61.42	61.42	61.52	-0.10	
26-Mar	12:25	89				61.42	61.42	61.52	-0.10	
26-Mar	12:30	94				61.42	61.42	61.52	-0.10	
26-Mar	12:35	99				61.42	61.42	61.52	-0.10	
26-Mar	12:40	104				61.42	61.42	61.52	-0.10	
26-Mar	12:45	109				61.42	61.42	61.52	-0.10	
26-Mar	13:00	124				61.42	61.42	61.52	-0.11	
26-Mar	13:17	141				61.42	61.42	61.53	-0.11	Last reading by Rob Whitney, IDWR
26-Mar	14:05	189				61.44	61.44	61.53	-0.09	
26-Mar	15:09	253				61.44	61.44	61.54	-0.10	
26-Mar	16:20	324				61.46	61.46	61.56	-0.10	
26-Mar	17:00	364				61.46	61.46	61.56	-0.10	
26-Mar	18:05	429				61.48	61.48	61.57	-0.09	
26-Mar	19:15	499				61.49	61.49	61.58	-0.09	
26-Mar	20:05	549				61.51	61.51	61.59	-0.08	
26-Mar	21:05	609				61.52	61.52	61.60	-0.08	
26-Mar	22:10	674				61.54	61.54	61.61	-0.07	

Regression Output:

Constant	61.50
Std Err of Y Est	0.32
R Squared	0.80
No. of Observations	5.00
Degrees of Freedom	3.00
X Coefficient(s)	0.000161
Std Err of Coef.	0.000046

X	Y
-8696	60.18
-5486	60.22
-4006	61.22
-1056	61.39
-27	61.40

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *EICHHORN* PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *BK PROBE* STATIC WATER LEVEL (FT BMP): *61.40*

DIST. FROM PUMPED WELL: *600 FEET* COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t'	WATER LEVEL DATA: READING REFERENCE	READING MEASURE	DEPTH TO WATER (FT)	DRAW DOWN (FT)	ADJUSTED WATER LEVEL (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
27-Mar	08:40	1304				61.66	61.66	61.71	-0.05	
27-Mar	09:22	1346				61.66	61.66	61.72	-0.06	
27-Mar	12:22	1526				61.69	61.69	61.75	-0.06	
27-Mar	18:15	1879				61.72	61.72	61.81	-0.09	
27-Mar	23:35	2199				61.70	61.70	61.86	-0.16	
28-Mar	08:40	2744				61.46	61.46	61.95	-0.49	
28-Mar	01:02	2286				61.22	61.22	61.87	-0.65	
28-Mar	18:24	3328				60.96	60.96	62.04	-1.08	
28-Mar	23:08	3612				60.82	60.82	62.09	-1.27	
29-Mar	09:16	4220				60.56	60.56	62.18	-1.62	
29-Mar	13:59	4503				60.46	60.46	62.23	-1.77	
29-Mar	18:28	4772				60.40	60.40	62.27	-1.87	
29-Mar	23:43	5087				60.34	60.34	62.32	-1.98	
30-Mar	08:06	5590				60.24	60.24	62.40	-2.16	
30-Mar	13:32	5916				60.18	60.18	62.46	-2.28	
30-Mar	18:51	6235				60.14	60.14	62.51	-2.37	
30-Mar	23:00	6484				60.14	60.14	62.55	-2.41	
31-Mar	08:39	7063				60.04	60.04	62.64	-2.60	
31-Mar	14:24	7408				60.00	60.00	62.70	-2.70	
31-Mar	23:40	7964				59.92	59.92	62.79	-2.87	
01-Apr	09:02	8526				59.88	59.88	62.88	-3.00	
01-Apr	15:54	8938				59.81	59.81	62.94	-3.13	
01-Apr	22:31	9335				59.76	59.76	63.01	-3.25	
02-Apr	07:53	9897				59.72	59.72	63.10	-3.38	
02-Apr	14:53	10317				59.68	59.68	63.17	-3.49	
02-Apr	22:28	10772				59.68	59.68	63.24	-3.56	
03-Apr	08:33	11377				59.60	59.60	63.34	-3.74	
03-Apr	14:26	11730				59.54	59.54	63.39	-3.85	
03-Apr	20:35	12099				59.50	59.50	63.45	-3.95	
04-Apr	08:31	12815				59.42	59.42	63.57	-4.15	
04-Apr	14:49	13193				59.36	59.36	63.63	-4.27	
04-Apr	22:52	13676				59.34	59.34	63.71	-4.37	
05-Apr	09:32	14316				59.30	59.30	63.81	-4.51	
05-Apr	16:14	14718				59.26	59.26	63.87	-4.61	
05-Apr	22:48	15112				59.24	59.24	63.94	-4.70	
06-Apr	09:34	15758				59.22	59.22	64.04	-4.82	
06-Apr	16:40	16184				59.20	59.20	64.11	-4.91	
06-Apr	22:23	16527				59.20	59.20	64.17	-4.97	Daylight savings time starts at 2 am.
07-Apr	09:55	17219				59.18	59.18	64.28	-5.10	Elapsed minutes adjusted -60 min.
07-Apr	17:03	17647				59.16	59.16	64.35	-5.19	
08-Apr	00:01	18065				59.16	59.16	64.41	-5.25	
08-Apr	09:32	18636				59.10	59.10	64.51	-5.41	
08-Apr	15:16	18980				59.12	59.12	64.56	-5.44	
08-Apr	20:32	19296				59.10	59.10	64.61	-5.51	
09-Apr	09:39	20083				59.08	59.08	64.74	-5.66	
09-Apr	16:30	20494				59.06	59.06	64.81	-5.75	
09-Apr	22:56	20880				59.06	59.06	64.87	-5.81	

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *EICHHORN* PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *BK PROBE* STATIC WATER LEVEL (FT BMP): *61.40*

DIST. FROM PUMPED WELL: *600 FEET* COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t'	WATER LEVEL DATA READING REFERENCE	READING MEASURE	DEPTH TO WATER (FT)	DRAW DOWN (FT)	ADJUSTED WATER LEVEL (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
10-Apr	09:15	21499				59.06	59.06	64.97	-5.91	
10-Apr	16:39	21943				59.06	59.06	65.04	-5.98	
10-Apr	22:13	22277				59.08	59.08	65.09	-6.01	
11-Apr	09:41	22965				59.06	59.06	65.20	-6.14	
11-Apr	16:51	23396				59.28	59.28	65.27	-5.99	
11-Apr	23:57	23821				59.54	59.54	65.34	-5.80	
12-Apr	09:56	24420				59.88	59.88	65.44	-5.56	
12-Apr	15:04	24728				60.02	60.02	65.49	-5.46	
12-Apr	21:04	25088				60.18	60.18	65.55	-5.37	
13-Apr	09:08	25812				60.40	60.40	65.66	-5.26	
13-Apr	14:22	26126				60.44	60.44	65.71	-5.27	
13-Apr	21:20	26544				60.56	60.56	65.78	-5.22	
14-Apr	08:39	27223				60.74	60.74	65.89	-5.15	
14-Apr	17:16	27740				60.82	60.82	65.97	-5.15	
14-Apr	22:20	28044				60.88	60.88	66.02	-5.14	
15-Apr	10:08	28752				61.04	61.04	66.14	-5.10	
15-Apr	16:40	29144				61.10	61.10	66.20	-5.10	
15-Apr	21:10	29414				61.12	61.12	66.24	-5.12	
16-Apr	10:04	30188				61.20	61.20	66.37	-5.17	
16-Apr	18:10	30674				61.20	61.20	66.45	-5.25	
17-Apr	01:15	31099				61.26	61.26	66.51	-5.25	
17-Apr	12:02	31746				61.30	61.30	66.62	-5.32	
17-Apr	18:03	32107				61.34	61.34	66.68	-5.34	
17-Apr	23:54	32458				61.36	61.36	66.73	-5.37	
18-Apr	10:31	33095				61.44	61.44	66.84	-5.40	
18-Apr	18:53	33597				61.49	61.49	66.92	-5.43	
18-Apr	23:36	33880				61.53	61.53	66.96	-5.43	
19-Apr	10:36	34540				61.52	61.52	67.07	-5.55	
19-Apr	15:24	34828				61.60	61.60	67.11	-5.51	
19-Apr	23:28	35312				61.60	61.60	67.19	-5.59	
20-Apr	10:05	35949				61.60	61.60	67.30	-5.70	
20-Apr	20:05	36549				61.59	61.59	67.39	-5.80	
20-Apr	23:49	36773				61.59	61.59	67.43	-5.84	
21-Apr	10:43	37427				61.60	61.60	67.53	-5.93	
21-Apr	16:40	37784				61.62	61.62	67.59	-5.97	
21-Apr	21:39	38083				61.58	61.58	67.64	-6.06	
22-Apr	09:50	38814				61.60	61.60	67.76	-6.16	
22-Apr	15:11	39135				61.58	61.58	67.81	-6.23	
22-Apr	20:45	39469				61.60	61.60	67.86	-6.26	
23-Apr	09:14	40218				61.64	61.64	67.98	-6.34	
23-Apr	17:27	40711				61.64	61.64	68.06	-6.42	
23-Apr	22:29	41013				61.66	61.66	68.11	-6.45	
24-Apr	09:18	41662				61.68	61.68	68.22	-6.54	
24-Apr	16:24	42088				61.70	61.70	68.28	-6.58	
24-Apr	22:40	42464				61.71	61.71	68.35	-6.64	
25-Apr	09:07	43091				61.76	61.76	68.45	-6.69	
25-Apr	12:07	43271	676.1			61.79	61.79	68.48	-6.69	

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *EICHHORN* PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *BK PROBE* STATIC WATER LEVEL (FT BMP): *61.40*

DIST. FROM PUMPED WELL: *600 FEET* COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA				ADJUSTED WATER LEVEL (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
				READING		DEPTH TO WATER (FT)	DRAW DOWN (FT)			
				REFERENCE	MEASURE					
25-Apr	13:13	43337	333.4			61.77	61.77	68.49	-6.72	
25-Apr	13:40	43364	276.2			61.76	61.76	68.49	-6.73	
25-Apr	14:20	43404	220.3			61.74	61.74	68.50	-6.76	
25-Apr	14:45	43429	195.6			61.72	61.72	68.50	-6.78	
25-Apr	15:50	43494	151.5			61.72	61.72	68.51	-6.79	
25-Apr	16:48	43552	126.2			61.70	61.70	68.52	-6.82	
25-Apr	18:40	43664	95.5			61.66	61.66	68.54	-6.88	
25-Apr	20:00	43744	81.5			61.64	61.64	68.55	-6.91	
25-Apr	21:15	43819	71.6			61.63	61.63	68.56	-6.93	
25-Apr	23:36	43960	58.4			61.60	61.60	68.59	-6.99	
26-Apr	07:52	44456	35.6			61.52	61.52	68.67	-7.15	
26-Apr	13:38	44802	28.1			61.49	61.49	68.72	-7.23	
26-Apr	17:18	45022	24.8			61.46	61.46	68.76	-7.30	
26-Apr	21:32	45276	21.9			61.44	61.44	68.80	-7.36	
27-Apr	00:39	45463	20.2			61.42	61.42	68.83	-7.41	
27-Apr	07:29	45873	17.2			61.38	61.38	68.89	-7.51	
27-Apr	11:26	46110	15.9			61.36	61.36	68.93	-7.57	
27-Apr	18:39	46543	14.0			61.31	61.31	69.00	-7.69	
27-Apr	23:08	46812	13.0			61.29	61.29	69.05	-7.76	
28-Apr	09:05	47409	11.3			61.24	61.24	69.14	-7.90	
28-Apr	14:18	47722	10.6			61.19	61.19	69.19	-8.00	
28-Apr	21:06	48130	9.8			61.12	61.12	69.26	-8.14	
29-Apr	10:25	48929	8.6			61.10	61.10	69.39	-8.29	
29-Apr	20:16	49520	7.8			61.04	61.04	69.48	-8.44	
30-Apr	08:14	50238	7.1			61.00	61.00	69.60	-8.60	
30-Apr	20:30	50974	6.6			60.94	60.94	69.72	-8.78	
01-May	08:27	51691	6.1			60.90	60.90	69.83	-8.93	
01-May	20:52	52436	5.7			60.84	60.84	69.95	-9.11	
02-May	08:47	53151	5.3			60.78	60.78	70.07	-9.29	
02-May	17:32	53676	5.1			60.72	60.72	70.15	-9.43	
03-May	10:40	54704	4.8			60.60	60.60	70.32	-9.72	
03-May	20:16	55280	4.6			60.66	60.66	70.41	-9.75	
04-May	09:07	56051	4.4			60.62	60.62	70.53	-9.91	
04-May	20:49	56753	4.2			60.60	60.60	70.65	-10.05	
05-May	08:49	57473	4.0			60.54	60.54	70.76	-10.22	
05-May	19:53	58137	3.9			60.46	60.46	70.87	-10.41	
06-May	08:30	58894	3.8			60.36	60.36	70.99	-10.63	

HOLGATE WELL

CH2M HILL PUMPING TEST REPORT

PROJECT NO: BOI 31684.A1

WELL NO: HOLGATE — PUMPING / OBSERVATION WELL
TYPE OF DATA: DRAWDOWN
PUMPED WELL NO: PW RADIUS: 14"(28"HOLE) — M.P. FOR WL'S: TOP OF CASING ELEV.:
PUMPING RATES: 750.0 Gallons per minute — PUMP ON: DATE 26-Mar-91 TIME 10:56:00
HOW Q MEASURED: FLOWMETER — PUMP OFF: DATE 25-Apr-91 TIME 11:03:00
HOW WL's MEASURED: BK PROBE — STATIC WATER LEVEL (FT BMP): 68.58
DIST. FROM PUMPED WELL: 900 FEET — COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA: DEPTH TO WATER (FT)	DRAW DOWN (FT)	ADJUSTED DEPTH TO WATER (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
19-Mar	14:00	-9896		68.14	-0.44	68.14	0.00	
22-Mar	15:35	-5481		68.38	-0.20	68.36	0.02	
23-Mar	16:00	-4016		68.39	-0.19	68.43	-0.04	
25-Mar	17:15	-1061		70.02	1.44	68.58	1.44	PUMP ON
26-Mar	10:41	-15		68.70	0.12	68.63	0.07	
26-Mar	10:53	-3		68.58	0.00	68.63	-0.05	
26-Mar	11:05	9		68.66	0.08	68.63	0.03	
26-Mar	11:21	25		69.01	0.43	68.63	0.38	
26-Mar	11:34	38		69.28	0.70	68.64	0.64	
26-Mar	11:45	49		69.44	0.86	68.64	0.80	
26-Mar	11:47	51		69.44	0.86	68.64	0.80	
26-Mar	11:50	54		69.44	0.86	68.64	0.80	
26-Mar	11:52	56		69.44	0.86	68.64	0.80	
26-Mar	11:54	58		69.44	0.86	68.64	0.80	
26-Mar	12:10	74		69.60	1.02	68.64	0.96	
26-Mar	12:24	88		69.60	1.02	68.64	0.96	
26-Mar	12:49	113		69.66	1.08	68.64	1.02	
26-Mar	12:52	116		69.66	1.08	68.64	1.02	
26-Mar	13:22	146		69.70	1.12	68.64	1.06	
26-Mar	13:26	150		69.70	1.12	68.64	1.06	
26-Mar	13:52	176		69.96	1.38	68.64	1.32	
26-Mar	14:24	208		69.80	1.22	68.64	1.16	
26-Mar	15:03	247		69.90	1.32	68.65	1.25	
26-Mar	15:08	252		69.86	1.28	68.65	1.21	
26-Mar	15:35	279		69.80	1.22	68.65	1.15	
26-Mar	15:58	302		69.85	1.27	68.65	1.20	
26-Mar	16:28	332		69.87	1.29	68.65	1.22	
26-Mar	17:07	371		69.94	1.36	68.65	1.29	
26-Mar	18:25	449		69.94	1.36	68.66	1.28	
26-Mar	19:30	514		69.96	1.38	68.66	1.30	
26-Mar	20:25	569		69.96	1.38	68.66	1.30	
26-Mar	21:20	624		69.98	1.40	68.66	1.32	
26-Mar	22:25	689		70.01	1.43	68.67	1.34	
27-Mar	09:41	1365		70.18	1.60	68.70	1.48	
27-Mar	12:40	1544		70.20	1.62	68.71	1.49	
27-Mar	18:26	1890		70.24	1.66	68.73	1.51	
27-Mar	23:43	2207		70.32	1.74	68.74	1.58	
28-Mar	08:52	2756		70.40	1.82	68.77	1.63	
28-Mar	13:23	3027		70.46	1.88	68.79	1.67	
28-Mar	18:32	3336		70.52	1.94	68.80	1.72	
28-Mar	23:15	3619		70.52	1.94	68.82	1.70	
29-Mar	10:03	4267		70.70	2.12	68.85	1.85	
29-Mar	14:30	4534		70.68	2.10	68.86	1.82	
29-Mar	18:45	4789		70.70	2.12	68.87	1.83	

PRETEST WATER LEVEL TREND

Regression Output:

Constant	68.63	
Std Err of Y Est	0.06	
R Squared	0.95	
No. of Observations	5.00	
Degrees of Freedom	3.00	
X Coefficient(s)		0.000050
Std Err of Coef.		0.000007

X	Y
-9896.00	68.14
-5481.00	68.38
-4016.00	68.39
-15.00	68.70
-3.00	68.58

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *HOLGATE* — PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* — M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* — PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* — PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *BK PROBE* — STATIC WATER LEVEL (FT BMP): *68.58*

DIST. FROM PUMPED WELL: *900 FEET* — COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA: DEPTH TO WATER (FT)	DRAW DOWN (FT)	ADJUSTED DEPTH TO WATER (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
29-Mar	23:53	5097		70.76	2.18	68.89	1.87	
30-Mar	09:07	5651		70.82	2.24	68.92	1.90	
30-Mar	13:38	5922		70.82	2.24	68.93	1.89	
30-Mar	18:58	6242		70.88	2.30	68.95	1.93	
30-Mar	23:07	6491		70.96	2.38	68.96	2.00	
31-Mar	08:45	7069		71.00	2.42	68.99	2.01	
31-Mar	14:35	7419		71.02	2.44	69.01	2.01	
31-Mar	23:46	7970		71.08	2.50	69.03	2.05	
01-Apr	09:30	8554		71.18	2.60	69.06	2.12	
01-Apr	16:14	8958		71.14	2.56	69.08	2.06	
01-Apr	22:38	9342		70.30	1.72	69.10	1.20	
02-Apr	08:01	9905		71.20	2.62	69.13	2.07	
02-Apr	14:59	10323		71.24	2.66	69.15	2.09	
02-Apr	22:34	10778		71.26	2.68	69.17	2.09	
03-Apr	08:50	11394		71.32	2.74	69.21	2.11	
03-Apr	15:11	11775		71.34	2.76	69.22	2.12	
03-Apr	20:40	12104		71.36	2.78	69.24	2.12	
04-Apr	08:36	12820		71.38	2.80	69.28	2.10	
04-Apr	15:04	13208		71.40	2.82	69.30	2.10	
04-Apr	22:59	13683		71.42	2.84	69.32	2.10	
05-Apr	09:47	14331		71.48	2.90	69.35	2.13	
05-Apr	16:26	14730		71.50	2.92	69.37	2.13	
05-Apr	23:02	15126		71.50	2.92	69.39	2.11	
06-Apr	09:55	15779		71.54	2.96	69.43	2.11	
06-Apr	16:55	16199		71.56	2.98	69.45	2.11	
06-Apr	22:33	16537		71.56	2.98	69.46	2.10	Daylight savings time begins at 2 am.
07-Apr	10:14	17178		71.62	3.04	69.50	2.12	Elapsed times adjusted -60 min.
07-Apr	17:17	17601		71.62	3.04	69.52	2.10	
08-Apr	00:10	18014		71.62	3.04	69.54	2.08	
08-Apr	09:53	18597		71.72	3.14	69.57	2.15	
08-Apr	15:47	18951		71.66	3.08	69.59	2.07	
08-Apr	20:40	19244		71.64	3.06	69.60	2.04	
09-Apr	09:45	20029		71.74	3.16	69.64	2.10	
09-Apr	16:53	20457		71.72	3.14	69.66	2.06	
09-Apr	23:11	20835		71.74	3.16	69.68	2.06	
10-Apr	09:45	21469		71.78	3.20	69.71	2.07	
10-Apr	16:43	21887		71.80	3.22	69.73	2.07	
10-Apr	22:20	22224		71.80	3.22	69.75	2.05	
11-Apr	09:58	22922		71.80	3.22	69.79	2.01	
11-Apr	16:59	23343		71.82	3.24	69.81	2.01	
12-Apr	00:05	23769		71.82	3.24	69.83	1.99	
12-Apr	10:10	24374		71.88	3.30	69.86	2.02	
12-Apr	15:13	24677		71.84	3.26	69.87	1.97	
12-Apr	21:11	25035		71.92	3.34	69.89	2.03	

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *HOLGATE* PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *BK PROBE* STATIC WATER LEVEL (FT BMP): *68.58*

DIST. FROM PUMPED WELL: *900 FEET* COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA: DEPTH TO WATER (FT)	DRAW DOWN (FT)	ADJUSTED DEPTH TO WATER (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
13-Apr	09:15	25759		71.92	3.34	69.93	1.99	
13-Apr	14:30	26074		72.00	3.42	69.94	2.06	
13-Apr	21:35	26499		72.00	3.42	69.97	2.03	
14-Apr	08:47	27171		71.98	3.40	70.00	1.98	
14-Apr	17:23	27687		71.98	3.40	70.02	1.96	
14-Apr	22:26	27990		72.00	3.42	70.04	1.96	
15-Apr	10:15	28699		72.10	3.52	70.08	2.02	
15-Apr	16:46	29090		72.20	3.62	70.10	2.10	
15-Apr	21:28	29372		72.06	3.48	70.11	1.95	
16-Apr	10:11	30135		72.14	3.56	70.15	1.99	
16-Apr	18:28	30632		72.14	3.56	70.17	1.97	
17-Apr	01:30	31054		72.20	3.62	70.19	2.01	
17-Apr	12:22	31706		72.15	3.57	70.23	1.92	
17-Apr	18:20	32064		72.16	3.58	70.24	1.92	
18-Apr	00:11	32415		72.14	3.56	70.26	1.88	
18-Apr	10:43	33047		72.18	3.60	70.29	1.89	
18-Apr	19:32	33576		72.18	3.60	70.32	1.86	
18-Apr	23:47	33831		72.20	3.62	70.33	1.87	
19-Apr	10:45	34489		72.28	3.70	70.37	1.91	
19-Apr	15:40	34784		72.24	3.66	70.38	1.86	
19-Apr	23:38	35262		72.24	3.66	70.41	1.83	
20-Apr	10:20	35904		72.30	3.72	70.44	1.86	
20-Apr	20:18	36502		72.26	3.68	70.47	1.79	
20-Apr	23:59	36723		72.29	3.71	70.48	1.81	
21-Apr	10:58	37382		72.39	3.81	70.51	1.87	
21-Apr	16:49	37733		72.29	3.71	70.53	1.76	
21-Apr	21:54	38038		72.32	3.74	70.55	1.77	
22-Apr	10:17	38781		72.36	3.78	70.58	1.78	
22-Apr	15:26	39090		72.34	3.76	70.60	1.74	
22-Apr	20:59	39423		72.39	3.81	70.61	1.78	
23-Apr	09:28	40172		72.36	3.78	70.65	1.71	
23-Apr	17:42	40666		72.36	3.78	70.68	1.68	
23-Apr	22:39	40963		72.38	3.80	70.69	1.69	
24-Apr	09:40	41624		72.40	3.82	70.73	1.67	
24-Apr	16:40	42044		72.42	3.84	70.75	1.67	
24-Apr	22:50	42414		72.40	3.82	70.77	1.63	
25-Apr	09:32	43056		72.43	3.85	70.80	1.63	
25-Apr	11:02	43146		72.42	3.84	70.80	1.62	
25-Apr	11:05	43149	21574.5	72.40	3.82	70.80	1.60	
25-Apr	11:08	43152	8630.4	72.38	3.80	70.80	1.58	
25-Apr	11:10	43154	6164.9	72.34	3.76	70.80	1.54	
25-Apr	11:12	43156	4795.1	72.28	3.70	70.80	1.48	
25-Apr	11:14	43158	3923.5	72.24	3.66	70.80	1.44	
25-Apr	11:16	43160	3320.0	72.20	3.62	70.80	1.40	

CH2M HILL *PUMPING TEST REPORT*

PROJECT NO: BOI 31684.A1

WELL NO: *HOLGATE* — PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* — M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* — PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* — PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *BK PROBE* — STATIC WATER LEVEL (FT BMP): *68.58*

DIST. FROM PUMPED WELL: *900 FEET* — COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA: DEPTH TO WATER (FT)	DRAW DOWN (FT)	ADJUSTED DEPTH TO WATER (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
25-Apr	11:18	43162	2877.5	72.14	3.56	70.80	1.34	
25-Apr	11:20	43164	2539.1	72.08	3.50	70.80	1.28	
25-Apr	11:22	43166	2271.9	72.04	3.46	70.80	1.24	
25-Apr	11:24	43168	2055.6	71.98	3.40	70.80	1.18	
25-Apr	11:26	43170	1877.0	71.95	3.37	70.80	1.15	
25-Apr	11:28	43172	1726.9	71.92	3.34	70.80	1.12	
25-Apr	11:30	43174	1599.0	71.88	3.30	70.80	1.08	
25-Apr	11:32	43176	1488.8	71.84	3.26	70.80	1.04	
25-Apr	11:34	43178	1392.8	71.80	3.22	70.80	1.00	
25-Apr	11:36	43180	1308.5	71.76	3.18	70.80	0.96	
25-Apr	11:37	43181	1270.0	71.74	3.16	70.80	0.94	
25-Apr	11:40	43184	1167.1	71.72	3.14	70.80	0.92	
25-Apr	11:42	43186	1107.3	71.70	3.12	70.80	0.90	
25-Apr	11:44	43188	1053.4	71.66	3.08	70.80	0.86	
25-Apr	11:48	43192	959.8	71.62	3.04	70.80	0.82	
25-Apr	11:50	43194	919.0	71.60	3.02	70.80	0.80	
25-Apr	11:52	43196	881.6	71.58	3.00	70.80	0.78	
25-Apr	11:54	43198	847.0	71.54	2.96	70.80	0.74	
25-Apr	11:56	43200	815.1	71.53	2.95	70.80	0.73	
25-Apr	11:58	43202	785.5	71.52	2.94	70.80	0.72	
25-Apr	12:00	43204	758.0	71.50	2.92	70.80	0.70	
25-Apr	12:02	43206	732.3	71.49	2.91	70.80	0.69	
25-Apr	12:10	43214	645.0	71.43	2.85	70.81	0.62	
25-Apr	12:15	43219	600.3	71.40	2.82	70.81	0.59	
25-Apr	12:20	43224	561.4	71.38	2.80	70.81	0.57	
25-Apr	12:25	43229	527.2	71.35	2.77	70.81	0.54	
25-Apr	12:30	43234	496.9	71.33	2.75	70.81	0.52	
25-Apr	12:35	43239	470.0	71.31	2.73	70.81	0.50	
25-Apr	12:40	43244	445.8	71.30	2.72	70.81	0.49	
25-Apr	12:50	43254	404.2	71.26	2.68	70.81	0.45	
25-Apr	13:00	43264	369.8	71.23	2.65	70.81	0.42	
25-Apr	13:10	43274	340.7	71.20	2.62	70.81	0.39	
25-Apr	13:20	43284	315.9	71.18	2.60	70.81	0.37	
25-Apr	13:50	43314	259.4	71.12	2.54	70.81	0.31	
25-Apr	14:20	43344	220.0	71.08	2.50	70.81	0.27	
25-Apr	14:58	43382	184.6	71.05	2.47	70.81	0.24	
25-Apr	15:45	43429	154.0	71.02	2.44	70.82	0.20	
25-Apr	16:15	43459	139.3	71.00	2.42	70.82	0.18	
25-Apr	17:05	43509	120.2	70.95	2.37	70.82	0.13	
25-Apr	18:37	43601	96.0	70.92	2.34	70.82	0.10	
25-Apr	19:50	43674	82.9	70.88	2.30	70.83	0.05	
25-Apr	21:25	43769	70.4	70.85	2.27	70.83	0.02	
26-Apr	00:01	43925	56.5	70.80	2.22	70.84	-0.04	
26-Apr	08:25	44429	34.7	70.68	2.10	70.87	-0.19	

CH2M HILL PUMPING TEST REPORT

PROJECT NO: BOI 31684.A1

WELL NO: HOLGATE — PUMPING / OBSERVATION WELL

TYPE OF DATA: DRAWDOWN

PUMPED WELL NO: PW — RADIUS: 14"(28"HOLE) — M.P. FOR WL'S: TOP OF CASING — ELEV.:

PUMPING RATES: 750.0 Gallons per minute — PUMP ON: DATE 26-Mar-91 TIME 10:56:00

HOW Q MEASURED: FLOWMETER — PUMP OFF: DATE 25-Apr-91 TIME 11:03:00

HOW WL's MEASURED: BK PROBE — STATIC WATER LEVEL (FT BMP): 68.58

DIST. FROM PUMPED WELL: 900 FEET — COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA: DEPTH TO WATER (FT)	DRAW DOWN (FT)	ADJUSTED DEPTH TO WATER (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
26-Apr	13:50	44754	27.8	70.63	2.05	70.88	-0.25	
26-Apr	17:39	44983	24.5	70.56	1.98	70.89	-0.33	
26-Apr	21:58	45242	21.6	70.54	1.96	70.91	-0.37	
27-Apr	01:04	45428	19.9	70.50	1.92	70.92	-0.42	
27-Apr	07:51	45835	17.1	70.44	1.86	70.94	-0.50	
27-Apr	12:00	46084	15.7	70.41	1.83	70.95	-0.54	
27-Apr	19:12	46516	13.8	70.35	1.77	70.97	-0.62	
27-Apr	23:28	46772	12.9	70.32	1.74	70.98	-0.66	
28-Apr	09:28	47372	11.2	70.24	1.66	71.01	-0.77	
28-Apr	14:45	47689	10.5	70.19	1.61	71.03	-0.84	
28-Apr	21:29	48093	9.7	70.13	1.55	71.05	-0.92	
29-Apr	10:49	48893	8.5	70.07	1.49	71.09	-1.02	
29-Apr	20:47	49491	7.8	70.02	1.44	71.12	-1.10	
30-Apr	08:42	50206	7.1	69.96	1.38	71.16	-1.20	
30-Apr	20:52	50936	6.5	69.89	1.31	71.19	-1.30	
01-May	09:02	51666	6.1	69.82	1.24	71.23	-1.41	
01-May	21:22	52406	5.7	69.78	1.20	71.27	-1.49	
02-May	09:14	53118	5.3	69.70	1.12	71.30	-1.60	
02-May	17:59	53643	5.1	69.67	1.09	71.33	-1.66	
03-May	10:25	54629	4.8	69.61	1.03	71.38	-1.77	
03-May	20:45	55249	4.6	69.58	1.00	71.41	-1.83	
04-May	09:48	56032	4.3	69.54	0.96	71.45	-1.91	
04-May	21:21	56725	4.2	69.50	0.92	71.48	-1.98	
05-May	09:17	57441	4.0	69.47	0.89	71.52	-2.05	
05-May	20:14	58098	3.9	69.44	0.86	71.55	-2.11	

CARSON WELL

CH2M HILL PUMPING TEST REPORT

PROJECT NO: BOI 31684.A1

WELL NO: HARLEY CARSON — PUMPING / OBSERVATION WELL
TYPE OF DATA: DRAWDOWN
PUMPED WELL NO: PW — RADIUS: 14"(28"HOLE) — M.P. FOR WL'S: TOP OF CASING — ELEV.:
PUMPING RATES: 750.0 Gallons per minute — PUMP ON: DATE 26-Mar-91 TIME 10:56:00
HOW Q MEASURED: FLOWMETER — PUMP OFF: DATE 25-Apr-91 TIME 11:03:00
HOW WL's MEASURED: BK PROBE — STATIC WATER LEVEL (FT BMP): 62.48
DIST. FROM PUMPED WELL: 1,300 FEET — COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA: READING REFERENCE	READING MEASURE	DEPTH TO WATER (FT)	DRAW DOWN (FT)	ADJUSTED WATER LEVEL (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
12-Mar	15:02	-19914				61.67	-0.81	61.76	-0.09	
14-Mar	14:00	-17096				61.87	-0.61	61.86	0.01	
14-Mar	17:30	-16886				61.92	-0.56	61.87	0.05	
15-Mar	12:15	-15761				61.94	-0.54	61.91	0.03	
18-Mar	12:54	-11402				62.10	-0.38	62.07	0.03	
22-Mar	15:08	-5508				62.30	-0.18	62.30	0.00	
23-Mar	15:45	-4031				62.34	-0.14	62.35	-0.01	
25-Mar	17:00	-1076				62.46	-0.02	62.46	-0.00	
26-Mar	10:35	-21				62.48	0.00	62.50	-0.02	
26-Mar	11:58	62				62.46	-0.02	62.50	-0.04	
26-Mar	12:18	82				62.48	0.00	62.50	-0.02	
26-Mar	12:37	101				62.50	0.02	62.50	-0.00	
26-Mar	13:13	137				62.50	0.02	62.51	-0.01	
26-Mar	13:31	155				62.50	0.02	62.51	-0.01	
26-Mar	13:44	168				62.50	0.02	62.51	-0.01	
26-Mar	14:38	222				62.52	0.04	62.51	0.01	
26-Mar	15:15	259				62.52	0.04	62.51	0.01	
26-Mar	15:43	287				62.52	0.04	62.51	0.01	
26-Mar	16:10	314				62.54	0.06	62.51	0.03	
26-Mar	16:37	341				62.54	0.06	62.51	0.03	
26-Mar	17:20	384				62.56	0.08	62.52	0.04	
26-Mar	18:00	424				62.57	0.09	62.52	0.05	
26-Mar	20:10	554				62.53	0.05	62.52	0.01	
26-Mar	21:10	614				62.60	0.12	62.52	0.08	
26-Mar	22:15	679				62.61	0.13	62.53	0.08	
27-Mar	09:46	1370				62.70	0.22	62.55	0.15	
27-Mar	12:44	1548				62.72	0.24	62.56	0.16	
27-Mar	18:36	1900				62.76	0.28	62.57	0.19	
27-Mar	23:49	2213				62.78	0.30	62.58	0.20	
28-Mar	09:02	2766				62.88	0.40	62.60	0.28	
28-Mar	13:31	3035				62.90	0.42	62.61	0.29	
28-Mar	18:42	3346				62.94	0.46	62.63	0.31	
28-Mar	23:25	3629				63.00	0.52	62.64	0.36	
29-Mar	10:10	4274				63.04	0.56	62.66	0.38	
29-Mar	14:15	4519				63.08	0.60	62.67	0.41	
29-Mar	18:52	4796				63.10	0.62	62.68	0.42	
30-Mar	00:00	5104				63.12	0.64	62.69	0.43	
30-Mar	09:13	5657				63.20	0.72	62.71	0.49	
30-Mar	13:43	5927				63.22	0.74	62.72	0.50	
30-Mar	19:03	6247				63.26	0.78	62.73	0.53	
30-Mar	23:12	6496				63.28	0.80	62.74	0.54	
31-Mar	08:51	7075				63.34	0.86	62.77	0.57	
31-Mar	14:39	7423				63.36	0.88	62.78	0.58	
31-Mar	23:52	7976				63.42	0.94	62.80	0.62	
01-Apr	09:59	8583				63.48	1.00	62.82	0.66	
01-Apr	16:25	8969				63.50	1.02	62.84	0.66	
01-Apr	22:43	9347				63.52	1.04	62.85	0.67	

Regression Output:

Constant		62.50
Std Err of Y Est		0.04
R Squared		0.98
No. of Observations		9.00
Degrees of Freedom		7.00
X Coefficient(s)		0.000037
Std Err of Coef.		0.000002

-19914	19914	61.67
-17096	17096	61.87
-16886	16886	61.92
-15761	15761	61.94
-11402	11402	62.10
-5508	5508	62.30
-4031	4031	62.34
-1076	1076	62.46
-21	21	62.48

CH2M HILL PUMPING TEST REPORT

PROJECT NO: BOI 31684.A1

WELL NO: HARLEY CARSON — PUMPING / OBSERVATION WELL
TYPE OF DATA: DRAWDOWN
PUMPED WELL NO: PW RADIUS: 14"(28"HOLE) — M.P. FOR WL'S: TOP OF CASING ELEV.:
PUMPING RATES: 750.0 Gallons per minute — PUMP ON: DATE 26-Mar-91 TIME 10:56:00
HOW Q MEASURED: FLOWMETER — PUMP OFF: DATE 25-Apr-91 TIME 11:03:00
HOW WL's MEASURED: BK PROBE — STATIC WATER LEVEL (FT BMP): 62.48
DIST. FROM PUMPED WELL: 1,300 FEET — COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA: READING REFERENCE	READING MEASURE	DEPTH TO WATER (FT)	DRAW DOWN (FT)	ADJUSTED WATER LEVEL (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
02-Apr	08:09	9913				63.58	1.10	62.87	0.71	
02-Apr	15:04	10328				63.62	1.14	62.89	0.73	
02-Apr	22:40	10784				63.66	1.18	62.90	0.76	
03-Apr	08:54	11398				63.70	1.22	62.93	0.77	
03-Apr	15:18	11782				63.74	1.26	62.94	0.80	
03-Apr	20:44	12108				63.76	1.28	62.95	0.81	
04-Apr	08:41	12825				63.80	1.32	62.98	0.82	
04-Apr	15:25	13229				63.82	1.34	63.00	0.82	
04-Apr	23:06	13690				63.85	1.37	63.01	0.84	
05-Apr	09:54	14338				63.90	1.42	63.04	0.86	
05-Apr	16:30	14734				63.92	1.44	63.05	0.87	
05-Apr	23:09	15133				63.96	1.48	63.07	0.89	
06-Apr	10:01	15785				63.99	1.51	63.09	0.90	
06-Apr	17:02	16206				64.20	1.72	63.11	1.09	
06-Apr	22:40	16544				64.40	1.92	63.12	1.28	Daylight savings time starts at 2 am.
07-Apr	10:23	17187				64.08	1.60	63.14	0.94	Elapsed minutes adjusted -60 min.
07-Apr	17:23	17607				64.10	1.62	63.16	0.94	
08-Apr	00:13	18017				64.12	1.64	63.17	0.95	
08-Apr	09:58	18602				64.14	1.66	63.20	0.94	
08-Apr	15:54	18958				64.16	1.68	63.21	0.95	
08-Apr	20:46	19250				64.18	1.70	63.22	0.96	
09-Apr	09:49	20033				64.22	1.74	63.25	0.97	
09-Apr	16:59	20463				64.24	1.76	63.27	0.97	
09-Apr	23:18	20842				64.26	1.78	63.28	0.98	
10-Apr	09:53	21477				64.28	1.80	63.30	0.98	
10-Apr	16:49	21893				64.30	1.82	63.32	0.98	
10-Apr	22:25	22229				64.31	1.83	63.33	0.98	
11-Apr	10:04	22928				64.34	1.86	63.36	0.98	
11-Apr	17:05	23349				64.35	1.87	63.37	0.98	
12-Apr	00:09	23773				64.36	1.88	63.39	0.97	
12-Apr	10:16	24380				64.38	1.90	63.41	0.97	
12-Apr	15:18	24682				64.40	1.92	63.42	0.98	
12-Apr	21:15	25039				64.44	1.96	63.44	1.00	
13-Apr	09:20	25764				64.45	1.97	63.46	0.99	
13-Apr	14:35	26079				64.46	1.98	63.48	0.98	
13-Apr	21:41	26505				64.48	2.00	63.49	0.99	
14-Apr	08:53	27177				64.50	2.02	63.52	0.98	
14-Apr	17:26	27690				64.50	2.02	63.54	0.96	
14-Apr	22:33	27997				64.53	2.05	63.55	0.98	
15-Apr	10:19	28703				64.56	2.08	63.57	0.99	
15-Apr	16:50	29094				64.56	2.08	63.59	0.97	
15-Apr	21:33	29377				64.58	2.10	63.60	0.98	
16-Apr	10:16	30140				64.62	2.14	63.63	0.99	
16-Apr	18:32	30636				64.62	2.14	63.65	0.97	
17-Apr	01:35	31059				64.64	2.16	63.66	0.98	
17-Apr	12:29	31713				64.66	2.18	63.69	0.97	
17-Apr	19:08	32112				64.66	2.18	63.70	0.96	

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *HARLEY CARSON* PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *BK PROBE* STATIC WATER LEVEL (FT BMP): *62.48*

DIST. FROM PUMPED WELL: *1,300 FEET* COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA READING REFERENCE	READING MEASURE	DEPTH TO WATER (FT)	DRAW DOWN (FT)	ADJUSTED WATER LEVEL (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
18-Apr	00:17	32421				64.68	2.20	63.71	0.97	
18-Apr	10:48	33052				64.70	2.22	63.74	0.96	
18-Apr	19:38	33582				64.72	2.24	63.76	0.96	
18-Apr	23:54	33838				64.73	2.25	63.77	0.96	
19-Apr	10:52	34496				64.74	2.26	63.79	0.95	
19-Apr	15:46	34790				64.74	2.26	63.80	0.94	
19-Apr	23:45	35269				64.76	2.28	63.82	0.94	
20-Apr	10:35	35919				64.79	2.31	63.84	0.95	
20-Apr	20:36	36520				64.80	2.32	63.87	0.93	
21-Apr	00:02	36726				64.80	2.32	63.87	0.93	
21-Apr	11:13	37397				64.80	2.32	63.90	0.90	
21-Apr	17:07	37751				64.82	2.34	63.91	0.91	
21-Apr	21:59	38043				64.83	2.35	63.92	0.91	
22-Apr	10:34	38798				64.84	2.36	63.95	0.89	
22-Apr	15:30	39094				64.84	2.36	63.96	0.88	
22-Apr	21:05	39429				64.87	2.39	63.98	0.89	
23-Apr	09:33	40177				64.88	2.40	64.00	0.88	
23-Apr	17:50	40674				64.86	2.38	64.02	0.84	
23-Apr	22:44	40968				64.87	2.39	64.03	0.84	
24-Apr	09:50	41634				64.91	2.43	64.06	0.85	
24-Apr	16:47	42051				64.91	2.43	64.07	0.84	
24-Apr	22:54	42418				64.91	2.43	64.09	0.82	
25-Apr	09:45	43069				64.95	2.47	64.11	0.84	
25-Apr	10:49	43133				64.95	2.47	64.11	0.84	
25-Apr	10:54	43138		64.85	0.10	64.95	2.47	64.11	0.84	
25-Apr	11:02	43146		64.85	0.10	64.95	2.47	64.11	0.84	
25-Apr	11:05	43149	21574.5	64.85	0.10	64.95	2.47	64.11	0.84	
25-Apr	11:10	43154	6164.9	64.83	0.10	64.93	2.45	64.12	0.82	
25-Apr	11:15	43159	3596.6	64.84	0.10	64.94	2.46	64.12	0.83	
25-Apr	11:20	43164	2539.1	64.84	0.10	64.94	2.46	64.12	0.83	
25-Apr	11:25	43169	1962.2	64.83	0.10	64.93	2.45	64.12	0.82	
25-Apr	11:30	43174	1599.0	64.83	0.10	64.93	2.45	64.12	0.82	
25-Apr	11:35	43179	1349.3	64.79	0.10	64.89	2.41	64.12	0.78	
25-Apr	11:40	43184	1167.1	64.83	0.10	64.93	2.45	64.12	0.82	
25-Apr	11:45	43189	1028.3	64.83	0.10	64.93	2.45	64.12	0.82	
25-Apr	11:50	43194	919.0	64.83	0.10	64.93	2.45	64.12	0.82	
25-Apr	11:55	43199	830.7	64.83	0.10	64.93	2.45	64.12	0.82	
25-Apr	12:00	43204	758.0	64.83	0.10	64.93	2.45	64.12	0.82	
25-Apr	12:05	43209	696.9	64.83	0.10	64.93	2.45	64.12	0.82	
25-Apr	12:10	43214	645.0	64.83	0.10	64.93	2.45	64.12	0.82	
25-Apr	12:15	43219	600.3	64.83	0.10	64.93	2.45	64.12	0.82	
25-Apr	12:20	43224	561.4	64.81	0.10	64.91	2.43	64.12	0.79	
25-Apr	12:25	43229	527.2	64.81	0.10	64.91	2.43	64.12	0.79	
25-Apr	12:30	43234	496.9	64.81	0.10	64.91	2.43	64.12	0.79	
25-Apr	12:35	43239	470.0	64.81	0.10	64.91	2.43	64.12	0.79	
25-Apr	12:40	43244	445.8	64.81	0.10	64.91	2.43	64.12	0.79	
25-Apr	12:45	43249	424.0	64.79	0.10	64.89	2.41	64.12	0.77	

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *HARLEY CARSON* PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *BK PROBE* STATIC WATER LEVEL (FT BMP): *62.48*

DIST. FROM PUMPED WELL: *1,300 FEET* COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t'	WATER LEVEL DATA: READING REFERENCE	READING MEASURE	DEPTH TO WATER (FT)	DRAW DOWN (FT)	ADJUSTED WATER LEVEL (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
25-Apr	12:50	43254	404.2	64.79	0.10	64.89	2.41	64.12	0.77	
25-Apr	12:55	43259	386.2	64.79	0.10	64.89	2.41	64.12	0.77	
25-Apr	13:00	43264	369.8	64.79	0.10	64.89	2.41	64.12	0.77	
25-Apr	13:05	43269	354.7	64.79	0.10	64.89	2.41	64.12	0.77	
25-Apr	13:10	43274	340.7	64.81	0.10	64.91	2.43	64.12	0.79	
25-Apr	13:18	43282	320.6	64.81	0.10	64.91	2.43	64.12	0.79	
25-Apr	13:20	43284	315.9	64.77	0.10	64.87	2.39	64.12	0.75	
25-Apr	13:56	43320	250.4			64.86	2.38	64.12	0.74	
25-Apr	14:26	43350	213.5			64.85	2.37	64.12	0.73	
25-Apr	15:03	43387	180.8			64.85	2.37	64.12	0.73	
25-Apr	15:52	43436	150.3			64.84	2.36	64.13	0.71	
25-Apr	16:22	43466	136.3			64.83	2.35	64.13	0.70	
25-Apr	17:20	43524	115.4			64.82	2.34	64.13	0.69	
25-Apr	18:40	43604	95.4			64.82	2.34	64.13	0.69	
25-Apr	19:53	43677	82.4			64.80	2.32	64.13	0.67	
25-Apr	21:50	43794	67.7			64.78	2.30	64.14	0.64	
26-Apr	00:07	43931	56.0			64.74	2.26	64.14	0.60	
26-Apr	08:31	44435	34.5			64.71	2.23	64.16	0.55	
26-Apr	13:56	44760	27.7			64.64	2.16	64.18	0.46	
26-Apr	17:46	44990	24.4	64.89	-0.13	64.76	2.28	64.18	0.58	MP increased by 0.13 ft
26-Apr	22:06	45250	21.5	64.74	-0.13	64.61	2.13	64.19	0.42	
27-Apr	01:16	45440	19.8	64.74	-0.13	64.61	2.13	64.20	0.41	
27-Apr	07:57	45841	17.0	64.70	-0.13	64.57	2.09	64.22	0.35	
27-Apr	12:11	46095	15.6	64.67	-0.13	64.54	2.06	64.23	0.31	
27-Apr	19:21	46525	13.8	64.64	-0.13	64.51	2.03	64.24	0.27	
27-Apr	23:36	46780	12.9	64.62	-0.13	64.49	2.01	64.25	0.24	
28-Apr	09:49	47393	11.2	64.62	-0.13	64.49	2.01	64.27	0.22	
28-Apr	14:55	47699	10.5	64.54	-0.13	64.41	1.93	64.29	0.12	
28-Apr	21:38	48102	9.7	64.50	-0.13	64.37	1.89	64.30	0.07	
29-Apr	10:55	48899	8.5	64.42	-0.13	64.29	1.81	64.33	-0.04	
29-Apr	20:58	49502	7.8	64.39	-0.13	64.26	1.78	64.35	-0.09	
30-Apr	08:51	50215	7.1	64.34	-0.13	64.21	1.73	64.38	-0.17	
30-Apr	20:58	50942	6.5	64.28	-0.13	64.15	1.67	64.41	-0.26	
01-May	09:09	51673	6.1	64.22	-0.13	64.09	1.61	64.43	-0.34	
01-May	21:28	52412	5.7	64.18	-0.13	64.05	1.57	64.46	-0.41	
02-May	09:23	53127	5.3	64.14	-0.13	64.01	1.53	64.49	-0.48	
02-May	18:06	53650	5.1	64.09	-0.13	63.96	1.48	64.51	-0.55	
03-May	10:11	54615	4.8	64.04	-0.13	63.91	1.43	64.54	-0.63	
03-May	20:56	55260	4.6	64.01	-0.13	63.88	1.40	64.57	-0.69	
04-May	09:54	56038	4.3	63.96	-0.13	63.83	1.35	64.60	-0.77	
04-May	21:29	56733	4.2	63.91	-0.13	63.78	1.30	64.62	-0.84	
05-May	09:23	57447	4.0	63.88	-0.13	63.75	1.27	64.65	-0.90	
05-May	20:21	58105	3.9	63.83	-0.13	63.70	1.22	64.67	-0.97	
06-May	09:16	58880	3.7	63.78	-0.13	63.65	1.17	64.70	-1.05	

EAGLE HILLS GOLF COURSE WELL

CH2M HILL PUMPING TEST REPORT

PROJECT NO: BOI 31684.A1

WELL NO: EAGLE HILLS GOLF COURSE — PUMPING / OBSERVATION WELL

TYPE OF DATA: DRAWDOWN

PUMPED WELL NO: PW — RADIUS: 14"(28"HOLE) — M.P. FOR WL'S: TOP OF CASING — ELEV.:

PUMPING RATES: 750.0 Gallons per minute — PUMP ON: DATE 26-Mar-91 TIME 10:56:00

HOW Q MEASURED: FLOWMETER — PUMP OFF: DATE 25-Apr-91 TIME 11:03:00

HOW WL'S MEASURED: SI PROBE & STEVENS RECORDER — STATIC WATER LEVEL (FT BMP): 55.59

DIST. FROM PUMPED WELL: 2,500 FEET — COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA: READINGS REFERENCE	READINGS MEASURE	DEPTH TO WATER (FT)	DRAW DOWN (FT)	ADJUSTED WATER LEVEL (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
12-Mar	15:50	-19866.0				55.17	-0.42	55.32	-0.15	PRETEST WATER LEVEL TREND
14-Mar	14:15	-17081.0				57.95	2.36	55.36	2.59	other well pumping
18-Mar	13:30	-11366.0				58.39	2.80	55.44	2.95	other well pumping
20-Mar	16:00	-8336.0				58.98	3.39	55.48	3.50	other well pumping
20-Mar	16:45	-8291.0				55.85	0.26	55.48	0.37	
20-Mar	17:00	-8276.0				55.73	0.14	55.48	0.25	
20-Mar	17:30	-8246.0				55.63	0.04	55.48	0.15	
20-Mar	18:00	-8216.0				55.59	0.00	55.48	0.11	
20-Mar	18:30	-8186.0				55.57	-0.02	55.48	0.09	
20-Mar	19:00	-8156.0				55.56	-0.03	55.48	0.08	
20-Mar	20:00	-8096.0				55.55	-0.04	55.48	0.07	
20-Mar	21:00	-8036.0				55.53	-0.06	55.48	0.05	
20-Mar	22:00	-7976.0				55.53	-0.06	55.48	0.05	
21-Mar	00:00	-7856.0				55.51	-0.08	55.49	0.02	
21-Mar	03:00	-7676.0				55.50	-0.09	55.49	0.01	
21-Mar	09:00	-7316.0				55.50	-0.09	55.49	0.01	
21-Mar	15:00	-6956.0				55.49	-0.10	55.50	-0.01	
21-Mar	21:00	-6596.0				55.50	-0.09	55.50	-0.00	
22-Mar	03:00	-6236.0				55.50	-0.09	55.51	-0.01	
22-Mar	09:00	-5876.0				55.51	-0.08	55.51	-0.00	
22-Mar	15:00	-5516.0				55.51	-0.08	55.52	-0.01	
22-Mar	21:00	-5156.0				55.51	-0.08	55.52	-0.01	
23-Mar	03:00	-4796.0				55.51	-0.08	55.53	-0.02	
23-Mar	09:00	-4436.0				55.52	-0.07	55.53	-0.01	
23-Mar	15:00	-4076.0				55.52	-0.07	55.54	-0.02	
23-Mar	21:00	-3716.0				55.52	-0.07	55.54	-0.02	
24-Mar	03:00	-3356.0				55.52	-0.07	55.55	-0.03	
24-Mar	09:00	-2996.0				55.54	-0.05	55.55	-0.01	
24-Mar	15:00	-2636.0				55.54	-0.05	55.56	-0.02	
24-Mar	21:00	-2276.0				55.54	-0.05	55.56	-0.02	
25-Mar	03:00	-1916.0				55.53	-0.06	55.57	-0.04	
25-Mar	09:00	-1556.0				55.54	-0.05	55.57	-0.03	
25-Mar	15:00	-1196.0				55.55	-0.04	55.58	-0.03	
25-Mar	21:00	-836.0				55.58	-0.01	55.58	-0.00	
26-Mar	03:00	-476.0				55.58	-0.01	55.59	-0.01	
26-Mar	09:00	-116.0				55.59	0.00	55.59	-0.00	
26-Mar	10:55	-1.0				55.59	0.00	55.60	-0.01	
26-Mar	10:57	1.0				55.59	0.00	55.60	-0.01	
26-Mar	10:59	3.0				55.59	0.00	55.60	-0.01	
26-Mar	11:00	4.0				55.59	0.00	55.60	-0.01	
26-Mar	11:05	9.0				55.59	0.00	55.60	-0.01	
26-Mar	11:10	14.0				55.59	0.00	55.60	-0.01	
26-Mar	11:15	19.0				55.60	0.00	55.60	-0.00	
26-Mar	11:20	24.0				55.60	0.01	55.60	0.00	

Regression Output:

Constant	55.60
Std Err of Y Est	0.05
R Squared	0.68
No. of Observations	31.00
Degrees of Freedom	29.00
X Coefficient(s)	0.000014
Std Err of Coef.	0.000002

X	Y
-19866.0	55.17
-8216.0	55.59
-8186.0	55.57
-8156.0	55.56
-8096.0	55.55
-8036.0	55.53
-7976.0	55.53
-7856.0	55.51
-7676.0	55.50
-7316.0	55.50
-6956.0	55.49
-6596.0	55.50
-6236.0	55.50
-5876.0	55.51
-5516.0	55.51
-5156.0	55.51
-4796.0	55.51
-4436.0	55.52
-4076.0	55.52
-3716.0	55.52
-3356.0	55.52
-2996.0	55.54
-2636.0	55.54
-2276.0	55.54
-1916.0	55.53
-1556.0	55.54
-1196.0	55.55
-836.0	55.58
-476.0	55.58
-116.0	55.59
-1.0	55.59

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *EAGLE HILLS GOLF COURSE* PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL'S MEASURED: *SI PROBE & STEVENS RECORDER* STATIC WATER LEVEL (FT BMP): *55.59*

DIST. FROM PUMPED WELL: *2,500 FEET* COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA: READINGS REFERENCE	READINGS MEASURE	DEPTH TO WATER (FT)	DRAW DOWN (FT)	ADJUSTED WATER LEVEL (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
26-Mar	11:25	29.0				55.60	0.01	55.60	0.00	
26-Mar	11:30	34.0				55.60	0.01	55.60	0.00	
26-Mar	12:00	64.0				55.60	0.01	55.60	0.00	
26-Mar	12:30	94.0				55.60	0.01	55.60	0.00	
26-Mar	13:00	124.0				55.61	0.02	55.60	0.01	
26-Mar	13:30	154.0				55.62	0.03	55.60	0.02	
26-Mar	14:00	184.0				55.62	0.03	55.60	0.02	
26-Mar	15:00	244.0				55.65	0.06	55.60	0.05	
26-Mar	16:00	304.0				55.66	0.07	55.60	0.06	
26-Mar	17:00	364.0				55.68	0.09	55.60	0.08	
26-Mar	18:00	424.0				55.70	0.11	55.60	0.10	
26-Mar	19:00	484.0				55.71	0.12	55.60	0.11	
26-Mar	20:00	544.0				55.73	0.14	55.60	0.13	
26-Mar	21:00	604.0				55.74	0.15	55.60	0.14	
26-Mar	22:00	664.0				55.74	0.15	55.61	0.13	
26-Mar	23:00	724.0				55.76	0.17	55.61	0.15	
27-Mar	00:00	784.0				55.76	0.17	55.61	0.15	
27-Mar	01:00	844.0				55.77	0.18	55.61	0.16	
27-Mar	02:00	904.0				55.78	0.19	55.61	0.17	
27-Mar	03:00	964.0				55.78	0.19	55.61	0.17	
27-Mar	04:00	1024.0				55.79	0.20	55.61	0.18	
27-Mar	05:00	1084.0				55.80	0.21	55.61	0.19	
27-Mar	06:00	1144.0				55.81	0.22	55.61	0.20	
27-Mar	07:00	1204.0				55.81	0.22	55.61	0.20	
27-Mar	08:00	1264.0				55.83	0.24	55.61	0.22	
27-Mar	09:00	1324.0				55.83	0.24	55.62	0.21	
27-Mar	10:00	1384.0				55.83	0.24	55.62	0.21	
27-Mar	11:00	1444.0				55.83	0.24	55.62	0.21	
27-Mar	12:00	1504.0				55.83	0.24	55.62	0.21	
27-Mar	14:00	1624.0				55.84	0.25	55.62	0.22	
27-Mar	16:00	1744.0				55.84	0.25	55.62	0.22	
27-Mar	18:00	1864.0				55.85	0.26	55.62	0.23	
27-Mar	20:00	1984.0				55.86	0.27	55.62	0.24	
27-Mar	22:00	2104.0				55.87	0.28	55.63	0.24	
28-Mar	00:00	2224.0				55.87	0.28	55.63	0.24	
28-Mar	02:00	2344.0				55.87	0.28	55.63	0.24	
28-Mar	04:00	2464.0				55.88	0.29	55.63	0.25	
28-Mar	06:00	2584.0				55.88	0.29	55.63	0.25	
28-Mar	08:00	2704.0				55.90	0.31	55.63	0.27	
28-Mar	10:00	2824.0				55.91	0.32	55.64	0.27	
28-Mar	11:00	2884.0				55.91	0.32	55.64	0.27	
28-Mar	12:00	2944.0				55.91	0.32	55.64	0.27	
28-Mar	15:00	3124.0				55.91	0.32	55.64	0.27	
28-Mar	18:00	3304.0				55.91	0.32	55.64	0.27	

CH2M HILL PUMPING TEST REPORT

PROJECT NO: BOI 31684.A1

WELL NO: EAGLE HILLS GOLF COURSE — PUMPING / OBSERVATION WELL

TYPE OF DATA: DRAWDOWN

PUMPED WELL NO: PW — RADIUS: 14"(28"HOLE)

PUMPING RATES: 750.0 Gallons per minute

HOW Q MEASURED: FLOWMETER

HOW WL'S MEASURED: SI PROBE & STEVENS RECORDER

DIST. FROM PUMPED WELL: 2,500 FEET

M.P. FOR WL'S: TOP OF CASING — ELEV.:

PUMP ON: DATE 26-Mar-91 TIME 10:56:00

PUMP OFF: DATE 25-Apr-91 TIME 11:03:00

STATIC WATER LEVEL (FT BMP): 55.59

COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA: READINGS REFERENCE	READINGS MEASURE	DEPTH TO WATER (FT)	DRAW DOWN (FT)	ADJUSTED WATER LEVEL (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
28-Mar	21:00	3484.0				55.94	0.35	55.65	0.29	
29-Mar	00:00	3664.0				55.95	0.36	55.65	0.30	
29-Mar	03:00	3844.0				55.96	0.37	55.65	0.31	
29-Mar	09:00	4204.0				55.96	0.37	55.66	0.30	
29-Mar	15:00	4564.0				55.99	0.40	55.66	0.33	
29-Mar	21:00	4924.0				55.99	0.40	55.67	0.32	
30-Mar	03:00	5284.0				56.00	0.41	55.67	0.33	
30-Mar	09:00	5644.0				56.02	0.43	55.68	0.34	
30-Mar	15:00	6004.0				56.03	0.44	55.68	0.35	
30-Mar	17:00	6124.0				56.05	0.46	55.68	0.37	
30-Mar	17:23	6147.0				56.09	0.50	55.68	0.41	
30-Mar	18:00	6184.0				56.07	0.48	55.68	0.39	
30-Mar	21:00	6364.0				56.07	0.48	55.69	0.38	
31-Mar	03:00	6724.0				56.08	0.49	55.69	0.39	
31-Mar	09:00	7084.0				56.09	0.50	55.70	0.39	
31-Mar	16:00	7504.0				56.10	0.51	55.70	0.40	
31-Mar	21:00	7804.0				56.11	0.52	55.71	0.40	
01-Apr	03:00	8164.0				56.13	0.54	55.71	0.42	
01-Apr	09:00	8524.0				56.14	0.55	55.72	0.42	
01-Apr	10:00	8584.0				56.18	0.59	55.72	0.46	
01-Apr	14:30	8854.0				56.19	0.60	55.72	0.47	
01-Apr	14:45	8869.0				56.23	0.64	55.72	0.51	
01-Apr	15:45	8929.0				56.23	0.64	55.72	0.51	
01-Apr	16:15	8959.0				56.15	0.56	55.72	0.43	
01-Apr	21:00	9244.0				56.19	0.60	55.73	0.46	
02-Apr	03:00	9604.0				56.17	0.58	55.73	0.44	
02-Apr	09:00	9964.0				56.19	0.60	55.74	0.45	
02-Apr	13:20	10224.0				56.21	0.62	55.74	0.47	
02-Apr	13:45	10249.0				56.26	0.67	55.74	0.52	
02-Apr	14:30	10294.0				56.25	0.66	55.74	0.51	
02-Apr	15:00	10324.0				56.28	0.69	55.74	0.54	
02-Apr	15:45	10369.0				56.29	0.70	55.74	0.55	
02-Apr	16:30	10414.0				56.24	0.65	55.74	0.50	
02-Apr	21:00	10684.0				56.23	0.64	55.75	0.48	
03-Apr	03:00	11044.0				56.24	0.65	55.75	0.49	
03-Apr	09:00	11404.0				56.27	0.68	55.76	0.51	
03-Apr	15:00	11764.0				56.26	0.67	55.76	0.50	
03-Apr	21:00	12124.0				56.26	0.67	55.77	0.49	
04-Apr	03:00	12484.0				56.28	0.69	55.77	0.51	
04-Apr	09:00	12844.0				56.33	0.74	55.78	0.55	
04-Apr	15:00	13204.0				56.29	0.70	55.78	0.51	
04-Apr	21:00	13564.0				56.31	0.72	55.79	0.52	
05-Apr	03:00	13924.0				56.31	0.72	55.79	0.52	
05-Apr	09:00	14284.0				56.31	0.72	55.80	0.51	

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *EAGLE HILLS GOLF COURSE* PUMPING / OBSERVATION WELL
TYPE OF DATA: *DRAWDOWN*
PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* M.P. FOR WL'S: *TOP OF CASING* ELEV.:
PUMPING RATES: *750.0 Gallons per minute* PUMP ON: DATE *26-Mar-91* TIME *10:56:00*
HOW Q MEASURED: *FLOWMETER* PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*
HOW WL'S MEASURED: *SI PROBE & STEVENS RECORDER* STATIC WATER LEVEL (FT BMP): *55.59*
DIST. FROM PUMPED WELL: *2,500 FEET* COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA: READINGS REFERENCE	READINGS MEASURE	DEPTH TO WATER (FT)	DRAW DOWN (FT)	ADJUSTED WATER LEVEL (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
05-Apr	15:00	14644.0				56.34	0.75	55.80	0.54	
05-Apr	22:00	15064.0				56.34	0.75	55.81	0.53	
06-Apr	03:00	15364.0				56.34	0.75	55.81	0.53	
06-Apr	09:00	15724.0				56.35	0.76	55.82	0.53	
06-Apr	15:00	16084.0				56.36	0.77	55.82	0.54	
06-Apr	21:00	16444.0				56.38	0.79	55.83	0.55	Daylight savings time started at 2 am.
07-Apr	03:00	16744.0				56.38	0.79	55.83	0.55	Elapsed time adjusted -60 min.
07-Apr	09:00	17104.0				56.39	0.80	55.84	0.55	
07-Apr	15:00	17464.0				56.39	0.80	55.84	0.55	
07-Apr	21:00	17824.0				56.41	0.82	55.85	0.56	
08-Apr	03:00	18184.0				56.41	0.82	55.85	0.56	
08-Apr	09:00	18544.0				56.45	0.86	55.86	0.59	
08-Apr	15:00	18904.0				56.43	0.84	55.86	0.57	
08-Apr	22:00	19324.0				56.45	0.86	55.87	0.58	
09-Apr	03:00	19624.0				56.43	0.84	55.87	0.56	
09-Apr	09:00	19984.0				56.45	0.86	55.88	0.57	
09-Apr	15:00	20344.0				56.44	0.85	55.88	0.56	
09-Apr	21:00	20704.0				56.46	0.87	55.89	0.57	
10-Apr	03:00	21064.0				56.46	0.87	55.89	0.57	
10-Apr	09:00	21424.0				56.49	0.90	55.90	0.59	
10-Apr	15:00	21784.0				56.47	0.88	55.90	0.57	
10-Apr	21:00	22144.0				56.48	0.89	55.91	0.57	
11-Apr	03:00	22504.0				56.48	0.89	55.91	0.57	
11-Apr	09:00	22864.0				56.50	0.91	55.92	0.58	
11-Apr	15:00	23224.0				56.49	0.90	55.92	0.57	
11-Apr	21:00	23584.0				56.50	0.91	55.93	0.57	
12-Apr	03:00	23944.0				56.50	0.91	55.93	0.57	
12-Apr	09:00	24304.0				56.53	0.94	55.94	0.59	
12-Apr	15:00	24664.0				56.51	0.92	55.94	0.57	
12-Apr	21:00	25024.0				56.52	0.93	55.95	0.57	
13-Apr	03:00	25384.0				56.52	0.93	55.95	0.57	
13-Apr	09:00	25744.0				56.53	0.94	55.96	0.57	
13-Apr	15:00	26104.0				56.53	0.94	55.96	0.57	
13-Apr	21:00	26464.0				56.56	0.97	55.97	0.59	
14-Apr	03:00	26824.0				56.54	0.95	55.98	0.56	
14-Apr	09:00	27184.0				56.55	0.96	55.98	0.57	
14-Apr	15:00	27544.0				56.54	0.95	55.99	0.55	
14-Apr	21:00	27904.0				56.55	0.96	55.99	0.56	
15-Apr	09:00	28624.0				56.59	1.00	56.00	0.59	
15-Apr	15:00	28984.0				56.57	0.98	56.01	0.56	
15-Apr	21:00	29344.0				56.57	0.98	56.01	0.56	
16-Apr	03:00	29704.0				56.55	0.96	56.02	0.53	
16-Apr	09:00	30064.0				56.56	0.97	56.02	0.54	
16-Apr	15:00	30424.0				56.56	0.97	56.03	0.53	

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *EAGLE HILLS GOLF COURSE* PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL'S MEASURED: *SI PROBE & STEVENS RECORDER* STATIC WATER LEVEL (FT BMP): *55.59*

DIST. FROM PUMPED WELL: *2,500 FEET* COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t'	WATER LEVEL DATA: READINGS REFERENCE	READINGS MEASURE	DEPTH TO WATER (FT)	DRAW DOWN (FT)	ADJUSTED WATER LEVEL (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
16-Apr	21:00	30784.0				56.56	0.97	56.03	0.53	
17-Apr	03:00	31144.0				56.56	0.97	56.04	0.52	
17-Apr	09:00	31504.0				56.58	0.99	56.04	0.54	
17-Apr	15:00	31864.0				56.57	0.98	56.05	0.52	
17-Apr	21:00	32224.0				56.57	0.98	56.05	0.52	
18-Apr	03:00	32584.0				56.57	0.98	56.06	0.51	
18-Apr	09:00	32944.0				56.58	0.99	56.06	0.52	
18-Apr	16:00	33364.0				56.58	0.99	56.07	0.51	
18-Apr	21:00	33664.0				56.59	1.00	56.07	0.52	
19-Apr	03:00	34024.0				56.58	0.99	56.08	0.50	
19-Apr	09:00	34384.0				56.60	1.01	56.08	0.52	
19-Apr	15:00	34744.0				56.59	1.00	56.09	0.50	
19-Apr	21:00	35104.0				56.61	1.02	56.09	0.52	
20-Apr	03:00	35464.0				56.60	1.01	56.10	0.50	
20-Apr	09:00	35824.0				56.61	1.02	56.10	0.51	
20-Apr	15:00	36184.0				56.60	1.01	56.11	0.49	
20-Apr	21:00	36544.0				56.60	1.01	56.11	0.49	
21-Apr	03:00	36904.0				56.60	1.01	56.12	0.48	
21-Apr	09:00	37264.0				56.61	1.02	56.12	0.49	
21-Apr	15:00	37624.0				56.58	0.99	56.13	0.45	
21-Apr	21:00	37984.0				56.65	1.06	56.13	0.52	
22-Apr	03:00	38344.0				56.63	1.04	56.14	0.49	
22-Apr	09:00	38704.0				56.64	1.05	56.14	0.50	
22-Apr	15:00	39064.0				56.62	1.03	56.15	0.47	
22-Apr	21:00	39424.0				56.62	1.03	56.15	0.47	
23-Apr	03:00	39784.0				56.62	1.03	56.16	0.46	
23-Apr	09:00	40144.0				56.60	1.01	56.16	0.44	
23-Apr	15:00	40504.0				56.62	1.03	56.17	0.45	
23-Apr	21:00	40864.0				56.64	1.05	56.17	0.47	
24-Apr	03:00	41224.0				56.62	1.03	56.18	0.44	
24-Apr	09:00	41584.0				56.64	1.05	56.18	0.46	
24-Apr	15:00	41944.0				56.62	1.03	56.19	0.43	
24-Apr	21:00	42304.0				56.62	1.03	56.19	0.43	
25-Apr	03:00	42664.0				56.60	1.01	56.20	0.40	
25-Apr	09:00	43024.0				56.63	1.04	56.20	0.43	
25-Apr	09:45	43069.0				56.63	1.04	56.20	0.43	
25-Apr	11:02	43147.0				56.62	1.03	56.21	0.41	
25-Apr	11:06	43150.0	14383.3			56.62	1.03	56.21	0.41	
25-Apr	11:12	43156.0	4795.1			56.62	1.03	56.21	0.41	
25-Apr	11:18	43162.0	2877.5			56.61	1.02	56.21	0.41	
25-Apr	11:24	43168.0	2055.6			56.61	1.02	56.21	0.41	
25-Apr	11:30	43174.0	1599.0			56.61	1.02	56.21	0.40	
25-Apr	12:00	43204.0	758.0			56.60	1.01	56.21	0.39	
25-Apr	12:30	43234.0	496.9			56.60	1.00	56.21	0.39	

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *EAGLE HILLS GOLF COURSE* PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL'S MEASURED: *SI PROBE & STEVENS RECORDER* STATIC WATER LEVEL (FT BMP): *55.59*

DIST. FROM PUMPED WELL: *2,500 FEET* COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA						REMARKS
				READINGS		DEPTH TO WATER (FT)	DRAW DOWN (FT)	ADJUSTED WATER LEVEL (FT)	ADJUSTED DRAW DOWN (FT)	
				REFERENCE	MEASURE					
25-Apr	13:00	43264.0	389.8			56.59	1.00	56.21	0.38	
25-Apr	13:30	43294.0	294.5			56.58	0.99	56.21	0.37	
25-Apr	14:00	43324.0	244.8			56.57	0.98	56.21	0.36	
25-Apr	14:30	43354.0	209.4			56.57	0.97	56.21	0.36	
25-Apr	15:00	43384.0	183.1			56.56	0.97	56.21	0.35	
25-Apr	16:00	43444.0	146.3			56.56	0.96	56.21	0.35	
25-Apr	17:00	43504.0	121.9			56.53	0.93	56.21	0.31	
25-Apr	18:00	43564.0	104.5			56.51	0.92	56.21	0.30	
25-Apr	19:00	43624.0	91.5			56.51	0.91	56.21	0.29	
25-Apr	19:30	43654.0	86.1			56.50	0.91	56.21	0.29	
25-Apr	22:00	43804.0	66.7			56.48	0.89	56.21	0.27	
25-Apr	23:00	43864.0	61.2			56.47	0.88	56.22	0.25	
26-Apr	00:00	43924.0	56.5			56.46	0.87	56.22	0.24	
26-Apr	01:00	43984.0	52.5			56.45	0.86	56.22	0.23	
26-Apr	02:00	44044.0	49.1			56.45	0.85	56.22	0.23	
26-Apr	03:00	44104.0	46.1			56.44	0.85	56.22	0.22	
26-Apr	04:00	44164.0	43.4			56.44	0.84	56.22	0.22	
26-Apr	05:00	44224.0	41.1			56.43	0.84	56.22	0.21	
26-Apr	06:42	44326.0	37.6			56.42	0.83	56.22	0.20	
26-Apr	07:00	44344.0	37.0			56.42	0.83	56.22	0.20	
26-Apr	09:00	44464.0	33.8			56.41	0.82	56.22	0.19	
26-Apr	11:00	44584.0	31.0			56.40	0.81	56.23	0.18	
26-Apr	13:00	44704.0	28.7			56.39	0.80	56.23	0.16	
26-Apr	15:00	44824.0	26.7			56.37	0.78	56.23	0.14	
26-Apr	18:00	45004.0	24.2			56.36	0.77	56.23	0.13	
26-Apr	21:00	45184.0	22.2			56.36	0.76	56.23	0.12	
27-Apr	00:00	45364.0	20.5			56.35	0.76	56.24	0.11	
27-Apr	03:00	45544.0	19.0			56.34	0.75	56.24	0.10	
27-Apr	06:00	45724.0	17.7			56.34	0.75	56.24	0.10	
27-Apr	09:00	45904.0	16.6			56.33	0.74	56.24	0.09	
27-Apr	12:00	46084.0	15.7			56.32	0.72	56.25	0.07	
27-Apr	15:00	46264.0	14.8			56.31	0.71	56.25	0.06	
27-Apr	18:00	46444.0	14.1			56.29	0.70	56.25	0.04	
27-Apr	21:00	46624.0	13.4			56.29	0.70	56.25	0.04	
27-Apr	21:45	46669.0	13.3			56.29	0.70	56.26	0.03	
28-Apr	03:00	46984.0	12.2			56.27	0.68	56.26	0.01	
28-Apr	06:00	47164.0	11.7			56.26	0.67	56.26	-0.00	
28-Apr	09:00	47344.0	11.3			56.27	0.68	56.26	0.01	
28-Apr	12:00	47524.0	10.9			56.25	0.66	56.27	-0.02	
28-Apr	15:00	47704.0	10.5			56.23	0.64	56.27	-0.04	
28-Apr	21:00	48064.0	9.8			56.21	0.62	56.27	-0.06	
29-Apr	03:00	48424.0	9.2			56.20	0.61	56.28	-0.08	
29-Apr	09:00	48784.0	8.7			56.20	0.61	56.29	-0.09	
29-Apr	15:00	49144.0	8.2			56.18	0.59	56.29	-0.11	

CH2M HILL *PUMPING TEST REPORT*

PROJECT NO: BOI 31684.A1

WELL NO: *EAGLE HILLS GOLF COURSE* — PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)*

PUMPING RATES: *750.0 Gallons per minute*

HOW Q MEASURED: *FLOWMETER*

HOW WL'S MEASURED: *SI PROBE & STEVENS RECORDER*

DIST. FROM PUMPED WELL: *2,500 FEET*

M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

STATIC WATER LEVEL (FT BMP): *55.59*

COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA				ADJUSTED WATER LEVEL (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
				READINGS		DEPTH TO WATER (FT)	DRAW DOWN (FT)			
				REFERENCE	MEASURE					
29-Apr	21:00	49504.0	7.8			56.17	0.57	56.30	-0.13	
30-Apr	03:00	49864.0	7.4			56.15	0.56	56.30	-0.15	
30-Apr	09:00	50224.0	7.1			56.15	0.56	56.31	-0.16	
30-Apr	15:00	50584.0	6.8			56.12	0.53	56.31	-0.19	
30-Apr	21:00	50944.0	6.5			56.13	0.54	56.32	-0.19	
01-May	03:00	51304.0	6.3			56.10	0.51	56.32	-0.22	
01-May	09:00	51664.0	6.1			56.07	0.48	56.33	-0.26	
01-May	15:00	52024.0	5.9			56.08	0.49	56.33	-0.25	
01-May	21:00	52384.0	5.7			56.06	0.47	56.34	-0.28	
02-May	03:00	52744.0	5.5			56.03	0.44	56.34	-0.31	
02-May	09:00	53104.0	5.3			56.05	0.46	56.35	-0.30	
02-May	14:00	53404.0	5.2			56.02	0.43	56.35	-0.33	
03-May	10:10	54614.0	4.8			56.02	0.43	56.37	-0.35	
03-May	15:00	54904.0	4.7			55.98	0.39	56.37	-0.39	
03-May	21:00	55264.0	4.6			55.98	0.39	56.38	-0.40	
04-May	03:00	55624.0	4.5			55.96	0.37	56.38	-0.42	
04-May	09:00	55984.0	4.4			55.92	0.33	56.39	-0.47	
04-May	15:00	56344.0	4.3			55.93	0.34	56.39	-0.46	
04-May	21:00	56704.0	4.2			55.92	0.33	56.40	-0.48	
05-May	03:00	57064.0	4.1			55.92	0.33	56.40	-0.48	
05-May	09:00	57424.0	4.0			55.87	0.28	56.41	-0.54	
05-May	15:00	57784.0	3.9			55.87	0.28	56.41	-0.54	
05-May	21:00	58144.0	3.9			55.89	0.30	56.42	-0.53	
06-May	03:00	58504.0	3.8			55.85	0.26	56.42	-0.57	
06-May	09:00	58864.0	3.7			55.82	0.23	56.43	-0.61	
06-May	11:24	59008.0	3.7			55.85	0.26	56.43	-0.58	

HORMACHEA WELL

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *HORMACHEA* PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *SI PROBE* STATIC WATER LEVEL (FT BMP): *60.44*

DIST. FROM PUMPED WELL: *3,700 FEET* COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA: READINGS REFERENCE	READINGS MEASURE	DEPTH TO WATER (FT)	DRAW DOWN (FT)	ADJUSTED DEPTH TO WATER (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
20-Mar	16:00	-8336				60.29	-0.15	60.30	-0.01	
20-Mar	21:00	-8036				60.27	-0.17	60.30	-0.03	PRETEST WATER LEVEL TRENDS
21-Mar	03:00	-7676				60.27	-0.17	60.31	-0.04	Regression Output:
21-Mar	09:00	-7316				60.29	-0.15	60.31	-0.02	Constant 60.40
21-Mar	15:00	-6956				60.31	-0.13	60.32	-0.01	Std Err of Y Est 0.03
21-Mar	21:00	-6596				60.33	-0.11	60.32	0.01	R Squared 0.60
22-Mar	03:00	-6236				60.34	-0.10	60.33	0.01	No. of Observations 25.00
22-Mar	09:00	-5876				60.37	-0.07	60.33	0.04	Degrees of Freedom 23.00
22-Mar	15:00	-5516				60.38	-0.06	60.34	0.04	
22-Mar	21:00	-5156				60.38	-0.06	60.34	0.04	X Coefficient(s) 0.000013
22-Mar	03:00	-6236				60.35	-0.09	60.33	0.02	Std Err of Coef. 0.000002
23-Mar	09:00	-4436				60.35	-0.09	60.35	0.00	
22-Mar	15:00	-5516				60.35	-0.09	60.34	0.01	X Y
23-Mar	21:00	-3716				60.36	-0.08	60.36	0.00	-8336 60.29
24-Mar	03:00	-3356				60.33	-0.11	60.36	-0.03	-8036 60.27
24-Mar	09:00	-2996				60.38	-0.06	60.37	0.01	-7676 60.27
24-Mar	15:00	-2636				60.39	-0.05	60.37	0.02	-7316 60.29
24-Mar	21:00	-2276				60.39	-0.05	60.38	0.01	-6956 60.31
25-Mar	03:00	-1916				60.34	-0.10	60.38	-0.04	-6596 60.33
25-Mar	09:00	-1556				60.34	-0.10	60.39	-0.05	-6236 60.34
25-Mar	15:00	-1196				60.35	-0.09	60.39	-0.04	-5876 60.37
25-Mar	21:00	-836				60.38	-0.06	60.39	-0.01	-5516 60.38
26-Mar	03:00	-476				60.40	-0.04	60.40	0.00	-5156 60.38
26-Mar	09:00	-116				60.43	-0.01	60.40	0.03	-6236 60.35
26-Mar	10:00	-56				60.43	-0.01	60.40	0.03	-4436 60.35
26-Mar	11:00	4				60.44	0.00	60.40	0.04	-5516 60.35
26-Mar	12:00	64				60.45	0.01	60.41	0.04	-3716 60.36
26-Mar	13:00	124				60.46	0.02	60.41	0.05	-3356 60.33
26-Mar	14:00	184				60.46	0.02	60.41	0.05	-2996 60.38
26-Mar	15:00	244				60.47	0.03	60.41	0.06	-2636 60.39
26-Mar	16:00	304				60.48	0.04	60.41	0.07	-2276 60.39
26-Mar	17:00	364				60.49	0.05	60.41	0.08	-1916 60.34
26-Mar	18:00	424				60.51	0.07	60.41	0.10	-1556 60.34
26-Mar	19:00	484				60.52	0.08	60.41	0.11	-1196 60.35
26-Mar	20:00	544				60.53	0.09	60.41	0.12	-836 60.38
26-Mar	21:00	604				60.55	0.11	60.41	0.14	-476 60.40
26-Mar	22:00	664				60.56	0.12	60.41	0.15	-116 60.43
26-Mar	23:00	724				60.58	0.14	60.41	0.17	-56 60.43
27-Mar	00:00	784				60.59	0.15	60.41	0.18	
27-Mar	02:00	904				60.59	0.15	60.42	0.17	
27-Mar	04:00	1024				60.59	0.15	60.42	0.17	
27-Mar	06:00	1144				60.61	0.17	60.42	0.19	
27-Mar	08:00	1264				60.63	0.19	60.42	0.21	
27-Mar	10:00	1384				60.66	0.22	60.42	0.24	

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *HORMACHEA* PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *SI PROBE* STATIC WATER LEVEL (FT BMP): *60.44*

DIST. FROM PUMPED WELL: *3,700 FEET* COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA						REMARKS
				READINGS		DEPTH TO WATER (FT)	DRAW DOWN (FT)	ADJUSTED DEPTH TO WATER (FT)	ADJUSTED DRAW DOWN (FT)	
				REFERENCE	MEASURE					
27-Mar	12:00	1504				60.66	0.22	60.42	0.24	
27-Mar	14:00	1624				60.66	0.22	60.43	0.23	
27-Mar	16:00	1744				60.66	0.22	60.43	0.23	
27-Mar	18:00	1864				60.66	0.22	60.43	0.23	
27-Mar	20:00	1984				60.68	0.24	60.43	0.25	
27-Mar	22:00	2104				60.70	0.26	60.43	0.27	
28-Mar	00:00	2224				60.71	0.27	60.43	0.28	
28-Mar	03:00	2404				60.71	0.27	60.44	0.27	
28-Mar	09:00	2764				60.74	0.30	60.44	0.30	
28-Mar	15:00	3124				60.74	0.30	60.44	0.30	
28-Mar	21:00	3484				60.76	0.32	60.45	0.31	
29-Mar	03:00	3844				60.79	0.35	60.45	0.34	
29-Mar	09:00	4204				60.82	0.38	60.46	0.36	
29-Mar	15:00	4564				60.81	0.37	60.46	0.35	
29-Mar	21:00	4924				60.82	0.38	60.47	0.35	
30-Mar	03:00	5284				60.84	0.40	60.47	0.37	
30-Mar	09:00	5644				60.86	0.42	60.48	0.38	
30-Mar	15:00	6004				60.82	0.38	60.48	0.34	
30-Mar	21:00	6364				60.94	0.50	60.49	0.45	
31-Mar	03:00	6724				60.92	0.48	60.49	0.43	
31-Mar	09:00	7084				60.90	0.46	60.49	0.41	
31-Mar	15:00	7444				60.90	0.46	60.50	0.40	
31-Mar	21:00	7804				60.88	0.44	60.50	0.38	
01-Apr	03:00	8164				60.90	0.46	60.51	0.39	
01-Apr	09:00	8524				60.93	0.49	60.51	0.42	
01-Apr	15:00	8884				60.95	0.51	60.52	0.43	
01-Apr	21:00	9244				60.99	0.55	60.52	0.47	
02-Apr	03:00	9604				60.99	0.55	60.53	0.46	
02-Apr	09:00	9964				61.02	0.58	60.53	0.49	
02-Apr	03:00	9604				61.04	0.60	60.53	0.51	
02-Apr	21:00	10684				61.03	0.59	60.54	0.49	
03-Apr	03:00	11044				61.06	0.62	60.54	0.52	
03-Apr	09:00	11404				61.08	0.64	60.55	0.53	
03-Apr	15:00	11764				61.08	0.64	60.55	0.53	
03-Apr	21:00	12124				61.06	0.62	60.56	0.50	
04-Apr	03:00	12484				61.07	0.63	60.56	0.51	
04-Apr	09:00	12844				61.08	0.64	60.57	0.51	
04-Apr	15:00	13204				61.07	0.63	60.57	0.50	
04-Apr	21:00	13564				61.10	0.66	60.58	0.52	
05-Apr	03:00	13924				61.08	0.64	60.58	0.50	
05-Apr	09:00	14284				61.08	0.64	60.58	0.50	
05-Apr	15:00	14644				61.08	0.64	60.59	0.49	
05-Apr	21:00	15004				61.09	0.65	60.59	0.50	
06-Apr	03:00	15364				61.09	0.65	60.60	0.49	

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *HORMACHEA* PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *SI PROBE* STATIC WATER LEVEL (FT BMP): *60.44*

DIST. FROM PUMPED WELL: *3,700 FEET* COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA				ADJUSTED DEPTH TO WATER (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
				READINGS		DEPTH TO WATER (FT)	DRAW DOWN (FT)			
				REFERENCE	MEASURE					
06-Apr	09:00	15724				61.10	0.66	60.60	0.50	
06-Apr	15:00	16084				61.13	0.69	60.61	0.52	
06-Apr	21:00	16444				61.13	0.69	60.61	0.52	Daylight savings time begins at 2 am.
07-Apr	03:00	16744				61.14	0.70	60.62	0.52	Elapsed time adjusted -60 min.
07-Apr	09:00	17104				61.17	0.73	60.62	0.55	
07-Apr	15:00	17464				61.19	0.75	60.62	0.57	
07-Apr	21:00	17824				61.22	0.78	60.63	0.59	
08-Apr	03:00	18184				61.22	0.78	60.63	0.59	
08-Apr	09:00	18544				61.23	0.79	60.64	0.59	
08-Apr	15:00	18904				61.23	0.79	60.64	0.59	
08-Apr	21:00	19264				61.22	0.78	60.65	0.57	
09-Apr	03:00	19624				61.19	0.75	60.65	0.54	
09-Apr	09:00	19984				61.19	0.75	60.66	0.53	
09-Apr	15:00	20344				61.19	0.75	60.66	0.53	
09-Apr	21:00	20704				61.21	0.77	60.67	0.54	
10-Apr	03:00	21064				61.22	0.78	60.67	0.55	
10-Apr	09:00	21424				61.23	0.79	60.67	0.56	
10-Apr	15:00	21784				61.22	0.78	60.68	0.54	
10-Apr	21:00	22144				61.24	0.80	60.68	0.56	
11-Apr	03:00	22504				61.25	0.81	60.69	0.56	
11-Apr	09:00	22864				61.25	0.81	60.69	0.56	
11-Apr	15:00	23224				61.23	0.79	60.70	0.53	
11-Apr	21:00	23584				61.25	0.81	60.70	0.55	
12-Apr	03:00	23944				61.25	0.81	60.71	0.54	
12-Apr	09:00	24304				61.27	0.83	60.71	0.56	
12-Apr	15:00	24664				61.28	0.84	60.72	0.56	
12-Apr	21:00	25024				61.31	0.87	60.72	0.59	
13-Apr	03:00	25384				61.32	0.88	60.72	0.60	
13-Apr	09:00	25744				61.32	0.88	60.73	0.59	
13-Apr	15:00	26104				61.33	0.89	60.73	0.60	
13-Apr	21:00	26464				61.38	0.94	60.74	0.64	
14-Apr	03:00	26824				61.45	1.01	60.74	0.71	
14-Apr	09:00	27184				61.46	1.02	60.75	0.71	
14-Apr	15:00	27544				61.48	1.04	60.75	0.73	
14-Apr	21:00	27904				61.49	1.05	60.76	0.73	
15-Apr	03:00	28264				61.53	1.09	60.76	0.77	
15-Apr	09:00	28624				61.52	1.08	60.77	0.75	
15-Apr	15:00	28984				61.53	1.09	60.77	0.76	
15-Apr	21:00	29344				61.51	1.07	60.77	0.74	
16-Apr	03:00	29704				61.51	1.07	60.78	0.73	
16-Apr	09:00	30064				61.50	1.06	60.78	0.72	
16-Apr	15:00	30424				61.50	1.06	60.79	0.71	
16-Apr	21:00	30784				61.48	1.04	60.79	0.69	
17-Apr	03:00	31144				61.47	1.03	60.80	0.67	

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *HORMACHEA* PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *SI PROBE* STATIC WATER LEVEL (FT BMP): *60.44*

DIST. FROM PUMPED WELL: *3,700 FEET* COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t'	WATER LEVEL DATA: READINGS REFERENCE	READINGS MEASURE	DEPTH TO WATER (FT)	DRAW DOWN (FT)	ADJUSTED DEPTH TO WATER (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
17-Apr	09:00	31504				61.45	1.01	60.80	0.65	
17-Apr	15:00	31864				61.46	1.02	60.81	0.65	
17-Apr	21:00	32224				61.45	1.01	60.81	0.64	
18-Apr	03:00	32584				61.45	1.01	60.82	0.63	
18-Apr	09:00	32944				61.47	1.03	60.82	0.65	
18-Apr	15:00	33304				61.50	1.06	60.82	0.68	
18-Apr	21:00	33664				61.51	1.07	60.83	0.68	
19-Apr	03:00	34024				61.49	1.05	60.83	0.66	
19-Apr	09:00	34384				61.49	1.05	60.84	0.65	
19-Apr	15:00	34744				61.50	1.06	60.84	0.66	
19-Apr	21:00	35104				61.49	1.05	60.85	0.64	
20-Apr	03:00	35464				61.48	1.04	60.85	0.63	
20-Apr	09:00	35824				61.48	1.04	60.86	0.62	
20-Apr	15:00	36184				61.47	1.03	60.86	0.61	
20-Apr	21:00	36544				61.48	1.04	60.86	0.62	
21-Apr	03:00	36904				61.48	1.04	60.87	0.61	
21-Apr	09:00	37264				61.50	1.06	60.87	0.63	
21-Apr	15:00	37624				61.50	1.06	60.88	0.62	
21-Apr	21:00	37984				61.51	1.07	60.88	0.63	
22-Apr	03:00	38344				61.49	1.05	60.89	0.60	
22-Apr	09:00	38704				61.51	1.07	60.89	0.62	
22-Apr	15:00	39064				61.49	1.05	60.90	0.59	
22-Apr	21:00	39424				61.49	1.05	60.90	0.59	
23-Apr	03:00	39784				61.50	1.06	60.91	0.59	
23-Apr	09:00	40144				61.50	1.06	60.91	0.59	
23-Apr	15:00	40504				61.48	1.04	60.91	0.57	
23-Apr	21:00	40864				61.49	1.05	60.92	0.57	
24-Apr	03:00	41224				61.48	1.04	60.92	0.56	
24-Apr	09:00	41584				61.49	1.05	60.93	0.56	
24-Apr	15:00	41944				61.46	1.02	60.93	0.53	
24-Apr	21:00	42304				61.47	1.03	60.94	0.53	
25-Apr	03:00	42664				61.45	1.01	60.94	0.51	
25-Apr	09:00	43024				61.47	1.03	60.95	0.52	
25-Apr	10:00	43084				61.47	1.03	60.95	0.52	
25-Apr	11:00	43144				61.47	1.03	60.95	0.52	
25-Apr	11:05	43149	21574.5			61.47	1.03	60.95	0.52	
25-Apr	11:10	43154	8184.9			61.47	1.03	60.95	0.52	
25-Apr	11:15	43159	3596.6			61.47	1.03	60.95	0.52	
25-Apr	11:20	43164	2539.1			61.47	1.03	60.95	0.52	
25-Apr	11:25	43169	1962.2			61.47	1.03	60.95	0.52	
25-Apr	11:30	43174	1599.0			61.47	1.03	60.95	0.52	
25-Apr	11:45	43189	1028.3			61.47	1.03	60.95	0.52	
25-Apr	12:00	43204	758.0			61.47	1.03	60.95	0.52	
25-Apr	12:15	43219	600.3			61.46	1.02	60.95	0.51	

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *HORMACHEA* PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *SI PROBE* STATIC WATER LEVEL (FT BMP): *60.44*

DIST. FROM PUMPED WELL: *3,700 FEET* COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA READINGS REFERENCE	READINGS MEASURE	DEPTH TO WATER (FT)	DRAW DOWN (FT)	ADJUSTED DEPTH TO WATER (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
25-Apr	12:30	43234	496.9			61.46	1.02	60.95	0.51	
25-Apr	12:45	43249	424.0			61.46	1.02	60.95	0.51	
25-Apr	13:00	43264	369.8			61.46	1.02	60.95	0.51	
25-Apr	13:30	43294	294.5			61.46	1.02	60.95	0.51	
25-Apr	14:00	43324	244.8			61.46	1.02	60.95	0.50	
25-Apr	14:30	43354	209.4			61.45	1.01	60.95	0.49	
25-Apr	15:00	43384	183.1			61.44	1.00	60.95	0.49	
25-Apr	15:30	43414	162.6			61.44	1.00	60.95	0.48	
25-Apr	16:00	43444	146.3			61.43	0.99	60.95	0.48	
25-Apr	16:30	43474	132.9			61.43	0.98	60.95	0.47	
25-Apr	17:00	43504	121.9			61.42	0.98	60.95	0.46	
25-Apr	17:30	43534	112.5			61.41	0.97	60.95	0.45	
25-Apr	18:00	43564	104.5			61.40	0.96	60.95	0.45	
25-Apr	18:30	43594	97.5			61.40	0.96	60.95	0.44	
25-Apr	19:00	43624	91.5			61.40	0.96	60.95	0.45	
25-Apr	20:00	43684	81.3			61.40	0.96	60.95	0.45	
25-Apr	21:00	43744	73.3			61.40	0.96	60.96	0.44	
25-Apr	22:00	43804	66.7			61.40	0.96	60.96	0.44	
25-Apr	23:00	43864	61.2			61.40	0.96	60.96	0.44	
26-Apr	00:00	43924	56.5			61.40	0.96	60.96	0.44	
26-Apr	01:00	43984	52.5			61.39	0.95	60.96	0.43	
26-Apr	02:00	44044	49.1			61.39	0.95	60.96	0.43	
26-Apr	03:00	44104	46.1			61.38	0.94	60.96	0.42	
26-Apr	04:00	44164	43.4			61.38	0.94	60.96	0.41	
26-Apr	05:00	44224	41.1			61.38	0.94	60.96	0.41	
26-Apr	06:00	44284	38.9			61.38	0.94	60.96	0.41	
26-Apr	07:00	44344	37.0			61.38	0.94	60.96	0.41	
26-Apr	08:00	44404	35.3			61.38	0.94	60.96	0.41	
26-Apr	09:00	44464	33.8			61.38	0.94	60.96	0.41	
26-Apr	10:00	44524	32.3			61.38	0.94	60.97	0.41	
26-Apr	11:00	44584	31.0			61.38	0.94	60.97	0.41	
26-Apr	13:00	44704	28.7			61.37	0.93	60.97	0.40	
26-Apr	15:00	44824	26.7			61.35	0.91	60.97	0.38	
26-Apr	17:00	44944	25.0			61.33	0.89	60.97	0.36	
26-Apr	18:00	45004	24.2			61.33	0.89	60.97	0.36	
26-Apr	21:00	45184	22.2			61.32	0.88	60.97	0.35	
27-Apr	00:00	45364	20.5			61.32	0.88	60.98	0.34	
27-Apr	03:00	45544	19.0			61.33	0.89	60.98	0.35	
27-Apr	06:00	45724	17.7			61.32	0.88	60.98	0.33	
27-Apr	09:00	45904	16.6			61.33	0.89	60.98	0.35	
27-Apr	12:00	46084	15.7			61.33	0.89	60.99	0.34	
27-Apr	15:00	46264	14.8			61.32	0.88	60.99	0.33	
27-Apr	21:00	46624	13.4			61.30	0.86	60.99	0.31	
28-Apr	03:00	46984	12.2			61.31	0.87	61.00	0.31	

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *HORMACHEA* PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *SI PROBE* STATIC WATER LEVEL (FT BMP): *60.44*

DIST. FROM PUMPED WELL: *3,700 FEET* COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t'	WATER LEVEL DATA: READINGS REFERENCE	READINGS MEASURE	DEPTH TO WATER (FT)	DRAW DOWN (FT)	ADJUSTED DEPTH TO WATER (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
28-Apr	09:00	47344	11.3			61.31	0.87	61.00	0.30	
28-Apr	15:00	47704	10.5			61.29	0.85	61.01	0.28	
28-Apr	21:00	48064	9.8			61.25	0.81	61.01	0.24	
29-Apr	03:00	48424	9.2			61.25	0.81	61.01	0.24	
29-Apr	09:00	48784	8.7			61.29	0.85	61.02	0.27	
29-Apr	15:00	49144	8.2			61.27	0.83	61.02	0.25	
29-Apr	21:00	49504	7.8			61.24	0.80	61.03	0.21	
30-Apr	03:00	49864	7.4			61.25	0.81	61.03	0.22	
30-Apr	09:00	50224	7.1			61.24	0.80	61.04	0.20	
30-Apr	15:00	50584	6.8			61.23	0.79	61.04	0.19	
30-Apr	21:00	50944	6.5			61.17	0.73	61.05	0.12	
01-May	03:00	51304	6.3			61.17	0.73	61.05	0.12	
01-May	09:00	51664	6.1			61.16	0.72	61.06	0.10	
01-May	15:00	52024	5.9			61.15	0.71	61.06	0.09	
01-May	21:00	52384	5.7			61.16	0.72	61.06	0.10	
02-May	03:00	52744	5.5			61.14	0.70	61.07	0.07	
02-May	09:00	53104	5.3			61.13	0.69	61.07	0.06	
02-May	15:00	53464	5.2			61.17	0.73	61.08	0.09	
03-May	10:00	54604	4.8			61.38	0.94	61.09	0.29	
03-May	15:00	54904	4.7			61.38	0.94	61.10	0.28	
03-May	21:00	55264	4.6			61.43	0.99	61.10	0.33	
04-May	03:00	55624	4.5			61.46	1.02	61.11	0.35	
04-May	09:00	55984	4.4			61.47	1.03	61.11	0.36	
04-May	15:00	56344	4.3			61.49	1.05	61.11	0.38	
04-May	21:00	56704	4.2			61.58	1.14	61.12	0.46	
05-May	03:00	57064	4.1			61.53	1.09	61.12	0.41	
05-May	09:00	57424	4.0			61.51	1.07	61.13	0.38	
05-May	15:00	57784	3.9			61.49	1.05	61.13	0.36	
06-May	03:00	58504	3.8			61.43	0.99	61.14	0.29	
06-May	09:00	58864	3.7			61.41	0.97	61.15	0.26	
06-May	12:03	59047	3.7			61.36	0.92	61.15	0.21	

FLOATING FEATHER IRRIGATION DISTRICT WELL

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *FLOATING FEATHER IRRIGATION* PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* M.P. FOR WL'S: *TOP OF CASING* ELEV. :

PUMPING RATES: *750.0 Gallons per minute* PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *AIRLINE @ 119.10 FT BELOW PUMP BASE* STATIC WATER LEVEL (FT BMP): *86.8*

DIST. FROM PUMPED WELL: *5,000 FEET* COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	AIRLINE PRESSURE (PSI)	WATER LEVEL DATA: DEPTH TO WATER (FT)	DRAW DOWN (FT)	ADJUSTED DEPTH TO WATER (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
19-Mar	14:20	-9876			89.2	2.44			
23-Mar	13:25	-4171		13.5	87.9	1.16			
23-Mar	15:40	-4036		14.0	86.8	0.00			
25-Mar	17:00	-1076		14.0	86.8	0.00			
26-Mar	09:00	-116		14.0	86.8	0.00			
26-Mar	12:58	122		14.0	86.8	0.00			
26-Mar	13:39	163		14.0	86.8	0.00			
26-Mar	14:15	199		14.0	86.8	0.00			
26-Mar	14:55	239		14.0	86.8	0.00			
26-Mar	15:20	264		14.0	86.8	0.00			
26-Mar	15:45	289		14.0	86.8	0.00			
26-Mar	16:15	319		14.0	86.8	0.00			
26-Mar	16:58	362		14.0	86.8	0.00			
26-Mar	18:15	439		14.0	86.8	0.00			
26-Mar	19:24	508		14.0	86.8	0.00			
26-Mar	20:18	562		14.0	86.8	0.00			
26-Mar	21:15	619		14.0	86.8	0.00			
27-Mar	09:50	1374		13.9	87.0	0.23			
27-Mar	12:58	1562		14.0	86.8	0.00			
27-Mar	18:58	1922		13.7	87.5	0.69			
27-Mar	23:56	2220		13.7	87.5	0.69			
28-Mar	09:10	2774		14.0	86.8	0.00			
28-Mar	13:41	3045		14.0	86.8	0.00			
28-Mar	18:50	3354		13.7	87.5	0.69			
28-Mar	23:30	3634		13.7	87.5	0.69			
29-Mar	10:26	4290		13.7	87.5	0.69			
29-Mar	18:58	4802		13.7	87.5	0.69			
30-Mar	00:07	5111		13.7	87.5	0.69			
30-Mar	09:22	5666		13.7	87.5	0.69			
30-Mar	13:49	5933		13.7	87.5	0.69			
30-Mar	19:10	6254		13.7	87.5	0.69			
30-Mar	23:16	6500		13.7	87.5	0.69			
31-Mar	08:57	7081		13.5	87.9	1.16			
31-Mar	14:48	7432		14.0	86.8	0.00			
31-Mar	23:59	7983		13.7	87.5	0.69			
01-Apr	10:05	8589		14.0	86.8	0.00			
01-Apr	16:29	8973		14.0	86.8	0.00			
01-Apr	23:10	9374		13.7	87.5	0.69			
02-Apr	08:16	9920		14.0	86.8	0.00			
02-Apr	15:10	10334		14.0	86.8	0.00			
02-Apr	22:45	10789		13.5	87.9	1.16			
02-Apr	22:45	10789		13.5	87.9	1.16			
03-Apr	09:00	11404		14.0	86.8	0.00			
03-Apr	15:20	11784		14.0	86.8	0.00			

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *FLOATING FEATHER IRRIGATION* PUMPING / OBSERVATION WELL
TYPE OF DATA: *DRAWDOWN*
PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* M.P. FOR WL'S: *TOP OF CASING* ELEV. :
PUMPING RATES: *750.0 Gallons per minute* PUMP ON: DATE *26-Mar-91* TIME *10:56:00*
HOW Q MEASURED: *FLOWMETER* PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*
HOW WL's MEASURED: *AIRLINE @ 119.10 FT BELOW PUMP BASE* STATIC WATER LEVEL (FT BMP): *86.8*
DIST. FROM PUMPED WELL: *5,000 FEET* COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	AIRLINE PRESSURE (PSI)	WATER LEVEL DATA: DEPTH TO WATER (FT)	DRAW DOWN (FT)	ADJUSTED DEPTH TO WATER (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
03-Apr	20:50	12114		13.5	87.9	1.16			
04-Apr	08:47	12831		14.0	86.8	0.00			
04-Apr	15:32	13236		14.0	86.8	0.00			
04-Apr	23:11	13695		14.0	86.8	0.00			
05-Apr	09:58	14342		14.0	86.8	0.00			
05-Apr	16:34	14738		14.0	86.8	0.00			
05-Apr	23:06	15130		14.0	86.8	0.00			
06-Apr	10:07	15791		14.0	86.8	0.00			
06-Apr	17:07	16211		14.0	86.8	0.00			
06-Apr	22:47	16551		14.0	86.8	0.00			Daylight savings begins at 2 am.
07-Apr	10:29	17193		14.0	86.8	0.00			All elapsed time adjusted -60 min.
07-Apr	17:29	17613		14.0	86.8	0.00			
08-Apr	00:20	18024		13.7	87.5	0.69			
08-Apr	09:25	18569		13.7	87.5	0.69			
08-Apr	10:03	18607		13.7	87.5	0.69			
08-Apr	16:18	18982		13.7	87.5	0.69			
08-Apr	20:52	19256		13.5	87.9	1.16			
09-Apr	09:55	20039		13.5	87.9	1.16			
09-Apr	17:05	20469		13.5	87.9	1.16			
09-Apr	23:24	20848		13.2	88.6	1.85			
10-Apr	09:57	21481		13.5	87.9	1.16			
10-Apr	16:54	21898		13.5	87.9	1.16			
10-Apr	22:33	22237		13.5	87.9	1.16			
11-Apr	10:12	22936		13.5	87.9	1.16			
11-Apr	17:10	23354		13.5	87.9	1.16			
12-Apr	00:17	23781		13.2	88.6	1.85			
12-Apr	10:22	24386		13.7	87.5	0.69			
12-Apr	15:25	24689		13.5	87.9	1.16			
12-Apr	21:22	25046		13.5	87.9	1.16			
13-Apr	09:25	25769		13.5	87.9	1.16			
13-Apr	14:41	26085		13.5	87.9	1.16			
13-Apr	21:47	26511		13.2	88.6	1.85			
14-Apr	08:58	27182		13.5	87.9	1.16			
14-Apr	17:32	27696		13.5	87.9	1.16			
14-Apr	22:38	28002		13.5	87.9	1.16			
15-Apr	10:25	28709		13.5	87.9	1.16			
15-Apr	17:20	29124		13.5	87.9	1.16			
15-Apr	21:38	29382		13.5	87.9	1.16			
16-Apr	10:20	30144		13.2	88.6	1.85			
16-Apr	18:36	30640		13.5	87.9	1.16			
17-Apr	01:41	31065		13.2	88.6	1.85			
17-Apr	12:36	31720		13.5	87.9	1.16			
17-Apr	19:14	32118		13.5	87.9	1.16			
18-Apr	00:24	32428		13.5	87.9	1.16			

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *FLOATING FEATHER IRRIGATION* PUMPING / OBSERVATION WELL
TYPE OF DATA: *DRAWDOWN*
PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* M.P. FOR WL'S: *TOP OF CASING* ELEV.:
PUMPING RATES: *750.0 Gallons per minute* PUMP ON: DATE *26-Mar-91* TIME *10:56:00*
HOW Q MEASURED: *FLOWMETER* PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*
HOW WL's MEASURED: *AIRLINE @ 119.10 FT BELOW PUMP BASE* STATIC WATER LEVEL (FT BMP): *86.8*
DIST. FROM PUMPED WELL: *5,000 FEET* COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	AIRLINE PRESSURE (PSI)	WATER LEVEL DATA: DEPTH TO WATER (FT)	DRAW DOWN (FT)	ADJUSTED DEPTH TO WATER (FT)	ADJUSTED DRAW DOWN (FT)	REMARKS
18-Apr	10:54	33058		13.5	87.9	1.16			
18-Apr	19:43	33587		13.2	88.6	1.85			
18-Apr	23:59	33843		13.1	88.8	2.08			
19-Apr	10:53	34497		13.5	87.9	1.16			
19-Apr	15:50	34794		13.5	87.9	1.16			
19-Apr	23:52	35276		13.4	88.1	1.39			
20-Apr	10:42	35926		13.5	87.9	1.16			
20-Apr	20:40	36524		13.2	88.6	1.85			
21-Apr	00:09	36733		13.5	87.9	1.16			
21-Apr	11:24	37408		13.5	87.9	1.16			
21-Apr	17:12	37756		13.5	87.9	1.16			
21-Apr	22:04	38048		13.5	87.9	1.16			
22-Apr	10:59	38823		13.5	87.9	1.16			
22-Apr	15:35	39099		13.5	87.9	1.16			
22-Apr	21:10	39434		13.2	88.6	1.85			
23-Apr	09:39	40183		13.5	87.9	1.16			
23-Apr	17:56	40680		13.5	87.9	1.16			
23-Apr	22:49	40973		13.5	87.9	1.16			
24-Apr	09:58	41642		13.2	88.6	1.85			
24-Apr	16:52	42056		13.2	88.6	1.85			
24-Apr	23:00	42424		13.2	88.6	1.85			
25-Apr	09:50	43074		13.2	88.6	1.85			
25-Apr	16:04	43448	144.3	13.2	88.6	1.85			
25-Apr	17:24	43528	114.2	13.2	88.6	1.85			
25-Apr	18:40	43604	95.4	13.2	88.6	1.85			
25-Apr	19:50	43674	82.9	13.2	88.6	1.85			
26-Apr	00:15	43939	55.5	13.1	88.8	2.08			
26-Apr	08:35	44439	34.4	13.1	88.8	2.08			
26-Apr	14:02	44766	27.7	13.2	88.6	1.85			
26-Apr	17:52	44996	24.3	13.2	88.6	1.85			
26-Apr	22:14	45258	21.4	13.2	88.6	1.85			
27-Apr	01:22	45446	19.8	13.2	88.6	1.85			
27-Apr	08:03	45847	17.0	13.2	88.6	1.85			
27-Apr	19:26	46530	13.8	13.1	88.8	2.08			
27-Apr	23:42	46786	12.9	13.3	88.4	1.66			
28-Apr	09:54	47398	11.1	13.5	87.9	1.16			
28-Apr	15:02	47706	10.5	13.2	88.6	1.85			
28-Apr	21:46	48110	9.7	13.2	88.6	1.85			
29-Apr	11:03	48907	8.5	13.2	88.6	1.85			

DAY WELL

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *DAY* — PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* — M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* — PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* — PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *SI PROBE & STEVENS RECORDER* — STATIC WATER LEVEL (FT BMP): *201.24*

DIST. FROM PUMPED WELL: *7,500 FEET* — COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t'	WATER LEVEL DATA: READING REFERENCE	READING MEASURE	DEPTH TO WATER (FT)	DRAWDOWN (FT)	REMARKS
23-Mar	15:00	-4076.0				201.50	0.26	
23-Mar	18:30	-3866.0				201.39	0.15	
23-Mar	23:00	-3596.0				201.39	0.15	
24-Mar	02:30	-3386.0				201.28	0.04	
24-Mar	06:30	-3146.0				201.28	0.04	
24-Mar	09:00	-2996.0				201.34	0.10	
24-Mar	10:00	-2936.0				201.44	0.20	
24-Mar	14:15	-2681.0				201.50	0.26	
24-Mar	17:30	-2486.0				201.50	0.26	
24-Mar	22:00	-2216.0				201.37	0.13	
25-Mar	03:00	-1916.0				201.15	-0.09	
25-Mar	04:30	-1826.0				201.15	-0.09	
25-Mar	06:30	-1706.0				201.04	-0.20	
25-Mar	07:30	-1646.0				201.04	-0.20	
25-Mar	09:30	-1526.0				201.10	-0.14	
25-Mar	13:00	-1316.0				201.10	-0.14	
25-Mar	15:40	-1156.0				201.06	-0.18	
25-Mar	21:30	-806.0				201.05	-0.19	
26-Mar	05:00	-356.0				201.11	-0.13	
26-Mar	07:00	-236.0				201.11	-0.13	
26-Mar	10:00	-56.0				201.24	0.00	
26-Mar	18:00	424.0				201.24	0.00	
26-Mar	22:00	664.0				201.34	0.10	
27-Mar	02:00	904.0				201.34	0.10	
27-Mar	04:00	1024.0				201.41	0.17	
27-Mar	06:30	1174.0				201.41	0.17	
27-Mar	07:15	1219.0				201.47	0.23	
27-Mar	09:00	1324.0				201.50	0.26	
27-Mar	09:10	1334.0				201.57	0.33	
27-Mar	10:00	1384.0				201.58	0.34	
27-Mar	13:00	1564.0				201.58	0.34	
27-Mar	16:30	1774.0				201.56	0.32	
27-Mar	19:00	1924.0				201.56	0.32	
27-Mar	19:30	1954.0				201.59	0.35	
27-Mar	21:20	2064.0				201.59	0.35	
27-Mar	21:30	2074.0				201.63	0.39	
28-Mar	02:00	2344.0				201.61	0.37	
28-Mar	06:30	2614.0				201.61	0.37	
28-Mar	07:45	2689.0				201.62	0.38	
28-Mar	08:00	2704.0				201.64	0.40	
28-Mar	11:15	2899.0				201.64	0.40	
28-Mar	11:20	2904.0				201.66	0.42	
28-Mar	11:40	2924.0				201.66	0.42	
28-Mar	13:30	3034.0				201.61	0.37	
28-Mar	16:30	3214.0				201.59	0.35	
28-Mar	19:30	3394.0				201.59	0.35	
28-Mar	22:00	3544.0				201.71	0.47	

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *DAY* — PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* — M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* — PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* — PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *SI PROBE & STEVENS RECORDER* — STATIC WATER LEVEL (FT BMP): *201.24*

DIST. FROM PUMPED WELL: *7,500 FEET* — COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA: READING REFERENCE	WATER LEVEL DATA: READING MEASURE	DEPTH TO WATER (FT)	DRAW DOWN (FT)	REMARKS
29-Mar	07:00	4084.0				201.70	0.46	
29-Mar	07:30	4114.0				201.78	0.54	
29-Mar	08:00	4144.0				201.85	0.61	
29-Mar	09:30	4234.0				201.95	0.71	
29-Mar	10:00	4264.0				201.95	0.71	
29-Mar	10:20	4284.0				202.01	0.77	
29-Mar	11:40	4364.0				202.04	0.80	
29-Mar	11:45	4369.0				202.06	0.82	
29-Mar	12:25	4409.0				202.06	0.82	
29-Mar	13:15	4459.0				201.95	0.71	
29-Mar	14:15	4519.0				201.91	0.67	
29-Mar	17:00	4684.0				201.81	0.57	
29-Mar	18:30	4774.0				201.81	0.57	
29-Mar	18:45	4789.0				201.77	0.53	
29-Mar	19:20	4824.0				201.77	0.53	
29-Mar	22:20	5004.0				201.76	0.52	
30-Mar	02:15	5239.0				201.67	0.43	
30-Mar	05:45	5449.0				201.64	0.40	
30-Mar	08:00	5584.0				201.64	0.40	
30-Mar	09:00	5644.0				201.66	0.42	
30-Mar	09:15	5659.0				201.68	0.44	
30-Mar	13:45	5929.0				201.66	0.42	
30-Mar	14:00	5944.0				201.62	0.38	
30-Mar	15:00	6004.0				201.62	0.38	
30-Mar	15:50	6054.0				201.74	0.50	
30-Mar	17:55	6179.0				201.75	0.51	
30-Mar	18:00	6184.0				201.75	0.51	
30-Mar	20:00	6304.0				201.75	0.51	
31-Mar	00:00	6544.0				201.61	0.37	
31-Mar	02:30	6694.0				201.62	0.38	
31-Mar	04:05	6789.0				201.71	0.47	
31-Mar	04:35	6819.0				201.71	0.47	
31-Mar	06:45	6949.0				201.67	0.43	
31-Mar	07:45	7009.0				201.67	0.43	
31-Mar	08:30	7054.0				201.71	0.47	
31-Mar	11:00	7204.0				201.71	0.47	
31-Mar	12:15	7279.0				201.84	0.60	
31-Mar	14:10	7394.0				201.86	0.62	
31-Mar	14:45	7429.0				201.93	0.69	
31-Mar	15:45	7489.0				201.94	0.70	
31-Mar	16:00	7504.0				202.03	0.79	
31-Mar	17:00	7564.0				202.03	0.79	
31-Mar	18:00	7624.0				202.01	0.77	
31-Mar	19:30	7714.0				201.91	0.67	
31-Mar	20:30	7774.0				201.91	0.67	
31-Mar	22:30	7894.0				201.71	0.47	
31-Mar	23:00	7924.0				201.71	0.47	

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *DAY* — PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* — M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* — PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* — PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *SI PROBE & STEVENS RECORDER* — STATIC WATER LEVEL (FT BMP): *201.24*

DIST. FROM PUMPED WELL: *7,500 FEET* — COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA: READING REFERENCE	READING MEASURE	DEPTH TO WATER (FT)	DRAW DOWN (FT)	REMARKS
01-Apr	00:00	7984.0				201.62	0.38	
01-Apr	01:00	8044.0				201.58	0.34	
01-Apr	02:00	8104.0				201.56	0.32	
01-Apr	02:30	8134.0				201.55	0.31	
01-Apr	04:00	8224.0				201.55	0.31	
01-Apr	05:00	8284.0				201.54	0.30	
01-Apr	05:45	8329.0				201.50	0.26	
01-Apr	07:00	8404.0				201.50	0.26	
01-Apr	09:15	8539.0				201.62	0.38	
01-Apr	09:10	8534.0				201.65	0.41	
01-Apr	10:55	8639.0				201.65	0.41	
01-Apr	11:05	8649.0				201.70	0.46	
01-Apr	11:25	8669.0				201.70	0.46	
01-Apr	12:00	8704.0				201.63	0.39	
01-Apr	12:45	8749.0				201.60	0.36	
01-Apr	14:00	8824.0				201.60	0.36	
01-Apr	14:45	8869.0				201.61	0.37	
01-Apr	15:30	8914.0				201.56	0.32	
01-Apr	17:30	9034.0				201.55	0.31	
01-Apr	18:30	9094.0				201.64	0.40	
01-Apr	19:50	9174.0				201.93	0.69	
01-Apr	20:10	9194.0				201.93	0.69	
02-Apr	00:00	9424.0				201.66	0.42	
02-Apr	01:30	9514.0				201.64	0.40	
02-Apr	03:00	9604.0				201.64	0.40	
02-Apr	04:10	9674.0				201.69	0.45	
02-Apr	07:15	9859.0				201.69	0.45	
02-Apr	08:00	9904.0				201.79	0.55	
02-Apr	10:45	10069.0				201.81	0.57	
02-Apr	11:30	10114.0				201.84	0.60	
02-Apr	11:40	10124.0				201.86	0.62	
02-Apr	12:10	10154.0				201.86	0.62	
02-Apr	14:45	10309.0				201.79	0.55	
02-Apr	15:00	10324.0				201.74	0.50	
02-Apr	20:00	10624.0				201.73	0.49	
02-Apr	20:30	10654.0				201.76	0.52	
03-Apr	06:45	11269.0				201.72	0.48	
03-Apr	07:35	11319.0				201.79	0.55	
03-Apr	08:55	11399.0				201.81	0.57	
03-Apr	09:45	11449.0				201.82	0.58	
03-Apr	11:00	11524.0				201.94	0.70	
03-Apr	11:15	11539.0				202.01	0.77	
03-Apr	11:50	11574.0				202.01	0.77	
03-Apr	15:00	11764.0				202.13	0.89	
03-Apr	17:00	11884.0				202.23	0.99	
03-Apr	17:30	11914.0				202.27	1.03	
03-Apr	18:00	11944.0				202.27	1.03	

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *DAY* — PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* — M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* — PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* — PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *SI PROBE & STEVENS RECORDER* — STATIC WATER LEVEL (FT BMP): *201.24*

DIST. FROM PUMPED WELL: *7,500 FEET* — COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA: READING REFERENCE	READING MEASURE	DEPTH TO WATER (FT)	DRAWDOWN (FT)	REMARKS
03-Apr	21:00	12124.0				202.05	0.81	
03-Apr	21:30	12154.0				202.04	0.80	
04-Apr	00:00	12304.0				201.91	0.67	
04-Apr	02:30	12454.0				201.86	0.62	
04-Apr	04:00	12544.0				201.86	0.62	
04-Apr	04:30	12574.0				201.89	0.65	
04-Apr	05:00	12604.0				201.89	0.65	
04-Apr	05:30	12634.0				201.85	0.61	
04-Apr	06:15	12679.0				201.84	0.60	
04-Apr	10:20	12924.0				201.85	0.61	
04-Apr	16:00	13264.0				201.62	0.38	
04-Apr	17:15	13339.0				201.62	0.38	
04-Apr	17:30	13354.0				201.66	0.42	
04-Apr	18:00	13384.0				201.66	0.42	
04-Apr	19:30	13474.0				201.60	0.36	
04-Apr	23:05	13689.0				201.57	0.33	
05-Apr	06:00	14104.0				201.40	0.16	
05-Apr	07:05	14169.0				201.40	0.16	
05-Apr	07:30	14194.0				201.43	0.19	
05-Apr	09:45	14329.0				201.45	0.21	
05-Apr	10:10	14354.0				201.45	0.21	
05-Apr	10:15	14359.0				201.49	0.25	
05-Apr	14:45	14629.0				201.43	0.19	
05-Apr	15:45	14689.0				201.39	0.15	
05-Apr	16:45	14749.0				201.39	0.15	
05-Apr	17:45	14809.0				201.40	0.16	
05-Apr	18:30	14854.0				201.42	0.18	
05-Apr	19:10	14894.0				201.53	0.29	
05-Apr	22:45	15109.0				201.53	0.29	
06-Apr	03:00	15364.0				201.40	0.16	
06-Apr	04:00	15424.0				201.40	0.16	
06-Apr	04:15	15439.0				201.42	0.18	
06-Apr	05:15	15499.0				201.42	0.18	
06-Apr	06:15	15559.0				201.36	0.12	
06-Apr	08:40	15704.0				201.36	0.12	
06-Apr	09:40	15764.0				201.43	0.19	
06-Apr	11:30	15874.0				201.46	0.22	
06-Apr	14:00	16024.0				201.46	0.22	
06-Apr	14:45	16069.0				201.43	0.19	
06-Apr	15:30	16114.0				201.43	0.19	
06-Apr	16:00	16144.0				201.41	0.17	
06-Apr	19:45	16369.0				201.43	0.19	
06-Apr	21:15	16459.0				201.43	0.19	
07-Apr	00:00	16624.0				201.39	0.15	DAYLIGHT SAVING TIME BEGAN @ 2 AM
07-Apr	06:10	16934.0				201.40	0.16	ELAPSED TIME ADJUSTED -60 MIN.
07-Apr	06:15	16939.0				201.42	0.18	
07-Apr	07:30	17014.0				201.42	0.18	

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *DAY* — PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* — M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* — PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* — PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *SI PROBE & STEVENS RECORDER* — STATIC WATER LEVEL (FT BMP): *201.24*

DIST. FROM PUMPED WELL: *7,500 FEET* — COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t'	WATER LEVEL DATA: READING REFERENCE	READING MEASURE	DEPTH TO WATER (FT)	DRAW DOWN (FT)	REMARKS
07-Apr	10:30	17194.0				201.57	0.33	
07-Apr	11:45	17269.0				201.69	0.45	
07-Apr	13:00	17344.0				201.68	0.44	
07-Apr	13:30	17374.0				201.68	0.44	
07-Apr	14:00	17404.0				201.69	0.45	
07-Apr	15:10	17474.0				201.68	0.44	
07-Apr	15:30	17494.0				201.62	0.38	
07-Apr	17:00	17584.0				201.60	0.36	
07-Apr	17:00	17584.0				201.60	0.36	
07-Apr	17:45	17629.0				201.60	0.36	
07-Apr	18:00	17644.0				201.63	0.39	
07-Apr	20:30	17794.0				201.64	0.40	
07-Apr	21:15	17839.0				201.71	0.47	
07-Apr	22:30	17914.0				201.70	0.46	
07-Apr	23:00	17944.0				201.68	0.44	
08-Apr	00:30	18034.0				201.68	0.44	
08-Apr	02:00	18124.0				201.61	0.37	
08-Apr	03:00	18184.0				201.59	0.35	
08-Apr	05:30	18334.0				201.59	0.35	
08-Apr	05:00	18304.0				201.63	0.39	
08-Apr	07:00	18424.0				201.63	0.39	
08-Apr	07:30	18454.0				201.68	0.44	
08-Apr	08:30	18514.0				201.69	0.45	
08-Apr	09:15	18559.0				201.75	0.51	
08-Apr	12:00	18724.0				201.75	0.51	
08-Apr	13:00	18784.0				201.77	0.53	
08-Apr	13:45	18829.0				201.77	0.53	
08-Apr	15:15	18919.0				201.72	0.48	
08-Apr	17:00	19024.0				201.72	0.48	
08-Apr	18:00	19084.0				201.62	0.38	
08-Apr	19:00	19144.0				201.64	0.40	
08-Apr	19:30	19174.0				201.64	0.40	
08-Apr	20:00	19204.0				201.62	0.38	
08-Apr	20:30	19234.0				201.62	0.38	
08-Apr	21:45	19309.0				201.68	0.44	
08-Apr	22:30	19354.0				201.68	0.44	
09-Apr	00:00	19444.0				201.61	0.37	
09-Apr	02:00	19564.0				201.55	0.31	
09-Apr	03:30	19654.0				201.55	0.31	
09-Apr	04:15	19699.0				201.51	0.27	
09-Apr	06:15	19819.0				201.51	0.27	
09-Apr	07:00	19864.0				201.49	0.25	
09-Apr	07:45	19909.0				201.49	0.25	
09-Apr	09:45	20029.0				201.54	0.30	
09-Apr	11:00	20104.0				201.57	0.33	
09-Apr	12:45	20209.0				201.57	0.33	
09-Apr	13:00	20224.0				201.59	0.35	

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *DAY* — PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* — M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* — PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* — PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *SI PROBE & STEVENS RECORDER* — STATIC WATER LEVEL (FT BMP): *201.24*

DIST. FROM PUMPED WELL: *7,500 FEET* — COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t'	WATER LEVEL DATA: READING REFERENCE	READING MEASURE	DEPTH TO WATER (FT)	DRAW DOWN (FT)	REMARKS
09-Apr	13:30	20254.0				201.59	0.35	
09-Apr	15:30	20374.0				201.48	0.24	
09-Apr	16:30	20434.0				201.48	0.24	
09-Apr	17:30	20494.0				201.46	0.22	
09-Apr	18:45	20569.0				201.45	0.21	
09-Apr	19:00	20584.0				201.47	0.23	
09-Apr	21:30	20734.0				201.47	0.23	
09-Apr	23:00	20824.0				201.52	0.28	
09-Apr	23:30	20854.0				201.52	0.28	
10-Apr	00:30	20914.0				201.49	0.25	
10-Apr	04:30	21154.0				201.44	0.20	
10-Apr	05:30	21214.0				201.44	0.20	
10-Apr	08:15	21379.0				201.45	0.21	
10-Apr	08:50	21414.0				201.51	0.27	
10-Apr	09:30	21454.0				201.52	0.28	
10-Apr	14:00	21724.0				201.53	0.29	
10-Apr	14:30	21754.0				201.49	0.25	
10-Apr	15:45	21829.0				201.44	0.20	
10-Apr	16:50	21894.0				201.44	0.20	
10-Apr	20:15	22099.0				201.51	0.27	
11-Apr	06:00	22684.0				201.39	0.15	
11-Apr	06:30	22714.0				201.39	0.15	
11-Apr	08:30	22834.0				201.48	0.24	
11-Apr	12:00	23044.0				201.48	0.24	
11-Apr	14:30	23194.0				201.39	0.15	
11-Apr	18:17	23421.0				201.35	0.11	
11-Apr	20:00	23524.0				201.35	0.11	
11-Apr	22:00	23644.0				201.40	0.16	
11-Apr	23:15	23719.0				201.40	0.16	
12-Apr	00:15	23779.0				201.37	0.13	
12-Apr	01:15	23839.0				201.36	0.12	
12-Apr	03:15	23959.0				201.32	0.08	
12-Apr	04:15	24019.0				201.32	0.08	
12-Apr	05:15	24079.0				201.37	0.13	
12-Apr	05:45	24109.0				201.37	0.13	
12-Apr	06:00	24124.0				201.35	0.11	
12-Apr	06:30	24154.0				201.35	0.11	
12-Apr	07:30	24214.0				201.38	0.14	
12-Apr	08:00	24244.0				201.42	0.18	
12-Apr	09:15	24319.0				201.44	0.20	
12-Apr	10:30	24394.0				201.52	0.28	
12-Apr	12:00	24484.0				201.52	0.28	
12-Apr	12:05	24489.0				201.57	0.33	
12-Apr	12:45	24529.0				201.57	0.33	
12-Apr	13:00	24544.0				201.53	0.29	
12-Apr	15:00	24664.0				201.51	0.27	
12-Apr	16:50	24774.0				201.51	0.27	

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *DAY* — PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* — M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* — PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* — PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *SI PROBE & STEVENS RECORDER* — STATIC WATER LEVEL (FT BMP): *201.24*

DIST. FROM PUMPED WELL: *7,500 FEET* — COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t'	WATER LEVEL DATA: READING REFERENCE	READING MEASURE	DEPTH TO WATER (FT)	DRAW DOWN (FT)	REMARKS
12-Apr	17:20	24804.0				201.55	0.31	
12-Apr	18:30	24874.0				201.55	0.31	
12-Apr	20:45	25009.0				201.57	0.33	
12-Apr	22:00	25084.0				201.62	0.38	
12-Apr	23:30	25174.0				201.62	0.38	
13-Apr	00:00	25204.0				201.61	0.37	
13-Apr	03:30	25414.0				201.60	0.36	
13-Apr	07:00	25624.0				201.58	0.34	
13-Apr	07:30	25654.0				201.57	0.33	
13-Apr	08:30	25714.0				201.57	0.33	
13-Apr	10:00	25804.0				201.64	0.40	
13-Apr	11:00	25864.0				201.70	0.46	
13-Apr	11:15	25879.0				201.78	0.54	
13-Apr	12:20	25944.0				201.79	0.55	
13-Apr	12:35	25959.0				201.80	0.56	
13-Apr	14:20	26064.0				201.80	0.56	
13-Apr	14:45	26089.0				201.88	0.64	
13-Apr	16:05	26169.0				201.88	0.64	
13-Apr	16:45	26209.0				201.93	0.69	
13-Apr	19:00	26344.0				202.19	0.95	
13-Apr	20:30	26434.0				202.04	0.80	
13-Apr	21:30	26494.0				202.09	0.85	
14-Apr	00:00	26644.0				201.82	0.58	
14-Apr	05:00	26944.0				201.58	0.34	
14-Apr	08:00	27124.0				201.53	0.29	
14-Apr	18:00	27724.0				201.53	0.29	
14-Apr	19:00	27784.0				201.76	0.52	
14-Apr	20:00	27844.0				201.76	0.52	
14-Apr	23:00	28024.0				201.70	0.46	
15-Apr	00:00	28084.0				201.58	0.34	
15-Apr	02:00	28204.0				201.54	0.30	
15-Apr	04:00	28324.0				201.52	0.28	
15-Apr	11:00	28744.0				201.57	0.33	
15-Apr	18:00	29164.0				201.33	0.09	
16-Apr	00:00	29524.0				201.33	0.09	
16-Apr	04:00	29764.0				201.24	0.00	
16-Apr	08:00	30004.0				201.24	0.00	
16-Apr	10:00	30124.0				201.28	0.04	
16-Apr	12:00	30244.0				201.39	0.15	
16-Apr	19:00	30664.0				201.30	0.06	
16-Apr	22:00	30844.0				201.30	0.06	
17-Apr	02:00	31084.0				201.31	0.07	
17-Apr	06:00	31324.0				201.26	0.02	
17-Apr	07:00	31384.0				201.26	0.02	
17-Apr	10:00	31564.0				201.36	0.12	
17-Apr	18:00	32044.0				201.29	0.05	
17-Apr	21:00	32224.0				201.29	0.05	

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *DAY* — PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* — M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* — PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* — PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *SI PROBE & STEVENS RECORDER* — STATIC WATER LEVEL (FT BMP): *201.24*

DIST. FROM PUMPED WELL: *7,500 FEET* — COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA: READING REFERENCE	READING MEASURE	DEPTH TO WATER (FT)	DRAW DOWN (FT)	REMARKS
17-Apr	22:00	32284.0				201.35	0.11	
18-Apr	03:00	32584.0				201.30	0.06	
18-Apr	11:00	33064.0				201.45	0.21	
19-Apr	06:00	34204.0				201.44	0.20	
19-Apr	11:00	34504.0				201.63	0.39	
19-Apr	13:00	34624.0				201.63	0.39	
19-Apr	15:00	34744.0				201.58	0.34	
19-Apr	17:00	34864.0				201.59	0.35	
19-Apr	18:00	34924.0				201.59	0.35	
19-Apr	19:30	35014.0				201.55	0.31	
19-Apr	20:00	35044.0				201.55	0.31	
19-Apr	21:00	35104.0				201.60	0.36	
19-Apr	23:00	35224.0				201.60	0.36	
20-Apr	04:00	35524.0				201.41	0.17	
20-Apr	06:00	35644.0				201.41	0.17	
20-Apr	07:00	35704.0				201.31	0.07	
20-Apr	12:00	36004.0				201.49	0.25	
20-Apr	17:00	36304.0				201.27	0.03	
20-Apr	19:00	36424.0				201.32	0.08	
21-Apr	02:00	36844.0				201.24	0.00	
21-Apr	08:00	37204.0				201.24	0.00	
21-Apr	10:00	37324.0				201.28	0.04	
21-Apr	11:00	37384.0				201.54	0.30	
21-Apr	12:00	37444.0				201.64	0.40	
21-Apr	13:00	37504.0				201.53	0.29	
21-Apr	19:00	37864.0				201.53	0.29	
21-Apr	20:00	37924.0				201.57	0.33	
21-Apr	21:00	37984.0				201.59	0.35	
22-Apr	04:00	38404.0				201.38	0.14	
22-Apr	06:00	38524.0				201.38	0.14	
22-Apr	07:00	38584.0				201.34	0.10	
22-Apr	09:00	38704.0				201.52	0.28	
22-Apr	11:00	38824.0				201.52	0.28	
22-Apr	11:30	38854.0				201.49	0.25	
22-Apr	12:00	38884.0				201.55	0.31	
22-Apr	13:00	38944.0				201.49	0.25	
22-Apr	17:00	39184.0				201.51	0.27	
22-Apr	20:00	39364.0				201.95	0.71	
23-Apr	02:00	39724.0				201.63	0.39	
23-Apr	11:00	40264.0				201.59	0.35	
23-Apr	07:00	40024.0				201.57	0.33	
23-Apr	09:00	40144.0				201.71	0.47	
23-Apr	11:30	40294.0				201.71	0.47	
23-Apr	14:00	40444.0				202.04	0.80	
23-Apr	16:30	40594.0				202.04	0.80	
23-Apr	17:00	40624.0				202.17	0.93	
23-Apr	19:00	40744.0				202.18	0.94	

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *DAY* — PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* — M.P. FOR WL'S: *TOP OF CASING* ELEV. :

PUMPING RATES: *750.0 Gallons per minute* — PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* — PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *SI PROBE & STEVENS RECORDER* — STATIC WATER LEVEL (FT BMP): *201.24*

DIST. FROM PUMPED WELL: *7,500 FEET* — COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t '	WATER LEVEL DATA: READING REFERENCE	READING MEASURE	DEPTH TO WATER (FT)	DRAW DOWN (FT)	REMARKS
23-Apr	19:30	40774.0				202.28	1.04	
23-Apr	21:00	40864.0				202.28	1.04	
24-Apr	00:00	41044.0				201.94	0.70	
24-Apr	04:00	41284.0				201.68	0.44	
24-Apr	05:30	41374.0				201.68	0.44	
24-Apr	06:00	41404.0				201.59	0.35	
24-Apr	07:30	41494.0				201.59	0.35	
24-Apr	08:00	41524.0				201.65	0.41	
24-Apr	15:00	41944.0				201.51	0.27	
24-Apr	18:00	42124.0				201.51	0.27	
25-Apr	06:00	42844.0				201.19	-0.05	
25-Apr	07:00	42904.0				201.19	-0.05	
25-Apr	12:00	43204.0	758.0			201.38	0.14	
25-Apr	15:00	43384.0	183.1			201.29	0.05	
25-Apr	17:00	43504.0	121.9			201.29	0.05	
25-Apr	18:00	43564.0	104.5			201.26	0.02	
25-Apr	22:00	43804.0	66.7			201.26	0.02	
26-Apr	07:00	44344.0	37.0			201.29	0.05	
26-Apr	10:00	44524.0	32.3			201.40	0.16	
26-Apr	11:00	44584.0	31.0			201.40	0.16	
26-Apr	12:00	44644.0	29.8			201.43	0.19	
26-Apr	17:00	44944.0	25.0			201.28	0.04	
26-Apr	21:00	45184.0	22.2			201.23	-0.01	
27-Apr	00:00	45364.0	20.5			201.22	-0.02	
27-Apr	04:00	45604.0	18.6			201.22	-0.02	
27-Apr	10:00	45964.0	16.3			201.23	-0.01	
27-Apr	13:00	46144.0	15.4			201.42	0.18	
27-Apr	17:00	46384.0	14.3			201.42	0.18	
27-Apr	19:00	46504.0	13.9			201.41	0.17	
27-Apr	22:00	46684.0	13.2			201.41	0.17	
27-Apr	23:00	46744.0	13.0			201.45	0.21	
28-Apr	03:00	46984.0	12.2			201.45	0.21	
28-Apr	05:00	47104.0	11.9			201.41	0.17	
28-Apr	07:00	47224.0	11.6			201.41	0.17	
28-Apr	11:00	47464.0	11.0			201.43	0.19	
28-Apr	12:00	47524.0	10.9			201.52	0.28	
28-Apr	13:00	47584.0	10.7			201.57	0.33	
28-Apr	15:00	47704.0	10.5			201.57	0.33	
28-Apr	17:00	47824.0	10.2			201.54	0.30	
28-Apr	19:00	47944.0	10.0			201.47	0.23	
28-Apr	21:00	48064.0	9.8			201.46	0.22	
28-Apr	23:00	48184.0	9.6			201.54	0.30	
29-Apr	00:00	48244.0	9.5			201.54	0.30	
29-Apr	05:00	48544.0	9.0			201.33	0.09	
29-Apr	08:00	48724.0	8.7			201.30	0.06	
29-Apr	11:00	48904.0	8.5			201.54	0.30	
29-Apr	14:00	49084.0	8.3			201.54	0.30	
29-Apr	17:00	49264.0	8.1			201.58	0.34	

CH2M HILL *PUMPING TEST REPORT* PROJECT NO: BOI 31684.A1

WELL NO: *DAY* — PUMPING / OBSERVATION WELL

TYPE OF DATA: *DRAWDOWN*

PUMPED WELL NO: *PW* RADIUS: *14"(28"HOLE)* — M.P. FOR WL'S: *TOP OF CASING* ELEV.:

PUMPING RATES: *750.0 Gallons per minute* — PUMP ON: DATE *26-Mar-91* TIME *10:56:00*

HOW Q MEASURED: *FLOWMETER* — PUMP OFF: DATE *25-Apr-91* TIME *11:03:00*

HOW WL's MEASURED: *SI PROBE & STEVENS RECORDER* — STATIC WATER LEVEL (FT BMP): *201.24*

DIST. FROM PUMPED WELL: *7,500 FEET* — COMMENTS:

DATE	CLOCK TIME	TIME SINCE PUMPING STARTED / STOPPED (minutes)	t/t'	WATER LEVEL DATA: READING REFERENCE	READING MEASURE	DEPTH TO WATER (FT)	DRAW DOWN (FT)	REMARKS
29-Apr	19:00	49384.0	7.9			201.57	0.33	
29-Apr	21:00	49504.0	7.8			201.49	0.25	
29-Apr	22:00	49564.0	7.7			201.50	0.26	
30-Apr	05:00	49984.0	7.3			201.38	0.14	
30-Apr	07:00	50104.0	7.2			201.42	0.18	
30-Apr	09:00	50224.0	7.1			201.39	0.15	
30-Apr	11:00	50344.0	7.0			201.54	0.30	
30-Apr	13:00	50464.0	6.9			201.59	0.35	
30-Apr	18:00	50764.0	6.7			201.38	0.14	
30-Apr	19:00	50824.0	6.6			201.43	0.19	
30-Apr	22:00	51004.0	6.5			201.41	0.17	
30-Apr	23:00	51064.0	6.4			201.53	0.29	
01-May	03:00	51304.0	6.3			201.37	0.13	
01-May	09:00	51664.0	6.1			201.37	0.13	
01-May	10:00	51724.0	6.0			201.53	0.29	
01-May	12:00	51844.0	6.0			201.53	0.29	
01-May	19:00	52264.0	5.7			201.35	0.11	
01-May	20:00	52324.0	5.7			201.35	0.11	
01-May	22:00	52444.0	5.6			201.57	0.33	
02-May	06:00	52924.0	5.4			201.11	-0.13	
02-May	08:00	53044.0	5.4			201.11	-0.13	
02-May	09:00	53104.0	5.3			201.07	-0.17	
02-May	10:00	53164.0	5.3			201.07	-0.17	
02-May	12:00	53284.0	5.3			201.21	-0.03	
02-May	13:00	53344.0	5.2			201.18	-0.06	
02-May	14:00	53404.0	5.2			201.27	0.03	
02-May	16:00	53524.0	5.2			201.25	0.01	
02-May	18:00	53644.0	5.1			201.18	-0.06	
02-May	22:00	53884.0	5.0			201.21	-0.03	
02-May	23:00	53944.0	5.0			201.26	0.02	
03-May	02:00	54124.0	4.9			201.22	-0.02	
03-May	04:00	54244.0	4.9			201.22	-0.02	
03-May	06:00	54364.0	4.8			201.24	0.00	
03-May	06:00	54364.0	4.8			201.24	0.00	
03-May	07:00	54424.0	4.8			201.30	0.06	
03-May	08:00	54484.0	4.8			201.31	0.07	
03-May	12:00	54724.0	4.7			201.58	0.34	
03-May	14:00	54844.0	4.7			201.58	0.34	
03-May	19:00	55144.0	4.6			201.44	0.20	
03-May	20:00	55204.0	4.6			201.49	0.25	
03-May	22:00	55324.0	4.5			201.49	0.25	
04-May	01:00	55504.0	4.5			201.93	0.69	
04-May	03:00	55624.0	4.5			201.70	0.46	
04-May	04:00	55684.0	4.4			201.61	0.37	
04-May	06:00	55804.0	4.4			201.55	0.31	
04-May	08:00	55924.0	4.4			201.55	0.31	
04-May	09:00	55984.0	4.4			201.52	0.28	
04-May	13:00	56224.0	4.3			201.96	0.72	
04-May	17:00	56464.0	4.2			201.95	0.71	
04-May	19:00	56584.0	4.2			201.95	0.71	
04-May	20:00	56644.0	4.2			202.05	0.81	
05-May	12:34	57638.0	4.0			202.44	1.20	

USGS WELL

Site Ident. No. 434243116185001

Water Year 1991

Tabulation Sheet for Highest and Lowest Water Level

Well No. 04N 01E 03DAD1 County ADA

Highest W/L	Date	Ckd by	Lowest W/L	Date	Ckd by
58.05	10/31/90		58.90	10/1/90	
57.58	2/17/91		58.30	11/3-4/90	
57.25	3/1/91		57.94	4/4/91	

Water Year 1991

Highest W/L	Date	Ckd by

Water Year 1991

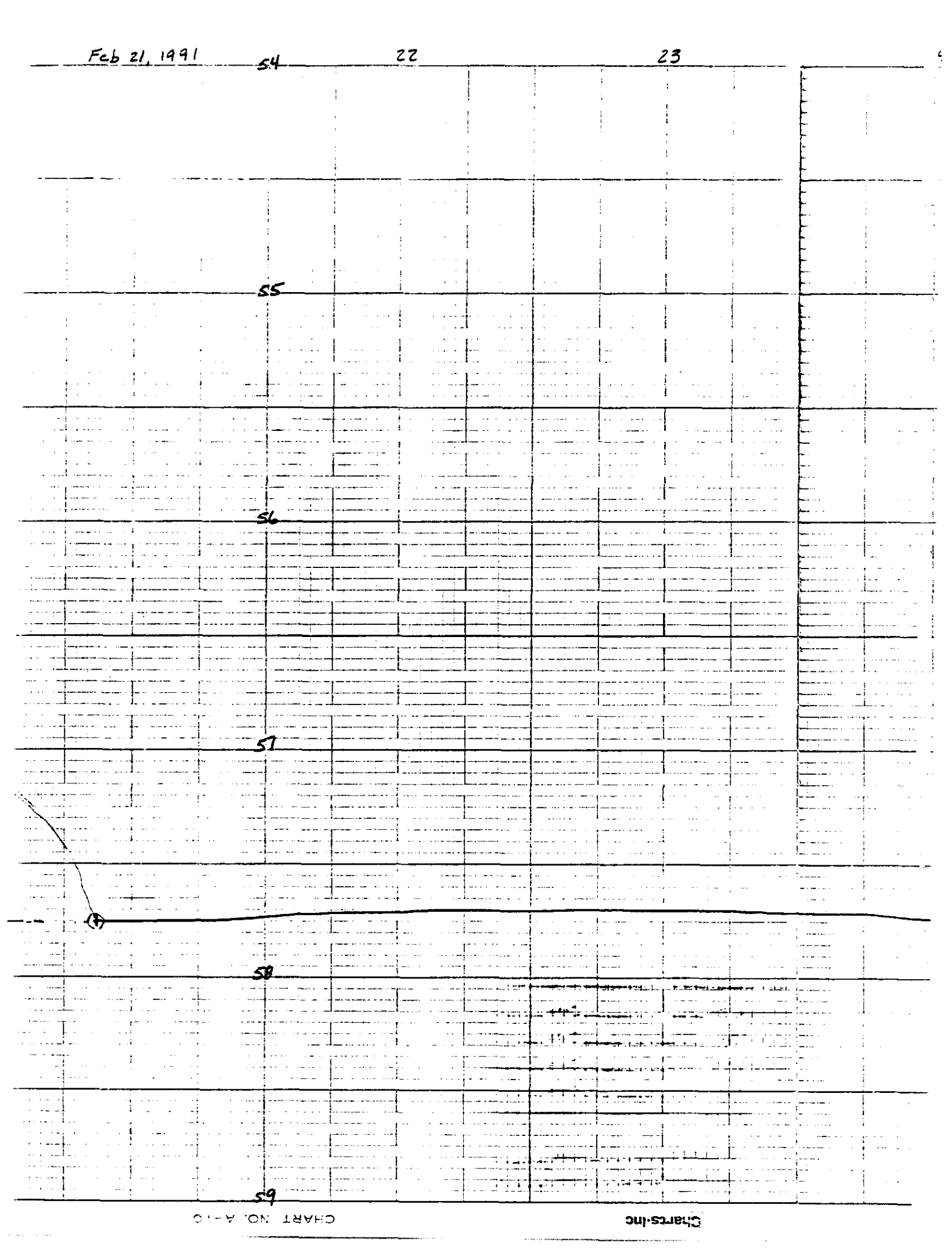
Lowest W/L	Date	Ckd by

Period of Record

Highest W/L	Date	Ckd by
57.22	2/1/90	

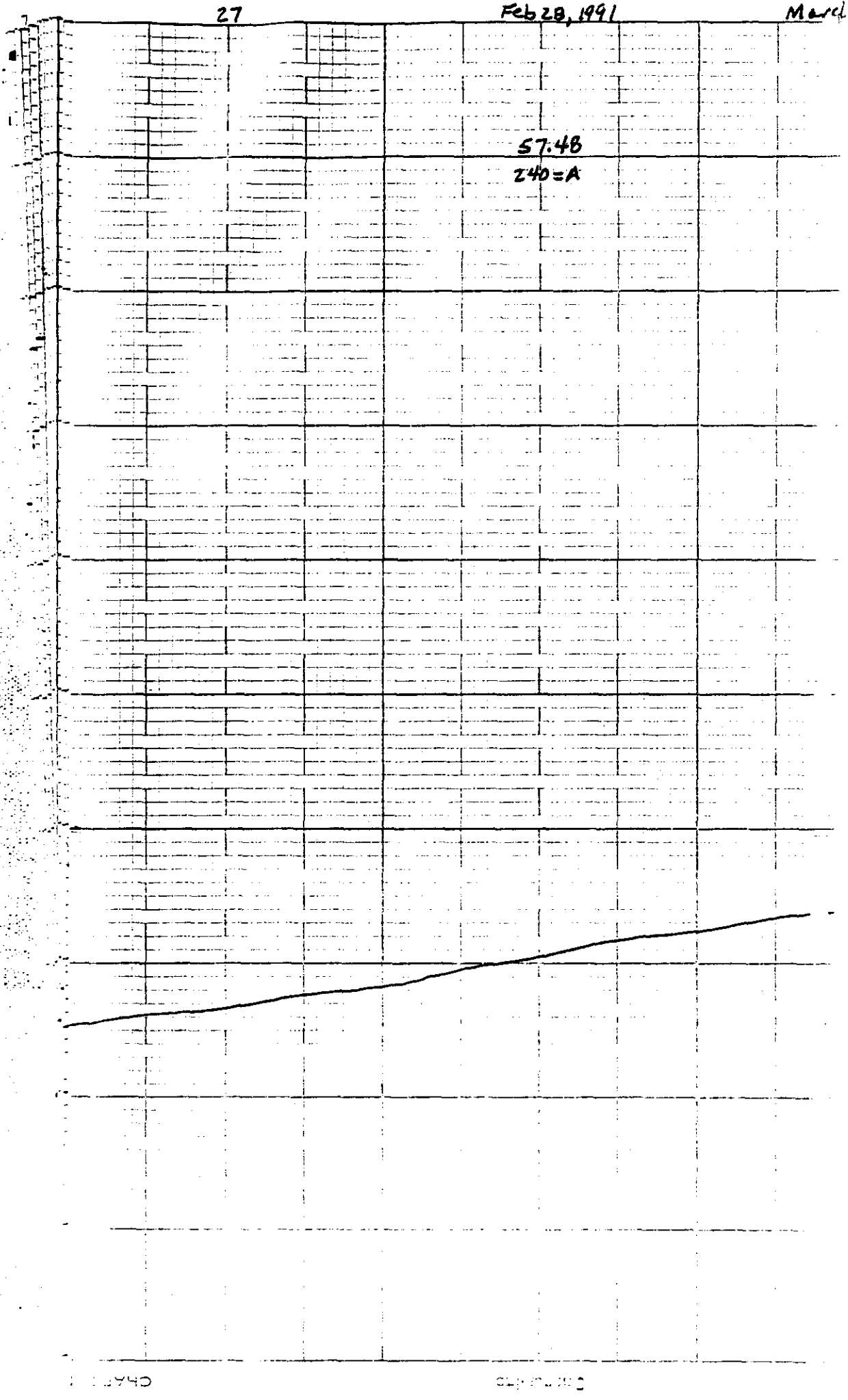
Period of Record

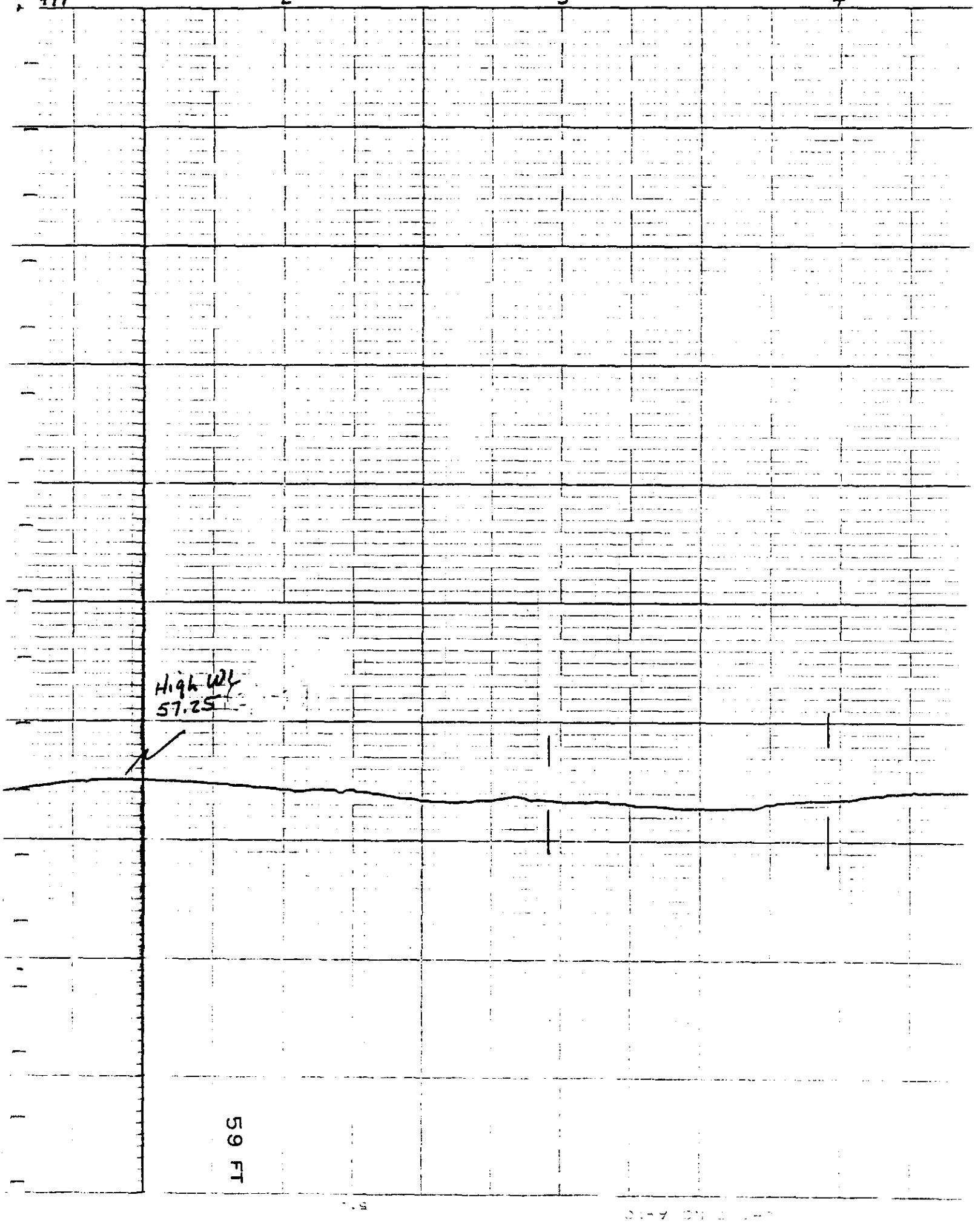
Lowest W/L	Date	Ckd by
59.45	8/5/90	

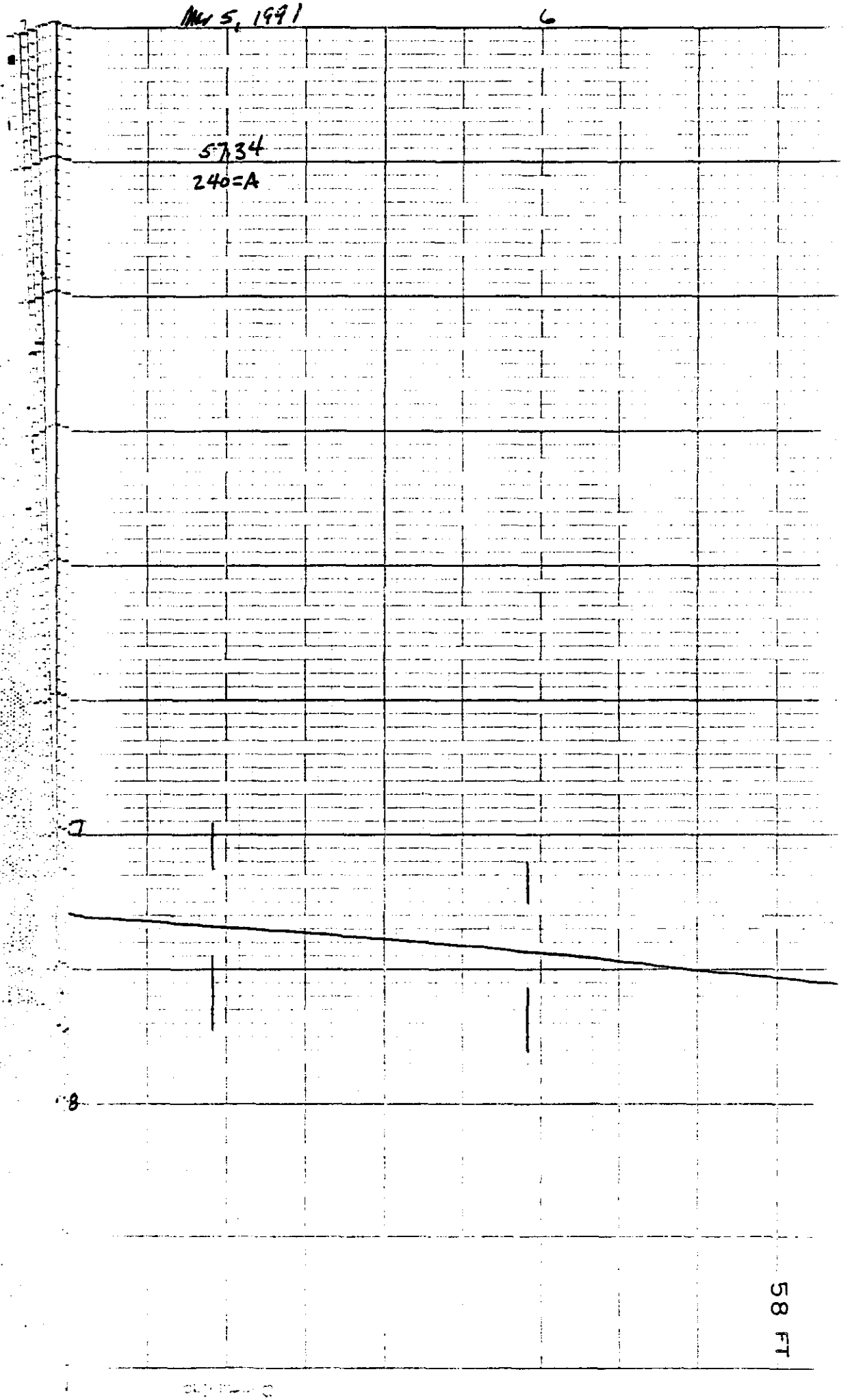

Feb 21, 1991
54
22
23
55
56
57
58
59
Charts-Inc
CHART NO. A-1C

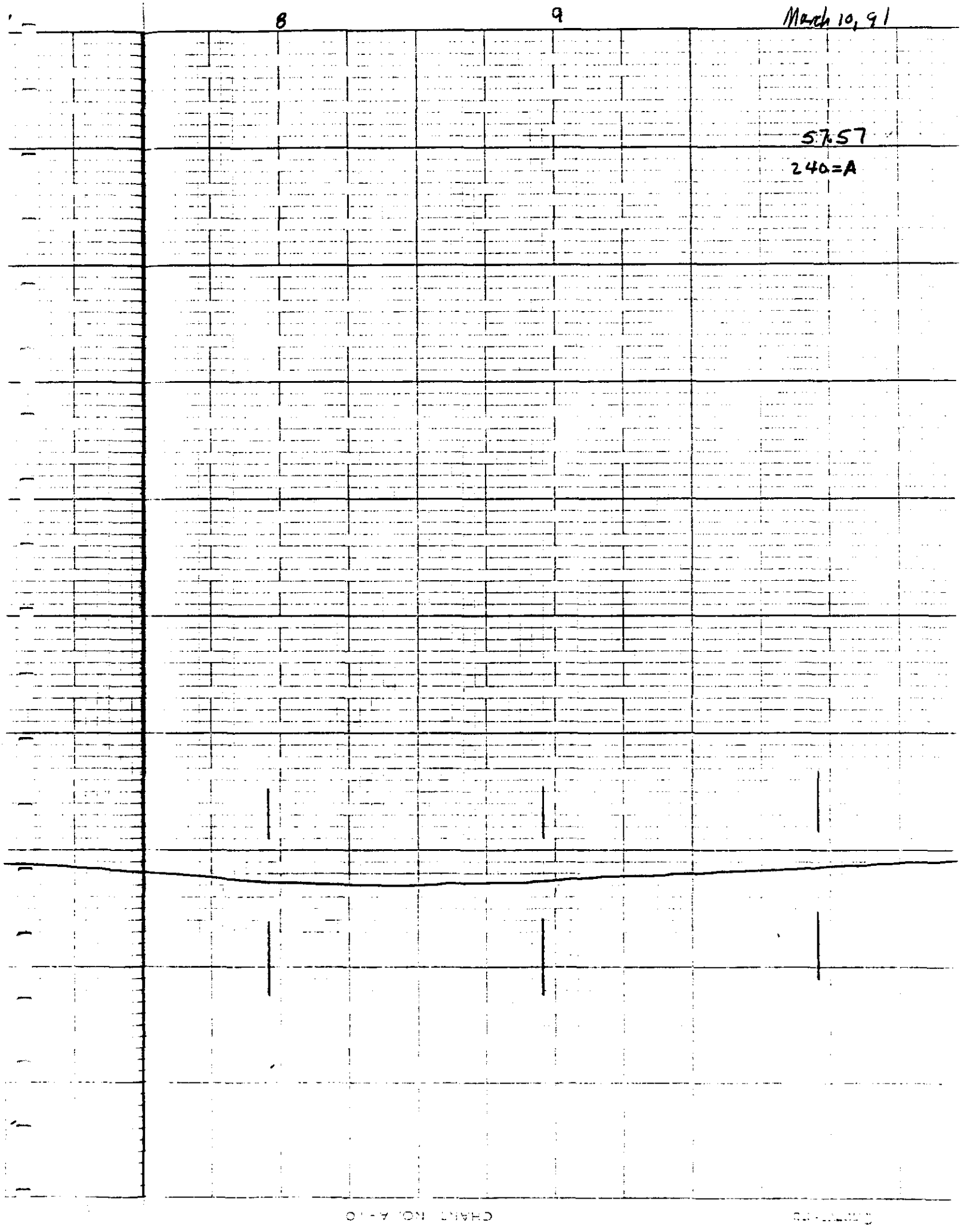
5778
240=A

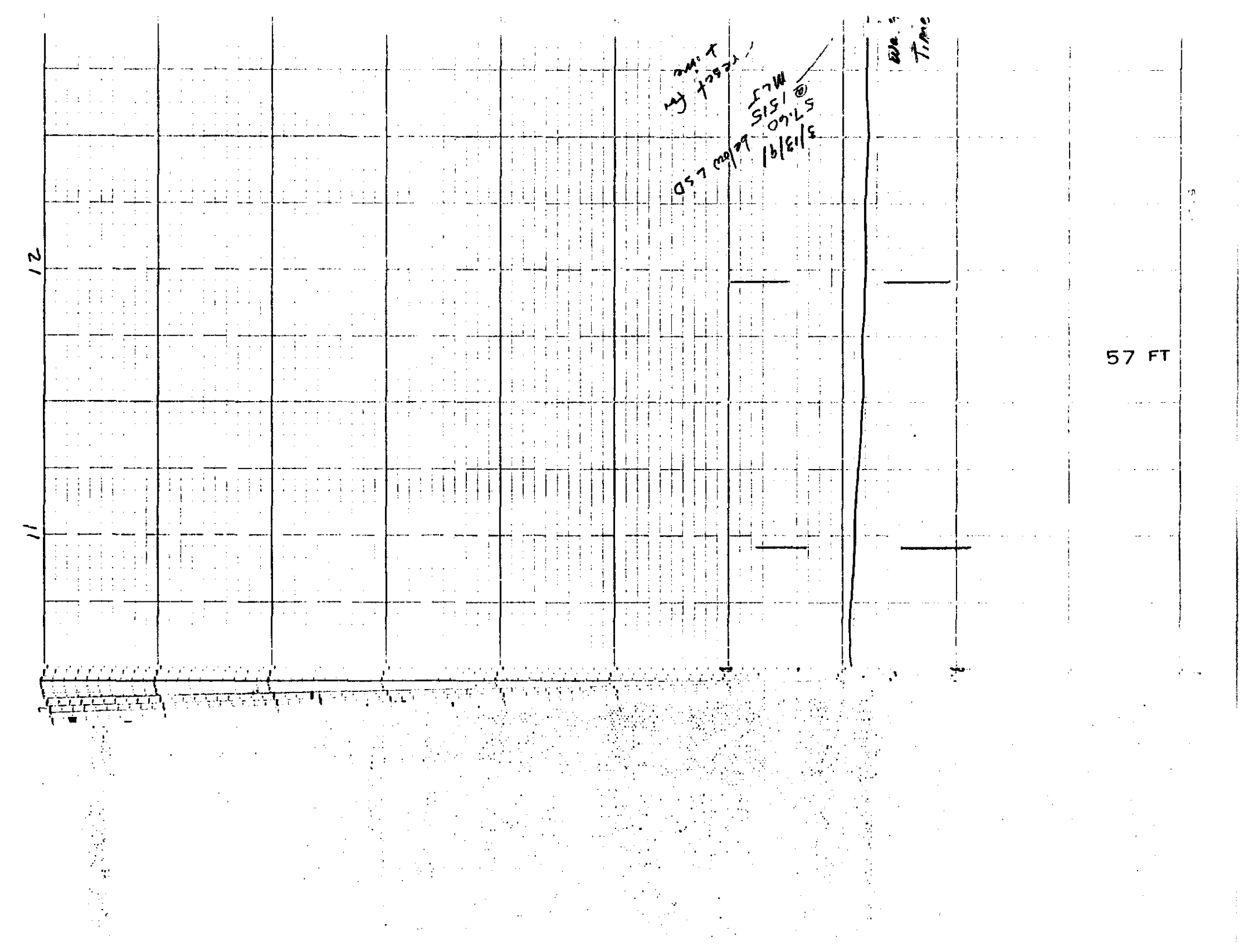
60 FT

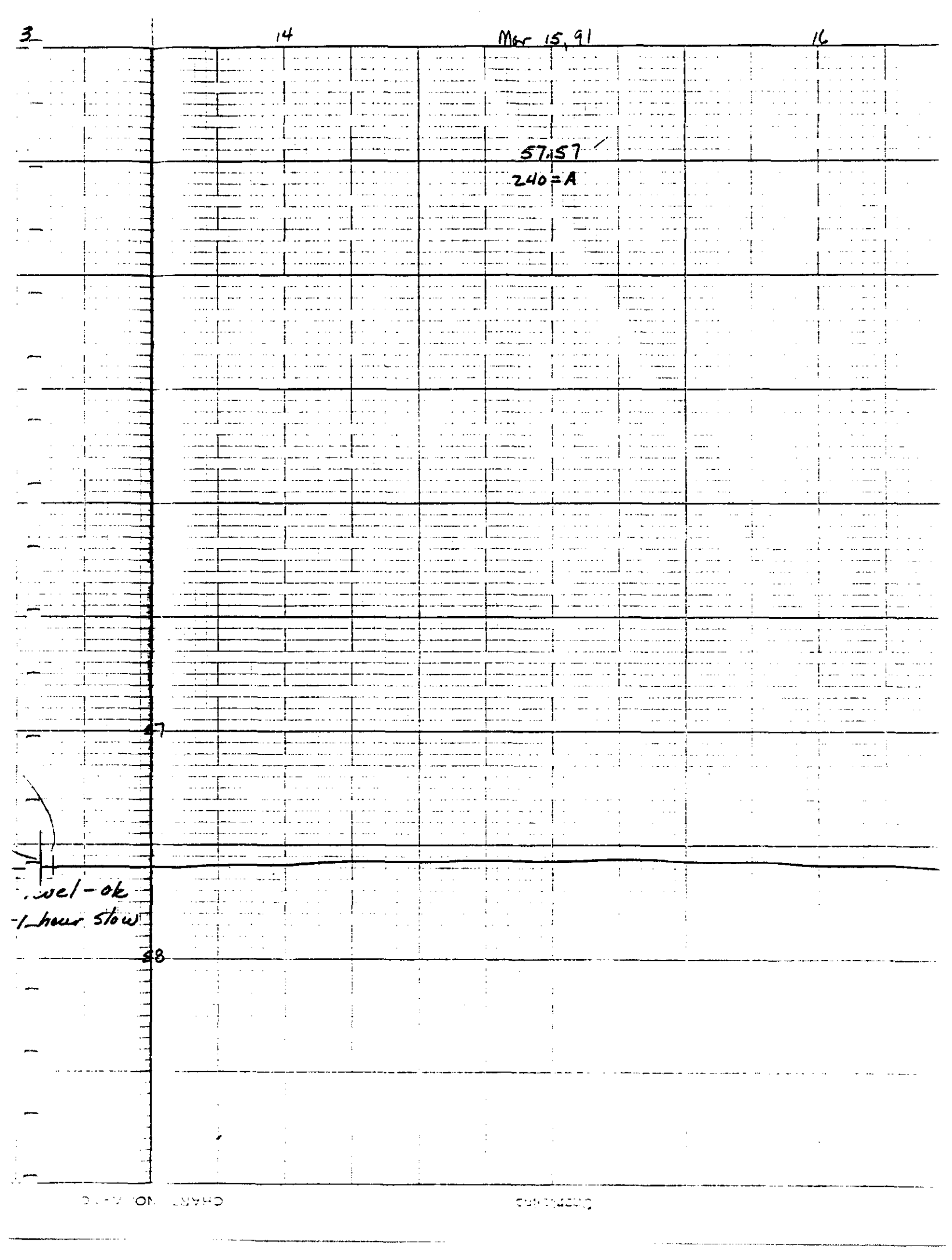

57.48
240=A


-991
2
3
4
High WL
57.25
59 FT

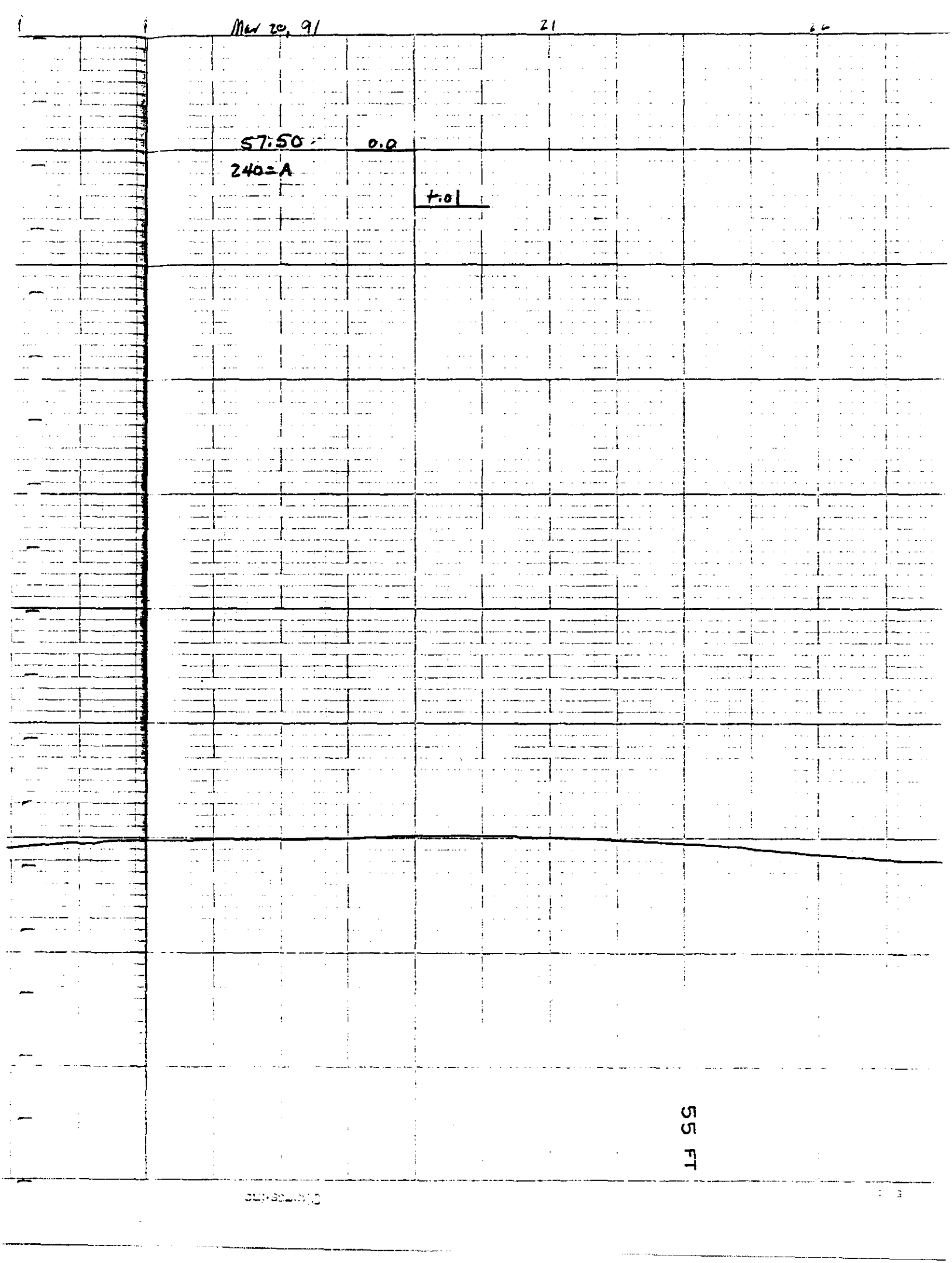

May 5, 1991
6
5734
240=A
J
B
58 FT


8
9
March 10, 91
5757
240=A


12
11
57 FT


3
14
Mar 15, 91
16
57.57
240=A
7
8
.wel-ok
-1 hour slow

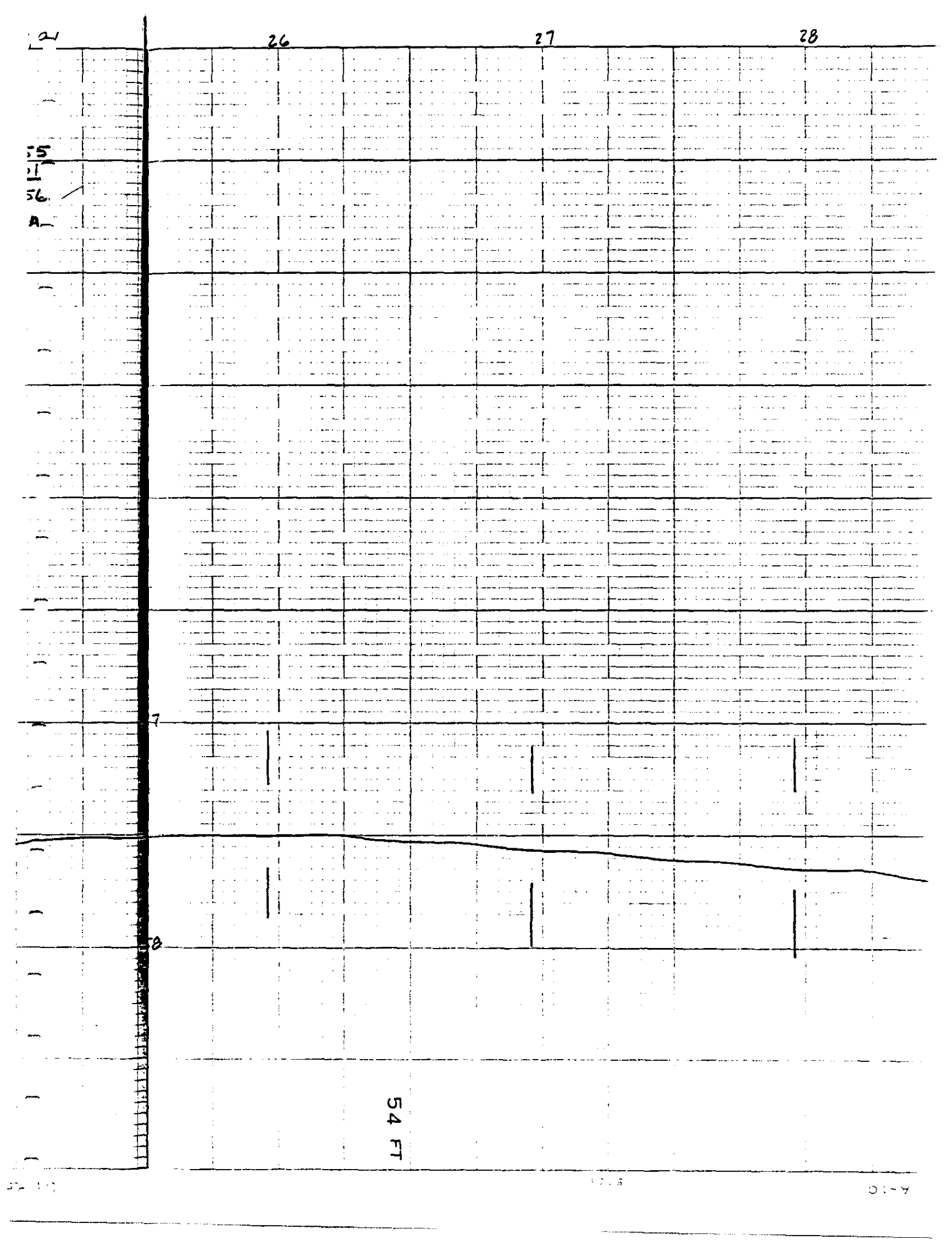
17
18
56 FT

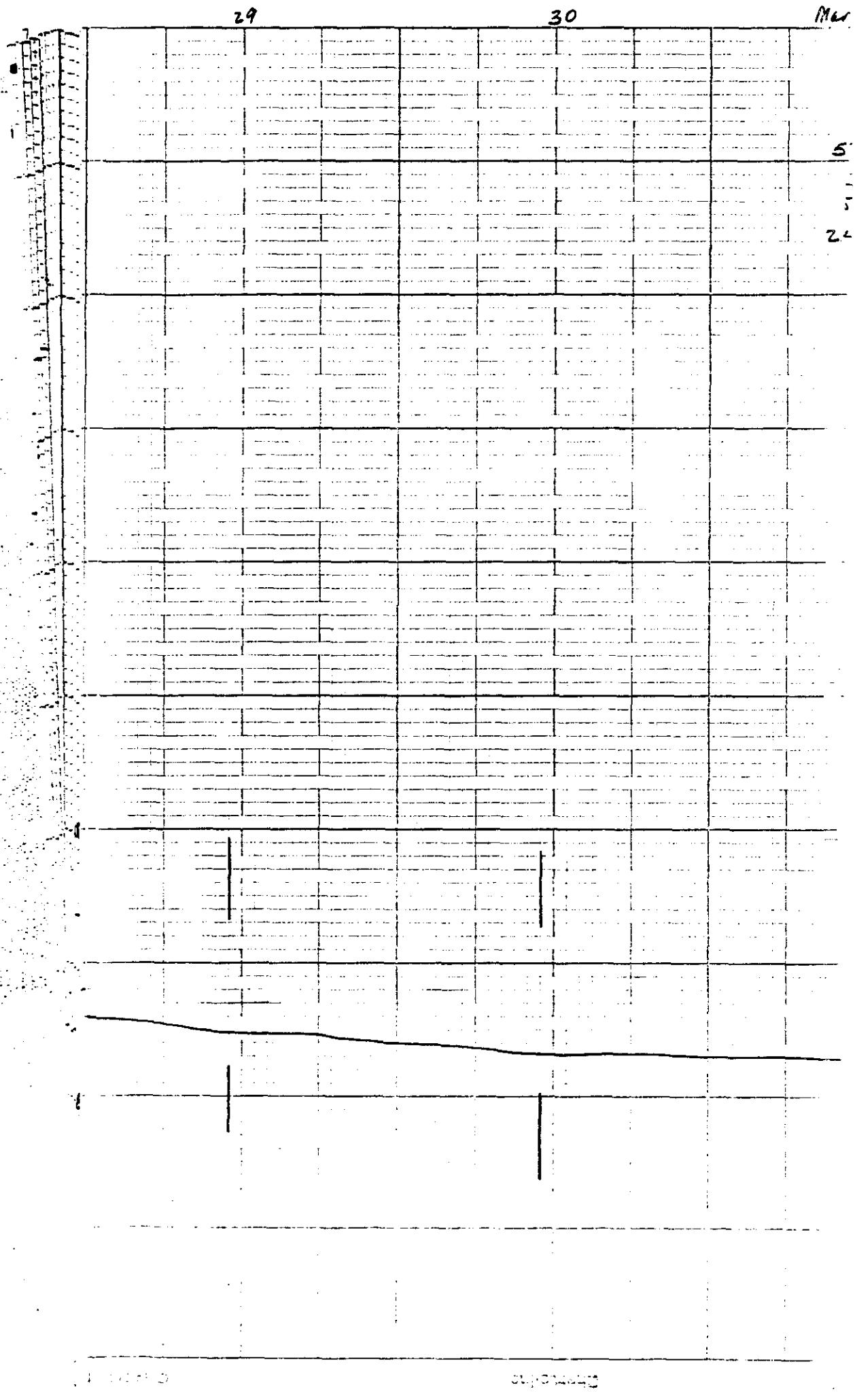

Mar 20, 91
21
57:50
0.0
240=A
+.01
55 FT

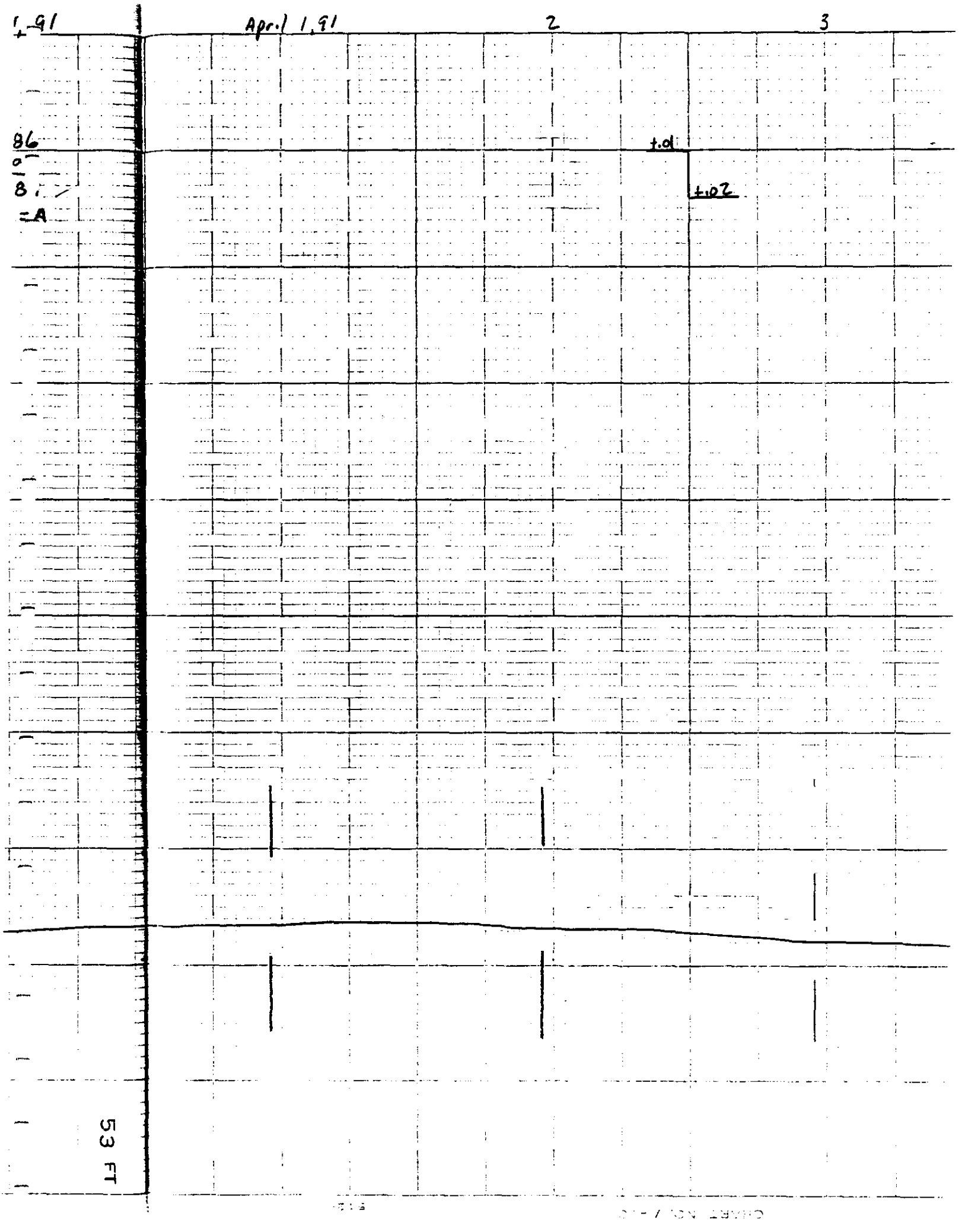
57.55
+.01
57.56
240=A

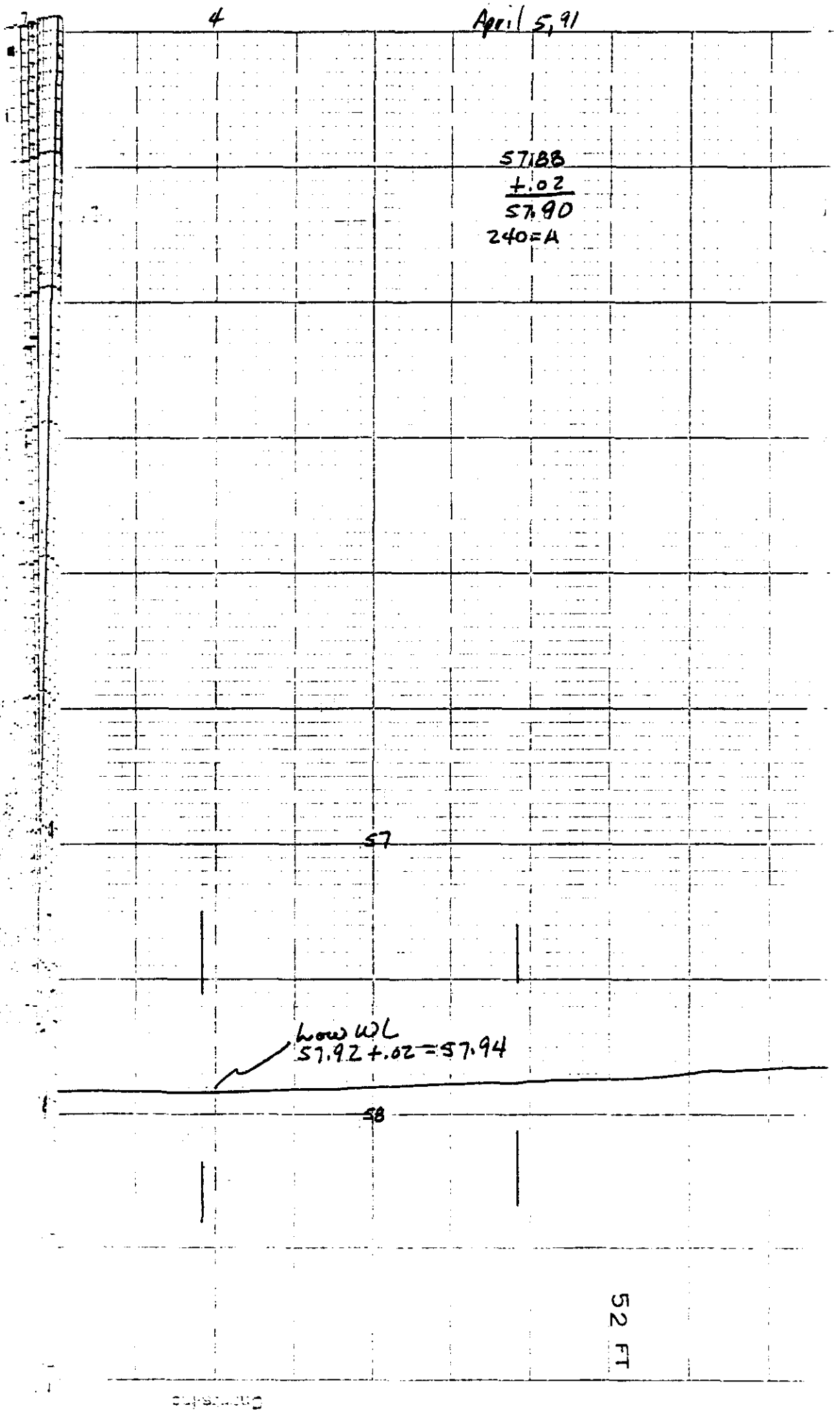
57

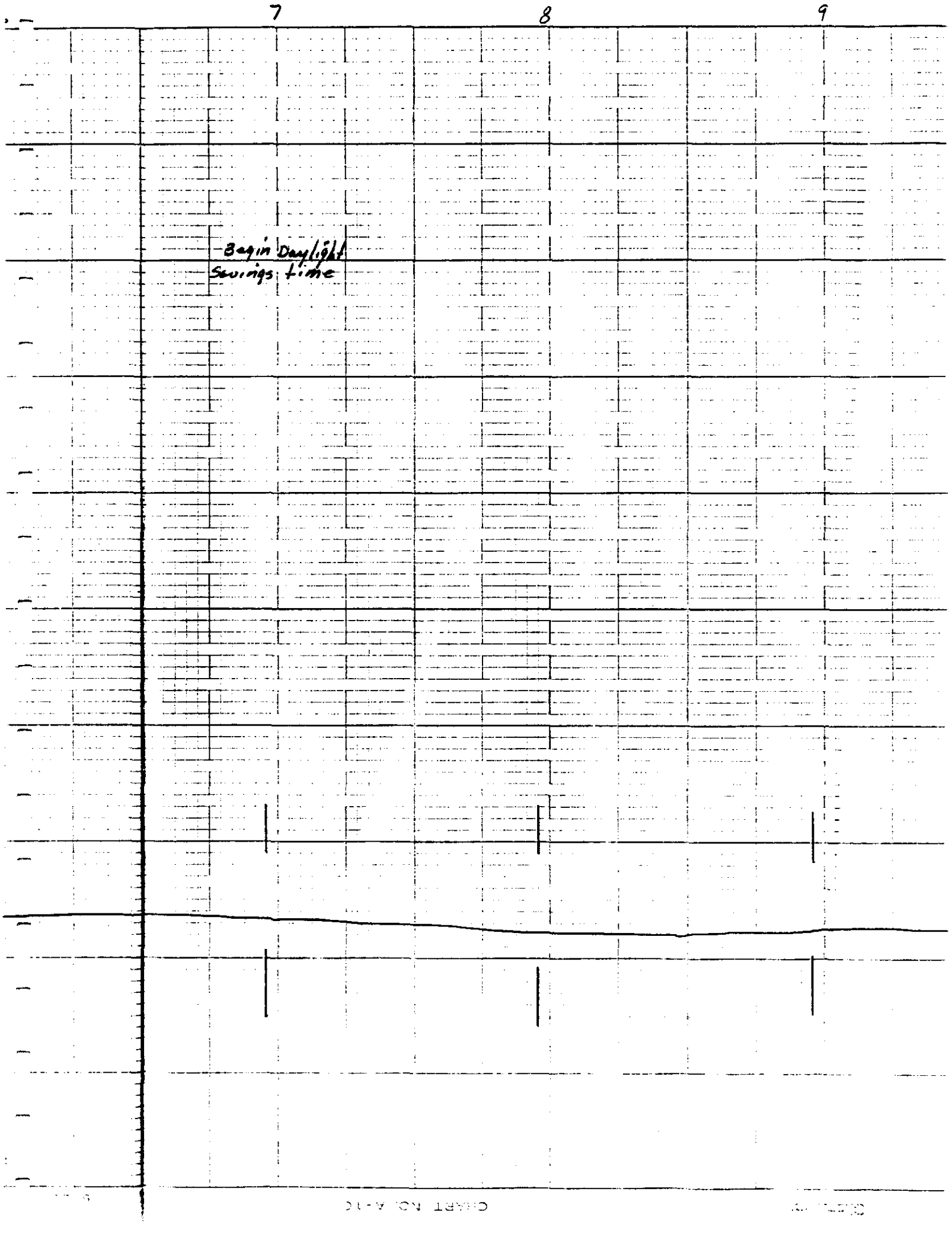
58

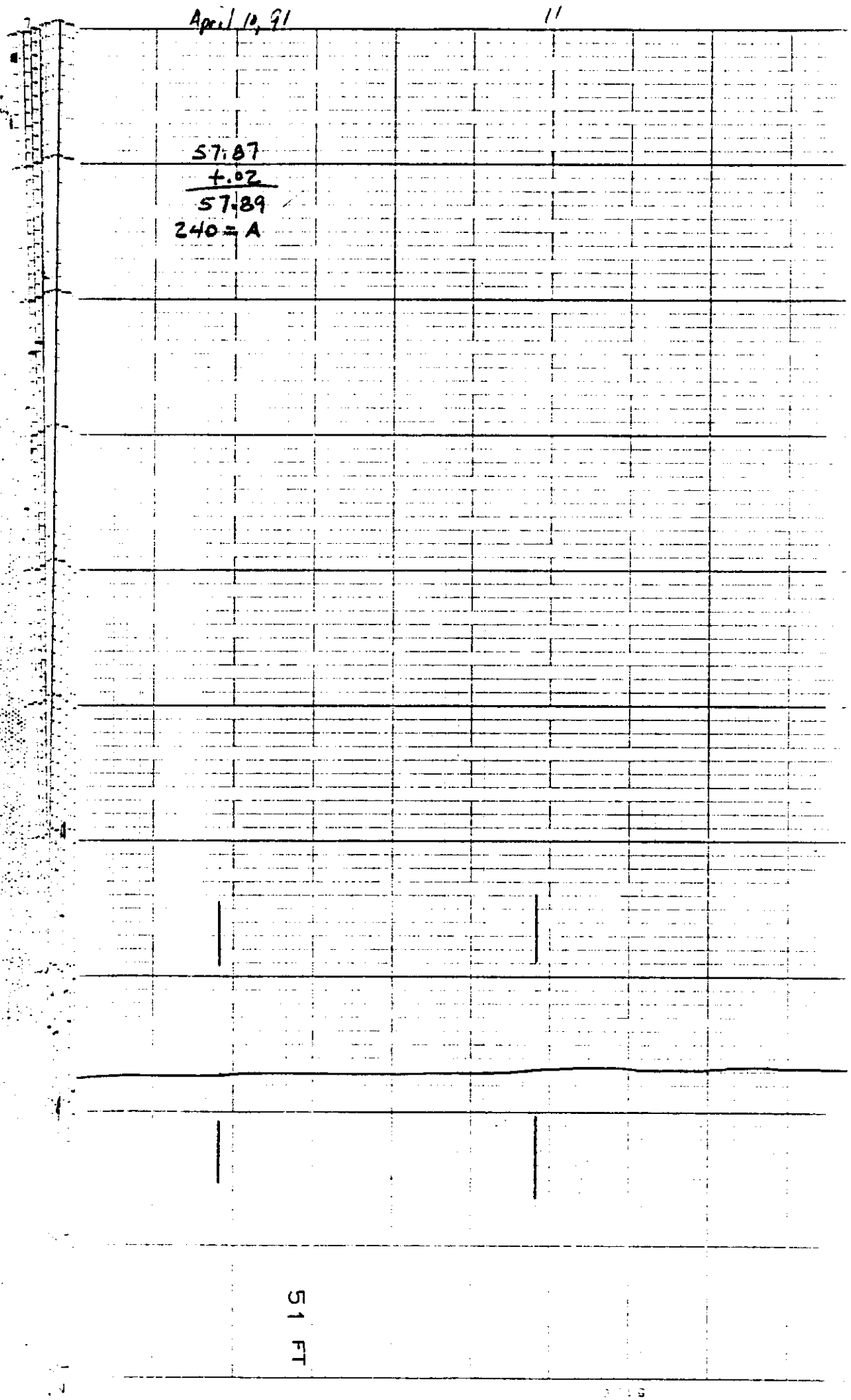

26
27
28
7
8
54 FT

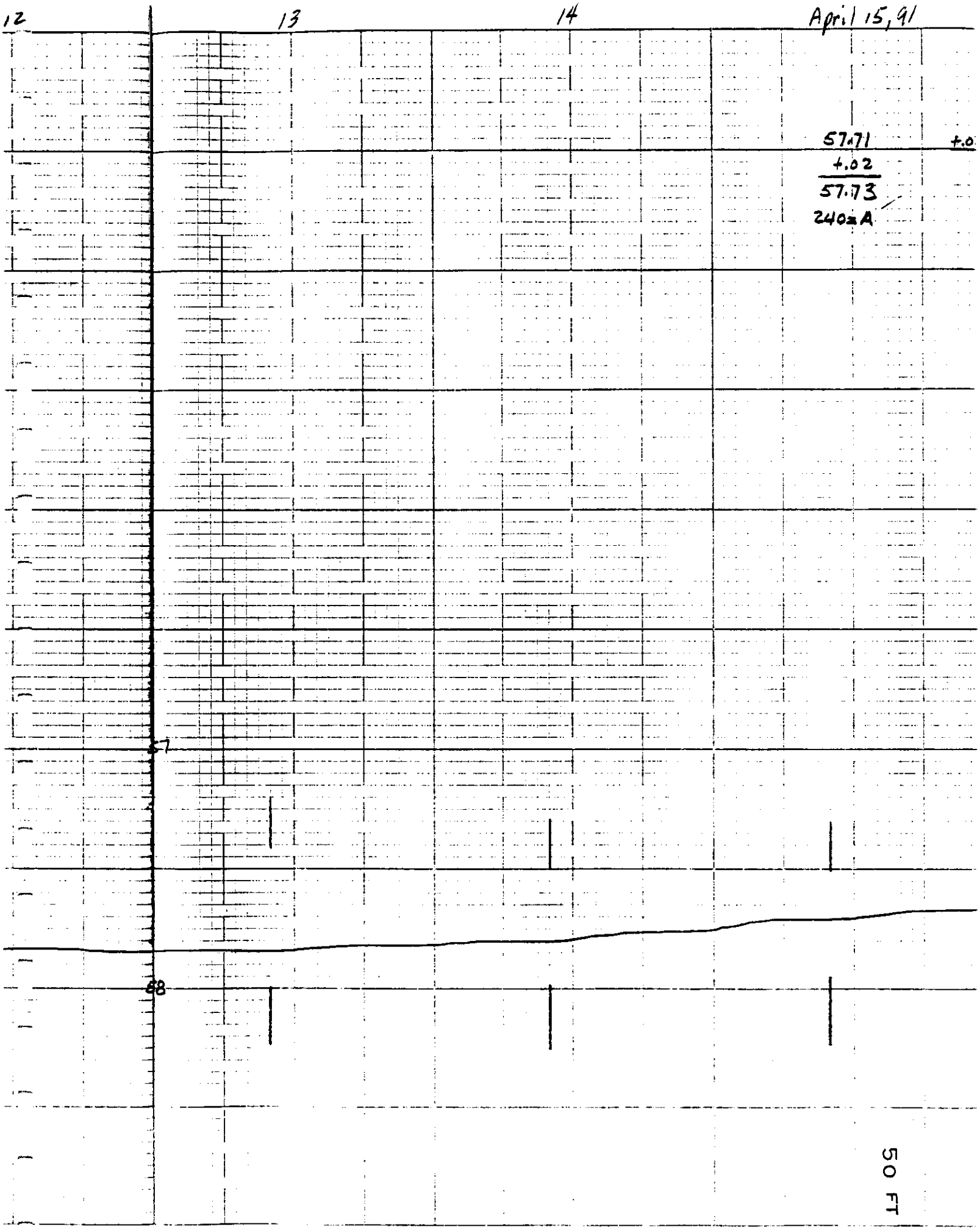

29
30
Mar

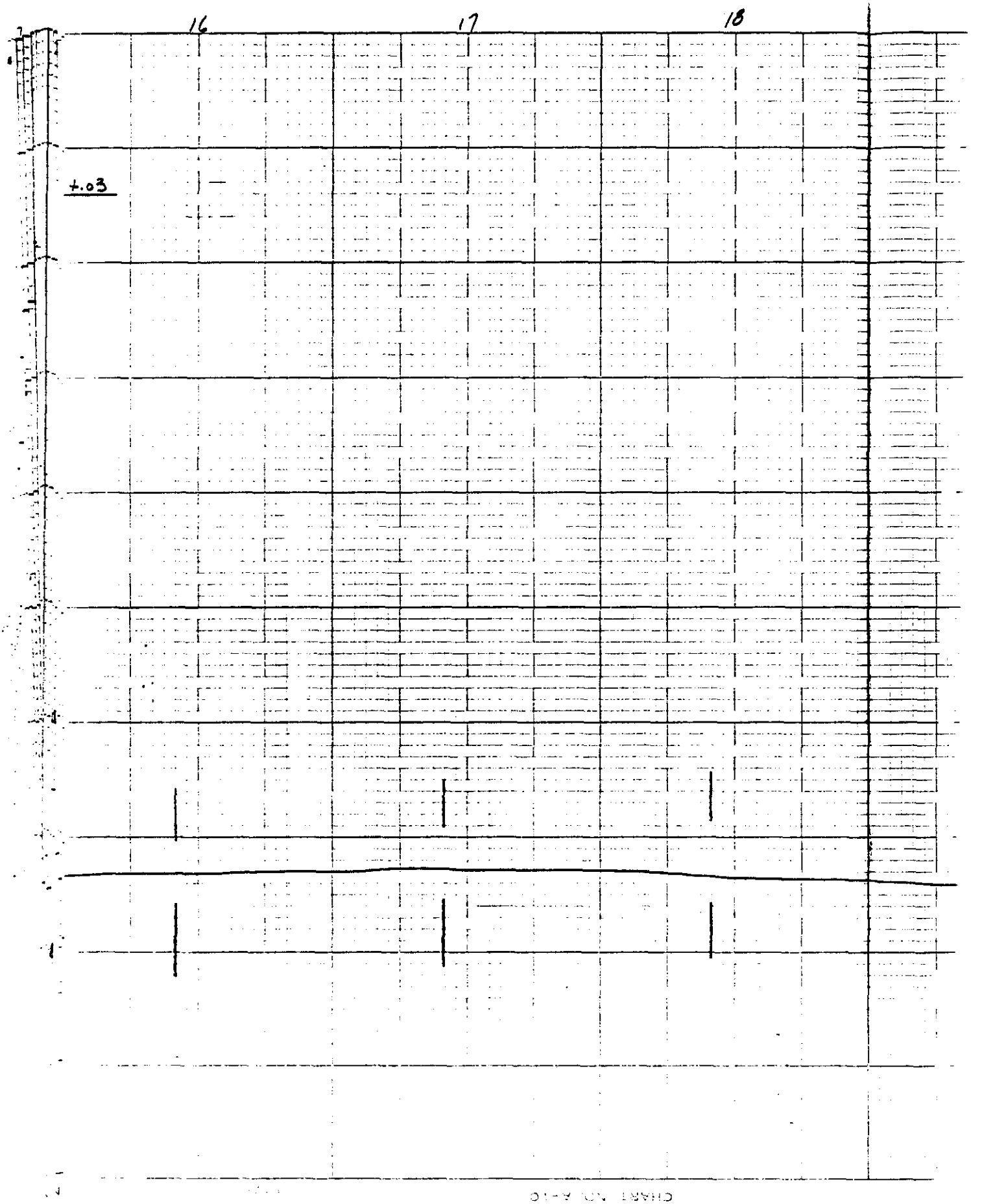

1.91
Apr. 1 1.91
2
3
86
t.01
t.02
53 FT

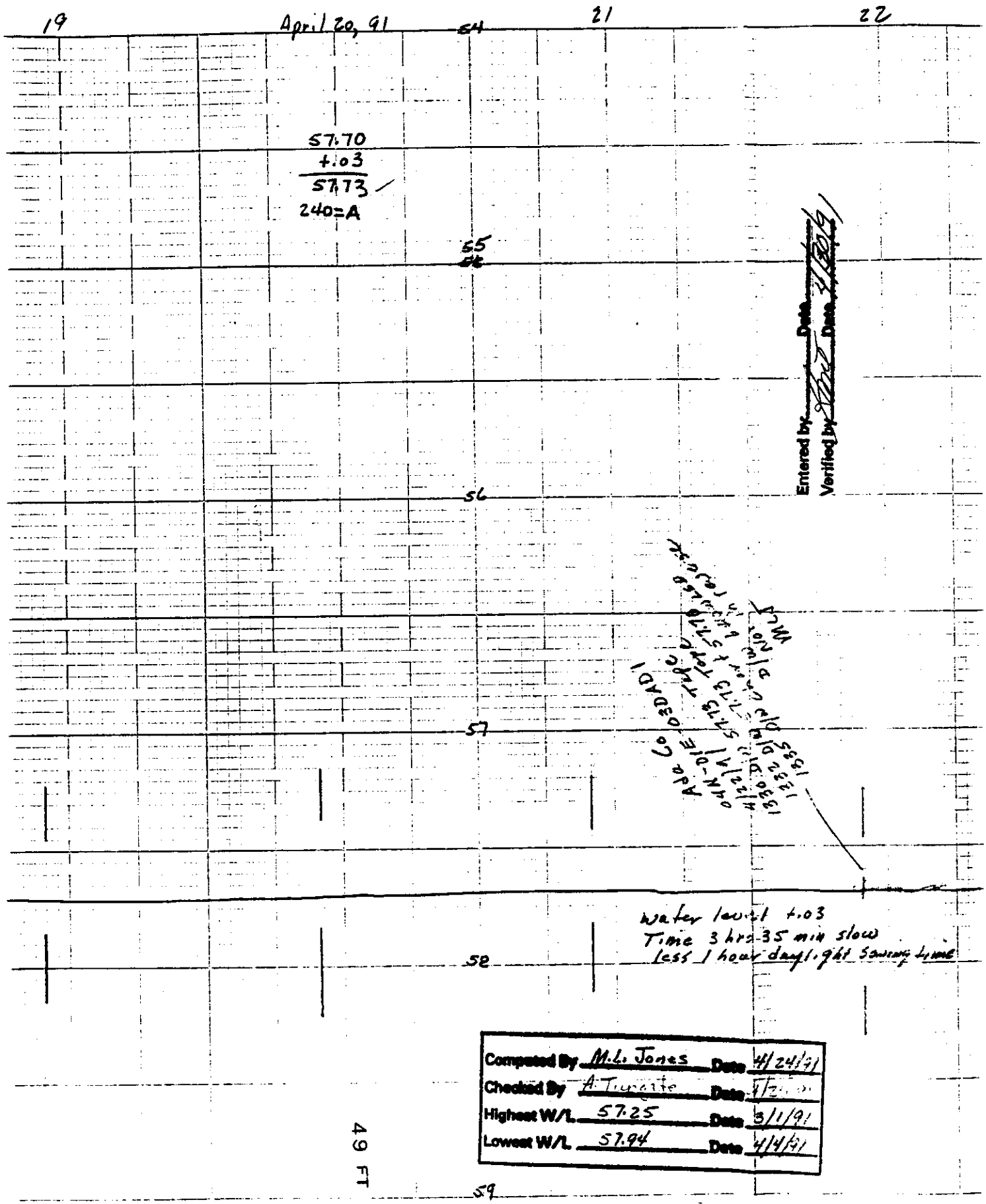

4
April 5, 91
57.88
+.02
57.90
240=A
57
58
New WL
57.92 + .02 = 57.94
52 FT


7
8
9
Begin Daylight
Savings time


April 10, 91
11
57.87
+.02
57.89
240 = A
51 FT


12
13
14
April 15, 91
57.71
+.02
57.73
240±A
+.0
57
58
50 FT


16
17
18
+.03


19
April 20, 91
54
21
22
57.70
+.03
57.73
240=A
55
56
57
58
59
49 FT
Entered by
Date
Verified by
Date
water level +.03
Time 3 hrs 35 min slow
less 1 hour daylight saving time
Computed By M.L. Jones Date 4/24/91
Checked By A. Turcotte Date 4/2[illegible]/91
Highest W/L 57.25 Date 3/1/91
Lowest W/L 57.94 Date 4/4/91

Adc Co
DANIELSON
April 22, 1973
1300 Hrs
1330 Hrs

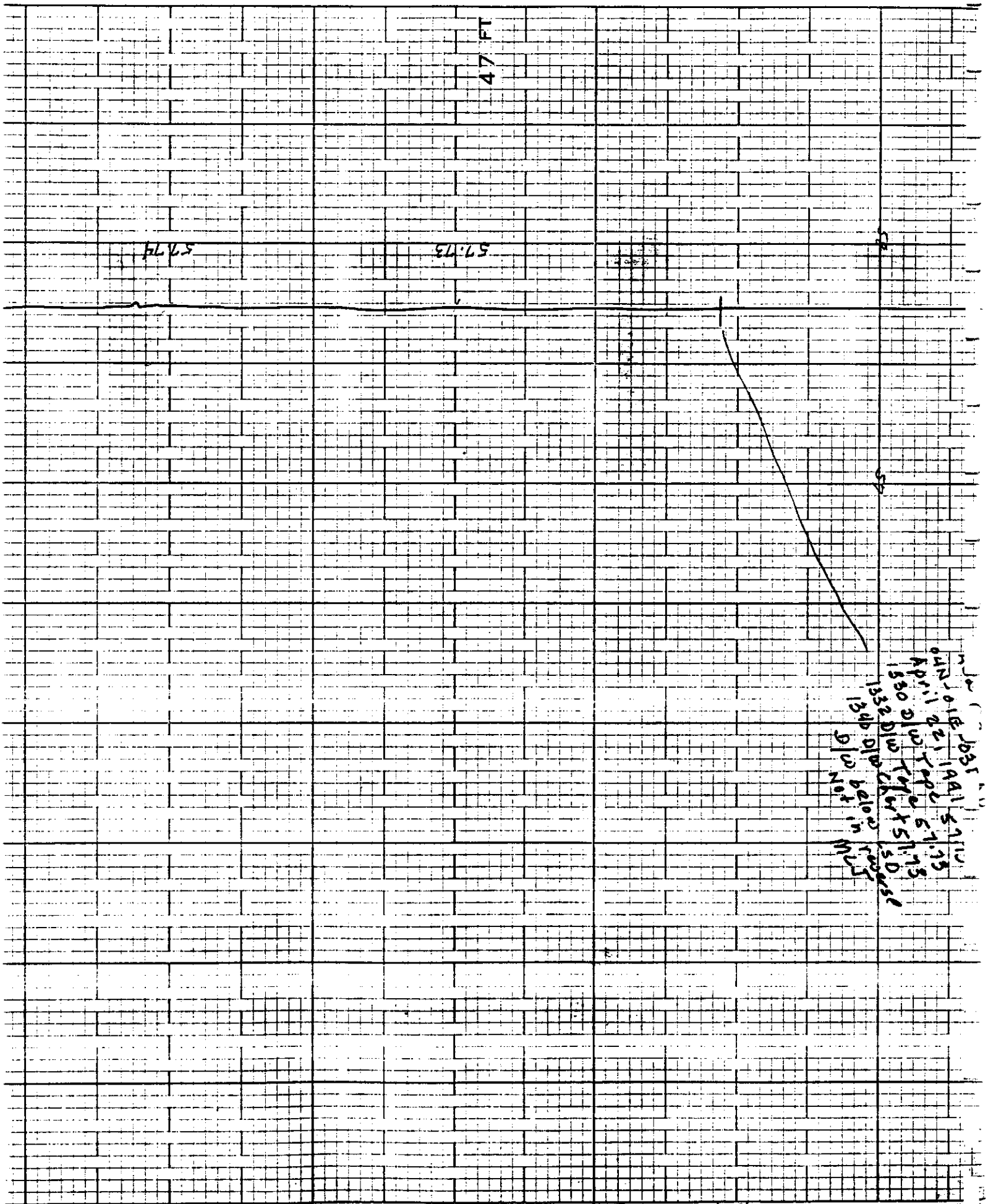
48 FT

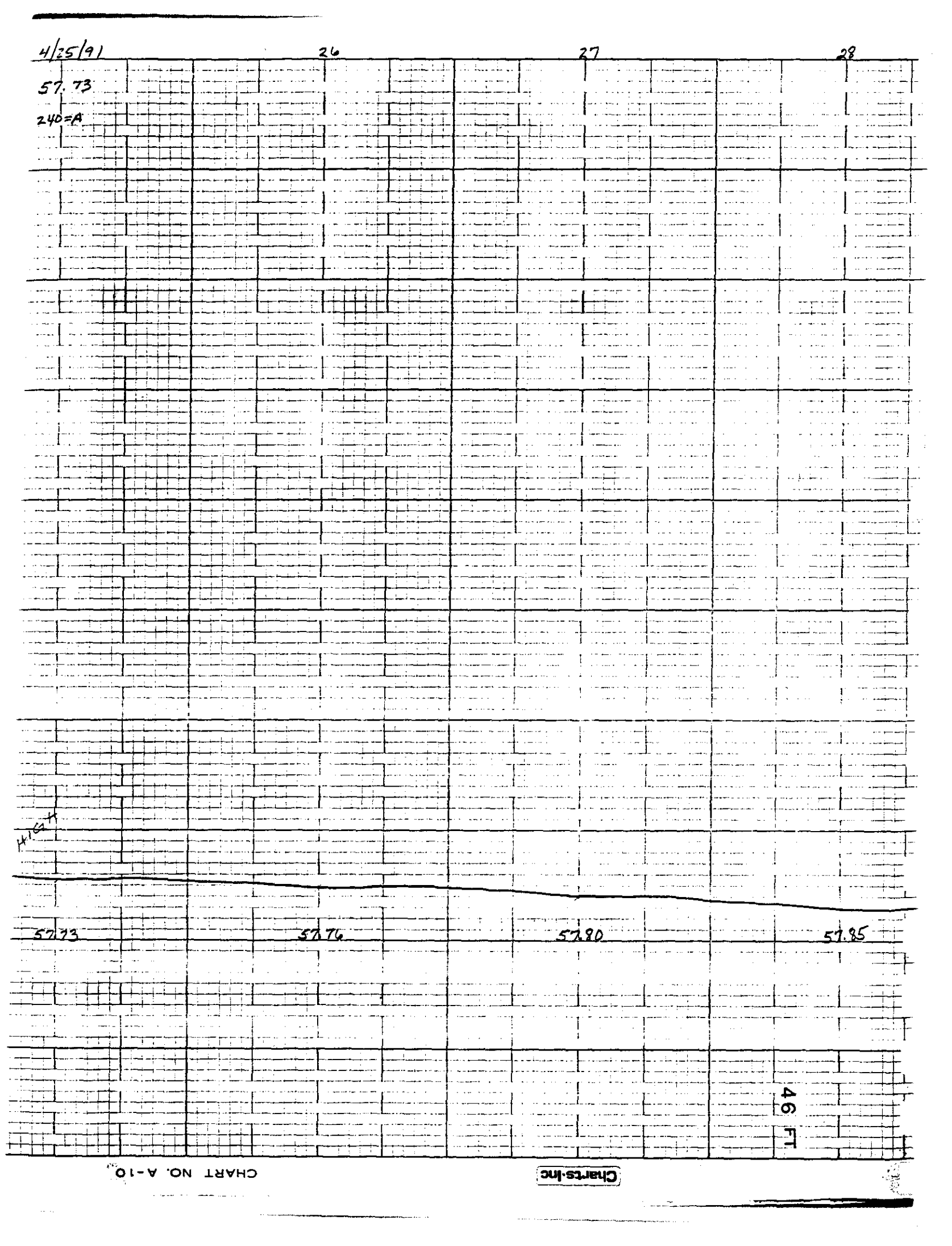
(5126)

CHART NO. A-10

(5126)

Charts·Inc



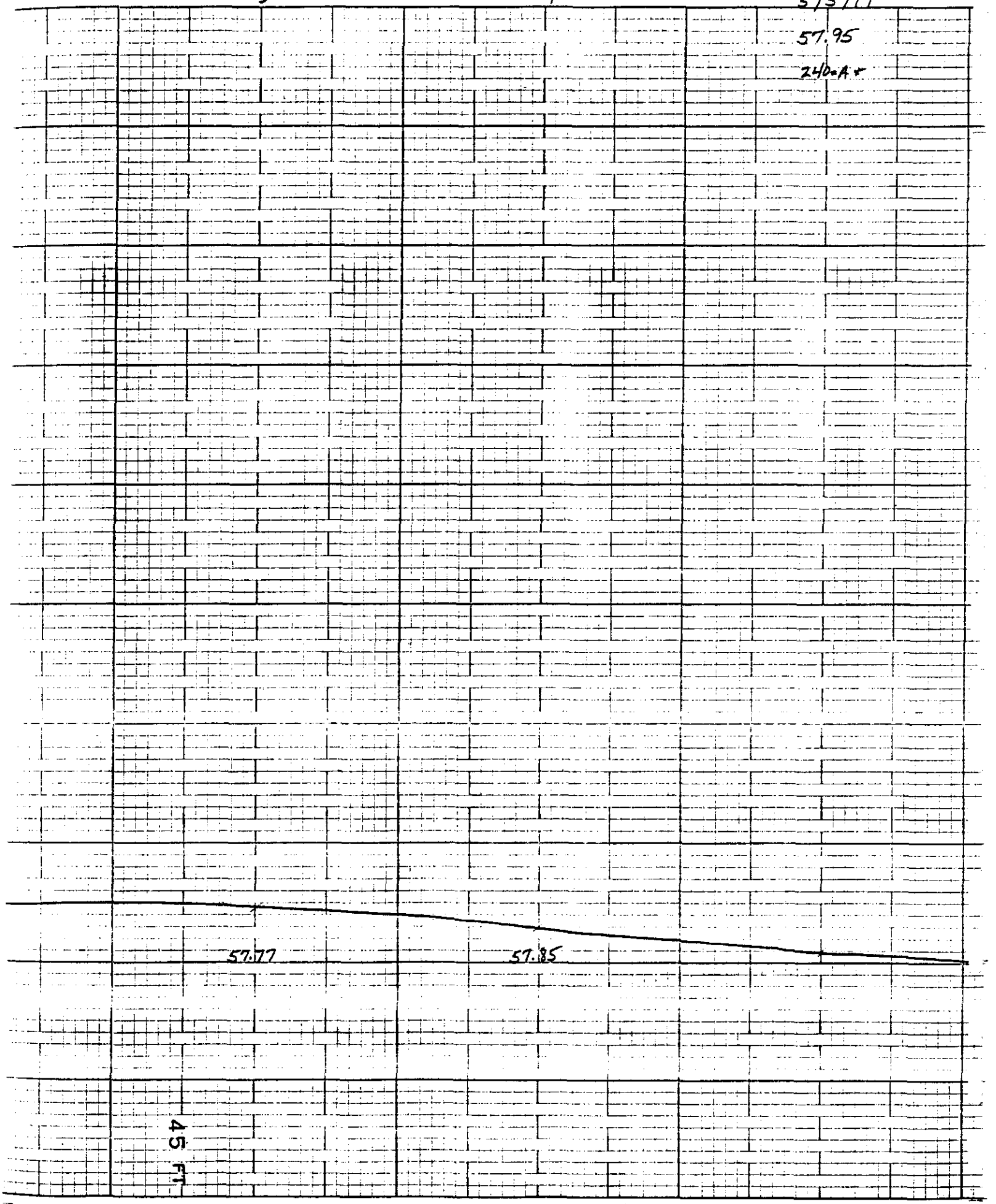

4/25/91
26
27
28
57.73
240=A
57.73
57.76
57.80
57.85
46 FT
Charts.Inc
CHART NO. A-10

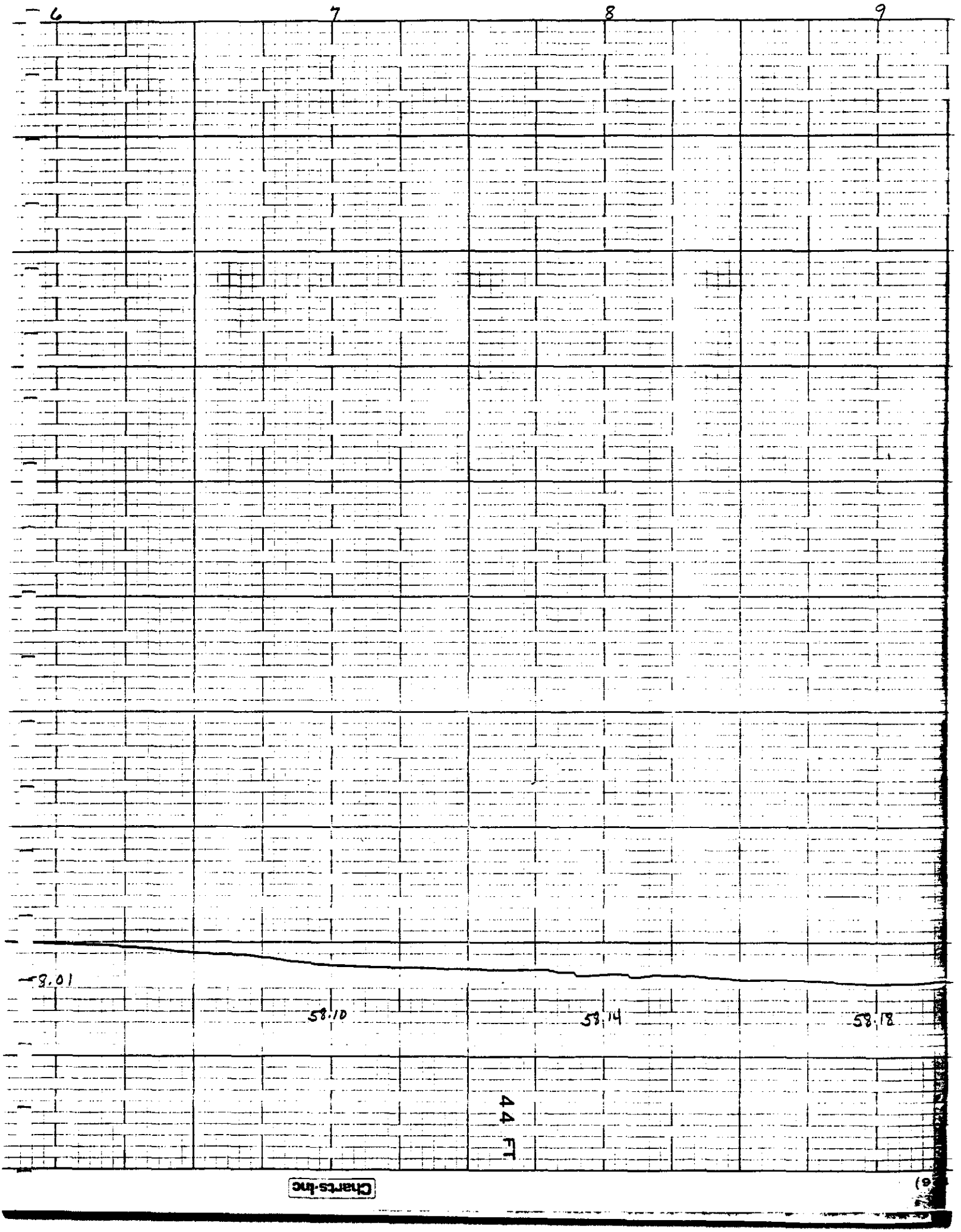
29 4/30/91 1

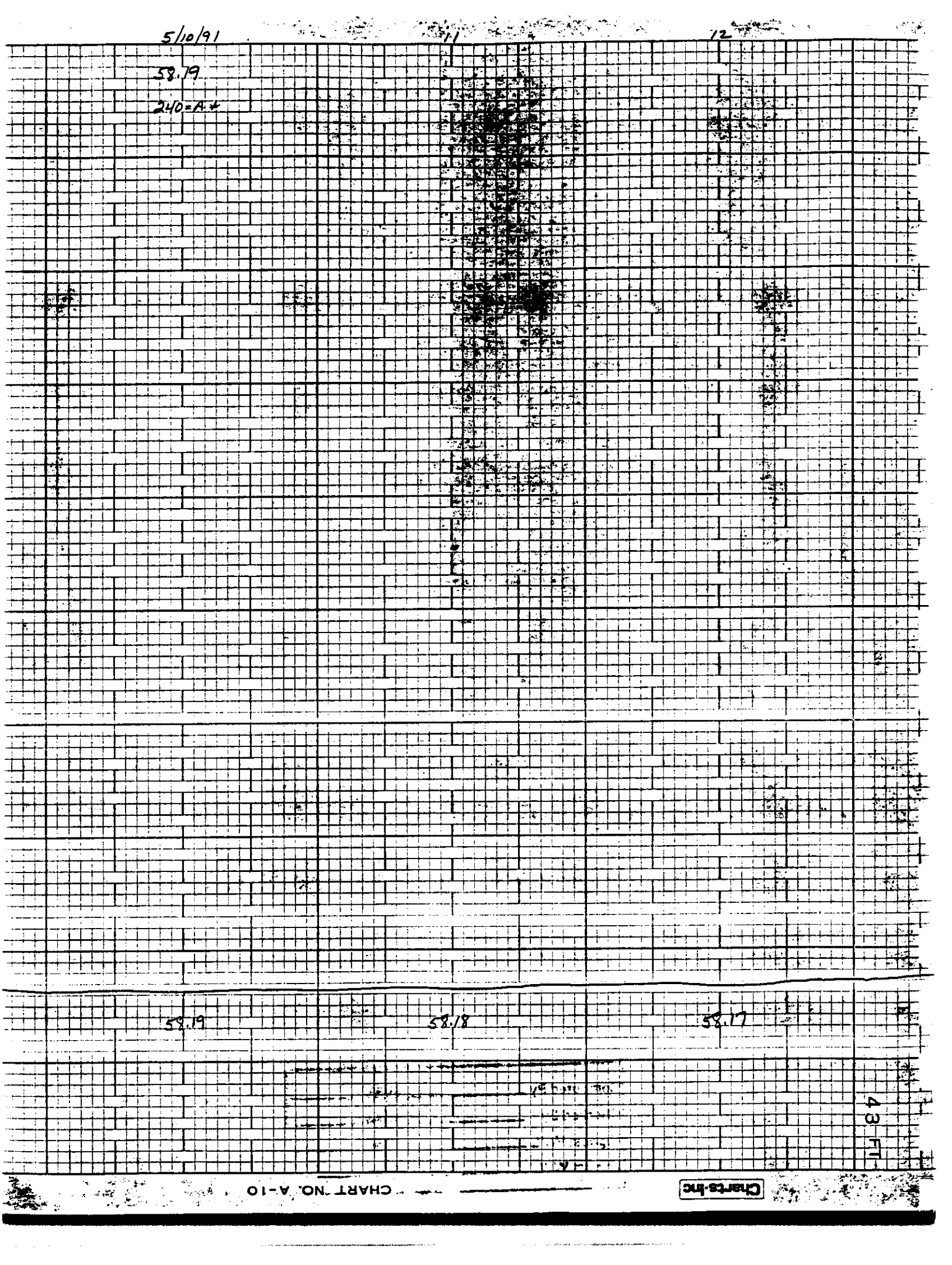
57.88

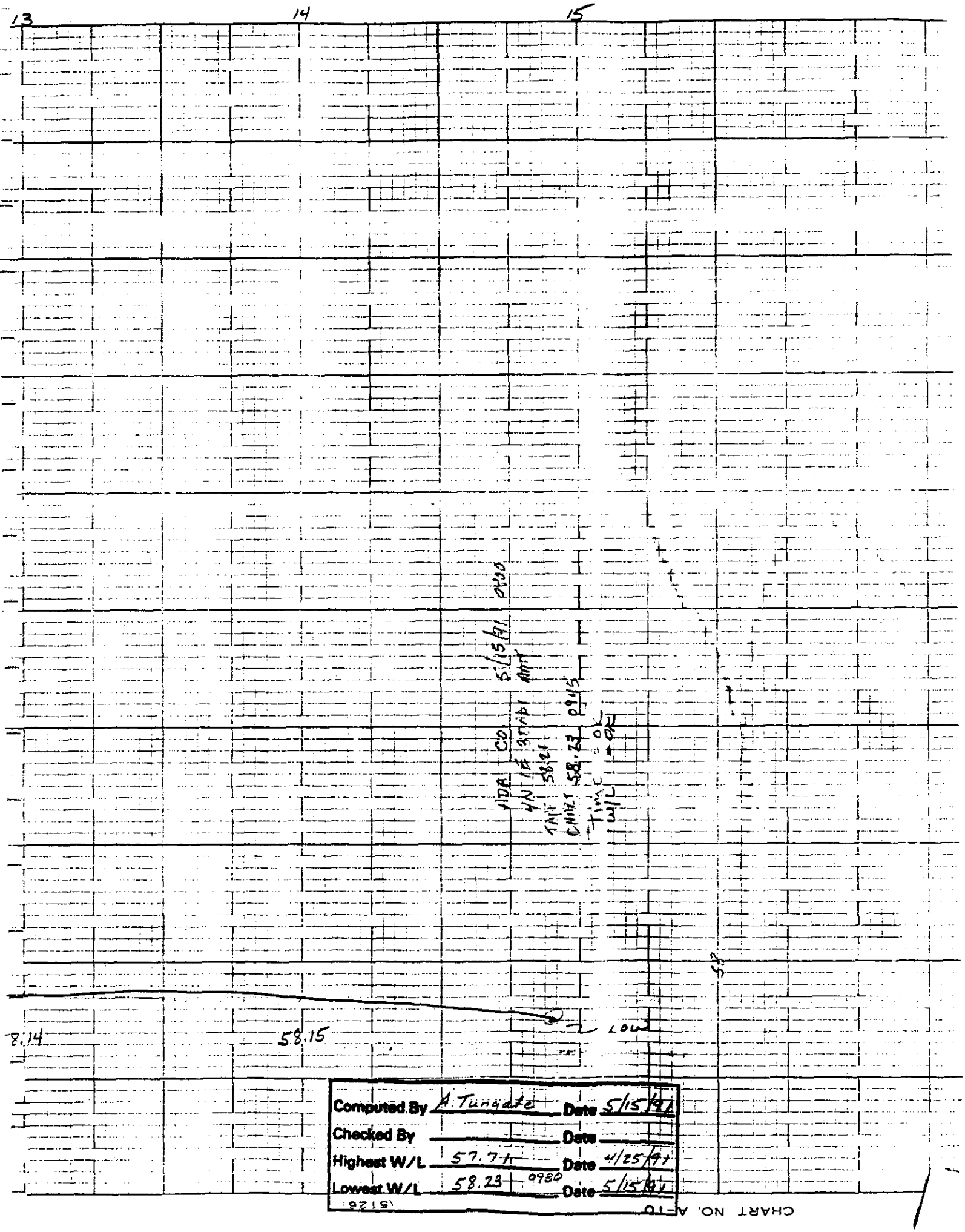
240=A*

57.87 57.88 57.84


3
4
5/5/91
57.95
240=A
57.77
57.85
45 FT


6
7
8
9
8.01
58.10
58.14
58.18
44 FT.
Charts-Inc


5/10/91
11
12
58.19
240=A.+
58.19
58.18
58.17
43 FT
Charts-Inc
CHART NO. A-10



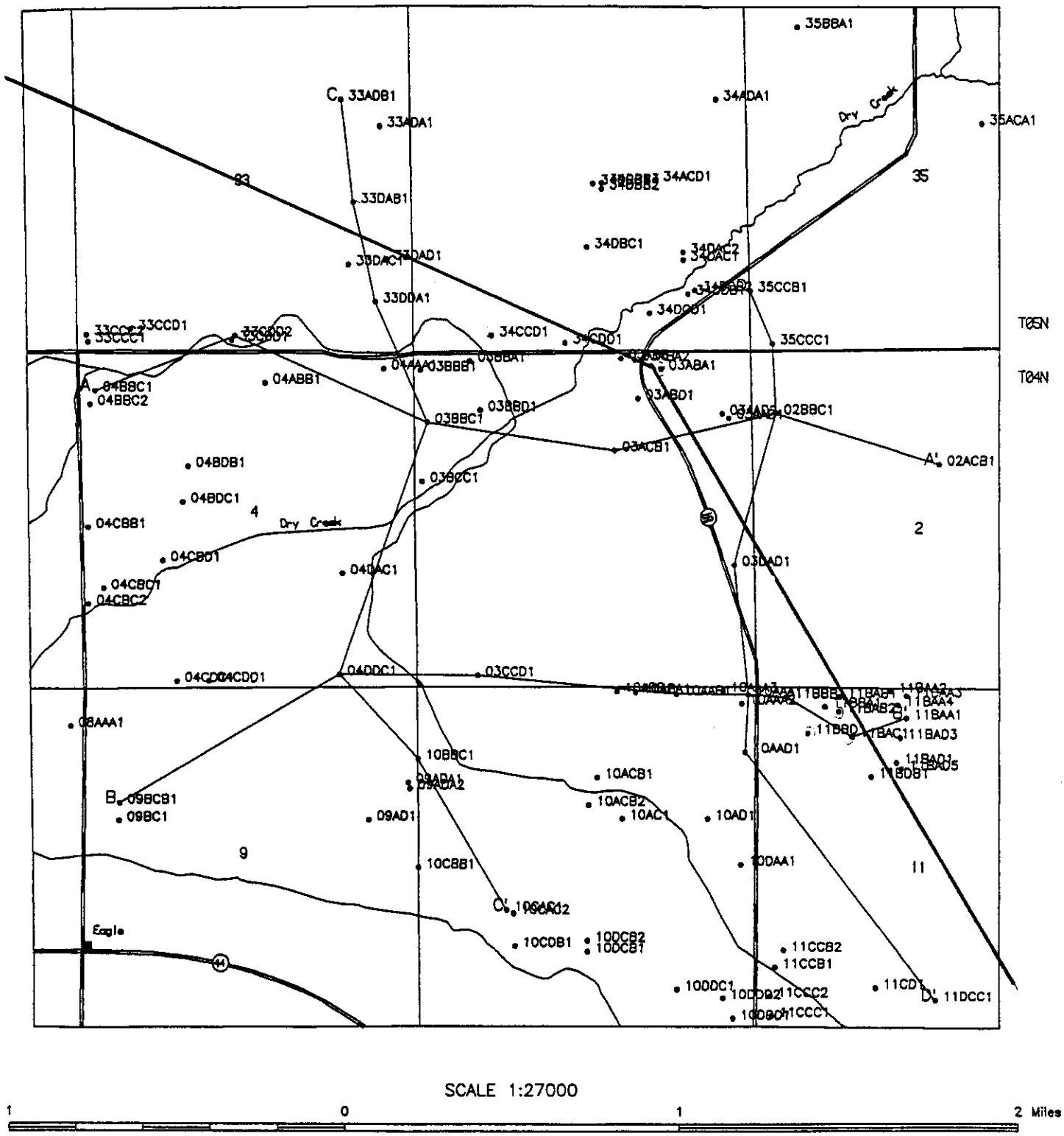
Computed By	A. Tungate	Date	5/15/91
Checked By		Date	
Highest W/L	57.71	Date	4/25/91
Lowest W/L	58.23 0930	Date	5/15/91

(5126)

CHART NO. A-10

Appendix D
SUPPLEMENTAL HYDROGEOLOGIC DATA FROM THE IDWR

NORTH EAGLE AREA



SCALE 1:27000

1 0 1 2 Miles

Figure 1. MAP SHOWING LOCATIONS OF INVENTORIED WELLS

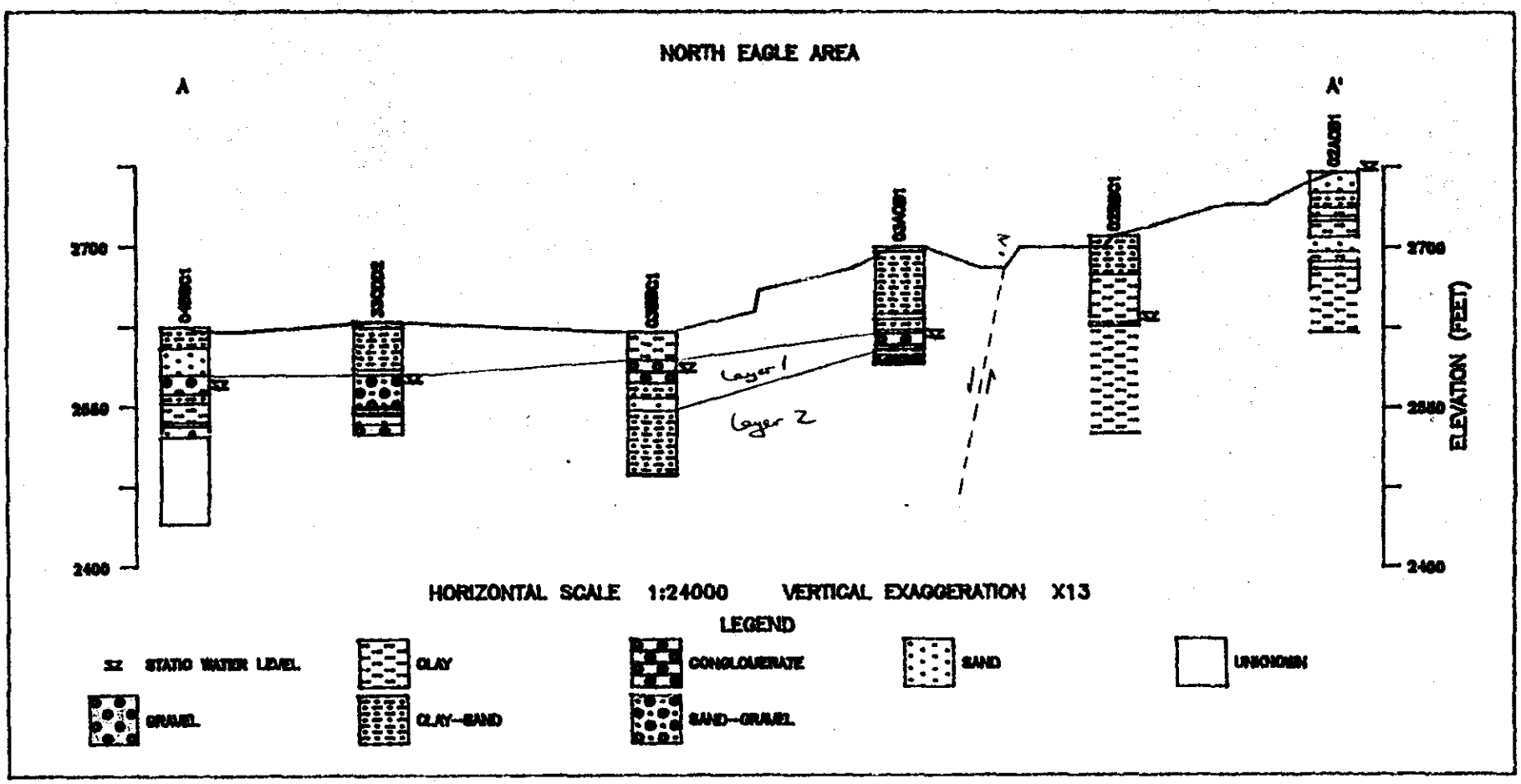


Figure 1. GEOLOGIC CROSS SECTION: A – A'

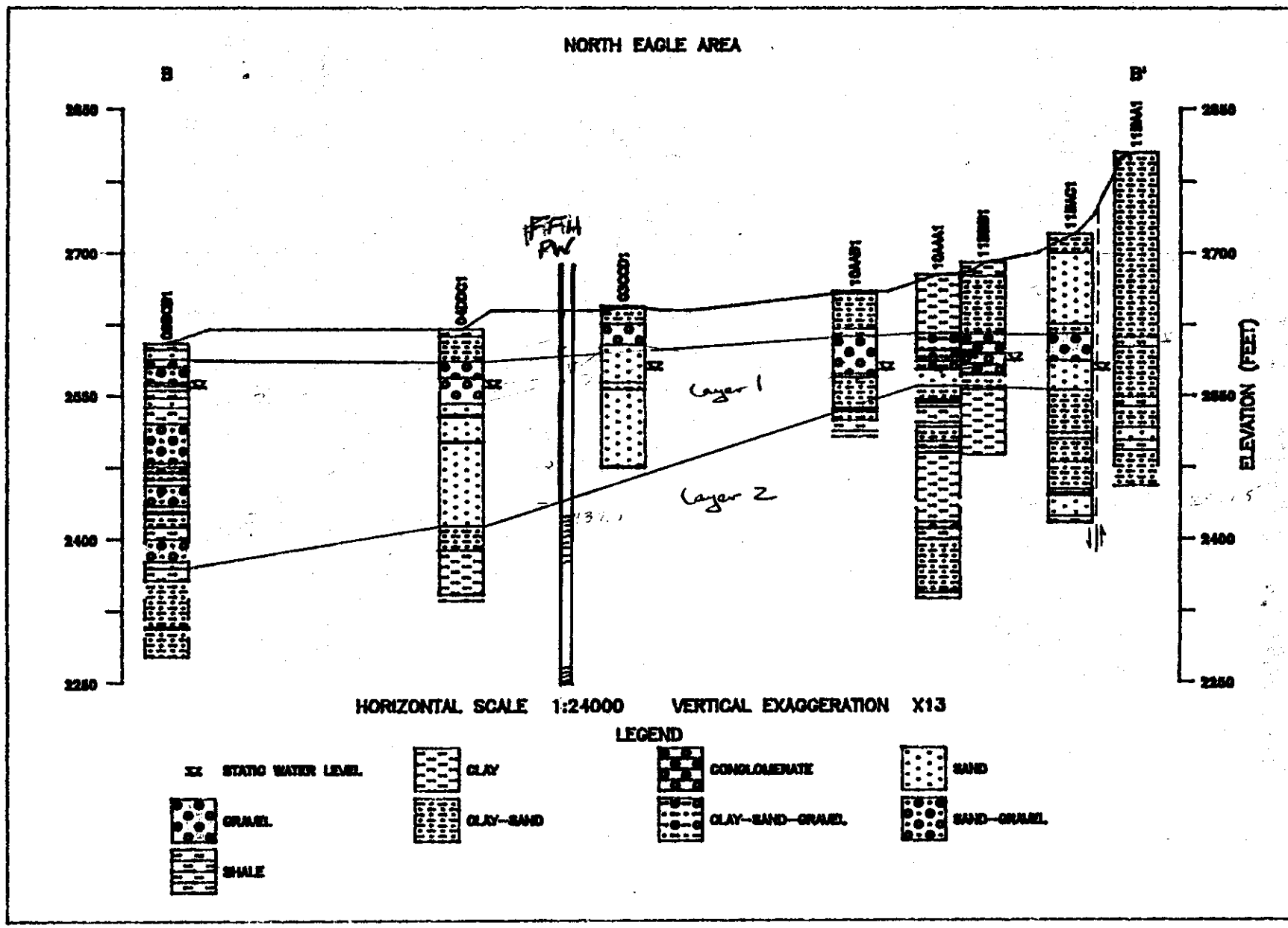


Figure 2. GEOLOGIC CROSS SECTION: B – B'

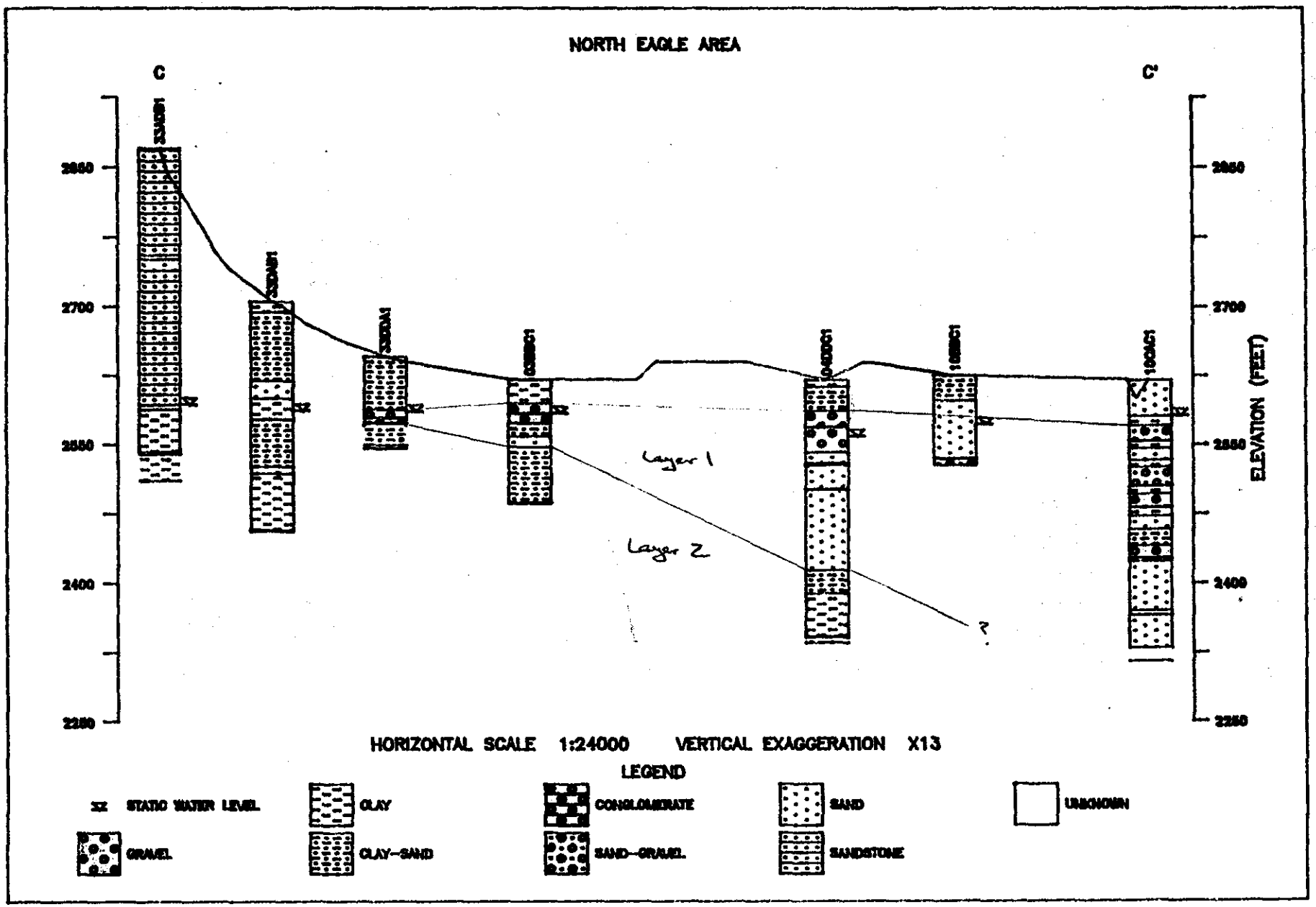


Figure 3. GEOLOGIC CROSS SECTION: C – C'

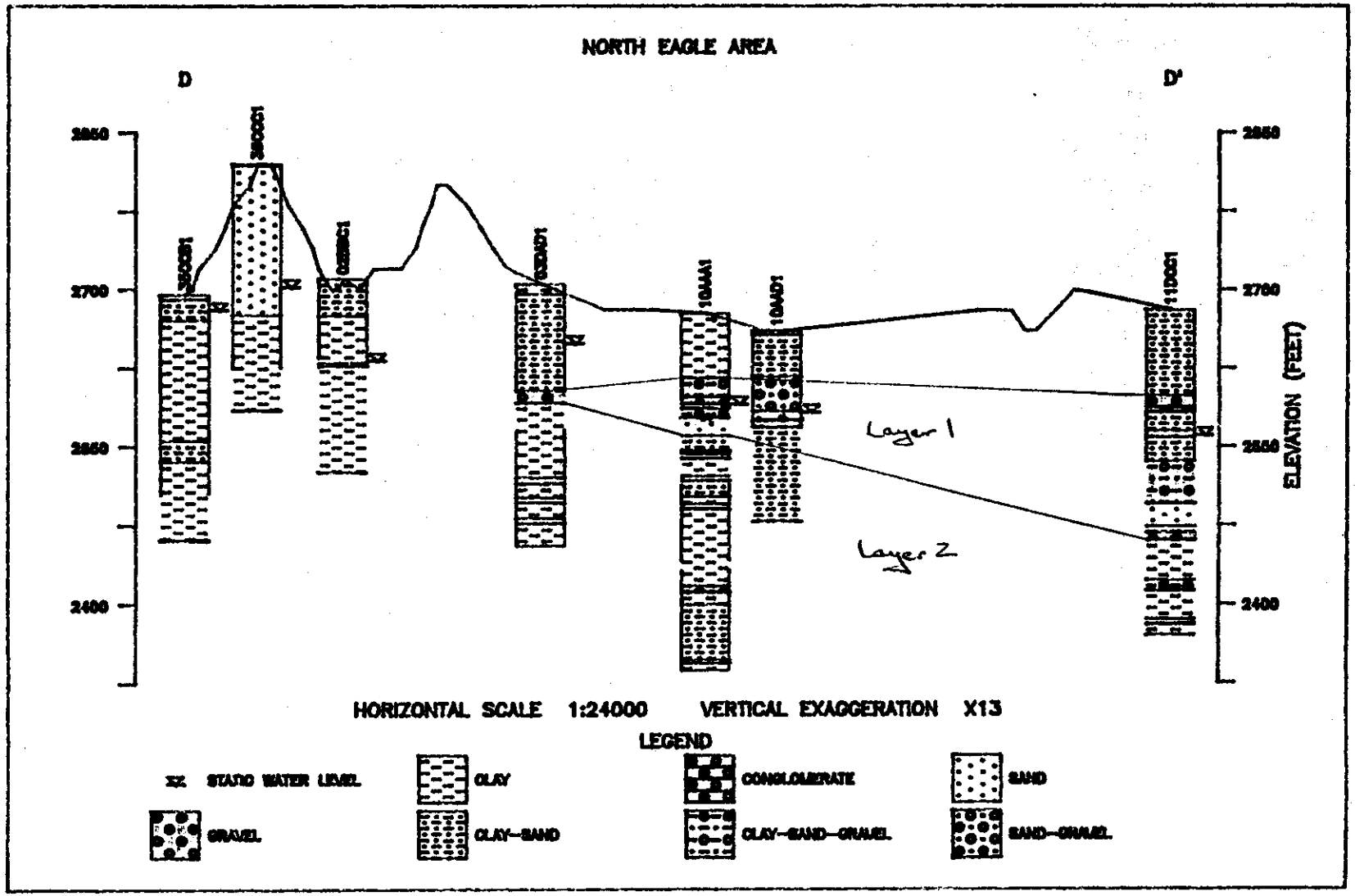


Figure 4. GEOLOGIC CROSS SECTION: D – D'

Appendix E
PUMPING TEST CALCULATION SHEETS

Appendix E-1
PRODUCTION WELL

SUBJECT FFH, INC PUMP TEST BY C. HEART DATE 5/13/91

SHEET 1 OF 1

PROJECT NO. B01 31684.A1

PRODUCTION WELL

SL TIME DRAWDOWN

T_1 0 - 38 mins

$$T = \frac{264\,Q}{\Delta s} = \frac{264 \times 743}{64.54 - 48.18} = 11,986 \text{ gpd/ft}$$

T_2 38 - 10,000+ mins

$$T = \frac{264\,Q}{\Delta s} = \frac{264 \times 743}{75.91 - 74.55} = 143,749 \text{ gpd/ft}$$

Early time data affected by casing storage (UOP Johnson, 1978)

t_c = time at which casing storage effects negligible

$$t_c = \frac{.6\left(d_c^2 - d_p^2\right)}{Q/s}$$

d_c = diameter casing (inches) = 28

d_p = diameter pump column (in.) = 10

Q/s = specific capacity at time t_c

Assume t_c = 40 min

$$Q/s\,@\,t_c = \frac{750 \text{ gpm}}{73'} = 10.3 \text{ gpm/ft}$$

$$\therefore t_c = \frac{.6\left(28^2 - 10^2\right)}{10.3} = 41 \text{ min}$$

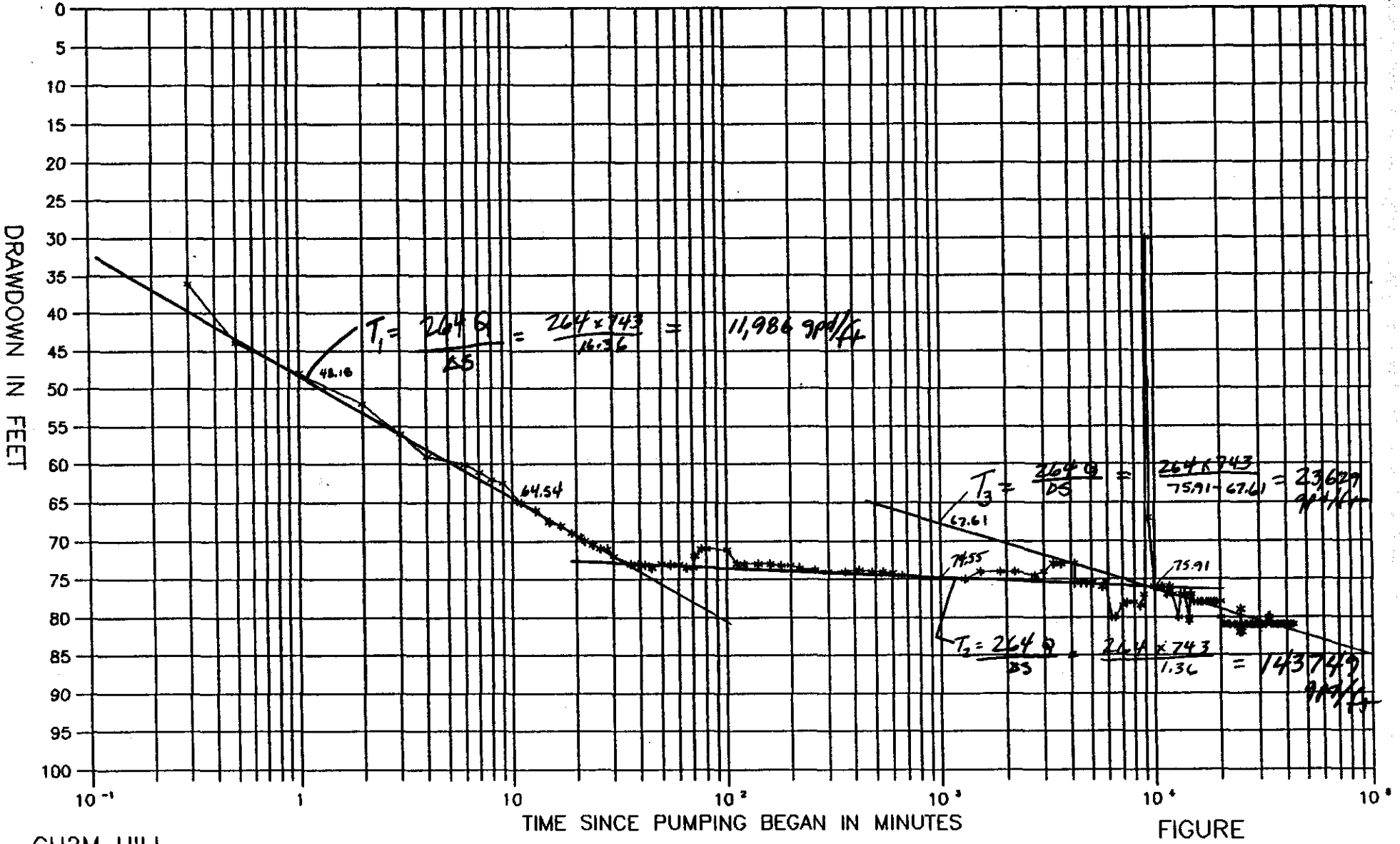
$\therefore$ Casing storage affects T_1 and T_2 is correct T

4/80 $T_2 = \frac{4T_1}{E}$ where E is well efficiency and E > 30 percent

$$E = \frac{4T_1}{T_2} \quad \frac{4 \times 11986}{143\,749} = 33\%$$

MAY 24, 1991

FLOATING FEATHER HILLS, INC.



CH2M HILL
B0131684.A1

FIGURE
PRODUCTION WELL
TIME DRAWDOWN

SUBJECT FFH, ING PUMP TEST BY C. FEAST DATE 5/13/91

SHEET 1 OF 1

PROJECT NO. B0131684.A1

PRODUCTION WELL TIME RECOVERY

THIS CURVE HAS 2 DISTINCT STRAIGHT LINE SEGMENTS

EARLY TIME $t/t' = 4000 - 175 \pm$

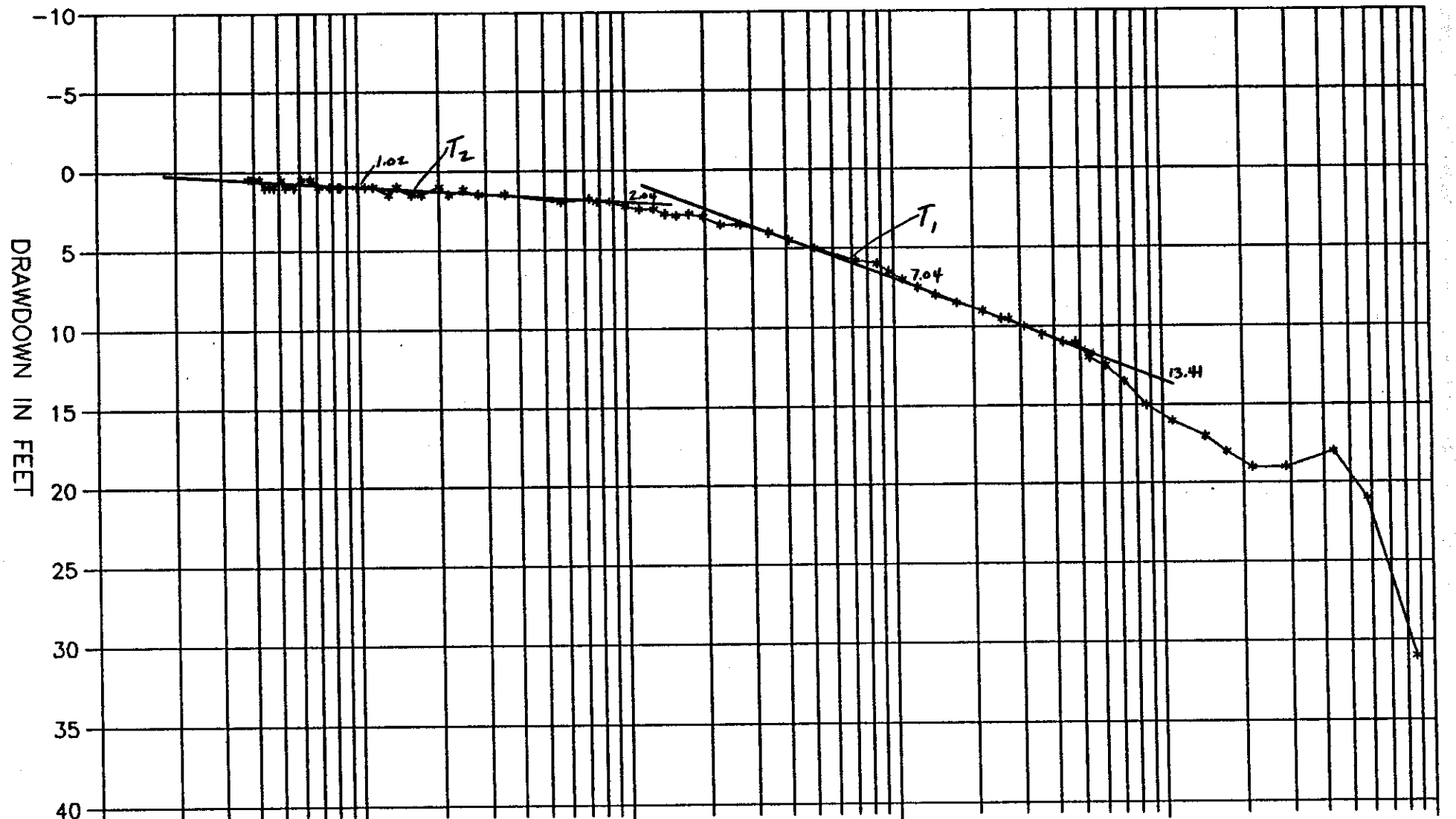
LATE TIME $t/t' = 175$ to EOT @

$$T_1 \text{ (EARLY)} = \frac{264\,Q}{\Delta s} = \frac{264 \times 743}{13.41 - 7.04} \pm 30,793 \text{ gpd/ft}$$

$$T_2 \text{ (LATE)} = \frac{264\,Q}{\Delta s} = \frac{264 \times 743}{2.04 - 1.02} = 192,306 \text{ gpd/ft}$$

MAY 24, 1991

FLOATING FEATHER HILLS, INC.



CH2M HILL
B0131684.A1

FIGURE
PRODUCTION WELL
TIME RECOVERY

Appendix E-2
HOLGATE WELL

SUBJECT FFH, INC PUMP TEST BY C-FEAST DATE 5/14/91

SHEET 1 OF 2

PROJECT NO. B07 31684.A1

HOLGATE TIME DD

METHOD: PRICKETT DELAYED YIELD

MATCH PT A

$1/\mu_a = 1 \quad \mu_a = 1$

$W(\mu_a, r/d) = 1$

$r/d = .6$

$t = 13 \text{ min} = \frac{13}{1,440} = .009 \text{ days}$

$A = .8 \text{ ft}$

$r = 900 \text{ ft}$

$Q = 143037 \text{ ft}^3/\text{day}$

$KD = \frac{Q}{4\pi A} \times W(\mu_a, r/d) = \frac{143037}{4\pi \times .8} \times 1 = 14,228 \text{ ft}^2/\text{day}$

$= 106,427 \text{ gpd/ft}$

$S_a = \frac{\mu_a \, 4 \, KD \, t}{r^2} = \frac{1 \times 4 \times 14,228 \times .009}{900^2} = .0006$

Match PT. B =

$\frac{1}{\mu_y} = 1$

$W(\mu_y, r/A) = 1$

$r/d = .6$

$t = 250 \text{ min} = .1736 \text{ days}$

$A = .8 \text{ ft}$

$KD = \frac{Q}{4\pi A} \times W(\mu_y, r/A) = \frac{143037}{4\pi .8} \times 1 = 14,228 \text{ ft}^2/\text{day}$

$= 106,427 \text{ gpd/ft}$

$$S_y = \frac{\nu_y \, 4 \, KD \, t}{r^2} = \frac{1 \times 4 \times 14{,}228 \times .1736 \text{ days}}{900^2}$$

$$= .0122$$

$$\gamma = 1 + \frac{S_y}{S_a} = 1 + \frac{.0122}{.0006} = 21.33$$

$r = 900$

$r/B = .6$ $\quad \therefore B = r/.6 = 900/.6 = 1{,}500$

$$B = \sqrt{\frac{KD}{\alpha S_y}} \qquad \alpha = \frac{KD}{S_y B^2} = \frac{14{,}228}{(.0122)(1500)^2} = .52$$

From Kir figure 33

$r/B = .6$, $\alpha t_{wt} = 3.6$

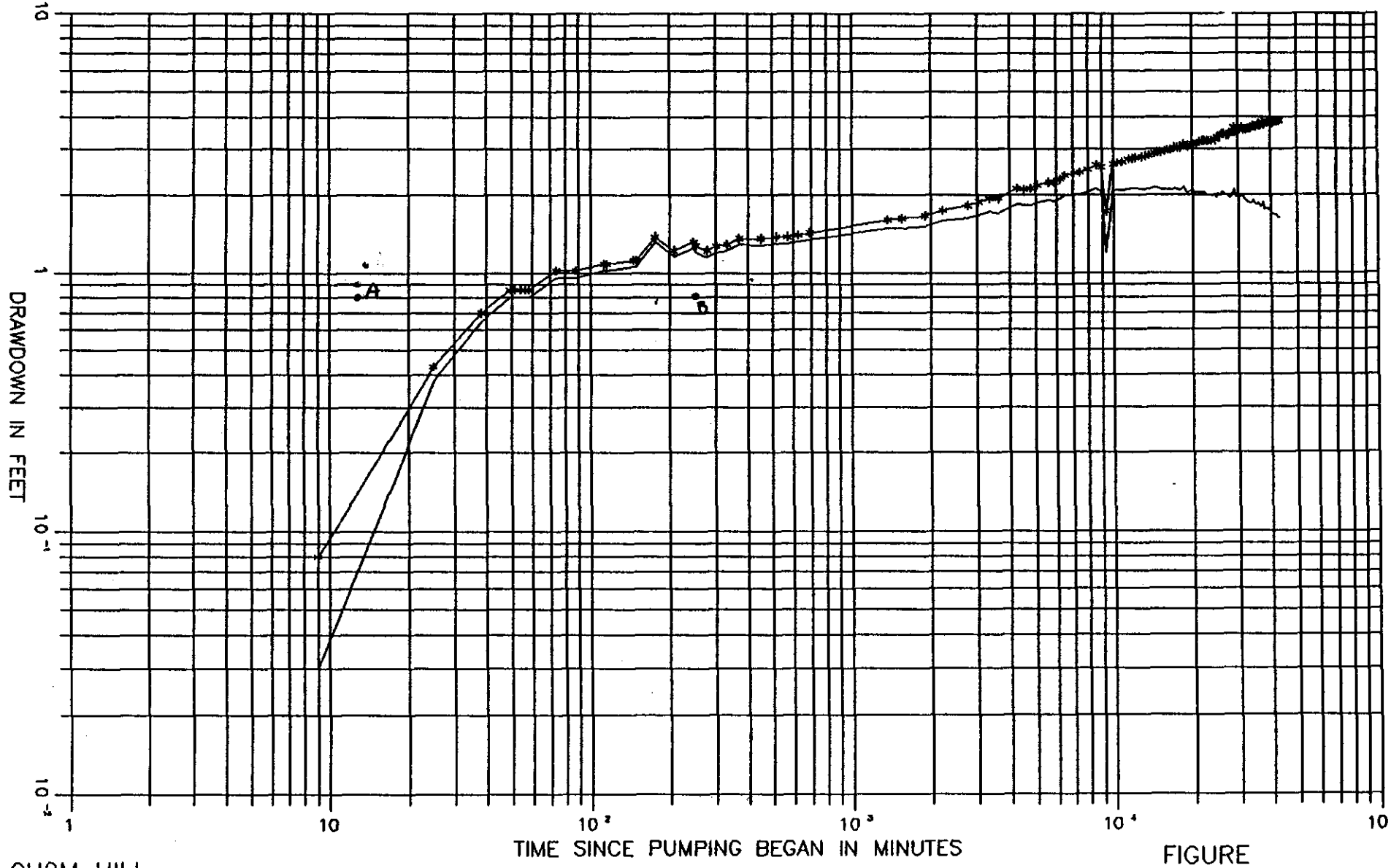
$\therefore t_{wt} = 3.6/\alpha = 3.6/.52 = 6.9$ days (9,936 mins)

$\therefore$ after 6.9 days gravity drainage becomes negligible

$KD = T = 14{,}228 \text{ ft}^2/\text{day} = 106{,}427 \text{ gpd/ft}$

MAY 24, 1991

FLOATING FEATHER HILLS, INC.



CH2M HILL
B0131684.A1

FIGURE

HOLGATE WELL
TIME DRAWDOWN

SUBJECT FFH Pump Test BY C. Feast DATE 5/14/91

SHEET 1 OF 1

PROJECT NO. B01 31684.A1

HOLGATE TIME RECOVERY

This curve has 3 distinct straight line portions

T_1 (early Time)

T_2 (middle time)

T_3 (Late Time)

$T = \frac{264\,Q}{\Delta S}$

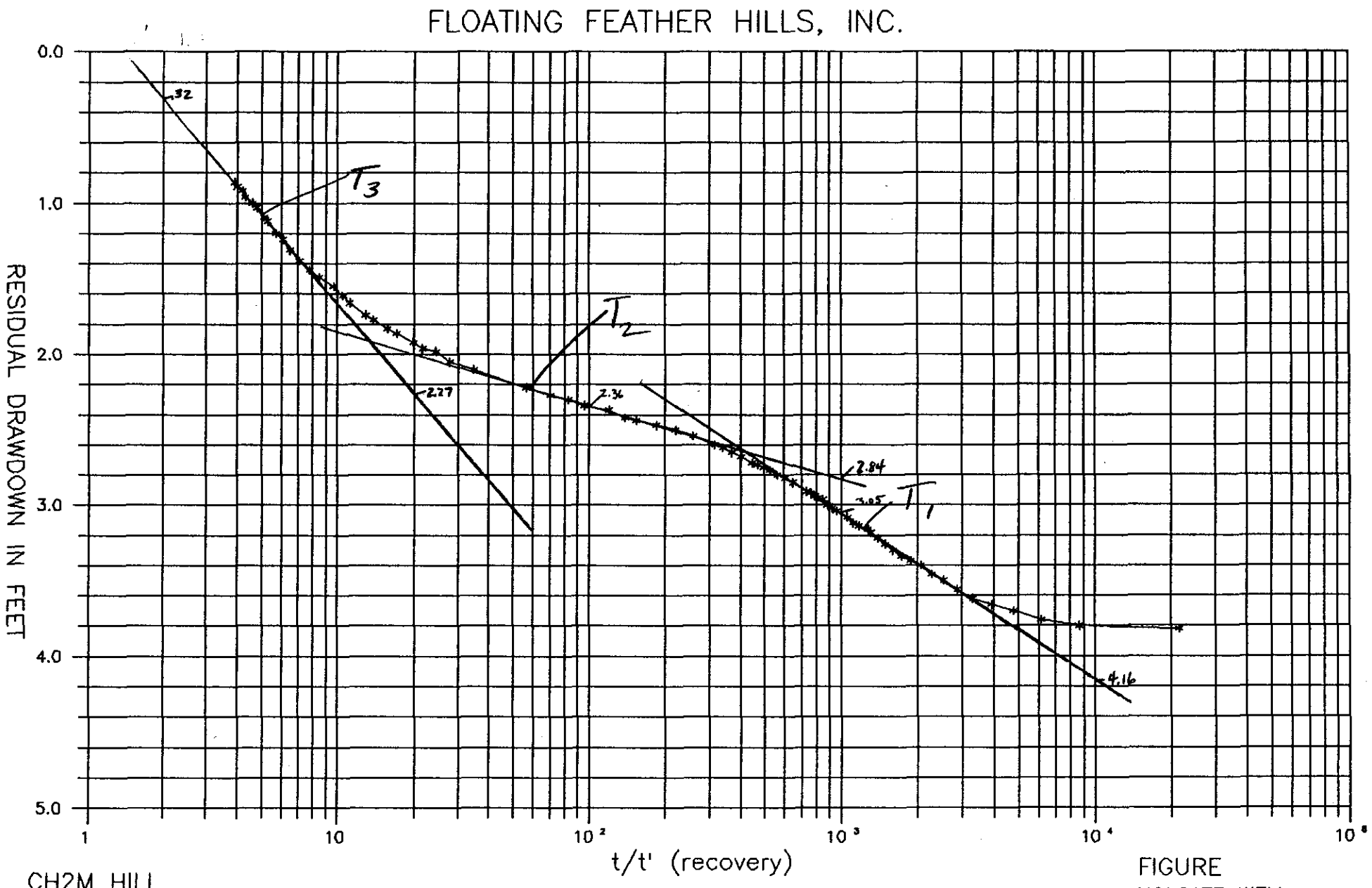
$Q = 743$ gpm

$$T_1 = \frac{264 \times 743}{4.16 - 3.05} = 176,714 \text{ gpd/ft}$$

$$T_2 = \frac{264 \times 743}{2.84 - 2.36} = 408,650 \text{ gpd/ft}$$

$$T_3 = \frac{264 \times 743}{2.27 - .32} = 100,591 \text{ gpd/ft}$$

MAY 24, 1991



CH2M HILL
B0131684.A1

FIGURE
HOLGATE WELL
TIME RECOVERY

SUBJECT EFH, ENC PUMP TEST BY C FEGAN DATE 3/14/91
SHEET 1 OF 31
PROJECT NO. B01 31684.41

HOLGATE TIME DD

1) Semi log "Chow" method Krusemann & Ridder p. 57

A') $\Delta s_A' = 1.51 - 1.05 = .46$

A' = $\Delta A' = 1.51$ ft

$t_A' = 1000 \text{ min} = \frac{1000 \text{ min}}{1440 \text{ min/day}} = .69$ day

$s_A = \frac{Q}{4\pi KD} W(u)$

$F(u) = \frac{s_A'}{\Delta s_A'} = \frac{1.51}{.46} = 3.28$

$F(u) = \frac{W(u) e^u}{2.30}$ from fig 14 $u = .0004$, $W(u) = 7.6$

Q = 743 gpm ÷ 7.48 gals/ft³

= 99.33 ft³/min × 1440 min/day

= 143,037 ft³/day

r = 900 ft

$s_A = \frac{Q}{4\pi KD} W(u)$

$KD = \frac{Q}{4\pi s_A} W(u)$

$KD = \frac{143,037}{4\pi \times 1.51} (7.6) = 57,290 \text{ ft}^2/\text{day}$

$= 428,526 \text{ gpd/ft}$

$S = \frac{4uKD}{r^2} t_A = \frac{4(.0004)(57,290)(.69)}{900 \times 900} = 8 \times 10^{-5}$

SUBJECT EFH Pump Test BY CF DATE 5/14

SHEET 2 OF 34

PROJECT NO. BC7 31684.A1

HOLGATE TIME DD

A") $\Delta SA'' = 2.64$

$\Delta SA'' = 2.67 - 1.073 = 1.54$

$t_{A''} = 10{,}000 \text{ min} \times \frac{1 \text{ day}}{1440 \text{ min}} = 6.94 \text{ days}$

$F(u) = \frac{SA''}{\Delta SA''} = \frac{2.64}{1.56} = 1.69$

$w(u_a'') = 3.8$

$u_a'' = .012$

$Q = 743 \text{ gpm} \times \frac{1 \text{ ft}^3}{7.48 \text{ gal}} \times \frac{1440 \text{ min}}{1 \text{ day}} = 143{,}037 \text{ ft}^3/\text{day}$

$r = 900 \text{ ft}$

$S_A = \frac{Q}{4\pi KD}\, w(u)$

$KD = \frac{Q}{4\pi SA''}\, w(u)$

$KD = \frac{143{,}037 \text{ ft}^3}{4\pi \times 2.64} \times 3.8 = 16{,}572 \text{ ft}^2/\text{day} \times \frac{7.48 \text{ gal}}{\text{ft}^3} = 123{,}960 \text{ gpd/ft}$

$S = \frac{4 u_a'' KD}{r^2} t_{a''}$

$S = \frac{4 (.012) 16{,}572}{900 \times 900} \times 6.94 = .0008$

SUBJECT FFH Pump Test BY C.F. DATE 5/14
SHEET 3 OF 34
PROJECT NO. B0131684.41

HOLGATE TIME DD

A''')

$\Delta SA''' = 4.0 - 1.74 = 2.26$

$SA''' = 3.473$

$t_{A'''} = 30{,}000 \text{ min} \times \frac{1 \text{ day}}{1440 \text{ min}} = 20.83 \text{ days}$

$F(u) = \frac{SA'''}{\Delta SA'''} = \frac{3.473}{2.26} = 1.54$

$w(u) = 3.4$

$u = .017$

$Q = 143{,}037 \text{ ft}^3/\text{day}$

$r = 900 \text{ ft}$

$KD = \frac{Q}{4\pi SA'''} w(u) = \frac{143{,}037}{4\pi \cdot 3.473} \times 3.4$

$= 11{,}153 \text{ ft}^2/\text{day} \times \frac{7.48 \text{ gal}}{\text{ft}^3} = 83{,}424 \text{ gpd/ft}$

$S = \frac{4 u a''' KD}{r^2} t_{a'''}$

$S = \frac{4(.017)(11{,}153)}{900 \times 900} \times 20.83 = .0195$

CHECK Validity of straight line method for $u \leq .02$
Walton p 212

$t_{SL} = \frac{1.35 \times 10^5 r^2 S}{T}$ (gal-ft-day units)

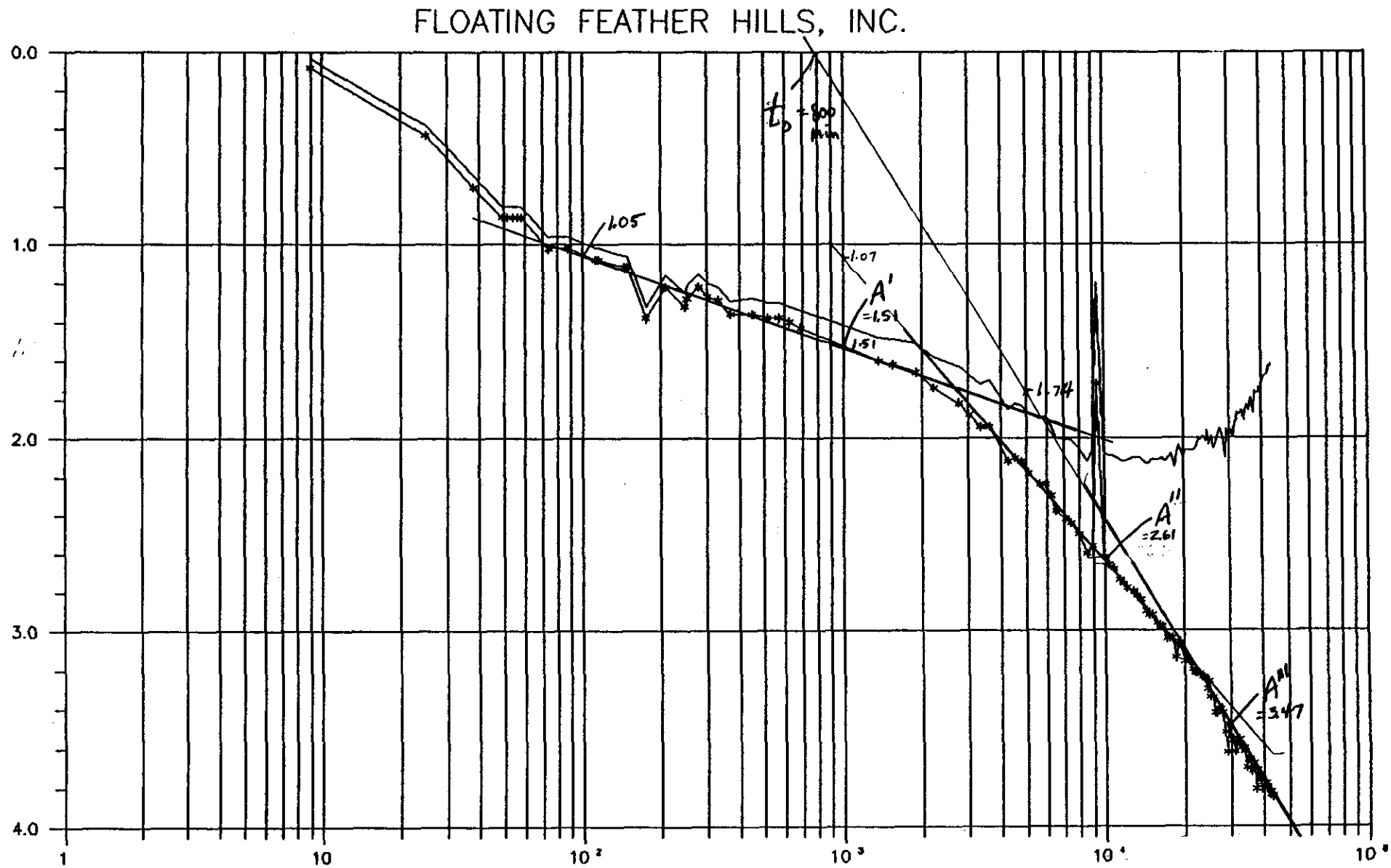
$t_{SL}A' = \frac{1.35 \times 10^5 \times 900^2 \times .8 \times 10^{-5}}{428{,}526} = 20.4 \text{ min}$

∴ T:A' is valid

$t_{SL}A'' = \frac{1.35 \times 10^5 \times 900^2 \times .0068}{123{,}960} = 5{,}999 \text{ min}$

∴ T:A'' is VALID

MAY 24, 1991



CH2M HILL
B0131684.A1

FIGURE

HOLGATE WELL
TIME DRAWDOWN

$$t_{sc}\,A''' = \frac{1.35 \times 10^5 \times 900^2 \times .0195}{83,424} = 25,560 \text{ min}$$

$\therefore T_{A'''}$ is valid

Conclusion:

Very LATEST time should provide best Aquifer characteristics because of effect of gravity drainage on early time.

Appendix E-3
CARSON WELL

SUBJECT FFH, INC PUMP TEST BY C. FRANT DATE 5/14/91

SHEET 1 OF 2

PROJECT NO. B07 31684.41

CARSON SL TIME DD

METHOD CHOW

EARLY TIME 200 - 2000 min

LATE TIME 9000 - EOT @ ~45000 min

USE LATE TIME TO NEGATE EFFECTS OF GRAVITY DRAINAGE

LATE TIME

$SA''' = 2.40$

$\Delta SA''' = 3.25 - 1.09 = 2.16$

$t_{A'''} = 40{,}000 \text{ min} = 27.8 \text{ days}$

$Q = 143037 \text{ ft}^3/\text{day}$

$r = 1300 \text{ ft}$

$$F(u) = \frac{SA'''}{\Delta SA'''} = \frac{2.40}{2.16} = 1.11$$

$W(u) = 2.4$

$(u) = .06$

$$T = \frac{Q}{4\pi SA'''} \times W(u) = \frac{143037}{4\pi \times 2.40} \times 2.4 = 11{,}383 \text{ ft}^2/\text{day}$$

$$= 85{,}141 \text{ gpd/ft}$$

$$S = \frac{4 T t_{A'''}}{r^2} \times u = \frac{4 \times 11{,}383 \times 27.8}{1300^2} \times .06 = .0449$$

Early time A''' to check

$SA''' = .20$

$\Delta SA''' = .28 - 0 = .28$

$t_{A'''} = 1000 \text{ min} = .6944$

$F(u) = \frac{SA'''}{\Delta SA'''} = .71$ $W(u) = 6.3$ $u = .17$

$$T = \frac{Q}{4\pi SA'''} \times W(u) = \frac{143037}{4\pi \cdot .2} \times 6.3 = 73{,}986 \text{ ft}^2/\text{day} = 553{,}418 \text{ gpd/ft}$$

$$S = \frac{4 T t_{A'''}}{r^2} \times u = \frac{4 \times 73986 \times .6944}{4300^2} \times .17 = .0207$$

SUBJECT FEH, INC BY C. HEART DATE 5/14/91
SHEET 2 OF 2
PROJECT NO. B07 31684.41

Carson SL TIME DD Cont'd

Adjusted Drawdown Curve 4000 – 15,000 min

$s_A'' = .73$
$\Delta s_A'' = 1.65 - .73 = .92$
$t_A'' = 10{,}000$ min $= 6.94$ days

$Q = 143037$ ft³/day
$r = 1300$ ft

$$F(u) = \frac{s_A''}{\Delta s_A''} = \frac{.73}{.92} = .79$$

$w(u) = 1.6$
$u = .12$

$$T = \frac{Q}{4\pi s_A'} \times w(u) = \frac{143037}{4\pi \cdot .73} \times 1.6 = 24{,}948 \text{ ft}^2/\text{day}$$
$$= 186{,}610 \text{ gpd/ft}.$$

$$S = \frac{4 T t_A''}{r^2} \times u = \frac{4 \times 24{,}948 \times 6.94}{1300^2} \times .12 = .0492$$

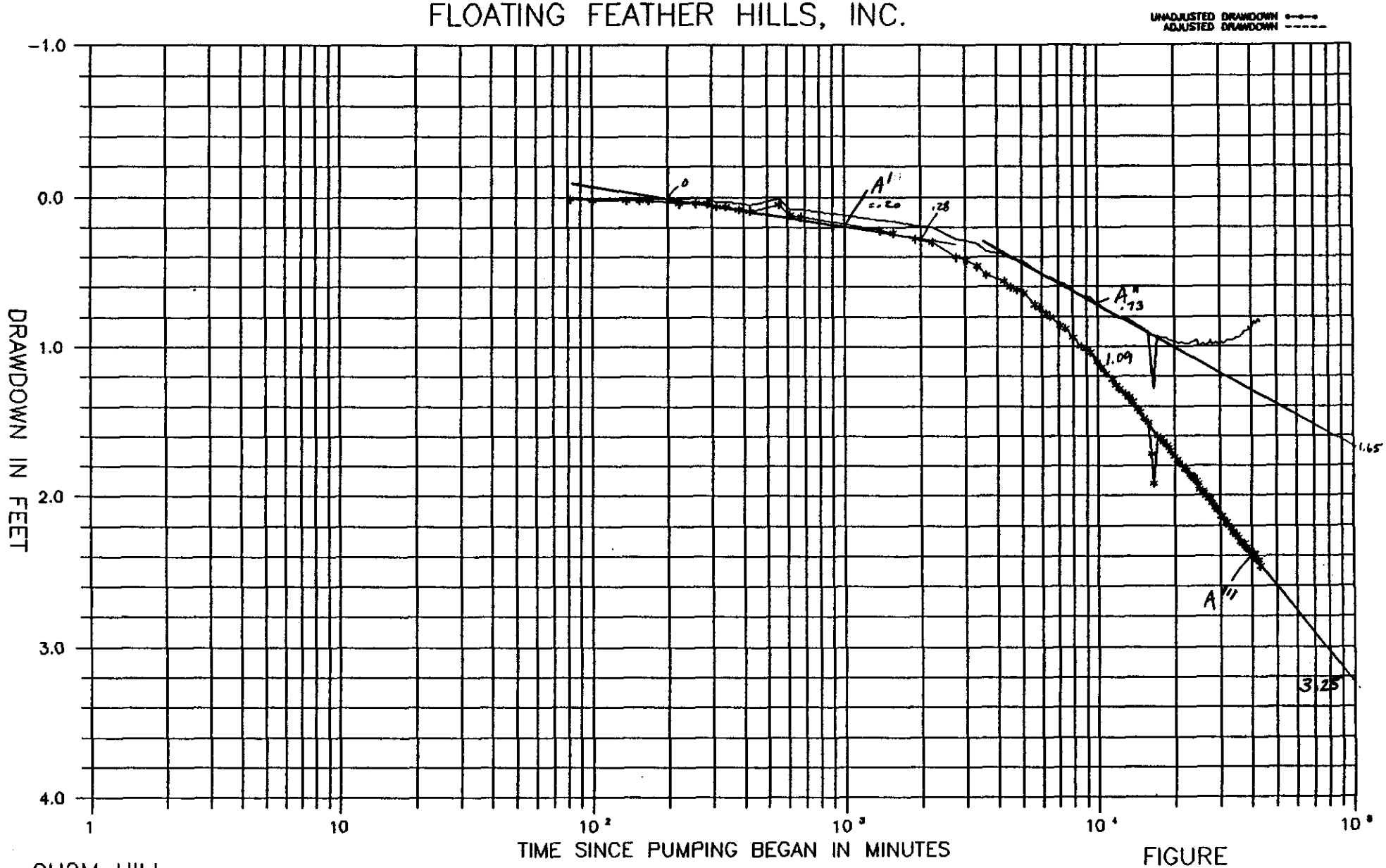
Check Validity of Jacob Straight Line Method Walton p212

$$t_{SL} = \frac{1.35 \times 10^5 \, r^2 S}{T} \quad \text{(gal-ft-day units)}$$

$$t_{SLA'} = 1.35 \times 10^5 \times 1300^2 \times = \frac{1.35 \times 10^5 \times 1300^2 \times .039}{88{,}869} = 100{,}000 \text{ min}$$

∴ T_A' (Late time data) is NOT VALID Therefore early time data is also not valid.

MAY 24, 1991



CH2M HILL
B01J1684.A1

FIGURE
CARSON WELL
TIME DRAWDOWN

SUBJECT FFH, INC. PUMP TEST BY C. FOAST DATE 5/17/91

SHEET 1 OF 1

PROJECT NO. B0131684.A1

CARSON TIME DD DELAYED YIELD

MATCH PT B Late time

$r/b = 3.5$ POOR early time match

$1/\mu_{ay} = 1$

$w(u_{ay}, r/d) = 1$

$r/d = 2.5$

$t = 2600$ min $= 1.8$ days

$A = 1$ ft

$r = 1300$ ft

$Q = 143037$ ft³/day

$$KD = \frac{Q}{4\pi A}(w(u_{ay}, r/A) = \frac{143037}{4\pi \cdot 1}(1) = 11,383 \text{ ft}^2/\text{day}$$

$$= 85,141 \text{ gpd}$$

$$S_y = \frac{\mu_{ay} 4 KD t}{r^2} = \frac{1 \times 4 \times 11,383 \times 1.8}{1300^2} = .0485$$

Match pt A (poor fit) Early time

$1/\mu_a = 100$ $\mu_a = .01$

$w(\mu_{ay}, r/b) = 1$

$r/d = 2.5$

$t = 440$ min $= .28$

$A = 1.0$ ft

$r = 1300$

$$KD = \frac{Q}{4\pi s}(w(u_{ay}, r/A)) = \frac{143037}{4\pi \cdot 2} \times 1 = 11,383 \text{ ft}^2/\text{day}$$

$$= 85,141 \text{ gpd}$$

$$S = \frac{\mu_a 4 KD t}{r^2} = \frac{1 \times 4 \times 11,383 \times .28}{1300^2} = .0075$$

SUBJECT FFH, INC BY C. FEAST DATE 5/14/91

SHEET 2 OF 2

PROJECT NO. 801316844.A1

CARSON Delayed Drainage Contrd

$$B = \frac{r}{r/B} = \frac{1300}{2.5} = 520 \text{ ft}$$

$$\alpha = \frac{KD}{S_Y B^2} = \frac{11,382}{.0485(520)^2} = .868 \text{ days}^{-1}$$

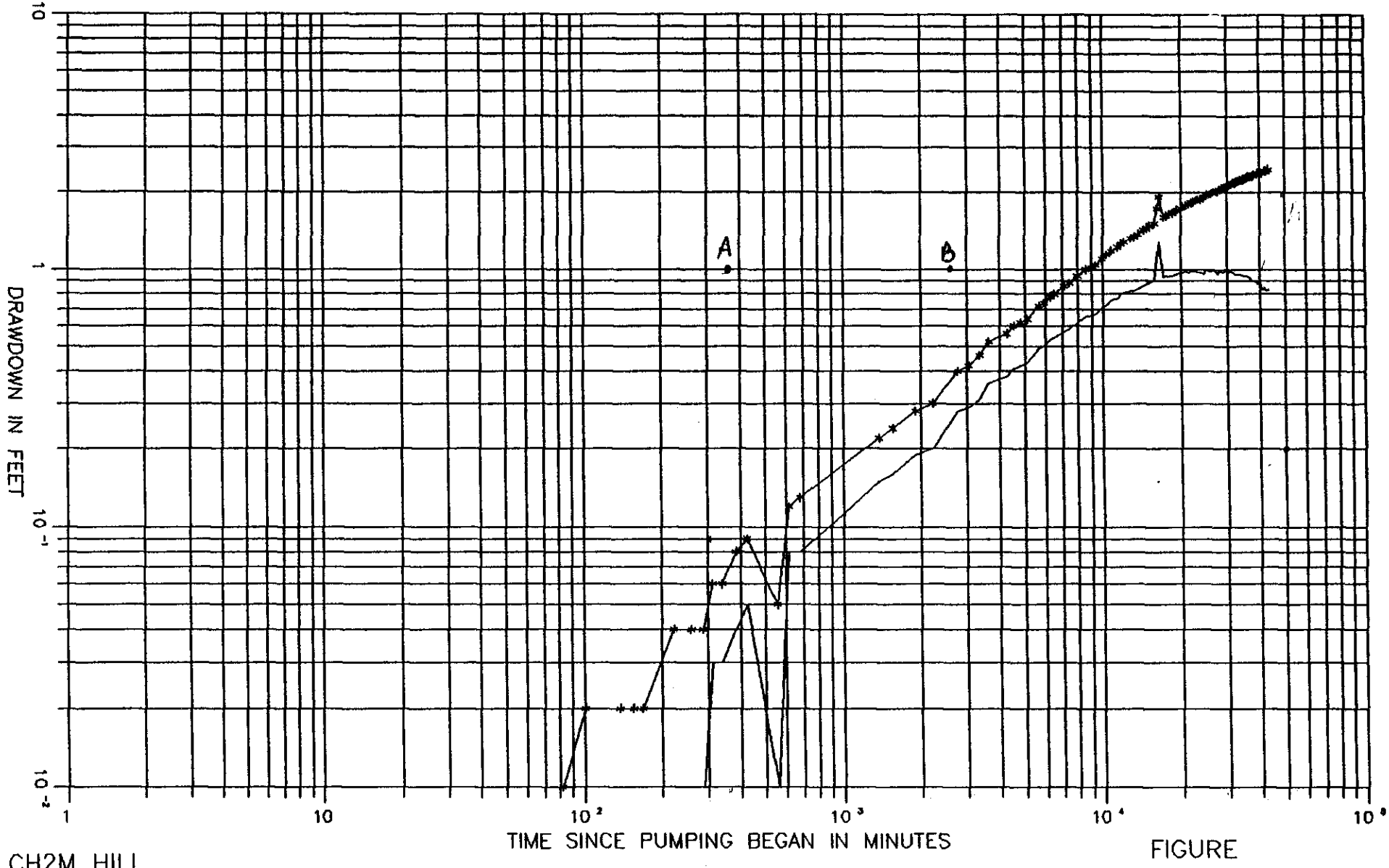
$$\gamma = 1 + \left(S_Y / S_a\right) = 1 + \frac{.0485}{.00275} = 17.5$$

$r/B = 2.5 \quad \alpha t_{wt} = 8.3$

$\alpha t_{wt} = 8.3 / .868 =$ 12.56 days before gravity drainage becomes negligible

MAY 24, 1991

FLOATING FEATHER HILLS, INC.



CH2M HILL
B0131684.A1

FIGURE
CARSON WELL
TIME DRAWDOWN

Appendix E-4
EAGLE HILLS GOLF COURSE WELL

SUBJECT EFH, FPC PUMP TEST BY C. HEAST DATE 5/15/91
SHEET 1 OF 3
PROJECT NO. B01 31684.A1

EHGC NON EQUILIBRIUM THEIS

THIS CURVE SHOWS TWO EQUILIBRIUM SHAPES

early time 0 - 3000 min — MATCH PT A

Late time 3000 - 40,000 min — MATCH PT B

EARLY TIME MATCH PT A

t = 145 min = .101 days
A = .13 ft
$w(u)$ = 1
$1/u$ = 1

Q = 143,037 ft³/day
r = 2500 ft

$$T = \frac{Q}{4\pi A} \times w(u) = \frac{143,037}{4\pi .13} \times 1 = 87,558 \text{ ft}^2/\text{day}$$
$$= 654,935 \text{ gpd/ft}$$

$$S = \frac{4Tt}{r^2} u = \frac{4 \times 87,558 \times .101}{2500^2} \times 1 = .005T$$

LATE TIME - MATCH PT B

t = 1000 min = .6944 days
A = .32
$w(u)$ = 1
$1/u$ = 1

$$T = \frac{Q}{4\pi A} \times w(u) = \frac{143,037}{4\pi \times .32} \times 1 = 35,570 \text{ ft}^2/\text{day}$$
$$= 266,066 \text{ gpd/ft}$$

$$S = \frac{4Tt}{r^2} \times u = \frac{4 \times 35,570 \times .69}{2500} = .0157$$

SUBJECT FFH, INC PUMP TEST BY C. FAST DATE 5/15/91
SHEET 2 OF 3
PROJECT NO B01 31684.41

EH6C Non Equib Theis Cont'd

Match Pt. C assumes 1 continuous type curve match
Early and late time match well, middle time below curve

$W(u) = 1$
$1/u = 1 \quad u = 1$

$A = .22$ ft
$t = 240$ min $= .17$ day

$$T = \frac{Q}{4\pi A} \times W(u) = \frac{143{,}037}{4\pi \times .22} \times 1 = 51{,}739 \text{ ft}^3/\text{day}$$

$$= 387{,}006$$

$$S = \frac{4Tt}{r^2} \times u = \frac{4 \times 51{,}739 \times .17}{2500^2} = .0056$$

DELAYED YIELD

EARLY TIME MATCH PT. D $r/d = 1.0$ $W(u, r/d) = 1$ $u = 1$
LATE TIME MATCH PT. B $r/d = 1.0$ $W(u_y, r/d) = 1$ $u = 1$

EARLY TIME

$r/d = 1.0$ $A = .32$
$u = 1.0$ $t = 270$ min $= .1875$ days
$W(u_0) = 1$

$$T = \frac{Q}{4\pi A} \times W(u_0) = \frac{143037}{4\pi \times .32} \times 1 = 35{,}570 \text{ ft}^2/\text{day} = 266{,}066 \text{ gpd/ft}$$

$$S = \frac{4Tt}{r^2} \times u_0 = \frac{4 \times 35{,}570 \times .1875}{2500^2} \times 1 = .0043$$

LATE TIME MATCH PT B

$r/d = 1.0$ $A = .32$
$u_y =$ $t = 1000$ min $= .6944$ days
$W(u_y, r/d)$

SUBJECT FFH, INC PUMP TEST BY C. FEAST DATE 5/15/91
SHEET 3 OF 3
PROJECT NO. 30731684.A1

EHGC DELAYED YIELD CON'T

$$T_{(LATE)} = \frac{Q}{4\pi A} \times W(u_y) = \frac{143037}{4\pi .32} \times 1 = 35570 \text{ ft}^2/\text{day} = 266{,}066 \text{ gpd/ft}$$

$$S_y = \frac{4Tt}{r^2} \times u_y = \frac{4 \times 35570 \times .6944}{2500^2} \times 1 = .0158$$

$$Y = 1 + \frac{S_y}{S_e} = 1 + \frac{.0158}{.0043} = 4.67$$

$r = 2500$ ft, $r/D_1 = 1$ $\therefore$ $D_1 = 2500$

$$D_1 = \sqrt{\frac{T}{\alpha S_y}} \qquad \alpha = \frac{T}{S_y D_1^2} = \frac{35{,}570}{.0158 \times D_1^2} = .36$$

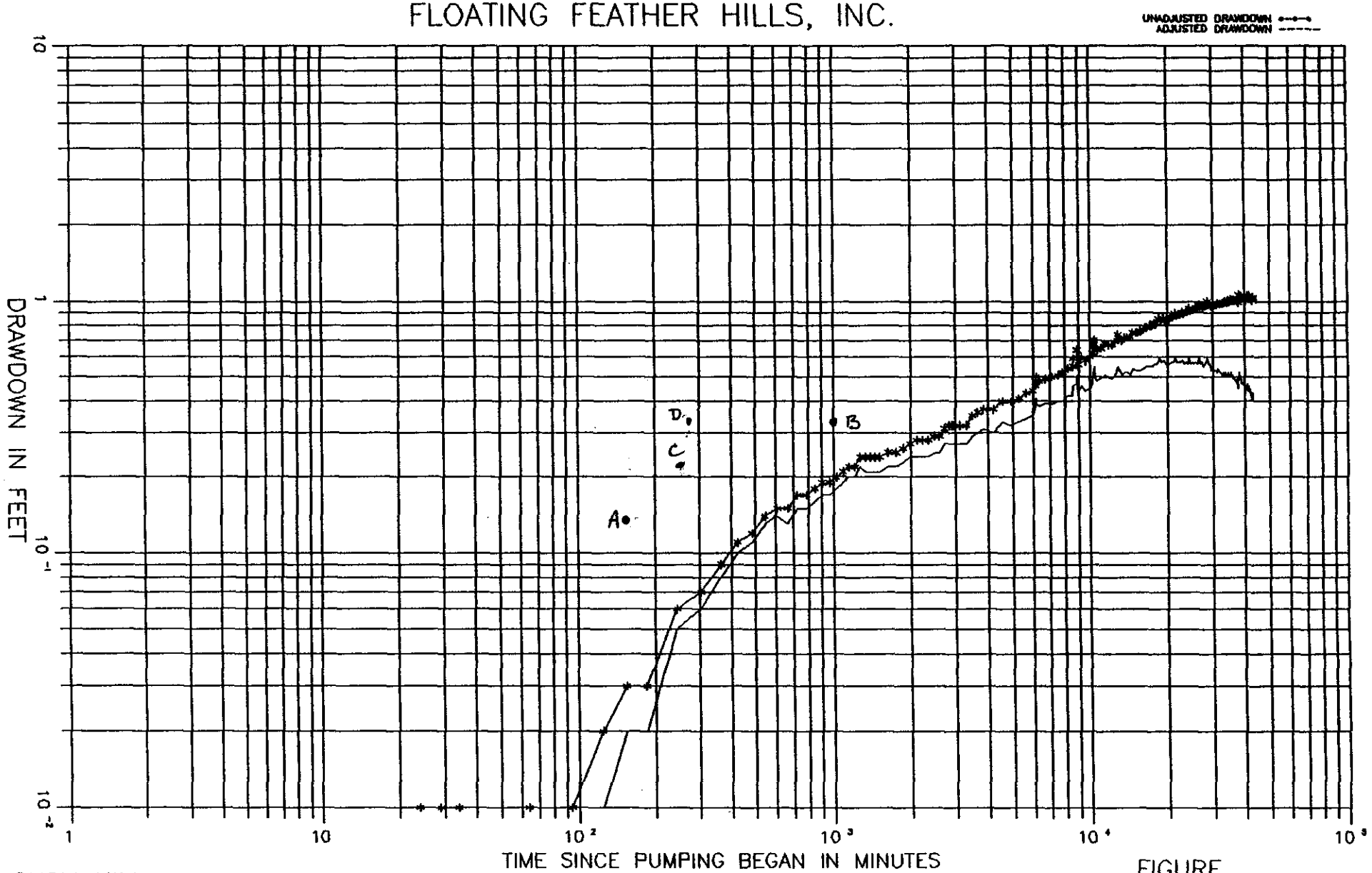
From fig. 33 K&R

$r/d = 1.0$ $\alpha t_{wt} = 4.5$

$\therefore$ $t_{wt} = 4.5/\alpha = 4.5/.36 = 12.5$ days before gravity drainage becomes negligible.

MAY 24, 1991

FLOATING FEATHER HILLS, INC.



CH2M HILL
B0131684.A1

FIGURE
EAGLE HILLS G.C.
TIME DRAWDOWN

SUBJECT FFH, INC. PUMP TEST BY C. FRANT DATE ~~5/15/91~~ 5/15/91
SHEET 1 OF 2
PROJECT NO. B01 31684.41

EHGC SL TIME DD

METHOD: CHOW

$SA' = .20$
$\Delta SA' = .45 - .20 = .25$
$t_{A'} = 1000 \text{ min} = \frac{1000}{1440} = .69 \text{ days}$ (early time)

$F(u) = \frac{SA'}{\Delta SA'} = \frac{.20}{.25} = .80$

$w(u) = 1.6$
$u = .13$

$Q = 743 \text{ gpm} = 143037 \text{ ft}^3/\text{day}$

$r = 2500 \text{ ft}$

$KD = \frac{Q}{4\pi SA'} w(u) = \frac{143,037}{4 \times \pi \times .20} \times 1.6 = 91,060 \text{ ft}^2/\text{day}$

$= 681,132 \text{ gpd/ft}$

$S = \frac{4 (u) KD}{r^2} \times t_{A'} = \frac{4 \times .13 \times 91,060}{2500^2} \times .69 = .0052$

$SA'' = .62$
$\Delta SA'' = 1.40 - .62 = .78$
$t_{A''} = 10000 \text{ min} = 6.94 \text{ days}$ (late time)

$F(u) = \frac{SA''}{\Delta SA''} = \frac{.62}{.78} = .79$

$w(u) = 1.6$
$u = .13$

SUBJECT FFH, INC PUMP TEST BY L. KEAST DATE 2/15/11

SHEET 2 OF 2

PROJECT NO. 130 31684.41

EHGC SL TIME DD CONT'D

$$KD = \frac{Q}{4\pi SA''} w(u) = \frac{143{,}037}{4\pi \cdot .62} \times 1.6 \equiv 29{,}374 \text{ ft}^2/\text{day}$$

$$= 219{,}720 \text{ gpd/ft}$$

$$S = \frac{4(u)KD}{r^2} \times t_{A''} = \frac{4 \times .13 \times 29{,}374}{2500^2} \times 6.94 = .017$$

CHECK TIME FOR $U \leq .02$ for validity of JACOBS straight line method. Walton p 212

$$t_{SL} = \frac{1.35 \times 10^5 r^2 S}{T} \quad \text{(gal-ft-day units)}$$

$$\text{for A' } t_{SL} = \frac{1.35 \times 10^5 r^2 S}{T} = \frac{1.35 \times 10^5 \times 2500^2 \times .0052}{681{,}132} = 6{,}441 \text{ min}$$

$$= 4.47 \text{ days}$$

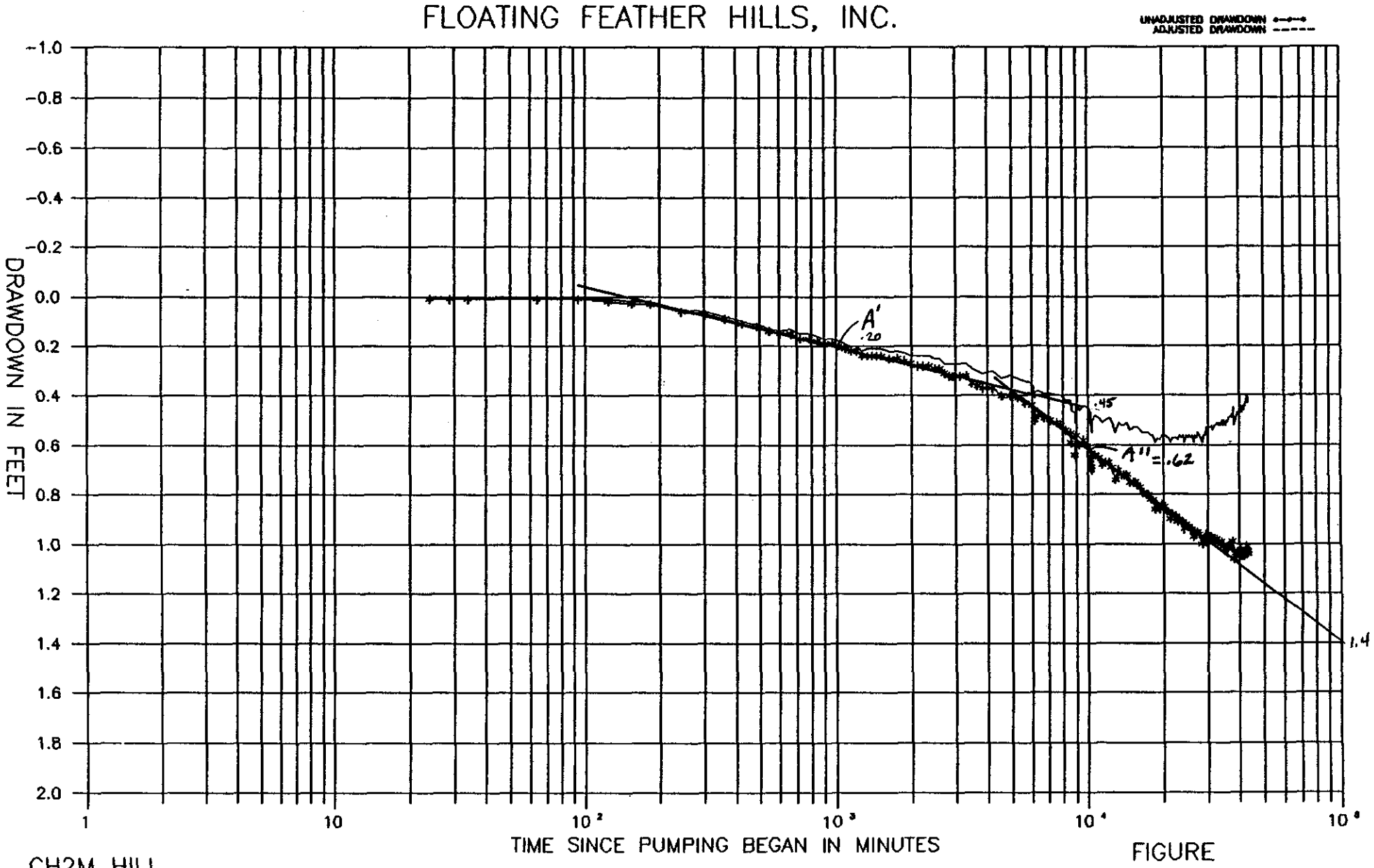
$\therefore$ $T_{A'}$ is not valid

$$\text{for A'' } T_{SL} = \frac{1.35 \times 10^5 \times 2500^2 \times .017}{219{,}720} = 65{,}282 \text{ minutes}$$

$$= 45.3 \text{ days}$$

$\therefore$ $T_{A''}$ is not valid

MAY 24, 1991



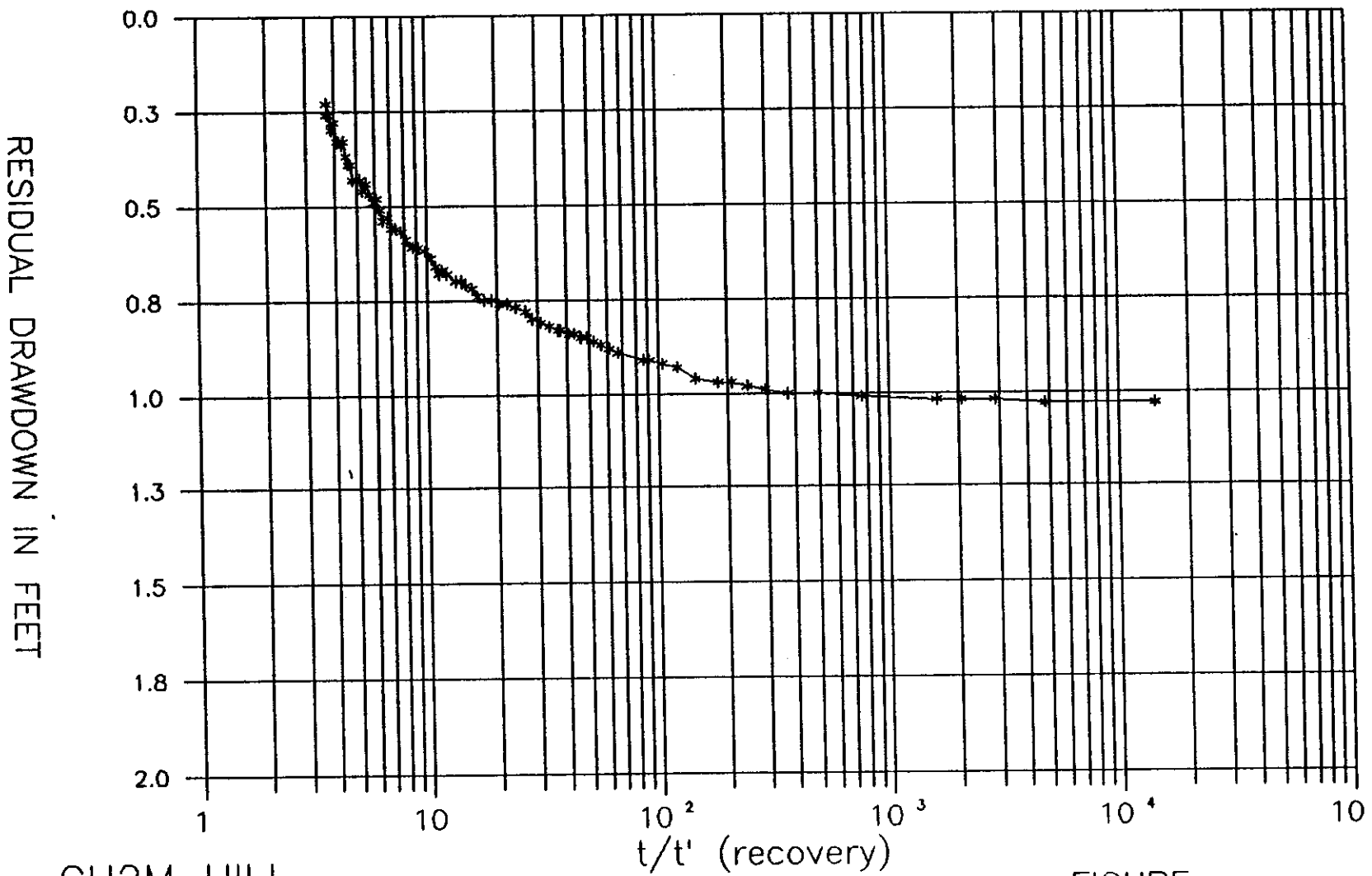
CH2M HILL
B0131684.A1

FIGURE
EAGLE HILLS G.C.
TIME DRAWDOWN

No fit

MAY 15, 1991

FLOATING FEATHER HILLS, INC.



CH2M HILL

B0131684.A1

FIGURE

EAGLE HILLS GOLF COURSE
RECOVERY

Appendix E-5
HORMACHEA WELL

SUBJECT FFH, INC. PUMP TEST BY C. FEAST DATE 5/13/91

SHEET 1 OF 2

PROJECT NO. 001 31684.A1

HORMACHEA SL DRAWDOWN

METHOD CHOW

Two slightly different straight line segments

other interferences produce small irregularities in plot

A' $s_{A'} = .25$

$\Delta s_{A'} = .42 - .15 = .27$

$t_{A'} = 2000 \text{ min} = 1.39 \text{ days}$

$Q = 143{,}037 \text{ ft}^3/\text{day}$

$r = 3700 \text{ ft}$

$$F(u) = \frac{s_{A'}}{\Delta s_{A'}} = \frac{.25}{.27} = .93$$

$W(u) = 1.9$

$u = .09$

$$T = \frac{Q}{4\pi s_A} \times W(u) = \frac{143{,}037}{4\pi \cdot .27} \times 1.9 = 42{,}158 \text{ ft}^2/\text{day}$$

$= 315{,}339 \text{ gpd/ft}$

$$S = \frac{4 T t_{A'}}{r^2}(u) = \frac{4 \times 42{,}158 \times 1.39}{3700^2} = .017$$

A'' $s_{A''} = .77$

$\Delta s_{A''} = 1.23 - .58 = .65$

$t_{A''} = 20{,}000 \text{ min} = 13.9 \text{ days}$

$$F(u) = \frac{s_{A''}}{\Delta s_{A''}} = \frac{.77}{.65} = 1.18$$

$W(u) = 2.6$

$u = .04$

$$T = \frac{Q}{4\pi s_{A''}}(W_u) = \frac{143037}{4\pi \cdot .77} \times 2.6 = 38{,}434 \text{ ft}^2/\text{day}$$

$= 287{,}490 \text{ gpd/ft}$

$$S = \frac{4 T t_{A''}}{r^2} \times u = \frac{4 \times 38{,}434 \times 13.9}{3700^2} \times .04 = .0062$$

SUBJECT FFH, INC PUMP TEST BY C. FROST DATE 5/15/91

SHEET 2 OF 2

PROJECT NO. Bal 31684.41

HORMACHEA SL DD CONT'D

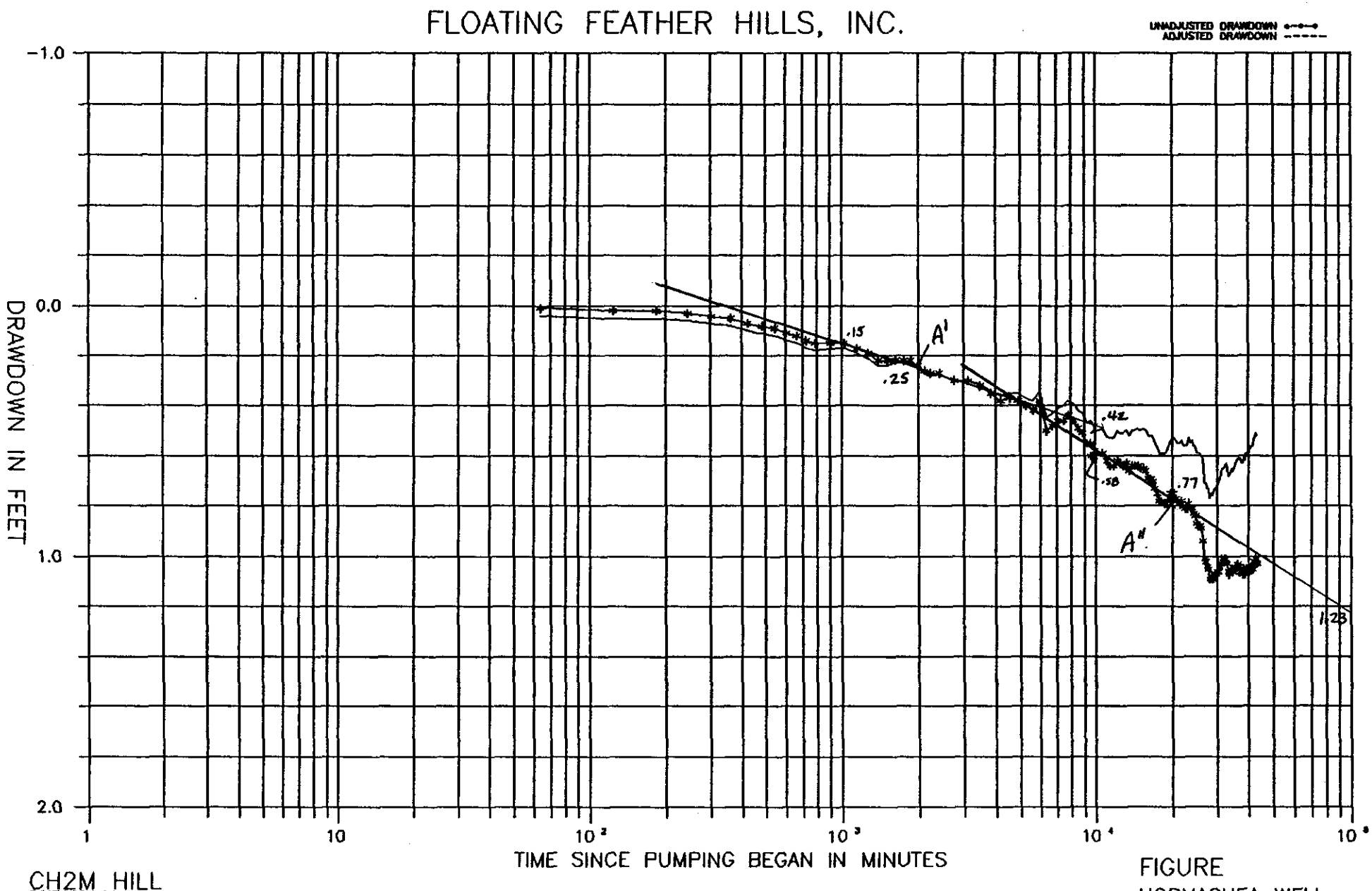
Check validity of straight line solutions by Walton p212

$$t_{SL} = \frac{1.35 \times 10^5 r^2 \times S}{T}$$

$$t_{SL\,A''} = \frac{1.35 \times 10^5 \times 3700^2 \times .06}{110,573} = > 1 \text{ million minutes}$$

∴ JACOB straight line method invalid

MAY 24, 1991



CH2M HILL
B0131684.A1

FIGURE
HORMACHEA WELL
TIME DRAWDOWN

SUBJECT EFH, ENC PUMP TEST BY C. FEAST DATE 5/15/91

SHEET 1 OF 2

PROJECT NO. B01 31684.41

HORMACHEA WELL LL DRAWDOWN

This curve has two NON EQUILIBRIUM segments

Early time 0 – 8000 ± min — MATCH PT. A

Late time 8000 ± – EOT @ ~ 45,000 min

EARLY TIME is a better match suggesting interferences from other wells during late time

EARLY TIME

A) $u = 1$ $Q = 143,037$ ft³/day
$w(u) = 1$ $r = 3700$ ft
$A = .16$ ft
$t = 240$ min = .17 days

$$T = \frac{Q}{4\pi A} w(u) = \frac{143,037}{4\pi .16} \times 1 = 71,141 \text{ ft}^2/\text{day}$$
$$= 532,135 \text{ gpd/ft}$$

$$S = \frac{4Tt}{r^2} \times u = \frac{4 \times 71,141 \times .17}{3700^2} = .0035$$

LATE TIME

B) $u = 1$ $Q = 143,037$ ft³/day
$w(u) = 1$ $r = 3700$ ft
$A = .24$
$t = 600$ min = 1.42 days

$$T = \frac{Q}{4\pi S} w(u) = \frac{143,037}{4\pi .24} \times 1 = 47,427 \text{ ft}^2/\text{day}$$
$$= 354,755 \text{ gpd/ft}$$

$$S = \frac{4Tt}{r^2} u = \frac{4 \times 47,427 \times 1.42}{3700^2} \times 1 = .0058$$

HORMACHEA CONT'D

MATCH PT C

ADJUSTED WATER LEVEL

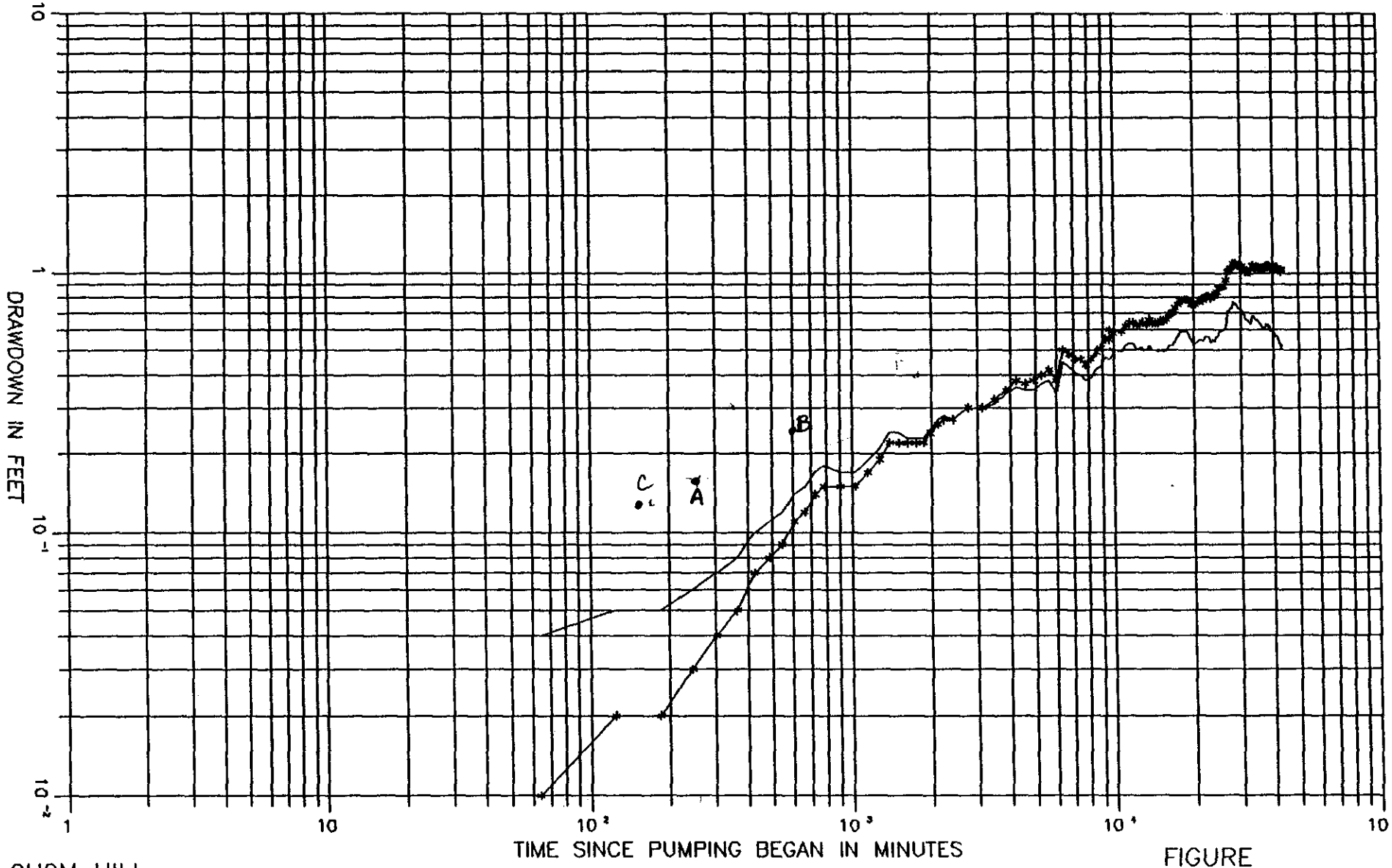
$W(u) = 1$
$(u) = 1$
$A = .13$
$t = 150 \text{ min} = .104 \text{ days}$

$$T = \frac{Q}{4\pi\Delta} \times W(u) = \frac{143037}{4\pi \cdot .13} \times 1 = 87{,}558 \text{ ft}^2/\text{day}$$
$$= 654{,}933 \text{ gpd/ft}$$

$$S = \frac{4Tt}{r^2} \times (u) = \frac{4 \times 87{,}558 \times .104}{3700^2} = .0027$$

MAY 24, 1991

FLOATING FEATHER HILLS, INC.

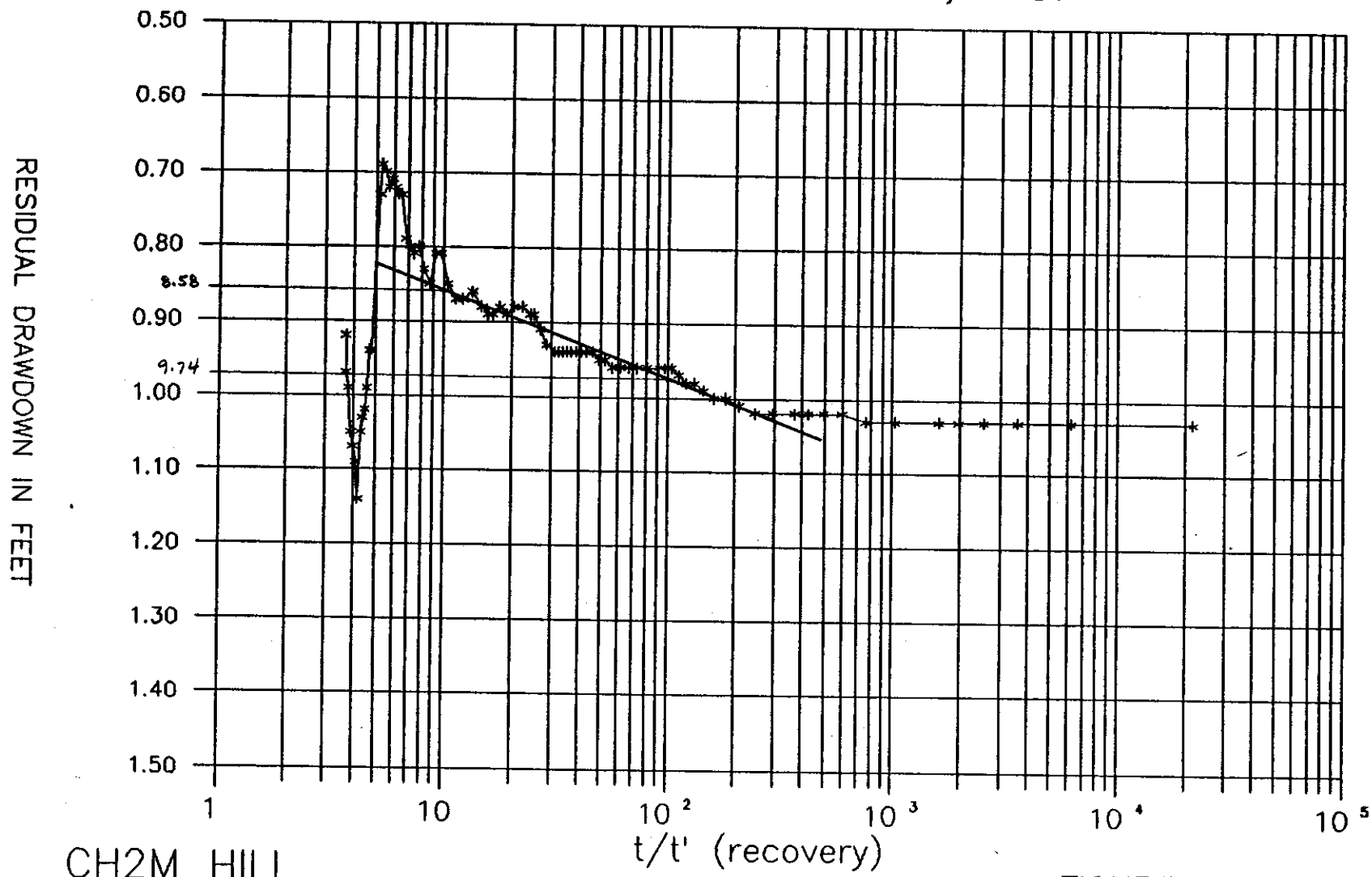


CH2M HILL
B0131684.A1

FIGURE
HORMACHEA WELL
TIME DRAWDOWN

MAY 15, 1991

FLOATING FEATHER HILLS, INC.



CH2M HILL

B0I31684.A1

FIGURE
HORMACHEA WELL
RECOVERY

$T = \frac{264\,Q}{\Delta s} = \frac{264\,(743)}{9.74 - 8.58} = \frac{196,152}{1.16} = 169,096$ gpd/ft

Appendix F
DRAWDOWN SIMULATION OUTPUT FILES

FFH61a, T=100k, S=.02, Q=278 gpm, t=6 months

** PROGRAM AND AQUIFER PARAMETERS **
Water Table Solution

NO. OF WELLS = 2
NO. OF TIMES = 1
TRANSMISSIVITY = 100000. GPD/FT
STORAGE COEFFICIENT = .20E-01
AQUIFER THICKNESS = 330. FEET
NO. OF NODES IN THE X- OR EAST DIRECTION = 33
NO. OF NODES IN THE Y- OR SOUTH DIRECTION = 29
NODE SPACING = 500. FEET
X-GRID ORIGIN = -8000. FEET
Y-GRID ORIGIN = -7000. FEET

*** WELL PARAMETERS ***

WELL NAME	X-COORD (FT)	Y-COORD (FT)	Q (GPM)	RADIUS (FT)	EFF (FRACT.)	TIME ON (DAYS)
W1	0.	0.	139.	1.0	.33	.00
W2	0.	1800.	139.	1.0	.33	.00

TIMES AT WHICH DRAWDOWNS ARE TO BE CALCULATED AND PRINTED IN DAYS

183.0

SIMULATED DRAWDOWNS AT 183.0 DAYS

WELL NAME	WELL DRAWDOWN	WELL DRAWDOWN @ EFF	TOTAL DRAWDOWN @ EFF + INTERFERENCE
W1	3.11	9.42	10.14
W2	3.11	9.42	10.14

FFH62, T=100k, S=.02, Q=1000 gpm, t=6 MONTHS TO 30 YEARS

** PROGRAM AND AQUIFER PARAMETERS **
Water Table Solution

NO. OF WELLS = 2
NO. OF TIMES = 5
TRANSMISSIVITY = 100000. GPD/FT
STORAGE COEFFICIENT = 0.20E-01
AQUIFER THICKNESS = 330. FEET

*** WELL PARAMETERS ***

WELL NAME	X-COORD (FT)	Y-COORD (FT)	Q (GPM)	RADIUS (FT)	EFF (FRACT.)	TIME ON (DAYS)
W1	0.	0.	500.	1.0	.33	.00
W2	0.	1800.	500.	1.0	.33	.00

TIMES AT WHICH DRAWDOWNS ARE TO BE CALCULATED AND PRINTED IN DAYS

183.0
365.0
1825.0
5475.0
10950.0

SIMULATED DRAWDOWNS AT 183.0 DAYS

WELL NAME	WELL DRAWDOWN	WELL DRAWDOWN @ EFF	TOTAL DRAWDOWN @ EFF + INTERFERENCE
W1	11.329	34.329	36.979
W2	11.329	34.329	36.979

SIMULATED DRAWDOWNS AT 365.0 DAYS

WELL NAME	WELL DRAWDOWN	WELL DRAWDOWN @ EFF	TOTAL DRAWDOWN @ EFF + INTERFERENCE
W1	11.739	35.571	38.636
W2	11.739	35.571	38.636

SIMULATED DRAWDOWNS AT 1825.0 DAYS

WELL NAME	WELL DRAWDOWN	WELL DRAWDOWN @ EFF	TOTAL DRAWDOWN @ EFF + INTERFERENCE
W1	12.696	38.473	42.516
W2	12.696	38.473	42.516

SIMULATED DRAWDOWNS AT 5475.0 DAYS

WELL NAME	WELL DRAWDOWN	WELL DRAWDOWN @ EFF	TOTAL DRAWDOWN @ EFF + INTERFERENCE
W1	13.352	40.459	45.175
W2	13.352	40.459	45.175

SIMULATED DRAWDOWNS AT 10950.0 DAYS

WELL NAME	WELL DRAWDOWN	WELL DRAWDOWN @ EFF	TOTAL DRAWDOWN @ EFF + INTERFERENCE
W1	13.766	41.714	46.858
W2	13.766	41.714	46.858

FFH70, T=174k, S=.02, Q=1000 gpm, t=6 MONTHS TO 30 YEARS

** PROGRAM AND AQUIFER PARAMETERS **
Water Table Solution

NO. OF WELLS = 2
NO. OF TIMES = 5
TRANSMISSIVITY = 174000. GPD/FT
STORAGE COEFFICIENT = .20E-01
AQUIFER THICKNESS = 330. FEET

*** WELL PARAMETERS ***

WELL NAME	X-COORD (FT)	Y-COORD (FT)	Q (GPM)	RADIUS (FT)	EFF (FRACT.)	TIME ON (DAYS)
W1	0.	0.	500.	1.0	.33	.00
W2	0.	1800.	500.	1.0	.33	.00

TIMES AT WHICH DRAWDOWNS ARE TO BE CALCULATED AND PRINTED IN DAYS

183.0
365.0
1825.0
5475.0
10950.0

SIMULATED DRAWDOWNS AT 183.0 DAYS

WELL NAME	WELL DRAWDOWN	WELL DRAWDOWN @ EFF	TOTAL DRAWDOWN @ EFF + INTERFERENCE
W1	6.648	20.146	21.830
W2	6.648	20.146	21.830

SIMULATED DRAWDOWNS AT 365.0 DAYS

WELL NAME	WELL DRAWDOWN	WELL DRAWDOWN @ EFF	TOTAL DRAWDOWN @ EFF + INTERFERENCE
W1	6.880	20.850	22.768
W2	6.880	20.850	22.768

SIMULATED DRAWDOWNS AT 1825.0 DAYS

WELL NAME	WELL DRAWDOWN	WELL DRAWDOWN @ EFF	TOTAL DRAWDOWN @ EFF + INTERFERENCE
W1	7.422	22.491	24.958
W2	7.422	22.491	24.958

SIMULATED DRAWDOWNS AT 5475.0 DAYS

WELL NAME	WELL DRAWDOWN	WELL DRAWDOWN @ EFF	TOTAL DRAWDOWN @ EFF + INTERFERENCE
W1	7.792	23.614	26.457
W2	7.792	23.614	26.457

SIMULATED DRAWDOWNS AT 10950.0 DAYS

WELL NAME	WELL DRAWDOWN	WELL DRAWDOWN @ EFF	TOTAL DRAWDOWN @ EFF + INTERFERENCE
W1	8.026	24.322	27.404
W2	8.026	24.322	27.404

FFH71a, T=174k, S=.02, Q=1000 gpm, t=6 months

** PROGRAM AND AQUIFER PARAMETERS **
Water Table Solution

NO. OF WELLS = 7
NO. OF TIMES = 1
TRANSMISSIVITY = 174000. GPD/FT
STORAGE COEFFICIENT = .20E-01
AQUIFER THICKNESS = 330. FEET
NO. OF NODES IN THE X- OR EAST DIRECTION = 33
NO. OF NODES IN THE Y- OR SOUTH DIRECTION = 29
NODE SPACING = 500. FEET
X-GRID ORIGIN = -8000. FEET
Y-GRID ORIGIN = -7000. FEET

*** WELL PARAMETERS ***

WELL NAME	X-COORD (FT)	Y-COORD (FT)	Q (GPM)	RADIUS (FT)	EFF (FRACT.)	TIME ON (DAYS)
W1	0.	0.	500.	1.0	.33	.00
W2	0.	1800.	500.	1.0	.33	.00
R1	2200.	-2300.	-50.	1.0	1.00	.00
R2	150.	-1600.	-50.	1.0	1.00	.00
R3	-1100.	-200.	-50.	1.0	1.00	.00
R4	-800.	1600.	-50.	1.0	1.00	.00
R5	600.	2750.	-50.	1.0	1.00	.00

TIMES AT WHICH DRAWDOWNS ARE TO BE CALCULATED AND PRINTED IN DAYS

183.0

SIMULATED DRAWDOWNS AT 183.0 DAYS

WELL NAME	WELL DRAWDOWN	WELL DRAWDOWN @ EFF	TOTAL DRAWDOWN @ EFF + INTERFERENCE
W1	6.648	20.146	21.015
W2	6.648	20.146	21.025
R1	-.657	-.657	1.185
R2	-.657	-.657	1.751
R3	-.657	-.657	2.236
R4	-.657	-.657	2.610
R5	-.657	-.657	2.169

FFH72a, T=100k, S=.02, Q=1000 gpm, t=6 months

** PROGRAM AND AQUIFER PARAMETERS **
Water Table Solution

NO. OF WELLS = 7
NO. OF TIMES = 1
TRANSMISSIVITY = 100000. GPD/FT
STORAGE COEFFICIENT = .20E-01
AQUIFER THICKNESS = 330. FEET
NO. OF NODES IN THE X- OR EAST DIRECTION = 33
NO. OF NODES IN THE Y- OR SOUTH DIRECTION = 29
NODE SPACING = 500. FEET
X-GRID ORIGIN = -8000. FEET
Y-GRID ORIGIN = -7000. FEET

*** WELL PARAMETERS ***

WELL NAME	X-COORD (FT)	Y-COORD (FT)	Q (GPD)	RADIUS (FT)	EFF (FRACT.)	TIME ON (DAYS)
W1	0.	0.	500.	1.0	.33	.00
W2	0.	1800.	500.	1.0	.33	.00
R1	2200.	-2300.	-50.	1.0	1.00	.00
R2	150.	-1600.	-50.	1.0	1.00	.00
R3	-1100.	-200.	-50.	1.0	1.00	.00
R4	-800.	1600.	-50.	1.0	1.00	.00
R5	600.	2750.	-50.	1.0	1.00	.00

TIMES AT WHICH DRAWDOWNS ARE TO BE CALCULATED AND PRINTED IN DAYS

183.0

SIMULATED DRAWDOWNS AT 183.0 DAYS

WELL NAME	WELL DRAWDOWN	WELL DRAWDOWN @ EFF	TOTAL DRAWDOWN @ EFF + INTERFERENCE
W1	11.329	34.329	35.700
W2	11.329	34.329	35.716
R1	-1.112	-1.112	1.597
R2	-1.112	-1.112	2.578
R3	-1.112	-1.112	3.421
R4	-1.112	-1.112	4.072
R5	-1.112	-1.112	3.304

CITY OF EAGLE
Additional P/D per Amendment
Additional P/D per Amendment
Proposed P/D Floating Feather Hills Inc
E. FLOATING FEATHER RD.
N. HORSESHOE BEND ROAD
N. HORSESHOE BEND RD.
NOTE: BOISE NUMBER GRID USED FOR ADDRESSES ALONG BOTH SIDES OF HORSESHOE BEND RD.
N. BUCHANAN DR.
N. ASH ST.
E. MISSION CT.
N. 1st ST.
E. 1st ST.
S. 1st
S. 2nd ST.
N. 2nd ST.
E. CEDAR RIDGE ST.
N. 3rd ST.
E. AMANITA DR.
STIERMAN DR.
N. YELLOW PINE PL.
SPRING HILL DR.
E. NORTHVIEW ST.
BEACH WOOD DR.
RANCH DR.
CEDA ST.
N. DOGWOOD PL.
N. FRUITWOOD
E. MANGO DR.
E. PEBBLE BEACH CT.
N. VICEROY AVE.
E. MONARCH ST.
N. PALMETTO DR.
N. PALMETTO AVE.
EAGLE HILLS ELEM.
E. FARRINGTON DR.
CALABASAS ST.
EAGLE ST.
PEBBLE
N. SPYGLASS WY.
E. RIO PINAR LN.
BEACH WY.
E. CERRAMAR CT.
E. MEDINA CT.
WINGED FOOT PL.
N. EDGEWOOD LANE
EAGLE FEATHER SUB.
FISHER ACRES SUB.
LOS LUCEROS ACRES SUB.
ROCKET BAR SUB.
EVANS ACRES SUB.
EAGLE VIEW SUB
GOLF COURSE
SEE DETAIL E-10
SEE DETAIL E-11
FARMERS UNION CANAL
DRY CREEK
GRAVEL PIT
SYRINGA GARDENS CEMETERY
HIDDEN HOLLOW
GOOSE CREEK
MARYGLEN SUB. NO. 1
MARYGLEN SUB. NO. 2
(DST LN.)



RMH

COMPANY

1991

RICHARD M. HORMAECHEA
Cattle/Real Estate Development

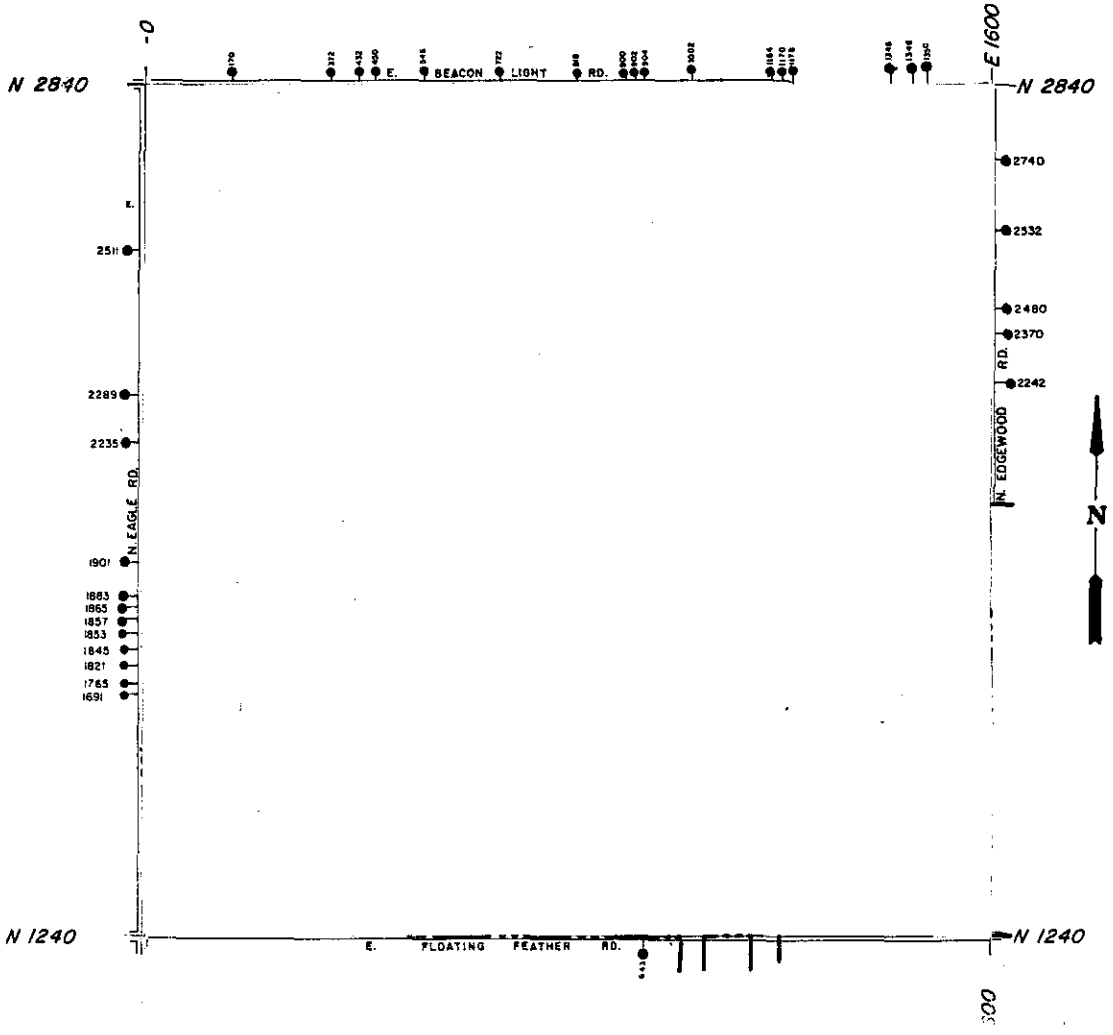
Telephone (208) 336-2200 / FAX 336-2476
1101 W. River Street
P.O. Box 6887
Boise, Idaho 83707

THOMAS T. WRIGHT COMPANY
Real Estate

OCT 0 1 1991

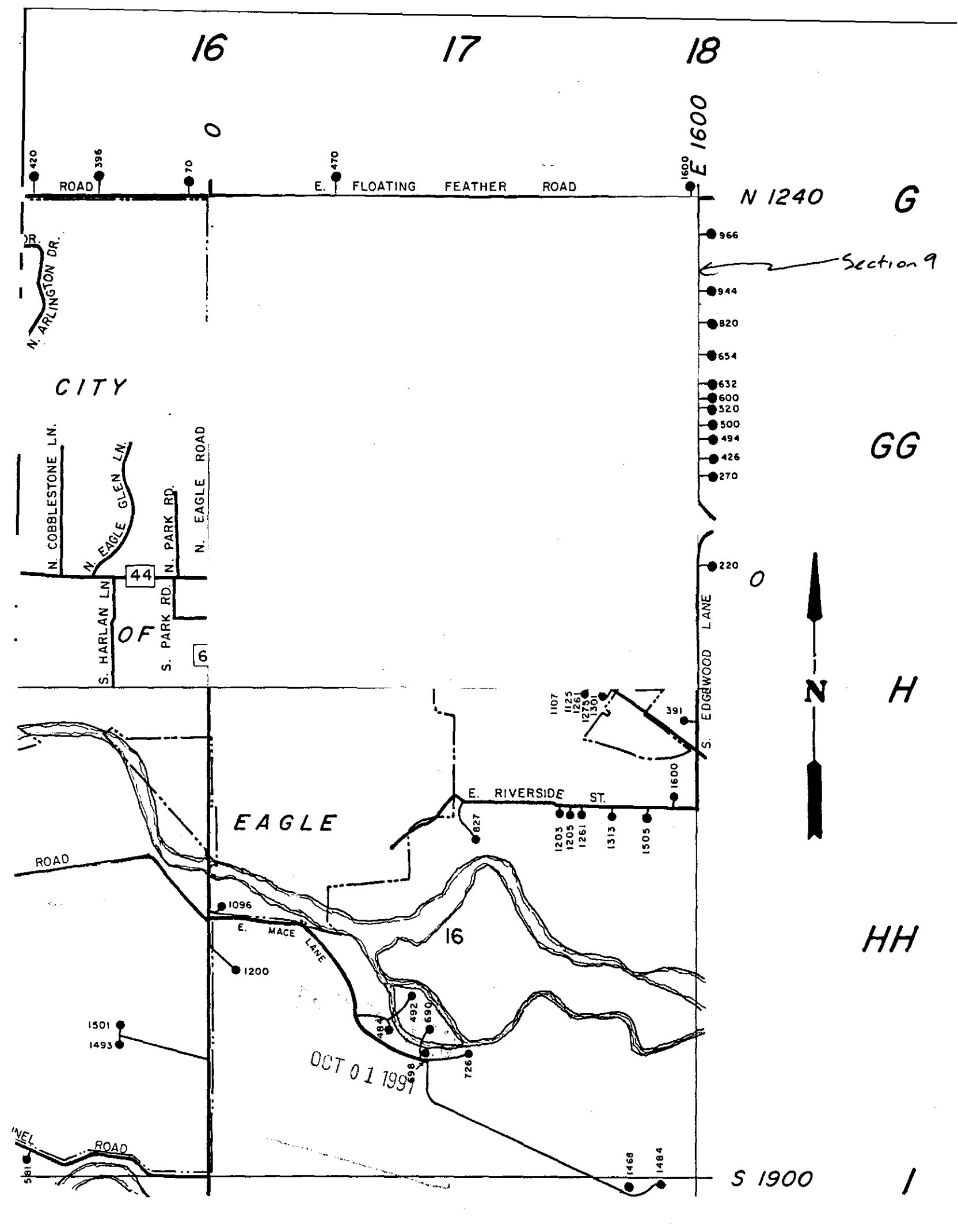
Thomas T. Wright
CCIM, SIOR

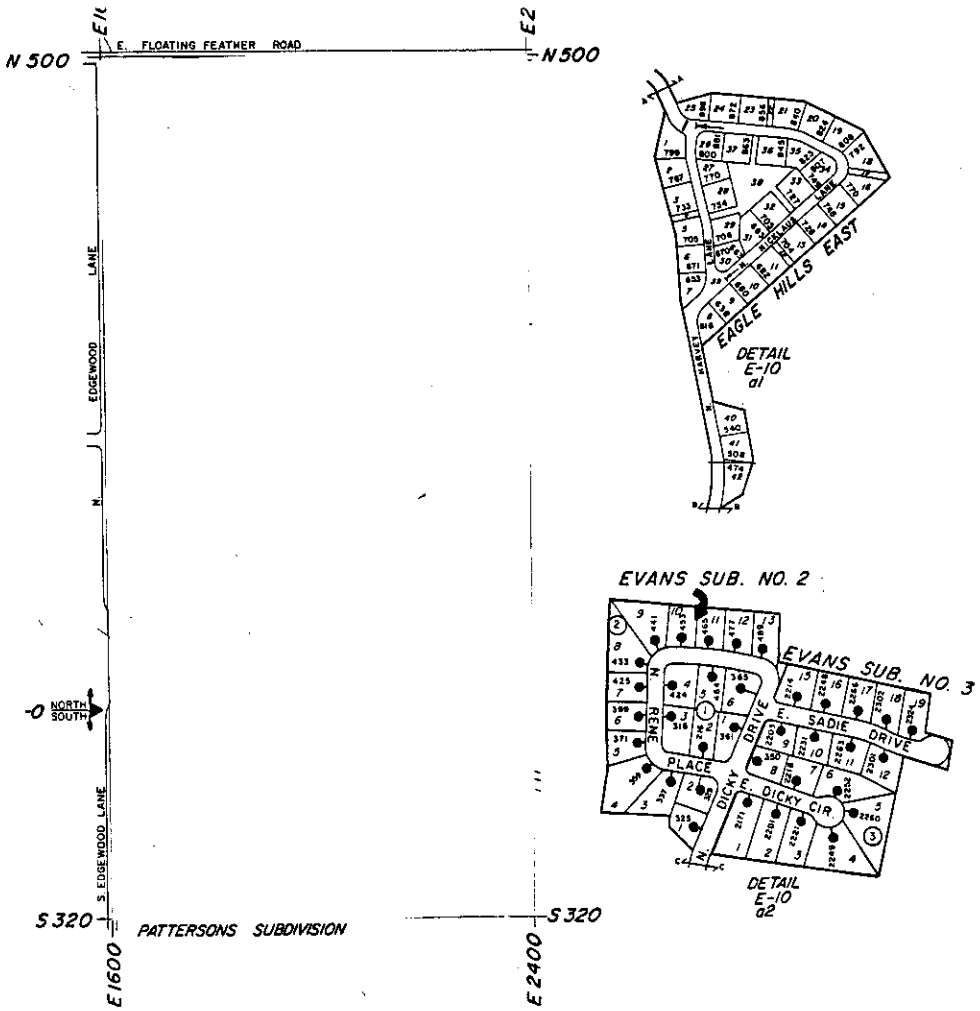
P.O. Box 2727, 1412 West Idaho, Suite 207
Boise, Idaho 83701 (208) 343-4000 FAX (208) 344-7550



Section H.

OCT 0 1 1991

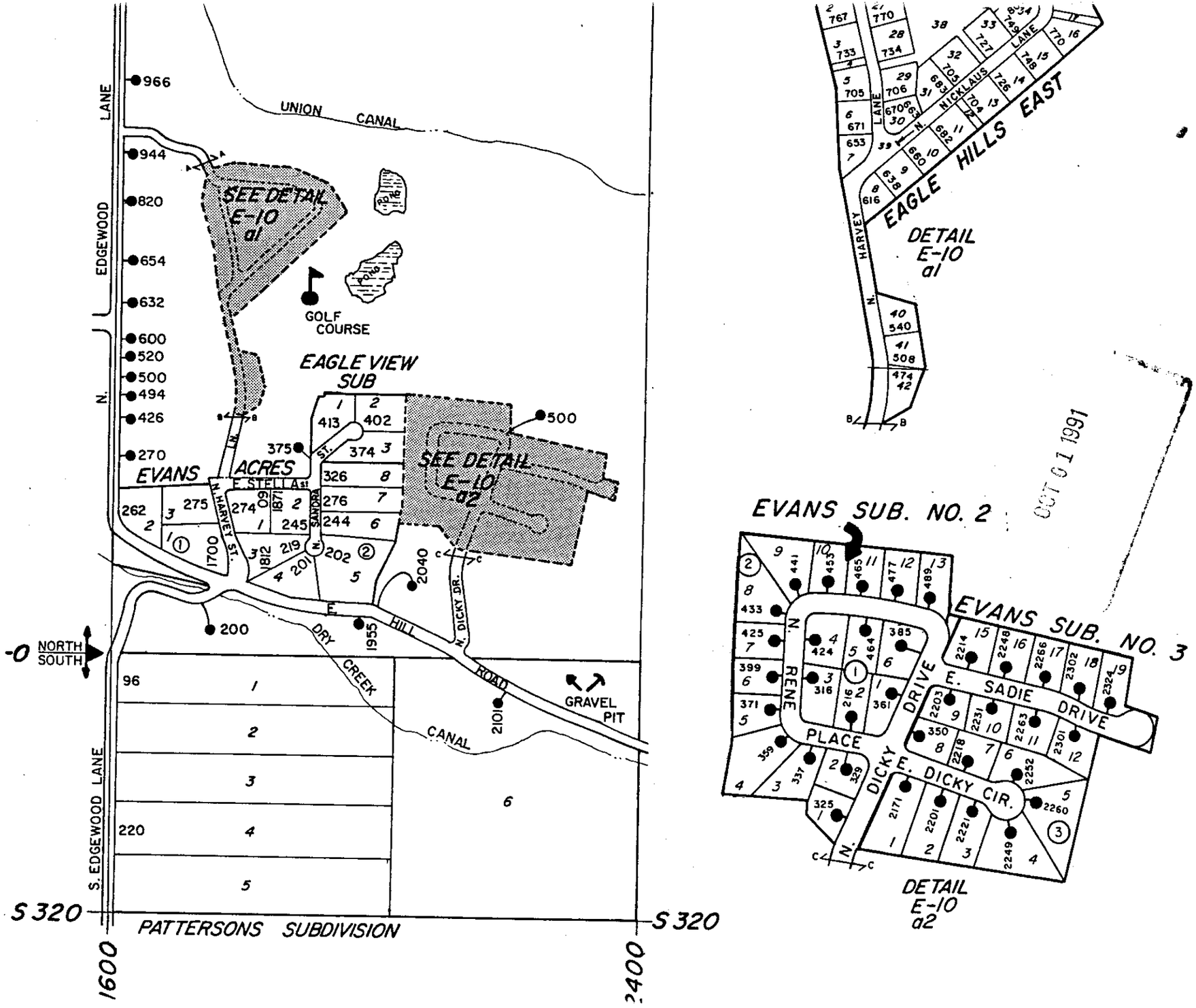

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17
18
E 1600
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I
ROAD
E. FLOATING FEATHER ROAD
420
396
70
470
1600
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944
820
654
632
600
520
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494
426
270
Section 9
N. ARLINGTON DR.
CITY
OF
EAGLE
N. COBBLESTONE LN.
N. EAGLE GLEN LN.
N. PARK RD.
N. EAGLE ROAD
44
S. HARLAN LN
S. PARK RD.
6
S. EDGEWOOD LANE
220
391
1107
1125
1261
1275
1301
E. RIVERSIDE ST.
827
1203
1205
1261
1313
1505
1600
1096
E. MACE LANE
1200
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OCT 01 1991
1468
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E1
E2
N 500
E. FLOATING FEATHER ROAD
N 500
EDGEWOOD LANE
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NORTH
SOUTH
S EDGEWOOD LANE
S 320
PATTERSONS SUBDIVISION
S 320
E 1600
E 2400
EAGLE HILLS EAST
DETAIL
E-10
a1
EVANS SUB. NO. 2
EVANS SUB. NO. 3
RENE
PLACE
DICKY
DRIVE
SADIE
DRIVE
DICKY CIR.
DETAIL
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a2
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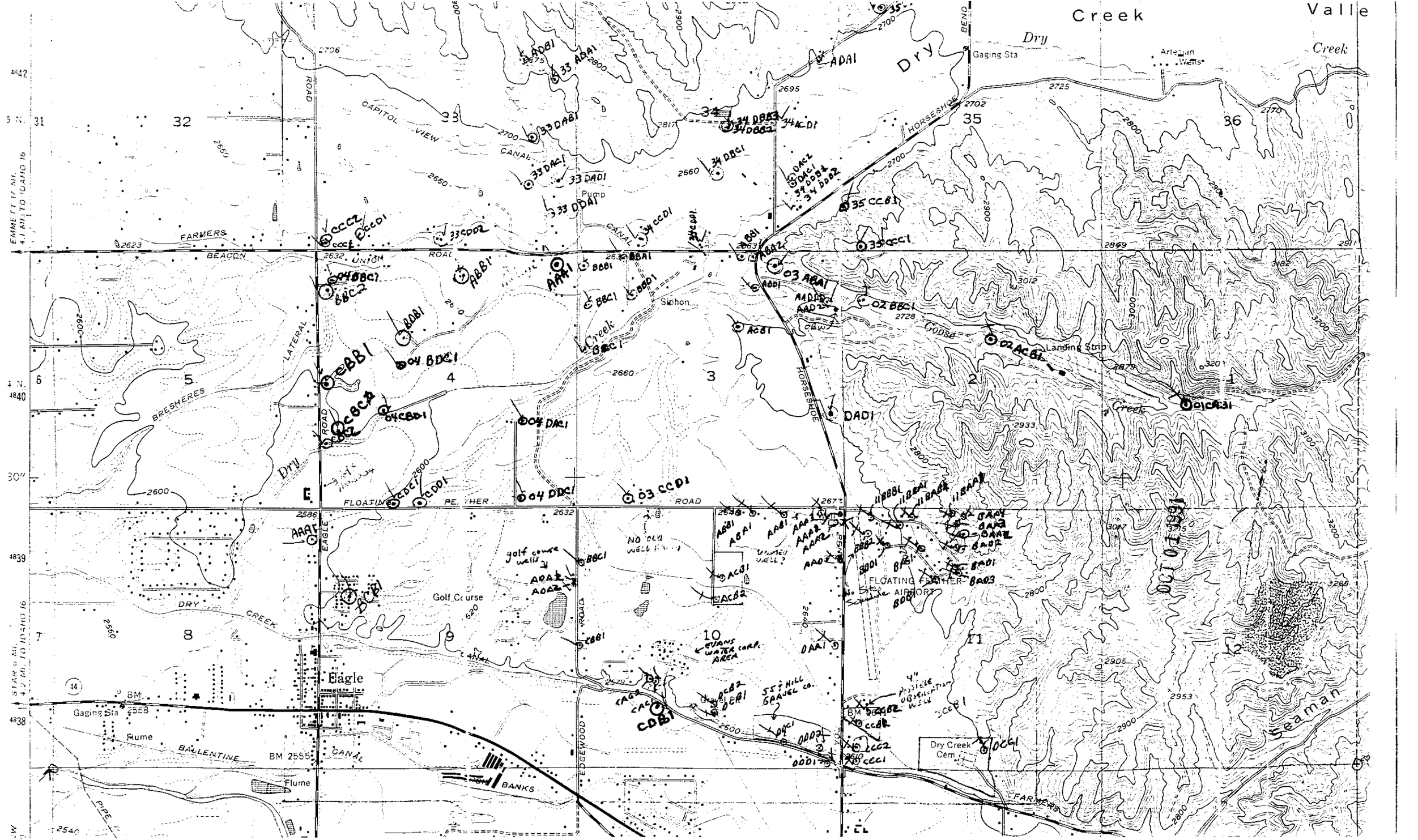
OCT 0 1 1991

N
BOISE NUMBERS
W 6800
W 10600
E 3200
BOISE NUMBERS
0-
EAGLE NUMBERS
W 3200
EAGLE
SEAMAN GULCH RD.
GARY LANE
BOGART LN.
HORSESHOE BEND RD.
GOOSE CREEK
UNION HILL CANAL RD.
FARMERS
BOISE RIVER
FLOATING FEATHER RD.
DRY CREEK
BEACON LIGHT
BALLANTINE RD.
EAGLE RD.
EAGLE
1
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EAGLE NUMBERS
IDIAN NUMBERS
N 2840
0-
S 2000
N 7600

OCT 0 1 1991

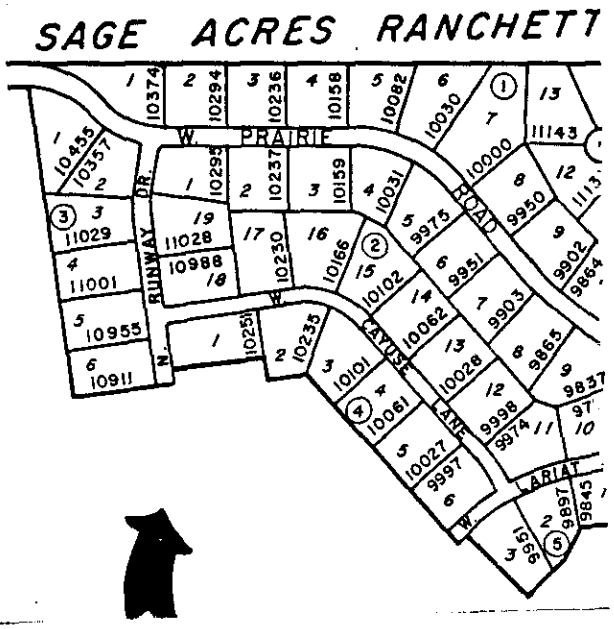

966
944
820
654
632
600
520
500
494
426
270
LANE
EDGEWOOD
N.
UNION CANAL
SEE DETAIL E-10 a1
GOLF COURSE
EAGLE VIEW SUB
EVANS ACRES
E. STELLA ST.
N. HARVEY ST.
SANDRA ST.
1700
1812
1871
2040
N. DICKY DR.
E. HILL ROAD
1955
2101
200
DRY CREEK
CANAL
GRAVEL PIT
NORTH
SOUTH
S. EDGEWOOD LANE
S 320
PATTERSONS SUBDIVISION
1600
2400
SEE DETAIL E-10 a2
EAGLE HILLS EAST
HARVEY
N. NICKLAUS LANE
DETAIL E-10 a1
EVANS SUB. NO. 2
EVANS SUB. NO. 3
N. RENE PLACE
E. SADIE DRIVE
E. DICKY CIR.
DETAIL E-10 a2

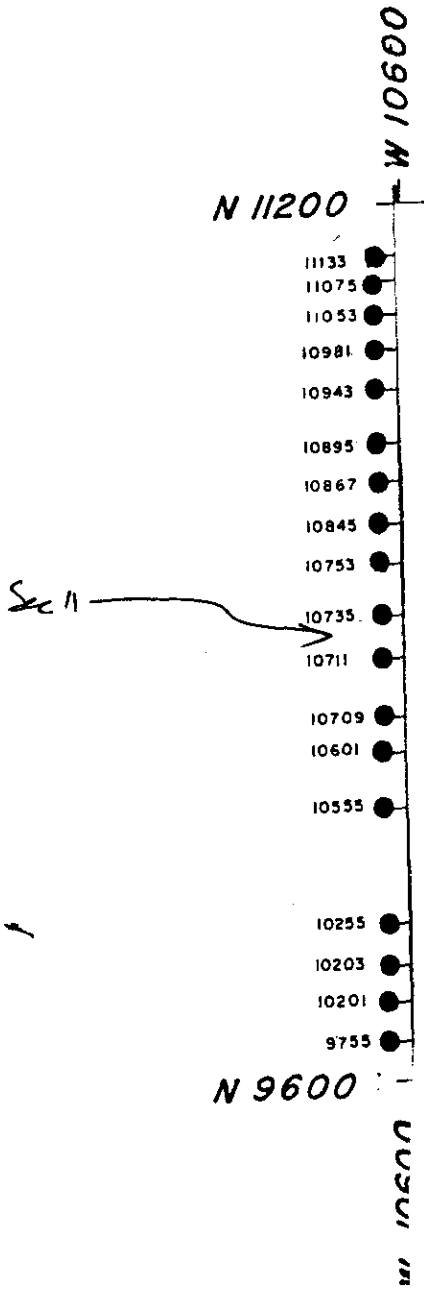
OCT 01 1991


Creek
Valle
Dry
Gaging Sta
Artesian Wells
Creek
BEND
HORSESHOE
CAPITOL VIEW CANAL
FARMERS
BEACON
UNION
ROAD
Pump
Siphon
LATERAL
BRESHERES
Dry Creek
FLOATING FEATHER ROAD
EAGLE ROAD
DRY CREEK
Golf Course
golf course wells
NO OLD WELL
Eagle
Gaging Sta 2568
Flume
BALLENTINE CANAL
BM 2555
BANKS
PIPE
EDGEWOOD ROAD
Evans Water Corp. Area
55 Hill Gravel Co.
Goose Creek
Landing Strip
FLOATING FEATHER AIRPORT
No Sprinkler
4" possible observation well
Dry Creek Cem.
Seaman
EMMETT 17 MI. 4.1 MI. TO IDAHO 16
STAR 6 MI. 4.2 MI. TO IDAHO 16
T 5 N.
T 4 N.
T 3 N.
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2900
2800
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4840
4839
4838

N 128

OCT 0 1 1991





FLOATING FEATHER
PROTESTANTS

1
Richard & Diane Anderson
835 Los Luceros
Eagle, ID 83616

2
D.C. Boyer
2425 E. Floating Feather
Eagle, ID 83616

3
Mike & Sylvia Boyle
9845 Lariat
Boise, ID 83703

4
Steve & Anne Caron
11026 Culdesac Way
Boise, ID 83703

5
Curt Crosby
9902 Prairie
Boise, ID 83703

6
Clifford D. Chambers
10237 Prairie Rd.
Boise, ID 83703

7
Eleanor I. Chase
70 W. Floating Feather Rd
Eagle, ID 83616

8
Evelyn M. Creelman
9897 Lariat St.
Boise, ID 83703

9 Robert C. Day
11034 Culdesac
Boise, ID 83703

10 Robert DeShazo, Jr.
Eagle Water Corp.
P.O. Box 455
Eagle, ID 83616

11 Rod W. Eisele
654 Edgewood
Eagle, ID 83616

12 Evans Water Association
c/o Terry Loftus
216 Rene Place
Eagle, ID 83616

13 Tommy L. Eyton
11011 Runway Drive
Bopise, ID 83703

14 Farrell F. Ferguison
10753 Horseshoe Bend Rd.
Boise, ID 83703

15 Carole Fivecoat
10981 Hwy 55
Boise, ID 83703

16 Cliff Fivecoat
10981 Hwy 55
Boise, ID 83703

17 Cindy & Jose Franca
9837 Prairie Rd.
Boise, ID 83703

18 Dewain Glubay
500 Rene
Eagle, ID 83616

19 William M. Gornik
10943 Hwy 55
Boise, ID 83703

20 Blair & Carolyn Hagerman
10236 Prairie Rd.
Boise, ID 83703

21 Mike Hawkins
9975 Prairie Rd.
Boise, ID 83703

22 Gary M. Hazen
3577 W. Floating Feather Rd.
Eagle, ID 83616

23 Merle Hazen
2044 N. Meridian Rd.
Eagle, ID 83616

24 Barton L. Jackson
914 Los Luceros Dr.
Eagle, ID 83616

25 Carrie E. Jackson
914 Los Luceros Dr.
Eagle, ID 83616

26 George & Carol Jensen
3065 E. Floating Feather Rd.
Eagle, ID 83616

OCT 01 1991

27
Jack R. Jensen
10101 Cayuse Ln.
Boise, ID 83703

28
Otto L. & Beryl A. Johnson
10030 Prairie Rd.
Boise, ID 83703

29
Alice & Wendell Jones
11154 Culdesac
Boise, ID 83703

30
Ed. Lambert
10294 Prairie Rd.
Boise, ID 83703

31
George Loucks
2310 Madision Ave
Boise, ID 83702

32
Hugh & Suzanne Massie
10,000 Prairie Rd.
Boise, ID 83703

33
Karl & Kay Mauritz
1471 E. Floating Feather
Eagle, ID 83616

34
Howard Maxwell
10895 Hwy 55
Boise, ID 83703

35
Richard E. Meiers
8220 Northview
Boise, ID 83704

36
Richard L. Mincer
10955 Runway Drive
Boise, ID 83705

37
C.K. Moore
10455 Prairie Rd.
Boise, ID 83703

38
William & Helen Pardew
P.O. Box 699
Eagle, ID 83616

39
F.L. Persons
11133 Horseshoe Bend Rd.
Boise, ID 83703

40
Gerald & Catherine Renfro
10735 Horseshoe Bend Rd.
Boise, ID 83703

41
Monte & Suzanne Riley
10357 Prarie Rd.
Boise, ID 83703

42
Robert A. Rowen
222 Rooster Dr.
Eagle, ID 83616

43
Don & Janet Rydman
8999 Prairie Rd.
Boise, ID 83703

44
Dan Schill
9950 Prairie
Boise, ID 83703

45
Louis C. Siron, III
10374 Prairie Rd.
Boise, ID 83703

46
Steve & Ruby Smith
10029 Prairie Rd.
Boise, ID 83703

47
Beverly Snediker
9780 Prairie Rd.
Boise, ID 83703

48
Knight & Rhonda Stanley
11067 Culdesac Way
Boise, ID 83703

49
E.F. Stark
133 Rooster Dr.
Eagle, ID 83616

50
Robert & Sondra Strain
11029 Runway Drive
Boise, ID 83703

51
Dennis Sutherland
11036 Runway Dr.
Boise, ID 83703

52
S.H. Sutherland
2425 E. Floating Feather Rd.
Eagle, ID 83616

53
Sharyn K. Sutherland
11036 Runway Dr.
Boise, ID 83703

OCT 0 1 1991

54
Donald R. Thomas
10230 Caruse Ln.
Boise, ID 83703

55
Harry & Leona Vogt
3734 W. Beacon Lt. Rd.
Eagle, ID 83616

56
Mrs. C.B. Weber
11053 Horseshoe Bend Rd.
Boise, ID 83703

57
Neil D. Wilton
632 N. Edgewood Lane
Eagle, ID 83616

58 Dana Hofstetter
1098 Via Lucera
Eagle, Id 83616

OCT 0 1 1991

Robert & Sondra Strain
11029 Runway Drive
Boise, ID 83703

Dennis Sutherland
11036 Runway Dr.
Boise, ID 83703

S.H. Sutherland
2425 E. Floating Feather Rd.
Eagle, ID 83616

Sharyn K. Sutherland
11036 Runway Dr.
Boise, ID 83703

Donald R. Thomas
10230 Caruse Ln.
Boise, ID 83703

Harry & Leona Vogt
3734 W. Beacon Lt. Rd.
Eagle, ID 83616

Mrs. C.B. Weber
11053 Horseshoe Bend Rd.
Boise, ID 83703

Philip D. Whitener
198 Rooster Dr.
Eagle, ID 83616

Neil D. Wilton
632 N. Edgewood Lane
Eagle, ID 83616

59 Marcia Beckwith
2260 Dicky Dr.
Eagle, ID 83616

60 Robert E. Beckwith
2260 Dicky Dr.
Eagle, ID 83616

61 John Beggrow
315 Rene
Eagle, Id 83616

62 Nina L. Blan
385 Dicky Dr.
Eagle, ID 83616

63 Leann M. Boyce
2263 Sadie Dr.
Eagle, ID 83616

64 William L. Blan
385 Dicky Dr.
Eagle, ID 83616

65 Neal Bryson
399 Rene
Eagle, ID 83616

66 C.A. & Roberta Carpenter
453 Rene
Eagle, ID 83616

67 Shirley Chambers
2324 Sadie Dr.
Eagle, ID 83616

68 Jan & Walt Costello
300 Dicky
Eagle, ID 83616

69 Merville Cushing
398 Rene
Eagle, ID 83616

70 Roger & Elaine Darnell
464 Rene
Eagle, ID 83616

71 Frank & Janet Elliot
329 Dicky
Eagle, ID 83616

72 Debbie Fielding
2221 Dicky
Eagle, ID 83616

73 A. Daniel Freiberg
441 Rene
Eagle, ID 83616

74 Steve & Carolyn Haughton
2218 Dicky
Eagle, ID 83616

75 David Haworth
325 Dicky
Eagle, ID 83616

76 Larry Koomler
2301 Sadie
Eagle, ID 83616

OCT 01 1991

77
Ray Kreps
2171 E. Dicky
Eagle, ID 83616

78
Steve & Jeannie Lenon
371 Rene
Eagle, ID 83616

79
Jeff Mattoon
2266 Sadie
Eagle, ID 83616

80
Beth Olson
2252 E. Dickey
Eagle, ID 83616

81
Alice Plecker
2248 Sadie
Eagle, ID 83616

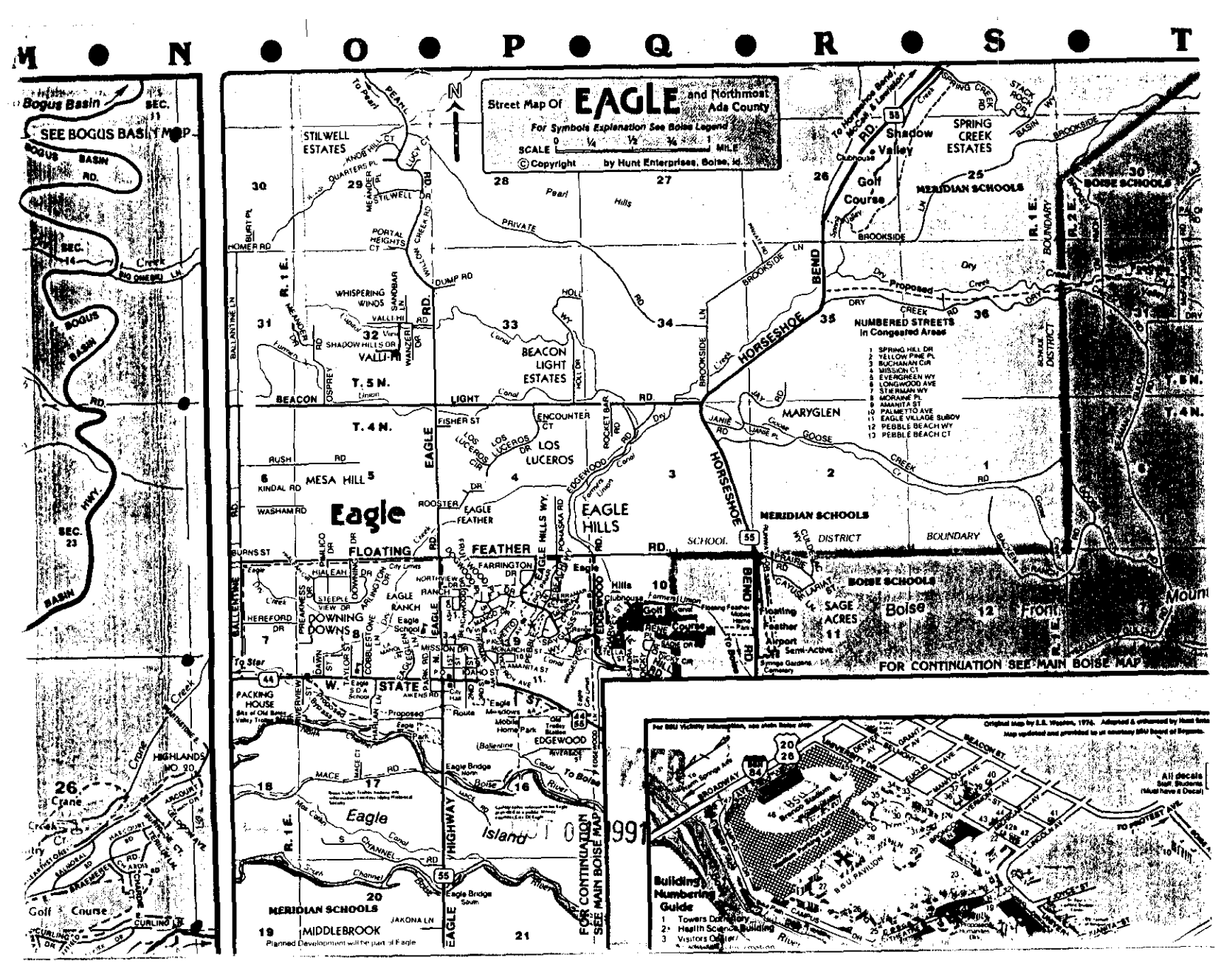
82
Rhonda Roberts
279 Rene
Eagle, ID 83616

83
Donald & Priscilla Rogers
425 Rene
Eagle, ID 83616

84
Thurman & Annemarie Wardlow
489 Rene
Eagle, ID 83616

85
Jene & Steve Yundt
477 Rene
Eagle, ID 83616

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OCT 0 1 1991


M N O P Q R S T
Street Map Of EAGLE and Northmost Ada County
For Symbols Explanation See Boise Legend
SCALE 0 ¼ ½ ¾ 1 MILE
© Copyright by Hunt Enterprises, Boise, Id.
SEE BOGUS BASIN MAP
Bogus Basin
BOGUS BASIN RD.
STILWELL ESTATES
BEACON LIGHT ESTATES
LOS LUCEROS
MESA HILL
Eagle
EAGLE HILLS
FLOATING FEATHER
DOWNING DOWNS
EAGLE RANCH
MARYGLEN
SPRING CREEK ESTATES
Shadow Valley Golf Course
NUMBERED STREETS In Congested Areas
1 SPRING HILL DR
2 YELLOW PINE PL
3 BUCHANAN CIR
4 WISSON CT
5 EVERGREEN WY
6 LONGWOOD AVE
7 STERLMAN WY
8 MORAINE PL
9 AMANITA ST
10 PALMETTO AVE
11 EAGLE VILLAGE SUBDV
12 PEBBLE BEACH WY
13 PEBBLE BEACH CT
MERIDIAN SCHOOLS
BOISE SCHOOLS
SAGE ACRES
Boise Airport
Semi-Active
PACKING HOUSE
HIGHLANDS
Golf Course
MERIDIAN SCHOOLS
MIDDLEBROOK
Planned Development will be part of Eagle
Eagle Island
FOR CONTINUATION SEE MAIN BOISE MAP
Building Numbering Guide
1 Towers Dormitory
2 Health Sciences Building
3 Visitors Center
All decals Staff, Students (Must have a Decal)
1991

Form 238
6/89

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE TYPEWRITER OR BALLPOINT PEN

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

RECEIVED
MAY - 1 1991
Department of Water Resources
Western Regional Office

1. WELL OWNER

Name Floating Feather Hills, Inc.

Address 2417 Bank Drive-Suite 101 Boise, ID 83705

Owner's Permit No. 63-91-W-044 63-11413 (App.Pending)

2. NATURE OF WORK

[X] New well [ ] Deepened [ ] Replacement
[ ] Well diameter increase
[ ] Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

3. PROPOSED USE

[ ] Domestic [ ] Irrigation [X] Test [ ] Municipal
[ ] Industrial [ ] Stock [ ] Waste Disposal or Injection
[ ] Other (specify type)

4. METHOD DRILLED

[ ] Rotary [ ] Air [ ] Hydraulic [X] Reverse rotary
[ ] Cable [ ] Dug [ ] Other

5. WELL CONSTRUCTION

Casing schedule: [X] Steel [ ] Concrete [ ] Other

Thickness	Diameter	From	To
.250 inches	16 inches +	18" feet	215 feet
.250 inches	16 inches	265 feet	375 feet
.250 inches	16 inches	385 feet	405 feet
inches	inches	feet	feet

Was casing drive shoe used? [ ] Yes [X] No
Was a packer or seal used? [ ] Yes [X] No
Perforated? [ ] Yes [X] No
How perforated? [ ] Factory [ ] Knife [ ] Torch [ ] Gun
Size of perforation inches by inches

Number	From	To
perforations	feet	feet
perforations	feet	feet
perforations	feet	feet

Well screen installed? [X] Yes [ ] No
Manufacturer's name Roscoe Moss
Type Hvy.Stainless Steel Model No. Wirewrap
Diameter 16 "Slot size .040 Set from 215 feet to 265 feet
Diameter 16 "Slot size .040 Set from 375 feet to 385 feet
Gravel packed? [X] Yes [ ] No [ ] Size of gravel 3/8-
Placed from 315 feet to 190 feet
Surface seal depth 90' [illegible] seal: [X] Cement grout
Sealedalso at 190-180
[ ] Bentonite [ ] Puddling clay [ ]
Sealing procedure used: [ ] Slurry pit [ ] Temp. surface casing
[X] Overbore to seal depth
Method of joining casing: [ ] Threaded [X] Welded [ ] Solvent Weld
[ ] Cemented between strata
Describe access port 2"

6. LOCATION OF WELL

Sketch map location must agree with written location.

N / W / E / S / X

Subdivision Name

Lot No. Block No.

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OCT 01 1991

County Ada

SW¼ SW¼ Sec. 3, T. 4N N [ ] S [ ] R. 1E E [ ] W [ ]

7. WATER LEVEL

Static water level 68 feet below land surface.
Flowing? [ ] Yes [ ] No G.P.M. flow
Artesian closed-in pressure p.s.i.
Controlled by: [ ] Valve [ ] Cap [ ] Plug
Temperature °F. Quality
Describe artesian or temperature zones below.

8. WELL TEST DATA

[ ] Pump [ ] Bailer [ ] Air [ ] Other

Discharge G.P.M.	Pumping Level	Hours Pumped

9. LITHOLOGIC LOG

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
28"	0	3	Top Soil		
	3	15	Sandy Loam		
	15	25	Coarse Sand & Pea Gravel		
	25	40	Med. to Crse. Sand		
	40	75	River Rock		
	75	85	Fine Sand		
	85	87	Lite Brn. Clay		
	87	106	Fine Sand		
	106	108	Lite Brn. Clay		
	108	124	Fine Sand		
	124	130	Lt. Brn. Clay		
	130	165	Fine Sand		
	165	175	Gldn.Fn./Med.Sand with some clay in spots.		
	175	182	Fine Sand		
	182	185	Lt.Brn.Clay & Fine Sand		
	185	189	Fine Sand		
	189	193	Fine to crse. Sand		
	193	195	Med./Crse. Sand & Clay Mxd.		
	195	198	Lt. Brn. Clay		
	198	205	Fine to Med. Sand		
	205	209	Fine/Crse.Sand & Lt.Brn. Clay Mxd.		
	209	211	Fine Sand		
	211	215	Fine/Med.Sand & Lt.Brn.Clay		
	215	225	Fine Sand		
	225	235	Sandwitched Sand & Clay (½)		
	235	265	Gray Sand		
	265	275	Sand-Clay (50-50)		
	275	282	Gray Clay		
	282	290	Fine Gray Sand		
	290	300	Gray Clay		
	300	305	Fine Gray Sand		
	305	311	Gray Clay w/sm.at.fine sand		
	311	315	Brn. & Gray Clay		

10.

Work started 2/26/91 finished 3/7/91

11. DRILLERS CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name PETE COPE DRILLING CO., INC. Firm No. 213

Address 6505 W. Chinden Blvd. Meridian, ID Date #3/12/91

Signed by (Firm Official) Joseph Jones

and

(Operator) Kevin Chastain

USE ADDITIONAL SHEETS IF NECESSARY — FORWARD THE WHITE COPY TO THE DEPARTMENT

Place all future
papers in file #2
as of 5-1-91

Form 238/7
6/89

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE TYPEWRITER OR BALLPOINT PEN

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

RECEIVED
MAY - 1 1991

1. WELL OWNER

Name Floating Feather Hills, Inc.

Address

Owner's Permit No.

2. NATURE OF WORK

☐ New well ☐ Deepened ☐ Replacement
☐ Well diameter increase
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

3. PROPOSED USE

☐ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other (specify type)

4. METHOD DRILLED

☐ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary
☐ Cable ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Casing schedule: ☐ Steel ☐ Concrete ☐ Other

Thickness	Diameter	From	To
inches	inches +	feet	feet
inches	inches	feet	feet
inches	inches	feet	feet
inches	inches	feet	feet

Was casing drive shoe used? ☐ Yes ☐ No
Was a packer or seal used? ☐ Yes ☐ No
Perforated? ☐ Yes ☐ No
How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun
Size of perforation inches by inches

Number	From	To
perforations	feet	feet
perforations	feet	feet
perforations	feet	feet

Well screen installed? ☐ Yes ☐ No
Manufacturer's name
Type Model No.
Diameter Slot size Set from feet to feet
Diameter Slot size Set from feet to feet
Gravel packed? ☐ Yes ☐ No ☐ Size of gravel
Placed from feet to feet
Surface seal depth feet Seal: ☐ Cement grout
☐ Bentonite ☐ Puddling clay ☐
Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing
☐ Overbore to seal depth
Method of joining casing: ☐ Threaded ☐ Welded ☐ Solvent Weld
☐ Cemented between strata
Describe access port

6. LOCATION OF WELL

Sketch map location must agree with written location.

N
W E
S

Subdivision Name

Lot No. Block No.

County

¼ ¼ Sec. T. N ☐ S ☐ R. E ☐ W ☐

7. WATER LEVEL

Department of Water Resources
Western Regional Office

Static water level feet below land surface.
Flowing? ☐ Yes ☐ No G.P.M. flow
Artesian closed-in pressure p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature °F. Quality
Describe artesian or temperature zones below

8. WELL TEST DATA

☐ Pump ☐ Bailer ☐ Air ☐ Other

Discharge G.P.M.	Pumping Level	Hours Pumped

9. LITHOLOGIC LOG

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
28"	315	325	Brn. & Gray Clay Mix w/ streaks of fine sand.		
	325	335	Blue Brown clay w/ stks. of sand.		
	335	351	Fine Blue Sand		
	351	365	Blue Clay		
	365	385	Fine Blue Sand		
	385	388	Blue Clay		
	388	393	Blue Sand		
	393	405	Blue Clay		

10.

Work started finished

11. DRILLERS CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name PETE COPE DRILLING CO., INC. Firm No. 213

Address Date

FILED
OCT 01 1991

Signed by (Firm Official)

and

(Operator)

USE ADDITIONAL SHEETS IF NECESSARY — FORWARD THE WHITE COPY TO THE DEPARTMENT

FLOATING FEATHER HILLS PUMPING TEST
PROGRESS REPORT

BY: C. Feast
Date: April 23, 1991
Project No.: BOI31684.A1

START OF THE TEST

The test was started at 10:56 am on March 26, 1991. Pumping rate was established at 750 gallons per minute (gpm) by several short pretest pumping intervals. After sufficient recovery time the actual test was started at 10:56 am. In attendance at the start of the test were FFH Inc., Idaho Department of Water Resources (IDWR), and several interested private parties.

MONITORING WELLS

The final monitoring well network consists of:

Well No.	Distance from pumped well
Pumped well	NA
Holgate	900 feet
Carson	1,300 feet
Eichhorn	600 feet
Hormachea	3,700 feet
Eagle Hills GC	2,500 feet
Floating Feather Irr.	5,000 feet
Day	7,500 feet
USGS	5,000 feet

WATER LEVEL MONITORING

Water levels were monitored in all wells for 3 to 7 days before the test to establish antecedent water level trends. The USGS well is equipped with a continuous recorder and has been monitored for about 2 years by agreement between USGS and IDWR. The Eagle Hills Golf Course, Hormachea and Day wells are equipped with water level recorders loaned to FFH Inc. by IDWR. The recorders were installed and are serviced by CH2M HILL for FFH Inc. Mr. Bill Pardew under direct agreement with FFH Inc. and under my supervision is collecting the daily water levels in all wells not equipped with recorders.

The recorder charts for the Hormachea and Eagle Hills Golf Course wells are collected every other day and water levels sounded to confirm the water level charts. The recorder on the Day well was swithed to an 8 day cycle beginning on April 13. All other wells are currently being monitored by water level probe 3 times per day at approximately 8 am, 3 pm and 11 pm. The USGS pulls the recorder charts from their well every 2 months. I have been in contact with USGS to ensure we have access to those charts.

OCT 01 1991

WATER LEVEL RESPONSES

Plots of the drawdown data for the Pumping Well, Holgate, Hormachea, Eichhorn, Carson and Eagle Hills Golf Course wells are attached. A plot of the pumping rate with time is also attached.

PROBLEMS AND COMMENTS

Pump Interruption

On April 1, 1991 Bill Pardew called me at home at 10:20 pm to advise that the pump was not on. I met Bill at the well at 10:45 pm. Water level in the well had recovered to about 104 feet. We restarted the pump at 10:50 pm. Apparently a power surge associated with the fire at Idaho Powers' E. Amity Road Substation that night caused the pump to kick off. This short interruption did not create a significant disruption of the test.

Eichhorn Well

Water level in the Eichhorn well initially started to decline slowly after about 1 day of pumping. After 2 days of pumping however water levels began to rise. From March 28 until April 11 water levels rose about 2.7 feet, higher than pre test conditions. Water levels started to decline again on April 11 and are now about .1 feet below pre test static water level.

This well is adjacent to the Farmers Union Canal into which the pump water is discharged and the rising water levels are directly attributed to recharge from the pump test discharge reaching the shallow aquifer from which the Eichhorn well draws.

The shallow aquifer, and the Eichhorn well, are recharged from the canal every year consequently this situation does not represent a problem for FFH Inc. It does however reduce the usefulness of the Eichhorn well for evaluation of the pumping test.

Farmers Union Canal

Water was run in the Farmers Union Canal on April 16. It is now running full.

SUMMARY

The test has been running for 28 days. Water levels in the pumped well are stable at about 155 feet which equates to a drawdown of about 81 feet from the pre test static water level of 74 feet. Drawdowns of several tenth's to about 3 feet have been observed in the closer observation wells. No effect has been detected at the distant wells. The observed drawdowns do not pose any threat to existing wells or pumps.

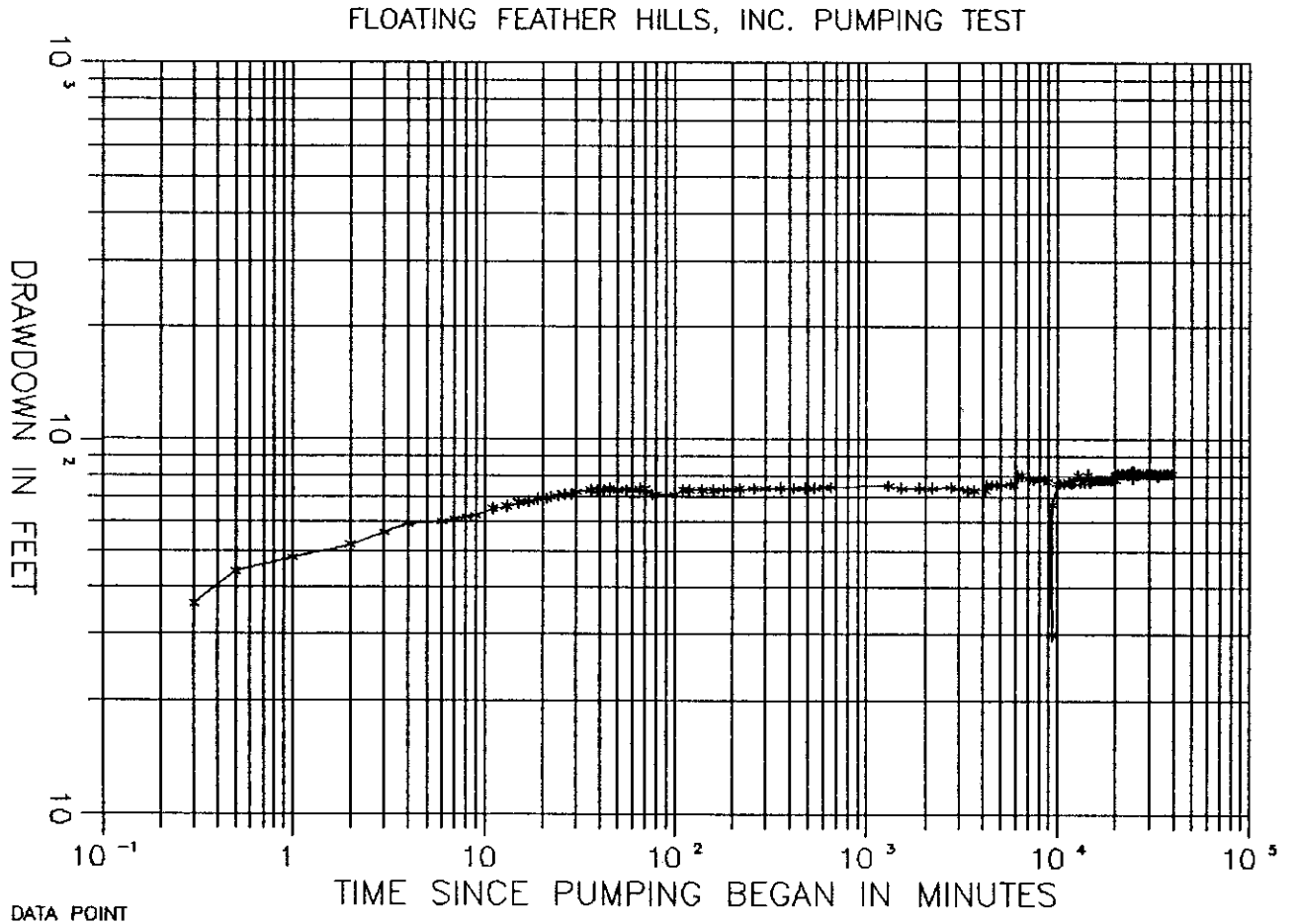
OCT 01 1991

RECOMMENDATIONS

The test has worked exceptionally well. There has been only one short interuption due to a power surge and pumping rates have been held very steady. The pump should be run until 10:56 am Thursday, April 25 and then turned off to begin the recovery portion of the test. It is very important that we enter into the recovery portion of the test on our own terms instead of as a emergency response to pump failure or potential loss of a critical observation well such as the Eagle Hills Golf Course well.

B0131684.A1
April 23, 1991
CH2M HILL

PRODUCTION WELL

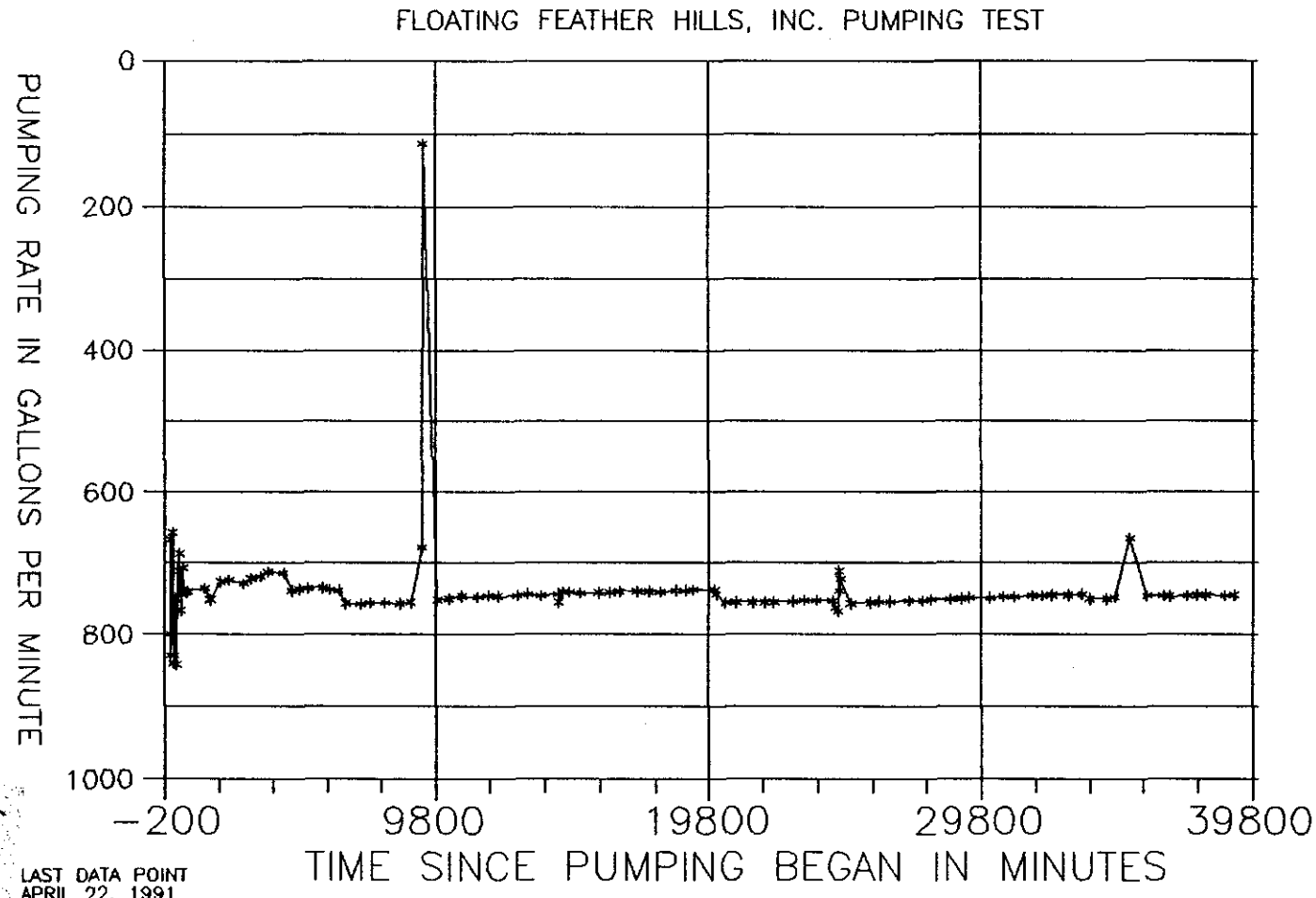


LAST DATA POINT
APRIL 22, 1991
15:03

OCT 01 1991

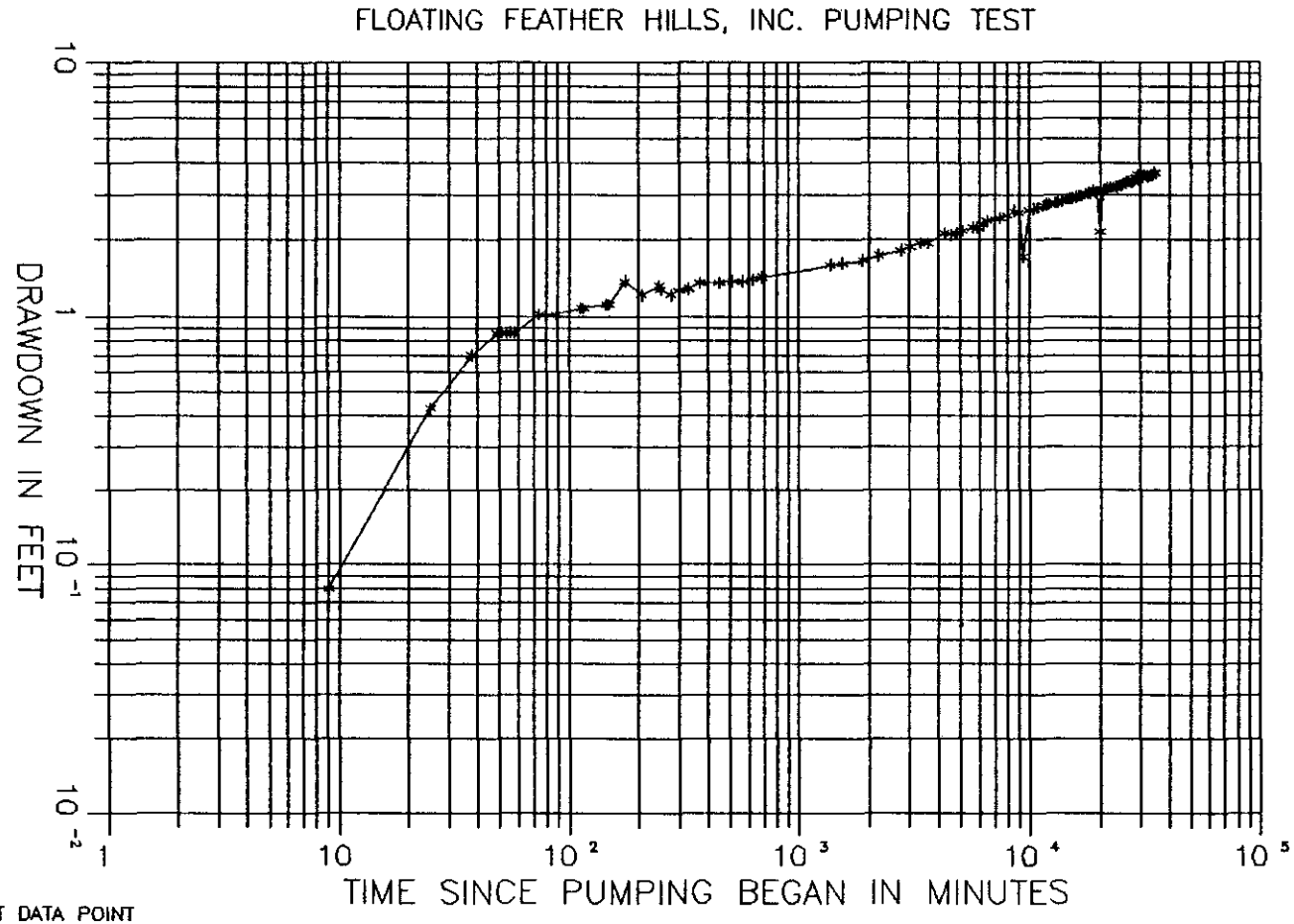
B0I31684.A1
April 23, 1991
CH2M HILL

PRODUCTION WELL



B0I31684.A1
April 23, 1991
CH2M HILL

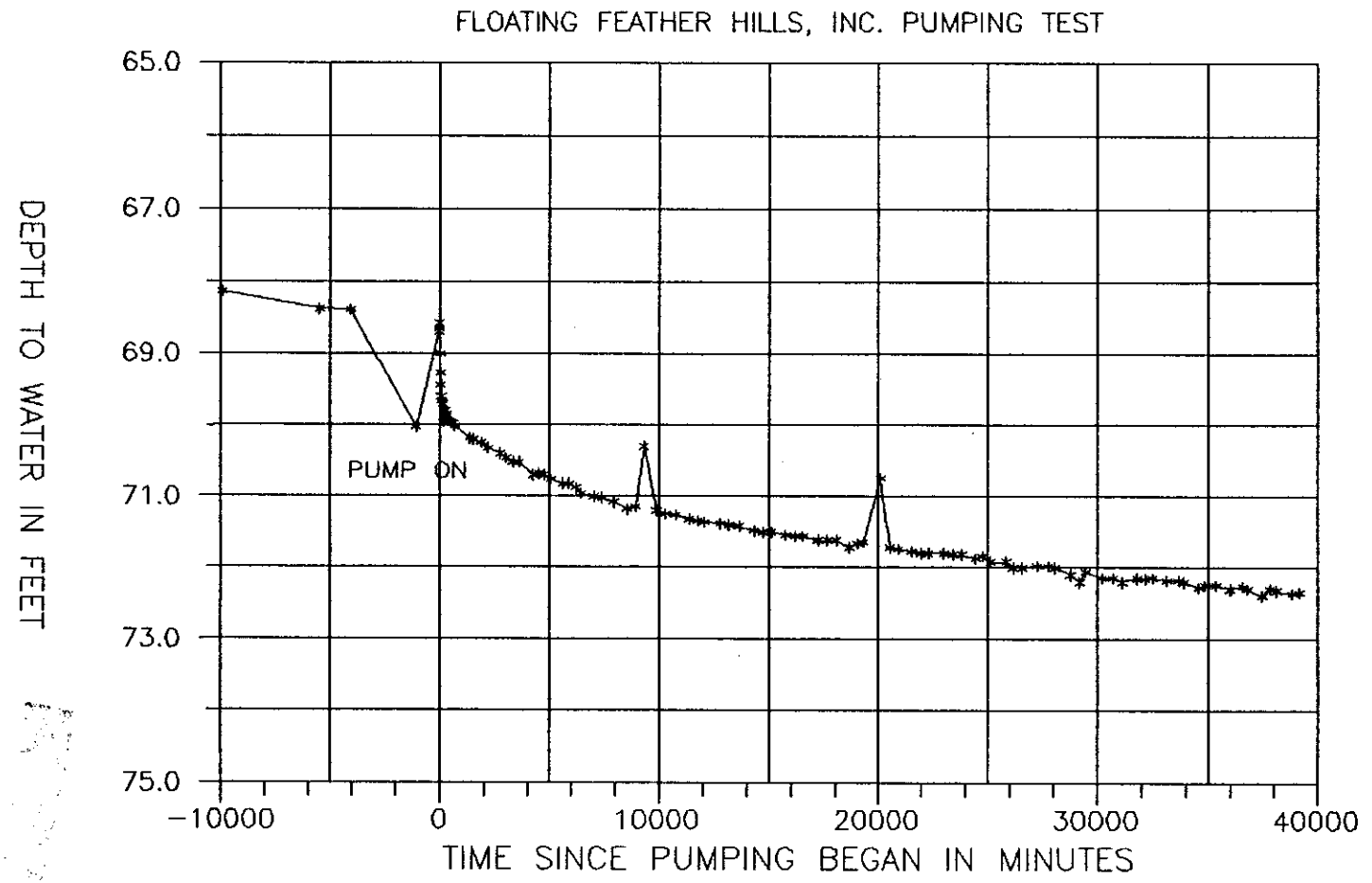
HOLGATE WELL



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APRIL 22, 1991
15:26

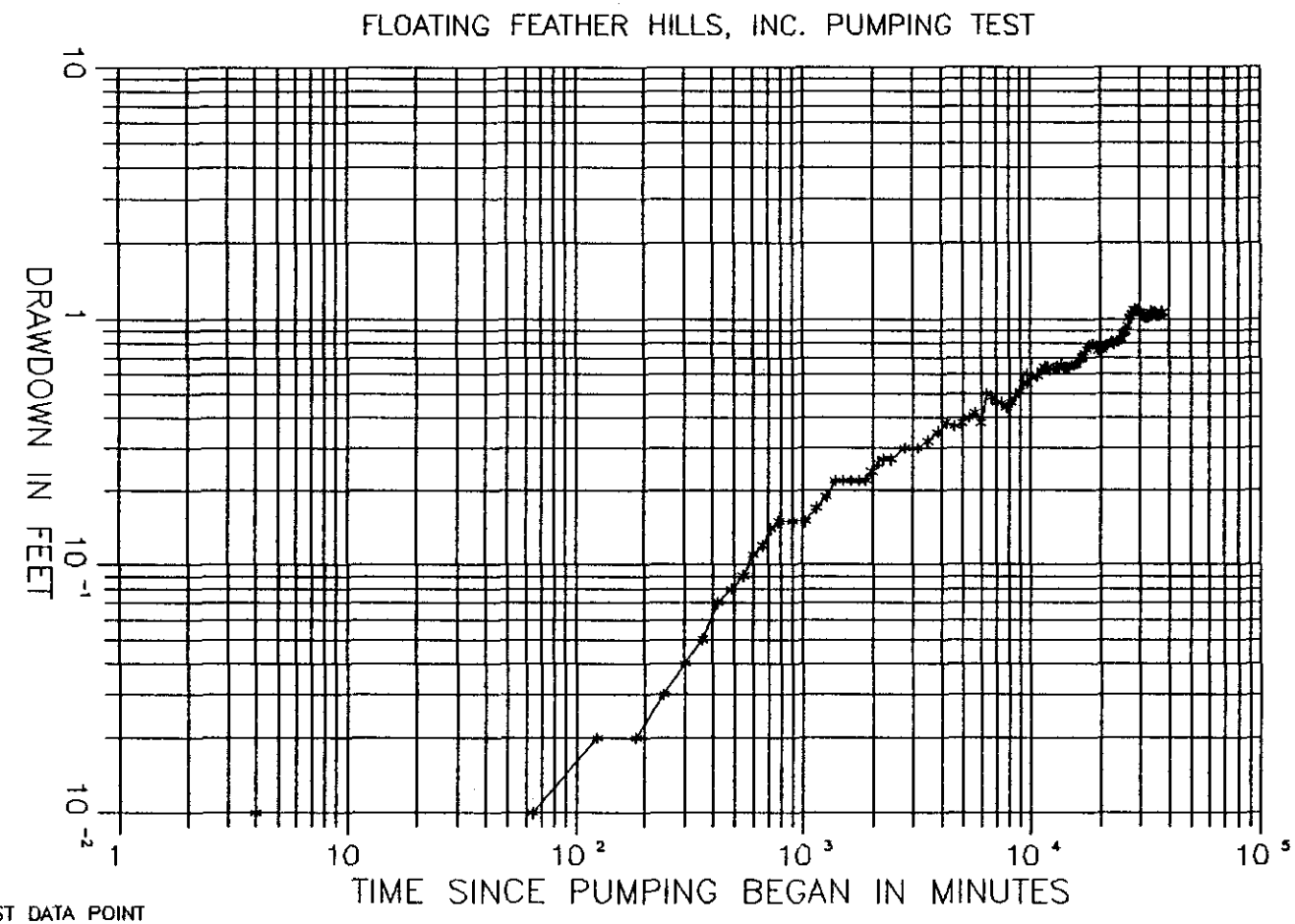
B0131684.A1
April 23, 1991
CH2M HILL

HOLGATE WELL



BOI31684.A1
April 23, 1991
CH2M HILL

HORMACHEA WELL

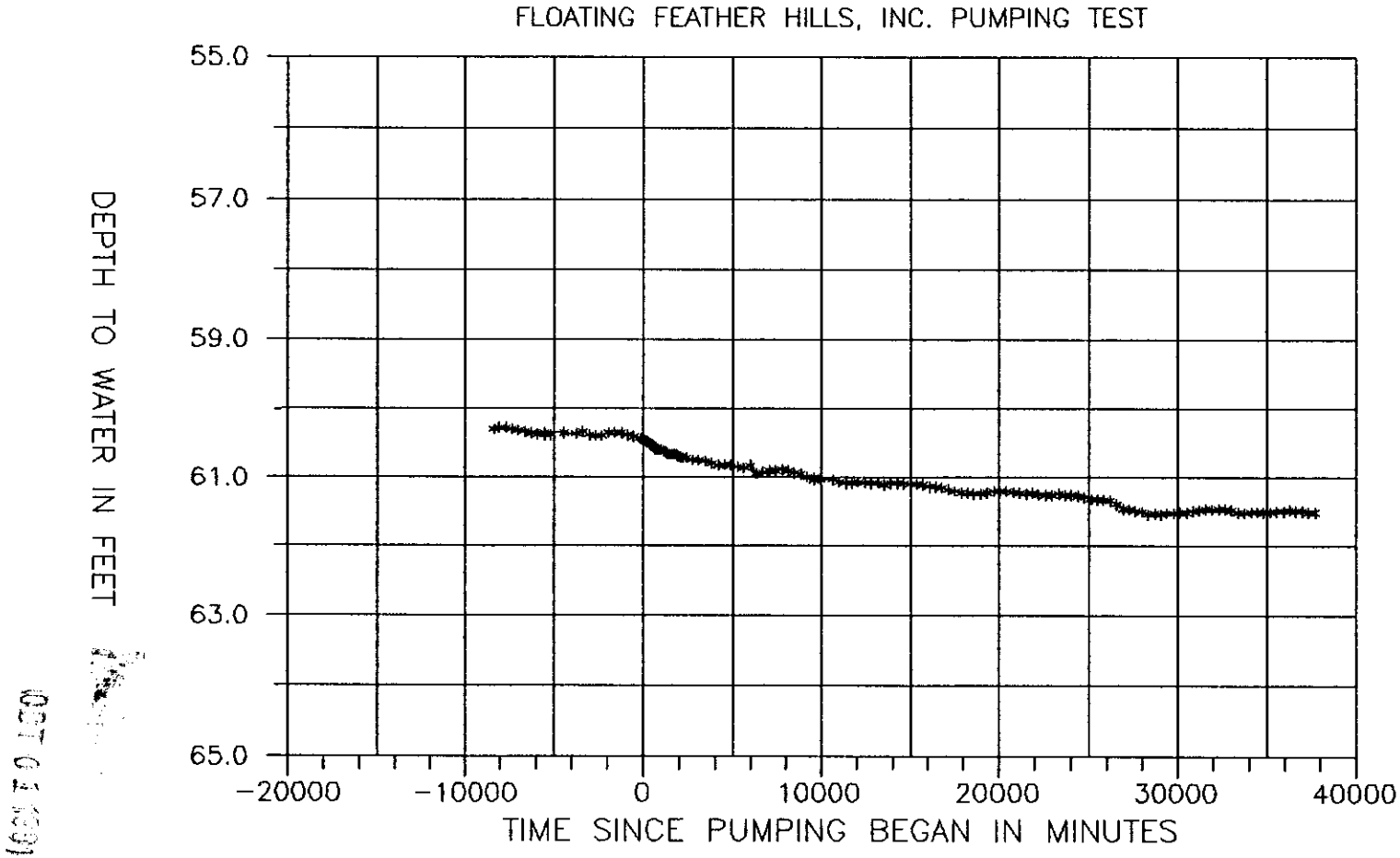


LAST DATA POINT
APRIL 21, 1991
15:00

OCT 01 1991

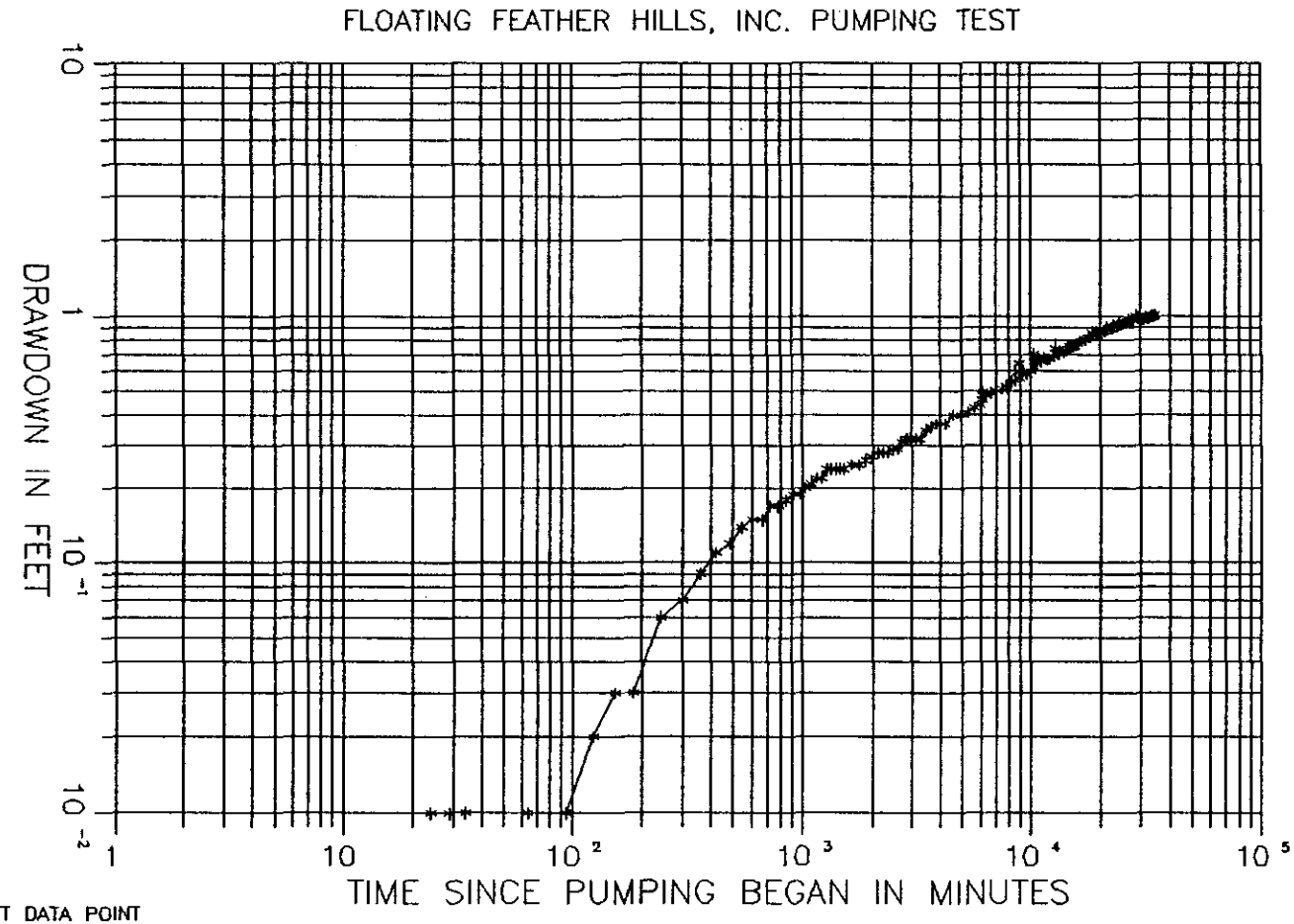
B0131684.A1
April 23, 1991
CH2M HILL

HORMACHEA WELL



B0I31684.A1
April 23, 1991
CH2M HILL

EAGLE HILLS GOLF COURSE WELL

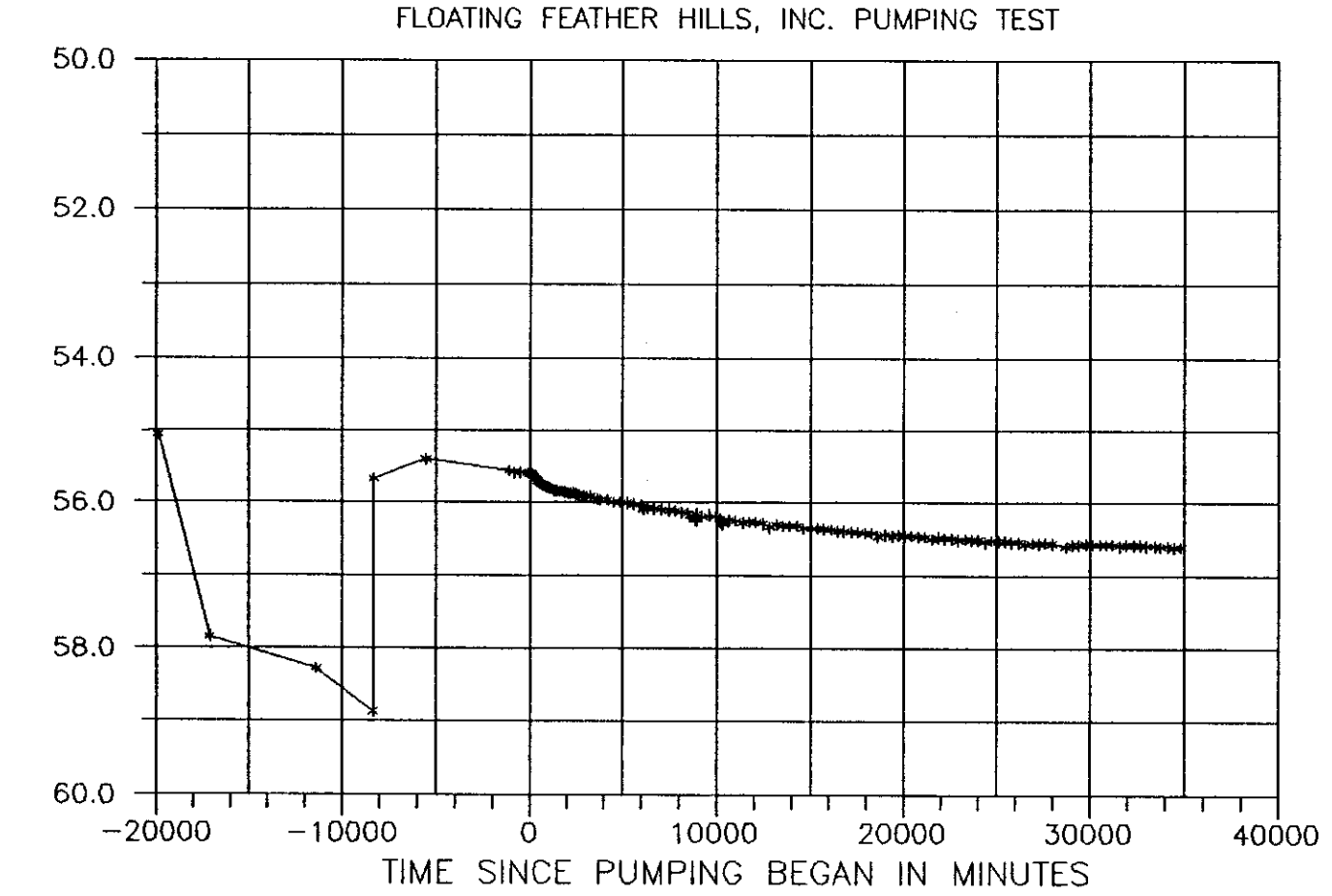


LAST DATA POINT
APRIL 19, 1991
15:00

OCT 01 1991

BOI31684.A1
April 23, 1991
CH2M HILL

EAGLE HILLS GOLF COURSE WELL

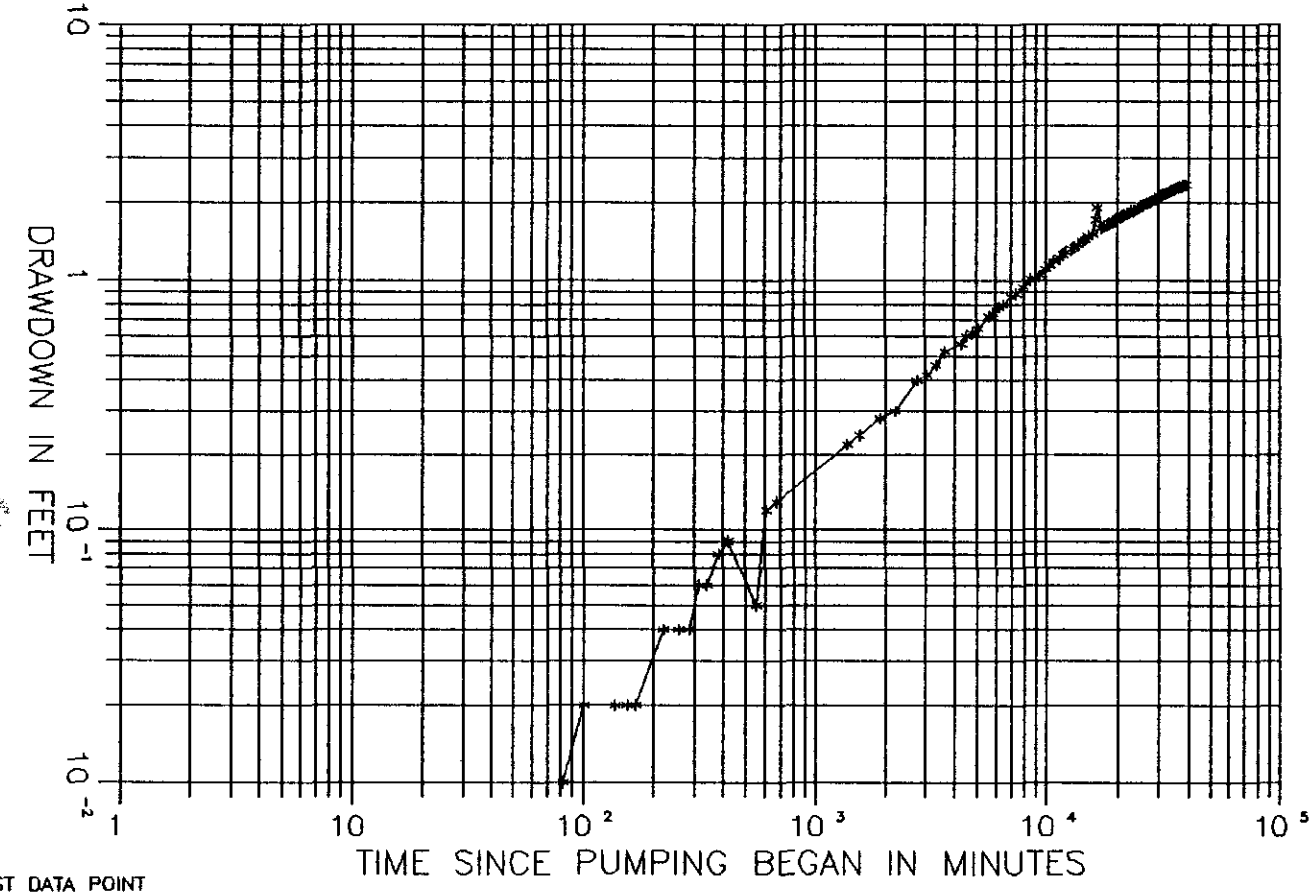


OCT 01 1991

BOI31684.A1
April 23, 1991
CH2M HILL

HARLEY CARSON WELL

FLOATING FEATHER HILLS, INC. PUMPING TEST



OCT 01 1991

LAST DATA POINT
APRIL 22, 1991
15:30

David R. Tuthill, Jr. P.E.
Manager, Western Regional Office
Department of Water Resources
Boise, Idaho 83705

RECEIVED
DEC 04 1990
Department of Water Resources
Western Regional Office

November 25, 1990

Dear Mr. Tuthill,

We have protested the application for a new well on Floating Feather Road, permit #63-11413, and now would like to ask you a few questions. We know that more and more development is going to occur out in our area, and we know that applications for large wells will increase tremendously. How can we keep protesting these wells without sounding like broken records, and what happens if they are finally allowed to put these horendous wells in and we are badly affected? By then it will be too late for us. The developers do not live out here; they come in, put in houses and are gone. The consequences are not their problems. Can we put through any legislation that would leave the developer liable for problems occuring from these massive ammounts of water that they want to use for their large developments?

It seems that everyone is concerned about saving the Payette, the Salmon, the Snake, and so on, but no one really cares about their own backyard. Here in Ada County, it seems like we are now of the idea, do anything you want as long as you can make big bucks. At one time, this all was a desert area. Through extensive canals and also wells, this has been turned into a lovely area. Developers see this and boy, they must have dollar signs in their eyes!

Is there a way to limit density to be compatible with the amount of water available for development? Shouldn't a large main water line be proposed for the future, coming from down near the Boise River somewhere?

OCT 01 1991

We live here because we like the area alot, but we have never taken our water for granted. In fact, our own water is a horrible orange color and we have spent lots of money to fix it. My husbands' father has a ranch out on North Eagle Road, and put thousands of dollars into a large irrigation well. However,

by the end of every summer, the well has gone dry. What happens when these developers put in these huge, costly wells, and they go dry? Whose responsibility will it be to make sure these people all have water? Does the burden shift to the taxpayers, because these developers are usually long gone? It's time that new developments stop taking presidence over established areas, without making a large monetary deposit in case of problems. Everyone has the right to use our natural resources, but common sence and good management are required with the groundwater as well as for any other resource. So far, our area has tried to manage, and we are economical in our usage, and we try to keep track what goes in out here, but we cannot keep fighting these monster wells without a little support.

Sincerely,

George and Carol Jensen

George and Carol Jensen
3065 Floating Feather Road
Eagle, Idaho 83616

OCT 01 1991

Jensen
3695 Floating Feather Rd
Eagle, Idaho
83616

BOISE, ID 837
PM
3 DEC
1990

U.S. POSTAGE
OFFICIAL SPONSOR
1992 OLYMPIC GAMES
25

OCT 01 1991

David R Tuthill Jr. P.E.
Manager - Western Region Office
Department of Water Resources
Boise,
Idaho 83705

RECEIVED
JAN 07 1991
Department of Water Resources
Western Regional Office

DAVID R. TUTHILL
MANAGER, WESTERN REGION
DEPARTMENT OF WATER RESOURCES
BOISE, IDAHO 83705

JAN. 7. 1991

DEAR MR. TUTHILL,

WE WISH TO PROTEST THE APPLICATION FOR A NEW WELL ON FLOATING FEATHER ROAD – PERMIT NUMBER 63-11413 SUBMITTED BY FLOATING FEATHER HILLS, INC.

WE FEEL THAT THIS WILL AFFECT OUR QUANTITY OF WATER WE GET FOR IRRIGATION AND IT WOULD PUT EXTREME FINANCIAL HARDSHIP UPON US WHEN OUR WELL IS AFFECTED. WE ALSO FEEL THAT THE AMOUNT REQUESTED IS MUCH MORE THAN NEEDED.
WE ARE A SMALL IRRIGATION GROUP COMPOSED OF SEVEN-FIVE ACRE TRACTS AND WE GO BY THE NAME OF FLOATING FEATHER IRRIGATION. THE OWNERS OF THIS WELL ON THE CORNER OF HGHY 55 & FLOATING FEATHER ROAD ARE: GEORGE & CAROL JENSEN,
TOM MARTIN
CLARENCE & VIRGINIA WEBER
BILL & DOROTHY GORNIK
CLIFF & CAROLE FIVECOAT
TED PERSONS
HOWARD & LYNN MAXWELL

ADDRESS:
FLOATING FEATHER IRRIGATION
% DOROTHY GORNIK
10943 HORSESHOE BEND RD
BOISE, IDAHO 83705

OCT 01 1991

SINCERELY,
× George & Carol Jensen
× Mr & Mrs C B Weber
× T L Persons
William M. Gornik - Dorothy M Gornik

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
JAN 07 1991
Department of Water Resources
Western Regional Office

~~November~~ Jan 5, 1990

Dear Mr. Tuthill,

My name is Marcia Beckwith

My address is 2260 Dicky Ct City Eagle St. ID Zip 83616

~~My well~~ The Evans subdivision well is approximately _____ feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01 1991

Thank you for your consideration,

Marcia Beckwith
(Signature)

6

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
JAN 07 1991
Department of Water Resources
Western Regional Office

Jan 5
~~November~~ ____, 1991

Dear Mr. Tuthill,

My name is Robert E. Beckwith

My address is 2260 Dickey cir City Eagle St. Id Zip 83616

our Evans Sub.
~~My~~ well is approximately _____ feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01 1991

Thank you for your consideration,

Robert E. Beckwith
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

JAN 07 1991
Department of Water Resources
Western Region Office

~~November~~ JAN 5 ~~, 1990~~ 1991

Dear Mr. Tuthill,

My name is JOHN BEGGROW

My address is 315 RENE EVANS City EAGLE St. ID Zip 83616

My well is approximately WATER feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

Thank you for your consideration,

OCT 01 1991

X John Beggrow
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

JAN 07 1991
Department of Water Resources
Western Regional Office

~~November~~ January 6, ~~1990~~ 1991

Dear Mr. Tuthill,

My name is NINA L. BLAN

My address is 385 DICKY DR City EAGLE St. Id Zip 83616

My well is approximately _____ feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01 1991

Thank you for your consideration,

Nina L. Blan
(Signature)

Boyce

63

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
JAN 07 1991
Department of Water Resources
Western Regional Office

JAN 5
~~November~~ ____, ~~1990~~ 1991

Dear Mr. Tuthill,

My name is Leann M. Boyce

My address is 2263 Sadie Dr. City Eagle St. ID Zip 83616
EVANS WATER

My well is approximately _____ feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

RECEIVED
OCT 01 1991

Thank you for your consideration,

Leann M. Boyce
(Signature)

Blan

64

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
JAN 07 1991
Department of Water Resources
Western Regional Office

~~November~~ December 5, ~~1990~~ 1991

Dear Mr. Tuthill,

My name is WILLIAM L. BLAN

My address is 385 DicKey Dr City Eagle St. ID Zip 83616

My well is approximately EVans 506 feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

RECEIVED
OCT 01 1991

Thank you for your consideration,

William L. Blan
(Signature)

JAN 7 1991

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

~~November~~ JAN 5 1991

Dear Mr. Tuthill,

My name is NEAL BRYSON

My address is 599 RENE City EAGLE St. ID Zip 83616

My well is approximately EAGLE WATER feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 21 1991

Thank you for your consideration,

Neal Bryson
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

JAN 07 1991
Department of Water Resources
Western Regional Office

~~November~~ JANUARY, ~~1990~~ 1991

Dear Mr. Tuthill,

My name is C.A & ROBERTA CARPENTER –

My address is 453 RENE City EAGLE St. Zip

My well is approxiratately EUHAN'S WATER feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01 1991

Thank you for your consideration,

Carpenter

Roberta Carpenter
(Signature)

Chambers

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

JAN 07 1991

November ____, 1990

Dear Mr. Tuthill,

My name is Shirley Chambers

My address is 2324 Sadie Dr City Eagle St. ID Zip 83616

My well is approximately Eden Sub feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

Richard Chambers

Ruth Chambers

Shirley Chambers

Thank you for your consideration,

OCT 01 1991

_____
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
JAN 07 1991
Department of Water Resources

~~November~~ JAN 3, ~~1990~~ 1991

Dear Mr. Tuthill,

My name is JAN & WALT COSTELLO

My address is 300 DICKEY City EAGLE St. ID Zip 83616

My well is approximately EVANS WATER feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

RECEIVED
OCT 21 1991

Thank you for your consideration,

Janice Costello
Walt Costello
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
JAN 07 1991
DEPARTMENT OF WATER RESOURCES
WESTERN REGION

November ____, ~~1990~~
JAN 5 1991

Dear Mr. Tuthill,

My name is MARVELLE CUSHING

My address is 398 RENE City EAGLE St. ID 83616 Zip

My well is approximately EUHO'S WATER feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01 1991

Thank you for your consideration,

X Marvelle Cushing
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

JAN 07 1991

~~November~~ JANUARY ____, ~~1990~~ 1991

Dear Mr. Tuthill,

My name is ROGER & ELAINE DARNELL

My address is 464 RENE City EAGLE St. ID. Zip 83616

My well is approximately EVANS WATER feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

_____

_____

_____

_____

OCT 1 1991

Thank you for your consideration,

Roger Darnell Elaine Darnell
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

JAN 07 1991
Department of Water Resources
Western Regional Office

November ~~1990~~ JAN 5 1991

Dear Mr. Tuthill,

My name is FRANK & JANET ELLIOT

My address is 329 DICKEY DR City EAGLE St. ID Zip 83616

My well is approximately EVANS WATER feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

Thank you for your consideration,

Franklin Elliott
(Signature)

OCT 21 1991

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

JAN 07 1991

~~November~~ Jan 5, 1991 ~~1990~~

Dear Mr. Tuthill,

My name is Debbie Fielding

My address is 2221 Ducky Ct City Eagle St. Id Zip 83616

My well is approximately Evan Skwater feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01 1991

Thank you for your consideration,

Debbie Fielding
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

JAN 07 1991
DEPARTMENT OF WATER RESOURCES
WESTERN REGIONAL OFFICE

~~November~~ JAN 5, ~~1990~~ 1991

Dear Mr. Tuthill,

My name is A. DANIEL FREIBERG

My address is 441 RENE PL City EAGLE St. ID Zip 83616

My well is approximately EVANS WINTER feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01 1991

Thank you for your consideration,

Dan Freiberg — Karen Freiberg

(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

JAN 07 1991

November ____, 1990
1991

Dear Mr. Tuthill,

My name is STEVE HAUGHIN & MRCLYN

My address is 2215 DICKEY CT City EAGLE St. ID Zip 83616

My well is approximately EUNUS WATER feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

Thank you for your consideration,

(Signature)

OCT 01 1991

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

JAN 07 1991
Department of Water Resources
Western Regional Office ~~November~~ ____, 1990

JAN 5 1991

Dear Mr. Tuthill,

My name is David Haworth

My address is 325 Dicky Dr City Eagle St. ID Zip 83616

My well is approximately FLOWS WATER feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

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OCT 01 1991

Thank you for your consideration,

David R. Haworth
(Signature)

RECEIVED
JAN 07 1991
Department of Water Resources
Western Regional Office

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

November ~~JAN. 5~~, 1990
1991

Dear Mr. Tuthill,

My name is LARRY KOOMLER

My address is 2301 SADIE City EAGLE St. ID Zip 83616

My well is approximately EUNUS WATER feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01 1991

Thank you for your consideration,

Larry Koomler Christine Koomler
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

JAN 7 1991
Department of Water Resources
Western Regional Office

~~November~~ January 5 1991

Dear Mr. Tuthill,

My name is Ray Kreps

My address is 2171 E. Dicky Ct City Eagle St. Id Zip 83616

My well is approximately EVANS WATER feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01 1991

Thank you for your consideration,

Ray Kreps Karen K Kreps
(Signature)

RECEIVED
JAN 07 1991

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

November ____, 1990

Dear Mr. Tuthill,

My name is @ STEVE D & JENNIE LENON

My address is 371 RENE City EAGLE St. ID Zip 83616

My well is approximately EUHW'S WATER feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

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OCT 01 1991

Thank you for your consideration,

Jeannie Lenon Steve Lenon
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

JAN 07 1991

Department of Water Resources
Western Regional Office

~~November~~ JAN ____, ~~1990~~ 1991

Dear Mr. Tuthill,

My name is JEFF HATTOON

My address is 2766 SADIE DR City EAGLE St. ID Zip

My well is approximately RUNS WATER feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

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Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01 1991

Thank you for your consideration,

Jeff Hattoon
(Signature)

80

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
JAN 07 1991
Department of Water Resources
Western Regional Office

~~November~~ JAN 5 ~~, 1990~~ 1991

Dear Mr. Tuthill,

My name is BETH OLSON

My address is 2252 E DICKEY City EAGLE St. ID Zip 83616

My well is approximately EUNOS WATER feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

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RECEIVED
OCT 01 1991

Thank you for your consideration,

Beth A. Olson
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
JAN 07 1991
Department of Water Resources

~~November~~ JAN 5 ~~, 1990~~ 1991

Dear Mr. Tuthill,

My name is ALICE PLECKER

My address is 2248 SADIE City EAGLE St ID Zip 83616

My well is approxirately EUMUS WATER feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

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_____

_____

_____

_____

Thank you for your consideration,

OCT 01 1991

Alice Plecker
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
JAN 07 1991
Department of Water Resources
Western Regional Office

November ____, 1990

Dear Mr. Tuthill,

My name is RHONDA ROBERTS

My address is 279 REINE STORM City EAGLE St. ID Zip 83616

My well is approxirately WATER feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

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OCT 01 1991

Thank you for your consideration,

Rhonda Roberts
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

JAN 17 1991
Western Regional Office

November ____, 1990

Dear Mr. Tuthill,

My name is DONALD ROGERS PRISCILLA ROGERS

My address is 425 RENE PL. City EAGLE St. ID Zip 83616

My well is approximately EVENSWATER feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

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_____

_____

_____

_____

OCT 01 1991

Thank you for your consideration,

Donald Rogers
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

JAN 17 1991

~~November~~ JAN. 5, ~~1990~~ 1991

Dear Mr. Tuthill,

My name is THURMAN W. WARDLOW & ANNEMARIE T.

My address is 489 RENE City EAGLE St. ID Zip 83616

My well is approximately EVANS WATER feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

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_____

_____

_____

_____

OCT 01 1991

Thank you for your consideration,

Annemarie T. Wardlow
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

JAN 07 1991
Department of Water Resources
Western Regional Office

~~November~~ ____, ~~1990~~
JAN 5. 1991

Dear Mr. Tuthill,

My name is JENE/STEVE YUNDT

My address is 477 RENE City EAGLE St. ID Zip 83616

My well is approxirately EVANS WATER feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

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OCT 01 1991

Thank you for your consideration,

E Jene Yundt
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 30, 1990

Dear Mr. Tuthill,

My name is Richard & Diane Andersson

My address is 835 Los Luceros City Eagle St. Id Zip 83616

My well is approximately 80 feet deep and 14 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

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OCT 01 1991

Thank you for your consideration,

Diane Andersson
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
NOV 27 1990
Department of Water Resources
Western Regional Office

November 24, 1990

Dear Mr. Tuthill,

My name is D. C. Boyer

My address is 2425 E Floating Feather City Eagle St Id Zip 83616

My well is approximately 289 feet deep and 26 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01 1991

Thank you for your consideration,

D C. Boyer
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

~~November~~ 2 , 1990
Dec.

Dear Mr. Tuthill,

My name is Mike & Sylvia Boyle

My address is 9845 Laridt City Boise St Id. 83703

My well is approximately 178 feet deep and 18 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applica has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

Thank you for your consideration,

OCT 01 1991

Mike & Sylvia Boyle
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

DEC 1 ...
... of Water Resources
... Regional Office

November 30, 1990

Dear Mr. Tuthill,

My name is Larry & Virginia Burnette

My address is 624 Los Lunas City Eagle St Id 83616

My well is approximately 50 feet deep and 2 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

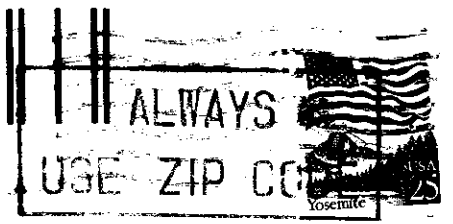
... 01 1991

Thank you for your consideration,

Virginia L Burnette
(Signature)

L. Brunetti
624 Los Luceros Cir.
Eagle ID 83616





OCT 01 1991

~~CAMP HILL PA 17012-6801~~

Dept of Water Resources
2735 Airport Way
Boise Id 83705

[redacted]

David Tuthill



PLEASE ORDER ON THE REPLY FORM IN THE USUAL WAY AND DETACH FLAP BEFORE RETURNING THE ENVELOPE.

for Fastest Service, Please:

- Be sure "Customer Service Center" shows through window.
- Do not use paper clips or staples.

Printed in U.S.A.

DIANE ANDERSON
835 LOS LUCEROS
EAGLE, IDAHO 83616

REALTOR

BOISE, ID 837
PM
30 NOV
1990



OCT 0 1 1991

David Tuthill
Department of Water Resources
2735 Airport Wy
Boise, Id 83705

RECEIVED
NOV 29 1990
Department of Water Resources
Western Regional Office

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

November 26, 1990

Dear Mr. Tuthill,

My name is CLIFFORD W CHAMBERS

My address is 10237 PRAIRIE RD Boise City Id St. 83713

My well is approximately 160 feet deep and 32 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01 1991

Thank you for your consideration,

Clifford W Chambers
(Signature)

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

November 26th 1990

Dear Mr. Tuthill,

My name is Steve and (Shelley) Anne Caron

My address is 11026 Culdesac Way City Boise St Id Zip 83703

My well is approximately (Two Wells) 1. 250' 2. 600' feet deep and 1. 12 years 2. 12 years years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

We have been breaking suction in our well from the beginning of Nov. 1990 - We have in turn had to lower our pump 42' to reach a comfortable draw down for our water use. We are definatley concerned about future water use in our area! Please contact us with questions - 939-2381

Thank you for your consideration,

Anne M. Caron
(Signature)

OCT 04 1991

Cliff Chambers
10737 Prairie Rd
Boise, Id. 83703

BOISE, ID
PM
28 NOV
1990



OCT 01 1991

David R Tuthill JR PE
Manager West. Reg. office
Dept of Water Resources
2735 Airport Way
Boise Idaho 83705

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 29, 1990

Dear Mr. Tuthill,

My name is Eleanor I. CHASE

My address is 70 W. Floating Feather Rd City Eagle, Idaho Zip 83616

My well is approximately 280 feet deep and about 100 years of age.
I Also have wells about 340ft. deep - about 100 yes-old newer well - 340ft. deep (about 10 yrs)
I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it ~~will~~ could interfere with my water rights. I do have a Dairy Farm and don't want a water problem - (Absence of water)
I feel it is not in the public interest and may cause hardship to present landowners that are adjacent to or in that area as wells in that area have gone dry and deep wells are a necessity -
I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation. If there is an excess I would be concerned of the possibility of more flooding from Dry Creek which goes through my farm -
The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

I understand that area has only had irrigation water for the fields. Drilling wells in that area could be another problem (without testing for a large water supply) if it becomes highly populated -
(I have lived on this farm for 41 yrs - So know of some water problems)

Thank you for your consideration,
Sincerely yours.
Eleanor I. Chase
(Signature)

OCT 01

Eleanor I. Chase
70 W. Floating Feather Rd.
Eagle, Idaho 83616



OCT 01 1991

David H. Tuthill, Jr., P.E.
Manager, Western Regional Office
Dept of Water Resources
2735 Airport Way
Boise, Idaho 83705

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

~~November~~ Dec. 2, 1990

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

Dear Mr. Tuthill,

My name is Evelyn M Creelman

My address is 9897 Lariat St. City Boise St ID 83703

My well is approximately 200 feet deep and 20 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicar has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

RECEIVED
OCT 01 1991

Thank you for your consideration,

Evelyn M Creelman
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 30, 1990

Dear Mr. Tuthill,

My name is CURT CROSBY

My address is 9902 PRAIRIE City BOISE St. ID Zip 03

My well is approximately 360 feet deep and 8 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01 1991

Thank you for your consideration,

(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 30, 1990

Dear Mr. Tuthill,

My name is Robert C. Day

My address is 11034 Culdesac City Boise St. 03 Zip

My well is approximately 330 feet deep and 15 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01 1991

Thank you for your consideration,

Robert C. Day
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 28, 1990

Dear Mr. Tuthill,

My name is Robert DeShazo Jr. (Eagle Water Company)

My address is P.O Box 455 City Eagle St. Id Zip 83616

My well is approximately 500 feet deep and 17 +- years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01 1991

Thank you for your consideration,

(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

November 9th, 1990

RECEIVED
DEC 12 1990
Department of Water Resources
Western Regional Office

Dear Mr. Tuthill,

My name is John F. Dutcher & Kathy Klutcher

My address is 602 LOS LUCEROS City Eagle St. Zip 8366

My well is approximately 40(?) feet deep and 12 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

Thank you for your consideration,

OCT 01 1991

(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
NOV 27 1990
Department of Water Resources
Western Regional Office

November 23, 1990

Dear Mr. Tuthill,

My name is Rod W. Eisele

My address is 654 Edgewood City Eagle St. Id. Zip 83616

My well is approximately sixty feet deep and 28 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

Thank you for your consideration,

Rod W Eisele
(Signature)

OCT 01 1991

R.W. Eisele
654 Edgewood
Eagle, Idaho
83616-5314

BOISE. ID 837
PM
26 NOV
1990



OCT 01 1991

David R. Tuthill Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho
83705

1990

November 28, 1990

Dave Tuthill
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RE: 63-11413
Floating Feather Hill Inc.

Dear Mr. Tuthill:

The Board of Directors for the Evans Water Association has reviewed the above referenced application for a permit and have determined the construction of the well will have an adverse effect on wells supplying water to our subdivision.

We respectfully protest the issuance of a permit to construct the proposed well. We believe the consumptive nature of the well will interfere with our existing water rights, and is not in the best interest of the Evans Water Association.

We have also been informed that the lands in question are within the boundaries of the Farmers Union Canal Company. Additional depletion of the ground water for irrigation of lands covered by surface water is not in the best interest of the public, and should not be allowed.

Based on review of the application we believe the amounts are excessive and speculative in nature because development has not been approved for this area.

Sincerely

Terry Loftus

Terry Loftus
Secretary/Treasurer
Evans Water Assn.
216 Rene Place
Eagle, Idaho 83616

OCT 0 1 1991

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 30, 1990

Dear Mr. Tuthill,

My name is Tommy L. Eyton

My address is 11001 Runway Drive City Boise St. ID Zip 83703

My well is approximately 280 feet deep and 14 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

City water & sewer should be run out For any Further Housing development in this AREA! Ground water is not very plentiful especially For Housing on less than 1 unit per Acre

Thank you for your consideration,

OCT 01 1991

Tommy L Eyton
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
NOV 27 1990
Department of Water Resources
Western Regional Office

November 26, 1990

Dear Mr. Tuthill,

My name is FARRELL E. FERGUISON

My address is 10753 HORSESHOE BEND RD. City BOISE ID St. 83703 Zip

My well is approximately 123 1/2 feet deep and 30 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

Thank you for your consideration,

OCT 01 199

Farrell Ferguison
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

November 27, 1990

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

Dear Mr. Tuthill,

My name is Carole Fivecoat

My address is 10981 Hwy 55 City Boise St. Id Zip 83703

My well is approximately 157 feet deep and 34 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

Thank you for your consideration,

Carole Fivecoat
(Signature)

OCT 01 1991

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

DEC 03 1990
Department of Water Resources
Western Regional Office

November 27, 1990

Dear Mr. Tuthill,

My name is Cliff Fivecoat

My address is 10981 Hwy 55 City Boise St. Id Zip 83703

My well is approximately 157 feet deep and 34 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

Thank you for your consideration,

Cliff Fivecoat
(Signature)

DEC 1 1991

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 30, 1990

Dear Mr. Tuthill,

My name is Cindy & José Franca

My address is 9837 Prairie Rd City Boise St Id Zip 8

My well is approximately 410' feet deep and 14 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applica has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Featner Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01 1991

Thank you for your consideration,

Cindy Franca
(Signature)
José de Franca

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
NOV 26 1990
Department of Water Resources
Western Regional Office

November 23, 1990

Dear Mr. Tuthill,

My name is Dewain Gluhay

My address is 500 Rene City Eagle St. IDA Zip 83616

My well is approximately 310 feet deep and 20 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

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Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

If this well is approved, it will be in our Aquifer, which would pull what good water we now receive and leave us with sand or clay.

Thank you for your consideration,

OCT 01 1991

Dewain Gluhay
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
NOV 26 1990
Department of Water Resources
Western Regional Office

November 23, 1990

Dear Mr. Tuthill,

My name is Colleen Glubay

My address is 500 Rene City Eagle St. Idaho Zip 83616

My well is approximately 310 feet deep and 20 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

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Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

If this well is approved, it will be in our aquifer, which would pull what good water we now receive and leave us with sand or clay.

Thank you for your consideration,

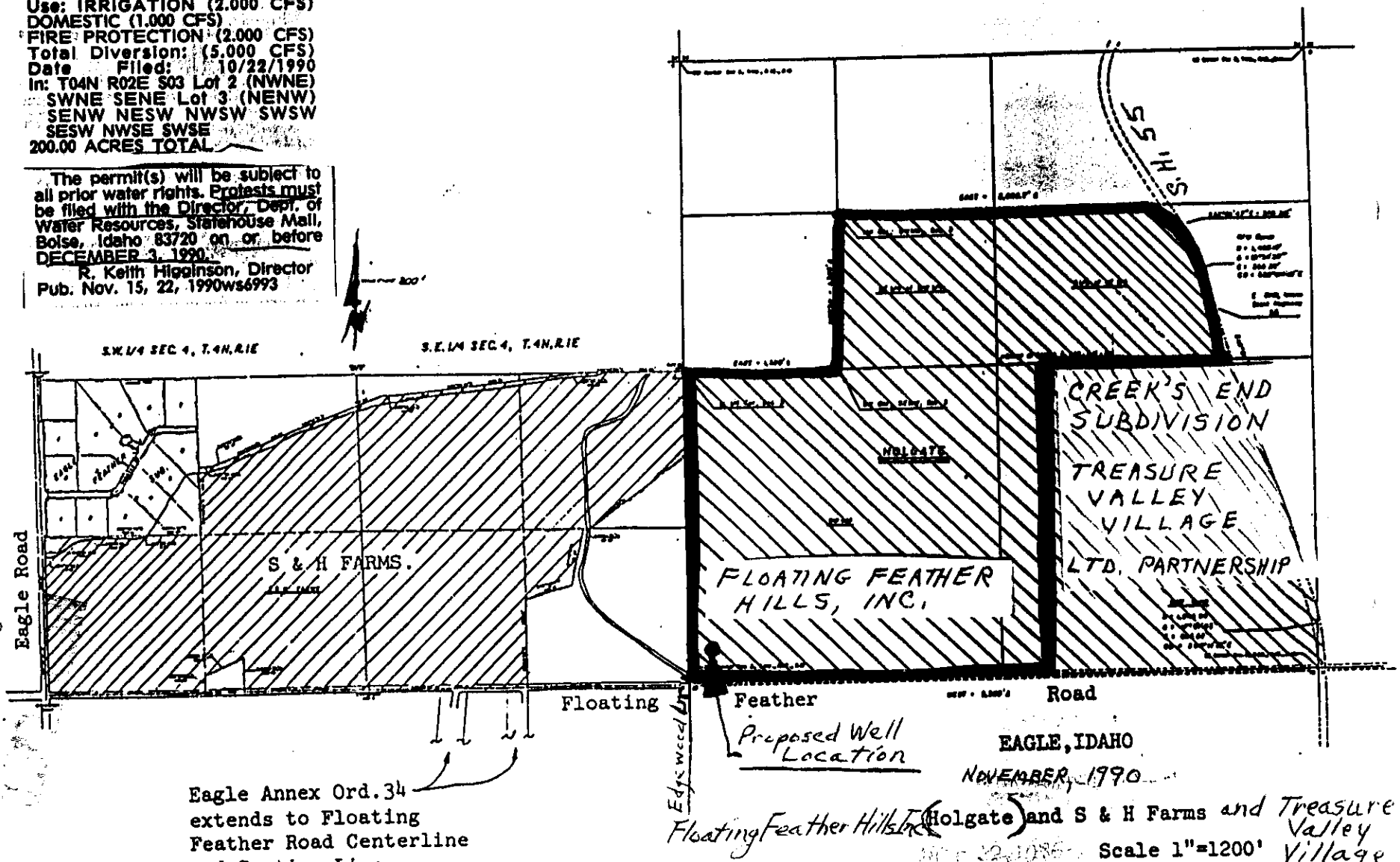
Colleen K Glubay
(Signature)

OCT 01 1991

63-11413
FLOATING FEATHER HILLS INC.
4227 EMERALD
BOISE, ID 83706
Source: GROUNDWATER
Diversion Pt: SWSWSW Sec 3 T04N R01E
Use: IRRIGATION (2.000 CFS)
DOMESTIC (1.000 CFS)
FIRE PROTECTION (2.000 CFS)
Total Diversion: (5.000 CFS)
Date Filed: 10/22/1990
In: T04N R02E S03 Lot 2 (NWNE) SWNE SENE Lot 3 (NENW) SENW NESW NWSW SWSW SESW NWSE SWSE
200.00 ACRES TOTAL

The permit(s) will be subject to all prior water rights. Protests must be filed with the Director, Dept. of Water Resources, Statehouse Mail, Boise, Idaho 83720 on or before DECEMBER 3, 1990.
R. Keith Higginson, Director
Pub. Nov. 15, 22, 1990ws6993

OCT 22 1990



Eagle Annex Ord. 34 extends to Floating Feather Road Centerline and Section Line

Floating Feather Hills Inc. (Holgate) and S & H Farms and Treasure Valley Village Ltd. Partnership (Creek's End Subdivision)

NOV 22 1990

HOLLAND & HART
ATTORNEYS AT LAW

SUITE 1400
WEST ONE PLAZA
BOISE, IDAHO
MAILING ADDRESS
P.O. BOX 2527
BOISE, IDAHO 83701

OCT 01 1991

BOISE, ID
PM
3 DEC
1990
83

ALWAYS
USE ZIP CODE

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Dept. of Water Resources
2735 Airport Way
Boise, ID 83705

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 04 1990
Department of Water Resources
Western Regional Office

November 30, 1990

Dear Mr. Tuthill,

My name is Dana Hofstetter

My address is 1098 Los Lucros Dr. City Eagle St. ID Zip 83616

My well is approximately unknown feet deep and 14 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01 1991

Thank you for your consideration,

Dana Hofstetter
(Signature)

Merle Hazen
Rt 1 Eagle Idaho
83616

BOISE. ID 837
PM
28 NOV
1990



David R. Tuthill, Jr. P.E.
Manger, Western Regional Office
Dept of Water Resources
2735 Airport Way
Boise Idaho 83705

OCT 01 1991

RECEIVED
NOV 30 1990
Department of Water Resources
Western Regional Office

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

November _____, 1990

Dear Mr. Tuthill,

My name is Merle Hazen

My address is 2044 W Meridian Rd City Eagle St. Ida. Zip 83616

My well is approximately 120 feet deep and 60 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

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Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

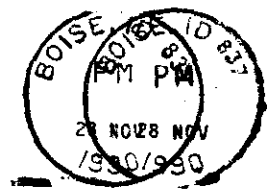
Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

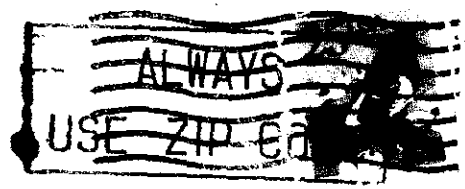
OCT 01 1991

Thank you for your consideration,

Merle Hazen
(Signature)

Gary Hazen
3577 W. Howling Feather Rd.
Eagle Idaho 83616





OCT 01 1991

David R. Luthill, Jr. P.E.
Manager, Western Regional Office
Dept of Water Resources
2735 Airport Way
Boise Idaho 83705

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 23, 1990

Dear Mr. Tuthill,

My name is William M. GORNIK

My address is 10943 Hwy 55 Boise City Idaho St. 83703 Zip

My well is approximately 180 feet deep and 19 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

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RECEIVED
OCT 01 1991

In addition to our domestic well, I am deeply concerned about the future reliability of our irrigation well of which we have a 1/7th interest (i.e Floating Feather Irrigation)

Thank you for your consideration,

William M. Gornik
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 30, 1990

Dear Mr. Tuthill,

~~My~~ Our name is Blair & Carolyn Hagerman

~~My~~ Our address is 10236 Prairie Rd City Boise St. ID Zip 83703

My well is approximately 185 feet deep and 20 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

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OCT 01 1991

Thank you for your consideration,

Blair Hagerman & Carolyn J Hagerman
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 30, 1990

Dear Mr. Tuthill,

My name is MIKE HAWKINS

My address is 9975 PRAIRIE RD City Boise St. Id Zip 83703

My well is approximately 260 feet deep and 10 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

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OCT 01 1991

Thank you for your consideration,

Mike Hawkins
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
NOV 29 1990
Department of Water Resources
Western Regional Office

November 27, 1990

Dear Mr. Tuthill,

My name is Gary M Hazen

My address is 3577 W Floating Feather Rd City Eagle St. Ida Zip 83616

My well is approximately 120 feet deep and 13 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

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OCT 01 199

Thank you for your consideration,

Gary M Hazen
(Signature)

DEWAIN E. GLUBAY
500 RENE
EAGLE, IDAHO 83616

BOISE, ID 837
1 PM
24 NOV
1990



OCT 01 1991

DAVID R, TUTHILL JR, P.E.
MANAGER, WESTERN REGIONAL OFFICE
DEPT. OF WATER RESOURCES
2735 AIR PORT WAY,
BOISE, IDAHO 83705

Jackson
9M Los Lucros
Eagle, ID 83616

BOISE, ID 837
P.M.
30 NOV
1990

IDAHO
ALWAYS
USE ZIP
USA 25 1890

OCT 01 1991

Mr. David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, ID 83705

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 30, 1990

Dear Mr. Tuthill,

My name is BARTON L. JACKSON

My address is 914 LOS LUCEROS DR. City EAGLE St: ID Zip 83616

My well is approximately 140 feet deep and 1 yr 3 mos. years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applican has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

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RECEIVED
OCT 01 1991

Thank you for your consideration,

Barton L. Jackson
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 30, 1990

Dear Mr. Tuthill,

My name is CARRIE E. JACKSON

My address is 914 LOS LUCEROS DR. City EAGLE St. ID Zip 83616

My well is approximately 140 feet deep and 1 yr. 3 mos. years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

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Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

Thank you for your consideration,

Carrie E Jackson
(Signature)

OCT 01 1991

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 28, 1990

Dear Mr. Tuthill,

My name is George L. Jensen and Carol Jensen

My address is 3065 E. Floating Feather Rd City Eagle St. Ida Zip 83616

My well is approximately 202' feet deep and ALMOST 10 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01 1991

Thank you for your consideration,

George L. Jensen; Carol Jensen
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 3, 1990

Dear Mr. Tuthill,

My name is Jack R Jensen

My address is 10101 Cayuse Ln City Boise St. Zip 83703

My well is approximately 165 feet deep and 20 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

The water situation in this area is the ~~major~~ major concern. We presently pump sand just irrigating my lawn, small garden and regular home use. I can't afford to drill dipper, which could happen if my well goes dry.

NOV 1 1991

Thank you for your consideration,

Jack R Jensen
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 30, 1990

Dear Mr. Tuthill,

My name is OTTO L. + BERYL A. JOHNSON

My address is 10030 PRAIRIE RD. City BOISE St. ID. Zip 83703

My well is approximately 246 feet deep and 11 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

We have had to drop our pump in our well 15 feet 2 years ago because of our low water table. Any further pumping is approved we feel it will cause us further problems.

Thank you for your consideration,

Otto L. Johnson Beryl A. Johnson
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 25, 1990

Dear Mr. Tuthill,

My name is Alice J. Jones & J. Kendall Jones

My address is 11154 Culdesac City Boise St Id Zip 83703

My well is approximately 285 feet deep and 20 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

Domestic water request too high.

The draw rate is too high

OCT 01 [illegible]

Thank you for your consideration,

Alice J. Jones J. K. Jones
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
NOV 30 1990
Department of Water Resources
Western Regional Office

November _____, 1990

Dear Mr. Tuthill,

My name is ED LAMBERT

My address is 10294 PRAIRIE RD City BOISE St. ID Zip 83703

My well is approximately 257 feet deep and 18 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01

Thank you for your consideration,

Ed Lambert
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
NOV 30 1990
Department of Water Resources
Western Regional Office

November 27, 1990

Dear Mr. Tuthill,

My name is George Loucks

My address is 2310 Madison Ave, Boise (City) Idaho (St.) 83702 (Zip)

My well is approximately 170 feet deep and 2 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

Trustee for Loucks estate in the SW^{4}NE^4 of Section 10 T4NR1E BM.
Original well drilled around 1925.

OCT 01 1991

Thank you for your consideration,

George Loucks
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 10 1990
Department of Water Resources
Western Regional Office

November 29, 1990

Dear Mr. Tuthill,

My name is Gary S. Lyons

My address is 2985 Hall Dr City Eagle St. ID Zip 83616

My well is approximately 220 feet deep and 1 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

Thank you for your consideration,

Gary S Lyons
(Signature)

RECEIVED
OCT 01 1991

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 30, 1990

Dear Mr. Tuthill,

My name is HUGH E. MASSIE MY WIFE IS SUZANNE MASSIE

My address is 10,000 PRAIRIE RD. City BOISE St. ID Zip 83703

My well is approximately 225 feet deep and 20 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

WHEN OUR WELL WAS DRILLED THE WATER TABLE WAS APPROX. 160 FT. IT IS NOW APPROX 210 FT.

Thank you for your consideration,

OCT 01 1991

Hugh E. Massie Suzanne Massie
(Signature)

RECEIVED
DEC 05 1990
Department of Water Resources
Western Regional Office

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

November 28, 1990

Dear Mr. Tuthill,

My name is KARL AND KAY MAURITZ

My address is 2471 E. FLOATING FEATHER City EAGLE St. ID Zip 83616

My well is approximately 200 feet deep and 22 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01 1991

Thank you for your consideration,

Kay Mauritz Karl H Mauritz
(Signature)

2310 Madison Ave.
Boise, Idaho 83702

BOISE, ID 837
1 PM
29 NOV
1990

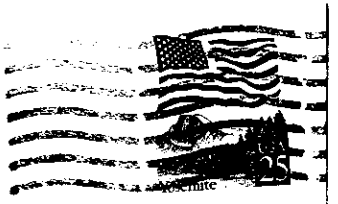


OCT 01 1991

David R. Tuthill, Jr., PE
Manager, Western Regional Office
Dept of Water Resources
2735 Airport Way
Boise, Idaho 83705

MAHAFFEY
2471E, Floating Feather
Eagle, ID 83616

BOISE, ID 837
PM
4 DEC
1990



OCT 01 1991

David R. Tuthill Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 23, 1990

Dear Mr. Tuthill,

My name is Howard Maxwell

My address is 10895 Hwy 55 City Boise St. ID Zip 83703

My well is approximately 150 feet deep and 20 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

Thank you for your consideration,

OCT 01 1991

R. Howard Maxwell
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources

RECEIVED
DEC 04 1990
Department of Water Resources
Western Regional Office

November 29, 1990

Dear Mr. Tuthill,

My name is Richard E Marin

My address is 2500 Rocket Ave City Eagle St. Id Zip

My well is approximately 146 feet deep and 4 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01

Thank you for your consideration,

Richard E Marin
(Signature)

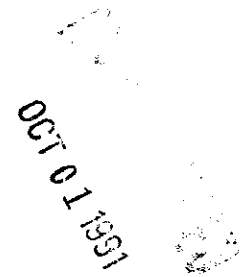
BOISE, ID 837
PM
30 NOV
1990



Dept of Water Resources
Statehouse Mail
Boise, Idaho 83720

OCT 01 1991

RICHARD E. MEIERS
8220 Northview
Boise, Idaho 83704



David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 30, 1990

Dear Mr. Tuthill,

My name is RICHARD L. MINCER

My address is 10955 RUNWAY DRIVE City BOISE St. ID Zip 83705

My well is approximately 240 feet deep and 13 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01 1991

Thank you for your consideration,

Richard L Mincer
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 30, 1990

Dear Mr. Tuthill,

My name is C. F. Moore

My address is 10455 Prairie Rd City Boise St. Ida Zip 8370[illegible]

My well is approximately [illegible] feet deep and 1962 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01 1991

Thank you for your consideration,

Mrs. C. F. Moore
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
NOV 27 1990
Department of Water Resources
Western Regional Office

November 27, 1990

Dear Mr. Tuthill,

My name is William W. and Helen S. Pardew
My address is P.O. Box 699 (2385 E. Floating Feather Rd.) City Eagle St. Id. Zip 83616

My well is approximately 118 feet deep and 63 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01

Thank you for your consideration,

William W. Pardew, P.E., Helen S. Pardew
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 28, 1990

Dear Mr. Tuthill,

My name is F. L. (Ted) Persons

My address is 11133 Horseshoe Bend Road City Boise St. Id Zip 83703

My well is approximately 154' feet deep and 36 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

Thank you for your consideration,

F. L. Persons
(Signature)

RECEIVED
NOV 30 1990
Department of Water Resources
Western Regional Office

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

November 28, 1990

Dear Mr. Tuthill,

~~My~~ OUR name is GERALD & CATHERINE RENFRO

~~My~~ OUR address is 10735 HORSESHOE BEND RD. City BOISE St. ID Zip 83703

My well is approximately 134 ft feet deep and 15 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

FILED
OCT 0 1991

Thank you for your consideration,

Jerry Renfro & Catherine Renfro
(Signature)

BOISE, ID 837
PM
29 NOV
1990

U.S. POSTAL SERVICE
OFFICIAL SPONSOR
1992 OLYMPIC



USA 25 1890

OCT 0 1 1991

DAVID R. TUTHILL, JR.,P.E.
MANAGER, WESTERN REGIONAL OFFICE
DEPARTMENT OF WATER RESOURCES
2735 AIRPORT WAY
BOISE, IDAHO 83705

GERALD RENFRO
10735 HORSESHOE BEND RD.
BOISE, IDAHO 83703

OCT 01 1991

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 30, 1990

Dear Mr. Tuthill,

My name is Monte and Suzanne Riley

My address is 10357 Prairie Rd City Boise St. Id Zip 83703

My well is approximately 180 feet deep and 12 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01 1991

Thank you for your consideration,

Suzanne Riley
(Signature)
Monte Riley

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
NOV 30 1990
Department of Water Resources
Western Regional Office

November 29, 1990

Dear Mr. Tuthill,

My name is Robert A. Rewen

My address is 222 Roostr Dr. City Eagle St. Id. Zip 83616

My well is approximately 100 feet deep and 10 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

Projects of this size must be restricted to city water & Sewer. or the density should be reduced to 3-5 acres per residence

OCT 01 1

Thank you for your consideration,

Robert A. Rewen
(Signature)

Mr. & Mrs. Robert Rowen
222 Rooster Drive
Eagle, Idaho 83616

BOISE, ID 837
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29 NOV
1990

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1992 OLYMPIC

OCT 0 1 1991

David R. Tuthill, Jr., P.E.
Manager, Western Regional office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 28, 1990

Mr. David R. Tuthill, Jr., P.E.
Manager Western Region Office
DEPARTMENT OF WATER RESOURCES
2735 Airport Way
Boise, Idaho 83705

Dear Mr. Tuthill,

Our names are Don & Janet Rydman and we live at 8999 Prairie Rd, Boise, Idaho 83703.

Our well is approximately 450 feet deep and 15 years of age.

We wish to formally protest the application for Permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

We feel that it will interfere with our water rights.

We feel it is not in the public interest and may cause hardship to present landowners.

We feel the 2.0 CFS amount if irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 1.11 CFS. Domestic use should remain at 1.00 CFS. The total diversion should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line if Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc.

OCT 01 1991

application, if approved, be subject to the same conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

Thank you for your consideration

Don & Janet Rydman

OCT 01 1991

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 30, 1990

Dear Mr. Tuthill,

My name is Dan Schill

My address is 9950 Prairie City Boise St. ID Zip 83703

My well is approximately 220 feet deep and 10 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicat has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Featner Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

RECEIVED
OCT 01 1991

Thank you for your consideration,

Daniel J Schill
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
NOV 28 1990
Department of Water Resources
Western Regional Office

November 26, 1990

Dear Mr. Tuthill,

My name is Louis C. Siron III

My address is 10374 Prairie Rd City Boise St. Ida Zip 8370

My well is approximately 220 feet deep and 18 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

I Live About 1/4 mile To the East of the proposed well site. I oppose this well personally because of the possible water table problems this well could cause me

OCT 0 1 19

Thank you for your consideration,

Louis C. Siron III
(Signature)

10374 Prairie Rd
Boise Idaho 83703

OCT 01 1991

BOISE, ID 837
PM
27 NOV
1990

ALWAYS
ISE ZIP CODE
US 25
Yosemite

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Dept. of Water Resources
2735 Airport Way
Boise, Idaho 83705

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 30, 1990

Dear Mr. Tuthill,

My name is Steve & Ruby Smith

My address is 10029 Prairie Rd. City Boise St. Id Zip 83703

My well is approximately 260 feet deep and 18 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01 1991

Thank you for your consideration,

(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 30, 1990

Dear Mr. Tuthill,

My name is Bunny Snideker

My address is 9780 Prairie Rd City Boise St Id 83703 Zip

My well is approximately 330 feet deep and 10 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicar has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Featner Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01 1991

Thank you for your consideration,

Bunny Snideker
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 30, 1990

Dear Mr. Tuthill,

My name is Knight & Rhonda Stanley

My address is 11067 Culdesac Way City Boise St. ID 83703 Zip

My well is approximately _____ feet deep and 17 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicar has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT

Thank you for your consideration,

Rhonda L Stanley, Knight D Stanley
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
NOV 29 1990
Department of Water Resources
Western Regional Office

November 28, 1990

Dear Mr. Tuthill,

My name is E.F. STARK

My address is 133 ROOSTER DR. City EAGLE, IDAHO Zip 83616

My well is approximately 55-60 feet deep and 11-12 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT

Thank you for your consideration,

E.F. Stark

(Signature)

E. J. Stark
133 Rooster Drive
Eagle, Idaho 83616

BOISE, ID 837
PM
28 NOV
1990



OCT 01 1991

Mr. David R. Tuthill Jr P.E.
Manager Water Rights Office.
Dept of Water Resources
2735 Airport Way
Boise, Idaho, 83705

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 26, 1990

Dear Mr. Tuthill,

My name is Robert and Sondra Strain

My address is 11029 Runway Drive City Boise St. Id. Zip 83703

My well is approximately 280 feet deep and 13 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

The water level of our well has dropped significantly in recent years, and the quality has deteriorated to the point we now have to install a complete filtering and conditioning system, as have most of our neighbors already. With the long past history of very severe water problems on record in this area please take this into serious consideration in your assessment of this request.

Thank you for your consideration,

RECEIVED
OCT 01 1991

Robert L. Strain
(Signature)
Sondra L. Strain

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
NOV 30 1990
Department of Water Resources
Western Regional Office

November 29, 1990

Dear Mr. Tuthill,

My name is Dennis Sutherland

My address is 11036 Runway Dr City Boise St. 83703 Zip

My well is approximately 185 feet deep and 13 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

Thank you for your consideration,

D Sutherland
(Signature)

OCT 01 1991

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
NOV 27 1990
Department of Water Resources
Western Regional Office

November 24, 1990

Dear Mr. Tuthill,

My name is L. H. Sutherland

My address is 2425 E. Floaty Feather City Eagle St. 83616 Zip

My well is approximately 289 feet deep and 26 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

Thank you for your consideration,

L. H. Sutherland
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
NOV 30 1990
Department of Water Resources
Western Regional Office

November 29, 1990

Dear Mr. Tuthill,

My name is Sharyn K. Sutherland

My address is 1103 E Runway Dr. City Boise St. Zip 83703

My well is approximately 185 feet deep and 15? years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

Thank you for your consideration,

Sharyn K. Sutherland
(Signature)

OCT 01 1991

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 28, 1990

Dear Mr. Tuthill,

My name is DONALD R. THOMAS

My address is 10230 CAYUSE LN. City BOISE Id. St. 83703 Zip

My well is approximately 220 feet deep and 8 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

Thank you for your consideration,

Donald R. Thomas
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 30, 1990

Dear Mr. Tuthill,

My name is Harry & Leona Vogt

My address is 3734 W Beacon St Rd City Eagle St. ID Zip 83616

My well is approximately _____ feet deep and _____ years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 31 1991

Thank you for your consideration,

Leona E. Vogt Harry A Vogt
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 03 1990
Department of Water Resources
Western Regional Office

November 28, 1990

Dear Mr. Tuthill,

My name is Mrs C. B. Weber

My address is 11053 Horseshoe Bd Rd City Boise St 83705 Zip

My well is approximately 185 feet deep and 40 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights. yes

I feel it is not in the public interest and may cause hardship to present landowners. yes

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation. yes

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS. yes

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

I feel that until any of these applications which is appleded for should be denied, until they can bring water & Sewer from elsewhere.

Thank you for your consideration,

Mr & Mrs C B Weber
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
DEC 12 1990
Department of Water Resources
Western Regional Office

November 28, 1990

Dear Mr. Tuthill,

My name is Philip D. Whitener

My address is 198 Rooster Dr City Eagle, Id St. 83616 Zip

My well is approximately 52' feet deep and 6 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 01 1991

Thank you for your consideration,

Philip D. Whitener
(Signature)

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

RECEIVED
NOV 26 1990
Department of Water Resources
Western Regional Office

November 21, 1990

Dear Mr. Tuthill,

My name is NEIL D. WILTON

My address is 632 N. EDGEWOOD LANE City EAGLE St ID Zip 83616

My well is approximately 85 feet deep and 25 years of age.

I wish to formally protest the application for permit #63-11413, applicant Floating Feather Hills, Inc., for the following reasons.

I feel it will interfere with my water rights.

I feel it is not in the public interest and may cause hardship to present landowners.

I feel the 2.0 CFS amount of irrigation water requested is a duplication of water rights. This property has 4.08 CFS (204") of Boise River Jacobs No. 2 irrigation water right delivered by the Farmers Union Ditch Canal. Floating Feather Hills Inc. would be needlessly pumping well water for irrigation.

The applicant has requested 2.0 CFS for fire protection which is 898 gpm. The Eagle Fire Department and Ada County require only 500 gpm. The applicant has requested an excess of 398 gpm or .89 CFS. The requested amount should be reduced to 1.11 CFS for fire protection.

Considering the above corrected amounts for irrigation and fire protection the total diversion on the application should be changed to 2.11 CFS.

Floating Feather Hills, Inc. property lies west of the Treasure Valley Village, California Ltd. Partnership planned mobile home park. S & H Farms is adjacent to the northwest property line of Floating Feather Hills, Inc. It is requested that the Floating Feather Hills, Inc. application, if approved, be subject to the conditions ordered for permit #63-10373, applicant Treasure Valley Village, California Ltd. Partnership, to help alleviate the above concerns in this protest.

OCT 2 1990

To my knowledge a groundwater impact study has never been made for proposed developments in this area. My water supply is a domestic well and could be threatened by any groundwater development. I oppose the development, and urge denial of any permit until a study is made.

Thank you for your consideration,

Neil D Wilton Susan F Wilton
(Signature)

NEIL D. KLICTON
632 N. EDGEWOOD LANE
EAGLE, IDAHO 83616

BOISE ID
23 NOV

MR. DAVID R. TOTHILL
MANAGER, WESTERN REGIONAL OFFICE
DEPARTMENT OF WATER RESOURCES
2735 AIRPORT WAY
BOISE, IDAHO 83705

OCT 01 1991

IDAHO DEPARMENT OF WATER RESOURCES
2735 Airport Way, Boise, ID 83705

Re: Floating Feather Hills, Inc. #63-11413

Place: J.R. Williams Bldg., 700 W. State, Boise, ID

Date: January 24, 1991, at 7:30 p.m.

Meeting Conducted By: David R. Tuthill, Jr.

ROSTER OF ATTENDANCE

Name	Address	Representing
A. L. Pearson	11133 Hwy 55	Self.
Neil R. Willis	632 N. Eldorado Ln	Self & family
Dan Schill	9950 Prairie	Self & Pearson
Spencer Wood	BSU Geology Dept.	BSU
Sheila Chapman	410 S Orchard Boise	Applicant
Diane Anderson	835 Lobelia Ave	Self
Billie L. Day	11034 Culdesac Way	Self
Robert C. Day	11034 Culdesac Way	Self
Jane Chamberlain	10237 Prairie Rd	Self
Cindy Chamberlain	10237 Prairie Rd	Self
Tony Koonley	2301 Sacket	" "
Rich Whitcomb	10955 Runway	Self.

Place all future
Papers in file 3 of 3.

OCT 0 1 1991

IDAHO DEPARMENT OF WATER RESOURCES
2735 Airport Way, Boise, ID 83705

Re: Floating Feather Hills, Inc. #63-11413

Place: J.R. Williams Bldg., 700 W. State, Boise, ID

Date: January 24, 1991, at 7:30 p.m.

Meeting Conducted By: David R. Tuthill, Jr.

ROSTER OF ATTENDANCE

Name	Address	Representing
Lou Siron	10374 Prairie Rd Boise	same
Ken Moore	10455 Prairie	Self
Helen Pardew	P.O. Box 699, Eagle	self
Bill Pardew	" "	"
Dennis Whitmore	4835 Lake Park Place	✓
Georgia Mackley	Bank Drive	✓
Lynn Maxwell	10895 Hwy 55, Boise	✓
Howard Maxwell	" " " "	Self
Janet Elliott	329 Dicky Dr.	Self
Frank Elliott	"	"
Dennis J. Sutherland	11036 Runway Dr.	Self
Terry Loftus	216 Rene Pl Eagle	Evans Heath Corp & Self
Otto T. Johnson	10030 Prairie Rd. Boise	Self
Suzanne I. Massie	10,000 Prairie Rd Boise	Self
Hugh E. Massie	" " "	"
Kay Mamitz	2471 E. Floating Feather Eagle	Self
Karl H Mamitz	2471 E Floating Feather Eagle	Self
Dave Roylance	4227 Emerald	Floating Feather Inc
David K. Allen	813 N Eagle Rd	Eagle ✓
James Stuckle	200 Parkwood Dr.	Boi. Self
Eleanor Chase	700 W. Floating Feather Rd. Eagle	Self
Sondra Strayer	11029 Runway Dr.	self
Robert L. Strayer	11029 Runway Dr	self
Mike Hanlin	9975 Prairie Rd	Self
Steven Smith	10029 Prairie Rd	Self
Day [illegible]	8999 Prairie	Self
Bill Guhrke	2927 Starview Dr	Self
Suzanne Riley	10351 Prairie Rd	Self
Carol Jensen	3265 Floating Feather Rd	Self
George Jensen	" " " "	Self

all transparencies
have been
filmed.

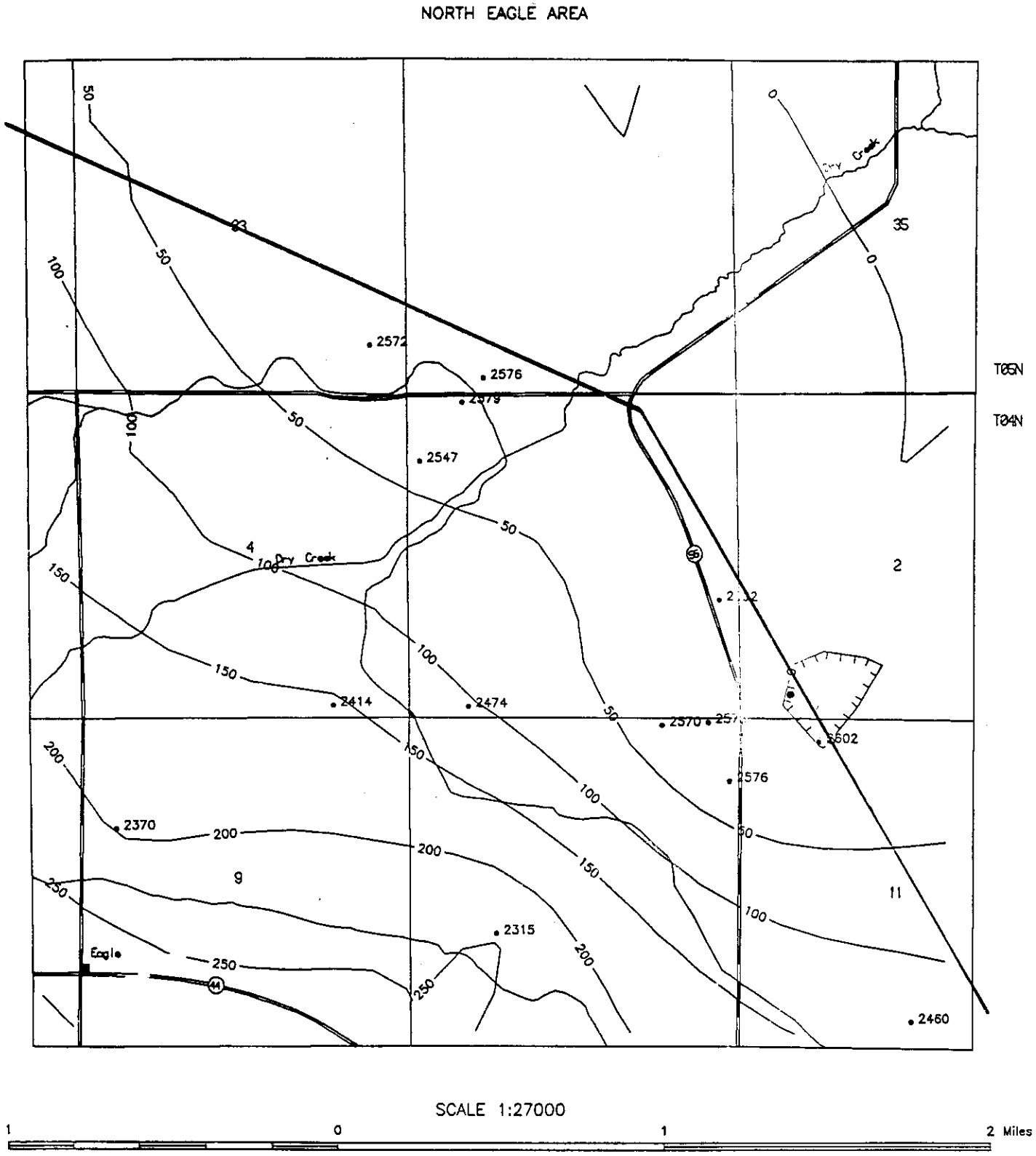


Figure 4. COMPUTED SATURATED THICKNESS OF MODEL LAYER 1, MARCH 1989

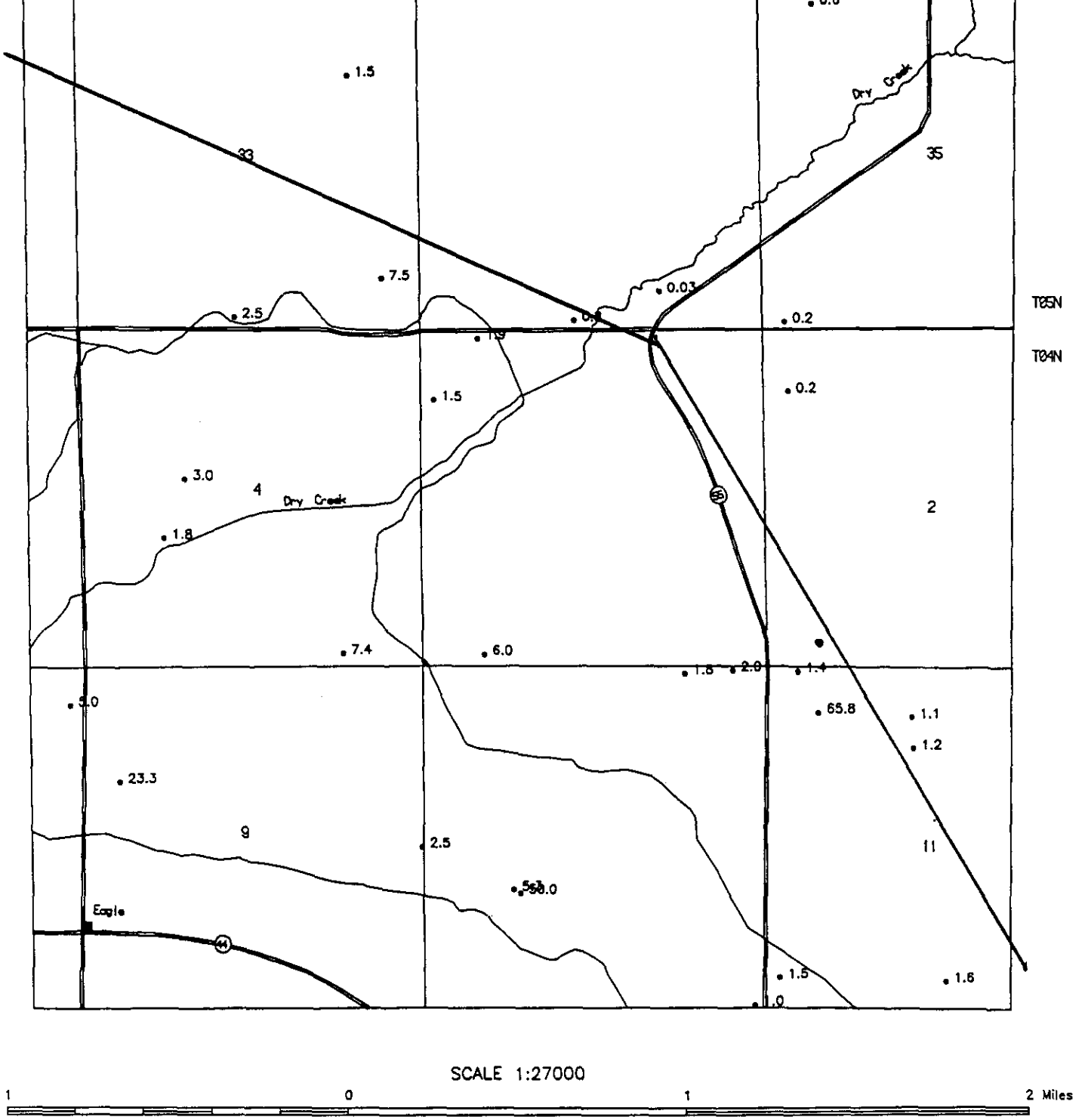


Figure 3. MAP SHOWING SPECIFIC CAPACITIES OF INVENTORIED WELLS

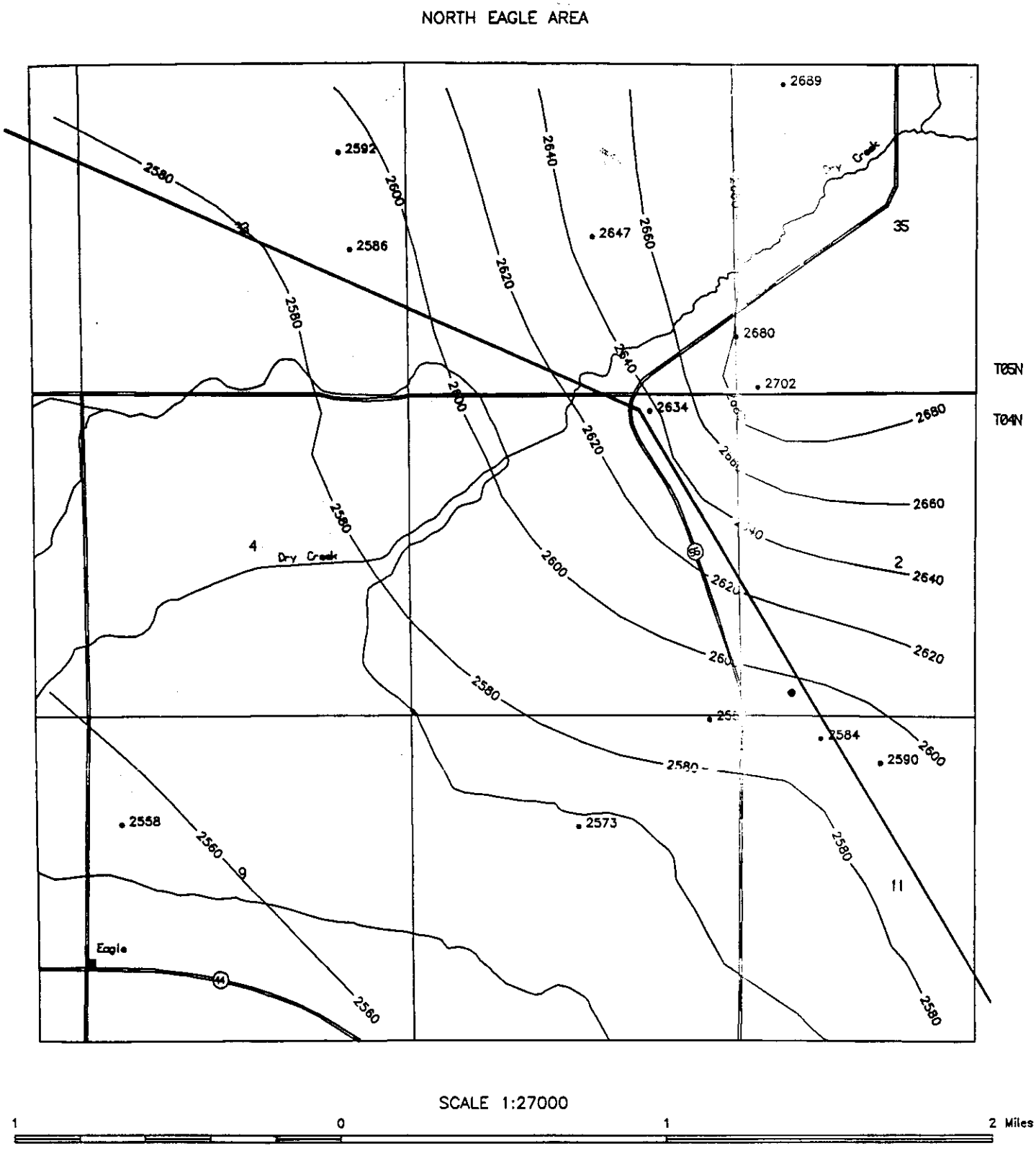


Figure 2. WATER-LEVEL ELEVATION FOR MODEL LAYER 2, MARCH 1989

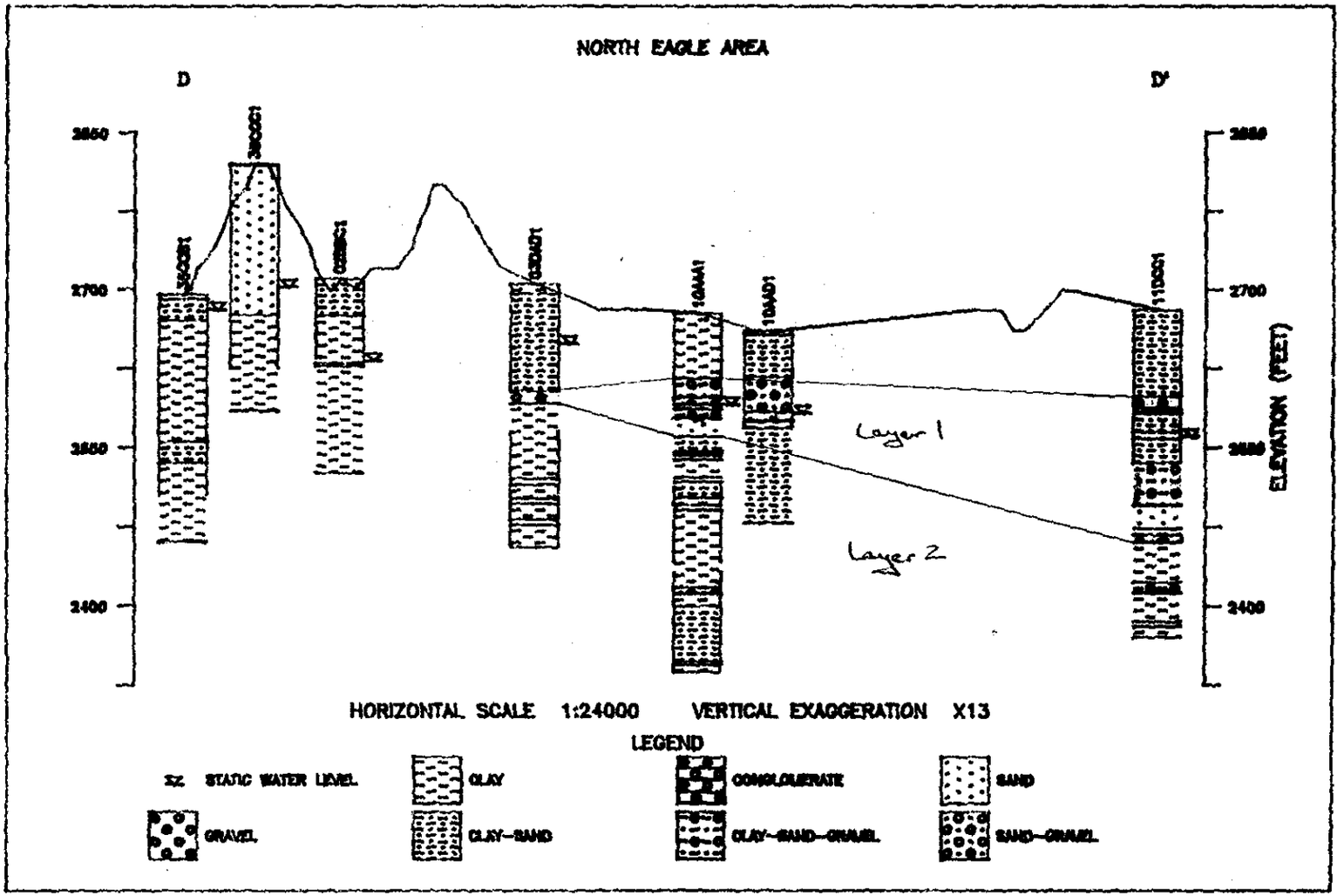


Figure 4. GEOLOGIC CROSS SECTION: D – D'

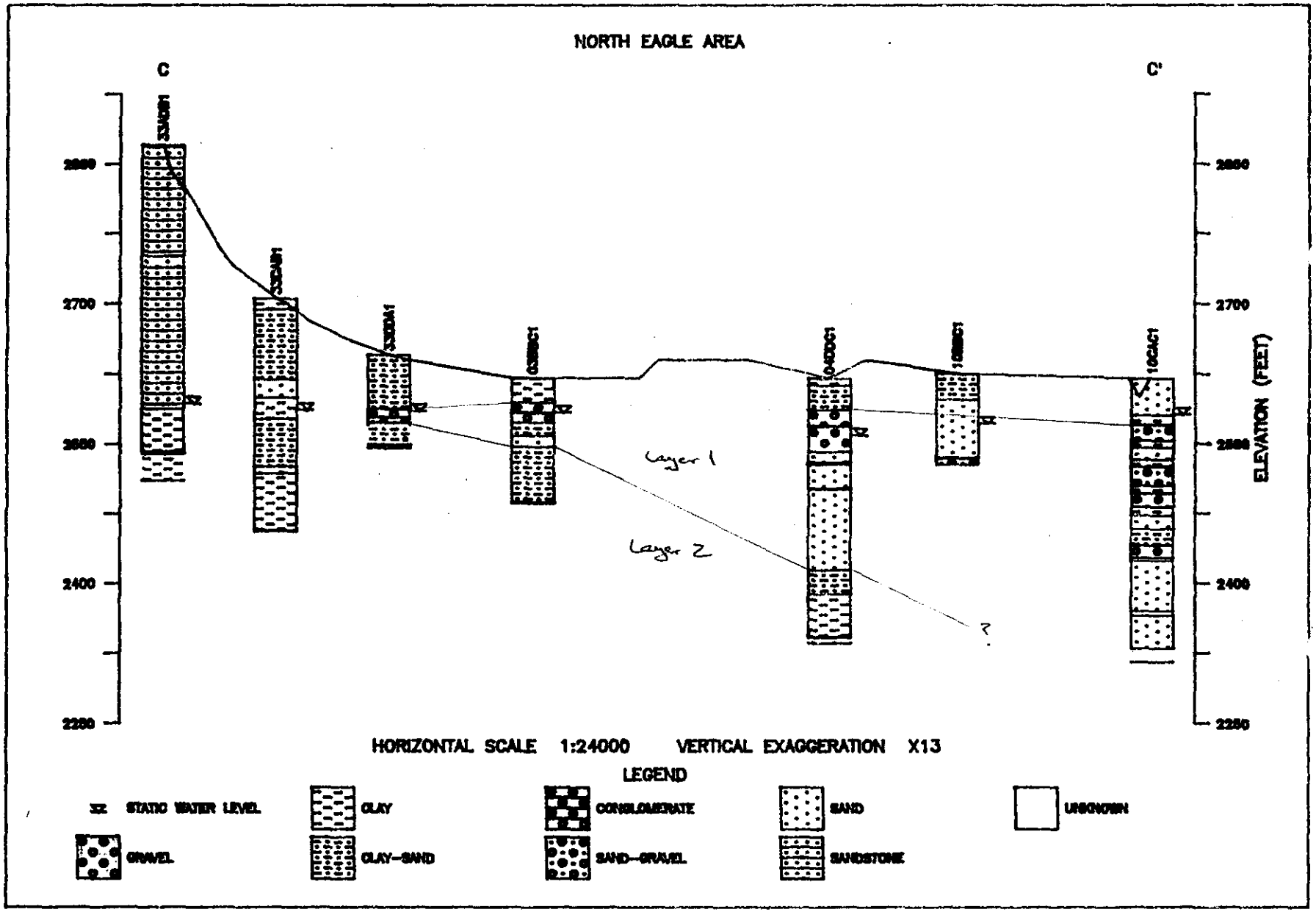


Figure 3. GEOLOGIC CROSS SECTION: C — C'

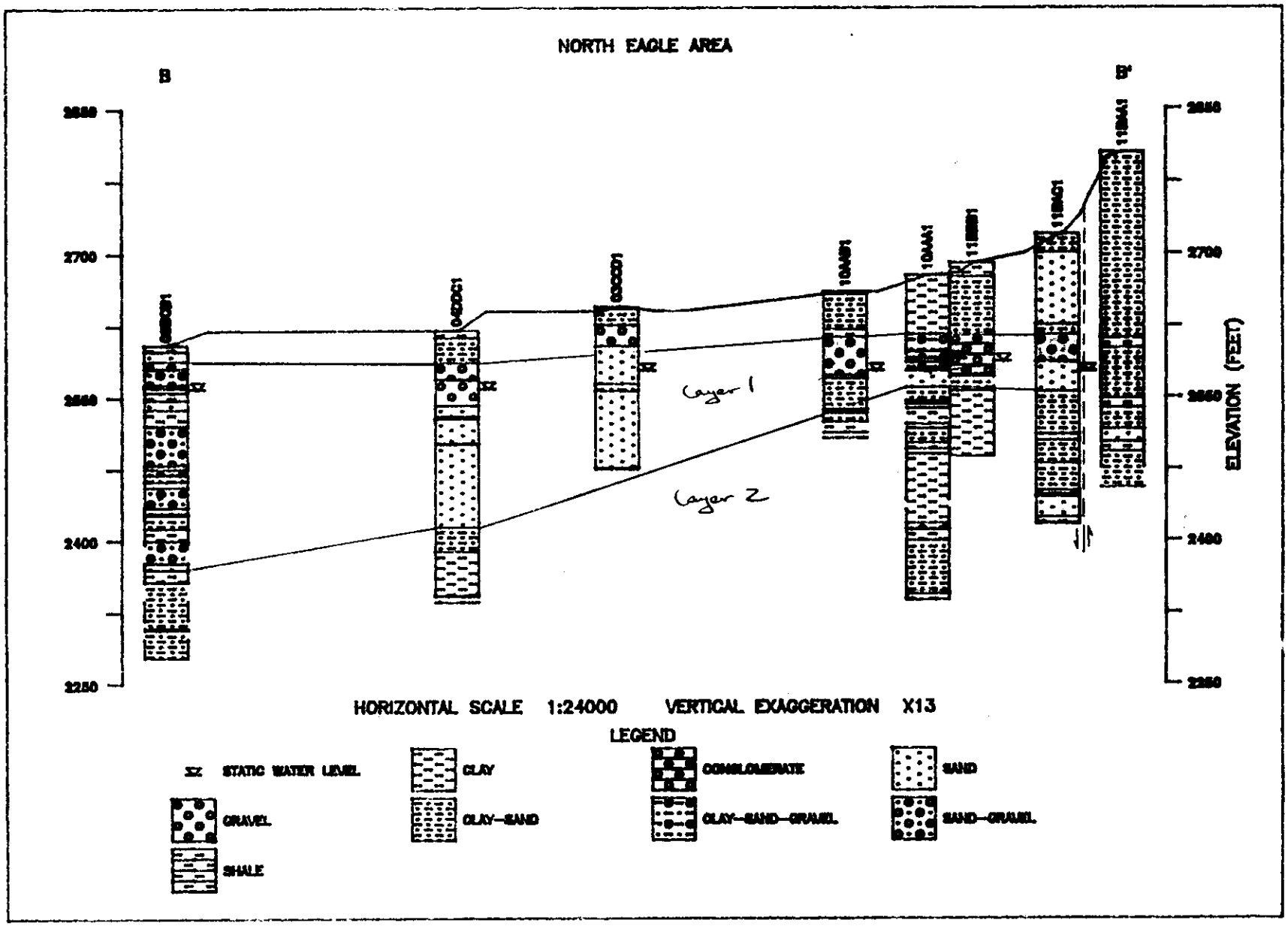


Figure 2. GEOLOGIC CROSS SECTION: B – B'

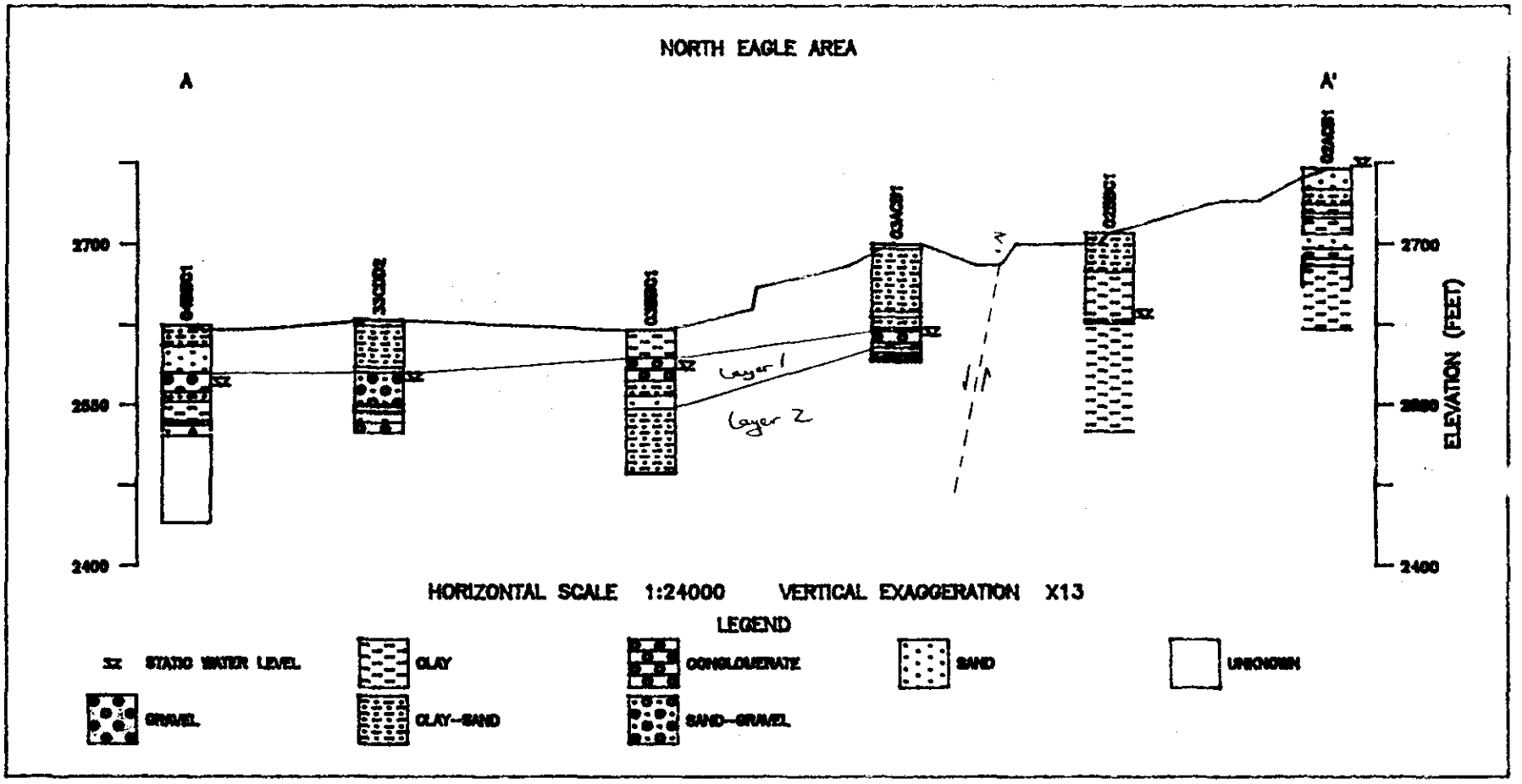


Figure 1. GEOLOGIC CROSS SECTION: A – A'

1. Will the proposed use reduce the quantity of water under existing water rights?

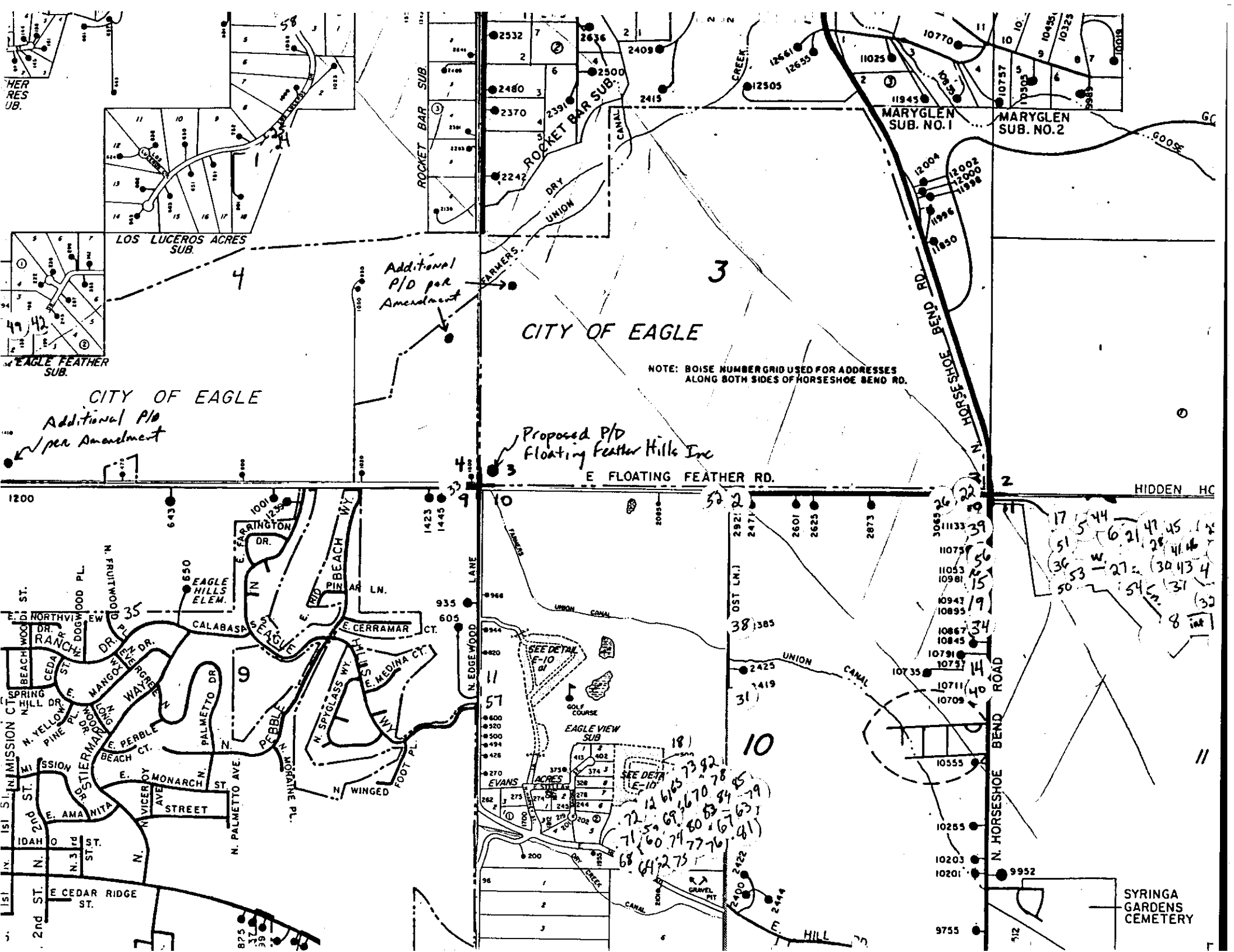
2. Is the proposed water supply insufficient for the purposes intended?

3. Is the application made in good faith or for delay or speculative purposes?

4. Has the applicant sufficient financial resources with which to complete the project?

5. Will the proposed use under this permit conflict with the local public interest?

6. Will the proposed use be contrary to conservation of water resources within the state of Idaho?


LOS LUCEROS ACRES SUB.
EAGLE FEATHER SUB.
ROCKET BAR SUB
CANAL
DRY CREEK
UNION
FARMERS
MARYGLEN SUB. NO. 1
MARYGLEN SUB. NO. 2
GOOSE
HORSESHOE BEND RD.
N. HORSESHOE BEND ROAD
CITY OF EAGLE
Additional P/O per Amendment
Additional P/O per Amendment
Proposed P/D Floating Feather Hills Inc
NOTE: BOISE NUMBER GRID USED FOR ADDRESSES ALONG BOTH SIDES OF HORSESHOE BEND RD.
E FLOATING FEATHER RD.
HIDDEN HC
EAGLE HILLS ELEM.
E. FARRINGTON DR.
N. FRUITWOOD PL.
N. BEACH PINAR LN.
E. CERRAMAR CT.
E. MEDINA CT.
N. SPYGLASS WY.
N. EDGEWOOD LANE
CALABASAS
RANCH DR.
E. MANGO WAY
N. YELLOW PINE PL.
E. PEBBLE BEACH CT.
PALMETTO DR.
N. PEBBLE
N. MORAINE PL.
N. WINGED FOOT PL.
E. MONARCH ST.
E. AMANITA STREET
N. VICEROY AVE.
N. PALMETTO AVE.
N. MISSION CT.
N. 2nd ST.
E CEDAR RIDGE ST.
IDAHO ST.
SEE DETAIL E-10 a
SEE DETAIL E-10
GOLF COURSE
EAGLE VIEW SUB
EVANS ACRES
GRAVEL PIT
UNION CANAL
E. HILL
SYRINGA GARDENS CEMETERY
1
2
3
4
9
10
11

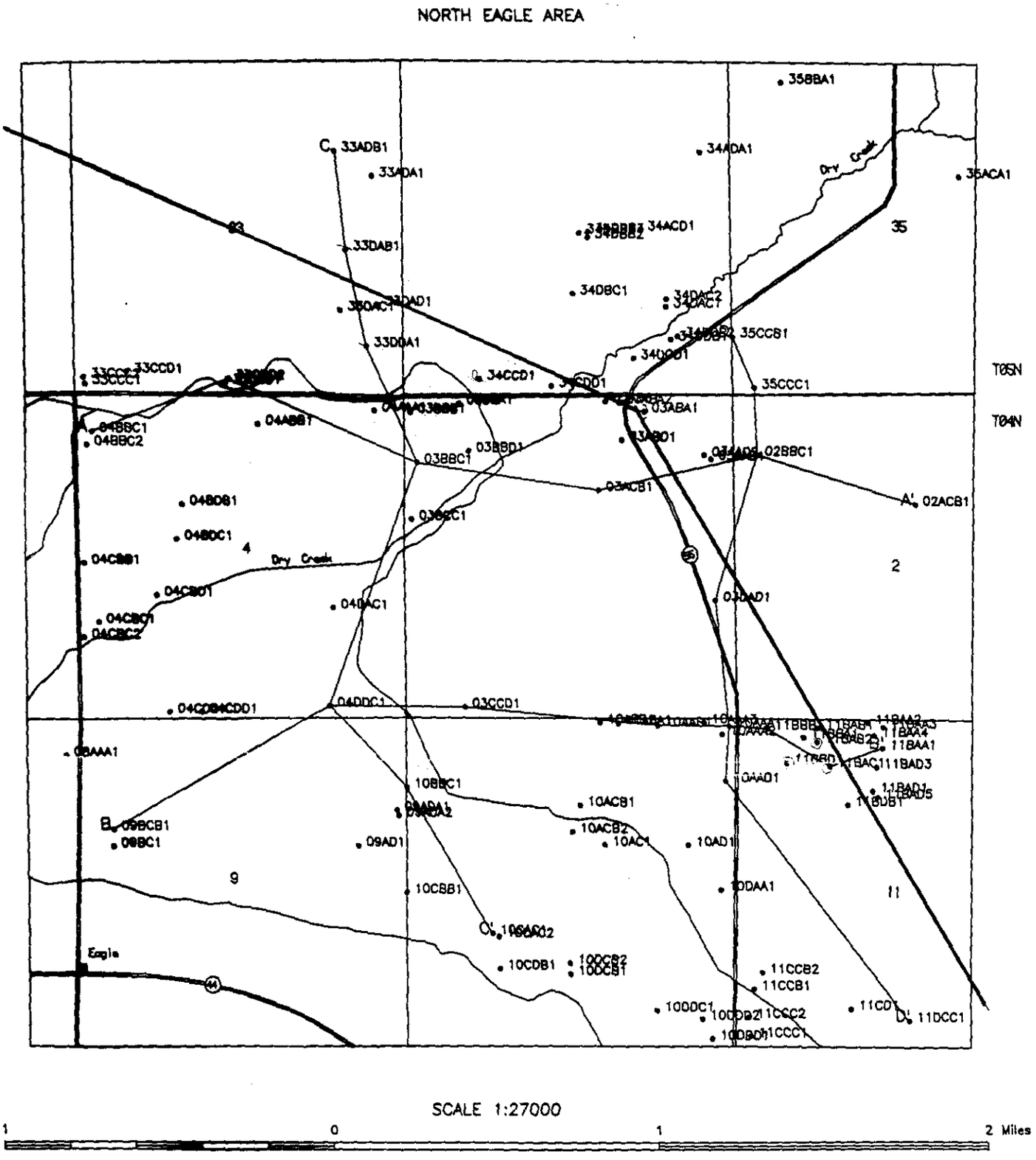


Figure 1. MAP SHOWING LOCATIONS OF INVENTORIED WELLS

BEFORE THE DEPARTMENT OF WATER RESOURCES

OF THE

STATE OF IDAHO

IN THE MATTER OF APPLICATION FOR PERMIT NO. 63-11413 IN THE NAME OF FLOATING FEATHER HILLS, INC.	NOTICE OF MEETING

On October 23, 1990, Floating Feather Hills, Inc. filed with the Department of Water Resources an application for permit to appropriate the public waters of the State of Idaho. The application was protested by the parties on the attached list.

The Department has set the matter of protest for a meeting on Thursday, January 24, 1991 at 7:30 p.m. at the Joe R. Williams Bldg, (Hall of Mirrors) East Conference Room, 700 W. State St., Boise, Idaho 83706. The objectives of this meeting are for (1) the applicant to acquaint the protestants regarding the proposed project and proposed aquifer studies, (2) the Department to present information regarding the geology and groundwater aquifers in the vicinity of the proposed diversion, and (3) the protestants to identify their concerns. Opportunity shall be afforded parties to respond and present information and argument on the issues involved to the maximum extent practicable. This meeting is for informational purposes and will not take the place of the formal hearing, which is anticipated to be held later this year.

Dated this 10th day of January, 1991.

David R. Tuthill Jr.

DAVID R. TUTHILL, JR., P. E.
Manager, Western Regional Office

OCT 01 1991

I hereby certify that on the 10th day of January, 1991, I mailed a true and correct copy, postage prepaid, of this document to the applicant(s) and protestant(s) listed:

Sue Taylor
Secretary

Richard & Diane Anderson
Marcia Beckwith
Robert E. Beckwith
John Beggrow
Nina L. Blan
Leann M. Boyce
William L. Blan
D.C. Boyer
Mike & Sylvia Boyle
Larry & Virginia Brunette
Neal Bryson
Steve & Anne Caron
C.A. & Roberta Carpenter
Clifford D. Chambers
Shirley Chambers
Eleanor I. Chase
Jan & Walt Costello
Evelyn M. Creelman
Curt Crosby
Merville Cushing
Roger & Elaine Darnell
Robert C. Day
Robert DeShazo, Jr.
Eagle Water Corp.
John F. & Kathy Dutcher
Rod W. Eisele
Frank & Janet Elliot
Evans Water Association
Tommy L. Eyton
Farrell F. Ferguison
Debbie Fielding
Carole Fivecoat
Cliff Fivecoat
Cindy & Jose Franca
A. Daniel Freiberg
Dewain Glubay
William M. Gornik
Blair & Carolyn Hagerman
Steve & Carolyn Haughton
Mike Hawkins
David Haworth
Gary M. Hazen
Merle Hazen
Dana Hofstetter
Barton L. Jackson

Carrie E. Jackson
George & Carol Jensen
Jack R. Jensen
Otto L. & Beryl A. Johnson
Alice & Wendell Jones
Larry Koomler
Ray Kreps
Ed Lambert
Steve & Jeannie Lenon
George Loucks
Gary S. Lyons
Hugh & Suzanne Massie
Jeff Mattoon
Karl & Kay Mauritz
Howard Maxwell
Richard E. Meiers
Richard L. Mincer
C.K. Moore
Beth Olson
William & Helen Pardew
F.L. Persons
Alice Plecker
Gerald & Catherine Renfro
Monte & Suzanne Riley
Rhonda Roberts
Donald & Priscilla Rogers
Robert A. Rowen
Don & Janet Rydman
Dan Schill
Louis C. Siron, III
Steve & Ruby Smith
Beverly Snediker
Knight & Rhonda Stanley
E.F. Stark
Robert & Sondra Strain
Dennis Sutherland
S.H. Sutherland
Sharyn K. Sutherland
Donald R. Thomas
Harry & Leona Vogt
Thurman & Annemarie Wardlow
Mrs. C.B. Weber
Philip D. Whitener
Neil D. Wilton
Jene & Steve Yundt

OCT 01

FLOATING FEATHER HILLS, INC.
2417 Banks Dr.
Suite 101
Boise, ID 83705

PROTESTANTS

Richard & Diane Anderson
Marcia Beckwith
Robert E. Beckwith
John Beggrow
Nina L. Blan
Leann M. Boyce
William L. Blan
D.C. Boyer
Mike & Sylvia Boyle
Larry & Virginia Brunette
Neal Bryson
Steve & Anne Caron
C.A. & Roberta Carpenter
Clifford D. Chambers
Shirley Chambers
Eleanor I. Chase
Jan & Walt Costello
Evelyn M. Creelman
Curt Crosby
Merville Cushing
Roger & Elaine Darnell
Robert C. Day
Robert DeShazo, Jr.
Eagle Water Corp.
John F. & Kathy Dutcher
Rod W. Eisele
Frank & Janet Elliot
Evans Water Association
Tommy L. Eyton
Farrell F. Ferguison
Debbie Fielding
Carole Fivecoat
Cliff Fivecoat
Cindy & Jose Franca
A. Daniel Freiberg
Dewain Glubay
William M. Gornik
Blair & Carolyn Hagerman
Steve & Carolyn Haughton
Mike Hawkins
David Haworth
Gary M. Hazen

OCT 01 1991

Merle Hazen
Dana Hofstetter
Barton L. Jackson
Carrie E. Jackson
George & Carol Jensen
Jack R. Jensen
Otto L. & Beryl A. Johnson
Alice & Wendell Jones
Larry Koomler
Ray Kreps
Ed Lambert
Steve & Jeannie Lenon
George Loucks
Gary S. Lyons
Hugh & Suzanne Massie
Jeff Mattoon
Karl & Kay Mauritz
Howard Maxwell
Richard E. Meiers
Richard L. Mincer
C.K. Moore
Beth Olson
William & Helen Pardew
F.L. Persons
Alice Plecker
Gerald & Catherine Renfro
Monte & Suzanne Riley
Rhonda Roberts
Donald & Priscilla Rogers
Robert A. Rowen
Don & Janet Rydman
Dan Schill
Louis C. Siron, III
Steve & Ruby Smith
Beverly Snediker
Knight & Rhonda Stanley
E.F. Stark
Robert & Sondra Strain
Dennis Sutherland
S.H. Sutherland
Sharyn K. Sutherland
Donald R. Thomas
Harry & Leona Vogt
Thurman & Annemarie Wardlow
Mrs. C.B. Weber
Philip D. Whitener
Neil D. Wilton
Jene & Steve Yundt

CONVERSATION MEMORANDUM

DATE 1/24/91

FILE 63-11413

NAME OF PARTY Georgia Markley, Admin Assistant

EMPLOYEE Steve Lester

RE:

Called to request copy of map showing location of protestants. She or someone else will stop by today to get this.

Also, a new address should be used. Georgia M. is an admin. assistant for Homero, the president of which is a partner in Floating Feather Hills Ave. The partnership has a new office:

F. F. Hills Inc.
2417 Banks Dr. Suite 101
Boise 83705 343-6500

She also mentioned that applicant did not receive a mailed copy of the notice of meeting for 1/24/91. However, a copy of this was faxed to Georgia yesterday from this office.

↑

ADDRESS & PHONE CHANGE FOR FLOATING FEATHER HILLS INC.

OCT

Floating Feather file Dev

RECEIVED
JAN 07 1991
Department of Water Resources

CITY OF EAGLE
P.O. BOX 477
EAGLE IDAHO 83616

TRANSMITTAL DATE: JANUARY 4, 1991

******PLANNING AND ZONING MEETING DATE: JANUARY 28, 1991**

******EAGLE CITY COUNCIL MEETING DATE: FEBRUARY 26, 1991**

TO:

ADA COUNTY ASSESSOR
ADA COUNTY ENGINEER
ADA COUNTY HIGHWAY
CENTRAL DISTRICT HEALTH
EAGLE SEWER DISTRICT
IDAHO STATE TRANSPORTATION DEPARTMENT
MERIDIAN SCHOOL DISTRICT
INTERMOUNTAIN GAS
U S WEST
EAGLE WATER CO.
EAGLE FIRE DEPT.
FARMERS UNION DITCH
IDAHO POWER
ADA DEVELOP SERVICES

SUBJECT: REZONE AND SUBDIVSION

NAME: FLOATING FEATHER HILL SUBDIVISION

LOCATION : NORTHWEST OF FLOATING FEATHER ROAD

PREVIOUS NOTIFICATION OF PLANNING AND ZONING DATE IS INCORRECT. EAGLE PLANNING AND ZONING WILL HOLD THE PUBLIC HEARING ON JANUARY 28, 1991, DUE TO A HOLIDAY ON JANUARY 21, 1991, AT EAGLE CITY HALL, 7:30 P.M.

RECEIVED
JAN 11 1991
Department of Water Resources
Western Regional Office

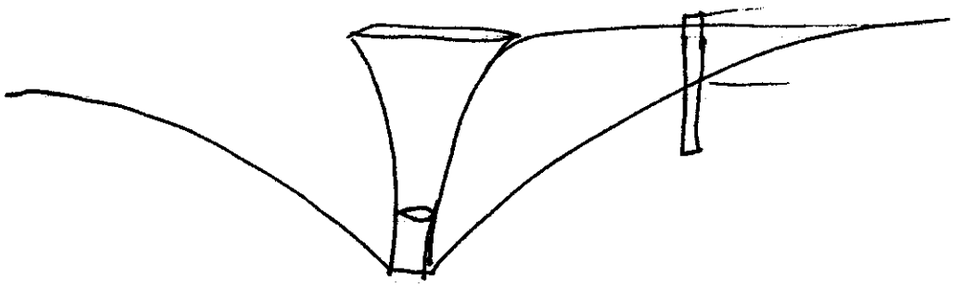
J. D. Williams Bld.
700 W. State
doors between bldg.
Someone will open doors
at 7:15. Then some-
one will have to be
there to let people
in after that.
If problem - across
street at stairway of
capitol bldg. is a phone
dial 4041 then at
tone dial 11.

OCT 0 1 1991

7:30 – 9:30

Agenda

	Presentor
1. Introduction & issues before IDWR	DRO
2. Applicant - present proposal/project	App
3. IDWR - Status - Data Collected / Present interpretation - additional data needed.	Steve
4. App - Collect addl data	
5. Comments from protestants other than concerns about water availability	
6. Hearing to be set if for lake spring, based	



Objectives

1. Educate pub re: app
2. " " " " on dev side
3. " " " " Sage area side.

OCT 01 1991

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705 - (208) 334-2190

CECIL D. ANDRUS
GOVERNOR
R. KEITH HIGGINSON
DIRECTOR

1/23/91

TRANSMITTAL COVER SHEET

OMNIFAX G66I
FAX NO. (208) 334-2348

TO: Georgia * FROM: Steve Lester
FAX # 343-8601 IDWR

DOCUMENT DESCRIPTION: Notice of meeting RE: 63-11413

TOTAL PAGES SENT: 3

CONTACT: SL
(Name of Sender)

* of Homeco (?), stated this is the applicant. It appears that she works for part of the partnership that comprises the applicant. I told her that we sent a notice to applicant but she still requested fax copy.

FLOATING FEATHER
PROTESTANTS

Curt Crosby
9902 Prairie
Boise, ID 83703

Cliff Fivecoat
10981 Hwy 55
Boise, ID 83703

Richard & Diane Anderson
835 Los Luceros
Eagle, ID 83616

Robert C. Day
11034 Culdesac
Boise, ID 83703

Cindy & Jose Franca
9837 Prairie Rd.
Boise, ID 83703

D.C. Boyer
2425 E. Floating Feather
Eagle, ID 83616

Robert DeShazo, Jr.
Eagle Water Corp.
P.O. Box 455
Eagle, ID 83616

Dewain Glubay
500 Rene
Eagle, ID 83616

Mike & Sylvia Boyle
9845 Lariat
Boise, ID 83703

John F. & Kathy Dutcher
602 Los Luceros
Eagle, ID 83616

William M. Gornik
10943 Hwy 55
Boise, ID 83703

Larry & Virginia Brunette
624 Los Luceros
Eagle, ID 83616

Rod W. Eisele
654 Edgewood
Eagle, ID 83616

Blair & Carolyn Hagerman
10236 Prairie Rd.
Boise, ID 83703

Steve & Anne Caron
11026 Culdesac Way
Boise, ID 83703

Evans Water Association
c/o Terry Loftus
216 Rene Place
Eagle, ID 83616

Mike Hawkins
9975 Prairie Rd.
Boise, ID 83703

Clifford D. Chambers
10237 Prairie Rd.
Boise, ID 83703

Tommy L. Eyton
11011 Runway Drive
Boise, ID 83703

Gary M. Hazen
3577 W. Floating Feather Rd.
Eagle, ID 83616

Eleanor I. Chase
70 W. Floating Feather Rd
Eagle, ID 83616

Farrell F. Ferguison
10753 Horseshoe Bend Rd.
Boise, ID 83703

Merle Hazen
2044 N. Meridian Rd.
Eagle, ID 83616

Evelyn M. Creelman
9897 Lariat St.
Boise, ID 83703

Carole Fivecoat
10981 Hwy 55
Boise, ID 83703

Dana Hofstetter
1098 Los Luceros
Eagle, ID 83616

OCT 01 1987

Barton L. Jackson
914 Los Luceros Dr.
Eagle, ID 83616

Carrie E. Jackson
914 Los Luceros Dr.
Eagle, ID 83616

George & Carol Jensen
3065 E. Floating Feather Rd.
Eagle, ID 83616

Jack R. Jensen
10101 Cayuse Ln.
Boise, ID 83703

Otto L. & Beryl A. Johnson
10030 Prairie Rd.
Boise, ID 83703

Alice & Wendell Jones
11154 Culdesac
Boise, ID 83703

Ed. Lambert
10294 Prairie Rd.
Boise, ID 83703

George Loucks
2310 Madision Ave
Boise, ID 83702

Gary S. Lyons
2985 Holl Dr.
Eagle, ID 83616

Hugh & Suzanne Massie
10,000 Prairie Rd.
Boise, ID 83703

Karl & Kay Mauritz
1471 E. Floating Feather
Eagle, ID 83616

Howard Maxwell
10895 Hwy 55
Boise, ID 83703

Richard E. Meiers
8220 Northview
Boise, ID 83704

Richard L. Mincer
10955 Runway Drive
Boise, ID 83705

C.K. Moore
10455 Prairie Rd.
Boise, ID 83703

William & Helen Pardew
P.O. Box 699
Eagle, ID 83616

F.L. Persons
11133 Horseshoe Bend Rd.
Boise, ID 83703

Gerald & Catherine Renfro
10735 Horseshoe Bend Rd.
Boise, ID 83703

Monte & Suzanne Riley
10357 Prarie Rd.
Boise, ID 83703

Robert A. Rowen
222 Rooster Dr.
Eagle, ID 83616

Don & Janet Rydman
8999 Prairie Rd.
Boise, ID 83703

Dan Schill
9950 Prairie
Boise, ID 83703

Louis C. Siron, III
10374 Prairie Rd.
Boise, ID 83703

Steve & Ruby Smith
10029 Prairie Rd.
Boise, ID 83703

Beverly Snediker
9780 Prairie Rd.
Boise, ID 83703

Knight & Rhonda Stanley
11067 Culdesac Way
Boise, ID 83703

E.F. Stark
133 Rooster Dr.
Eagle, ID 83616

OCT 01 [illegible]

Robert & Sondra Strain
11029 Runway Drive
Boise, ID 83703

Dennis Sutherland
11036 Runway Dr.
Boise, ID 83703

S.H. Sutherland
2425 E. Floating Feather Rd.
Eagle, ID 83616

Sharyn K. Sutherland
11036 Runway Dr.
Boise, ID 83703

Donald R. Thomas
10230 Caruse Ln.
Boise, ID 83703

Harry & Leona Vogt
3734 W. Beacon Lt. Rd.
Eagle, ID 83616

Mrs. C.B. Weber
11053 Horseshoe Bend Rd.
Boise, ID 83703

Philip D. Whitener
198 Rooster Dr.
Eagle, ID 83616

Neil D. Wilton
632 N. Edgewood Lane
Eagle, ID 83616

CONVERSATION MEMORANDUM

DATE 12/14/90

FILE 63-11413

NAME OF PARTY Dave Roylance

EMPLOYEE Steve Loster

RE: Amended P/D "

- 3 additional wells
- 2 wells in 5.4 - land owned by S & H Farms (Rick Hunnicutt). Access per agreement with owner

OCT 01 1991

CONVERSATION MEMORANDUM

DATE 63-11413

FILE 11/29/90

NAME OF PARTY Georgia (didn't get last name)

EMPLOYEE Steve Lester

RE:

She is an employee of Bryce-Peterson, a partner or consultant in proposed development.

Called to inquire about possibility of resolving this application concurrently with S & H Farms application.

Discussed protests & need for readvertising (error in original ad).

OCT 01 1991

December , 1990

TO: Protestants

RE: Application for Permit #63-11413 in the Name of Floating Feather Hills, Inc.

Dear Protestants:

We have received your protests to the above-referenced application for permit.

S & H Farms has an application for permit pending which is adjacent to Floating Feather Hills, Inc. Dr. S. Wood at Boise State University has been conducting a groundwater study at Eagle Terrace. Our intention is to put application #63-11413, Floating Feather Hills, Inc., in our hold files pending the outcome of the groundwater study and of S & H Farms application for permit.

If you have any further questions please let us know.

Sincerely,

DAVID R. TUTHILL, JR., P.E.
Manager, Western Regional Office

DRT:st

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705 - (208) 334-2190

CECIL D. ANDRUS
GOVERNOR
R. KEITH HIGGINSON
DIRECTOR

December 26, 1990

Bill Pardew
P.O. Box 699
Eagle, ID 83616

RE: Application #63-11413 in the Name of Floating Feather Hills, Inc.

Dear Mr. Pardew:

Enclosed is a copy of the amended application in the above-referenced matter. Also, for you information, we have enclosed a copy of a map showing the locations of the protestants.

If we can be of further assistance, please let us know.

Sincerely,

DAVID R. TUTHILL, JR., P.E.
Manager, Western Regional Office

DRT:st

Encl.

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705 - (208) 334-2190

CECIL D. ANDRUS
GOVERNOR
R. KEITH HIGGINSON
DIRECTOR

December 5, 1990

Rick Hormachea
Box 6887
Boise, ID 83707

Dear Mr. Hormachea:

As per your request enclosed is a copy of the Eagle Terrace Study abstract by Spencer Wood.

If we can further assist you please contact this office.

Sincerely,

David R. Tuthill

DAVID R. TUTHILL, JR., P.E.
Manager, Western Regional Office

DRT:st

OCT 01 1991

State of Idaho
DEPARTMENT OF WATER RESOURCES
1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720 -(208) 327-7900

CECIL D. ANDRUS
GOVERNOR
R. KEITH HIGGINSON
DIRECTOR

TRANSMITTAL SHEET

TOTAL PAGES SENT: 3

CONTACT: Steve Baker
(Name of Sender)

RECEIVED
OCT 01 1992

11-5-90
Preliminary abstract to
Idaho Water Resources Research Institute, UofI

Title: HIGH RESOLUTION SEISMIC REFLECTION AND BOREHOLE GEOPHYSICS TO DELINEATE AQUIFERS IN AN AREA OF WATER-RIGHT PROTESTS, BOISE RIVER VALLEY, IDAHO.

Investigators: Spencer H. Wood and John R. Pelton, BSU Geophysics

COWRR: Congressional District:

Descriptors:

Problem and Research Objectives: Applications for drilling new wells in the NE Eagle, Idaho area have been protested by domestic-water well owners in the adjacent foothills, along the NW boundary of the western Snake River Plain. Domestic wells in the foothills are typically 300-400-ft deep in a predominantly claystone section, containing only a few sand layers, less than 5 feet thick. Wells have explored the section down to subsurface elevation of 2300 ft. Specific capacity of wells in this setting is less than 1 gpm/ft. Density of wells in subdivisions (many spaced only 300 ft apart) [illegible] to [illegible] interference [illegible] [illegible] [illegible] water levels. [illegible] of the foothills, specific capacity of wells [illegible] gpm/ft. Wells are [illegible] 400 feet deep, [illegible] 50 ft of sand is [illegible] [illegible] [illegible] also [illegible] [illegible]

[illegible]

digital system [illegible] filtering and data processing [illegible] log data

[illegible]

reflections from [illegible] strata. [illegible] field technique and obtained a limited amount of [illegible] Sec 4, T.4N., R.1 E. along Dry Creek in the plain [illegible] of foothills [illegible] shotgun shells with both blank and slug loads. Holes were drilled to below the water table (about 8 ft) and [illegible] below the saturated zone. Recording utilized 100 Hz [illegible] geophones, and recording band of 100 - 826 Hz. Data was acquired on a new 48-channel digital seismic acquisition system. [illegible] parameters were set for recording reflections in the range of 300 to 1000 feet. Research is continuing on field and instrumentation methods to resolve the upper 300 ft. Other seismic data and geologic mapping were utilized to further examine the geologic framework of the area.

OCT 01 1991

NOV-27-96 TUE 15:56 IDAHO GEOLOGICAL SURVEY FAX NO. 208 885 5826 P03

Principal Findings and Significance:

Seismic data, drillers' logs (confirmed by geophysical logs), and field geologic studies show that the area is traversed by a major NW-SE trending fault, with 800 to 2000 ft of displacement. This fault separates the foothills area where poor well productivity and reported declining water levels have generated protests of new well drilling. From logs and existing seismic processings, location of fault can be predicted to an accuracy of about 3/4 mile. More high-resolution seismic coverage could locate the fault position to an accuracy of about 10 feet. In the area to the southwest, in the hanging wall of the fault, a significant sand aquifer exists, not present in the foothills, because it was downdropped and is now buried in the subsurface. This aquifer appears to be 100 to 150 ft thick, and is thought to be the Pierce Ferry deltaic sand member of the lacustrine sequence mapped elsewhere in the Boise foothills.

High-resolution seismic data taken at a point in the footwall block show a zone of strong reflections from [illegible] to 0.85 seconds, corresponding to about 300 - 555 ft [illegible] a seismic velocity of 6000 ft/s [illegible]

OCT 01 1996

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705 - (208) 334-2190

CECIL D. ANDRUS
GOVERNOR
R. KEITH HIGGINSON
DIRECTOR

November 30, 1990

Idaho Statesman
P.O. Box 40
Boise, ID 83707

Re: Error in Advertising, Application for Permit in the name of Floating Feather Hills, Inc., #63-11413

Dear Legal Dept.:

Enclosed is a copy of the original notice for the above-referenced application and the affidavit of publication received by our office. Note that there is a discrepancy in the two notices.

Please readvertise this application with the enclosed notice of correction. Upon receipt of an affidavit of publication for the correction notice, we will forward the bill for the first publication to our accounting section.

Thank you for your cooperation.

Sincerely,

Sue

Sue Taylor
Secretary, Office Coordinator

Enclosures: Copy of Original Notice
Copy of Affidavit
Legal notice

OCT 01 1991

NOTICE OF CORRECTION OF APPLICATION FOR PERMIT

Notice is hereby given that on November 15 and 22, 1990, Application for Permit No. 63-11413 in the name of the Floating Feather Hills, Inc., was advertised in error.

The Place of Use was advertised as T04N R02E S03 Lot 2 (NWNE) SWNE SENE Lot 3 (NENW) SENW NESW NWSW SWSW SESW NWSE SWSE. Whereas, the Place of Use should have read T04N R01E S03 Lot 2 (NWNE) SWNE SENE Lot 3 (NENW) SENW NESW NWSW SWSW SESW NWSE SWSE. The water source is groundwater for 5.00 cfs and is used for irrigation, domestic and fire protection purposes.

Any protest against approval of this water right application must be filed with the Director, Dept. of Water Resources, Western Region, 2735 Airport Way, Boise, ID 83705 on or before December 24, 1990.

R. Keith Higginson, Dir.

Advertised in the the The Idaho Statesman on December 6 and 13, 1990.

OCT 31 1991

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705 - (208) 334-2190

CECIL D. ANDRUS
GOVERNOR
R. KEITH HIGGINSON
DIRECTOR

November 19, 1990

Bill Pardue
P.O. Box 699
Eagle, ID 83616

Re: Application for Permit #63-11413 in the name of Floating Feather Hills, Inc.

Dear Mr. Pardue:

Enclosed is a copy of the above-referenced application for permit that you requested.

If you need further assistance please let us know.

Sincerely,

Dave

DAVID R. TUTHILL, JR., P.E.
Manager, Western Regional Office

DRT:st

Encl.

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705 - (208) 334-2190

CECIL D. ANDRUS
GOVERNOR
R. KEITH HIGGINSON
DIRECTOR

November 9, 1990

Idaho Dept. of Health & Welfare
Division of Environment
Statehouse
Boise, ID 83720

Re: Application for Permit No. 63-11413 in the name of Floating Feather Hills, Inc.

Dear Sir:

Enclosed is a copy(s) of the above-referenced application(s) for permit which may be of interest to your agency. Please review the application(s) and submit any comments you may have.

This office normally completes the processing of an application within a six-week period and is required to take final action shortly thereafter, however, if your agency desires to file a formal protest against the approval of this application(s), your written protest must be received in this office by December 3, 1990.

If you have any questions regarding the application, please contact this office.

Sincerely,

David R. Tuthill Jr.

DAVID R. TUTHILL, JR., P. E.
Manager, Western Regional Office

DRT:st

Enclosure(s):

OCT 01

DNG
5 cfs appl in Eagle Terrace g.w. study area.
SR

Form No. 202a.
3/89

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPROPRIATION APPLICATION ANALYSIS SHEET

INITIAL REVIEW BY: SR DATE: 10/25/90 APPLICATION: 63-11413

REQUIRED INFORMATION

(See conv. memo)

- ✓ Name: (If applicant is a corporation or partnership, names and addresses for the director, officers, and other partners must be included.)
- ✓ Address:
- ✓ Source: (See USGS Quad for names of water sources)
- ✓ Point of Diversion: (10 acres for spring, lot & block descriptions for Subdivisions, local name)
- ✓ County:
- ✓ Quantity: (flow and/or volume)
- ✓ Period of use:
- ✓ Nature of proposed use: (Include description of use)
- ✓ Description of diverting works:
- ✓ Time required for beneficial use of water:
- ✓ Place of use or acres irrigated:
- ✓ Map:
- ✓ Signature: (If applicant is corp., partnership, or municipality, title of signatory is required)
- ✓ Fee:
- ✓ Yes ___ No* In form to receipt:

Gov't. Lots:
N P/D
y P/U

NEED $20 REFUND PER 10/25/90 MEMO

ADDITIONAL INFORMATION

YES	NO	
✓		Overlapping place of use: (Describe source & relationship to present application on the back.)
	✓	Overlapping point of diversion:
		Field check required: Field check by: _____
		Field report attached:
	✓	Critical groundwater area:
	✓	Groundwater management area:
	✓	Diversion within interim protected river area
	✓	Send dam safety information:
	✓	Send power requirement letter:
	✓	Send fish farm requirement letter:
	✓	Power residency affidavit:
	✓	Power efficiency form:
	✓	Within trust water boundary: (If yes, attach Trust Water Supplementary Analysis Sheet.)
	✓	Diversion greater than 5 cfs or 500 af: (If yes, attach Large Diversion supplementary analysis sheet.)
	✓	*REQUEST ADDITIONAL INFORMATION FROM THE APPLICANT

DATE REQUESTED: _____

✓ ___ Additional information on reverse side:

PROCESSING

APPLICATION NO. 63-11413

YES	NO	
✓		In form for advertising:
	✓	Statewide advertising:
✓		Fee amount, receipt number and date recorded on application:

SEND COPIES TO

YES	NO		YES	NO	
✓		I.D. Health and Welfare		✓	U.S. BLM
	✓	I.D. Fish and Game		✓	U.S. Forest Svc.
	✓	I.D. Lands		✓	Water Dist. #
	✓	Adjudication Bureau		✓	Other

FINAL REGIONAL PROCESSING REVIEW

YES	NO	
		Affidavit of publication received:
		Application published correctly: If not, record action taken.
✓		Publication dates and paper recorded on application:
		Protests received. Final date for protest December 3, 1990
		Protest dates, resolution of protest recorded on application:
		Recommendations attached:
		Measuring device required:
		Measuring port required:
		Water delivered by water master? District #
		Special conditions of approval or cover letter:
		See below for additional information

Recommended Date or Priority

Recommended by: Date

STATE OFFICE REVIEW

See below for additional information. By Date

ADDITIONAL INFORMATION

✓ TROUT VALLEY VILLAGE

CONTROVERSIAL APPLICATIONS IN AREA INCLUDE 63-10373 (CANCELLED/VOIDED) & 63-10671 (PENDING).

↗ SSH FARMS

OVERLAP

P/u 63-07395B Different well for other land (5 AC. SENE).
63-02406 WASTE water for other lands (3 AC. NENW).

CONVERSATION MEMORANDUM

DATE 10/25/90

FILE

NAME OF PARTY Orvil Roylance

EMPLOYEE Steve Lester

RE: Floating Feather Hills Inc. appl. for permit

1) fully aware of controversies in area in question & has been in contact w/ DR. S. Wood at BSU about recent Eagle Terrace g.w. study. Will probably contact Steve Baker s/or S. Wood about latest developments in g.w. study.

2) WRS aware of Treasure Valley Village appl. in same area (63-10373, now cancelled/voided per 10/25/90 data base check).

3) WRS not aware of S&H Farms appl. 63-10671 in adjacent land in S. 4.

4) does not want to wait to advertise his appl. until S&H Farms ~~not~~ resolved, wants to press ahead & advertise a.s.a.p.

5) Names/titles/c/o same address

Pres. - Bryce L. Peterson

V-P - Dennis Whitmore

S/T - Orvil Roylance

6) CHANGES to application:

a) item 7 = 5 yrs.

b) item 9 = 200 acres to be equally spread to QQ's

c) " " = interpreting topo, applicants p/u is ~~S½ of S3~~ ~~West of Hwy. 55,~~ S½NE¼, SENW, & S½ S. 3, all west of Hwy. 55.

He will send map to confirm p/u.

7) wants to keep flow at 5 cfs.

OCT 01 1990

MEMORANDUM

TO: NANCY HANDZEL

FROM: STEVE LESTER

DATE: OCT. 25, 1990

SUBJ: REFUND FOR APPLICATION

On 10/22/90 the State Office received an application for permit for 5.00 cfs from Floating Feather Hills Inc. and a check for $145. The application arrived at Western on 10/24/90. The correct application fee is $125. Please send a $20 refund to:

ATTN David Roylance
Floating Feather Hills Inc.
4227 Emerald
Boise, ID. 83706

A copy of receipt no. C018679 is attached. Note that the proper receipt code is 0520199 1238 6390.

Thanks,

Steve Lester
Sr. Water Resource Agent

CC: Application File

OCT 01 1991

8710-268-8205 / FORM DA-8 Rev. 11-86
WHITE — State Auditor
YELLOW — Remittance Advice
PINK — State Auditor then Agency
GOLDENROD — Agency Copy

EXPENDITURE VOUCHER

STATE OF IDAHO
Office of State Auditor

AUDITOR USE

Document No.	
Pre-Audit	Date
Warrant No.	

AGENCY USE

3267
Date: 11/01/90
Code: 193002

VENDOR: If you require additional information regarding this payment, please contact the State agency listed below.

AGENCY NAME: DEPT. OF WATER RESOURCES

CHECK ONE:

(1) MISCELLANEOUS EXPENDITURE
( ) STATE CONTRACT
( ) PURCHASE ORDER
( ) MISCELLANEOUS ENCUMBRANCE REQUISITION

PAY TO:
FLOATING FEATHER HILLS INC.
ATTN: DAVID ROYLANCE
4227 EMERALD
BOISE, ID 83706

PAYMENT: ( ) PARTIAL ( ) FINAL

Encumbrance Reference No.

LINE No.	PROGRAM	FUND	ACCT. Maj	ACCT. Min	DESCRIPTION	LINE AMOUNT	AGENCY USE
1	05 20 199	1238	8831		REFUNDS PER STEVE LESTER RECEIPT #C018679 10/25/90 20.00	20.00	

10/03/90

OCT 01 1991

TOTAL 20.00

NOTE: Final payment must be accompanied by a receiving copy

TO STATE AUDITOR

Request is hereby made that a warrant be authorized and drawn in payment of the item or items described above. I hereby certify that the items described were ordered by proper authority; that they are necessary in the public service, that the items have been received and accounted for, and that the account as stated is correct and just.

Date Head of Agency or Institution

AUDITOR'S CERTIFICATE

I hereby certify that the above account is in proper form; that totals carried hereon are correct; that receipts when required by law or regulation of the State Board of Examiners covering items for which reimbursement is asked are submitted herewith; and that there are funds in the state treasury and balances in appropriation accounts out of which the same may be lawfully paid.

State Auditor

63-11413

FLOATING FEATHER HILLS INC.
4227 EMERALD
BOISE, ID 83706

Source: GROUNDWATER

Diversion Pt: SWSWSW Sec 3 T 04N R 01E

Use: IRRIGATION (2.000 CFS)
DOMESTIC (1.000 CFS)
FIRE PROTECTION (2.000 CFS)
Total Diversion: (5.000 CFS)

Date Filed: 10/22/ 1990

In: T04N R01E S03 Lot 2 (NWNE) SWNE SENE Lot 3 (NENW)
SENW NESW NWSW SWSW
SESW NWSE SWSE

200.0 ACRES TOTAL

OCT 0 1 1991

March 15, 1991

Distribution: Floating Feather Protestants

Re: Floating Feather Hills, Inc. Update

Dear Interested Party:

This letter is to inform you of changes that have been made to the application for permit filed by Floating Feather Hills, Inc., #63-11413.

The applicant wishes to amend the application by assigning an additional name of Treasure Valley Village, a limited partnership; by changing the rate of flow for domestic water use from 1.0 cfs to 1.25 cfs, with 5.0 cfs remaining for the total diversion for the three water uses mentioned above; by adding to the original place of use two additional tracts within S3, NESE and SESE; and by increasing the total number of homes served to 900. The priority date of the water right has been delayed to March 14, 1991.

Your existing protest remains valid and does not need to be renewed. If you have any question regarding these changes please call this office.

Sincerely,

David R. Tuthill Jr.

DAVID R. TUTHILL, JR., P.E.
Manager, Western Regional Office

DRT:st

OCT 01 1991

FLOATING FEATHER HILLS, INC.
2417 Bank Dr. Suite 101
Boise, ID 83705

Mike & Sylvia Boyle
9845 Lariat
Boise, ID 83703

Evelyn M. Creelman
9897 Lariat St.
Boise, ID 83703

PROTESTANTS

Richard & Diane Anderson
835 Los Luceros
Eagle, ID 83616

Larry & Virginia Brunette
624 Los Luceros
Eagle, ID 83616

Curt Crosby
9902 Prairie
Boise, ID 83703

Marcia Beckwith
2260 Dicky
Eagle, ID 83616

Neal Bryson
399 Rene
Eagle, ID 83616

Merville Cushing
398 Rene
Eagle, ID 83616

Robert E. Beckwith
2260 Dicky
Eagle, ID 83616

Steve & Anne Caron
11026 Culdesac Way
Boise, ID 83703

Roger & Elaine Darnell
464 Rene
Eagle, ID 83616

John Beggrow
315 Rene
Eagle, Id 83616

C.A. & Roberta Carpenter
453 Rene
Eagle, ID 83616

Robert C. Day
11034 Culdesac
Boise, ID 83703

Nina L. Blan
385 Dicky
Eagle, ID 83616

Clifford D. Chambers
10237 Prairie Rd.
Boise, ID 83703

Robert DeShazo, Jr.
Eagle Water Corp.
P.O. Box 455
Eagle, ID 83616

Leann M. Boyce
2263 Sadie
Eagle, ID 83616

Shirley Chambers
2324 Sadie
Eagle, ID 83616

John F. & Kathy Dutcher
602 Los Luceros
Eagle, ID 83616

William L. Blan
385 Dicky
Eagle, ID 83616

Eleanor I. Chase
70 W. Floating Feather Rd
Eagle, ID 83616

Rod W. Eisele
654 Edgewood
Eagle, ID 83616

D.C. Boyer
2425 E. Floating Feather
Eagle, ID 83616

Jan & Walt Costello
300 Dicky
Eagle, ID 83616

Frank & Janet Elliot
329 Dicky
Eagle, ID 83616

OCT 01 1991

Evans Water Association
c/o Terry Loftus
216 Rene Place
Eagle, ID 83616

William M. Gornik
10943 Hwy 55
Boise, ID 83703

Carrie E. Jackson
914 Los Luceros Dr.
Eagle, ID 83616

Tommy L. Eyton
11011 Runway Drive
Boise, ID 83703

Blair & Carolyn Hagerman
10236 Prairie Rd.
Boise, ID 83703

George & Carol Jensen
3065 E. Floating Feather Rd.
Eagle, ID 83616

Farrell F. Ferguison
10753 Horseshoe Bend Rd.
Boise, ID 83703

Steve & Carolyn Haughton
2218 Dicky
Eagle, ID 83616

Jack R. Jensen
10101 Cayuse Ln.
Boise, ID 83703

Debbie Fielding
2221 Dicky
Eagle, ID 83616

Mike Hawkins
9975 Prairie Rd.
Boise, ID 83703

Otto L. & Beryl A. Johnson
10030 Prairie Rd.
Boise, ID 83703

Carole Fivecoat
10981 Hwy 55
Boise, ID 83703

David Haworth
325 Dicky
Eagle, ID 83616

Alice & Wendell Jones
11154 Culdesac
Boise, ID 83703

Cliff Fivecoat
10981 Hwy 55
Boise, ID 83703

Gary M. Hazen
3577 W. Floating Feather Rd.
Eagle, ID 83616

Larry Koomler
2301 Sadie
Eagle, ID 83616

Cindy & Jose Franca
9837 Prairie Rd.
Boise, ID 83703

Merle Hazen
2044 N. Meridian Rd.
Eagle, ID 83616

Ray Kreps
2171 E. Dicky
Eagle, ID 83616

A. Daniel Freiberg
441 Rene
Eagle, ID 83616

Dana Hofstetter
1098 Los Luceros
Eagle, ID 83616

Ed Lambert
10294 Prairie Rd.
Boise, ID 83703

OCT 01 199

Dewain Glubay
500 Rene
Eagle, ID 83616

Barton L. Jackson
914 Los Luceros Dr.
Eagle, ID 83616

Steve & Jeannie Lenon
371 Rene
Eagle, ID 83616

George Loucks
2310 Madision Ave
Boise, ID 83702

Beth Olson
2252 E. Dicky
Eagle, ID 83616

Don & Janet Rydman
8999 Prairie Rd.
Boise, ID 83703

Gary S. Lyons
2985 Holl Dr.
Eagle, ID 83616

William & Helen Pardew
P.O. Box 699
Eagle, ID 83616

Dan Schill
9950 Prairie
Boise, ID 83703

Hugh & Suzanne Massie
10,000 Prairie Rd.
Boise, ID 83703

F.L. Persons
11133 Horseshoe Bend Rd.
Boise, ID 83703

Louis C. Siron, III
10374 Prairie Rd.
Boise, ID 83703

Jeff Mattoon
2266 Sadie
Eagle, ID 83616

Alice Plecker
2248 Sadie
Eagle, ID 83616

Steve & Ruby Smith
10029 Prairie Rd.
Boise, ID 83703

Karl & Kay Mauritz
1471 E. Floating Feather
Eagle, ID 83616

Gerald & Catherine Renfro
10735 Horseshoe Bend Rd.
Boise, ID 83703

Beverly Snediker
9780 Prairie Rd.
Boise, ID 83703

Howard Maxwell
10895 Hwy 55
Boise, ID 83703

Monte & Suzanne Riley
10357 Prarie Rd.
Boise, ID 83703

Knight & Rhonda Stanley
11067 Culdesac Way
Boise, ID 83703

Richard E. Meiers
8220 Northview
Boise, ID 83704

Rhonda Roberts
279 Rene
Eagle, ID 83616

E.F. Stark
133 Rooster Dr.
Eagle, ID 83616

Richard L. Mincer
10955 Runway Drive
Boise, ID 83705

Donald & Priscilla Rogers
425 Rene
Eagle, ID 83616

Robert & Sondra Strain
11029 Runway Drive
Boise, ID 83703

C.K. Moore
10455 Prairie Rd.
Boise, ID 83703

Robert A. Rowen
222 Rooster Dr.
Eagle, ID 83616

Dennis Sutherland
11036 Runway Dr.
Boise, ID 83703

OCT 01 1991

S.H. Sutherland
2425 E. Floating Feather Rd.
Eagle, ID 83616

HOMCO
2417 Bank Drive
Suite 101
Boise, ID 83705

Sharyn K. Sutherland
11036 Runway Dr.
Boise, ID 83703

Donald R. Thomas
10230 Caruse Ln.
Boise, ID 83703

Harry & Leona Vogt
3734 W. Beacon Lt. Rd.
Eagle, ID 83616

Thurman & Annemarie Wardlow
489 Rene
Eagle, ID 83616

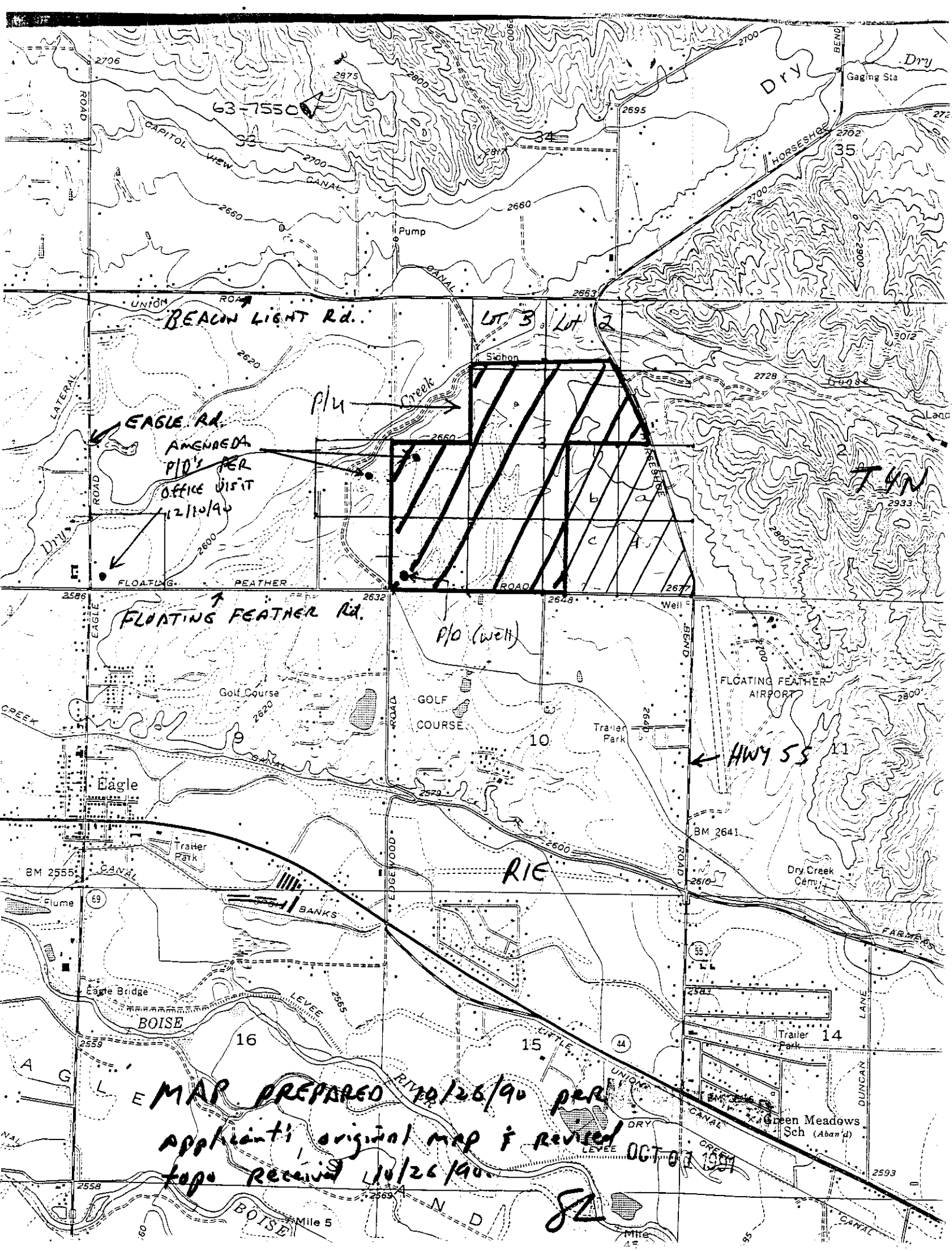
Mrs. C.B. Weber
11053 Horseshoe Bend Rd.
Boise, ID 83703

Philip D. Whitener
198 Rooster Dr.
Eagle, ID 83616

Neil D. Wilton
632 N. Edgewood Lane
Eagle, ID 83616

Jene & Steve Yundt
477 Rene
Eagle, ID 83616

OCT 01 1991


63-7550
BEACON LIGHT Rd.
LOT 3
LOT 2
EAGLE Rd.
AMENDED P/D's PER OFFICE VISIT 12/10/90
P/U
P/O (well)
FLOATING FEATHER Rd.
HWY 55
T 4N
R 1E
BOISE
Eagle
Golf Course
GOLF COURSE
FLOATING FEATHER AIRPORT
Trailer Park
Dry Creek Cem.
Green Meadows Sch (Aban'd)
Eagle Bridge
Flume
Pump
Gaging Sta
Well
Mile 5
Mile 4
16
15
14
10
11
MAP PREPARED 10/26/90 PER applicant's original map & revised topo Received 10/26/90.
OCT 01 1990

NOTICE OF ASSIGNMENT AND AMENDMENT OF APPLICATION FOR PERMIT

Notice is hereby given that application No. 63-11413 in the name of Floating Feather Hills Inc. was filed on 10/22/1990 for the diversion of 5.0 cfs from groundwater with a point of diversion within T4N R1E S3 NWSW, SWSWSW and S4 SWSW, NESE to be used for Irrigation (3/15 to 11/15), Domestic and Fire Protection purposes from 01/01 to 12/31, within portions of T4N R1E S3 LOT 2 (NWNE), S1/2NE1/4, LOT 3 (NENW), SENW, SW1/4, W1/2SE1/4.

The applicant now proposes to amend the application by assigning an additional name of Treasure Valley Village, a limited partnership; by changing the rate of flow for domestic water use from 1.0 cfs to 1.25 cfs, with 5.0 cfs remaining for the total diversion for the three water uses mentioned above; by adding to the original place of use two additional tracts within S3, NESE and SESE; and by increasing the total number of homes served to 900.

Any new protest against the approval of the proposed assignment and amendment must be filed with the Department of Water Resources, Western Region, 2735 Airport Way, Boise, Idaho 83705 on or before April 8, 1991. Any protest filed regarding an earlier version of the application remains valid.

R. Keith Higginson
Director

Published in the Idaho Statesman on 3/21 and 3/28/1991.

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FLOATING FEATHER HILLS, INC.

March 7, 1991

State of Idaho
Department of Water Resources
2735 Airport Way
Boise, ID 83705

Attn: Dave Tuthill

RE: Well Permit #63-11413 In the Name of Floating Feather Hills, Inc.

Dear Mr. Tuthill:

You are hereby requested to amend the above referenced water rights application to include the property attached hereto.

Please do not hesitate to call if you have any questions.

Sincerely,

FLOATING FEATHER HILLS, INC.

Bryce L. Peterson
President

:gm
CC: Floating Feather Hills/Partners
Treasure Valley Village

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2417 BANK DRIVE, SUITE 101 • BOISE, IDAHO 83705 • (208) 343-6500

TRAIL CREEK RANCH
SUBDIVISION

A parcel of land situate in the East One-half of Section 3, Township 4 North, Range 1 East, Boise Meridian, Ada County, Idaho, being more particularly described as follows:

Commencing at the Section Corner common to Sections 2, 3, 10 and 11, Township 4 North, Range 1 East, Boise Meridian; thence S89°53'17"W, 2,276.14 feet along the Section Line common to said Sections 3 and 10 to the REAL POINT OF BEGINNING:

Thence N00°47'30"W, 2,616.95 feet;

Thence N89°53'17"E, 1,511.68 feet along a line parallel to the southerly boundary of said Section 3 to the southwesterly right-of-way of Idaho State Highway 55;

Thence S18°06'46"E, 2,151.15 feet along the southwesterly right-of-way of Idaho State Highway 55;

Thence 580.50 feet along a curve deflecting to the right, with a radius of 1,865.20 feet, a central angle of 17°49'55", a long chord of 578.16 feet and a long chord bearing of S09°11'49"E, along the southwesterly right-of-way of Idaho State Highway 55 to the southerly boundary of said Section 3;

Thence S89°53'17"W, 2,236.70 feet along the southerly boundary of said Section 3 to the REAL POINT OF BEGINNING.

Comprising 115.0 Acres, more or less.

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State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705 - (208) 334-2190

CECIL D. ANDRUS
GOVERNOR
R. KEITH HIGGINSON
DIRECTOR

March 8, 1991

Distribution: See List Below

RE: Floating Feather Hills, Inc. Pump Test

Dear Interested Party:

This afternoon this office received a report entitled "Floating Feather Hills, Inc. Preliminary Pumping Test Design." Enclosed for your review is a copy of the report.

Your input regarding the proposed pumping test is solicited. As described in the report, the production/test well has been drilled in the southwest corner of Section 3, T4N, R1E. We will have a meeting to discuss the provisions of the test at the site of this well on Friday, March 15, at 10:00 am. Any interested party who desires to provide input regarding the test but who is unable to attend the meeting is invited to call or write to this office prior to that date. We anticipate making final determinations at the meeting as to how the pump test will be conducted.

Thank you for your continuing interest and participation in this matter.

Sincerely,

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office

Interested Parties

Floating Feather Hills, Inc. Well Test

Floating Feather Hills, Inc.
David Roylance, Engineer for Floating Feather Hills, Inc.
Sherl Chapman, Geologist for Floating Feather Hills, Inc.
Chuck Feast, Geologist for Floating Feather Hills, Inc.
Bill Pardew, Local Wateruser
Ted Persons, Local Wateruser
Will Burnham, Boise Basin Geologist
Alan Robertson, IDWR Section Supervisor
Steve Baker, IDWR Geologist
Spencer Wood, BSU Professor and Geologist
Ed Squires, BSU Geologist
Jack Kelly, Montgomery Engineers
Harley Carson, Local Wateruser

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NOTE FOR FUTURE CORRESPONDENCE

CONVERSATION MEMORANDUM

DATE 2/22/91

FILE 63-11413

NAME OF PARTY Bill Parker

EMPLOYEE Steve Lester

RE:

Bill called on behalf of Larry Kuomler of Evans Water ~~Assn~~ CORP. Asked that L. Kuomler be placed on mailing list of interested parties & that a copy of ORT's 2/15/91 letter be sent to L. Kuomler.

ADD TO MAILING LIST OF INTERESTED PARTIES

LARRY KUOMLER
EVANS WATER CORP.
2301 E. Sadie DR.
EAGLE 83616

3-5-91
Stan McHutchison, P.E. of of Boise Cascade (City of Eagle engineer)
mailed copy of app. 63-11413 to him per request.
SL

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Plz file w/APP——

DAVE DW
ROB RW

EXTRA COPY OF FLOATING FEATHER HILLS DRILLING PERMIT. WAS issued 2/27/91.

NOTE Added conditions.

SZ

Form 235-1
7/90

NOTE ALL CONDITIONS, ESPECIALLY #8, 10-12

Drilling Permit No. 63-91-W-044
Water Right Permit I 63-11413 Appl. Pending
Injection Permit No. _____

State of Idaho
Department of Water Resources

APPLICATION FOR DRILLING PERMIT

1. **Applicant (please print)** Floating Feather Hills Inc.
2. **Mailing Address** 2417 Banks Dr. Suite 101 Boise ID. 83705
   Telephone 343-6500
   (✓) Well Owner ( ) Well Operator ( ) Other, specify _____
3. **Proposed well location** SW 1/4 SW 1/4, or Gov't Lot No. _____
   Sec. 3, Twp. 4N, Rge. 1E, County Ada
   Street Address of Well Site _____
   Lot, block and subdivision _____
4. **Proposed use of well:**
   ( ) Domestic: The use of water for homes, organization camps, public campgrounds, livestock and for any other purpose in connection therewith, including irrigation of up to 1/2 acre of land, if the total use is not in excess of 13,000 gpd; or any other uses, if the total use does not exceed a diversion rate of 0.04 cfs and a diversion volume of 2500 gpd.

   Domestic does not include water for multiple ownership subdivisions, mobile home parks, commercial or business establishments, unless the use does not exceed a diverstion rate of 0.04 cfs and a diversion volume of 2500 gpd.

   (✓) Non-Domestic: Any beneficial use not included within the definition of domestic. Test well for irrig. & multi-domestic use
   ( ) Injection
   ( ) Monitoring - A well bore schematic and map is required for each well.
   No. of proposed wells: _____
5. **Well construction information:**
   A. (✓) New well ( ) Deepen ( ) Replace - See Condition 9
   B. Proposed Surface Diameter 16" Proposed Maximum Depth 400'-500'
   C. Anticipated bottom hole temperature:
   (✓) 85°F or less (Cold water well)
   ( ) 85°F to 212°F (Low temp. geothermal well)
   ( ) 212° or more (Geothermal well)

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6. **Construction Start Date** 2-27-91
7. **Anticipated Well Driller** PETE COPE
   NOTE: The actual well driller must be identified prior to drilling.
8. **Applicant's signature** x Georgia Mackley Date 2/27/91
   Title x Secretary (Owner, Firm Representative, Other)

ACTION OF THE DEPARTMENT OF WATER RESOURCES

This Permit is Approved. Date 2/27/91.

If approved, this permit authorizes the constuction or modification of a well subject to the following conditions. READ CAREFULL

GENERAL CONDITIONS:

1. The well must be constructed in compliance with the applicable statutes, specific conditions of approval shown on the water right permit, injection well permit, transfer or amendment and the rules and regulations of the Department for water appropriation, injection wells and well construction standards.
2. This drilling permit is valid for two (2) months from the above approval date for the start of construction and is valid for one (1) year from the approval date for completion of the well unless an extension has been granted.
3. This permit does not constitute an approval of the District Health Department or the Idaho Department of Health and Welfare which may be required before construction of this well.
4. The well shall be constructed by a driller currently licensed in the State of Idaho who must maintain a copy of the drilling permit at the drilling site.
5. Approval of this drilling permit does not authorize trespass on the land of another party.
6. This permit does not constitute other local, county, state or federal approvals which may be required for construction of a well.
7. This drilling permit does not represent a right to divert and use the water of the State of Idaho.
8. If a bottom hole temperature of 85° or greater is encountered, well construction shall cease and the well driller and the well owner shall contact the Department immediately.
9. If this permit is for a replacement well, the well being replaced must be abandoned in accordance with Department Rules and Regulations.

SPECIFIC CONDITIONS:

10. Water cannot be diverted from this well except for test pump purposes as outlined in IDWR application file no. 63-11413.
11. The pump test cannot start until the Western Region Manager approves the proposed procedure for the well pump test. per DRT's 2/15/91 letter
12. The well owner assumes all responsibility for proper removal of water from the test area.

Steve Lester Sr. Water Res. Agent for Manager, Western Region
Signature of Authorized Department Representative Title

Receipt No. W013057 Receipted by SL Fee $200 Date 2/27/91

OCT 01 1991

EXTENSION OF DRILLING PERMIT

Extension approved by _____ Approval Date _____

This extension is good for 60 days beyond the above extension approval date.

CH2M HILL TRANSMITTAL

TO	Idaho Department of Water Resources Western Regional Office 2735 Airport Way Boise, Idaho 83705	FROM	Chuck Feast CH2M HILL P.O. Box 8748 Boise, Idaho 83707
ATTN	Mr. Dave Tuthill	DATE	March 8, 1991
RE	Floating Feather Hills	PROJECT NUMBER	BOI31684.A1

WE ARE SENDING YOU

- ☒ ATTACHED
- ☐ UNDER SEPARATE COVER VIA _____
- ☐ SHOP DRAWINGS
- ☐ DOCUMENTS
- ☐ TRACINGS
- ☐ PRINTS
- ☐ SPECIFICATIONS
- ☐ CATALOGS
- ☐ COPY OF LETTER
- ☐ _____

QUANTITY	DESCRIPTION
3	Preliminary Pumping Test Design Report

IF MATERIAL RECEIVED IS NOT AS LISTED, PLEASE NOTIFY US AT ONCE

REMARKS _____

OCT 01 1991

COPY TO _____

REV 1/87 FORM 6

Floating Feather Hills, Inc.
Preliminary Pumping Test Design

Introduction

Floating Feather Hills, Inc. (FFHI) has applied for a permit to withdraw groundwater for public water supply at their proposed housing development in Section 3, T4N, R1E, northeast of Eagle, Idaho as shown in Figure 1.

More than 70 protests were filled by existing well owners in the area because of concerns over aquifer depletion and interference to senior groundwater rights. In response to these concerns FFHI agreed to installed a test/production well and conduct a long term pumping test.

The objectives of the test are to determine aquifer properties and to evaluate potential interference with existing wells in the area. This document describes the proposed long term pumping test to be conducted on the Floating Feather Hills, Inc test/production well.

Test Well Construction

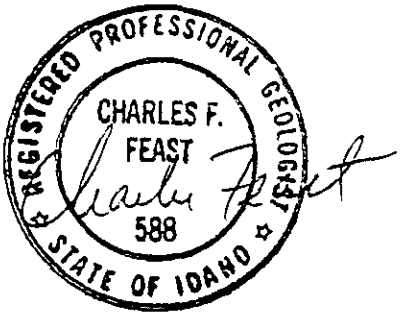
The test/production well is located in the SW1/4, SW1/4 of Section 3, T4N, R1E. The 24 inch diameter well bore was drilled between March 2 and March 4 to a depth of 415 feet by Pete Cope Well Drilling using reverse circulation drilling methods. On March 5 the well bore was geophysically logged by Spencer Wood, Department of Geology, Boise State University.

Mr. Sherl Chapman, consultant for FFHI, evaluated the drill cuttings and drillers log to design the well casing and well screen schedule. An abbreviated geologic log and construction diagram the production well are shown on Figure 2. The well was completed with 16 inch diameter steel casing and a total of 60 feet of .040 inch slot well screen adjacent to permeable formations. Screen intervals selected by Mr. Chapman were from 215 to 265 feet and from 375 to 385 feet. The well was completed on March 7.

As of the time this Pump Test Plan was prepared the well had not been developed or test pumped to determine approximate well yield. The proposed pumping rate is 1,000 gpm. Expected static water level is 65 to 75 feet below ground level.

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Floating Feather Hills, Inc.
Preliminary Pumping Test Design



Prepared by:

CH2M HILL

March 8, 1991

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Aquifer Evaluation

The formation consists of bedded sands and clays. The sands are predominantly fine grained. Thin clay beds and moderately thick sandy clay and finely bedded clay and sand intervals separate the permeable sand beds. Considering the depth of the screen intervals and the highly stratified nature of the aquifer it is anticipated that the aquifer will respond as a leaky artsian or water table aquifer with considerable delayed yield.

Preliminary aquifer characteristics therefore are:

Transmissivity

100,000 gpd/ft^2 for entire saturated aquifer
24,000 gpd/ft^2 for the screened interval

Storage Coefficient = .001.

Total thickness = 328 feet

Screened interval = 60 feet

Observation Wells

The observation wells proposed for this test consist of existing wells ranging from about 1,300 to 7,500 feet from the well. Figure 2 shows the locations of the proposed monitoring wells and Table 1 describes them. All of these wells are domestic or irrigation wells except for well No. 9 which is a joint USGS/IDWR observation well. None of the wells are in use although several have wells nearby that are used.

Most of the wells are oriented east - west along Floating Feather Road. The USGS well and the Eagle Hills Golf Course well are to the north east and south respectively. Two wells are located in the Sage Acres Subdivision east of Highway 55.

Three of the proposed observation wells have existing submersible pumps which will have to be pulled to allow equipping the wells with water level recorders. The pumps are tentatively scheduled to be pulled on Monday, March 7 pending final owner permission. Well depth will be confirmed on all observation wells.

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Well No. 7 in Sage Acres, well No.4 in Eagle Hills Golf Course, and wells 2 and 3 east and west of the test well, respectively are candidates for water level recorders. Well No. 9, the USGS well is currently equipped with a recorder. The other wells will be monitored with well sounders. Pretest background water levels will start being measured Monday, March 11.

In addition to the observation wells several domestic wells the production well, wells E-1 through E-4, Figure 2, will be periodically monitored during the test if possible. The well owners have been contacted but no attempts have been made to gain access to these wells for purposes of measuring water levels.

Pretest Specific Capacity Pumping

On Tuesday, March 12, (tentatively scheduled) the production well will be equipped with a test pump and a step test will be conducted to determine the specific capacity. The step test will provide the information needed to select the long term pump rate. After this initial, short term test the final long term pump test can be designed.

Disposal of Discharge Water

Assuming agreement can be reached with the canal company pump test discharge water will be piped to the adjacent Farmers Union Canal about 700 feet to the west. The canal which runs to the north and north east in this area is currently dry.

Approximately 200 gallons per minute from the test discharge will be delivered to the Eagle Hill Golf Course through the temporary irrigation pipe used by the driller to obtain drilling water from the golf course well. This is necessary to meet the golf course's needs for pond make up water during the test period to avoid having to turn on the pump in the existing well next to observation well 4.

Test Duration

The intent is to conduct a long term, constant discharge pumping test. The initial specific capacity and step testing will help determine the long term pump rate. The initial proposed test duration is 30 days. Events during the test may dictate a shorter test but a test longer than 30 days is not anticipated. Examples of events that may shorten the test are: pump and/or power failures of disruptive length and far enough into the test that the objectives of the test have been meet, or stabilization of pumping or observation well water levels.

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The initial evaluation is that the test must be conducted for a minimum of 7 to 10 days in order to overcome effects of gravity drainage, partial penetration of observation wells and to propagate aquifer response to the nearest wells.

Depending on how far into the test and for what duration interruptions of pumping occur they may cause the test to be aborted. If the test has to be aborted it will be restarted from time zero after a suitable recovery period. The test could continue if short interruptions occur late in the test.

Monitoring

Well discharge rate will be measured by orifice plate or inline flow meter but is yet to be determined. Water levels will be measured by recorder and by hand in the observation wells. The pumped well will be equipped with either a recorder or an airline. Standard pumping test water level measurement frequencies will be used, ie. frequent at the start of the test and start of recovery becoming much less frequent as the test continues.

Recovery

After the pumping portion of the test is completed the pump will be shut off and the recovery of water levels in the aquifer will be monitored. The recovery portion of the test will last until water levels have recovered at least 90 % of the induced drawdown, if any.

Evaluation of Monitoring Network

The use of existing wells in this test limits the test to long duration because the nearest well is about 1,300 feet east and only penetrates the top of aquifer. The next nearest well is about 2,500 feet south. Consequently it could take more than a day of pumping before any effect is noticeable. Simulations completed assuming the aquifer behaves as a single unconfined water table aquifer predict drawdowns of less than 1 foot after 1 day at distances of 1,300 to 2,500 feet. There is however considerable uncertainty in how this well and aquifer will behave given the deep screen setting and thin bedded sands and clays.

After the step test is conducted additional aquifer response simulations using actual achievable pumping rates and approximate effective aquifer characteristic's will be made. Based on these refined simulations the proposed observation wells will be re-evaluated. If the existing wells are not suitable one or more new wells specifically located and constructed as observation wells may be desirable. It is anticipated that new well(s), if drilled would be about 100 and 500 feet radial distance from the production well.

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Table 1

Floating Feather Hills, Inc.
Proposed Pumping Test Observation Wells

Well No.	Diam.	Depth	Owner/Occupant	Use
1	16	415	Floating Feather	Production Well
2	4	75	Harley Carson	Not used
3	6	~300	Hormachea	Irr., Not in use
4	8	~200	Eagle Hills Golf Course	Not used
5	4	~90	Carl Raasch	Not Used
6	10	~270	Harden #1	Irr., Not in use
7	6	~200	Robert Day	Not used
8	8	~700	Steve Caron	Irr., Not in use
9	?	250	USGS/IDWR	Observation well
E-1	4?	UK	Prohaska renter	Shallow, Domestic
E-2	6?	UK	Prohaska/Chase	Domestic, deepened recently
E-3	6?	300	Prohaska	Domestic
E-4	?	UK	?	Domestic

CFFTOWN/DESIGN.WP/HG

1991

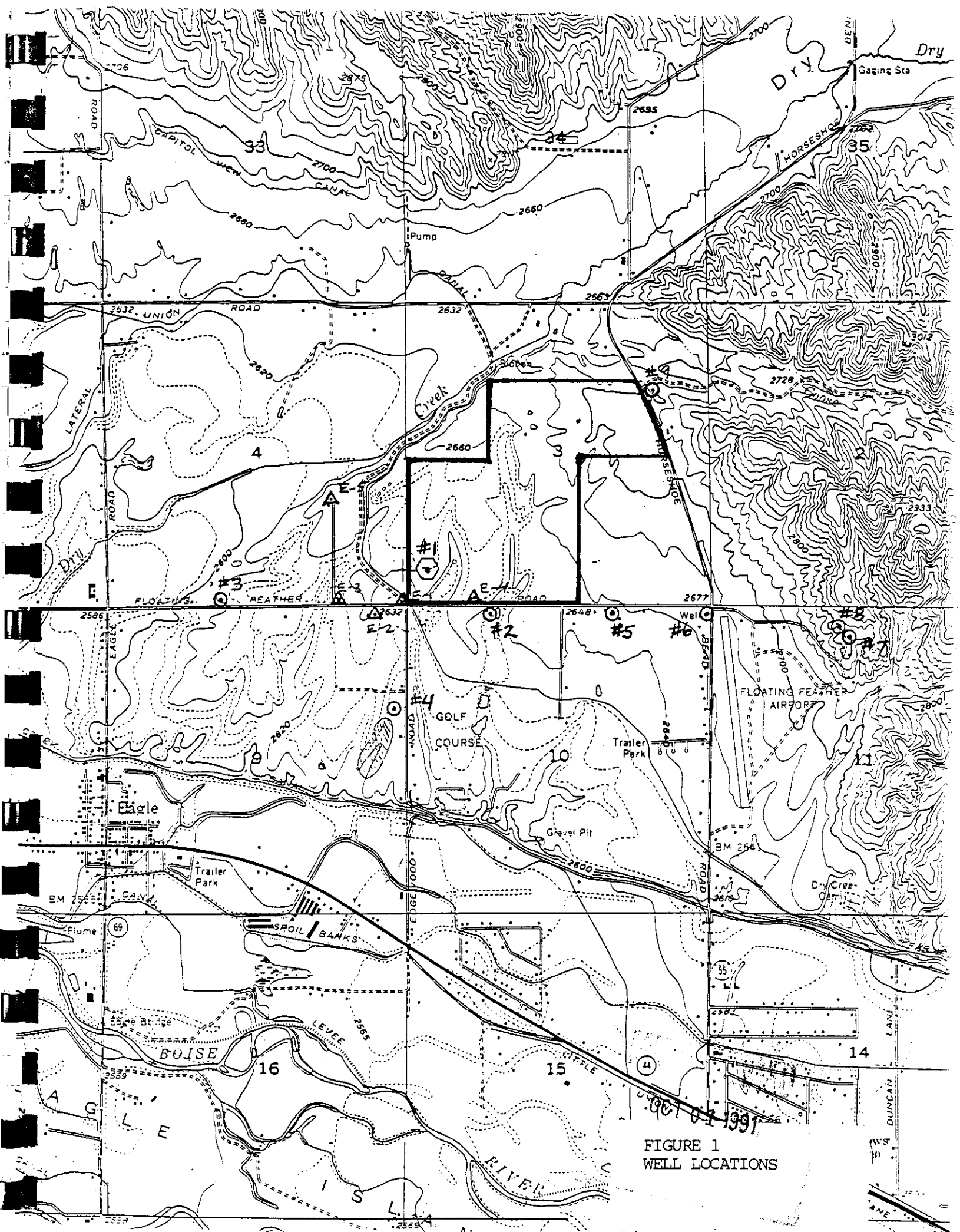


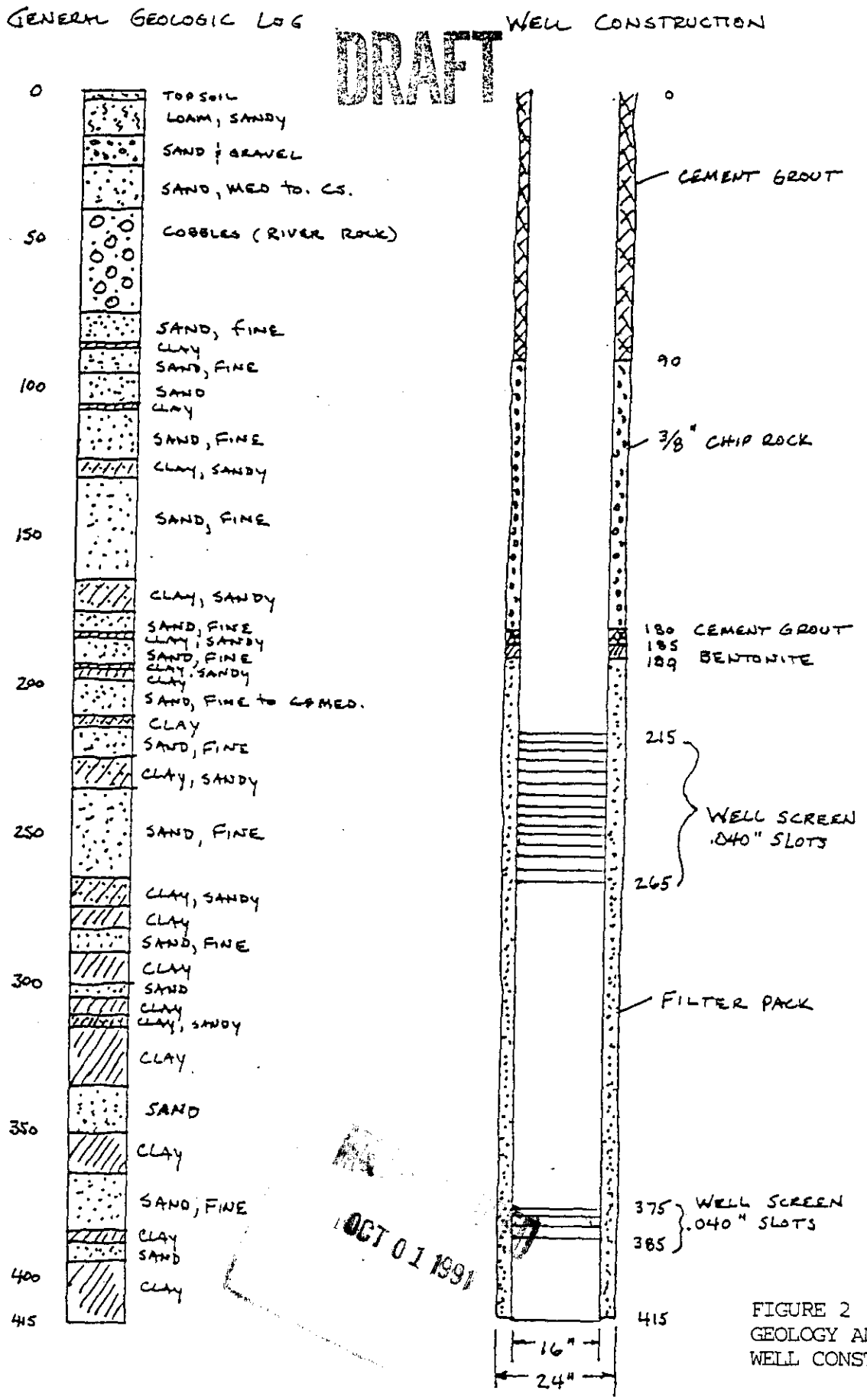
FIGURE 1
WELL LOCATIONS

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SUBJECT PRELIMINARY GEOLOGIC LOG AND WELL CONSTRUCTION BY C. FEAST DATE 3/6/91

SHEET 1 OF 1

FLOATING FEATHER HILLS INC. PROJECT NO. 801 31684.A1



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FIGURE 2
GEOLOGY AND
WELL CONSTRUCTION

1/

Feb 13, 1991 Meeting

Notes Re: Floating Feather Hills, Inc. Notes by: D. Tuthill

Sherl Chapman:

1. Drill 16" well to 400' 1000 to 2000 gpm
   Screen 40-60'
   Short term pump test to determine yield
   Long term pump test at 80% - 90% of yield

   Obsrvn wells in secs 4, 9, 3
   Also, wells in Sage Acres Area

   BSU (Wood) has been conducting geophysical logging at Sage Acres
   Reverse Rotary well, to be drilled by Pete Cope to 400' deep
   Design of test & conduct to be done by Sherl & Chuck Feast
   30 day test anticipated
   Drill within next 1 to 2 weeks.
   Well to be completed within a week.
   Also, intermittent well depth-to-water tests on neighbors' wells

   Monitoring wells - 3
   Addl: Harley Carson - old well
   Irrigation well at Floating Feather & Horseshoe Bend Hwy (Ted Persons)
   Persons domestic well 700-800' S. of irr well
   Rosh property 3/8 mi west of Hwy 55 on Floating Feather

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2. Purpose of monitoring wells -
Deep and shallow
Golf course well ≈ 160

→ Add Dennis Southerland to the distribution list.

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Meeting Re: Floating Feather Hills Inc
Drilling and Testing Procedure
2/13/91 10:30 am IDWR Conf Rm

Name	Representing
+ Dan Brown, P.E.	Boise Water Corp.
+ Bill Pardew P.E	Water User
+ J. L. Persons	Water User
Sheri Chapman	Applicant
Charles Feast	Applicant
+ Dave Roylance	Applicant
+ Sean Baker	IDWR
+ Alan Robertson	"
+ Paul Castelin	IDWR
Helen Pardew	Water User
+ Harley Carson	Self
+ Jack Kelly	JMM

NORTH EAGLE AREA

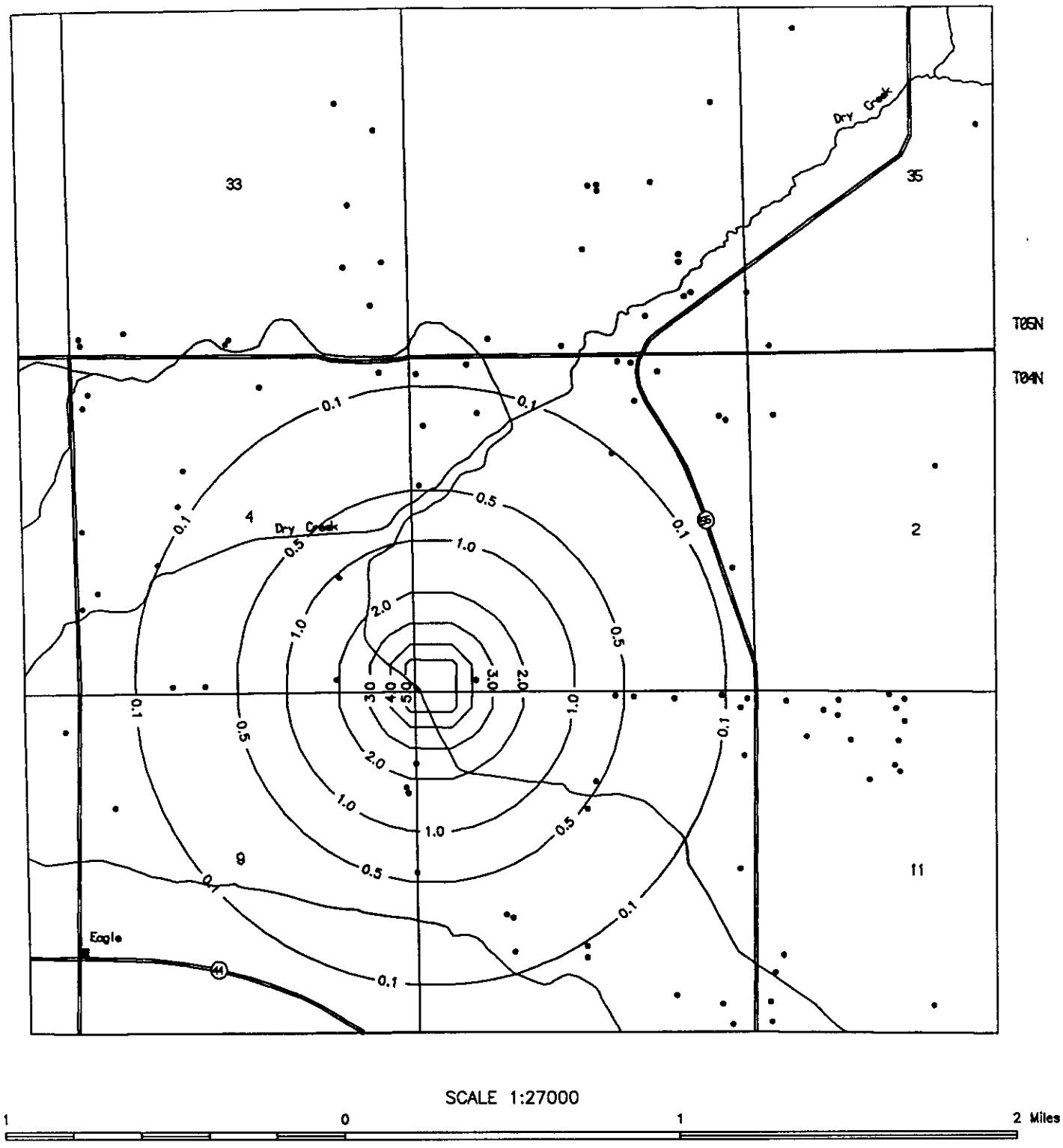


Figure 1. AQUIFER TEST SIMULATION: Q = 1000 gpm; t = 30 days; T = 10,000 sq ft/day; S = .1

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NORTH EAGLE AREA

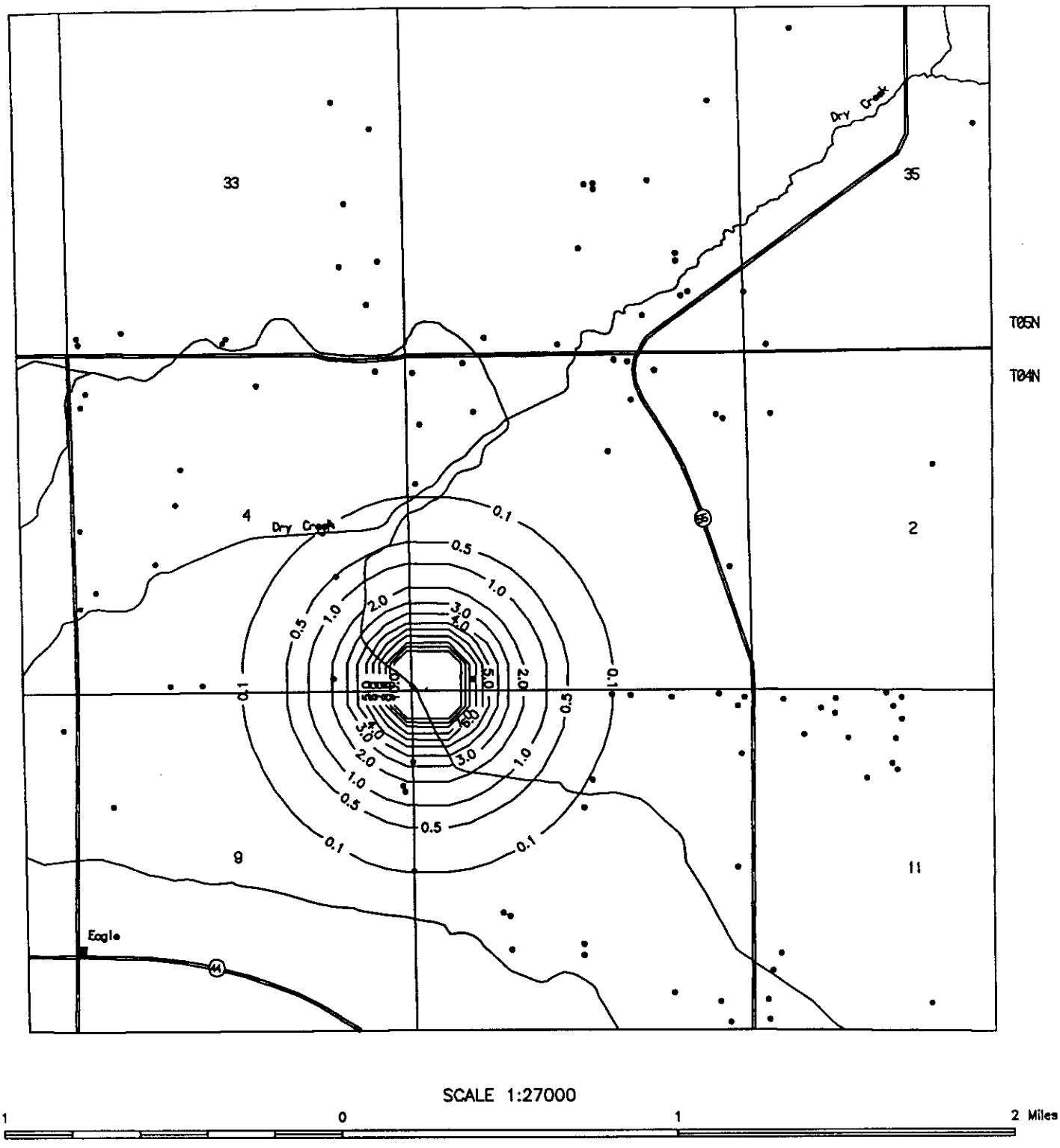


Figure 2. AQUIFER TEST SIMULATION: Q = 1000 gpm; t = 30 days; T = 2,500 sq ft/day; S = .1

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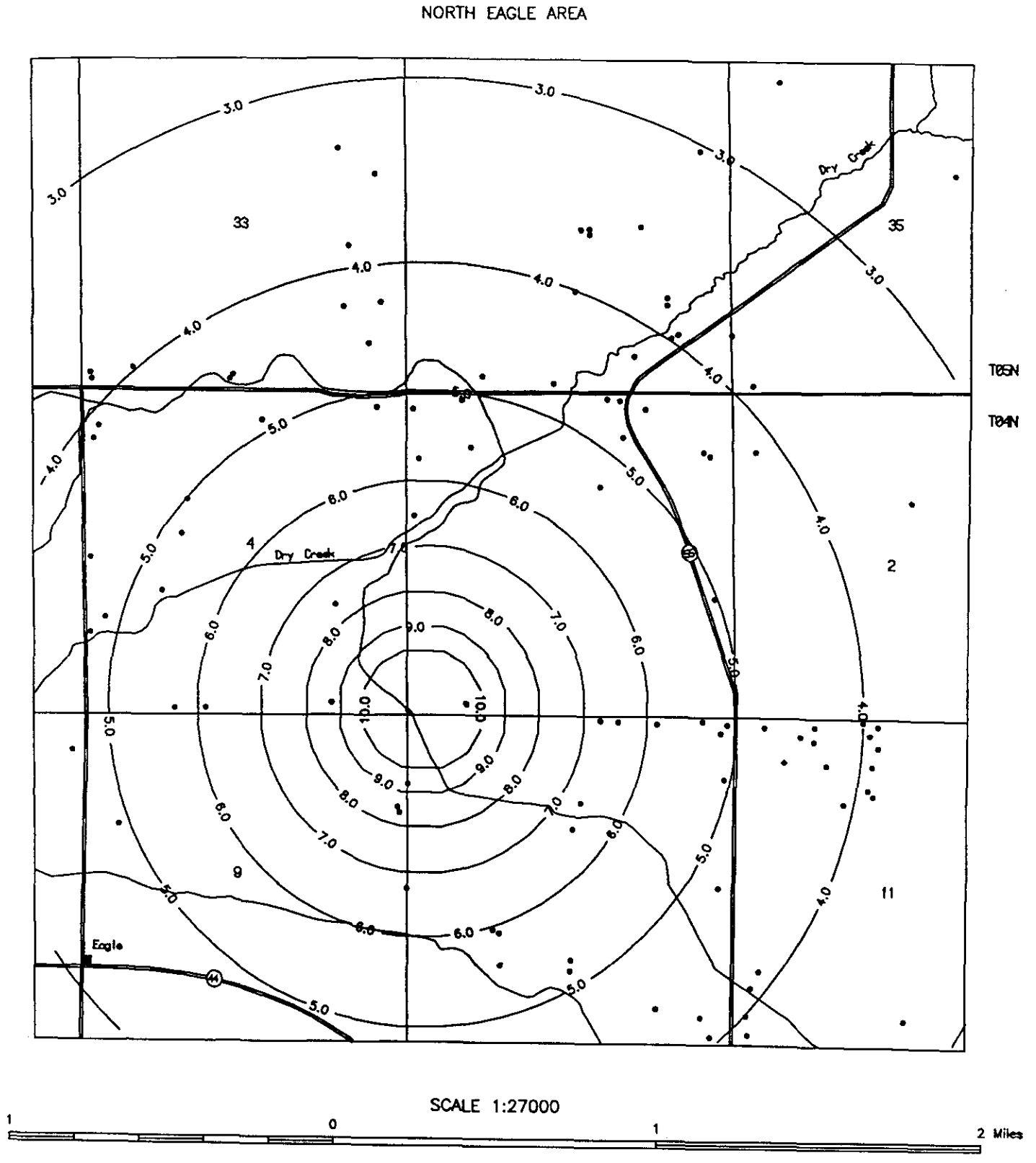


Figure 3. AQUIFER TEST SIMULATION: Q = 1000 gpm; t = 30 days; T = 10,000 sq ft/day; S = .001

NORTH EAGLE AREA

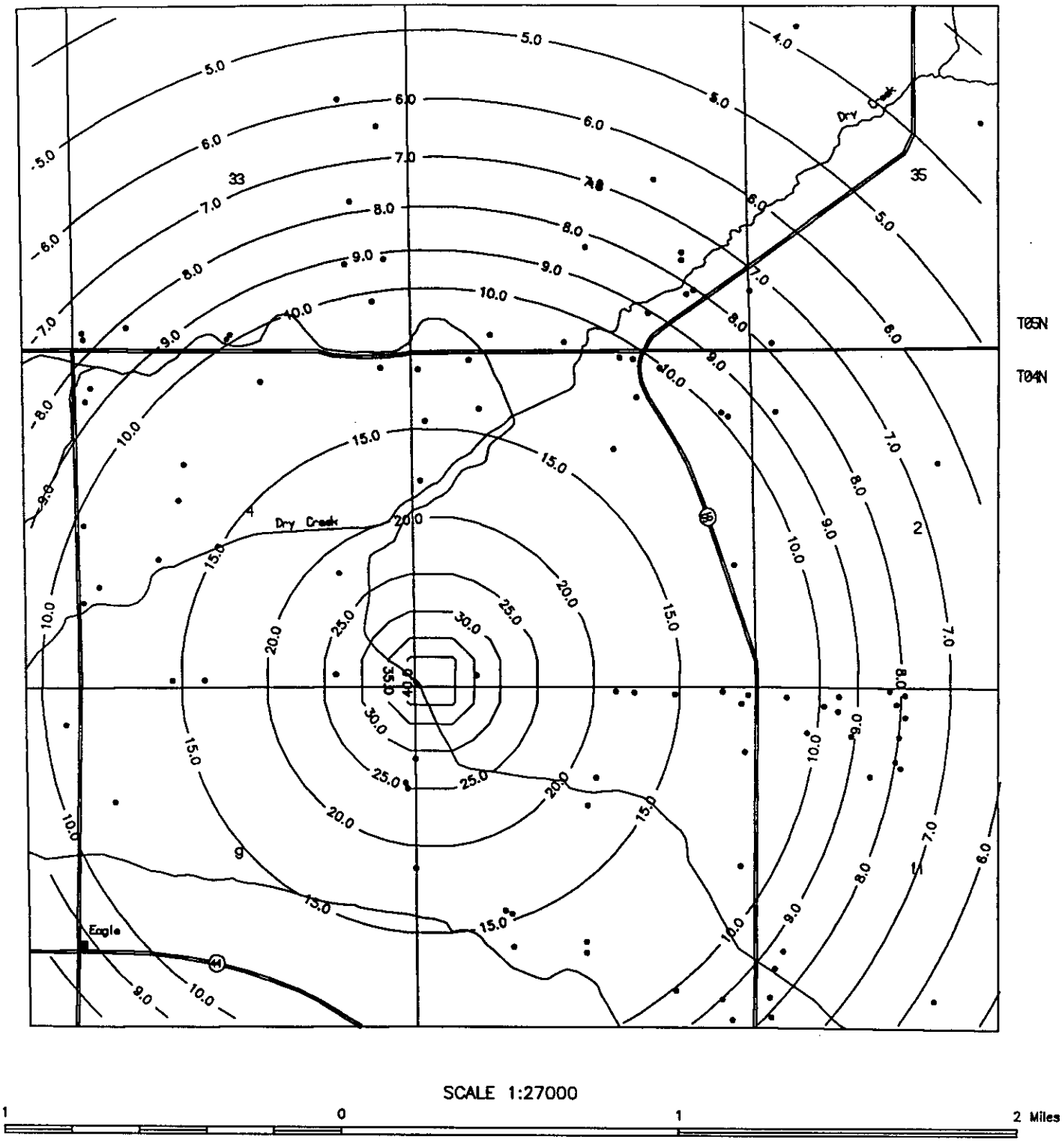


Figure 4. AQUIFER TEST SIMULATION: Q = 1000 gpm; t = 30 days; T = 2,500 sq ft/day; S = .001

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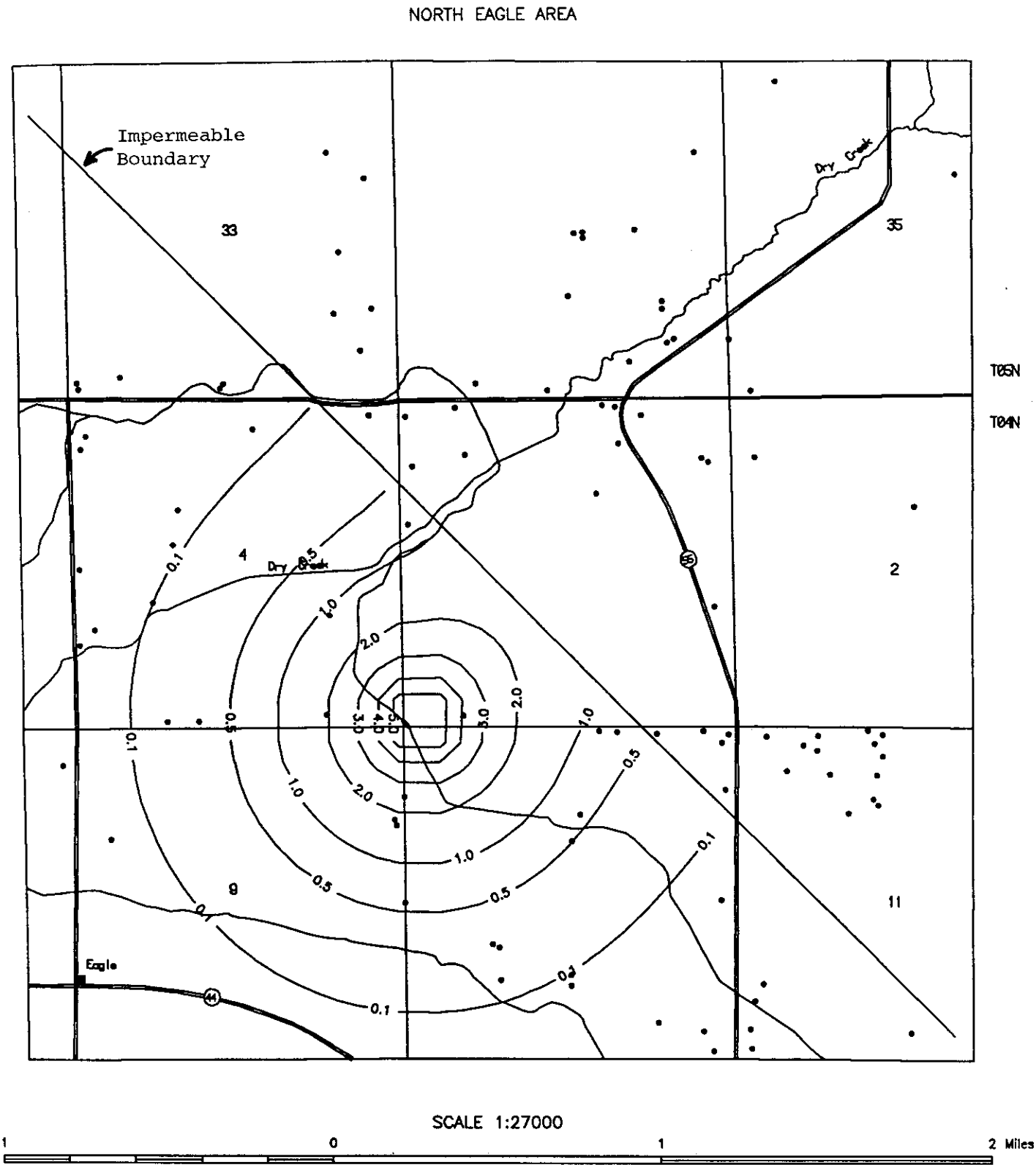


Figure 5. AQUIFER TEST SIMULATION: Q = 1000 gpm; t = 30 days; T = 10,000 sq ft/day; S = .1

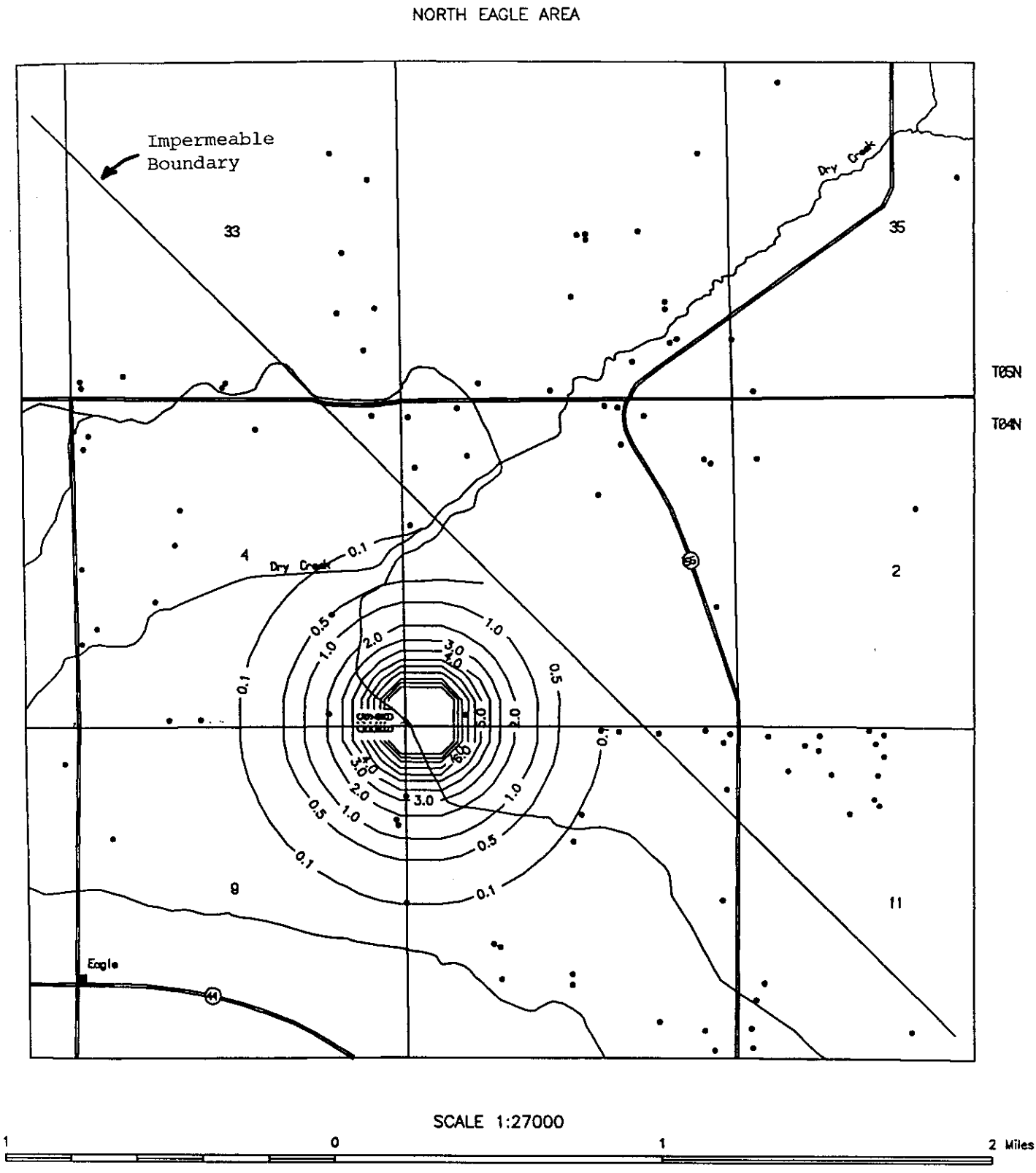


Figure 6. AQUIFER TEST SIMULATION: Q = 1000 gpm; t = 30 days; T = 2,500 sq ft/day; S = .1

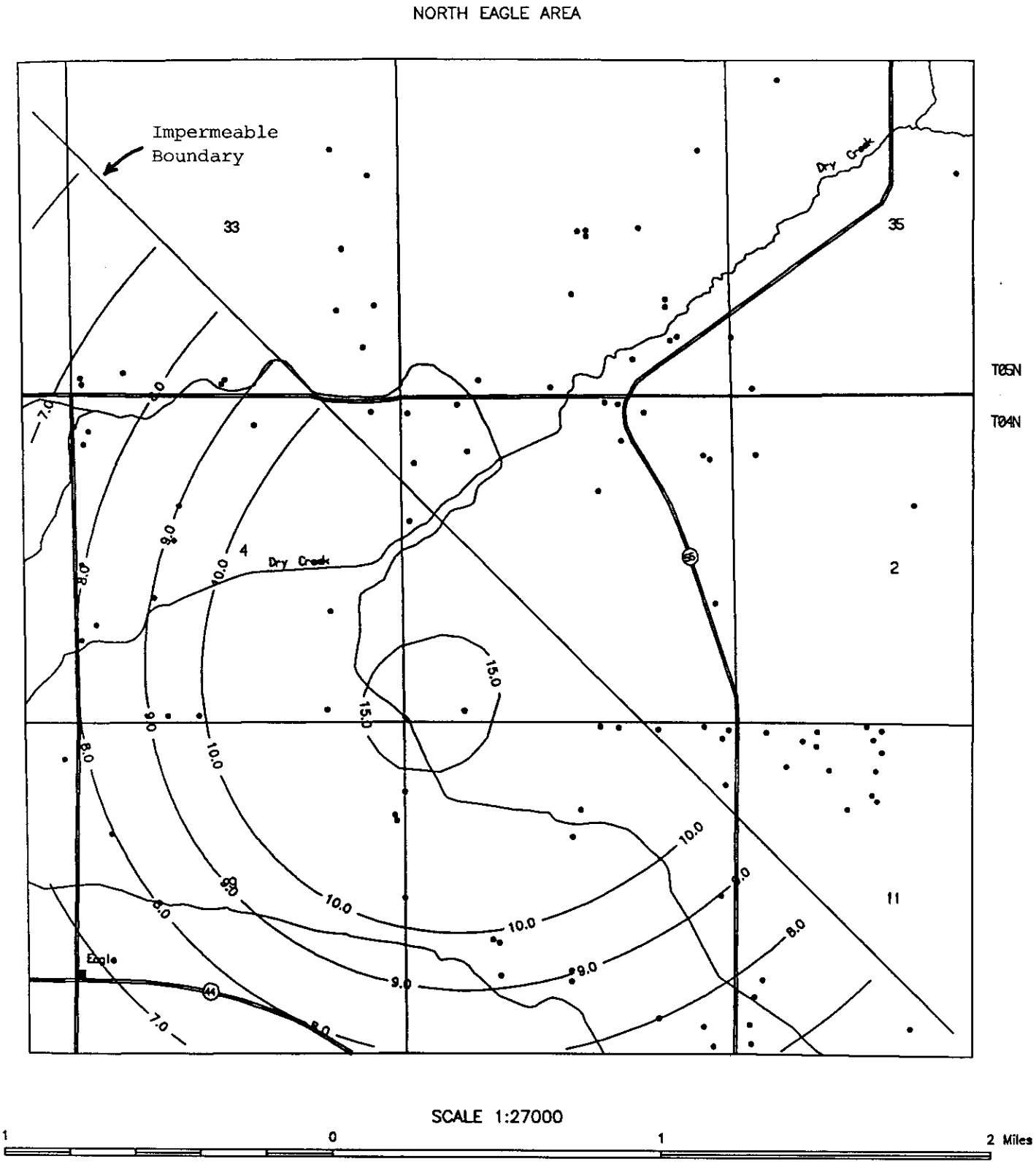


Figure 7. AQUIFER TEST SIMULATION: Q = 1000 gpm; t = 30 days; T = 10,000 sq ft/day; S = .001

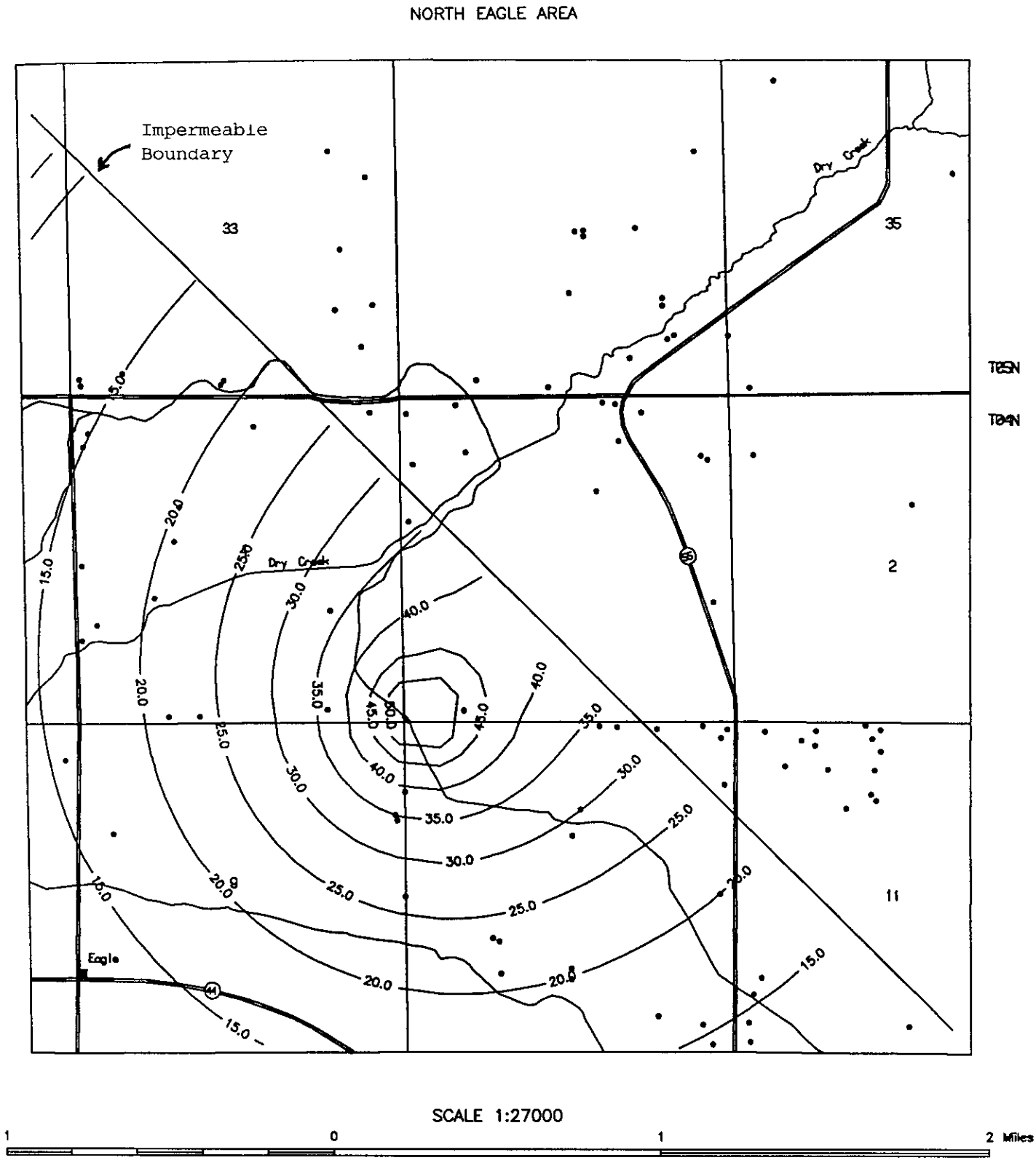


Figure 8. AQUIFER TEST SIMULATION: Q = 1000 gpm; t = 30 days; T = 2,500 sq ft/day; S = .001

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705 - (208) 334-2190

CECIL D. ANDRUS
GOVERNOR
R. KEITH HIGGINSON
DIRECTOR

February 6, 1991

Distribution: See Attached List

RE: Ground Water Investigations in the Boise River Basin

Dear Interested Party:

There are presently two matters before this agency relative to ground water investigations in the Boise River Basin. First, Floating Feather Hills, Inc. will be conducting a well test in the Eagle Terrace Area this spring, in aid of demonstrating the availability of ground water for appropriation for a new subdivision. Second, this Department and other interested parties are exploring the possibilities of commencing a ground water geochemical data collection program near the Boise River in the vicinity of the City of Boise, for the purpose of identifying signature geochemical parameters for the geothermal and non-geothermal aquifers in the area. The purpose of this letter is to invite you to attend one or both of these meetings.

In conformance with the information presented by representatives of Floating Feather, Inc. at a public meeting held on January 24, 1991, preparations are now underway for drilling a test/production well. Drilling is scheduled to begin soon, and the meeting to review drilling and testing procedures will be held on **Wednesday, February 13, 1991**, at 10:30 am in the second floor conference room of the Idaho Department of Water Resources, 1301 N. Orchard, Boise.

Last month representatives of the Department met with Mr. Bill Young of the USGS to discuss methods of using geochemical analyses to differentiate the ground water aquifers in the Boise River basin. He is presently developing a proposal for a data collection effort within the City of Boise to obtain standardized geochemical and isotopic data. In an effort to ensure that the data serves a wide variety of uses, and to investigate funding sources for data collection, potentially interested parties are invited to attend a meeting to discuss the data collection proposal. This meeting will be held on **Friday, February 22, 1991**, at 10:30 am in the conference room identified above.

The attached list identifies potentially interested parties for both meetings. Identified parties, and any other interested persons, are invited to attend.

Sincerely,

David R. Tuthill Jr.

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office

FEB 01 1991

Interested Parties

Floating Feather Hills, Inc. Well Test

David Roylance, Engineer for Floating Feather Hills, Inc.
Sherl Chapman, Geologist for Floating Feather Hills, Inc.
Bill Pardew, Local Wateruser
Ted Persons, Local Wateruser
Will Burnham, Boise Basin Geologist
Alan Robertson, IDWR Section Supervisor
Steve Baker, IDWR Geologist
Spencer Wood, BSU Professor and Geologist
Ed Squires, BSU Geologist

Boise River Basin Ground Water Geochemical Study

Bill Young, USGS Geologist
Dave Turner, City of Boise Representative
Dan Brown, Boise Water Corporation Engineer
John Priester, Ada County Engineer
Bob Griffiths, Boise Warm Springs Water District
Jack Kelly, Consultant for Boise Warm Springs Water District
Charles Brockway, Consultant for Boise Warm Springs Water District
Will Burnham, Boise Basin Geologist
Alan Robertson, IDWR Section Supervisor
Paul Castelin, IDWR Section Supervisor
Steve Baker, IDWR Geologist
Spencer Wood, BSU Professor and Geologist
Ed Squires, BSU Geologist
Gary Winter, IDHW-DEQ Hydrogeologist

OCT 01 1987

Floating Feather Well
Test & Geoth. Study

Ed Squires
BSU Dept. of Geology
1910 University Drive
Boise, ID 83725

Paul Castelin
ID Dept. Water Resources
Statehouse
Boise, ID 83720

David Roylance
4227 W. Emerald
Boise, ID 83616

Bill Young
U.S.G.S.
230 Collins Rd.
Boise, ID 83702

Sherl Chapman
410 N. Orchard
Boise, ID 83705

Dave Turner
Boise Public Works
150 N. Capitol
Boise, ID 83702

Bill Pardew
P.O. Box 699
Eagle, ID 83616

Dan Brown
Boise Water Corp.
8248 W. Victory Rd.
Boise, ID 83709

Ted Persons
11133 Hwy 55
Boise, ID 83703

Ada County Engineer
John Priester
650 Main St.
Boise, ID 83702

Will Burnham
3220 Victory View Dr.
Boise, ID 83709

Bob Griffith
2411 Elmcrest Land
Boise, ID 83705

Alan Robertson,
ID. Dept. Water Resources
Statehouse
Boise, ID 83720

Jack Kelly
Montgomery Engineers
161 E. Mallard
Boise, ID 83712

Steve Baker
ID. Dept. Water Resources
Statehouse
Boise, ID 83720

Charles Brockway
706 Sunrise Blvd. N.
Kimberly, ID 83341

Spencer Wood
BSU Dept. of Geology
1910 University Drive
Boise, ID 83725

Gary Winters
H & W, DEQ
Statehouse
Boise, ID 83720

1981

FLOATING FEATHER HILLS, INC.

RECEIVED
FEB 08 1991
Department of Water Resources
Western Regional Office

February 6, 1991

Water Resources Board
2735 Airport Way
Boise, ID 83705

Attn: Steve Lester

RE: Floating Feather Hills Inc.

Dear Steve:

Per your request, following is the approximate size of the ponds in the common areas:

Pond #1 - 15,000 c.f.
Pond #2 - 42,000 c.f.
Pond #3 - 42,000 c.f.

The ponds will be clay lined.

Per our conversation, our application as submitted is sufficient to cover the storage required for these ponds.

If you have anymore questions or need more information, please do not hesitate to call.

Sincerely,

FLOATING FEATHER HILLS, INC.

Georgia Mackley

Georgia Mackley

:gm

CC: Floating Feather Hills/
Partners

OCT 01

2417 BANK DRIVE, SUITE 101 • BOISE, IDAHO 83705 • (208) 343-6500

CONVERSATION MEMORANDUM

DATE 2/5/91

FILE 63-11413

NAME OF PARTY Georgia Markley 343-6500

EMPLOYEE Steve Lester

RE: Storage on Application?

G.M. called with an estimate of the anticipated storage volume. It is estimated that 3 clay-lined ponds will occur

pond 1	≈	15000 ft²
pond 2	≈	42000 "
pond 3	≈	42000 "
Total		99000 ft³ = 2.3 a.f.

~~Company the minimum use on appl. (domestic, 2 units~~

Per conv. memo of 1/28/91, ≤ 6 a.f./24 hrs. is considered a detail of the system and **does not require storage.**

She will send a letter outlining this info.

OCT 01 1997

CONVERSATION MEMORANDUM

DATE 1/28/91

FILE 63-11413

NAME OF PARTY Georgia Markley 343-6500

EMPLOYEE Glen Lester

RE: Storage ?

1/25 - left message

1/28 - a.m. She returned my call
- discussed storage
- She will check & let me know today or very soon

ISSUE - 1/24/91 info mtg at Hall of Mirrors:
D. Roylance mentioned possible use of well(s) for pond(s) in development area.
If so, may need to amend appl. to include storage.

Appl. shows
2 cfs irrig 3/15 - 11/15 → 4 A.F. (24 hr.
1 " dom. 1/1 - 12/31 → 2 "
2 " fire p " " → 4 " "

Therefore - ≤ 6 a.f. storage 1/1-12/31 can be covered by flow rate
additional 4 a.f. can be covered during irrig. season

2/1/91 - Georgia called to see if D. Roylance sent/called with info about ponds. Nothing received yet. She will take care of this.

INTER-DEPARTMENT MEMO

TO: Steve Baker

FROM: Dave Tuttle

SUBJECT: Floating Feather

DATE: 11/25/91

The meeting went fine - agenda is attached.

I'll be happy to brief you re: Status when you are ready

(X) For your information

( ) Response required

Dave
signature

DEPARTMENT OF WATER RESOURCES
WESTERN REGION
2735 AIRPORT WAY, BOISE, ID 83705

A G E N D A

FOR MEETING REGARDING PROTESTED APPLICATION FOR PERMIT NO. 63-11413

IN THE NAME FLOATING FEATHERS HILLS, INC.

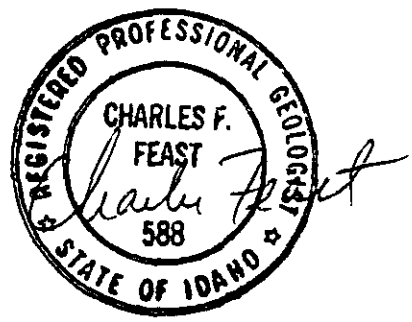
Place: J. R. Williams Bldg., East Conference Room, 700 W. State, Boise, ID.

Date and Time: January 24, 1991, at 7:30 P.M.

1.	Introduction and Issues Before IDWR	Dave Tuthill
2.	Application and Proposed Project	David Roylance
3.	Status of Hydrologic Investigation	Dave Tuthill for Steve Baker
4.	Interpretation of Geologic Information	Dr. Spencer Wood, BSU
5.	Collection of Additional Data	Sherl Chapman
6.	Concerns of Protestants	Protestants
7.	Summary	

OCT 0 1 1991

Floating Feather Hills, Inc.
Preliminary Pumping Test Design



Prepared by:

CH2M HILL

March 8, 1991

OCT 01 1991

Floating Feather Hills, Inc.
Preliminary Pumping Test Design

Introduction

Floating Feather Hills, Inc. (FFHI) has applied for a permit to withdraw groundwater for public water supply at their proposed housing development in Section 3, T4N, R1E, northeast of Eagle, Idaho as shown in Figure 1.

More than 70 protests were filled by existing well owners in the area because of concerns over aquifer depletion and interference to senior groundwater rights. In response to these concerns FFHI agreed to installed a test/production well and conduct a long term pumping test.

The objectives of the test are to determine aquifer properties and to evaluate potential interference with existing wells in the area. This document describes the proposed long term pumping test to be conducted on the Floating Feather Hills, Inc test/production well.

Test Well Construction

The test/production well is located in the SW1/4, SW1/4 of Section 3, T4N, R1E. The 24 inch diameter well bore was drilled between March 2 and March 4 to a depth of 415 feet by Pete Cope Well Drilling using reverse circulation drilling methods. On March 5 the well bore was geophysically logged by Spencer Wood, Department of Geology, Boise State University.

Mr. Sherl Chapman, consultant for FFHI, evaluated the drill cuttings and drillers log to design the well casing and well screen schedule. An abbreviated geologic log and construction diagram the production well are shown on Figure 2. The well was completed with 16 inch diameter steel casing and a total of 60 feet of .040 inch slot well screen adjacent to permeable formations. Screen intervals selected by Mr. Chapman were from 215 to 265 feet and from 375 to 385 feet. The well was completed on March 7.

As of the time this Pump Test Plan was prepared the well had not been developed or test pumped to determine approximate well yield. The proposed pumping rate is 1,000 gpm. Expected static water level is 65 to 75 feet below ground level.

Aquifer Evaluation

The formation consists of bedded sands and clays. The sands are predominantly fine grained. Thin clay beds and moderately thick sandy clay and finely bedded clay and sand intervals separate the permeable sand beds. Considering the depth of the screen intervals and the highly stratified nature of the aquifer it is anticipated that the aquifer will respond as a leaky artsian or water table aquifer with considerable delayed yield.

Preliminary aquifer characteristics therefore are:

Transmissivity

100,000 gpd/ft^2 for entire saturated aquifer
24,000 gpd/ft^2 for the screened interval

Storage Coefficient = .001.

Total thickness = 328 feet

Screened interval = 60 feet

Observation Wells

The observation wells proposed for this test consist of existing wells ranging from about 1,300 to 7,500 feet from the well. Figure 2 shows the locations of the proposed monitoring wells and Table 1 describes them. All of these wells are domestic or irrigation wells except for well No. 9 which is a joint USGS/IDWR observation well. None of the wells are in use although several have wells nearby that are used.

Most of the wells are oriented east - west along Floating Feather Road. The USGS well and the Eagle Hills Golf Course well are to the north east and south respectively. Two wells are located in the Sage Acres Subdivision east of Highway 55.

Three of the proposed observation wells have existing submersible pumps which will have to be pulled to allow equipping the wells with water level recorders. The pumps are tentatively scheduled to be pulled on Monday, March 7 pending final owner permission. Well depth will be confirmed on all observation wells.

OCT C 1 1991

Well No. 7 in Sage Acres, well No.4 in Eagle Hills Golf Course, and wells 2 and 3 east and west of the test well, respectively are candidates for water level recorders. Well No. 9, the USGS well is currently equipped with a recorder. The other wells will be monitored with well sounders. Pretest background water levels will start being measured Monday, March 11.

In addition to the observation wells several domestic wells the production well, wells E-1 through E-4, Figure 2, will be periodically monitored during the test if possible. The well owners have been contacted but no attempts have been made to gain access to these wells for purposes of measuring water levels.

Pretest Specific Capacity Pumping

On Tuesday, March 12, (tentatively scheduled) the production well will be equipped with a test pump and a step test will be conducted to determine the specific capacity. The step test will provide the information needed to select the long term pump rate. After this initial, short term test the final long term pump test can be designed.

Disposal of Discharge Water

Assuming agreement can be reached with the canal company pump test discharge water will be piped to the adjacent Farmers Union Canal about 700 feet to the west. The canal which runs to the north and north east in this area is currently dry.

Approximately 200 gallons per minute from the test discharge will be delivered to the Eagle Hill Golf Course through the temporary irrigation pipe used by the driller to obtain drilling water from the golf course well. This is necessary to meet the golf course's needs for pond make up water during the test period to avoid having to turn on the pump in the existing well next to observation well 4.

Test Duration

The intent is to conduct a long term, constant discharge pumping test. The initial specific capacity and step testing will help determine the long term pump rate. The initial proposed test duration is 30 days. Events during the test may dictate a shorter test but a test longer than 30 days is not anticipated. Examples of events that may shorten the test are: pump and/or power failures of disruptive length and far enough into the test that the objectives of the test have been meet, or stabilization of pumping or observation well water levels.

The initial evaluation is that the test must be conducted for a minimum of 7 to 10 days in order to overcome effects of gravity drainage, partial penetration of observation wells and to propagate aquifer response to the nearest wells.

OCT 1 1991

Depending on how far into the test and for what duration interruptions of pumping occur they may cause the test to be aborted. If the test has to be aborted it will be restarted from time zero after a suitable recovery period. The test could continue if short interruptions occur late in the test.

Monitoring

Well discharge rate will be measured by orifice plate or inline flow meter but is yet to be determined. Water levels will be measured by recorder and by hand in the observation wells. The pumped well will be equipped with either a recorder or an airline. Standard pumping test water level measurement frequencies will be used, ie. frequent at the start of the test and start of recovery becoming much less frequent as the test continues.

Recovery

After the pumping portion of the test is completed the pump will be shut off and the recovery of water levels in the aquifer will be monitored. The recovery portion of the test will last until water levels have recovered at least 90 % of the induced drawdown, if any.

Evaluation of Monitoring Network

The use of existing wells in this test limits the test to long duration because the nearest well is about 1,300 feet east and only penetrates the top of aquifer. The next nearest well is about 2,500 feet south. Consequently it could take more than a day of pumping before any effect is noticeable. Simulations completed assuming the aquifer behaves as a single unconfined water table aquifer predict drawdowns of less than 1 foot after 1 day at distances of 1,300 to 2,500 feet. There is however considerable uncertainty in how this well and aquifer will behave given the deep screen setting and thin bedded sands and clays.

After the step test is conducted additional aquifer response simulations using actual achievable pumping rates and approximate effective aquifer characteristic's will be made. Based on these refined simulations the proposed observation wells will be re-evaluated. If the existing wells are not suitable one or more new wells specifically located and constructed as observation wells may be desirable. It is anticipated that new well(s), if drilled would be about 100 and 500 feet radial distance from the production well.

OCT - 1 1991

Table 1

Floating Feather Hills, Inc.
Proposed Pumping Test Observation Wells

Well No.	Diam.	Depth	Owner/Occupant	Use
1	16	415	Floating Feather	Production Well
2	4	75	Harley Carson	Not used
3	6	~300	Hormachea	Irr., Not in use
4	8	~200	Eagle Hills Golf Course	Not used
5	4	~90	Carl Raasch	Not Used
6	10	~270	Harden #1	Irr., Not in use
7	6	~200	Robert Day	Not used
8	8	~700	Steve Caron	Irr., Not in use
9	?	250	USGS/IDWR	Observation well
E-1	4?	UK	Prohaska renter	Shallow, Domestic
E-2	6?	UK	Prohaska/Chase	Domestic, deepened recently
E-3	6?	300	Prohaska	Domestic
E-4	?	UK	?	Domestic

CFFTOWN/DESIGN.WP/HG

1991

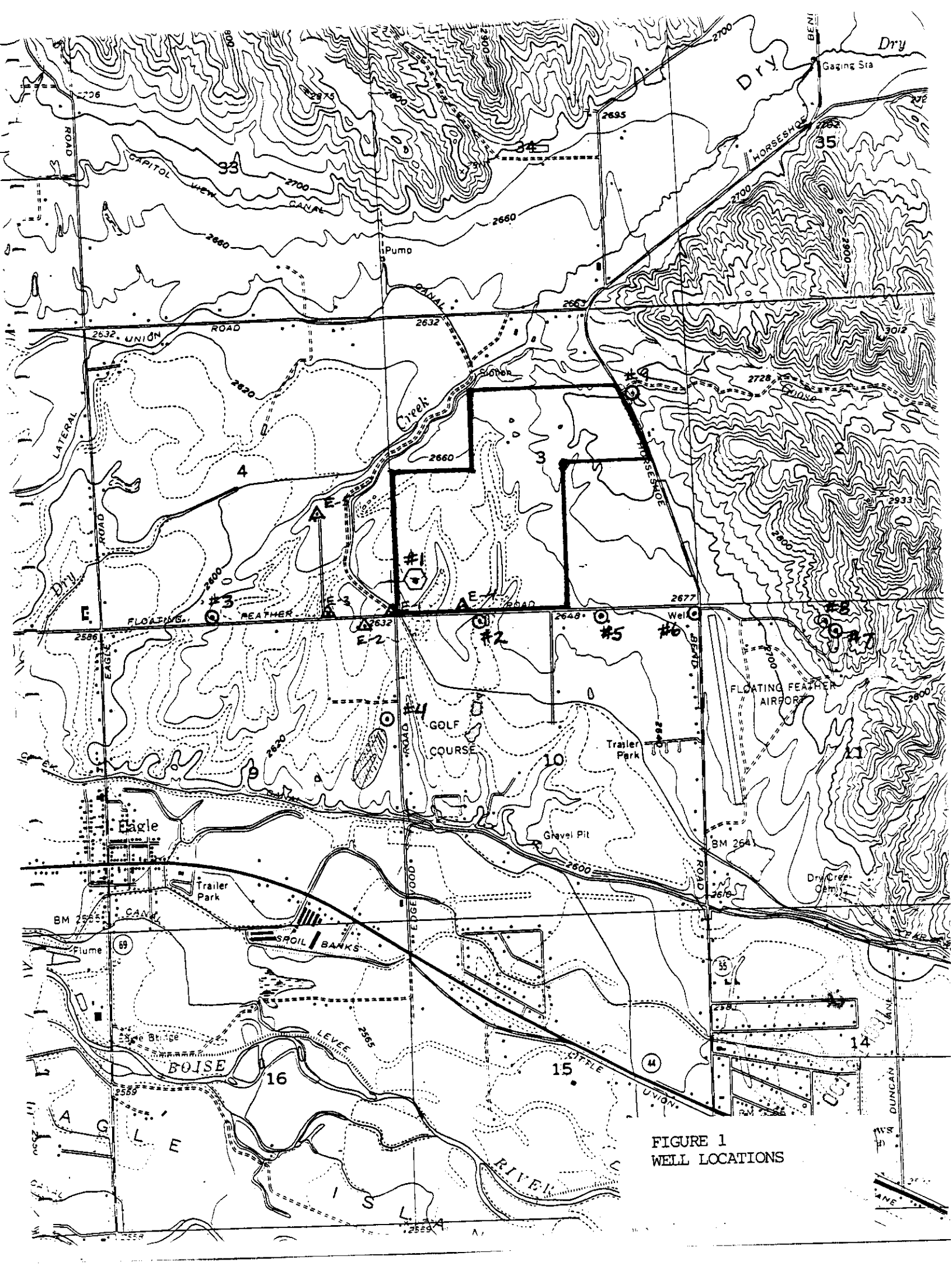


FIGURE 1
WELL LOCATIONS

SUBJECT PRELIMINARY GEOLOGIC LOG AND WELL CONSTRUCTION — C. FEAST — DATE 3/6/91

SHEET 1 OF 1

FLOATING FEATHER HILLS, INC. — PROJECT NO. 801 31684.A1

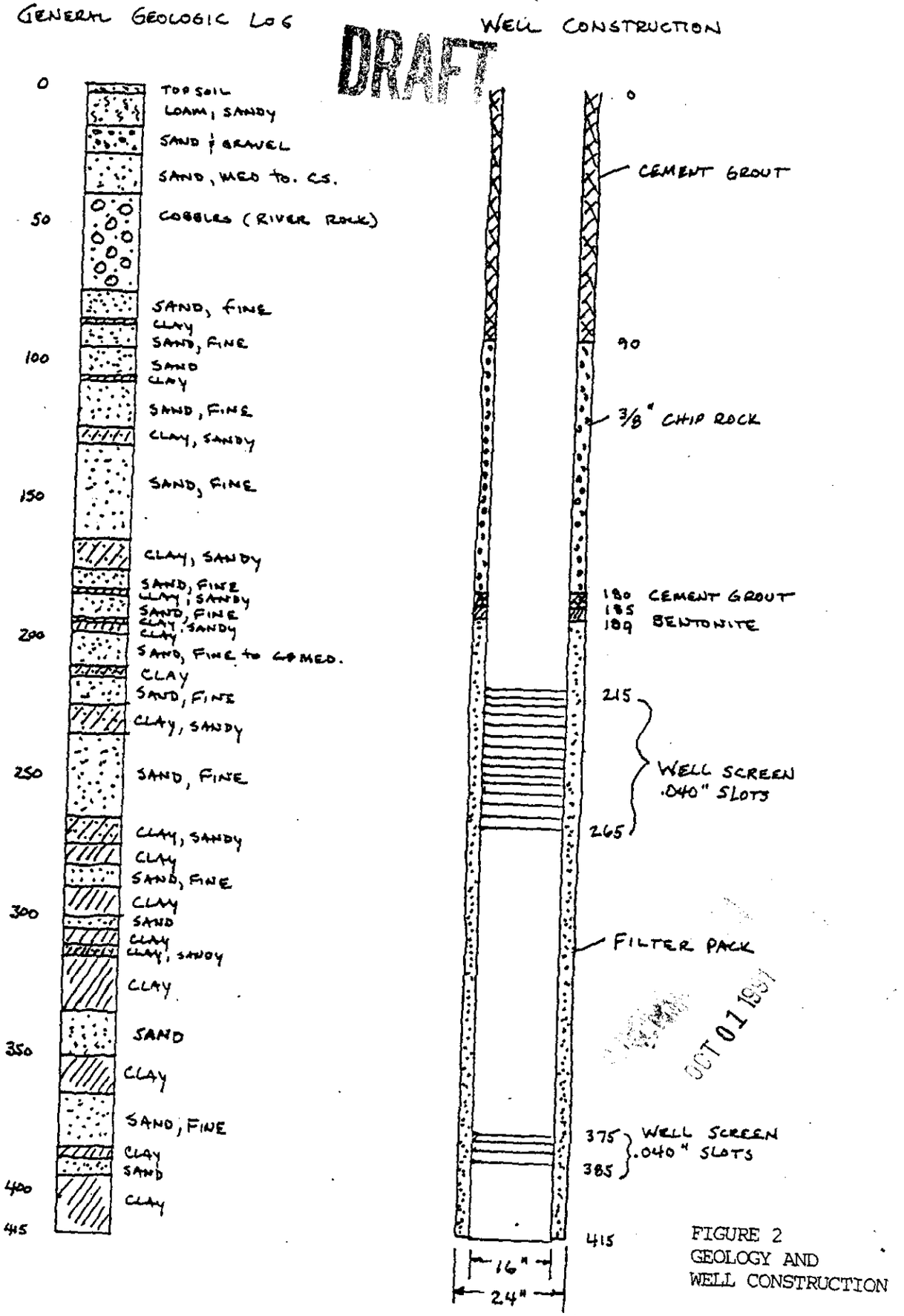


FIGURE 2
GEOLOGY AND
WELL CONSTRUCTION

Attendance Roster

Tues Mar 26 9:00 am

IDWR: Rob Whitney & Dave Tuthill

Name	Representing
F. L. Peterson	Floating Feather Hills ✓
Dave Roylance	✓
DENNIS WHITMORE	✓
Bryce Peterson	Water User
B. W. Parker	Floating Feather Hills
Harvey Neef	Floating ~~Feather~~ Hills
~~Steve Yost~~	

Floating Feather

Combination:

3+R 9

L Pat O 39

R 5

148'

drawdown of 4"

at neighboring well

Holgate - 2 10Tg

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Starts at 9:00 am Tues 26 Mar 91

Motor Hollosha ft 60 HP 1800 RPM

McCrometer In-flow line meter

78677500 gal
78679400 gal after test

Power Meter Reading: 00007

R 4 17/27 200 CL 240 V 4WY FM-16S V-64-S/1 T_A 30 60Hz

K_h 43.2

3 Stator watthour meter Cat No 701X1369

86 243 615 277/480 V 11/90

Pressure gauge line is 189' below gauge

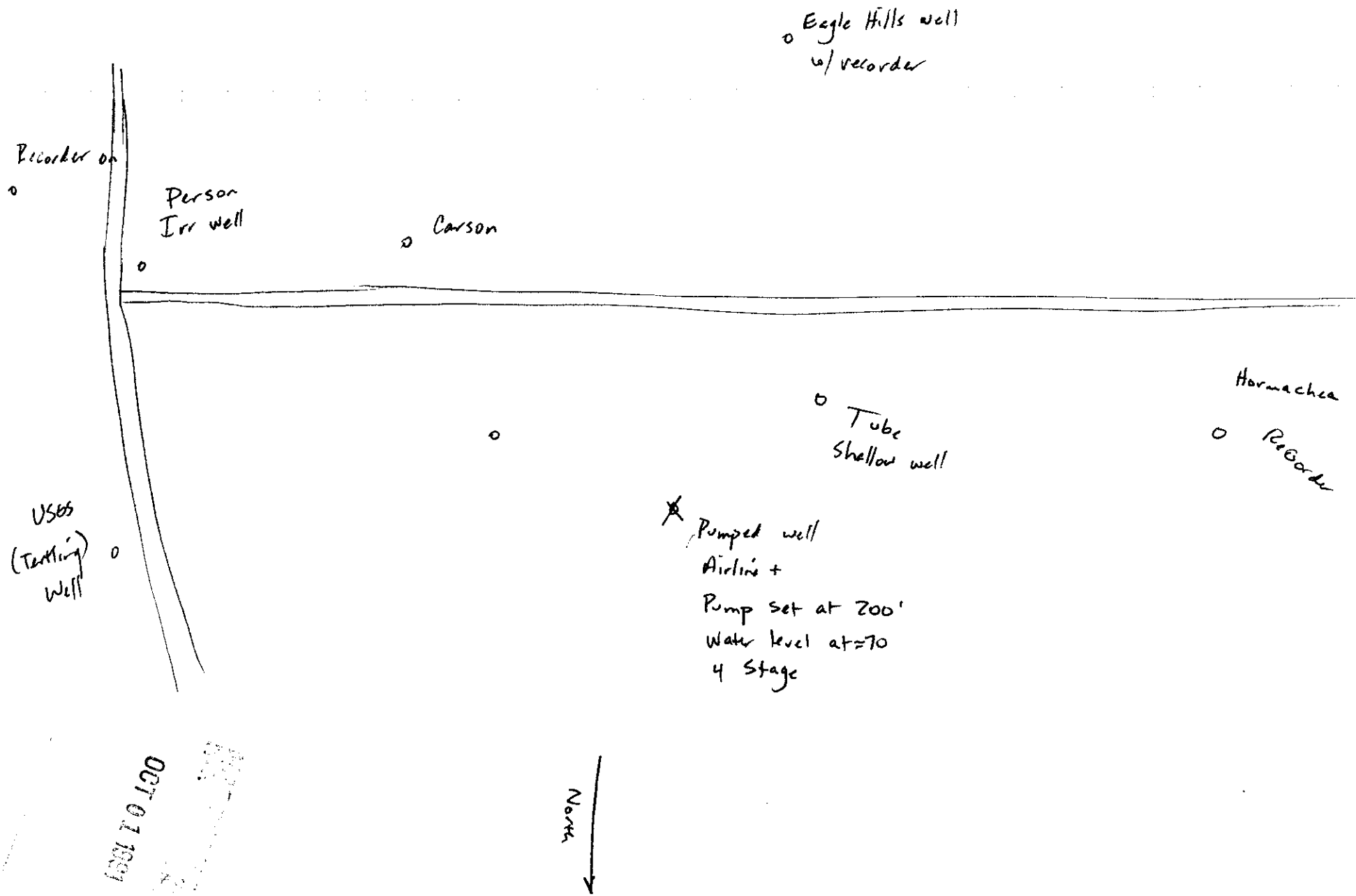
This gauge is located about 1' above measuring point of well sounder pipe

Pump is 4 S tage Full diam impellers Tait Pump 10 E c#

after 15 min, flow meter is 786
78692200
79400
12,800 = 853 gpm

30 min 787030

OCT 01


Eagle Hills well
w/ recorder
Recorder on
Person
Irr well
Carson
Hormachea
Tube
Shallow well
Recorder
USGS
(Testing)
Well
Pumped well
Airline +
Pump set at 200'
Water level at=70
4 Stage
North

Pump Test data

Start	74'
30 sec	110'
1 min	118
1 min 30 sec	122
9 min	136
15 min	142
25 min	145

SCHEDULE
FLOATING FEATHER HILLS PUMPING TEST

START: MARCH 26, 1991; ~10:00 AM
SCHEDULED DURATION: 30 DAYS
PUMPING RATE: 750 GALLONS PER MINUTE
OBSERVATION WELLS: SEE TABLE 1
DISCHARGE MEASUREMENT: TOTALIZING FLOW METER
DISCHARGE POINT: FARMERS UNION CANAL, APPROXIMATELY 400 FEET WEST

DESIRED FREQUENCY OF WATER LEVEL MEASUREMENTS:

PUMPED WELL	0 - 10 min.	.5 - 1 min.
	10 - 15 min.	1 min.
	15 - 60 min.	5 min.
	60 - 300 min.	30 min.
	300 - 1440 min.	60 min.
	1440 - EOT	480 min. (8 hr.)
OBS. WELLS	0 - 60 min.	2 min.
	60 - 120 min.	5 min.
	120 - 240 min.	10 min.
	240 - 360 min.	30 min.
	360 - 1440 min.	60 min.
	1440 - EOT	480 min. (8 hr.)

RECORDERS 2 day charts, check daily, change every 40 hours

STAFF NEEDS:	Pumped well	continuous 1st 300 min.
	Holgate	continuous 1st 60 min.
	Holgate/Carson	continuous 60 - 120 min.
	Eichhorn	continuous 1st 60 min.

120 to 360 minutes one person can do all obs. wells including Floating Feather Irr. #1.

360 to 1440 minutes one person can do all wells

1440 to EOT one person can do all wells each 8 hrs.

PERSONEL SCHEDULE:

FEAST	PUMPED WELL	0 - 120 mins.
	PW/EICHHORN	120 - 360 mins.
	ALL WELLS	360 - 1440 mins.
PARDEW	HOLGATE	0 - 60 mins.

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	HOLGATE/CARSON	60 - 240 mins.
	HOLGATE/CARSON FFH #1	240 - 360 mins.
FEAST/PARDEW	ALL WELLS	1440 mins. - EOT
OTHER	EICHHORN	0 - 120 mins.

CFFTOWN/DESIGN.WP/HG

Table 1

Floating Feather Hills, Inc.
Pumping Test Observation Wells

Well No.	Diam.	Depth	Owner/Occupant	How WL's Measured
1	16	415	Floating Feather	Well sounder
2	4	75	Harley Carson	Well sounder
3	6	~300	Hormachea	Stevens recorder
4	8	~200	Eagle Hills Golf Course	Stevens recorder
5	4	~90	Carl Raasch	Not Used
6	10	~270	Floating Feather Irr. # 1	Air line
7	6	~200	Robert Day	Stevens recorder
8	8	~240	Steve Caron	Not used
9	?	250	USGS/IDWR	Recorder
E-1	4	~75	Eichhorn	Well sounder
E-2	6?	UK	Prohaska/Chase	Not used
E-3	6?	~300	Prohaska	Not used
E-4	6	~170	Marlynn Holgate	Well sounder

OCT

DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705 (208) 334-2190

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

March 8, 1991

Distribution: See List Below

RE: Floating Feather Hills, Inc. Pump Test

Dear Interested Party:

This afternoon this office received a report entitled "Floating Feather Hills, Inc. Preliminary Pumping Test Design." Enclosed for your review is a copy of the report.

Your input regarding the proposed pumping test is solicited. As described in the report, the production/test well has been drilled in the southwest corner of Section 3, T4N, R1E. We will have a meeting to discuss the provisions of the test at the site of this well on Friday, March 15, at 10:00 am. Any interested party who desires to provide input regarding the test but who is unable to attend the meeting is invited to call or write to this office prior to that date. We anticipate making final determinations at the meeting as to how the pump test will be conducted.

Thank you for your continuing interest and participation in this matter.

Sincerely,

David R. Tuthill, Jr.

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office

Interested Parties

Floating Feather Hills, Inc. Well Test

Floating Feather Hills, Inc.
David Roylance, Engineer for Floating Feather Hills, Inc.
Sherl Chapman, Geologist for Floating Feather Hills, Inc.
Chuck Feast, Geologist for Floating Feather Hills, Inc.
Bill Pardew, Local Wateruser - 939-0536
Ted Persons, Local Wateruser 939-6241
Will Burnham, Boise Basin Geologist 362-5214
Alan Robertson, IDWR Section Supervisor 7989
Steve Baker, IDWR Geologist 7893
Spencer Wood, BSU Professor and Geologist) 385-1631 (BSU geol. dept)
Ed Squires, BSU Geologist
Jack Kelly, Montgomery Engineers
Harley Carson, Local Wateruser 939-8909

OCT 01 1991

Aquifer Test Review Meeting
3/15/91 10:00 am on site

Name	Representing
Dave Roylance	FF Hills
Dave Stueckle	FF Hills
Dennis Whitmore	FF Hills
Chuck Feast	CH2M Hill for FF Hills
Bill Pardew	Water User
Dennis Sutherland	Self
Bryce Peterson	FFH Inc
Steve Chapman	FFH Inc
Walt Burnham	Private
Sondra Strain	Private (Sage Acres)
Dave Jensen	Water User
Ted Person	Water User
Lorge Jensen	Water User
Steve Baker	IDWR

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FLOATING FEATHER HILLS, INC.
2417 Bank Dr. Suite 101
Boise, ID 83705

Mike & Sylvia Boyle
9845 Lariat
Boise, ID 83703

Evelyn M. Creelman
9897 Lariat St.
Boise, ID 83703

PROTESTANTS

Richard & Diane Anderson
835 Los Luceros
Eagle, ID 83616

Larry & Virginia Brunette
624 Los Luceros
Eagle, ID 83616

Curt Crosby
9902 Prairie
Boise, ID 83703

Marcia Beckwith
2260 Dicky
Eagle, ID 83616

Neal Bryson
399 Rene
Eagle, ID 83616

Merville Cushing
398 Rene
Eagle, ID 83616

Robert E. Beckwith
2260 Dicky
Eagle, ID 83616

Steve & Anne Caron
11026 Culdesac Way
Boise, ID 83703

Roger & Elaine Darnell
464 Rene
Eagle, ID 83616

John Beggrow
315 Rene
Eagle, Id 83616

C.A. & Roberta Carpenter
453 Rene
Eagle, ID 83616

Robert C. Day
11034 Culdesac
Boise, ID 83703

Nina L. Blan
385 Dicky
Eagle, ID 83616

Clifford D. Chambers
10237 Prairie Rd.
Boise, ID 83703

Robert DeShazo, Jr.
Eagle Water Corp.
P.O. Box 455
Eagle, ID 83616

Leann M. Boyce
2263 Sadie
Eagle, ID 83616

Shirley Chambers
2324 Sadie
Eagle, ID 83616

John F. & Kathy Dutcher
602 Los Luceros
Eagle, ID 83616

William L. Blan
385 Dicky
Eagle, ID 83616

Eleanor I. Chase
70 W. Floating Feather Rd
Eagle, ID 83616

Rod W. Eisele
654 Edgewood
Eagle, ID 83616

✓Dec 6/12/91

[redacted]
P.O. Box 1146

Jan & Walt Costello
300 Dicky
Eagle, ID 83616

Frank & Janet Elliot
329 Dicky
Eagle, ID 83616

OCT 01 1991

E.E.

Robert Parsons
4501 E. Singer Creek
Meridian, Id Dairie

Eagle County Commissioner

Cheryl Chapman

Chuck Feast
CH 2MHill

Dave Roylance

Keith Lowder
~~Keith Lowder~~
picked up

Evans Water Association
c/o Terry Loftus
216 Rene Place
Eagle, ID 83616

William M. Gornik
10943 Hwy 55
Boise, ID 83703

Carrie E. Jackson
914 Los Luceros Dr.
Eagle, ID 83616

Tommy L. Eyton
11011 Runway Drive
Boise, ID 83703

Blair & Carolyn Hagerman
10236 Prairie Rd.
Boise, ID 83703

6/12/91
George & Carol Jensen
3065 E. Floating Feather Rd.
Eagle, ID 83616

Farrell F. Ferguison
10753 Horseshoe Bend Rd.
Boise, ID 83703

Steve & Carolyn Haughton
2218 Dicky
Eagle, ID 83616

Jack R. Jensen
10101 Cayuse Ln.
Boise, ID 83703

Debbie Fielding
2221 Dicky
Eagle, ID 83616

Mike Hawkins
9975 Prairie Rd.
Boise, ID 83703

Otto L. & Beryl A. Johnson
10030 Prairie Rd.
Boise, ID 83703

Carole Fivecoat
10981 Hwy 55
Boise, ID 83703

David Haworth
325 Dicky
Eagle, ID 83616

Alice & Wendell Jones
11154 Culdesac
Boise, ID 83703

Cliff Fivecoat
10981 Hwy 55
Boise, ID 83703

Gary M. Hazen
3577 W. Floating Feather Rd.
Eagle, ID 83616

6/12/91
Larry Koomler
2301 Sadie
Eagle, ID 83616

Cindy & Jose Franca
9837 Prairie Rd.
Boise, ID 83703

Merle Hazen
2044 N. Meridian Rd.
Eagle, ID 83616

Ray Kreps
2171 E. Dicky
Eagle, ID 83616

A. Daniel Freiberg
441 Rene
Eagle, ID 83616

Dana Hofstetter
1098 Los Luceros
Eagle, ID 83616

Ed Lambert
10294 Prairie Rd.
Boise, ID 83703

Dewain Glubay
500 Rene
Eagle, ID 83616

Barton L. Jackson
914 Los Luceros Dr.
Eagle, ID 83616

Steve & Jeannie Lenon
371 Rene
Eagle, ID 83616

George Loucks
2310 Madision Ave
Boise, ID 83702

Beth Olson
2252 E. Dicky
Eagle, ID 83616

Don & Janet Rydman
8999 Prairie Rd.
Boise, ID 83703

Gary S. Lyons
2985 Holl Dr.
Eagle, ID 83616

✓ 6/12/91
William & Helen Pardew
P.O. Box 699
Eagle, ID 83616

Dan Schill
9950 Prairie
Boise, ID 83703

✓ 6/12/91
Hugh & Suzanne Massie
10,000 Prairie Rd.
Boise, ID 83703

F.L. Persons
11133 Horseshoe Bend Rd.
Boise, ID 83703

Louis C. Siron, III
10374 Prairie Rd.
Boise, ID 83703

Jeff Mattoon
2266 Sadie
Eagle, ID 83616

Alice Plecker
2248 Sadie
Eagle, ID 83616

Steve & Ruby Smith
10029 Prairie Rd.
Boise, ID 83703

✓ 6/12/91 Barb Newell
Karl & Kay Mauritz
3471 E. Floating Feather
Eagle, ID 83616

Gerald & Catherine Renfro
10735 Horseshoe Bend Rd.
Boise, ID 83703

Beverly Snediker
9780 Prairie Rd.
Boise, ID 83703

Howard Maxwell
10895 Hwy 55
Boise, ID 83703

Monte & Suzanne Riley
10357 Prarie Rd.
Boise, ID 83703

Knight & Rhonda Stanley
11067 Culdesac Way
Boise, ID 83703

Richard E. Meiers
8220 Northview
Boise, ID 83704

Rhonda Roberts
279 Rene
Eagle, ID 83616

E.F. Stark
133 Rooster Dr.
Eagle, ID 83616

Richard L. Mincer
10955 Runway Drive
Boise, ID 83705

Donald & Priscilla Rogers
425 Rene
Eagle, ID 83616

Robert & Sondra Strain
11029 Runway Drive
Boise, ID 83703

C.K. Moore
10455 Prairie Rd.
Boise, ID 83703

Robert A. Rowen
222 Rooster Dr.
Eagle, ID 83616

Dennis Sutherland
11036 Runway Dr.
Boise, ID 83703

6/12/91

H. Sutherland
2433 [illegible] Feather Rd.
Eagle, ID 83616
[illegible] 1146

HOMCO
2417 Bank Drive
Suite 101
Boise, ID 83705

Sharyn K. Sutherland
11036 Runway Dr.
Boise, ID 83703

Donald R. Thomas
10230 Caruse Ln.
Boise, ID 83703

Harry & Leona Vogt
3734 W. Beacon Lt. Rd.
Eagle, ID 83616

Thurman & Annemarie Wardlow
489 Rene
Eagle, ID 83616

Mrs. C.B. Weber
11053 Horseshoe Bend Rd.
Boise, ID 83703

Philip D. Whitener
198 Rooster Dr.
Eagle, ID 83616

6/12/91
Neil D. Wilton
632 N. Edgewood Lane
Eagle, ID 83616

Jene & Steve Yundt
477 Rene
Eagle, ID 83616

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Engineers
Planners
Economists
Scientists

June 5, 1991

BOI31684.A1

Mr. Bryce Peterson, President
Floating Feather Hills, Inc.
2417 Bank Drive, Suite 101
Boise, Idaho 83705

Dear Bryce:

Subject: Draft Report on Aquifer Test and Analysis

Enclosed are three copies of the Draft report on the long-term aquifer test and subsequent analysis of aquifer response to the proposed groundwater diversions for your development projects northeast of Eagle. I have simultaneously distributed one copy to Mr. Sherl Chapman, one copy to Mr. Dave Tuthill at IDWR, and one copy to Mr. Steve Baker.

The data reduction, analysis, and preparation of the report took longer than I anticipated. I hope the delay in issuing this report did not cause you any inconvenience.

If I can receive all comments on the report by Friday, June 10, 1991, the final report will be available for distribution on Tuesday, June 11, 1991. Please call me if you have any questions about the report. Thank you for the opportunity to help you on this aspect of your project.

Sincerely,

CH2M HILL

Charles Feast

Charles Feast, P.G.
Project Manager

OCT 01 1991

edb/ffhltr
Enclosures (3)
cc: Mr. Sherl Chapman
✓Mr. Dave Tuthill
Mr. Steve Baker

BEFORE THE DEPARTMENT OF WATER RESOURCES

OF THE

STATE OF IDAHO

IN THE MATTER OF APPLICATION FOR PERMIT NO. 63-11413 IN THE NAME OF FLOATING FEATHER HILLS, INC., AND TREASURE VALLEY VILLAGE	NOTICE OF HEARING

On October 23, 1990, Floating Feather Hills, Inc., filed with the Department of Water Resources an application for permit to appropriate the public waters of the State of Idaho. The application was protested by the parties on the attached list, and a meeting was held by the Department on January 24, 1991.

On March 13, 1991, Treasure Valley Village was assigned to be an additional applicant, and the proposed use was expanded.

A test well was drilled by the applicants, the well was pumped for 30 days during a supervised aquifer test, and the test pumping was concluded on April 25, 1991. The recovery of associated wells has been monitored, and the consultants for the applicants are preparing a report regarding the results of the test. In addition, the Department is preparing a report regarding ground water in the vicinity of the proposed diversions. Both reports are anticipated to be made available in late May or early June. Any party interested in receiving copies of these reports is invited to contact this office.

OCT 01 1991

The Department has set the matter of protest for a hearing to be held on Wednesday, June 12, 1991, at 10:00 a.m. at the J.R. Williams Building conference room (Hall of Mirrors), 700 W. State, Boise, Idaho 83702. The hearing will consist of two parts. In Part I, the applicant will provide information concerning the proposal. Also in Part I, the Department and protestants will present information by testimony and/or exhibits. Part II will be an evening hearing which will consist of testimony primarily by protestants unable to attend the Part I session. Part II will begin at 7:00 p.m. on the same date in the same location as Part I.

The hearing will be held in accordance with provisions of Chapters 2 and 17, Title 42, and Chapter 52, Title 67, of the Idaho Code, the adopted Rules of Practice and Procedure of the Department of Water Resources, and Rules 4 and 5 of the adopted Rules and Regulations of Water Appropriation of the Department of Water Resources. Opportunity shall be afforded all parties to respond and present information and argument on all issues involved.

Dated this 3rd day of May, 1991.

David R. Tuthill Jr.
DAVID R. TUTHILL, JR., P. E.
Manager, Western Regional Office

I hereby certify that on the 3rd day of May, 1991, I mailed a true and correct copy, postage prepaid, of this document to the applicant(s) and protestant(s) on the attached list.

Sue Taylor
Sue Taylor
Secretary

OCT 01 1991

FLOATING FEATHER HILLS, INC.
2417 Banks Dr.
Suite 101
Boise, ID 83705

TREASURE VALLEY VILLAGE
4720 Emerald
Boise, ID 83706

PROTESTANTS

Richard & Diane Anderson
Marcia Beckwith
Robert E. Beckwith
John Beggrow
Nina L. Blan
Leann M. Boyce
William L. Blan
D.C. Boyer
Mike & Sylvia Boyle
Larry & Virginia Brunette
Neal Bryson
Steve & Anne Caron
C.A. & Roberta Carpenter
Clifford D. Chambers
Shirley Chambers
Eleanor I. Chase
Jan & Walt Costello
Evelyn M. Creelman
Curt Crosby
Merville Cushing
Roger & Elaine Darnell
Robert C. Day
Robert DeShazo, Jr.
Eagle Water Corp.
John F. & Kathy Dutcher
Rod W. Eisele
Frank & Janet Elliot
Evans Water Association
Tommy L. Eyton
Farrell F. Ferguison
Debbie Fielding
Carole Fivecoat
Cliff Fivecoat
Cindy & Jose Franca
A. Daniel Freiberg
Dewain Glubay
William M. Gornik
Blair & Carolyn Hagerman
Steve & Carolyn Haughton
Mike Hawkins
David Haworth
Gary M. Hazen
Merle Hazen
Dana Hofstetter
Barton L. Jackson
Carrie E. Jackson
George & Carol Jensen
Jack R. Jensen
Otto L. & Beryl A. Johnson
Alice & Wendell Jones
Larry Koomler
Ray Kreps
Ed Lambert
Steve & Jeannie Lenon
George Loucks
Gary S. Lyons
Hugh & Suzanne Massie
Jeff Mattoon
Karl & Kay Mauritz
Howard Maxwell
Richard E. Meiers
Richard L. Mincer
C.K. Moore
Beth Olson
William & Helen Pardew
F.L. Persons
Alice Plecker
Gerald & Catherine Renfro
Monte & Suzanne Riley
Rhonda Roberts
Donald & Priscilla Rogers
Robert A. Rowen
Don & Janet Rydman
Dan Schill
Louis C. Siron, III
Steve & Ruby Smith
Beverly Snediker
Knight & Rhonda Stanley
E.F. Stark
Robert & Sondra Strain
Dennis Sutherland
S.H. Sutherland
Sharyn K. Sutherland
Donald R. Thomas
Harry & Leona Vogt
Thurman & Annemarie Wardlow
Mrs. C.B. Weber
Philip P. Whitener
Neil D. Wilton
Jene & Steve Yundt

HEARING INFORMATION
IN THE MATTER OF APPROVAL OF AN APPLICATION FOR PERMIT

In accordance with Idaho Code, Section 42-203, the following issues are involved in the consideration of the application and protest(s):

1. Will the proposed use reduce the quantity of water under existing water rights?
2. Is the proposed water supply insufficient for the purposes intended?
3. Is the application made in good faith or for delay or speculative purposes?
4. Has the applicant sufficient financial resources with which to complete the project?
5. Will the proposed use conflict with the local public interest?
6. Will the proposed use be contrary to conservation of water resources within the State of Idaho?

Any party may request in writing five (5) days before any hearing that the oral proceedings thereof be taken in the form of stenographic notes at the expense of the requesting party. Any party may have such stenographic notes of the oral proceedings, or part thereof, transcribed at his own expense. A tape record of the proceedings will be maintained for the appeal period.

If the hearing is conducted by a hearing officer appointed by the Director, rather than the Director himself, a proposed decision will be submitted to the parties and the parties may be afforded an opportunity to file exceptions to the proposed decision and present briefs and oral arguments to the Director prior to the issuance of a final decision by the Director. This procedure is required by Idaho Code, Section 42-1701A.

The parties by written stipulation may waive their right to a proposed decision, however, the failure of either party to waive a proposed decision will not prejudice the Director's review of a party's evidence and arguments. However, such a waiver will shorten the decision-making process and may expedite substantially the issuance of a final decision. Whether compliance with Section 42-1701A is waived will not affect a party's right to petitition for a rehearing of the final decision pursuant to Rule 11 of the Department's Rules of Practice and Procedure or affect a party's right to appeal the final decision to the district court.

Under the provisions of the Idaho Code, Sections 42-1701A and 67-5215, any court review of the Department's decision on appeal shall be confined to the record created before the Department.

Failure to appear at the time and place set for hearing by the applicant or protestant(s) may allow the Department to dismiss without prejudice the protest(s) or the application. Any and all cost incurred by reason of such non-appearance may be assessed against such non-appearing parties.

OCT 0

SCHEDULE
FLOATING FEATHER HILLS PUMPING TEST

START: MARCH 26, 1991; ~10:00 AM
SCHEDULED DURATION: 30 DAYS
PUMPING RATE: 750 GALLONS PER MINUTE
OBSERVATION WELLS: SEE TABLE 1
DISCHARGE MEASUREMENT: TOTALIZING FLOW METER
DISCHARGE POINT: FARMERS UNION CANAL, APPROXIMATELY 400 FEET WEST

DESIRED FREQUENCY OF WATER LEVEL MEASUREMENTS:

PUMPED WELL	0 - 10 min.	.5 - 1 min.
	10 - 15 min.	1 min.
	15 - 60 min.	5 min.
	60 - 300 min.	30 min.
	300 - 1440 min.	60 min.
	1440 - EOT	480 min. (8 hr.)
OBS. WELLS	0 - 60 min.	2 min.
	60 - 120 min.	5 min.
	120 - 240 min.	10 min.
	240 - 360 min.	30 min.
	360 - 1440 min.	60 min.
	1440 - EOT	480 min. (8 hr.)

RECORDERS 2 day charts, check daily, change every 40 hours

STAFF NEEDS:

Pumped well	continuous 1st 300 min.
Holgate	continuous 1st 60 min.
Holgate/Carson	continuous 60 - 120 min.
Eichhorn	continuous 1st 60 min.

120 to 360 minutes one person can do all obs. wells including Floating Feather Irr. #1.

360 to 1440 minutes one person can do all wells

1440 to EOT one person can do all wells each 8 hrs.

PERSONEL SCHEDULE:

FEAST	PUMPED WELL	0 - 120 mins.
	PW/EICHHORN	120 - 360 mins.
	ALL WELLS	360 - 1440 mins.
PARDEW	HOLGATE	0 - 60 mins.

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	HOLGATE/CARSON	60 - 240 mins.
	HOLGATE/CARSON FFH #1	240 - 360 mins.
FEAST/PARDEW	ALL WELLS	1440 mins. - EOT
OTHER	EICHHORN	0 - 120 mins.

CFFTOWN/DESIGN.WP/HG

Table 1

Floating Feather Hills, Inc.
Pumping Test Observation Wells

Well No.	Diam.	Depth	Owner/Occupant	How WL's Measured
1	16	415	Floating Feather	Well sounder
2	4	75	Harley Carson	Well sounder
3	6	~300	Hormachea	Stevens recorder
4	8	~200	Eagle Hills Golf Course	Stevens recorder
5	4	~90	Carl Raasch	Not Used
6	10	~270	Floating Feather Irr. # 1	Air line
7	6	~200	Robert Day	Stevens recorder
8	8	~240	Steve Caron	Not used
9	?	250	USGS/IDWR	Recorder
E-1	4	~75	Eichhorn	Well sounder
E-2	6?	UK	Prohaska/Chase	Not used
E-3	6?	~300	Prohaska	Not used
E-4	6	~170	Marlynn Holgate	Well sounder

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JUN 17 1991
Department of Water Resources
Western Regional Office

MEMO

TO: **GLEN SAXTON**
FROM: **RICK STERLING** RS
DATE: **6/13/91**

SUBJECT:PUMP TEST REPORT FOR THE EAGLE WATER CO.

Attached is a copy of a pump efficiency test report which was sent to the Eagle Water Company a few days ago.

Robert Deshazo of Eagle Water Co. requested that I send you a copy of the report since it had apparently come up in a recent public hearing concerning a water appropriation permit application for a subdivision proposed near Eagle. The report may be slightly revised later, since Mr. Deshazo insists the report contains some errors. Hovever, I would not expect the changes to be significant. Most of the report is standard boilerplate that goes into each report prepared for municipal pump tests. Since the Eagle Water Co. is not a city-owned system, there are references to the "city" in the report. I think this will account for most of the errors Mr. Deshazo thinks exist.

I might also mention that these tests were somewhat unusual. We do not normally perform tests for non-municipal water systems. However, we did in this case because we received a special request from Western Region. After conducting some type of study in the area, they thought pump efficiency tests might benefit the water company since they knew the company was having some pump problems.

The report discusses the results of efficiency tests on three well pumps and two booster pumps. The efficiencies of the pumps are neither exceptionally good nor exceptionally poor. However, we did identify a serious problem with Well Pump # 2. It seems apparent from the behavior of the pump and from the data we collected that the pump is cavitating. I believe the problem is the result of the pump bowls not being set deep enough in the well. Pumping water levels in the well may have declined a few feet from previous years, but I think the pump may have been set too high from the very beginning. Eagle Water reports the pump worked fine for many years and cannot understand why they have a problem now. We have some evidence that the pump may have been set barely deep enough when it was installed. If this is indeed true, then a small drop in pumping water level could cause a problem like the one they now have.

When we agreed to perform these tests, we had no intention of gathering information for the purpose of it being used in a water rights hearing. Rather, we were only trying to help them identify

and correct pump problems. I had no prior knowledge that Eagle Water Co. or its employees had planned to testify at any hearings. Nevertheless, I do not think the information we gathered could do anything but help people better understand the problems. I hope you will not look upon the work we did as interfering with the regulatory functions of the Department.

OCT 0 1 1991

State of Id ho
DEPARTMENT OF WATER RESOURCES
1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000
Phone: (208) 327-7900 FAX: (208) 327-7866

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

September 12, 1991

FLOATING FEATHER HILLS INC. &
TREASURE VALLEY VILLAGE
2417 BANK DRIVE, SUITE 101
BOISE ID 83705

Dear Permit Holders:

Re: In the Matter of Application for Permit No. 63-11413

Enclosed is a copy of the approved Application Permit No. 63-11413 along with a copy of the Final Order Adopting Proposed Memorandum Decision and Order.

Any person who does not agree with the decision of the department may request a rehearing before the Director within 20 days, or may appeal directly to the district court within 30 days of the date the decision is mailed.

If you have any questions concerning this matter, please feel free to contact this office.

Sincerely,

L. Glen Saxton

L. GLEN SAXTON, Chief
Water Allocation Bureau

Enclosures

c w/enc, final order &
cert. of mailing:
See cert. of mailing

OCT 01 1991

Aug 19 - 91

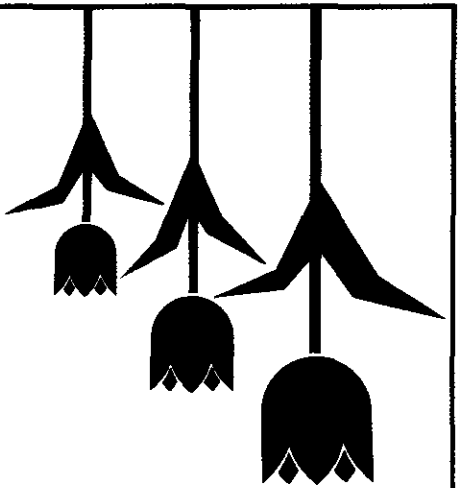
Ken Dapton P.E. Hearing Officer.
Dave Tuthill Jr. Western Region Mgr.
Boise Idaho - 83705.

Dear Sirs:

After reading the proposed decission for Floating Feather Wells that we received from the water resource Board. I have some real problems with the report application of Legal principals #4 - page Nine orders # 6 page 12. A definite distinction has been made between irrigation and domestic. If these Wells were drilled prior to March 1978.

OCT 01 1991

We bought our property because these was already available & good water to our acreages for irragation. The cost of irrigation wells is substanchally greater in cost than a domestic one the cost to pump the water is extra feet out of the ground. Could be a prohibitive. The propertys are



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Western Regional Office

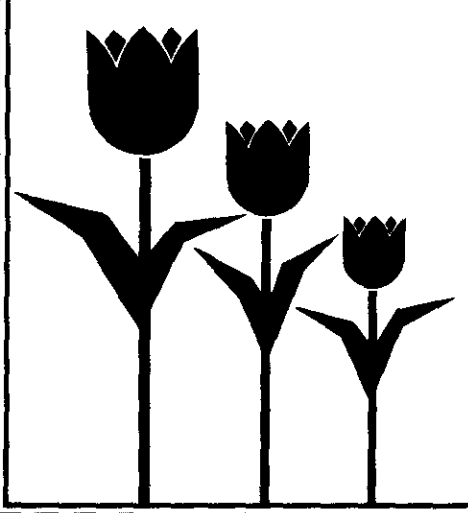
OCT 01 1991

along Floating Feather & Hyway 55 -
to the Floating Feather Trailer Park these
are irrigated by two wells. The first
well is located Floating Feather Rd & 55
Seven tracks of land are irrigated out
of No I Well The second is Located on
55.

There is absolutly no way for these
5 acre lots to get water from the Canal.
We have no access to the property
boading the Canel - & we are not
able to irrigate from these said wells
our quality of life style would be
threatened. We are now between
a rock & a hard spot, because we
can not sell or subdivide, without
an assurance of Well water.
I am sure when we bought our home
out here there was no distinction
between Domestic or irrigation
wells.

OCT 01 1991

OCT 01 1991



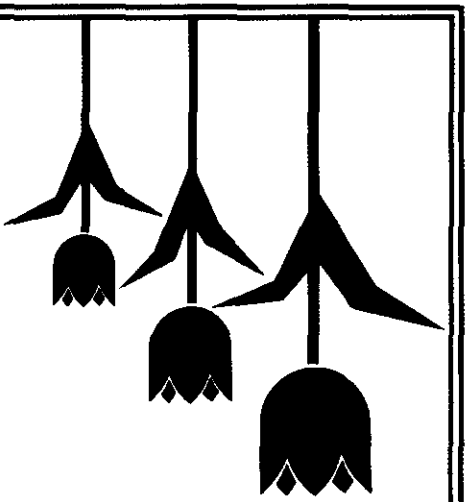
I feel that there should be a decision entered in the proposed Memorandum decision, that the irrigation wells receive the same consideration as Domestic. so as we will be protected - otherwise I still protest Permit # 63-11413. in Name of Floating Feather Village.

I would appreciate some action for Our protection

Sincerly Mrs C.B. Welton

11053 Horse Shoe Bd Rd.
Boise Idaho 83703

OCT 01 1991



AUG 28 1991
Department of Water Resources
Western Regional Office

OCT 0 1 1991

C. B. Welker
11053 Horse Shoe Rd Rd
Boise Idaho 83703

BOISE, ID 837
PM
26 AUG
1991

29 USA

Dave Tuthill Water Resources
Jr. Western Water Region Mgr.
1201 N. Orchard Boise Idaho.

Attn Dave.

83704

C. B Weber
11053 Horse Shoe Bd
Boise Idaho 83703

BOISE, ID 837
PM
21 AUG
1991

29 USA
ALWAYS
USE ZIP CODE

Dave Tathhill Water Resources
Jr. Western Region Mgr.
Boise Idaho. 83706. att Dave

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AUG 20 1991
Department of Water Resources
Western Regional Office

Row
Olm 1191

August 19, 1991

Glenn Saxton, P.E., Hearing Officer
David Tuthill Jr., P.E., Western Region Mgr.
2135 Airport Way
Boise Idaho 83705

Dear Sirs,

After reading the proposed decision for Floating Feather Hills Inc. that we received from the Water Resource Board, I have some problems. Throughout the report, Application of Legal Principles #6 - page nine; Orders #6 - page twelve; a definite distinction has been made between the domestic wells and "any other wells." There should be no such distinction made between irrigation and domestic if these wells were drilled prior to March of 1978.

Let me explain something — Most of us bought our property because there was good water already available to our acreages for irrigation. We did not have to drill wells to irrigate our land with. The cost of irrigation wells is substantially greater than a domestic well, and the cost to pump the water extra feet out of the ground could be prohibitive. The properties along Floating Feather and Highway 55 to the Floating Feather Trailer Park are irrigated by two wells. The first well located on the corner of Floating Feather Road and

OCT 1 1991

Highway 55 irrigates seven — five acre parcels. There is absolutely no way for this land to get water from the canal. We have no access to property bordering the canal. If we are not able to irrigate from our well — we cannot raise our cattle or the produce that we raise now. Considering that a major portion of this familys' food consumption comes from this land, our quality of life will be threatened and there will need to be a drastic change in our lifestyle if a water problem does occur. When the water is gone, I do not think that Mother Nature will have made the distinction on whether the wells affected are for domestic use or for irrigation, so I hope that the Resource Board will not make that distinction either.

Very Truly Yours,

Carol Jensen
3065 Floating Feather Rd
Eagle, Idaho 83616

cc Philip Barber
cc Bill Pardew
cc Neil Wilton

1 1991

Jensen
3065 Floating Feather Rd
Eagle, Idaho
83616

BOISE, ID 837
PM
19 AUG
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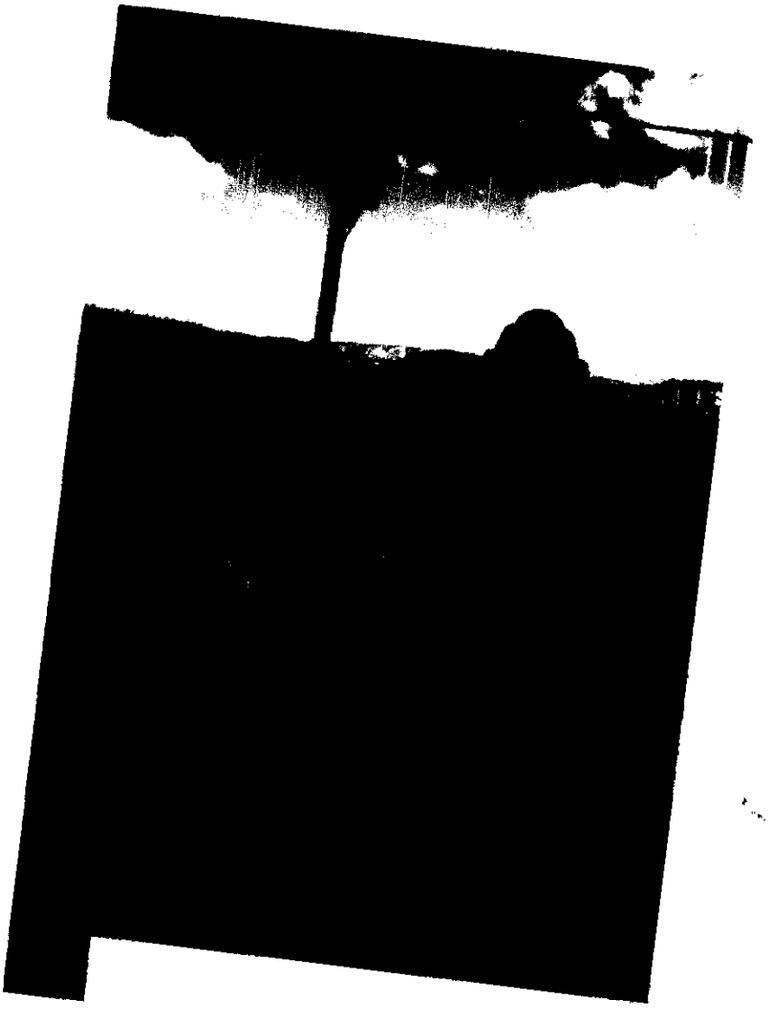
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USE ZIP CODE
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David Tuthill Jr. P.E.
Western Region Mgr.
2735 Airport Way
Boise, Idaho
83705

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63-1148

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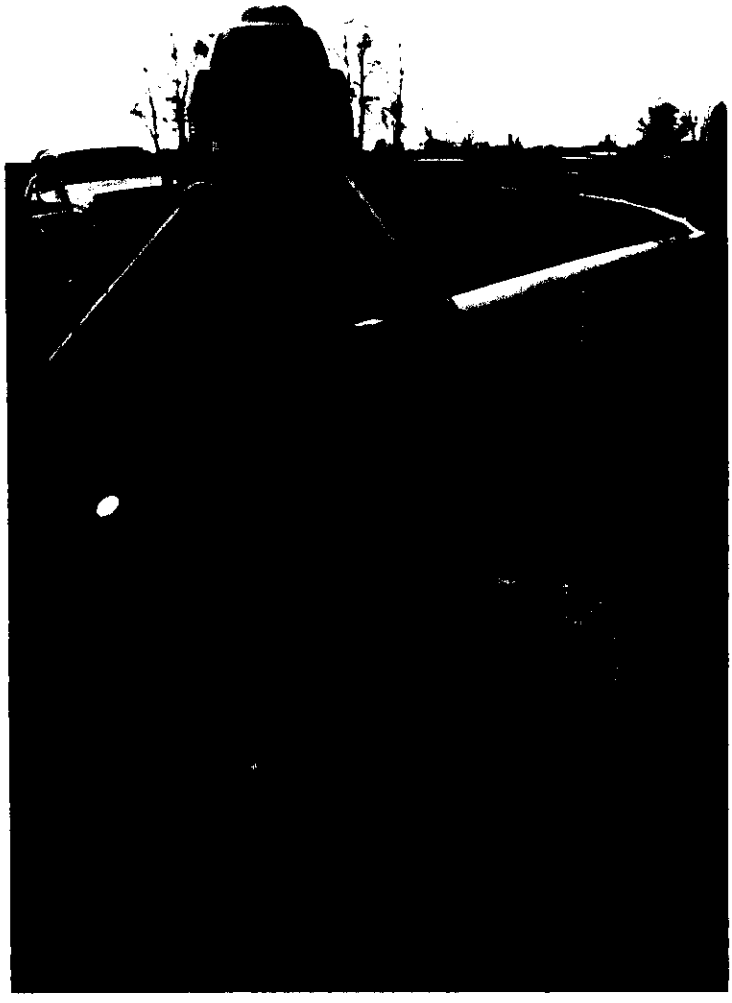


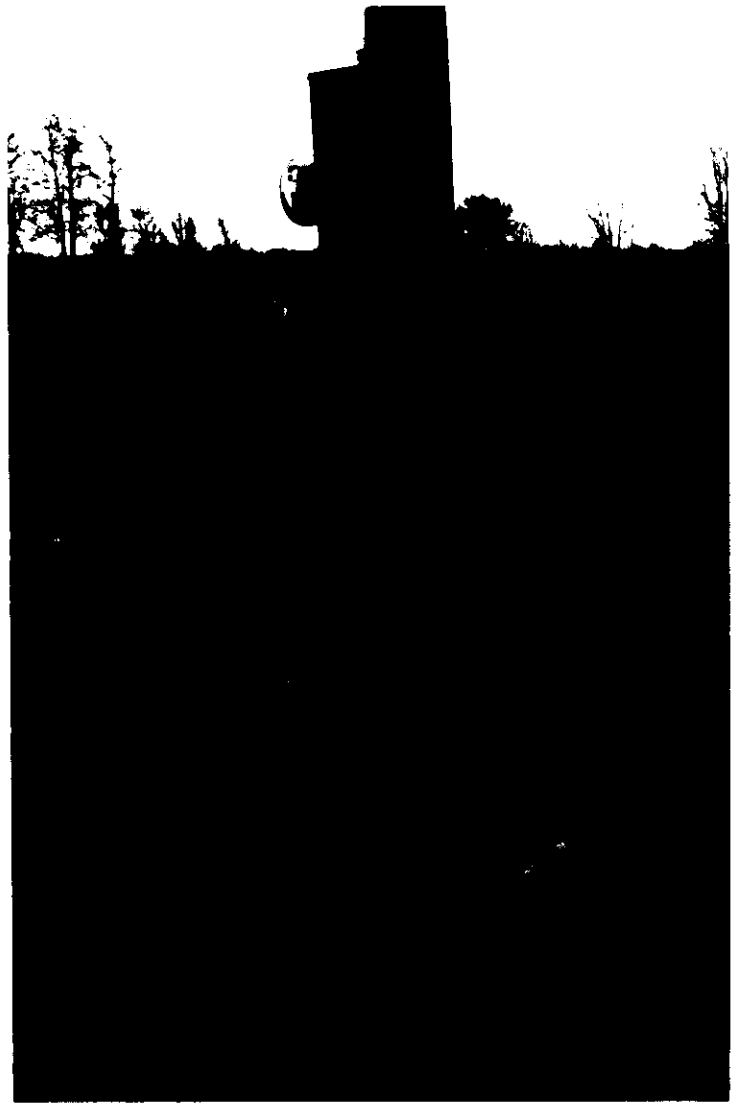
Photos taken by D. Tuthill during test.
Floating Feather Hills, Inc.

1. Test pump, flow meas. device.
2. Same site, looking south.

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3. Close up showing pressure gauge with depth to water readout.

4. Air tank for pressure gauge.

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JAN 10 1991
Department of Water Resources
Western Regional Office

CITY OF BOISE

INTER-DEPARTMENT CORRESPONDENCE

Date: 1/3/91

To: Irrigation Task Force Members

From: Ron Redmond RWR 384-4292
Assistant City Engineer

Subject: Interim Report

Attached is a draft report on the status of our irrigation task force meetings of last year. Please review the draft and make comments as you deem appropriate.

Of specific concern is the recommended procedure for handling irrigation system installations within new developments. This procedure would allow developers three options to choose from depending upon their situation and proximity to irrigation service.

It is intended after comments are received, to forward this interim report onto the Public Works Commission and then to the City Council. It is also felt that there is merit in having the task force again get together to attempt to conclude the issues that were outlined at the outset of our meetings.

Please respond with your comments by January 18, 1991. We will notify you of our next task force meeting following receipt and collation of your comments. Minutes of our last meeting are also included.

RWR/mm

CF/SF - PWE 097

5WP/INTERIM.RWR

Per telecon w/ Ron Redmond on 7/16/91, the final report has not yet been prepared

D. Tuthill

OCT 01 1991

IRRIGATION TASK FORCE

April 19, 1990
Minutes

ATTENDEES:

Developers

Bryce Peterson
Homco

Ted Johnson
Skyline Development

Dennis Baker
Dennis M. Baker & Assoc.

Steve Sweet
River Run Development

Irrigation Water Delivery

John Gannon
New York Irrigation Dist.

Don Smitchger
Settler's Irrigation Dist.

John Anderson
Nampa-Meridian Irrigation

Paul Devoe
Boise Project
Board of Control

Carl German
Boise-Kuna Irrigation Dist.

Engineers

Irrigation Users

Bill White
Centennial Water Users Assoc.

Dennis Whitehead
Ross #6 Lateral Water Users

Other Interested Parties

Ben Hepler
Boise Water Corp.

Gary Smith
City of Meridian

Jeff Fereday
Givens, Pursley, Webb, & Huntley

Keith Stokes
South County Water

Boise City Public Works Department

Chuck Mickelson
City Engineer

Ron Redmond
Assistant City Engineer

Beth Wendler
Secretary

Boise City Council

Mike Wetherell
Council President

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MODE SELECT
        INPUT

OUTER DIAMETER
7.9972   IN

PIPE MATERIAL
?       AL,DI

WALL THICKNESS
.05600   IN

INNER LINING
?       NO LING.

KIND OF FLUID
?       WATER

SENSOR MOUNTING
?       V

TYPE OF SENSOR
?       SMALL

DATA CHANGE
?       NO

SPACING
5.677    IN V

ZERO MODE
        CLEAR

ZERO MODE
        AUT ZERO

ZERO MODE
        ZERO OPR

04-12 14:1600 *R
+709.037E 0GPM
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AGENDA

A. Review Minutes of Last Meeting

B. Presentation by Developers
1. Bryce Peterson
2. Dennis Baker
3. Ted Johnson

C. Question And Discussion Period

D. Topics For Next Meeting (Subcommittees?)

A. Review Minutes of Last Meeting

The meeting was called to order at 7:05 p.m. Opening comments were made by Mike Wetherell. The Minutes of February 22, 1990 were approved.

B. Presentation by Developers

1. Bryce Peterson

Bryce Peterson, Homco, Inc., stated that his main goal is to save the water and develop a plan to irrigate for less money. He praised Bill White, Centennial Water Users Association, for his efforts with the Centennial Subdivision by delivering water to the people economically and with low wages for himself. A solution to the overall irrigation issue might be to have a municipal company manage and maintain it. He suggested that if the City were to adopt an ordinance requiring developers to install irrigation systems, then every subdivider would be required to install a system in order to maintain competitive balance. If systems are not installed, an important thing to keep in mind would be to get the water to Boise Water Corporation so the water rights wouldn't be lost. To have the surface irrigation water filtered, treated and used in a domestic system may be one of the best options. However, Mr. Peterson expressed concern that the property owner will end up paying 25% over and above their normal water fees which, in turn, might prompt the homeowner to give up their water rights. When the water rights are transferred back to the districts, the homeowner will lose all rights forever.

Irrigation districts

2. Dennis Baker

Dennis Baker has developed in southeast Boise for the past several years and has taken advantage of the New York Canal to get irrigation water to the land, believing it was in the best interest of the homeowner and for property sales. Initially, the homeowners were not using the irrigation water. After a few years, the homeowners began using the water. When the property owners from his irrigated developments wanted to move to a larger home or another neighborhood, they wanted the option to use irrigation water. In 1978, Baker &

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Associates installed their last irrigation system in East Meadowpark at an approximate cost of $1,200 per lot. This pipeline has approximately three diversion points off the main supply line with large headgates and valves that service East Meadowpark; a portion of Centennial, and then supplies water across Boise Avenue to the north. Mr. Baker stopped providing irrigation systems for reasons of cost. The City code provides for irrigation water to be transferred from parcel to parcel rather than to the Districts. The State code is not specific in its requirements. It was suggested that the water rights should either be applied or transferred back to the districts. It was also suggested that if the districts would agree to the alternatives, then they could stop billing the property from which the water was transferred. Mr. Baker suggested that if the system were set up to place the water reserve in a Trust, for park purposes, it would be possible to transfer the water back to the property owner in the event that a municipal irrigation system or other irrigation facility was developed at a later date. A system needs to be developed to get the water rights back by way of recorded document.

Jeff Fereday, attorney, said the by-laws and State laws state two different things in that State law says that the Districts own the water rights, not the property owners. The actual ownership of the water right is with the District; therefore, the developer doesn't have water rights or the ability to transfer the water rights or return those to the irrigation district. Mr. Fereday explained the difference between an irrigation district and a canal company as follows:

1) An irrigation district is similar to a city sewer or drainage district and can sell its water rights anywhere. Districts can levy taxes and has backing from the State. An irrigation district has boundaries.

2) A canal company is a non-profit organization. It is controlled by its own bylaws and resolutions passed by the board and shareholders. It is a corporation that does not have the power to tax or levy assessments on property. It has the power to exercise its rights and also holds stock certificates. The canal company is entitled to approve decisions to transfer water rights. It has complete authority to either approve or deny; however, this approval should not be unreasonably denied. When it is physically possible to deliver water transferred from one property to another, that canal company has the obligation to proceed with the transfer. A canal company does not have boundaries.

The preceding discussion doesn't mean that irrigation districts cannot allow some of its water rights to be transferred away. Irrigation districts suffer as a result of unauthorized transfers, even though the laws have been very lenient about irrigation districts transferring their water rights without State approval. The irrigation districts can move the water from places it is not needed to where it is needed and allow higher efficiency sprinkler system expansions for using water over larger areas. However, the question of illegal transfer or forfeiture may arise.

Mr. Baker expressed his concerns about the ability to transfer water rights to lots that can use the water so that it is not wasted. He felt water rights should remain in each district. The districts can be dissolved by lot owners. The lot owners who are "fed up" with the hassles of the water rights can ban together and elect a Board to work with water rights attorneys to help resolve the confusion. Citizens are upset because they are being assessed for water and

they do not have access to this water.

Don Smitchger suggested the storm drains be used to catch the runoff so that the water can be circulated back into the system instead of lost.

3. Ted Johnson

Ted Johnson, Skyline Development, raised the question of economics because a lot of people complain about having to pay for irrigation and cannot get the water. An example would be a parcel of land approximately 7,500 sq. ft. with a capital cost for an irrigation system at $1,000 to $1,200. This is added onto the mortgage $12 per month interest as opposed to $15 per year to pay the cost of having a system and not being able to receive water. In addition to the $12 per month, there are maintenance costs. After totalling all costs, it is less expensive to buy water from Boise Water Corporation for the smaller lots. Mike Wetherell suggested solving the problem at the point of origin by changing the State law to allow the transfer of water rights by the developer back to the district or company. Don Smitchger stated that in his district every bit of the water is delivered whether the property owner uses it or not. John Gannon said that the problem is water users who pay for water are not using the water, and there are other users in the district who use the water, but who do not pay.

John Gannon then suggested that since Jack Cooper of the Parks Department stated that there isn't adequate water in Ann Morrison Park, that one of Ted Johnson's subdivisions could give up their water to be delivered to the park. This suggestion was agreed upon.

Mr. Johnson clarified when he felt pressurized irrigation systems should be used. If the lots are too small, irrigation systems should not be installed. Lots with 10,000 to 18,000 square feet have enough room to make an irrigation system cost effective.

A system that he has installed in developments include a pressurized irrigation system that is equipped with a pump that runs continually. This system has been installed in subdivisions with 15 to 30 houses. Problems with the system include: keeping it clean, people downstream shutting off gates to the ones upstream, and people putting grass clippings in the ditches which plug the valves. There are still those people who only want the convenience of turning on their tap water and not having to worry about water supply.

C. Questions and Discussion Period

John Gannon discussed legislation which is effective July 1, 1990, and said that it allowed purchasers to bring suit if the law is not complied with and it specifically states that the assessment obligations be removed prior to the subdivision plats being approved. It requires that the land be excluded from assessment or have a water delivery system installed. It is up to the City whether it wants to require a water delivery system. Mr. Gannon added that a Developer has the option to install a system or transfer the water right from the property (exclude the assessment); but a purchaser can only enforce the new law to the extent of the cost of exclusion from the District, or recoup the estimated installation cost of the delivery system with a maximum of $1,500 per lot.

Ted Johnson stated that one solution would be to transfer back water right to the District in a Trust,

with priority for the water rights to be restored to the area where it originated in the event that it could be put to beneficial use. In the meantime, the District could transfer it out for year by year use and not assess owners who are not served. Carl German, Boise-Kuna Irrigation District, said the water could be sold to the water banks and still have beneficial use.

Bryce Peterson expressed concern about customers who interconnect the irrigation system into the domestic system thereby causing potential health and safety problems. He was also concerned about putting a dry-line system in the middle of a new development. Mr. Peterson was concerned about the liability for the Developer and the fact that there is no value in a non-usable system and the customer ends up paying more for less. Gary Smith said that the Meridian City Council granted the Developer options to install dry-lines in one of Meridians subdivisions due to the location of the subdivisions first phase. According to Meridian ordinances, that is allowable.

Jeff Fereday asked what the rationale of the Council was for enacting that ordinance. Gary Smith replied that they had concerns over a number of complaints that were registered at City Hall regarding the requirements to pay the assessments. He added that in Nampa-Meridian Irrigation District, the pressurized system has not changed in years and might be due to slow growth in that area. Ben Hepler stated that it may be due to the potential health hazards being created by interconnection with the City system, new EPA requirements, and water quality standards. The pressurized irrigation systems must be separated from the domestic water system by an internal air gap that prevents back movement of the water into the domestic system. This would double the costs to the consumer with the pressurized irrigation system because after installation; Boise Water would have to continually monitor their system for illegal cross connections. Other potential problems of the pressurized system include how to avoid freezing, annual testing by a State certified tester; and who will be responsible for the maintenance and repairs?

Jeff Fereday asked Gary Smith if the Meridian Council looked into the likelihood of any chemicals that may have been dispersed into the irrigation water upstream? There is a potential hazard in the future because of fertilizers, herbicides, chemicals, etc. being used at the same time water is being used. Perma Green, etc. use their chemicals with water and then that soaks into the ground to cause future contamination. Unless there is a device in the service line for protection, there is no way of knowing. Ron Redmond, Public Works, asked Ben Hepler if they use one-way valves on meters on the downstream side? Ben stated that Boise Water Corporation is going to install dual check valves in their meters. The purpose of this system is to keep the water from back siphoning.

Dennis Whitehead suggested two possibilities for the City Council: 1) recommend that as the City develops, the water rights are either incorporated into subdivisions through irrigation systems installed by Developers to the property owners; or 2) the water rights are transferred back from the property to the District or to Boise Water Corporation so long as one of the three can demonstrate beneficial use of the water within five years. This would preserve the water rights because someone will be demonstrating beneficial use. Chuck Mickelson agreed with focusing on these objectives for developing a policy as a committee to recommend to the City Council and asked for approval from the committee to agree upon these recommendations. Chuck also added that a third option would be to put the water into a bank with the recovery right of that water to potentially go back to that ground, should those people have that access. Paul Devoe, Boise Project Board of Control, agreed with putting the water rights into a bank staying with that property and then as the land developed, let those people decide if they want the water. There is a need to protect those people who aren't there yet even after the subdivision has gone in.

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Jeff Fereday added that the system is not workable and wants to make sure that the homeowners are protected and the irrigation Districts get a "fair shake" with a disclosure requirement and technical requirements for the hardware. System standards should be established. John Anderson, Nampa-Meridian Irrigation, raised the issue that costs need to be dealt with along with liability problems. Jeff reminded everyone that the possibility of lawsuits stemming from Districts knowingly transferring water when chemicals were being used upstream. Chuck reviewed that the Committee was formed when the City was updating subdivision ordinance that the irrigators went to the City Council and said that the City is not requiring the Developers to follow State law. Based on these concerns this committee was organized.

D. Topics for the Next Meeting

Chuck Mickelson requested that the Committee review the suggestions made and asked for written comments. Chuck said that he will keep the Council updated. In light of the new codes, the City Attorney needs to readdress the whole issue of disclosures and transfers. Committee members should write to the City Attorney expressing their thoughts on how things should be done. This was agreed upon.

The meeting adjourned at 8:55 p.m.

/bw

CF/SF

9WP/MINUTES4.IRR

See pgs 9-10 for staff recommendation (City of Boise staff)

DRAFT

12/28/90

IRRIGATION TASK FORCE SUMMARY REPORT

BACKGROUND

The Irrigation Task Force was established in early January of 1990 to develop a report on the technical and financial implications of the Boise City Council adopting an ordinance requiring developers to deliver irrigation water to new developments. This issue arose as the result of a discussion surrounding the adoption of the revised subdivision ordinance during 1989. The concerns addressed during the subdivision ordinance revision process were complaints of residents not being provided with irrigation water or having the capability of being provided irrigation water, and the fact they were being billed for irrigation water they could not use. Meridian recently adopted an ordinance requiring delivery of irrigation water, Nampa has developed a system over the past several years and Caldwell has a system. There were also complaints from the irrigation districts indicating that developers were not installing irrigation systems and that developers were not responsive to the needs of the irrigation district. There were also complaints from developers indicating irrigation districts were not responsive to the needs of the developers. Finally, there were concerns about the City of Boise's current method of handling water right transfers and the potential loss of water rights. Staff recommended, because the irrigation issue was a complex one, that Council not hold up the adoption of the revisions to the subdivision ordinance, but instead adopt the ordinance and develop a task force to make a recommendation on the irrigation issue to Council at a later date.

On January 11, 1990, the task force, consisting of four representatives of the development community, four representatives representing irrigation water districts, four local engineers in the area, and four irrigation users met to discuss the irrigation issue. A list of participants is attached. One of the objectives of the process was to educate the task force members since each individual had a different perspective on the issue of irrigation in an urbanizing area. This report summarizes the staff's perception of the issues and presents options which can be pursued.

IRRIGATION DISTRICTS - BACKGROUND

It may be best to preface this section by indicating that irrigation law is probably some of the oldest law in the State of Idaho. Irrigation districts were initially created to serve and expand the agricultural economic base within the State. Irrigation districts could probably be categorized into three broad types, each of them being governed by their own set of laws. The rules and regulations governing each irrigation district is dependent on the type of water right that entity has and whether it was a federally organized irrigation district or one that was organized under the laws of the State of Idaho. In some irrigation districts the water rights run with the land, however, generally speaking, the water rights run with the irrigation district and the land has water rights only if it is within the jurisdictional boundaries of irrigation district. Water rights come in three broad areas. There are flowing water rights, storage water rights, and underground or groundwater water rights. An irrigation district's source of water may come from a single type of water right or may be a mixture of all three.

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The general types of irrigation entities are:

1) Canal Companies - Canal companies are stock ownership companies that as a company hold water rights. The water right is divided into shares (stock) and can be bought and sold. (Example: Boise City Canal Company). The water rights held generally are flowing water rights.

2) Local Irrigation Districts - These are irrigation districts with established boundaries; the district generally has a Boise River flowing water right; and was established and is governed by Idaho State law. (Example: Settlers Irrigation District.)

3) Federal Districts - These are irrigation districts with established boundaries that use water from storage dams including Arrowrock, Anderson Ranch, and Lucky Peak. They are part of a Federal Reclamation Project and are subject to federal law and regulation by the Bureau of Reclamation. Some state laws also apply. The Federal Government claims it owns the water right with the irrigation district and land owners within holding a right to use the Governments water as allowed by federal law. (Example: New York Irrigation District.)

4) Lateral Water Users Associations - Typically, the larger irrigation districts distribute water to an identified delivery point within their water distribution grid. This distribution grid and delivery point in the majority of cases has not changed since the initial establishment of the irrigation districts and the district assumes no responsibilities beyond the delivery point. Lateral water users associations were formed as the larger agricultural parcels were subdivided to provide for the conveyance and distribution of water from the delivery point of the larger irrigation district to the individual properties. Homeowner's Associations that undertake the responsibility of water delivery within a subdivision would be a form of a lateral water users association.

There are several large irrigation districts within the City, eleven ditch companies, and probably hundreds of lateral water users associations. Each organization will have its own limitations and differences due to the water rights that the individual organization has, the type of property served, and whether it was developed under state law or developed under federal law.

AREAS OF CONCERN

In the initial meetings of the Task Force, concerns were addressed from the viewpoint of each of the representative groups. Discussion generally centered around development and the problems generated by land transitioning from agricultural to suburban use. The concerns can be summarized as follows:

Irrigation Districts

Irrigation districts were initially established to serve agricultural lands in large acre tracts. Organization and operation has been on a semi-formal basis with staffing levels on a minimal and many times volunteer basis. A basic premise has been that they were established for agricultural purposes and that is where they give priority.

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Areas of concern:

1) Supply - As property is successively being broken up into smaller parcels the logistics of delivery of water to a large number of smaller users becomes a significant problem. This comes in the form of scheduling water requests, duration of use and the disposal of excess water. Many times the type of irrigation delivery system proposed for a development is not compatible with the districts delivery/drainage system.

2) Drainage and Facility Maintenance - As urban development continues, more of an irrigation district's facilities are covered, fenced, diverted or adversely impacted by increased stormwater runoff. Often this occurs without the districts knowledge or without district approval and significantly impairs or increases the cost of facility maintenance.

3) Administrative - Irrigation districts are faced with increased demands on calculation and collection of billings and assessments. They are confronted with the additional burden of review of developers proposals and enforcement of developers and/or homeowners associations in the construction and maintenance of irrigation systems within their district. This is contrary to their original purpose of delivery of water to agricultural lands.

4) Water Rights - Loss of water rights and revenue base is a significant concern of the Districts. Water rights can be lost if they are not beneficially used. The Snake River Adjudication is forcing a review of water rights utilized. Once lost, water rights cannot be reclaimed. Additionally, as water use diminishes and/or assessable land area reduces; the economic viability of a smaller irrigation district is in jeopardy. They may reach a point where they can no longer continue.

can an Irrig. Dist. lose part of its rights) due to lack of b.u. ?

DEVELOPERS:

The development community is interested in meeting the demands of a growing community by providing affordable housing that will be competitive in the marketplace. Some of the areas of their concern are:

1) Supply - Many of the areas that are being developed are smaller parcels which have no direct access to irrigation supply facilities. Cost for offsite irrigation improvements along with costs associated with an onsite distribution system may place them at a significant competitive disadvantage. Additionally, as compared to developments that have easy access to irrigation water, designing a system to be compatible with the irrigation district may be extremely difficult due to irrigation district water scheduling constraints. The irrigation districts do not have standards of construction for delivery systems and no public agency has developed and adopted standards.

2) Drainage - An ongoing problem in subdivision development is what to do with the increased stormwater runoff. Those irrigation districts that do provide drainage facilities, do so to reclaim usable water. In many cases these drainage or water collection facilities are located at the low points of the property which are also the natural drainage channels for a given basin. Irrigation districts constructed those facilities only to handle predevelopment runoff and the districts will not accept increased stormwater discharges. With the natural drainage corridors unavailable, developers have difficulty solving drainage disposal problems.

3) Administrative - Many irrigation districts, canal companies, and lateral water users associations are managed and operated by users on a volunteer basis. Timely review and approval of development and drainage proposals is often very difficult. Many irrigation entities choose not to respond at all.

4) Long-term Maintenance and Operation - The developers do not want to stay involved with the project after build out and usually set up a homeowner's association or a lateral water user's association as the operating entity.

5) Competitiveness within the marketplace - Based on actual installations, the cost to install a pressurized distribution system runs from $700 to $1500/lot in new subdivisions. No standards have been established by any public agency so it is up to the developer's engineer to determine the system design. The higher the quality materials utilized the higher the cost to the developer which results in a lower profit. Lot buyers were not willing to pay the extra cost just for irrigation purposes although most will use it if the system is available.

USERS - Users are individual lot owners within new and existing subdivision developments that are able to utilize developer installed irrigation systems or those who don't have water available but would like to have water. Typical concerns have been:

Supply -

a) Not having an irrigation delivery system installed within their development but paying an annual bill to irrigation districts.

b) The distribution system installed in the development was of poor quality. No construction standards are in place that provide quality control for irrigation system installation and no public agency has responsibility for review of design, inspection or installation.

c) Inconsiderate users cause flooding due to unattended water or will not adhere to a specific schedule for watering. Those users who are served by open ditches have greater problems than those who are served by pressure irrigation systems in that theft of water is more frequent in open ditches.

Operation, Maintenance and Administration

a) Homeowners association is inactive or ineffective in administration of the subdivision irrigation system.

b) The successful subdivision irrigation systems are those that have a committed individual(s) who expends significant volunteer time to assure that the system works. The system has been designed to provide for easy operation and the people within the subdivision understand the system and its limitations.

c) Homeowners Associations usually don't build up an adequate fund to provide for major repairs and/or replacements. As systems age, they become more and more prone to complete failure. When total replacement is required, funds are not

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available, the users may not be willing to assess themselves for repairs and/or replacement and the system will likely be abandoned.

City Administration

Up to this point, City involvement has been limited to attempting to implement the requirements of state law on new developments. **State Statute 31-3805 Delivery of Water requires subdividers of property within an established irrigation district to: 1) transfer the water rights from the land by the owner; or 2) provide for an irrigation system within the development; or 3) person offering the lots for sale shall advise potential purchasers that: a) water deliveries have not been provided; b) property is subject to an irrigation assessment and that said assessments are a lien upon the land; c) purchaser** may petition the appropriate irrigation district for exclusion at a later date. The aforementioned concerns of districts, developers, and users have required the City to look closely at the irrigation/water right issue.

The pertinent section of the subdivision ordinance which relates to irrigation issues is as follows:

"9-20-8.6 WATER RIGHTS AND WASTE WATER REMOVAL:"

"8.6.1 The reservation of an easement along any stream or important surface drainage course located in an area being subdivided may be required by the Council for the purpose of widening, deepening, sloping, improving or protecting the stream or drainage course."

"8.6.2 No ditch, pipe or structure for delivery of irrigation water or for carrying irrigation waste water shall be obstructed, rerouted, covered, or changed in any way unless such obstruction, rerouting, covering, or change has first been approved in writing by the authorized representative of the persons(s) owning the water rights delivered or diverted by means of the ditch. For the purpose of this section, "person" shall be defined as an irrigation district, ditch company, water users association or water right holder, Should the person not have an authorized representative, a determination of the majority of the holder(s) of the water right shall be binding. A copy of such written approval by such authorized representative or majority holder(s) of the water right shall be filed with the construction drawings as provided in Section 8.2.1 hereof. In the event the developer cannot obtain a response from said authorized representative, approval will be assumed to be obtained if the developer meets the conditions as outlined in Section 8.6.6."

"8.6.5 Water Amenities. Ditches, laterals, canals, and drains do not require fencing or covering if it can be demonstrated by the developer to the satisfaction of the city Engineer that said ditch, lateral, canal, natural waterway or drain serves as or will be improved as a part of the development, to be a water amenity. For the purposes of this ordinance a water amenity is defined as follows: Any body of water either natural or manmade, which either exists or is proposed to be improved as a part of the development, in which its banks in all places adjacent to and located on said development are no steeper than one foot vertical per every four feet horizontally (4:1) and which has a depth and velocity in all places adjacent to and located on said

development such that the product of the maximum depth (feet) multiplied by the peak velocity (feet per second) does not exceed four. Construction drawings and relevant calculations shall be submitted to both the City Engineer and the authorized representative of water facility for approval."

"8.6.6 In the event the developer cannot obtain a response, for the modifications proposed from the authorized representative of the water entity, approval shall be assumed to obtained if the following documents are submitted to the review analyst:

1) Copy of certified letter to said authorized representative along with documentation of receipt of letter. Said letter to authorized representative shall be accompanied by plans and shall request written approval forwarded to the review analyst within thirty (30) days of receipt.

2) Letter from a registered professional engineer stating that the improvements and/or modifications to the ditch, lateral, canal, or drain will meet the provisions of Titles 31 and 42 Idaho Code, relating to requirements of delivery of water to downstream users."

Potential areas of City involvement are:

1. Supply
   a. Provide protection of area water rights for future users by requiring specific development actions.
   b. Ensure that provision for use of water is made for downstream users.
   c. Encourage consumer/purchaser awareness of long term benefit of irrigation water availability.
   d. Develop uniform standards for construction, provide review of designs, provide inspection of facilities, assist homeowners in troubleshooting problems.

2. Drainage
   a. Provide for a drainage basin overview to eliminate bottlenecks from being constructed.
   b. Require adequate setbacks grading and safety precautions to be implemented to minimize flood damage and safety hazards.

3. Coordination
   a. Provide a forum through which developments may be processed in order that the irrigation districts, users, developers, and City can arrive at an acceptable solution.

4. Financial
   a. A fee system could be developed to recover review, and inspection costs from developers as a part of the development process.

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CURRENT STATUS OF WATER AND WATER RIGHTS

DOMESTIC WATER AVAILABILITY

One of the questions that arose during the task force discussions was availability of domestic water. In order to answer these questions, the task force had Ben Hepler, of the Boise Water Corporation, and Keith Stokes, from South County Water give an assessment of their ability to provide water for the future growth of the Boise area. The following are excerpts from the minutes of that meeting.

Presentation - Boise Water Corporation

Ben Hepler, Manager and Vice President of Boise Water, shared some facts about and future plans of Boise Water Corporation. Boise Water Corp (BWC) serves approximately 44,500 customers, which is about 95% of the City of Boise. The annual production is over 11.2 billion gallons pumped per year. The summer has a large loading factor, which is attributed primarily to lawn irrigation. During the winter the production is approximately 16 million gallons per day and in the summer the production could peak at 65 million gallons per day. The source of the pumped water is from 54 wells, that includes 4 Ranney collectors. (The Ranney collectors can pull approximately 6,000 gallons per minute each as opposed to only 1,500 gallons per minute each from the wells. BWC drills additional wells to keep up with customer growth. A typical well costs $180,000 - $200,000. The rated capacity of the system, if all the pumps were added up, is approximately 75 million gallons per day.

34372 AFA

The Federal Safe Drinking Water Act has mandated that all surface water be filtered. The State is defining the water from the four Ranney collectors as surface water and not ground water. Those four sources produce 6 to 8 million gallons of water per day. By 1993 BWC will need to have a filter treatment plant on line. At this time, BWC does not see an alternative to replace the Ranney collectors with wells, so it is planning to build a $10 million water treatment plant. This capital expenditure will increase the capital rate base by as much as 30%. BWC plans to use the Ranney collectors as the intake structures for a pilot plant at the end of Marden Street where three of the collectors are located. It may be necessary in the next 20 years to expand the treatment plant or add a secondary plant to accommodate growth in the southeast area of Boise.

The long range projection as far as ground water is concerned, is that there is no indication that the aquifer is below capacity. Their engineering studies show that there is not a serious depletion of the aquifer. The majority of the future sources will be from wells. Studies have shown that they will be able to handle the growth of the combined system, domestic and irrigation needs. BWC has a contract with the Bureau of Reclamation for water storage at Anderson Ranch Reservoir. BWC is acquiring some water rights either from land areas that are being newly developed and for which the canal company can no longer provide services, or those land areas with water rights where beneficial use has not been demonstrated before the water right lapses.

BWC has looked at the possibility of running two separate water systems, irrigation and domestic water. There were too many variables which pointed to the fact that two systems would not be a prudent investment. Two systems present a significant potential for cross connections. A cross connection is a direct connection of an irrigation water system directly into a domestic water system. When the irrigation system pressure exceeds domestic system pressure water will flow from the irrigation system to the domestic system if there isn't a back flow prevention device. The probability

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of weekend plumbers connecting the two systems and the fact that moss killing chemicals along with bacteria is common in irrigation water presents significant legal implications. It would take a very aggressive cross connection control program to assure that domestic water was protected.

Presentation - South County Water

Keith Stokes represents South County Water (SCW), which serves a portion of the south of the freeway and east of Cloverdale Road, and shared some details of their operation. SCW was founded in 1975 and has 13 wells (they use 3 wells in the winter and 9 in the summer). SCW has approximately 2800 active customers, of which 90 are commercial and the rest are residential. The Southwest area has been under a moratorium since 1980 and, therefore no growth has occurred. Pumping numbers increase about 10 times in the summer. The average lot size in the area served by SCW is 1/2 acre. SCW operated on a flat rate system and the production ran approximately 1.2 - 1.3 billion gallons per year. In 1987 they began to meter the system and the production has decreased to 800 million gallons per year. The average customer pays approximately $206 per year. Irrigation water was available to the homeowners in some of the developments and approximately 1/4 of those homeowners are actually using it. SCW has had some problems with homeowners, or even some plumbers, putting in bad water connections. As a result air-gap connections are now required in some subdivisions.

3683 to 3990 AFA

2455 AFA

Questions and Discussion

The group discussed the issues of water rights. Ben Hepler indicated that the water rights could be converted from irrigation rights to municipal rights and then use the water through the BWC water treatment plants to increase the capacity. Steve Lester, IDWR, explained that the individual water right holder would lose his right if the water were not used in 5 years. There are ways to extend the "non-use" period to buy time and keep the water right valid. It was agreed by the group that it is essential that the water rights stay in the Boise area.

could possibly

Bryce Peterson questioned the group wondering if the developers should be looking at getting the water to the users or deal with the physical and legal aspect of getting the water to the water companies. Ben Hepler suggested that getting the water to the water companies may be a good direction to head since BWC is looking for water rights. However, BWC doesn't want to buy more water rights than they can beneficially use because they would eventually lose them.

Mike Wetherell questioned the irrigation districts as to if there was a way to determine which water rights within their district is not being used. John Gannon, New York Irrigation District, responded that they have approximately 17,000 acres in their district and about 2000 acres are not using their water rights. John Anderson, Nampa-Meridian Irrigation District, replied that there are only 200 acres that have been excluded out of 63,000 acres.

SNAKE RIVER ADJUDICATION

An item that was briefly discussed that could have significant impacts on the water rights of the area was the Snake River Adjudication. A court ruling over water rights at Swan Falls changed the status of water rights within the State from partially appropriated to an over appropriated water system. This could have potentially significant impacts to the water rights of our area. A brief overview is attached to this report.

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SYSTEM COST

Potential irrigation system installation costs was another area which the task force discussed. Based upon irrigation system installation costs in adjacent communities and actual costs indicated by some of the developers on the task force; cost for irrigation would range between $700 to $1500 per average lot depending upon lot size, type of construction materials used, and proximity to a reliable water source.

Depending upon future domestic water rates; it was a generalized consensus that provision for an irrigation system on larger lots might be cost effective; however, small lots which have limited water usage would probably not be cost effective.

One thought that was agreed upon by virtually everyone, that if irrigation systems were going to be required; then standards of construction need to be adopted so that the home buyer is not short changed and all developments are on a competitive basis.

POTENTIAL SOLUTIONS

A number of solutions to the irrigation problem were discussed. Probably the two most predominant that were discussed were:

1. The City establish a municipal irrigation district to take over irrigation responsibility city wide. The effect being the City would be creating in essence a new utility, probably parallel in size to that of its sewer system, if not larger. The major question being in this approach is whether having a dual domestic water system and a separate irrigation system is economically feasible or the most cost effective approach to take. Additionally, as discussed earlier, Boise Water Corporation was apprehensive with regard to the cross connection hazard presented by the dual systems being in close proximity.

2. Many of the developers indicated it was their preference to let the system work as it currently does and the decision as to whether an irrigation system is installed or not installed be left up to the developer. This position was strongly endorsed by Boise Water Corporation's Attorney, Jeff Fereday from the standpoint he felt that the market should decide whether an irrigation system is installed or not installed.

   After listening to both sides over the course of the task force meeting, it is staff's preliminary recommendation that the following procedure be adopted. This preliminary recommendation is based upon the premise that it is in everyone's best interest to attempt to keep water rights that are currently available to the residents of the Boise Valley, in the Boise Valley, and not allow them to be lost to new users downstream. The recommended solution therefore would be comprised of three options from which a developer could choose in order to proceed with meeting his water right requirement.

   Option 1: The developer could install an irrigation system that would individually serve each property within the development.

   Option 2: The developer could transfer water rights back to the irrigation district for beneficial use on the Boise area agricultural lands. In this particular option, the irrigation

Report continues to mention developer transferring H2o rights "back to irrig dist". The irrig dist. H2o is owned by the district. I assume the language used in report refers to excluding some property from irrig. dist. assessments.

district would have to both accept the transfer of the water rights and have a legal capability to use the water on other lands for benefit. If both the conditions are not met, then the water rights may be ultimately lost.

Option 3: Transfer their water right to either the Boise Water Corporation or South County Water for municipal purposes. At this point in time, this option would only be available to those irrigation districts that have storage water rights. Boise Water would have to both accept the water right and be able to put it to beneficial use. In pursuing Option 3, the City may have to take some formal action to encourage Boise Water or South County Water to use surface water rights prior to proceeding with the groundwater development. This is because it is currently cheaper and easier to drill new wells and develop the groundwater resource rather than attempt to construct a surface water treatment plant and use existing surface water rights.

In conclusion, it should be noted that water rights, for all practical purposes, cannot be banked. This is especially true of surface or storage water rights. The bottom line is, if they are not put to beneficial use for a five year period of time, there is a potential for the loss of those water rights. In pursuing the approach to force Boise Water Corporation into utilizing surface water rights first, we can, to a limited extent, bank our underground water rights. In pursuing this avenue, it may be appropriate to have the Boise area aquifer identified through study, as a critical aquifer. Designation of a critical aquifer would require more extensive review of groundwater well drilling permits and, hopefully, retard the proliferation of those same items.

RWR/mm

CF/SF

5WP/IRRIGSUM.RWR

OCT 0 1 1991

Notes for 23 April Meeting - D. Tuthill

Holgate - down 3.7
ICorn - down .24
Water came into the canal
Carsons - down 2.4
Irrigation well.
Tertling well - down .3', now back to normal
Sage acres - local response (Day) Good installation
Hormachea - down about 1 foot

750 gpm flow from pump

Consider keeping in place for Sage acres problem.

— Compute canal seepage

→ 10:00 Thurs / one employee

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Attendance Roster

Meeting on Floating Feather Well 4/23/91 2:00pm

Name		Representing
Harley Carson	593 Palmetto, Eagle 83616	water user
Helen Pardew	P.O. Box 699, Eagle 83616	water user
Ted Persons	11133 Hy 55 83703	" "
Carol Jensen	3065 Floating Feather Rd.	water user
Steve Baker		IDWR
Bill PARDEW	PO Box 699 Eagle	Fl. water User.
DENNIS WHITMORE	3319 DEWEY, BOISE, ID 83703	FLOATING FEATHER HILLS, INC.
Bert Bradley	274 Harvey St. Eagle	" " " "
Dave Roylance	4227 Emerald Engineer	" " "
Sheri Chapman	410 Orchard Ste 144	Floating Feather Hills Inc
Spencer Wood	Dept. Geosciences - Boise State University	
DUANE STUECKLE	200 PARKWAY DR. Boi	F.F.H.
~~Steve Yates~~	2417 BANK DRIVE ~~Ste~~ 100	F.F.H
Georgia Mackley	2417 Bank Dr, Suite 100	F.F.H.
Chuck Feast	9730 Tanner Lane Boise	FFH

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Floating Feather Well
Test & Geoth. Study

Alan Robertson,
ID. Dept. Water Resources
Statehouse
Boise, ID 83720

David Roylance
4227 W. Emerald
Boise, ID 83616

Steve Baker
ID. Dept. Water Resources
Statehouse
Boise, ID 83720

Sherl Chapman
410 S. Orchard
Boise, ID 83705

Spencer Wood
BSU Dept. of Geology
1910 University Drive
Boise, ID 83725

Charles Feast
CH2M Hill
700 Clearwater Ln.
Boise, ID 83712

Ed Squires
BSU Dept. of Geology
1910 University Drive
Boise, ID 83725

Bill Pardew
P.O. Box 699
Eagle, ID 83616

Jack Kelly
Montgomery Engineers
161 E. Mallard
Boise, ID 83712

Ted Persons
11133 Hwy 55
Boise, ID 83703

Norm Young
IDWR Division Administrator
Statehouse
Boise, ID 83720

Dennis Sutherland
11036 Runway Dr.
Boise, ID 83703

HOMCO
2417 Bank Drive
Suite 101
Boise, ID 83705

Harley Carson

Eagle, ID 83616

Treasure Valley Village
4720 Emerald
Boise, ID 83702

Will Burnham
3220 Victory View Dr.
Boise, ID 83709

Floating Feather Hills, Inc.
2417 Bank Drive
Boise, ID 83705

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File No. Floating Feather Protested App

STATE OF IDAHO
Department of Water Resources

FIELD INSPECTION REPORT

1. Date: 12 Apr 91 Time: 12:00 Photos: X Yes ___ No Slides

2. Inspection involves: X Water Rights ___ Dam Safety ___ Well Construction or Driller
___ Waste Well ___ Stream Channel Alteration ___ Water Distribution
___ Other ___

3. Reason for inspection: Check flow rate of test flow w/ polysonic meter

4. Stream name: ___

5. Stream characteristics: ___

6. Stream width: ___ Depth: ___ Gradient: ___ Q: ___ est. ___ meas. ___

7. Location: ___ 1/4 ___ 1/4, Sec. ___, Twp. ___, Rge. ___, County ___
Landmark: ___

8. Person(s) contacted: ___

9. Dam name: ___ Spilling: ___ No ___ Yes Q ___
Outlet open: ___ No ___ Yes Q ___ Spillway open: ___ Yes ___ Fibrd ___ Gate open
Freeboard: Spillway ___ Crest ___ Res. stage: ___ Rising ___ Falling ___ Rate

10. Area characteristics: Depth to water (from pressure gauge) = 156'
Mc Crometer Reading = 96874006 at 12:44 pm on 12 Apr

11. Weather conditions: ___

12. Describe activity/conditions inspected: ___

13. Are all requirements being met? ___ Yes
If not, check type violated: ___ Statutory ___ Rules & Regs ___ Permit

14. Describe impact on others: ___

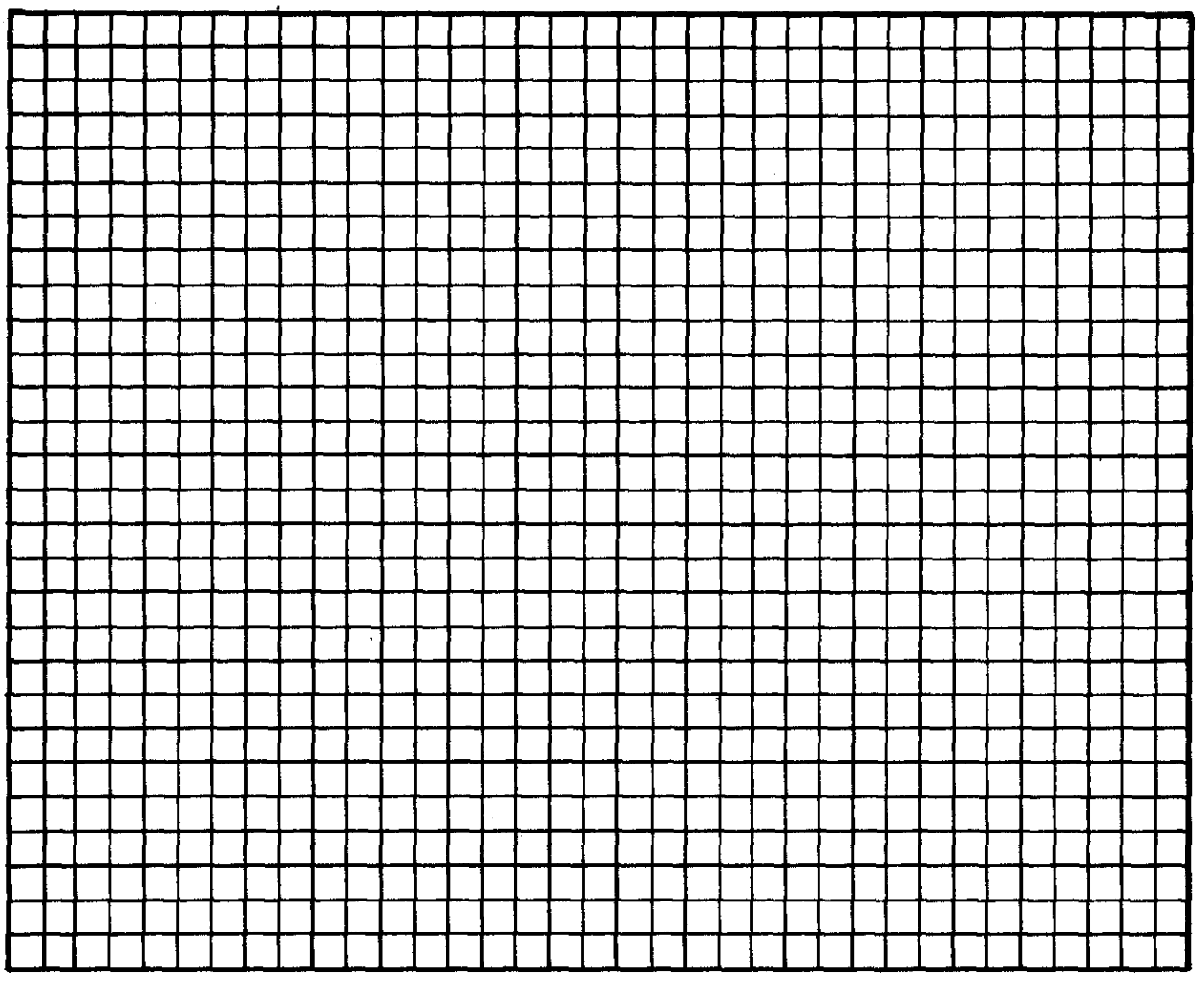
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15. Describe alternatives: ___

16. Remarks _____

17. Followup Necessary: X Yes ___ No Describe: Continuing followup on well test

18. Sketch: Include direction, important dimensions, photo locations, landmark or reference point



19. Action taken at time of inspection: Measured flow

20. Signed: David R. Tuthill Jr.

---

21. Follow up action: Date: _____ Additional Memo Prepared: ___ Yes ___ No

Describe: _____

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22. Signed: _____

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Western Regional Office

PHILLIP M. BARBER

HAWLEY TROXELL ENNIS & HAWLEY

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POCATELLO OFFICE
125 NORTH GARFIELD
POST OFFICE BOX 4167
POCATELLO, IDAHO 83205

TELEPHONE
(208) 233-0845

July 11, 1991

VIA MESSENGER

David R. Tuthill, Jr.
Manager, Western Regional Office
Department of Water Resources
2735 Airport Way
Boise, ID 83705

Glen Saxton, Hearing Examiner
Department of Water Resources
2735 Airport Way
Boise, ID 83705

Re: Floating Feather Hills, Inc.
Application for Permit No. 63-11413

Gentlemen:

Enclosed please find the affidavits of Charles Feast and Sherl Chapman which they executed today.

With these affidavits, we have now made our final submission relative to the hearing on Water Rights Permit No. 63-11413. These affidavits represent our response to the post-hearing submissions made by three of the protestants. We have no further submissions.

Thank you for your consideration.

Very truly yours,

Phillip M. Barber

OCT 01 1991

PMB:b
Enclosures
cc: Bryce Peterson, w/enc.
Neil Wilton, w/enc,
Ms. Carol Jensen, w/enc.
Dennis Sutherland, w/enc.
Sherl Chapman, w/enc.
Charles Feast, w/enc.

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AFFIDAVIT OF CHARLES FEAST, P.G.

CHARLES FEAST, being first duly sworn, deposes and says:

1. I make the following affidavit based upon my own personal knowledge and inquiries, and on the results of inquiries made under my supervision.

2. I have been retained as an expert groundwater geohydrologist by the Applicants, and in that capacity caused to be performed and supervised the pump test and related data collection, performed certain simulation and other analysis of data, developed certain projections and testified in the hearing on Permit No. 63-11413. My qualifications and the foregoing activities are fully set out in that testimony and in my report which was made a part of the record relative to that Permit. I have reviewed the post-hearing submissions of Mr. Neil Wilton, Ms. Carol Jensen and Mr. Dennis Sutherland, and there follows my conclusions concerning those submissions. I have also reviewed the affidavit of Mr. Chapman and I agree with the conclusions set out therein.

3. Carol Jensen's approach to determining irrigation diversion rates uses the same numbers and assumptions that I did on pages 55 and 56 of the report. However, Ms. Jensen suggests that irrigation diversion rates be reduced by averaging to an annual basis instead of the higher rate for a shorter period. Irrigation rates must apply to the irrigation season, thus using both my calculations and those of Mrs. Jensen's the irrigation

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demand for homes is about 1.85 cfs (over a 6 month period). Irrigation of common space and schools is not included. The requested irrigation diversion of two cfs is supported and should not be reduced.

4. Dennis Sutherland expresses several concerns over my use of "speculative" terms in the report. Almost everything about the hydrogeologic profession is in a sense "speculative" in that everything happens underground and no amount of data can be collected that permits us to make absolutely unequivocal statements about natural groundwater systems. The best we can do is use our training and best judgment and experience to describe and evaluate the response of hydrogeologic systems. There is nothing I can do if my use of words which responsibly convey a professional recognition of the realities of groundwater systems analysis concerns him. It is far better to acknowledge that some uncertainty exists than to make unsupported hard conclusions. Nonetheless, in my opinion such uncertainties have been reduced to the absolute minimum by the application of best professional practice and the use of very conservative assumptions given all test and data parameters.

5. One of Mr. Sutherland's repeated concerns is over recharge to the aquifer (#1, 4, 5, 6 and 9). I identified and qualitatively described the recharge sources that are active in this aquifer system. I cannot and did not quantify the amount of recharge from each source, but based on my experience and observations during the aquifer test, irrigation seepage and

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lateral inflow to the aquifer from the north and east are the two most significant sources.

6. Relative to Mr. Sutherland's concern over the "speculative" qualifiers I used with regard to recharge, I believe that my conclusions represent the product of best professional practice and any uncertainties are well within accepted limits. The basic underlying conclusion from my analysis is that even without recharge for 30 years, predicted drawdowns in the aquifer due to the proposed diversions will not significantly and negatively impact senior water rights. That conclusion was based on very conservative "worst case" assumptions and I continue to hold it.

7. My discussion that long term aquifer recharge is apparently sufficient to replenish the aquifer on an annual basis is correct. The qualifier "apparently" was used because the minimal long term monitoring data available and spot records are inconclusive, some wells show increases and some decreases in water levels. Water levels in an aquifer respond to a number of factors including natural recharge, irrigation recharge and well discharge and natural lateral discharge.

8. In addition to diversions from wells the aquifer discharge component of a water balance includes lateral flow out of the area. In this area the hydrologic gradient (slope of the water table) is to the southwest at about .007 feet per foot or about 37 feet per mile. Using the aquifer characteristics determined from the pumping test the natural lateral discharge is

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700 gallons per day per linear foot (Transmissivity of 100,000 gallons per day per foot times the gradient, 100,000 gpd/ft X .007 = 700 gpd/ft). This equates to about 2500 gallons per minute flowing to the southwest across a one mile width, i.e. about the width of the Floating Feather Hills project area.

9. Stable water levels in an aquifer do not automatically indicate existing groundwater diversions balance recharge. If water levels in an aquifer are not rising or falling the combination of diversions and natural flow are in balance with recharge. As local diversions increase, less water is lost to lateral outflow. The total inflow and outflow to the aquifer remains constant and water levels remain steady.

10. In his comments 2, 3 and "Note:" on the first page and the last two complete statements on the second page, Mr. Sutherland expresses his concern and apparent confusion over the "fault" and my observation that the aquifer at the test well did not have a significant confining bed separating the "spectrum" (sic, "section") into distinct aquifers. The two features, "fault" and "confining bed," are hydrogeologically distinct as elaborated on below.

11. The geologic discontinuity to the north and northeast of the FFH project, whether it is a true structural offset (geologic fault) or a product of different environments of deposition and erosion, does exist based on evidence from geologic logs and other information. The "fault" is an essentially vertical feature bounding the aquifer on the north and east. The

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hydrogeologic properties of and subsequent effect of the "fault" on the hydrogeology of the area is not known and was not used in my analysis. The discontinuity may be hydrogeologically transparent (no effect) or it may act as either a hydrogeologic conduit or as a partial barrier (higher or lower water bearing capability than the aquifer, respectively).

12. My statement that lateral flow from the north and east is a significant source of recharge is true regardless of the hydrologic properties of the "fault." Comparing the lateral flow calculation presented above and the irrigation canal loss calculation presented in the report lateral inflow to the aquifer may be more significant than canal recharge (250 gpm from canals versus 2500 gpm lateral flow).

13. My statement on page 14 regarding a "significant confining horizon" refers to the apparent absence of a thick and persistent horizontal layer having sufficiently low water transmitting properties that it separates the vertical section of the aquifer into distinct layers; it does not refer to the "fault."

14. With regard to Mr. Sutherland's summary remarks, he states the application should be turned down because it is "speculative." His reference to speculative may refer to my use of qualifiers where I couldn't better support my beliefs with actual data or he may be referring to the project. The project is not speculative in nature. I prefer "qualified remarks" instead of "speculative remarks."

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15. Water levels in the wells did not return to pretest water levels. This is a true statement from the report. When the recovery test was terminated water level in the production well was within one-half foot of pretest levels after a maximum drawdown of 81 feet during the test. Figures 6 through 13 (hydrographs) provided in the report clearly show that water levels were still recovering rapidly in most wells when the recovery portion of the test was terminated.

16. It is important to reiterate that pretest water levels were falling noticeably, and that most wells had recovered above the projected water level (assuming pretest trends continued at a constant over the test period). Water level in the production well at the end of the recovery period was about 2.5 feet higher than the projected water level. The recovery data were sufficient to demonstrate the aquifer's ability to quickly recover from the withdrawal of 750 gpm for 30 days and to obtain additional insight into the hydrogeologic properties of the aquifer.

17. That the aquifer responded at the distances noted and times noted by Mr. Sutherland are true. The magnitude of the response however was very small, less than one foot after 30 days. These quick responses of very low magnitude are indicative of a highly stratified aquifer as discussed in the report.

18. This aquifer does represent a sole source of water for the area and should be protected. Protected however does not refer to refusing to allow additional diversions. Protected refers to identifying real and potential sources of aquifer contamination

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located in recharge areas. Examples include: feedlots, septic tanks, fuel storage tanks, poor well construction and excessive fertilizer and agriculture chemical application, and water quality in the Farmers Union Canal.

19. Mr. Neil Wilton makes several comments, all more or less intermixed. With regard to the imbalance of recharge and discharge, I provided a detailed discussion of that in my response to Mr. Sutherland's comments. In summary, natural lateral discharge plus groundwater diversions through wells balances recharge. Excess recharge is lost to lateral flow. Increased diversions can occur without a decrease in water levels. Inflow and outflow of the aquifer appears to have remained balanced for a number of years although data is sparse. Even without recharge the projected impact from the proposed diversion is not significant to senior water rights.

20. With regard to his quotes from Mr. Baker's report about well spacing, Mr. Wilton incorrectly associated these statements with the aquifer beneath the Floating Feather Hills property. Mr. Baker was referring to the Sage Acres Subdivision area, substantially to the east.

21. Mr. Wilton suggests even diversions for the proposed domestic use could be shown to demonstrate overdrafting of the aquifer "if bias toward the low values for transmissivity and recharge." I assumed no recharge for 30 years which is as low a bias as there is. Even Mr. Wilton acknowledges that there is recharge by his comments on page 2. I also used the lowest

OCT 0 1 1991

reasonable estimate for aquifer transmissivity based on my analysis of the aquifer test data. I did not use the lowest value calculated 12,000 gpd/ft (Table 1) nor the highest value (681,000 gpd/ft) for reasons stated in the report. The actual mean representative value from all analyses was 174,000 gpd/ft but I used 100,000 gpd/ft to intentionally bias the results toward the lower end. The results were the same, the proposed diversion will not significantly and negatively impact senior water rights or the aquifer itself.

21. Mr. Wilton correctly observes that the recovery portion of the test was interrupted. The recovery portion was not interrupted solely because of the reasons he gives. The recovery data began to show increasing effects of interference from other diversions and in the case of the Eichhorn well direct recharge. Primarily however the recovery portion was terminated because (1) the rapid recovery of the aquifer was demonstrated, (2) aquifer properties could be determined, (3) well owners whose cooperation made the test a success needed use of their wells again, and (4) the need to reduce and analyze the data and produce the report.

22. Mr. Wilton states that Mr. Baker and I reached materially different conclusions. Mr. Baker's report addresses the entire Eagle study area whereas my report was more specific to the proposed diversion. Mr. Baker used a different approach to approximate aquifer properties from the pump test data but his results and my results compare favorably for the time period Mr. Baker was comfortable with. I dealt much more intensively with the

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pump test data and therefore was more comfortable extending predictions out in time. I knew that my results were conservative (predicted higher drawdowns) because I used conservative values and no recharge. What the exact drawdown is at a given point in time and distance does not concern me as long as the conservative estimate still does not represent a significant impact.

FURTHER, affiant saith not.

Charles Feast

Charles Feast

STATE OF IDAHO)
) ss.
County of Ada)

SUBSCRIBED AND SWORN before me this 11th day of July, 1991.

Notary Public for Idaho
Residing at Boise, Ada County, Idaho
My commission expires on 1/27, 1992

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JUL 11 1991
Department of Water Resources
Western Regional Office

AFFIDAVIT OF SHERL L. CHAPMAN

SHERL L. CHAPMAN, being first duly sworn, deposes and says:

1. I make the following affidavit based upon my own personal knowledge and inquiries, and on the results of inquiries made under my supervision.

2. I have been employed by the Applicants as a consulting ground water geologist. In that capacity I designed and supervised construction of the Applicant's test well, remained involved in the process through Mr. Feast's test, reviewed his report and testified at the hearing on the application for Permit No. 63-11413. My specific involvement as well as my qualifications are more fully set out in that testimony. I have reviewed the post hearing submissions of Mr. Neil Wilton, Ms. Carol Jensen and Mr. Dennis Sutherland, and I have set out some of my observations and opinions relative to those submissions below. I have also reviewed the affidavit of Mr. Feast and I concur in the observations and conclusions contained therein.

3. Mr. Wilton indicates that the landowners have no recourse for loss of ground water resources. The CH2M Hill study very specifically demonstrates that there will be no impact to existing ground water users and no depletion of water under existing water rights. Moreover, it is my experience that senior

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water right holders do have recourse if they are injured, through both the Department of Water Resources and the legal system.

4. The Department of Water Resources has long recognized that urban irrigation for lawns and gardens is far less efficient than irrigation of cropland and has routinely issued water right licenses for diversion rates much higher than those for cropland. Idaho law, however, is clear that a measure of one's water right is limited to that water that can be applied to beneficial use. If, for some reason, water described in a permit or in an existing right is not applied to beneficial use, the unused portion of the right may be eventually lost through the process of forfeiture and abandonment. It is my opinion that this will not be the case with our project, however, because of the need for higher diversion rates for the land that will be irrigated. Any water not needed for irrigation of the properties within the project will be left in the canal for use by others in the system and will continue to provide aquifer recharge.

4. Concerning conversion of irrigation water to domestic use, the irrigation water Mr. Wilton refers to in his letter is surface water and probably inconvertible since Floating Feather does not even hold the water right but merely holds shares in the canal company over which the board of directors have control. If Mr. Wilton is referring to the irrigation component of the application which is ground water, he is correct in that Idaho law provides the mechanism for a change in nature of use. However, given the public process we have just been through and the

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Department's awareness of the potential impact if the domestic withdrawal is increased significantly, a change in nature of use of this water would be extremely difficult to obtain, if not impossible. Any change in nature of use application would have to follow the normal transfer process which requires full public notice and opportunity for protest by any members of the public who feel they may be injured. This is an issue not ripe for discussion.

5. Mr. Wilton discusses a future Ground Water board. Provisions exist in Idaho law to establish a Ground Water Board to conduct investigations into allegations of interference and other injury to water right holders. The Department convened such a Ground Water Board to investigate problems in the Downey area between a Mr. Stewart and Mr. Reisner. However, the Department of Water Resources has found that process to be extremely cumbersome and not very useful in the face of today's technical problems, and It is, therefore, unlikely to be employed in this instance. I am not sure how a Ground Water Board as suggested by Mr. Wilton could help any interference issue in any event. It has been my experience that the Department would be reluctant to delegate authority to such a Board to administer water rights in the State.

6. Mr. Wilton also discussed the uncertainties in both the Baker and Feast report. I would not argue that there are not uncertainties in anyone's interpretation of the ground water resource and potential long term impacts out some 20 or 30 years. All long term projections must have some level of uncertainty

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relative to the out years of the projection period, and ground water is, by its very nature, hidden and mysterious. The long projection period in the report was used at the request of the Department. Nonetheless, analysis of the ground water system, potential drawdown effects and impacts were made using the best technology available, more data than most doctorate theses have available and the depth of the expertise of many people very experienced in the hydrologic and geologic field. I am not aware of any analysis of a local aquifer that has been conducted in Idaho with more detail and concern for potential water resource development and impact.

7. Toward the bottom of page 2 of his submission Mr. Wilton seems to translate Mr. Baker's statement regarding well spacing into a statement that declines are occurring in the water table. Mr. Baker was very clear in his report that the reported well declines that have occurred primarily to the east of our project are, in fact, not aquifer depletion problems but well interference problems in that specific area because of the close spacing of domestic wells within subdivisions. This interference cannot be interpreted to be an overall water level decline or depletion of the ground water resource in the area but, in fact, poor design and placement of the domestic wells within the subdivision, demonstrating a lack of concern by subdivision owners rather than a lack of water supply. These well owners seem to be accusing the applicants of the very act they are in fact guilty of,

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that is, improper design and consideration for hydrologic parameters and impacts to their neighbors.

8. Mr. Wilton's first paragraph on page 3 relates to overdrafting of the aquifer and biasing data toward the low side of transmissivity and recharge values. As I recall, the Feast report did exactly that. During my discussions with Mr. Feast, he indicated that he had purposefully used very conservative values for transmissivity, storativity and recharge and, in fact, the worst case scenario assumed no recharge at all to the aquifer system with existing levels of depletion. Even with that worst case scenario, based on these very conservative assumptions, there were no significant impacts to the ground water resource in the area.

9. Mr. Wilton also suggests Mr. Baker's and Mr. Feast's differing conclusions as a reason to reject at least a portion of our application. In fact, fairly read, the two reports did not differ significantly but were very close in their final conclusions. Looking at some of the data, it appears that the drawdown effects were within .5 feet (Feast fig. 30; Baker fig. 11), at similar distances from the production well. In the area of groundwater hydrology, this is excellent resolution. Mr. Wilton is trying to stretch the point beyond sound or credible analysis. The data were not judged as inconclusive but were carefully qualified in order to insure that professionalism was maintained. The only major difference as I recall between the two reports was that Mr. Feast did not include a section relating to monitoring

OCT 01 1

since that had been agreed to prior to the hearing by Mr. Peterson and other principles of the applicants.

Further, Affiant saith not.

Sherl L. Chapman

SHERL L. CHAPMAN

STATE OF IDAHO)
) ss.
County of Ada)

SUBSCRIBED AND SWORN before me this 11th day of July, 1991.

Notary Public for Idaho
Residing at Boise, Ada Cnty, Idaho
My commission expires on 1/27, 1992

FILED
OCT 01 1991

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705 - (208) 334-2190

CECIL D. ANDRUS
GOVERNOR
R. KEITH HIGGINSON
DIRECTOR

June 28, 1991

Phillip Barber, Esq.
877 Main St.
Boise, ID 83702

RE: Application for Permit No. 63-11413 in the Names of Floating Feather Hills, Inc. and Treasure Valley Village

Dear Mr. Barber:

Enclosed for your response are copies of the three written comments this office received regarding the technical reports provided at the hearing in the above-referenced matter dated June 13, 1991. Coments were submitted by Mr. Neil Wilton, Ms. Carol Jensen, and Mr. Dennis Sutherland.

As per the guidance of the Hearing Officer at the hearing, any responses must be submitted to the Department by July 8, 1991.

Sincerely,

David R. Tuthill, Jr. /st

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office

Enclosures

cf: Glen Saxton

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Department of Water Resources
Western Regional Office

File — Jun. 26, 1991

Glenn Saxton, P.E., Hearing Officer
✓ or David Tuthill, Jr., P.E., Western Region Mgr.
Department of Water Resources
2735 Airport Way
Boise, Idaho, 83705

Dear Sirs,

Reference is made to your ruling at the June 12, 1991 hearing concerning application for permit No. 63-11413 in the name of Floating Feather Hills Inc. and Treasure Valley Village, to allow comments until June 28, 1991, on Hydrogeology Report "Results of the 30 Day Pumping Test and Aquifer Analysis." I wish to submit the following comment.

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On pages 55 and 56 of the above captioned report, Mr. Feast uses a total of 1000 homes, with 500 homes relying on potable water for irrigation every other day for 6 months, using 10 gallons per minute, 8 hours a day.

Therefore, using this data:

1000 homes total

500 homes irrigated by potable water wells

alternate day sprinkling = $\frac{500}{2}$ = 250 homes

250 homes x 10 gallons per min. annually =
2500 gallons per minute annually

6 months basis = $\frac{2500}{2}$ = 1250 g.p.m.

$$\frac{1250 \text{ g.p.m.}}{450 \text{ g.p.m./C.F.S.}} = \frac{2.78 \text{ C.F.S.}}{24 \text{ hrs.}}$$

$$\frac{2.78 \text{ C.F.S. } / 24 \text{ hrs.}}{3 \text{ (8 hr. basis)}} = 0.926 \text{ C.F.S. for}$$

6 months, 8 hrs. per day on alternate day sprinkling for 500 homes.

In conclusion, using Mr. Feasts' estimating data which was used for the basis for his recommendations, the application for permit as shown in

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Appendix I, and the above calculations, the amount for irrigation water of 2.0 CFS should be reduced to 0.926. CFS.

Very Truly Yours,

Carol Jensen

3045 Floating Feather Rd.
Eagle, Idaho
83616

C.C. Philip Barber, Atty.

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JUN 28 1991
Department of Water Resources
Western Regional Office

June 28, 1991

Protest
Floating Feather Hills, Inc.
Application No. 63-11413

I would like to start my protest by quoting from the last paragraph of the conclusions, page 5 of the Feast report.

"The ground water resources of the Eagle area need to be better understood to allow informed decisions on water resource and water rights issues."

It appears that a large number of developments are being planned for the Eagle area which will put tremendous pressure on an already suspect water resource.

Mr. Feast after this test well study and the preparing what could be described as a book on the study chooses in his conclusion to voice his concern about the lack of knowledge of Eagle area groundwater.

I agree, and while I'm not, persay, putting down Mr. Feast, because I know his report is speculative by nature. I do want to point out that throughout his report he talks about issues in speculative terms. Examples are:

1. Page 3 Summary - "Lateral inflow from the aquifer margin to the north and east and seepage from canal and irrigation laterals are **probably** the most significant sources of water."

2. "There does not **appear** to be significant confirming horizon separating the spectrum into distinct aquifers" Page 14, Hydrogeolic-setting.

3. Page 17 - "Geographical and stratographical data **suggest** a major discontinuity bounds the aquifer on the east and north.

Note: Doesn't it **appear** that 2 and 3 contradict each other.

4. Page 51, bottom-recharge - "**Insufficient** data exist to quantify or **even** prioritized by magnitude the relative contributions each potential source contributes. Lateral inflow and irrigation seepage are **probably** the most significant sources."

5. Page 5, long term recharge - "Annual recharge is **apparently** sufficient to replenish the aquifer on a year to year basis.

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6. Page 57, aquifer recharge - "Although not investigated during this study, canal leakage is **probably** a significant source of water in the

aquifer."

7. Page 73, recommendations - "**of particular concern** is whether the aquifer is being mined over the long duration."

8. Page 73 - "Additional aquifer tests **are needed** to determine the lateral and vertical variability to the aquifer.

9. Page 52 - "annual recharge is **apparently** sufficient to replenish the aquifer on a year to year basis."

My protest is that at best Mr. Feast's report, by his over verbiage, leans towards a lot of speculation. The issues here in the short term and especially the long term are **far** too serious to be determined by the information in hand and some of M.r Feats's comments in his report (examples listed above) tend to support my concerns.

I have two additional concerns:

1. The well is set at a depth (major water draw area) to draw water at 200 feet to 265 feet while Floating Feather Hills indicates that they have cased the well at 190 feet to protect senior wells. I think it is significant that the well is set just below the levels of existing well. Page 5 - "Most of the wells in the area are 125 to 200 feet." Based on their own experts, the aquifer has a vertical down recharge. If this is so, then that fact that the well is below other wells and cased to 190 feet appears to enhance the possibility of water draining vertically down into Floating Feather Hills well, during short water supply, from existing wells and this could cause damage to senior wells in the area.

2. The assumed fault that is mentioned in this study is one page 17. There is no proof to date that this fault is there. In this report it is indicated that part of the aquifer is recharged from the north and east, page 51 and page 53, and that this lateral inflow is one of two significant sources of recharge.

If the fault were there then it would interfere with this lateral inflow from the north and east and one half of the significant recharge would be significantly reduced or stopped.

On page 14 - "There does not appear to be a significant confirming horizon separating the section into distinct aquifers"

If there were a fault, this statement would also probably not be true.

Page 3 summary - also at the end of paragraph 2 states that "**probably** lateral inflow from north and east is one of the most significant sources of water. Note: It says from the aquifer margins and on page 14 Feast states "it does not appear there is a

significant confining horizon separating the section into distinct aquifers." Therefore the areas of all test wells would be included in the aquifer margins and the water from the north and east would all be coming from one aquifer and water coming into the recharge from the north and east would appear to **not** be impeded by a fault. If one of these two recharges did not exist you would, it appears, have a very serious problem with the assumed recharge of this aquifer.

Summary

I think that there is, even after this test, still many serious questions about the water supply in this area and that water from a new well to supply approximately 900 new homes based on what is known today is still speculative and that this permit should be turned down.

On page 27 it is indicated that eleven days after the test "water levels in some wells had not fully returned to pretest levels" and it should be noted that the canal water had returned during the test - a significant source of recharge.

Page 52 - wells as far away as 2500 and 3700 feet responded within 100 to 150 minutes of pumping.

Page 74 - "This aquifer represents a **sole** water supply for this area. Recharge areas should be identified and be protected."

I agree and that is why I am protesting, I am trying to protect this water supply as Mr. Feast has charged us to do.

Thank you for your time and consideration - it is most appreciated.

Sincerely,

Dennis Sutherland

cc: Phil Barber

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Department of Water Resources
Western Regional Office

FFI File

632 North Edgewood Lane
Eagle, Idaho 83616
June 20, 1991

Mr. Dave Tuthill
Idaho Department of Water Resources
2735 Airport Way
Boise, Idaho 83705

Dear Dave,

I wish to reiterate my opposition to the application for irrigation water for the proposed development known as Floating Feather, Inc., Application No. 63-11413.

At the outset I also want to state that my position is my own and that I do not write or speak as a spokesperson for any one outside of my immediate family who dwell in my residence at 632 North Edgewood Lane, Eagle, Idaho. I realize my general opinions may be shared by others, but I speak only for myself.

My opposing position may be simply stated: **adequate irrigation water rights already exist for the land in question where the proposed development is to take place.** With the development in place, roofs, sidewalks, driveways and streets will decrease the irrigable acres for lawns, parks, shrubs, and trees. Total net irrigation requirement, therefore, will be significantly reduced with the completed development. The existing water-right, already delivering about 5.2 cfs via the Farmer's Union Canal, will provide proportionately more irrigation water for the development as irrigable land is lost to the development. The irrigation water situation will, therefore, improve for the development.

So, I must ask myself a question: is it fair or just for established landowners and users of the local aquifer to be subjected to the potential ground water loss, without recourse, for a withdrawal from the aquifer that is already covered by an existing surface right which also delivers water to the property in question? I think not. To make an analogy: the Eskimos already have enough snowballs.

If the application for irrigation water withdrawal from the aquifer is granted then a precedent is set for potentially increasing "rights" far in excess of crop consumptive-use requirements. At a time of dwindling water supplies that type decision would be encouraging an unjustified mis-use of the precious resource we are on a collision course to protect, namely, groundwater.

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A side issue must at this time be injected. By application to IDWR a change in water use may be effected. Specifically, "irrigation" water could be converted to "domestic" use, thus, becoming more tightly bound to the project.

Western water laws have been guided by the principle of "first in time, first in right." I am suggesting that now is the time to abrogate the necessity of forming a future groundwater board to investigate charges of interference of an earlier right by the groundwater user with a later priority. If injury to the senior right was determined by the board then the junior water right user could be ordered to cease use. That would devastate the developed community of junior right users. The process of land and water use planning must be laid on a foundation stone of rational anticipation and avoidance of real-time future conflicts. As to the application for domestic water in the amount of 1.25 cfs I state no objection, though I have some concerns.

According to the "Baker" report used in the hearings of this particular issue it has been stated that"If the amount of land that is irrigated with surface water is reduced with time, then the amount available for recharge to the groundwater system is also reduced."(page 16). Furthermore, "recharge and discharge have remained relatively constant,"(page 16) implying a balanced groundwater situation may already exist. And, in paragraph five of the same page a discussion of declining water-table in the southwest of the study area exists, and the reasons why that is so.

In his discussion of the pump test Mr. Baker states "the reliability of predicting the long-term effects of pumping well 04N-01E-03CCC1 are extremely limited" and "it was not possible to extend the observed drawdown trends any further in time." (page 20).

In his conclusion, Mr. Baker states "the effects of further development of the ground-water system are uncertain and continued monitoring of water levels in the area is essential." He adds "well spacing appears to be a major factor in contributing to the declining well yields that have been experienced in this area."(page 26).

If these statements accurately reflect a long term trend then it can be said that an imbalance already exists in the inflow-outflow aquifer equation. Specifically, more outflow exists than inflow (recharge) provides when watertables decline. Need an analogy of our check books be made here ?

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Overdrafting the aquifer may still take place by providing domestic water to the proposed development. The range of values used in the "Feast" report could be used to confirm this possibility too, if biased toward the low side of transmissivity and recharge.

The uncertainties of the sub-surface environment challenge concrete quantification of water surface tables, storage and transient flows under dynamic conditions.

It must also be noted that the "Feast" report did not include a ground water recovery statement. The reason for this is that the recovery test was interupted by ground water movement or recharge from the nearby canal. That is a truly unfortunate event from which important data was lost to support a more complete conclusion about the efficacy of the aquifer. The data speaks for itself and is apparently judged as inconclusive by the professionals: to wit, Mr. Baker's and Mr. Feast's differing conclusions. They both had a difficult task for which they have my empathy.

Development can not, and must not, be stopped in the area. I live in this area by choice, and receive the benefits, thereof, including good ground water. I will not deny others the reasonable use of that same resource. Domestic water is especially dear and a necessity for us all. It is possible that domestic water supplies alone will maximize the transient storage of the aquifer as the area develops. When that occurs, as it has in California, for example, a crisis develops and hard decisions are put upon the citizenry.

I, therefore, appeal to the decision makers in IDWR to reject the application for irrigation water in the amount of 2 cfs. I have little doubt that the domestic water application will be approved. Yet, I still must voice a concern over that issue, too.

Respectfully,

Neil D. Wilton

c.c. Mr.Phillip M. Barber, Attorney

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FLOATING FEATHER HILLS, INC.

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Department of Water Resources
Western Regional Office

June 20, 1991

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Department of Water Resources

State of Idaho
Department of Water Resources
1301 North Orchard
Boise, Idaho 83706
Attn: Glen Saxton

RE: PERMIT NO. 63-11413

Dear Mr. Saxton:

Per your request, enclosed are the following 8 1/2 " x 11" plat maps:

1. Vicinity Map showing Floating Feather Hills, Inc. and Treasure Valley Village;

2. Plat for Floating Feather Hills;

3. Plat for Trail Creek Ranch, aka, Treasure Valley Village.

If you need anything else, please call me at 336-7390 so I can get the information to you by Friday's deadline.

Sincerely,

Dave Roylance by gm

Dave Roylance
Floating Feather Hills, Inc.

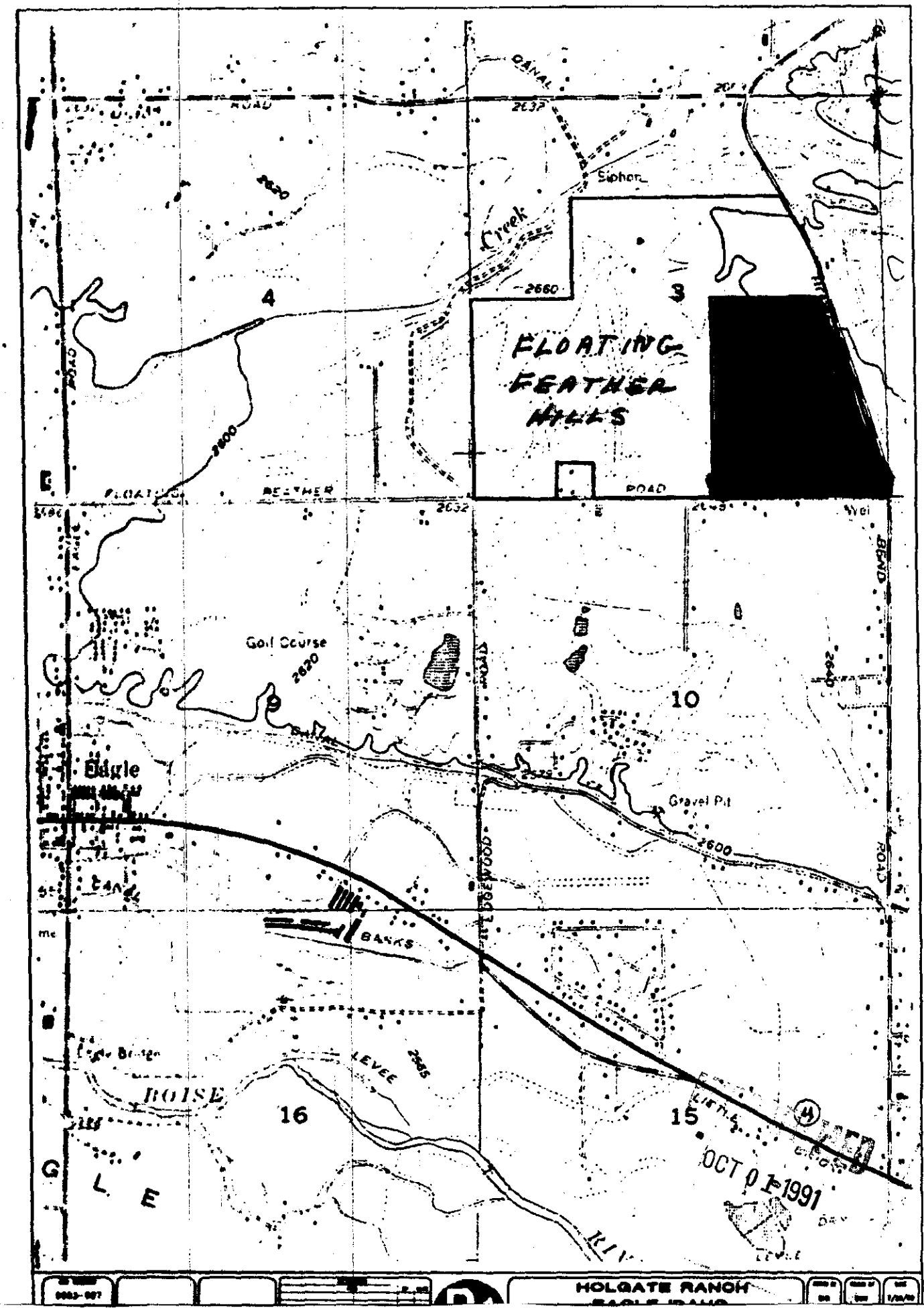
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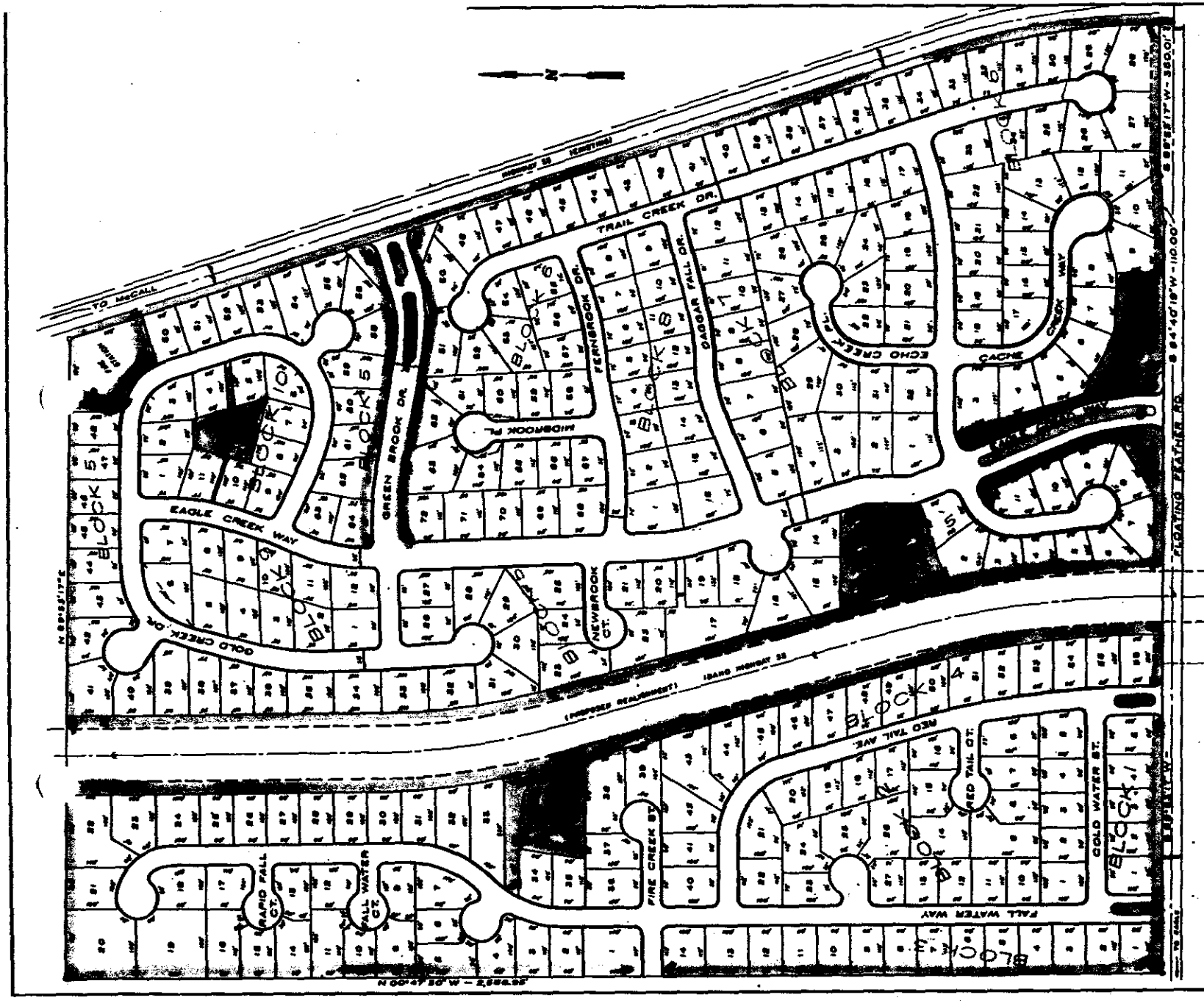
enclosures

CC: Floating Feather Hills/Owners
Dave Tuthill/Department of Water Resources
Bill Gurhke/Trail Creek Ranch

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2417 BANK DRIVE, SUITE 101 • BOISE, IDAHO 83705 • (208) 343-6500


CANAL
ROAD
2632
Siphon
Creek
2660
4
3
FLOATING
FEATHER
MILLS
ROAD
2600
FLOATING
FEATHER
2632
BEND
Golf Course
2620
10
Eagle
Gravel Pit
2600
ROAD
BANKS
LEVEE
2585
BOISE
16
15
OCT 01 1991
G
L
E
HOLGATE RANCH



LEGEND

- WATER LINE & FIRE HYDRANT
- 8" SEWER LINE, MANHOLE & DIRECTION OF FLOW
- SERVICE LINE
- CURB & SIDEWALK
- PROPERTY LINE

1991

NOTES:

1. GREENBELT AREAS ARE 50' WIDE UNLESS OTHERWISE MARKED.
2. GREENBELTS, PARKS & RECREATIONAL AREAS ARE SHADED.
3. PHASE ONE IS OUTLINED BY
4. TOTAL AREA ..... ACRES, SUBDIVISION
5. RESIDENTIAL DEVELOPMENT- SUBDIVISION LOTS & 1 FIRE STATION SITE.
   PHASE - LOTS
6. X PARK SITES & X LAKES.
7. OVERALL DENSITY PER ACRE MAY INCREASE IN FINAL FUTURE PHASES.
8. CORNER RADIUS 20'.
9. CULDESAC DIAMETER 100'.
10. ALL ROADS 50' WIDE UNLESS OTHERWISE DIMENSIONED.

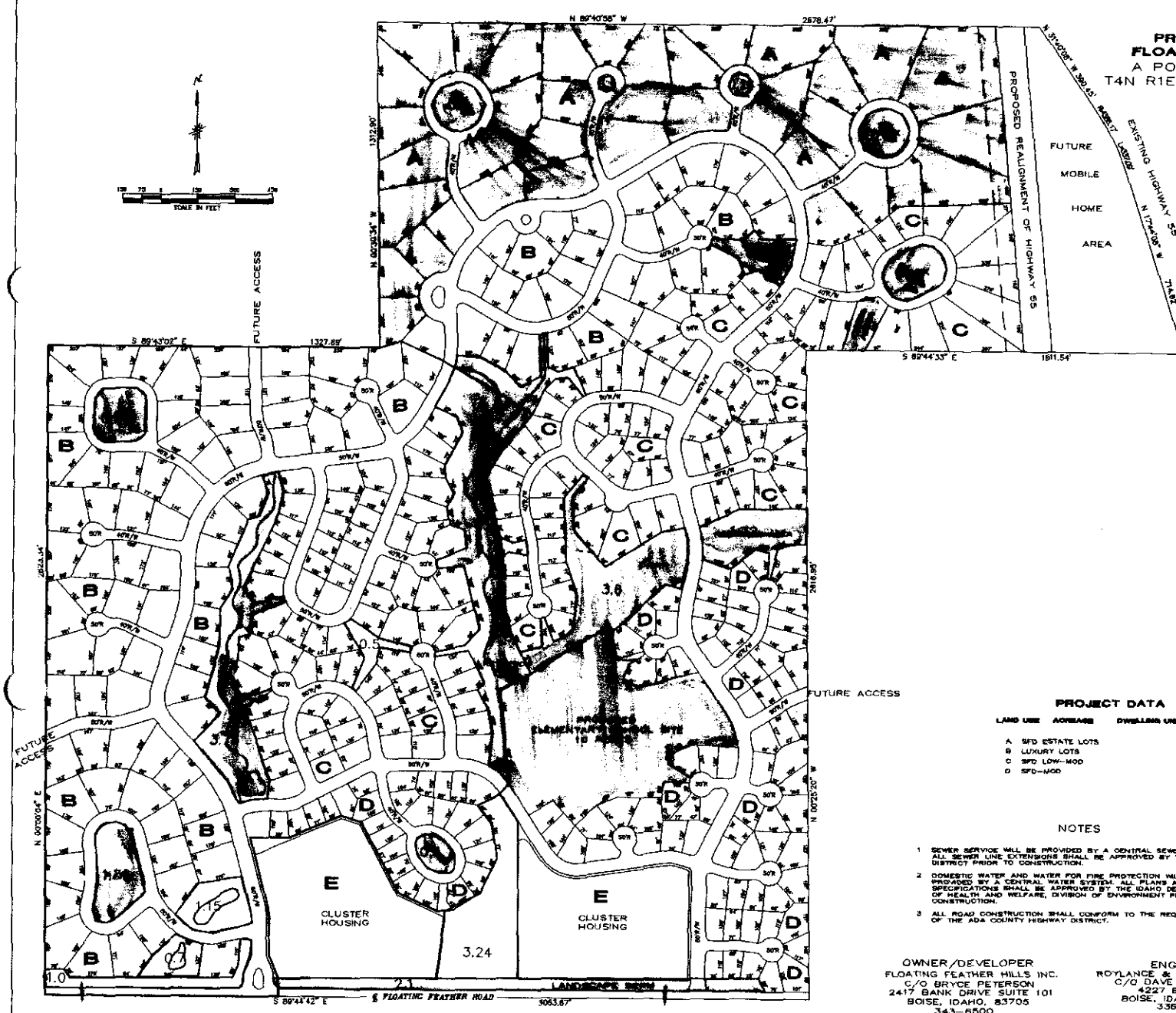
PRELIMINARY SUBDIVISON PLAT

TRAIL CREEK RANCH SUBDIVISION

IN EAGLE, ADA COUTY, IDAHO

Developer-TREASURE VALLEY VILLAGE
A Limited Partnership
2927 Sterview Drive Boise, Idaho 83702
Tel 345-8233

B & A Engineers, Inc.
619 Grove Street
Boise, Idaho 83702



PRELIMINARY PLAT
FLOATING FEATHER HILLS
A PORTION OF SECTION 3
T4N R1E BM ADA COUNTY IDAHO

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PROJECT DATA

LAND USE	ACREAGE	DWELLING UNITS	DENSITY
A SFD ESTATE LOTS			
B LUXURY LOTS			
C SFD LOW-MOD			
D SFD-MOD			

NOTES

1. SEWER SERVICE WILL BE PROVIDED BY A CENTRAL SEWER SYSTEM. ALL SEWER LINE EXTENSIONS SHALL BE APPROVED BY THE EAGLE SEWER DISTRICT PRIOR TO CONSTRUCTION.
2. DOMESTIC WATER AND WATER FOR FIRE PROTECTION WILL BE PROVIDED BY A CENTRAL WATER SYSTEM. ALL PLANS AND SPECIFICATIONS SHALL BE APPROVED BY THE IDAHO DEPARTMENT OF HEALTH AND WELFARE, DIVISION OF ENVIRONMENT PRIOR TO CONSTRUCTION.
3. ALL ROAD CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE ADA COUNTY HIGHWAY DISTRICT.

OWNER/DEVELOPER
FLOATING FEATHER HILLS INC.
C/O BRYCE PETERSON
2417 BANK DRIVE SUITE 101
BOISE, IDAHO, 83705
343-8500

ENGINEER
ROYLANCE & ASSOCIATES P.A.
C/O DAVE ROYLANCE
4227 EMERALD
BOISE, IDAHO 83706
336-7390

997PRE.DWG

PRELIMINARY PLAT
FLOATING FEATHER HILLS
ROYLANCE & ASSOCIATES P.A.
Engineers/Surveyors Landplanners
4227 Emerald Boise Idaho 83706 (208) 336-7390

JOB NUMBER 9003-997

Your File

[illegible] Hwy 55
Boise, Idaho, 83703
12 June 1991

Director
Water Resources Board
State of Idaho

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JUN 1[illegible] 1991
Department of Water Resources
Western Regional Office

Dear Sir:

This is to advise that my Wife and I, are deeply concerned with the recent decision of Floating Feather Hills, Inc. to drill a deep water well in this area. The recent proliferation of domestic wells is already causing concern for those of us who settled in this area primarily for agricultural Reasons and the proposed drilling of additional deep wells will no doubt affect the availability of the irrigation requirement of our acreages with special concern about our domestic wells. We respectfully request that our concerns temper your difficult decisions with sound judgement with particular emphasis on our potential problems.

Thank you for your favorable consideration

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Respectfully,

William M. Gornik
Dorothy M. Gornik

William M. & Dorothy M. Gornik

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705 - (208) 334-2190

CECIL D. ANDRUS
GOVERNOR
R. KEITH HIGGINSON
DIRECTOR

June 13, 1991

E.F. Stark
133 Rooster Drive
Eagle, ID 83616

Re: Floating Feather Pump Test and Aquifer Analysis

Dear Mr. Stark:

Enclosed is a copy of the Results of the 30-Day Pumping Test and Aquifer Analysis. We will be accepting comments on this report until June 28, 1991.

Sincerely,

Sue Taylor

Sue Taylor
Secretary, Office Coordinator

Encl.

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Notes for Hearing
Floating Feather, Inc.

Notes by D. Tuthill

Applicant represented by Phil Barber, Atty.

Protestants represented as shown on roster.

Protestants object to all 6 issues

Carol Jensen	3065 E Floating Feather
Dan Schill	4950 Prarie Rd.
F. L. Persons	11133 Horshoe Bend Rd.
Lynn Maxwell	10895 Hwy 55
Billie Day	11034 Culdesac Way
Lou Siron	10374 Prarie Rd
~~Eleanor~~ Eleanor Chase	70 W. FF Rd
Helen Pardue	P.O. Box 699 Eagle Id
Bill Pardue	"

→ Record left open for comment on CH2M Hill Report

Phil Barber

1. FFHI agrees to provide a monitoring well (mutually agreeable).
2. Property has ≈ 259 inches of Farmers Union Canal Co water
   a. Agrees not to sell or transfer surface rts of property
   b. Will develop pressurized irrigation system for ~~all~~ economically feasibly irrigated areas
      1. Common areas
      2. Lots where economically feasible (generally ≥ ½ acre)

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Phil Barbon (cont)

3. Concedes to reduction in total rate of flow from 5.25 to 3.25 cfs.
4. The amount of water for the property will be investigated and made available to IDWR.

Dave Roylance

- 30 acres in parks + 10 acres (School site)
- A lots - 1 acre
- B lots - ½ acre

Total Acreage in A + B + Park + school =
" " in smaller lots =

The system has interties/capabilities with an overall Eagle water system.
- Is a corporate investor (there are 5 investors in FFHI)
- Corporation has financial assets for completion of the project.
- Meter on every house

Bill Gehrke - General Partner in Treasure Valley Village

- Has resources with which to pursue project
- Has 50" of water on this land - to be used for common ground, berms, park areas (Part of 259")
- Total of 9 acres of berms & parks

Sherl Chapman

- Ran Step-drawdown test on March 14th.
  750gpm ≈ 150' depth

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Chuck Feast - Sr. Hydrogeologist, CH2MHill

- There is significant vertical movement throughout the aquifer in response to pumping.
T from high to low, for an average of about 100,000 gpd/ft
S from 8×10^{-5} to 5×10^{-2}, most about .02
behaves like leaky water table system

Simulations

1. Health of aquifer - no long-term declines noted.
2. Capability to supply amts requested: yes, aquifer is capable
3. Model based on Theis Eqn
   T_{used} = 100,000 & T = 174,000 / S = .02
4. Aquifer recharge is an unknown. Sources are irr Canal, applied irr water, small storage ponds, lateral inflow, septic tank, precip.
5. 300 gpm winter / 1100 gpm summer. Amt used for projections = 1000 gpm
6. Worst case - 7' @ 1 mile @ 30 years distance

Conclusions -

See report

Eichhorn well, and perhaps some others, ~~not~~ might require deepening.

Carlyle Briggs

Holgate Farm - a certain amount "transferred" to Treasure Valley Village

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William Pardue
- Data is accurate

Bryce Peterson 2417 Bank Dr. Principal
- Lots smaller than ½ acre are not economical to irrigate through a separate system

Protestants

Eleanor Chase
- Has 280' deep well for dairy operation
- Domestic well had to be re-drilled in 1982
- Concerned about contamination

Dan Schill 9950 Prairie Rd
- Fishery Research biologist
- Include Order No. 3 of TVV permit in this water right

Lou Sirois 10314 Prairie Rd
- Concerned about accuracy of data

Helen Pardue
- Conservation of water within State of Id

Dennis Sutherland
- Objects to references to a "fault" between Sage Acres wells.

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Evening Session

Carol Jensen 3065 E. Floating Feather Rd.
Protest Purposes # 1,2,5,6
Many wells are being added
7/5acre tracts from irr = 35 acres irrigated

Neil Wilton
Water coming into area is unknown.
Suggests that irr water not be granted
Water lost contingency should be placed in the plan
7.4 gpm/acre
.3 in/day is peak requirement

Carry Koomler
Main Concern is recharge
- Requests IDWR to review financial info
- Requests plan to legally protect well owners

Hugh Massie Sage acres Law - No water today
- Suggests long-term liability Clause.

Robert DeShazo
- Will submit a copy of the report on his well to applicant & to IDWR

* - Comments by Fri 28th to Applicant
* - Comments to IDWR by 8 July
- Copies of exhibits 2,3,4 to IDWR

→ Phil Barber objects to inclusion of Cond #3 from TVR (paragraphs 2 & 3)

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List of Exhibits

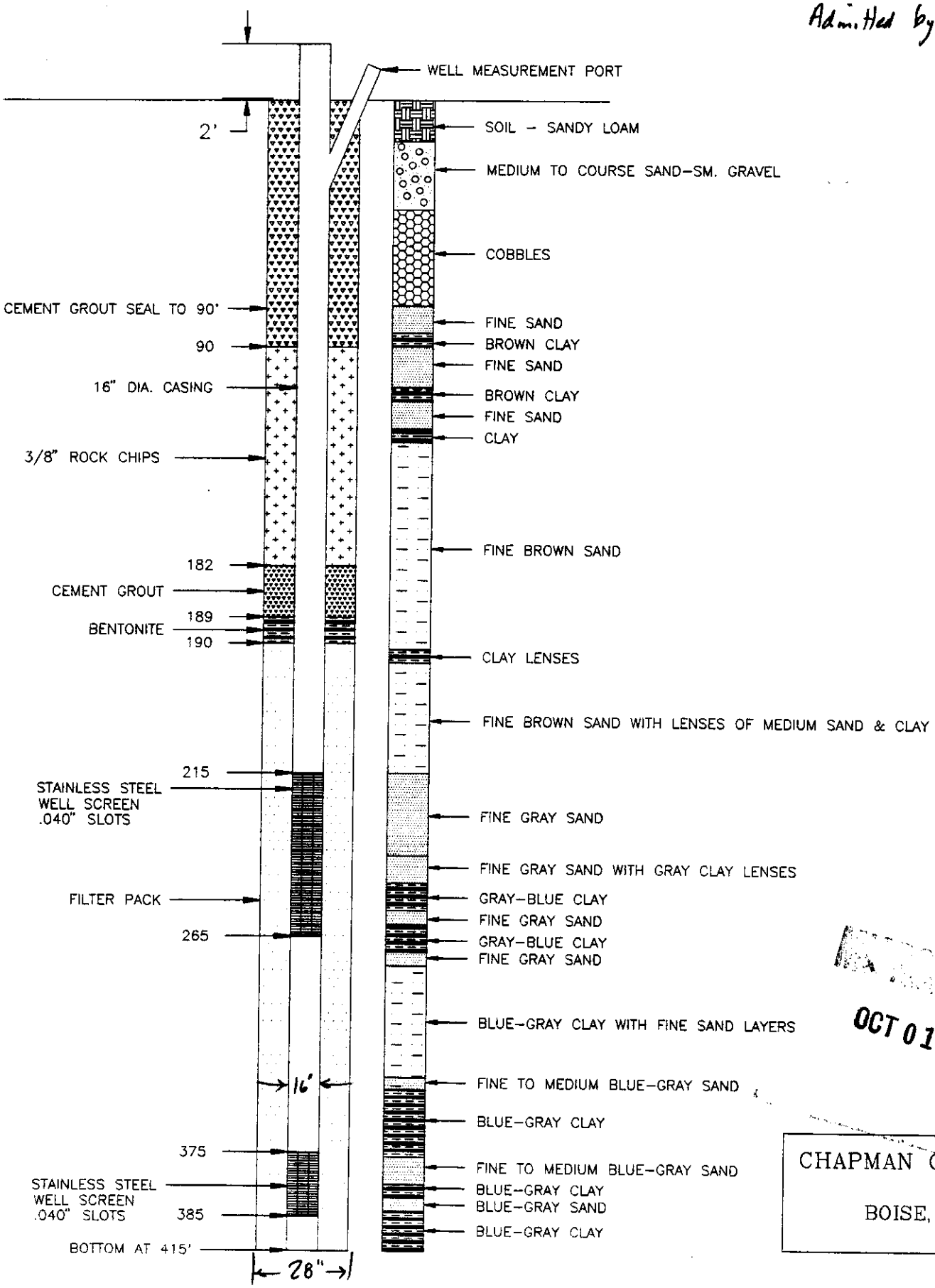
Applicant's Exhibits	Description	Admitted?	
No. 1	CH2M Hill Report	yes	
2	Vicinity Map	yes	Reduced size versions to be submitted
3	Floating Feather Hills Prelim Plat	yes	
4	Trail Creek Ranch Prelim Plat	yes	
5	Well Const. Details	yes	

Protestant's Exhibits		
No. 1	Map of Vicinity (To be returned to Ms. Pardee)	yes
No. 2	Old Map of Trail Cr Project	yes
No. 3	Memo of Agreement - Water Cost Sharing	yes
No. 4	Computation of Water Requirements	yes
No. 5	IDWR Report re: Well (To be provided to IDWR & Mr. Barker)	yes

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FLOATING FEATHER HILLS, INC.
WELL CONSTRUCTION DETAILS

Applicant's Exhibit No. 5
Admitted by LGS 6/12/91

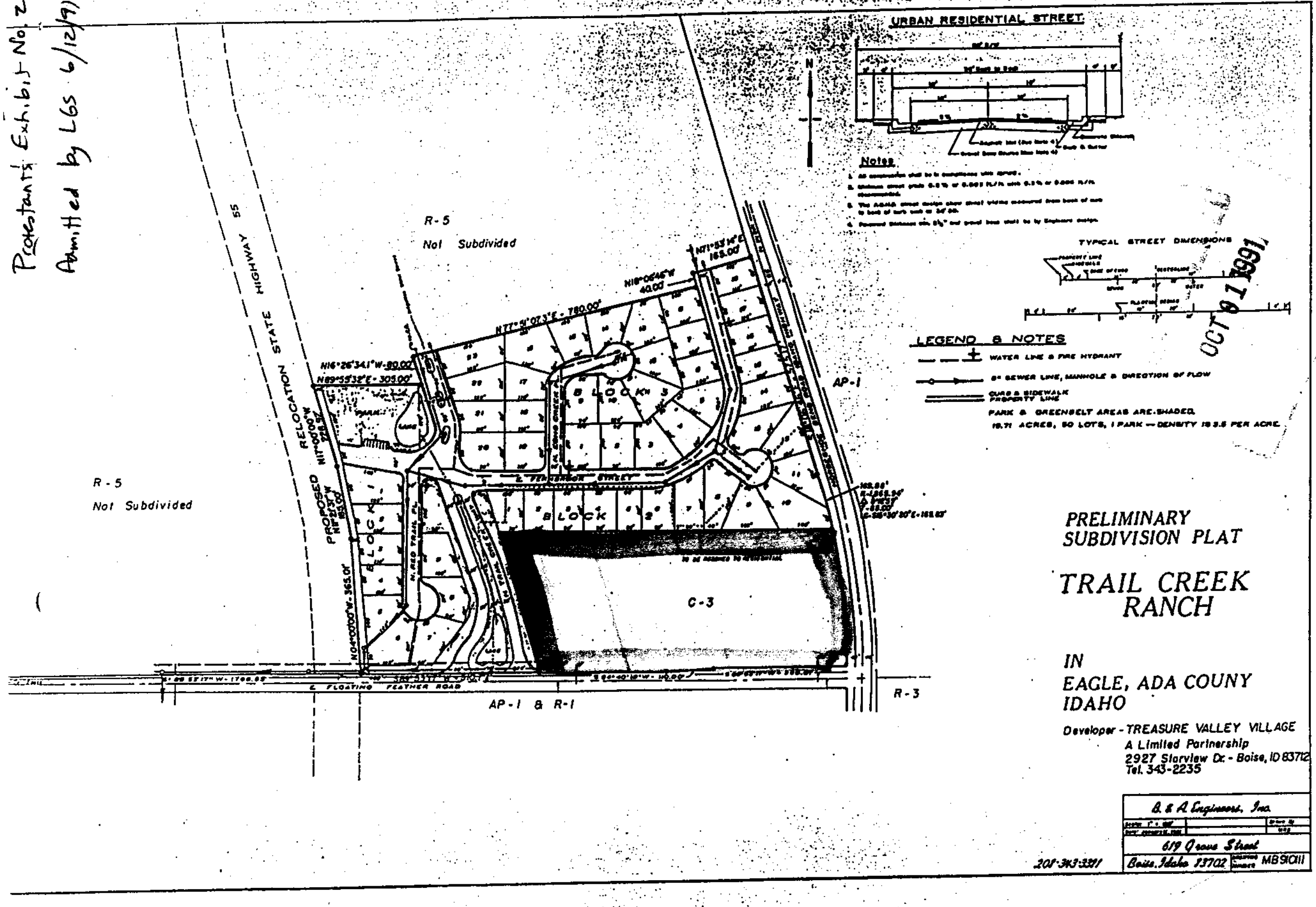


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CHAPMAN CONSULTING
BOISE, IDAHO

* FEB. 4, P&Z Meeting Eagle 7:30 P.M.

Protestants' Exhibit No. 2
Admitted by LGS 6/12/91



Rnd

Protestant's Exhibit No. 3
Admitted by LGS 6/12/91

MEMORANDUM OF AGREEMENT
CONCERNING WATER SUPPLY COST SHARING

THIS MEMORANDUM OF AGREEMENT dated this 25 day of February, 1991, by and between FLOATING FEATHER HILLS, INC., an Idaho corporation, whose address is 2417 Bank Drive, Suite 101, Boise, Idaho 83706 ("Floating Feather"), TREASURE VALLEY VILLAGE, a California limited partnership, whose address is 2927 STAR VIEW DR. BOISE, ID. 83712 ("Treasure Valley"), and EAGLE MEADOWS PARTNERSHIP, an Idaho General Partnership, whose address is 2417 BANK DR. #101 BOISE 83705 ("Eagle Meadows");

WITNESSETH:

WHEREAS, Floating Feather has obtained preliminary approvals for its Floating Feather Hills subdivision from the City of Eagle and has made application (the "Application") for water rights permit to provide initial water supply to that subdivision by means of a well to be located on its property (the "Well"); and

WHEREAS, Floating Feather's application process will require that it proceed to develop the Well and do certain hydrologic testing and analysis in order to establish the available flow of water which it may develop from that Well without undue interference with groundwater for other water users in its vicinity (which shall be determined by the Idaho Department of Water Resources), and

OCT 01 1991

WHEREAS, Eagle Meadows owns certain property generally described as located in SW¼ of SW¼ Sec. 3 T4N R1E (legal description by quarter-quarter section) which it intends to develop as a subdivision within the City of Eagle; and

WHEREAS, Treasure Valley has presently pending for approval its Trail Creek Ranch Subdivision No. 1 and will have prepared and presented to the City of Eagle its Trail Creek Ranch Subdivision No. 2 generally located in the East one-half of Section 3, T4N, R1E, Boise Meridian, in the immediate future; and

WHEREAS, the parties to this agreement desire to cooperate to develop an adequate water supply for the provision of water to their several subdivision properties so as to maximize the efficiencies and provide for a fair and reasonable sharing of costs in the development of that water supply;

NOW, THEREFORE, in consideration of the foregoing and the covenants contained herein, the parties agree as follows:

1. The parties will initially share in the costs of the Well on a ratio of 5:3:2 with 50% being borne by Floating Feather, 30% being borne by Treasure Valley, and 20% being borne by Eagle Meadows. Those costs shall include the total costs of creating, filing and proceeding with the Application with the Idaho Department of Water Resources and of drilling, constructing and completing the Well, including but not limited to the costs of drilling, casing, development, testing and hydrologic analysis of the water produced from the Well. Those costs are anticipated to be no more than $70,000 as they are itemized on Exhibit A to this

OCT 1991

Agreement which is attached hereto and made a part hereof. In the event that such costs should be determined to be likely to exceed that sum, the parties agree to meet and confer concerning the further incurring of costs beyond that sum and any party may, at that time, choose not to contribute further at that time, in which case paragraph 7 shall apply..

2. Subject only to the cost limitations contained in paragraph 1 of this Agreement, the Well will be developed completely and fully as may be necessary to provide the full and complete testing which may be required to obtain approval by the Idaho Department of Water Resources of the Application.

3. After completion of the Well and the testing and approval process, it is anticipated that Eagle Meadows will curtail any further contributions to the development of the water system, as they are in the very early stages of development. Eagle Meadows will retain rights to 20% of the production of the Well and will be required to make a fair and equitable contribution to the water system entity at the time they do attach to the system.

The remaining parties, Floating Feather and Treasure Valley, agree to proceed with the development of the water system within the following guidelines:

a. Costs which benefit only one party (i.e. interior water lines for delivery to individual lots) shall be borne by that party.

b. Costs which benefit more than one party (wells, pumps, tanks, main distribution lines, etc.) shall be classified

as common costs and shared on a fair and equitable basis. For example, the main distribution line from the well site through the Floating Feather property shall be shared until it reaches the property's eastern boundary. The cost of extending it further east shall be borne entirely by Treasure Valley.

c. Common costs shall be shared by means of an agreed upon ratio determined by the relative number of lots each has in its respective projects (the "Ratio"). Floating Feather and Treasure Valley are planning approximately 500 and 300 residential building lots, respectively. Therefore, an initial cost-sharing Ratio of 5:3 (with 5 being attributed to Floating Feather, and 3 being attributed to Treasure Valley) which shall be the initial Ratio to be used by the parties while their projects are under development. The parties agree to adjust the Ratio at a subsequent date at which the actual number of lots in each development has been finally determined. Each party agrees to pay its prorata share of the common costs, based upon the Ratio, except that each party hereby agrees that its costs will change no more than 15% from those costs first arrived at by use of the 5:3 initial Ratio.

Each of the parties shall have the right to approve the budget, design and phasing of the water system, including the location of additional wells, water tanks, etc., if such are determined to be necessary. Prior to any expenditure in excess of $5,000, each party shall have the right to agree whether to continue in the cooperative sharing of costs and development.

OCT 01 1991

4. Treasure Valley has obtained easement rights for a water transportation pipeline from a site for which they have obtained preliminary authorization to drill a well for the provision of water to their subdivision. In the event the parties deem it necessary to develop a well on this site, Treasure Valley shall make available its site and easements for the development of the Well and the transportation of water obtained therefrom, subject only to the parties' having reached the aforementioned cost-sharing agreement.

5. The parties shall meet and confer concerning the specific legal means and/or entity required to be created to minimize their costs and to provide for the efficient distribution of water to their several projects. The costs incurred in the organization or creation of such legal means or entity are contemplated to be costs shared among the parties, as determined above. It is the parties purpose to create a legal system or entity which will not subject the parties or any of them to regulation by the Idaho Public Utilities Commission. They are presently considering a not-for-profit association, homeowners associations' mutual covenants, and other potential proposals. The parties' relative ownership percentages of the water entity shall be in the same ratio as each party's proportionate share of total water system expenditures made by it. For example, if Treasure Valley paid 40% of the total costs of the water system, whether they are costs benefitting one or more party, or common costs to the extent they were incurred in the planning, development or

construction of the supply or system transferred to the water entity, Treasure Valley would have a 40% interest in the water entity.

Nothing in the charter of the entity shall disallow its ultimate transfer to another entity, such as a municipality, as long as such transfer is made in a fair and equitable manner.

6. In the event other developers choose to attach water transportation systems for their properties to the system to be developed as contemplated by to this Agreement, cost contributions from such developers shall first be applied to reduce costs to the parties for the design, construction and other development expenses related to such system, and then in the event there are any moneys left over from such costs contributions from other developers, they will be distributed pro rata according to the contributions of each of the parties.

7. In the event any party elects not to proceed at any time with further cost sharing and cooperative contributions for the development of the water system for their several properties, they shall immediately notify the other parties of that decision in writing. Any party electing not so to proceed may, within one year from the provision of that notice, choose to again join with the other parties in the cooperative development of a water system so long as they immediately pay their pro rata share of all costs incurred by the other party or parties and to which they have not contributed.

8. Nothing in this agreement shall be deemed to have established a partnership between or among the parties hereto.

9. Nothing in this agreement shall be deemed to have created a third party beneficiary contract or contract enforceable or for the benefit of any party not a signatory to this Agreement.

10. This Agreement shall bind the parties' successors, beneficiaries and assigns.

11. In the event that an action is brought arising out of any dispute which may arise among or between any of the parties, any prevailing party in such action shall be entitled to collect from the nonprevailing party or parties his attorney's fees and costs, including any attorney's fees or costs on appeal incurred by him in such action.

IN WITNESS WHEREOF, the undersigned, warranting that they have full power and authority to do so, have executed the foregoing as of the date first written above.

FLOATING FEATHER HILLS, INC.

By Dyo J Peterson
Its President

TREASURE VALLEY VILLAGE

By Wilbur R. Welch
A General Partner

EAGLE MEADOWS PARTNERSHIP,
an Idaho General Partnership

By_____
A Partner

Protestant's Exhibit No. 4 Admitted by LGS 6/12/91

ID-ENG-40
Rev. 4
7/83

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
SPRINKLER SYSTEM DESIGN DATA

NAME _____ DATE _____ PREPARED BY NEIL D. WILTON

SCD ADA COUNTY ADA ENGN. JOB CLASS _____

I. INVENTORY

Total Acres _____ Crop Acres _____ Climatic Area I
Water Source _____ Amt. Available _____ Seasonal Variation _____
Energy Source _____ _____ _____
(Electric) (Int. Comb - Fuel) (Gravity)

II. SOILS DATA

USDA Soils Class Majority	Total Available WHC (in/ft.)					Depth To		Maximum Intake Rate in/hr.
	0-1	1-2	2-3	3-4	4-5	Inhibiting Layer (ft)	Water Table	
Silt loam	2.2	2.2	2.2	–	–	Pans-3	–	0.3

III. DETERMINATION OF WEIGHTED CONSUMPTIVE USE (CU)

Crop	Acres (A)	June		July		August		ANN.
		CU	AxCU	CU	AxCU	CU	AxCU	
Alfalfa Grass	1	6.21		8.19		6.53		34.18
Pasture	1	5.06		6.78		5.60		29.42
Weighted Consumptive Use				7.48"				31.80" (2.65 Ac-Ft)

IV. WATER MANAGEMENT INFORMATION

Crop	Root Zone Depth (ft)	Total WHC (Inches)	Stress Point (%TWHC)	Max. Net Replacement (Inches)	Peak Daily C.U.	Max. Freq. @ Peak C.U. @ Max. Net.
Alf. Grass	3	6.60	50	3.30	0.30	11.0
Pasture	3	6.60	50	3.30	0.24	13.75

V. DESIGN DATA - (LAWN SPRINKLERS)
Based on weighted consumptive use, 75% Eff., 5 MPH winds, .6 Wind Factor

	Application		Peak Daily C.U. * (Weighted)	Frequency (F)(Days)	System Requirements	
	Net (D)	Gross			(Total gpm)(Q)	gpm/ac
Maximum	3.3	4.4	0.27	12.25	6.78	6.78
	2.5	3.3	0.28	8.9	7.07	7.07
	1.5	2.0	0.29	5.1	7.40	7.40

$Q = \frac{453\ A\ D}{F\ H\ Eff.}$ = system capacity

H = Total operating hours/day
Use 23 hours

* Use controlling weighted monthly consumptive use and determine peak daily consumptive use from Table XIV in Idaho Irrigation Guide

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Table ID683-3.--Daily Peak Consumptive Use Rate (u_p) as Related to Estimated Actual Monthly Use

Net Irrigation Application I (inches)	Monthly Peak Consumptive Use Rate (u_m) in inches															
	Daily Peak Consumptive Use Rate (u_p) in Inches Per Day															
1.0	.07	.09	.11	.13	.15	.18	.20	.22	.24	.26	.28	.31	.33	.35	.37	.40
1.5	.07	.09	.11	.13	.15	.17	.19	.21	.23	.25	.27	.29	.32	.34	.36	.38
2.0	.07	.09	.11	.13	.15	.16	.18	.20	.23	.25	.27	.29	.31	.33	.35	.37
2.5	.07	.09	.10	.12	.14	.16	.18	.20	.22	.24	.26	.28	.30	.32	.34	.36
3.0	.07	.08	.10	.12	.14	.16	.18	.20	.22	.24	.26	.28	.30	.32	.34	.36
3.5	.06	.08	.10	.12	.14	.16	.18	.19	.21	.23	.25	.27	.29	.31	.33	.35
4.0	.06	.08	.10	.12	.14	.15	.17	.19	.21	.23	.25	.27	.29	.31	.33	.35
4.5	.06	.08	.10	.12	.14	.15	.17	.19	.21	.23	.25	.27	.29	.31	.33	.35
5.0	.06	.08	.10	.12	.13	.15	.17	.19	.21	.23	.25	.26	.28	.30	.32	.34
5.5	.06	.08	.10	.11	.13	.15	.17	.19	.21	.22	.24	.26	.28	.30	.32	.34
6.0	.06	.08	.10	.11	.13	.15	.17	.19	.20	.22	.24	.26	.28	.30	.32	.34

[1] Based on the formula $u_p = 0.034\ u_m^{1.09}\ I^{-.09}$

u_p = Daily peak consumptive use rate in inches per day.

u_m = Monthly peak consumptive use rate in inches per month.

I = Net irrigation application in inches.

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OCT 01 1991

IDAHO DEPARMENT OF WATER RESOURCES
2735 Airport Way, Boise, ID 83705

Re: Hearing for Floating Feather Hills, Inc. and Treasure Valley Village

Place: J.R. Williams Bldg. (Hall of Mirrors) 700 W. State, Boise, ID 83702

Date: Wednesday, June 12, 1991

Conducted By: Glen Saxton

ROSTER OF ATTENDANCE

NAME	ADDRESS	REPRESENTING	DO YOU WANT TO TESITFY? YES	NO	
Louis Sibon	10374 Prairie Rd	SELF	X		statement only fully part
Bill Pardew	2385 E. Eagle Floating Fthr.				
Helen Pardew	P.O. Box 699, EAGLE	SELF	X		
Phil Barber	877 Main St Boise	Applicant			-Atty
Sandy Strain	11029 Runway Boise 83703	self		X	
Lynn Maxwell	10895 Hwy 55 Boise	SELF	X		
Mr. & Mrs C. B Wilder					
Steve Lester		IDWR		x	
Sue Taylor		IDWR		+	
F. L. Persons		Self	X		
Of Sutherland	11036 Runway Boise	Self	V		Statement only
DENNIS WHITMORE - 4835 LAKE PARK DR. -		FFHI		X	
Harvey Neef	2629 Hillway	FFHI		X	
Eleanor Chase	70 W. Floating Feather Rd. Eagle	Self	X		
Mary Hegmann	300 Appaloosa Dr	SELF		X	
Carlyle W. Briggs, P.E.		self	X		statement only
Billie L Day	11034 Culdesac Way	Self	X		
Had to leave Alice J Jones	11054 Culdesac	Self	X		Statement only
Dave Roylance		FFH	X		
Chuck Feast	9130 Tanner Lane P.O. Box 8 Boise 83709	CHUMMILL for APPLICANT	X		
DUANE STUECKLE	8370 Boise 200 Parkcenter Dr	FFHI		X	
Sherl L. Chapman		FFI			
			X		
Erv Ballou					Statement Only

FILED
OCT 0 I 1991

IDAHO DEPARMENT OF WATER RESOURCES
2735 Airport Way, Boise, ID 83705

Re: Hearing for Floating Feather Hills, Inc. and Treasure Valley Village

Place: J.R. Williams Bldg. (Hall of Mirrors) 700 W. State, Boise, ID 83702

Date: Wednesday, June 12, 1991

Conducted By: Glen Saxton

ROSTER OF ATTENDANCE

NAME	ADDRESS	REPRESENTING	DO YOU WANT TO TESITFY? YES	NO
Cathie Renfro				
✓ Carol Jensen			✓	
Jeff R. Wilson	632 N. Edgewood	self	✓	
Logan Wilson	"			
✓ Larry Sam Koomler	2301 Sadie	Eumus Water Self	✓	
Hugh Massie	10,000 Prairie Rd.		✓	
Otto L. Johnson	10030 Prairie Rd.			
Dave Roylance		FFH	✓	
Robert DeShazo		Eagle Water	✓	

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My name is Alice Jones residing at 11152 Calleran Way.

The residents of the Sage Acres Sub Division all have the same concern about the water supplies they now enjoy should such a large development be approved. To date no positive assurances have been presented to assure us these water supplies will not be diminished by this development. There has been a geological survey started but not completed by Boise State University; this is not an assurance it only increases the concern. I do protest to this development until there are assurances of a positive nature to alleviate

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these concerns.

I am here to represent myself & my husband

Wendell Jones

2:30pm 6-12-91

After listening to approximately 4 hours of testimony by the applicant, I have concluded our area is beyond the direct influence of this development. Whatever our concerns, they will not be attributed to any activity by the applicant. We have a senior water right on which we solely have to rely should any negative results occur after the

JUN 17 1991

completion, should this
occur, of the develop-
ments contemplated.

y

OCT 01 1937

Can this be considered as a protest? I have to leave & hopefully my presence for the past 4 hours will be considered.

Gene Jones

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OCT 01 1991

To: Mr. Glen Saxton, IDWR Hearing Officer
From: Erwin Ballou, Pres. Evan Water Association
133 Rene Pl - Eagle, Ida 83616
Sub: Floating Feather Water Wells
Protest Statement for The Record

We have reviewed the information and evidence present concerning ground water supply availability and have determined the amended quanity being proposed will not affect the existing rights and uses of the Evan Water Association. We strongly support the required uses of existing surface water available from the Farmer Union rather than 100% dependancy from groundwater.

The Evans Water Association also supports the construction and use of monitoring wells in the Eagle area. We believe the continued development (as being proposed) may create water supply problems and request IDWR continue to research water supply in this area. To further this and EWC would make available a well site, at no costs to the IDWR and/or development interests for this purpose. Note: The applicant has proposed to drill south.

In keeping with our statement we wish to withdraw our protest against proposed ground-water development under 63-

Erwin Ballou, Pres.
Evans Water Assn

OCT 01 1991

BEFORE THE DEPARTMENT OF WATER RESOURCES

OF THE

STATE OF IDAHO

IN THE MATTER OF APPLICATION FOR PERMIT NO. 63-11413 IN THE NAME OF FLOATING FEATHER HILLS, INC., AND TREASURE VALLEY VILLAGE	NOTICE OF HEARING

On October 23, 1990, Floating Feather Hills, Inc., filed with the Department of Water Resources an application for permit to appropriate the public waters of the State of Idaho. The application was protested by the parties on the attached list, and a meeting was held by the Department on January 24, 1991.

On March 13, 1991, Treasure Valley Village was assigned to be an additional applicant, and the proposed use was expanded.

A test well was drilled by the applicants, the well was pumped for 30 days during a supervised aquifer test, and the test pumping was concluded on April 25, 1991. The recovery of associated wells has been monitored, and the consultants for the applicants are preparing a report regarding the results of the test. In addition, the Department is preparing a report regarding ground water in the vicinity of the proposed diversions. Both reports are anticipated to be made available in late May or early June. Any party interested in receiving copies of these reports is invited to contact this office.

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OCT 01 1991

sent 6-6-91 AT

EM² Inc.

Engineering, Management & Maintenance

10487 Overland Road, #116
Boise, Idaho 83709
(208) 376-4145

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NOV 15 1996
Department of Water Resources

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SEP 11 1996
WATER REBOURCES
WESTERN REGION

August 8, 1996

Mr. Steve Lester
Idaho Department of Water Resources
Western Region
2735 Airport Way
Boise, Idaho 83705-5082

Re: Permit No. 63-11413 for the City of Eagle

Dear Mr. Lester:

The following information pertains to the period from 1/1/96 to 6/26/96:

Total for Well No. 1 - 29,970,000 gallons ≈ 92 af 11/8/96
Total for Well No. 2 - -0- gallons

This should provide you with the information you require. Should you need further assistance at this time, please call.

Very truly yours,

UNITED WATER

Robert W. Lawrence
Assistant Production Superintendent

Place all future correspondence in file 4 as of 9/12/96

✓ ORIG → S.O.
✓ CC → Western 11/14/96

MICROFILMED
JAN 04 1999

Store K
File K

EM²
General Waterworks Corporation

January 10, 1996

Mr. David R. Tuthill Jr., P.E.
Idaho Dept. of Water Resources, Western Region
2735 Airport Way
Boise, Idaho 83705-5082

Re: Permit No. 63-11413 for the City of Eagle

Dear Mr. Tuthill:

The following information pertains to production for the period from 6-30-95 to 12-30-95. I am also recapping previous report periods.

Date	Total for Well No. 1 Gallons	Total for Well No. 2 Gallons	ACRE FT.
05-02-92 to 12-06-92	17,860,000	0	54.8
12-06-92 to 06-29-93	22,310,000	0	68.5
06-29-93 to 12-28-93	25,740,000	1,950,000	85.0
12-28-93 to 06-24-94	46,260,000	11,530,000	177.4
06-24-94 to 01-03-95	30,500,000	30,000	93.7
01-03-95 to 06-30-95	35,790,000	10,000	109.9
06-30-95 to 12-30-95	43,080,000	880,000	134.9
	221,540,000	14,400,000	≈ 724

This should provide you with the information you require. Should you need further assistance at this time, please call.

Very truly yours,

EM2
Katherine Shiflet

Katherine Shiflet
Vice President

c: Bob Lawrence

orig → S.O.
cc → Western

11/14/96 -SC

MICROFILMED
JAN 04 1999

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JAN 12 1996
WATER RESOURCES
WESTERN REGION

ANALYSIS SHEET FOR EXTENSION OF TIME

Permit No. 63-11413 Reviewed by [signature] Date 10-17-95

BASIC INFORMATION

9-20-95 Date stamp received

no Extension received timely

yes Fee received and receipted

yes Name and signature same as permit

_____ Address Change

BASIS FOR EXTENSION REQUEST

yes Has adequate work been completed to demonstrate due diligence?

_____ Has the permit been involved in litigation?
Is supporting documentation needed to complete the file?_____ Requested?_____

_____ Is delay by a government agency?
Is supporting documentation needed to complete the file?_____ Requested?_____

_____ Is the project more than 25,000 acre feet for irrigation or 10,000 acre feet for a reservoir?

ACTION TAKEN Recommend extend until Sept 1, 2000 on basis of due diligence. Reinstate + advance priority to april 2, 1991.

PRIORITY CALCULATION

Date extension received	9-20-95	= _____
Proof due date	9-1-95	= _____
Number of days late	_____	= 19
Priority date	3-14-91	= 73
New Priority Date	4-2-91	= 92

DATA ENTRY

New Address X

Change Proof Due Date 9-1-2000

Change Priority Date 4-2-91

WARNING

CANCELLED OR LAPSED

This permit has been officially CANCELLED or LAPSED.

Ninety days following the date of official action this file will be DESTROYED.

State of Idaho
DEPARTMENT OF WATER RESOURCES
1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000
Phone: (208) 327-7900 FAX: (208) 327-7866

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

September 11, 1995

City of Eagle
P.O. Box 477
Eagle, ID 83616-0477

RE: Permit No. 63-11413

Dear Permit Holder:

LAPSE NOTICE

You are hereby notified that under the provisions of Section 42-218a of the Idaho Code, the above referenced permit has lapsed. The department provided the proper forms to you in our proof due notice dated June 30, 1995. No further construction or additional development is authorized under this permit unless it is reinstated.

The permit can only be reinstated if you submit an **acceptable** Proof of Beneficial Use or an acceptable Request for Extension of Time showing reasonable cause for the delay. Either the completed Proof of Beneficial Use Submittal including the examination fee, or a completed field examination report; or the extension request form together with the $50.00 fee, must be received by this department within sixty **(60) days** of the date of mailing of this lapse notice or the permit will no longer be of any force or effect.

A proof of beneficial use form and a request for extension of time form are again enclosed for your use. Please note that only one extension of time can be granted, unless the project has not been completed because of lack of a necessary approval by a governmental agency or by litigation which brings title to the water in question.

L. Glen Saxton

L. GLEN SAXTON, Chief
Water Allocation Bureau

Enclosures

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NOV 0 8 1995

CERTIFICATION OF MAILING
I hereby certify that on 9-11-95
a copy/an original of this document was deposited in the United States mail, postage prepaid addressed to the individual(s) named above.

~ Celebrating Our Centennial Year of Service to Idaho 1895-1995 ~

State of Idaho
DEPARTMENT OF WATER RESOURCES
1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000
Phone: (208) 327-7900 FAX: (208) 327-7866

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

September 11, 1995

Treasure Valley Village &
Floating Feather Hills Inc.
4619 Emerald, Suite D2
Boise, ID 83706

RE: Permit No. 63-11413

Dear Permit Holder:

I am returning the Request for Extension of Time submitted in connection with the above referenced water right permit. In September of 1992 this permit was assigned to the City of Eagle. The department cannot accept an extension request unless it is filed by the permit holder (City of Eagle).

I have initiated the process to refund the $50.00 filing fee. You should receive a refund in seven (7) to ten (10) days.

If you have any questions or if I can be of any assistance, please feel free to contact me.

Sincerely,

Julie L. Yarbrough

JULIE L. YARBROUGH
Senior Secretary

cc: Fiscal, City of Eagle

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NOV 0 8 1995

Form No. 204
7/94

For Office Use Only
$50 Fee Receipted by JW
Date 8-30-95
Receipt No. 033472

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

RECEIVED
AUG 29 1995
Department of Water Resources

REQUEST FOR EXTENSION OF TIME
TO PROVIDE ADDITIONAL TIME IN WHICH TO SUBMIT PROOF OF BENEFICIAL USE FOR A WATER RIGHT PERMIT

The Idaho Department of Water Resources will consider this form as a request that the permit holder(s) be granted an additional period of time under the provisions of Section 42-204, Idaho Code in which to complete development of a water right.

Permit No. 63-11413

Name(s) of Permit Holder: Treasure Valley Village/Floating Feather Hills Inc.

Mailing Address: 4619 Emerald, Suite D-2, Boise, ID 83706

Date Proof is Due: 9-1-95 Telephone No. 336-0315

Describe what work has been completed toward the development of this water right:
(This must be filled out! If no work has been completed, show "none".)

Two wells have been drilled, developed and equipped. A pipe line network has been constructed and approximately 400 lots developed. Capacity developed to date is 2.4 cfs of total 3.25 approved.

Costing $ 500,000

The permit holder(s) has been unable to complete the remainder of the work for the following reasons:

The completed development is planned over 10 - 15 years for total build-out. Economic conditions and government approvals dictate the rate at which lots can be completed and sold. This has a direct affect on water demand.

Permit holder(s) request an extension to 9-1, 2000.

FEE: $50.00

Duane Stueckle
(Signature)* Duane Stueckle

**If other than permit holder, Power of Attorney must be supplied.*

ACTION OF THE DEPARTMENT OF WATER RESOURCES

IT IS HEREBY ORDERED that the above request for extension of time be

NOV 08 1995

Signed this _____ day of _____, 19_____.

June 30, 1995

CITY OF EAGLE
PO BOX 477
EAGLE ID 836160477

PROOF DUE NOTICE

RE: PERMIT NO. 63-11413

Dear Permit Holder:

One of the conditions of approval of the above referenced water permit was that proof of the extent of your beneficial use must be submitted to this office on or before September 1, 1995. (See last page of your approved permit or your last approved extension request.) Enclosed is a form which when accompanied by the license examination fee or a complete field examination report prepared by a certified water right examiner may be used to submit the required proof.

If you have not fully completed your project, and you or a previous owner of this permit have not received a prior extension of time, you may request an extension of time if the delay is for reasonable cause as provided in Section 42-204, Idaho Code. If you have been prevented from proceeding by a governmental agency or by litigation which might bring title to the water in question, more than one extension of time can be granted. An extension of time request form is enclosed for your convenience.

Either an acceptable proof of beneficial use submittal or an acceptable request for an extension of time must be received by this department on or before the above described proof due date. If neither is received, the department will send you a lapse notice. Within sixty (60) days of the mailing of the lapse notice, the permit will no longer be of any force nor effect.

SINCERELY,

JULIE L. YARBROUGH
Senior Secretary

Enclosures

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NOV 08 1995

CERTIFIED MAIL
NO. 142173

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

January 12, 1995

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JAN 1 8 1995
Department of Water Resources

Katherine Shiflet
Customer Resource Director
Boise Water Corporation
PO Box 7488
Boise, ID 83707

RE: Permit No. 63-11413 for the City of Eagle

Dear Ms. Shiflet:

The totalizing data for the second half of 1994 related to the above referenced water right for Lexington Hills and Echo Creek Subdivisions was delivered to this office by you on January 11, 1995. This meets the requirement of Condition of Approval No. 8 for the permit. The data is satisfactory and within the water right limits.

Thank you for your prompt attention in this matter.

Sincerely,

Steve Lester
Water Rights Supervisor

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NOV 0 8 1995

EM2
General Waterworks Corporation

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JAN 11 1995
WATER RESOURCES
WESTERN REGION

January 4, 1995

Mr. David R. Tuthill Jr., P.E.
Idaho Department of Water Resources
Western Region
2735 Airport Way
Boise, Idaho 83705-5082

RE: Permit No. 63-11413 for the City of Eagle

Dear Mr. Tuthill:

The following information pertains to the period from 6/24/94 to 1/3/95:

Total for Well No. 1 - 30,500,000 gallons - 93.6 Af } 93.7 Af (was 177.4 Af 1st 1/2 of 1994)
Total for Well No. 2 - 30,000 gallons - .1 Af

SV

This should provide you with the information you require. Should you need further assistance at this time, please call.

Very truly yours,

EM2

Katherine Shiflet

Katherine Shiflet
Vice President

KS:mm

c: Bob Lawrence

ORIGINAL - S.O. file
copy - Regin file

NOV 08 1995

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

January 9, 1995

Katherine Shiflet, Assistant Manager
Boise Water Corporation
PO Box 7488
Boise, ID 83707

RE: Permit No. 63-11413 for the City of Eagle

Dear Ms. Shiflet:

I am writing to remind you of the semi-annual data for well(s) usage related to the above-referenced water right permit in the name of City of Eagle but covering the Lexington Hills vicinity. Condition of Approval No. 8 requires that totalizing data from well(s) production for the last six months of 1994 be submitted by the first week of January of this year.

This office has not received the data yet. Your prompt response will be appreciated and will help to protect the water right. Please let me know if I can assist you in any way.

Sincerely,

Steve Lester
Water Rights Supervisor

NOV 08 1995

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

August 8, 1994

City of Eagle
C/O Ms. Mona Mack
Moore McFadden
999 Main St., Ste. 910
Boise, ID 83702

RE: Water Right Permit No. 63-11413

Dear Ms. Mack:

I am writing to you as the contact person for the owner of the water right permit for the wells serving Lexington Hills and Echo Creek Subdivisions. This letter refers to Condition of Approval No. 6 which limits the use of ground water during the irrigation season when surface water is available through Farmers Union Ditch Company.

Previous discussions with you and/or other contact persons for the city focused on a few households within Echo Creek Subdivision for which it appeared that excessive use of well water was being made for yard use. Based on current records provided by General Waterworks ("Boise Water Corp."), one finds that four homes used excessive amounts of ground water during the period from June 15 to July 15 of this year.

Allowing a very generous amount of 1,000 gallons/day/home would provide 30,000 gallons/month/home. Amounts beyond this must be considered excessive and point to a violation of Condition of Approval No. 6. Please see the four homes highlighted in the attached copy of consumption records. Quantities exceeding 30,000 gallons/month are shown as values above 40 ccf.

Please inform the City of Eagle that, as permit owner of record, it is responsible for ensuring that violations such as this do not occur. Also, the city should provide to this office an explanation of how and when the city intends to prevent excessive uses of well water from occurring.

A written response within two weeks would be appreciated. Please contact me if you have any questions about this or other matters.

Sincerely,

Steve Lester
Water Rights Supervisor

Enclosure

NOV 08 1995

63-11413

To: Dave Luthill

Attached for your review is the requested consumption information for the Lexington Hills/Trail Creek water system. There are only 4 customers with consumption greater than 40 CCF for the billing period 6-15-94 thru 7-15-94. If you have questions, please call. Jody Gilfillet 323-7990

RECEIVED
JUL 27 1994
WATER RESOURCES
WESTERN REGION

Steve ✓

PER ORT (8/3/94)
Allow 1000 gpd/home
int. use. This allows
40 ccf/month/home
int. use. —SR

Printouts labeled
" GENERAL WATERWORKS
Billing Register
7/20-8/16 1994 "
in 2 parts:
Echo Ck/Trail Ck
&
Lexington Hills

NOV 08 1995

GENERAL WATERWORKS
AUTOMATED CUSTOMER BILLING SYSTEM (195) EM2 INC.
BILLING REGISTER

30,000 gal. per month = 40 CCF

BOOK 056 BILL DATE 07/20/94 DUE DATE 08/16/94 CYCLE *M* PAGE # 001

Echo Creek / Trail Creek

ACCT #	METER-OUT / METER-IN	DATES: PREVIOUS / CURRENT	READINGS: PREVIOUS / CURRENT	CURRENT BILLING INFORMATION: CONS / # OF DAILS	WATER COST / SEWER COST	LAST BILLING: BALANCE DATE	TOTAL PAID: NET ADJ.	DATE	LINE	CUSTOMER NAME / SERVICE ADDRESS	METER CONDITION	
000209		06154 / 07154		442 / 4*		06214		00000	6	TREASURE VALLEY VILLAGE COMMON AREA EACR-ROTL	1	9 N
		DATE READ 06154 / CONS N	DATE READ 05164 / CONS N	DATE READ 05134 / CONS 1833	DATE READ 03144	DATE READ 02154	DATE READ 01144			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # LAST ACTUAL READINGS 0 METER SERIAL # X-000000000 METER TEST DATE		CK DTE
000407		06154 / 07154	556 / 570	14F / 3*	331 1 1022	938 06214	938-07114 00000		1	SHAUN HAIR 1022 N2945 E RED TAIL AVE	1	1
		DATE READ 06154 / CONS 12	DATE READ 05164 / CONS 44	DATE READ 04154 / CONS 7	DATE READ 03144 / CONS 5	DATE READ 02154 / CONS 6	DATE READ 01144 / CONS 5			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # LAST ACTUAL READINGS 556 0 METER SERIAL # X-046332272 METER TEST DATE		CK DTE
003401		06154 / 07154	50 / 59	9F / 3*	331 1 812	686 06214	686-07154 00000		1	ERIC L QUINN & $ 812 N2993 E RED TAIL AVE	1	1
		DATE READ 06154 / CONS 3	DATE READ 05164 / CONS 5	DATE READ 04154 / CONS 5	DATE READ 03144 / CONS 3	DATE READ 02154 / CONS 4	DATE READ 01144 / CONS 5			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # LAST ACTUAL READINGS 50 0 METER SERIAL # X-047010331 METER TEST DATE		CK DTE
003617		06154 / 07154	73 / 86	13F / 3*	331 1 980	770 06214	00000		1	ERVIN L & KARA M HOGE $ 1750 N3017 E RED TAIL AVE	1	1
		DATE READ 06154 / CONS 8	DATE READ 05164 / CONS 11*	DATE READ 04154 / CONS 8	DATE READ 03144 / CONS 11*	DATE READ 02154 / CONS 8*	DATE READ 01144 / CONS 10*			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # LAST ACTUAL READINGS 73 0 METER SERIAL # X-046861229 METER TEST DATE		CK DTE
003807		06154 / 07154	223 / 231	8F / 3*	331 1 770	1232 06214	1232-07114 00000		1	RODNEY K LAFFERTY & 770 N3041 E RED TAIL AVE	1	1
		DATE READ 06154 / CONS 19	DATE READ 05164 / CONS 18	DATE READ 04154 / CONS 9	DATE READ 03144 / CONS 5	DATE READ 02154 / CONS 7	DATE READ 01144 / CONS 6			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # LAST ACTUAL READINGS 223 0 METER SERIAL # X-046575680 METER TEST DATE		CK DTE
004011		06154 / 07154	73 / 79	6F / 3*	331 1 686	1022 06214	00000		1	JAN M NOWAK 1708 N3057 E RED TAIL AVE	1	1
		DATE READ 06154 / CONS 12*	DATE READ 05164 / CONS 8	DATE READ 04154 / CONS 9*	DATE READ 03144 / CONS 5	DATE READ 02154 / CONS 7	DATE READ 01144 / CONS 5			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # LAST ACTUAL READINGS 73 0 METER SERIAL # T-038047013 METER TEST DATE		CK DTE
004201		06154 / 07154		3*	331 1	728- 06214	00000 728 06304		3	ALAN D & SUSAN J BORGEN N3073 E RED TAIL AVE	1	N
		DATE READ 06154 / CONS N	DATE READ 05164 / CONS N	DATE READ 04294 / CONS 263	DATE READ 03144 / CONS 7	DATE READ 02154 / CONS 9	DATE READ 01144 / CONS 8			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # LAST ACTUAL READINGS 0 METER SERIAL # X-046861514 METER TEST DATE		CK DTE
004219		06154 / 07154	202 / 209	7F / 3*	331 1 728	1736 06214	1736-07114 00000		1	GARY J ROLOFF & 728 N3073 E RED TAIL AVE	1	1
		DATE READ 06154 / CONS 31*	DATE READ 05164 / CONS 113	DATE READ 05024 / CONS 263	DATE READ 03144 / CONS 7	DATE READ 02154 / CONS 9	DATE READ 01144 / CONS 8			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # LAST ACTUAL READINGS 202 0 METER SERIAL # X-046861514 METER TEST DATE		CK DTE
004409		06154 / 07154	225 / 230	5F / 3*	331 1 686	4070 06214	4070-07154 00000		1	CINDEE LOU JOHNSON 686 N1377 N TRAIL CREEK	1	1
		DATE READ 06154 / CONS 33*	DATE READ 05164 / CONS 43*	DATE READ 04154 / CONS 28*	DATE READ 03144 / CONS 6	DATE READ 02154 / CONS 6	DATE READ 01144 / CONS 4			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # LAST ACTUAL READINGS 225 0 METER SERIAL # X-047084728 METER TEST DATE		CK DTE
006016		06154 / 07154	207 / 218	11F / 3*	331 1 896	938 06214	00000		1	NATALIE L WALTON & 1834 N1356 N TRAIL CREEK WY	1	1
		DATE READ 06154 / CONS 12	DATE READ 05164 / CONS 22	DATE READ 04154 / CONS 9	DATE READ 03144 / CONS 6	DATE READ 02154 / CONS 8	DATE READ 01144 / CONS 10			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # LAST ACTUAL READINGS 207 0 METER SERIAL # X-046770421 METER TEST DATE		CK DTE
006206		06154 / 07154	437 / 446	9F / 3*	331 1 812	1190 06214	1190-07154 00000		1	CHARLOTTE A CHANEY 812 N1378 N TRAIL CREEK	1	1
		DATE READ 06154 / CONS 18	DATE READ 05164 / CONS 53*	DATE READ 04154 / CONS 8	DATE READ 03144 / CONS 6	DATE READ 02154 / CONS 7	DATE READ 01144 / CONS 6			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # LAST ACTUAL READINGS 437 0 METER SERIAL # X-046332315 METER TEST DATE		CK DTE
006404		06154 / 07154	190 / 207	17F / 3*	331 1 1148	1064 06214	1064-07154 00000		1	FRANCO MASSARI 1148 N1400 N TRAIL CREEK WY	1	1
		DATE READ 06154 / CONS 15	DATE READ 05164 / CONS 16	DATE READ 04154 / CONS 10	DATE READ 03144 / CONS 9	DATE READ 02154 / CONS 8	DATE READ 01144 / CONS 17			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # LAST ACTUAL READINGS 190 0 METER SERIAL # X-046794352 METER TEST DATE		CK DTE
006610		06154 / 07154	26 / 40	14F / 3*	331 1 1022	1022 06214	00000		1	CORY J LEINBERGER $ 2044 N1422 N TRAIL CREEK DR	1	1
		DATE READ 06154 / CONS 14*	DATE READ 05164 / CONS 12*	DATE READ 04154 / CONS *	DATE READ 03144 / CONS *	DATE READ 02154 / CONS 3	DATE READ 01214 / CONS 3			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # LAST ACTUAL READINGS 26 0 METER SERIAL # T-039095450 METER TEST DATE 04/94		CK DTE
006818		06154 / 07154	128 / 158	30F / 3*	331 1 1694	1610 06214	1610-07154 00000		1	SUSAN L O'BAN $ 1694 N1444 N TRAIL CREEK WY	1	1
		DATE READ 06154 / CONS 28*	DATE READ 05164 / CONS 15*	DATE READ 04154 / CONS 8	DATE READ 03144 / CONS 6	DATE READ 02154 / CONS 5	DATE READ 01144 / CONS 5			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # LAST ACTUAL READINGS 128 0 METER SERIAL # R-046793673 METER TEST DATE		CK DTE

FORM NO. ACBS-21 5/78
HES DATA PRODS, INC.

Customers with consumption greater than 40 CCF are highlighted in yellow.

AUTOMATED CUSTOMER BILLING SYSTEM (195) EM2 INC. BOOK 056 BILL DATE 07/20/94 CUTOFF DATE 08/16/94 CYCLE *M* PAGE # 002

BILLING REGISTER

ACCT #	METER OUT / METER IN	DATES: PREVIOUS / CURRENT	READINGS: PREVIOUS / CURRENT	CONS / # OF DAYS	CURRENT BILLING INFORMATION: WATER COST / SEWER COST	OTHER CHARGE / OTHER CHARGE	LAST BILLING: BALANCE / DATE	LATEST: TOTAL PAID / NET AMT / DATE	CURRENT: LEFT	NAME / ADDRESS	METER CONDITION
007006		06154 / 07154	155 / 164	9 F331 1 / 3*	812		1190 / 1190	1190-07154 / 00000	812	1 STEPHANIE A CHURCHMAN 1466 N TRAIL CREEK WY	
							06214				
PRIOR HISTORY		DATE READ 06154 / 05164 / 04154 / 03144 / 02154 / 01144									
		CONS 18 / 17 / 10 / 5 / 7 / 9									
									LAST ACTUAL READ DATE 06154	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
									LAST ACTUAL READINGS 155	METER SERIAL # X-046861965	METER TEST DATE
007204		06154 / 07154	366 / 373	7 F331 1 / 3*	728		1274 / 1274	1274-07154 / 00000	728	1 DAVID L BURT 1488 N TRAIL CREEK WY	
							06214				
PRIOR HISTORY		DATE READ 06154 / 05164 / 04154 / 03144 / 02154 / 01144									
		CONS 20 / 12 / 12 / 7 / 9 / 8									
									LAST ACTUAL READ DATE 06154	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
									LAST ACTUAL READINGS 366	METER SERIAL # X-046770431	METER TEST DATE
007402		06154 / 07154	919 / 953	34 F331 1 / 3*	1862		1652 / 1652	1652-07154 / 00000	1862	1 JAMES J-SANDRA L ACEVEZ 1510 N TRAIL CREEK WY	
							06214				
PRIOR HISTORY		DATE READ 06154 / 05164 / 04154 / 03144 / 02154 / 01144									
		CONS 29 / 30 / 22 / 10 / 14 / 12									
									LAST ACTUAL READ DATE 06154	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
									LAST ACTUAL READINGS 919	METER SERIAL # X-042697595	METER TEST DATE
007600		06154 / 07154	365 / 424	59 F331 1 / 3*	2912		1946 / 1946	1946-07114 / 00000	2912	1 DANNO MONTGOMERY $ 1532 N TRAIL CREEK WY	
							06214				
PRIOR HISTORY		DATE READ 06154 / 05164 / 04154 / 03144 / 02154 / 01144									
		CONS 36* / 31* / 19 / 8 / 9 / 8									
									LAST ACTUAL READ DATE 06154	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
									LAST ACTUAL READINGS 365	METER SERIAL # X-046332270	METER TEST DATE
007709		06154 / 07154		442 1 / 4*				00000 / 00000		6 TREASURE VALLEY VILLAGE 1 9 COMMOM AREA TRAIL CRK	
							06214				
PRIOR HISTORY		DATE READ 06154 / 05164 / 05134 / 03144 / 02154 / 01144									
		CONS N / N / 1003									
									LAST ACTUAL READ DATE 06154	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
									LAST ACTUAL READINGS	METER SERIAL # X-000000000	METER TEST DATE
007808		06154 / 07154		F331 1 / 3*	686		686	686-07154 / 00000		1 LEGACY HOMES * 1556 N TRAIL CREEK DR	
							06214		686		
PRIOR HISTORY		DATE READ 06154 / 05164 / 04154 / 03144 / 03014 / 00000									
		CONS * / * / * / 3 / Z									
									LAST ACTUAL READ DATE 06154	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
									LAST ACTUAL READINGS 0	METER SERIAL # T-038988069	METER TEST DATE 03/94
007907		06154 / 07154	22 / 52	30 F331 1 / 3*	1694		1316 / 1316	1316-07154 / 00000	1694	1 CORY BARTON BUILDERS $ 1580 N TRAIL CREEK WY	
							06214				
PRIOR HISTORY		DATE READ 06154 / 05164 / 04154 / 03144 / 02154 / 02044									
		CONS 21* / / / 1 / 3 / Z									
									LAST ACTUAL READ DATE 06154	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
									LAST ACTUAL READINGS 22	METER SERIAL # T-038837661	METER TEST DATE 02/94
008004		06154 / 07154	20 / 26	6 F331 1 / 3*	686		2058	00000 / 00000	2744	1 LANDMARK HOMES 1604 N TRAIL CREEK DR	
							06214				
PRIOR HISTORY		DATE READ 06154 / 05164 / 04154 / 03144 / 02154 / 01204									
		CONS 4 / 5 / 5 / 5* / 13 / Z									
									LAST ACTUAL READ DATE 06154	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
									LAST ACTUAL READINGS 20	METER SERIAL # T-038837700	METER TEST DATE 01/94
008111		06154 / 07154	32 / 36	4 F331 1 / 3*	686		728	782-07114 / 00000	632	1 ROBERT & GINGER A STEED 1628 N TRAIL CREEK DR	
							06214				
PRIOR HISTORY		DATE READ 06154 / 05164 / 04154 / 03144 / 02154 / 01204									
		CONS 7 / 9* / 6 / 5 / 53 / Z									
									LAST ACTUAL READ DATE 06154	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
									LAST ACTUAL READINGS 32	METER SERIAL # T-038837701	METER TEST DATE 01/94
008202		06154 / 07154	1 / 2	1 F331 1 / 3*	686		686	686-07154 / 00000	686	1 TUCKER LABRUM CONST $ 1652 N TRAIL CREEK WY	
							06214				
PRIOR HISTORY		DATE READ 06154 / 05164 / 04154 / 03144 / 02164 / 00000									
		CONS / 1 / * / 3 / Z /									
									LAST ACTUAL READ DATE 06154	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
									LAST ACTUAL READINGS 1	METER SERIAL # T-038988023	METER TEST DATE 02/94
008400		06154 / 07154		331 1 / 3*			503	503-07014 / 00000		3 LIFESTYLE HOMES 1700 N TRAIL CREEK DR	
							06214				
PRIOR HISTORY		DATE READ 06154 / 06074 / 04254 / 00000 / 00000 / 00000									
		CONS N / 13 / Z / / /									
									LAST ACTUAL READ DATE 06154	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
									LAST ACTUAL READINGS	METER SERIAL # T-039086941	METER TEST DATE 04/94
008418		06154 / 07154	4 / 17	13 F331 1 / 3*	980		242	242-07154 / 00000	980	1 FRANKLIN O CARROLL & $ 1700 N TRAIL CREEK DR	
							06214				
PRIOR HISTORY		DATE READ 06154 / 06074 / 04254 / 00000 / 00000 / 00000									
		CONS 33 / 13 / Z / / /									
									LAST ACTUAL READ DATE 06074	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
									LAST ACTUAL READINGS 1	METER SERIAL # T-039086941	METER TEST DATE 04/94
008509		06154 / 07154	1 / 1	F331 1 / 3*	686		686	686-07154 / 00000	686	1 TUCKER LABRUM CONST 1724 N TRAIL CREEK DR	
							06214				
PRIOR HISTORY		DATE READ 06154 / 05164 / 04154 / 03144 / 02164 / 00000									
		CONS 1 / * / * / 3 / Z /									
									LAST ACTUAL READ DATE 06154	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
									LAST ACTUAL READINGS 1	METER SERIAL # T-038988021	METER TEST DATE 02/94
008616		06154 / 07154	28 / 35	7 F331 1 / 3*	728		728	728-07154 / 00000	728	1 CARL D JOHNSON $ 1748 N TRAIL CREEK DR	
							06214				
PRIOR HISTORY		DATE READ 06154 / 05164 / 04154 / 03144 / 03014 / 00000									
		CONS 7* / 9* / 6* / 53 / 13 /									
									LAST ACTUAL READ DATE 06154	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
									LAST ACTUAL READINGS 28	METER SERIAL # T-038837926	METER TEST DATE 02/94

FORM NO. ACBS-21 5/78

HES DATA PRODS. INC.

10 08 95

GENERAL WATERWORKS
AUTOMATED CUSTOMER BILLING SYSTEM (195) EM2 INC. BOOK 056 07/20/94 08/16/94 CYCLE *M* PAGE # 003
BILLING REGISTER

SEQ	ACCT #	CYCLE	METER-OUT / METER-IN	DATES PREVIOUS / CURRENT	READINGS PREVIOUS / CURRENT	CONS # OF DIALS	CURRENT BILLING INFORMATION: UNITS	CODE	WATER SEW %	WATER COST / SEWER COST	CODE	OTHER CHARGE / OTHER CHARGE	CODE	BALANCE / OTHER CHARGE	LATE CHARGE DATE / TOTAL PAID / NET AMT	DATE	CUSTOMER NAME / SERVICE ADDRESS	MISC	RTE	SEQ	PL
	008707		06154				331	1						503	503-07014		3LIFESTYLE HOMES		1		N
			07154		3*									06214	00000		N1772 N TRAIL CREEK DR				
PRIOR HISTORY			DATE READ 06154 CONS N	DATE READ 06074 CONS 23		DATE READ 04254 CONS Z		DATE READ 00000 CONS		DATE READ 00000 CONS		DATE READ 00000 CONS					LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE; LAST ACTUAL READINGS 0 METER SERIAL # T-039086938 METER TEST DATE 04/94				
	008715		06154	3	6F	331	1	686						183	183-07114		1FRANK A HASMAN	$	1		1
			07154	9	3*									06214	00000		686 N1772 N TRAIL CREEK DR				
PRIOR HISTORY			DATE READ 06154 CONS 13	DATE READ 06074 CONS 23		DATE READ 04254 CONS Z		DATE READ 00000 CONS		DATE READ 00000 CONS		DATE READ 00000 CONS					LAST ACTUAL READ DATE 06074 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE; LAST ACTUAL READINGS 2 0 METER SERIAL # T-039086938 METER TEST DATE 04/94				
	008806		06154			331	1							229	00000		3SIERRA HOMES		1		B*
			07154		3*									06214	00000		229 N1796 N TRAIL CREEK WY				
PRIOR HISTORY			DATE READ 06154 CONS N	DATE READ 05164 CONS N		DATE READ 04154 CONS N		DATE READ 04044 CONS 23		DATE READ 00000 CONS		DATE READ 00000 CONS					LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE; LAST ACTUAL READINGS 0 METER SERIAL # T-038988270 METER TEST DATE 03/94				
	008814		06154	20	8F	331	1	770						728	728-07014		1A MOJICA	$	1		1
			07154	28	3*									06214	00000		770 N1796 N TRAIL CREEK WY				
PRIOR HISTORY			DATE READ 06154 CONS 7*	DATE READ 05164 CONS 8*		DATE READ 04154 CONS 33		DATE READ 04044 CONS 23		DATE READ 00000 CONS		DATE READ 00000 CONS					LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE; LAST ACTUAL READINGS 20 0 METER SERIAL # T-038988270 METER TEST DATE 03/94				
	008905		06154	46	9F	331	1	812						2898	2898-07154		1HARRY L ECCARD &		1		1
			07154	55	3*									06214	00000		812 N1820 N TRAIL CREEK DR				
PRIOR HISTORY			DATE READ 06154 CONS 11	DATE READ 05164 CONS 16*		DATE READ 04154 CONS 11		DATE READ 03144 CONS 83		DATE READ 02164 CONS Z		DATE READ 00000 CONS					LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE; LAST ACTUAL READINGS 46 0 METER SERIAL # T-038988020 METER TEST DATE 02/94				
	009101		06154	3	F	331	1	686						686	686-07154		1TUCKER LABRUM CONST		1		1
			07154	3	3*									06214	00000		686 N1833 N TRAIL CREEK DR				
PRIOR HISTORY			DATE READ 06154 CONS	DATE READ 05164 CONS 2		DATE READ 04154 CONS 1		DATE READ 03144 CONS 3		DATE READ 02224 CONS Z		DATE READ 00000 CONS					LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE; LAST ACTUAL READINGS 3 0 METER SERIAL # T-038987910 METER TEST DATE 02/93				
	009200		06154	4	1F	331	1	686						686	686-07154		1LANDMARK HOMES		1		1
			07154	5	3*									06214	00000		686 N1809 N TRAIL CREEK DR				
PRIOR HISTORY			DATE READ 06154 CONS 3*	DATE READ 05164 CONS 13		DATE READ 05064 CONS Z		DATE READ 00000 CONS		DATE READ 00000 CONS		DATE READ 00000 CONS					LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE; LAST ACTUAL READINGS 4 0 METER SERIAL # T-039087184 METER TEST DATE 05/94				
	009606		06204			331	1							548	00000		3MAX MILLER CONSTRUCTION		1		B*
			07154		3*									07014	00000		548 N3006 E FERNBROOK				
PRIOR HISTORY			DATE READ 06204 CONS 3	DATE READ 05274 CONS Z		DATE READ 00000		DATE READ 00000 CONS		DATE READ 00000 CONS		DATE READ 00000 CONS					LAST ACTUAL READ DATE 05274 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE; LAST ACTUAL READINGS 0 METER SERIAL # T-039290600 METER TEST DATE 05/94				
	*009614		06204		4F	331	1	572							00000		1JILL K STEPHENS	$P	1		1
			07154	4	3*									00000	00000		572 N3006 E FERNBROOK	S			
PRIOR HISTORY			DATE READ 06204 CONS 3	DATE READ 05274 CONS Z		DATE READ 00000 CONS		DATE READ 00000 CONS		DATE READ 00000 CONS		DATE READ 00000 CONS					LAST ACTUAL READ DATE 06204 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE; LAST ACTUAL READINGS 0 METER SERIAL # T-039290600 METER TEST DATE 05/94				
	009705		06154			331	1							640	00000		3MOHR BUILDERS		1		B*
			07154		3*									06214	00000		640 N2982 E FERNBROOK				
PRIOR HISTORY			DATE READ 06154 CONS N	DATE READ 05164 CONS N		DATE READ 05134 CONS 53		DATE READ 03144 CONS Z		DATE READ 00000 CONS		DATE READ 00000 CONS					LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE; LAST ACTUAL READINGS 0 METER SERIAL # T-038987796 METER TEST DATE 03/94				
	009713		06154	18	8F	331	1	770						980	980-07114		1BRAD N WIRTZ &		1		1
			07154	26	3*									06214	00000		770 N2982 E FERNBROOK				
PRIOR HISTORY			DATE READ 06154 CONS 13*	DATE READ 05164 CONS N		DATE READ 05134 CONS 53		DATE READ 03144 CONS Z		DATE READ 00000 CONS		DATE READ 00000 CONS					LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE; LAST ACTUAL READINGS 18 0 METER SERIAL # T-038987796 METER TEST DATE 03/94				
	009804		06154	1	1F	331	1	686						686	00000		1MAX MILLER CONSTRUCTION	$	1		1
			07154	2	3*									06214	00000		1372 N2958 E FERNBROOK				
PRIOR HISTORY			DATE READ 06154 CONS	DATE READ 05164 CONS		DATE READ 04154 CONS 1		DATE READ 03144 CONS 3		DATE READ 03084 CONS Z		DATE READ 00000 CONS					LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE; LAST ACTUAL READINGS 1 0 METER SERIAL # T-038988126 METER TEST DATE 03/94				
	009911		06154	9	2F	331	1	686						686	686-07154		1STEVE C PONTELLO		1		1
			07154	11	3*									06214	00000		686 N2934 E FERNBROOK				
PRIOR HISTORY			DATE READ 06154 CONS 2	DATE READ 05164 CONS 3*		DATE READ 04154 CONS 2		DATE READ 03144 CONS 13		DATE READ 02234 CONS 13		DATE READ 02084 CONS Z					LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE; LAST ACTUAL READINGS 9 0 METER SERIAL # T-038837626 METER TEST DATE 02/94				
	010000		06154			331	1							1578	1578-07114		3DARRELL WILSON CONST		1		N
			07154		3*									06214	00000		N2910 E FERNBROOK				
PRIOR HISTORY			DATE READ 06154 CONS N	DATE READ 05274 CONS 13		DATE READ 04154 CONS 13		DATE READ 03164 CONS Z		DATE READ 00000 CONS		DATE READ 00000 CONS					LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE; LAST ACTUAL READINGS 0 METER SERIAL # T-039086919 METER TEST DATE 04/94				

FORM NO. ACBS-21 5/78
HES DATA PRODS. INC.

GENERAL WATERWORKS
AUTOMATED CUSTOMER BILLING SYSTEM 195) EM2 INC.

BOOK #056 BILL DATE 07/20/94 CUTOFF DATE 08/16/94 CYCLE *M* PAGE # 004

BILLING REGISTER

ACCT #	METER-OUT / METER-IN	DATES PREVIOUS / CURRENT	READINGS PREVIOUS / CURRENT	CONS # OF DAYS	CURRENT BILLING INFORMATION: WATER COST / SEWER COST / OTHER CHARGE / OTHER CHARGE / OTHER CHARGE	LAST BILLING BALANCE DATE	TOTAL DUE / NET ADJ	LATEST PAY DATE / DATE	CURRENT NET	CUSTOMER NAME / SERVICE ADDRESS
010018		06154 / 07154	7 / 17	10 / 3*	F331 1 854	527 / 06214		00000 / 00000		1D JAMES FODREA $ 1 1 1381 N2910 E FERNBROOK
PRIOR HISTORY		06154 / 05274 / 04154 / 03164 / 00000	CONS 63 / 13 / 13 / 7					00000		LAST ACTUAL READ DATE 05274 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG # CK DTE LAST ACTUAL READINGS 1 0 METER SERIAL # T-039086921 METER TEST DATE 04/94
017310		06154 / 07154	22 / 28	6 / 3*	F331 1 686	686 / 06214	686-07114	00000 / 00000		1ARTHUR BEAUCHENE 1 1 686 N1653 N EAGLE CREEK WY
PRIOR HISTORY		06154 / 05164 / 04154 / 03144 / 02184	CONS 6 / 6* / 6* / 43 / 3					02014	Z	LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG # CK DTE LAST ACTUAL READINGS 22 0 METER SERIAL # T-038837798 METER TEST DATE 02/94
017401		06154 / 07154	2 / 3	1 / 3*	F331 1 686	800 / 06214	914-07154	00000 / 00000		1WIRT EDMONDS 1 1 572 N1629 N EAGLE CREEK
PRIOR HISTORY		06154 / 05164 / 05114 / 00000 / 00000	CONS 2 / 3 / Z					00000		LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG # CK DTE LAST ACTUAL READINGS 2 0 METER SERIAL # T-039087076 METER TEST DATE 05/94
017518		06154 / 07154	13 / 24	11 / 3*	F331 1 896	499 / 06214	499-07114	00000 / 00000		1ROBERT W BLAYLOCK & $ 1 1 896 N2897 E FERNBROOK
PRIOR HISTORY		06154 / 05264 / 04154 / 03174 / 00000	CONS 53 / 83 / 3 / Z					00000		LAST ACTUAL READ DATE 05264 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG # CK DTE LAST ACTUAL READINGS 8 0 METER SERIAL # T-038837645 METER TEST DATE 03/94
017609		06154 / 07154	/ 3*	F331 1 686		800 / 06214		00000 / 00000		1WIRT EDMONDS * 1 1 1486 N2921 E FERNBROOK
PRIOR HISTORY		06154 / 05164 / 05114 / 00000 / 00000	CONS * / 3 / Z					00000		LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG # CK DTE LAST ACTUAL READINGS 0 METER SERIAL # T-039087074 METER TEST DATE 05/94
017807		06154 / 07154	/ 3*	331 1		229 / 06214		00000 / 00000		3MOHR BUILDERS 1 B* 229 N2969 E FERNBROOK
PRIOR HISTORY		06154 / 05164 / 04254 / 00000 / 00000	CONS N / N / 13					00000		LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG # CK DTE LAST ACTUAL READINGS 0 METER SERIAL # T-038988374 METER TEST DATE 04/94
017815		06154 / 07154	6 / 11	5 / 3*	F331 1 686	686 / 06214	686-07154	00000 / 00000		1PETER J HARTMAN & $ 1 1 686 N2969 E FERNBROOK
PRIOR HISTORY		06154 / 05164 / 04254 / 00000 / 00000	CONS 3 / 23 / 13					00000		LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG # CK DTE LAST ACTUAL READINGS 6 0 METER SERIAL # T-038988374 METER TEST DATE 04/94
017914		06154 / 07154	13 / 21	8 / 3*	F331 1 770	686 / 06214	686-07114	00000 / 00000		1TIM B MARTINEZ $ 1 1 770 N2993 E FERNBROOK
PRIOR HISTORY		06154 / 05164 / 04154 / 04044 / 02154	CONS 6* / 5* / 23 / 3 / Z					00000		LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG # CK DTE LAST ACTUAL READINGS 13 0 METER SERIAL # T-038987981 METER TEST DATE 02/94
018003		06154 / 07154	1 / 1	F331 1	686	640 / 06214	640-07154	00000 / 00000		1LANDMARK HOMES 1 1 686 N3017 E FERNBROOK
PRIOR HISTORY		06154 / 05184 / 00000 / 00000 / 00000	CONS 13 / Z					00000		LAST ACTUAL READ DATE 05184 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG # CK DTE LAST ACTUAL READINGS 0 METER SERIAL # T-039290585 METER TEST DATE 05/94
018102		06154 / 07154	2 / 2	F331 1	686	1967 / 06214	1967-07154	00000 / 00000		1WAYNE SWANSON 1 1 686 N1617 N TRAIL CREEK
PRIOR HISTORY		06154 / 05164 / 04154 / 03184 / 00000	CONS 1 / 1 / 3 / Z					00000		LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG # CK DTE LAST ACTUAL READINGS 2 0 METER SERIAL # T-038988199 METER TEST DATE 03/94
018219		06154 / 07154	20 / 30	10 / 3*	F331 1 854	728 / 06214	728-07114	00000 / 00000		1JAMES W HOOVER $ 1 1 854 N1593 N TRAIL CREEK DR
PRIOR HISTORY		06154 / 05164 / 04154 / 03144 / 02154	CONS 7* / 6* / 4* / 13 / 23					01184	Z	LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG # CK DTE LAST ACTUAL READINGS 20 0 METER SERIAL # T-038837728 METER TEST DATE 01/94
018318		06154 / 07154	50 / 60	10 / 3*	F331 1 854	854 / 06214	854-07114	00000 / 00000		1ANTHONY I ROME & 1 1 854 N3030 E DAGGER FALLS
PRIOR HISTORY		06154 / 05164 / 04154 / 03214 / 02184	CONS 10 / 17 / 213 / 23 / Z					00000		LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG # CK DTE LAST ACTUAL READINGS 50 0 METER SERIAL # T-038837978 METER TEST DATE 02/94
018516		06154 / 07154	2 / 3	1 / 3*	F331 1 686	1349 / 06214	2012-07114	00000 / 00000		1THOMAS A LYNCH $ 1 1 23 N2982 E DAGGER FALLS
PRIOR HISTORY		06154 / 05164 / 04154 / 03234 / 02234	CONS 2 / 3 / 3 / Z					00000		LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG # CK DTE LAST ACTUAL READINGS 2 0 METER SERIAL # T-038987908 METER TEST DATE 02/94
018615		06154 / 07154	17 / 31	14 / 3*	F331 1 1022	1437 / 06214		00000 / 00000		1GARY J STAFFORD $ 1 1 2459 N2958 E DAGGER FALLS
PRIOR HISTORY		06154 / 05164 / 04254 / 04054 / 00000	CONS 12* / 53 / 3 / Z					00000		LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG # CK DTE LAST ACTUAL READINGS 17 0 METER SERIAL # T-038988367 METER TEST DATE 04/94

FORM NO. ACBS-21 5/78

HES DATA PRODS. INC.

GENERAL WATERWORKS
AUTOMATED CUSTOMER BILLING SYSTEM (495) EM2 INC. BOOK 056 BILL DATE 07/20/94 CUTOFF DATE 08/16/94 CYCLE *M* PAGE # 005
BILLING REGISTER

ACCT #	METER-OUT / METER-IN	DATES: PREVIOUS / CURRENT	READINGS: PREVIOUS / CURRENT	CURRENT BILLING INFORMATION: CONS / # OF DIALS	WATER COST / SEWER COST	OTHER CHARGE / OTHER CHARGE	LAST BILL: BALANCE / DATE	LATEST: TOTAL PAID / NET ADJ / DATE	CURRENT: SPCN / NET	CUSTOMER NAME / SERVICE ADDRESS
018805		06154		4F331 1	686		183	183-07154		1BORUP CONSTRUCTION $ 1
		07154	4	3*			06214	00000	686	N2910 E DAGGER FALLS
PRIOR HISTORY	DATE READ	06154	06074	00000	00000	00000	00000	00000	LAST ACTUAL READ DATE	06074 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE
	CONS.	3	Z						LAST ACTUAL READINGS	0 METER SERIAL # T-039290396 METER TEST DATE 06/94
019001		06154		F331 1	686		686	00000		1PACIFIC N/W ELECTRIC * 1
		07154		3*			06214	00000	1372	N1581 N EAGLE CREEK
PRIOR HISTORY	DATE READ	06154	05164	04154	03294	00000	00000		LAST ACTUAL READ DATE	06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE
	CONS.	*	*	3	Z				LAST ACTUAL READINGS	0 METER SERIAL # T-038987947 METER TEST DATE 03/94
019308		06284	6	331 1	999		999	999-07154		3PINNACLE HOMES 1 N
		07154		3*			07014	00000		N1544 N EAGLE CREEK WY
PRIOR HISTORY	DATE READ	06284	05164	04154	03144	03094	00000		LAST ACTUAL READ DATE	06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE
	CONS.	33	2	1	3	Z			LAST ACTUAL READINGS	3 0 METER SERIAL # T-038987887 METER TEST DATE 03/94
*019316		06284	6	5F331 1	456			00000		1GERALD A & LINDA L PITTS$P 1 1
		07154	11	3*			00000	00000	456	N1544 N EAGLE CREEK WY 13
PRIOR HISTORY	DATE READ	06284	05164	04154	03144	03094	00000		LAST ACTUAL READ DATE	06284 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE
	CONS.	33	2	1	3	Z			LAST ACTUAL READINGS	6 0 METER SERIAL # T-038987887 METER TEST DATE 03/94
019415		06154	27	14F331 1	1022		980	980-07114		1GEORGE D MALLETT JR & 1 1
		07154	41	3*			06214	00000	1022	N2923 E DAGGER FALLS
PRIOR HISTORY	DATE READ	06154	05164	04154	03234	00000	00000		LAST ACTUAL READ DATE	06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE
	CONS.	13*	14*	3	Z				LAST ACTUAL READINGS	27 0 METER SERIAL # T-038988187 METER TEST DATE 03/94
019514		06154	28	9F331 1	812		1498	728-07014		1RONALD L SHELTON $ 1 1
		07154	37	3*			06214	00000	1582	N2947 E DAGGER FALLS
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	03024	01144		LAST ACTUAL READ DATE	06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE
	CONS.	8	7*	9*	23	23	Z		LAST ACTUAL READINGS	28 0 METER SERIAL # T-038837558 METER TEST DATE 01/94
019605		06154	1	F331 1	686		1806	3061-07114		1THOMAS A LYNCH 1 1
		07154	1	3*			06214	00000	569-	N2971 E DAGGER FALLS
PRIOR HISTORY	DATE READ	06154	05164	04154	03254	00000	00000		LAST ACTUAL READ DATE	06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE
	CONS.	1*	*	*	Z				LAST ACTUAL READINGS	1 0 METER SERIAL # T-038987948 METER TEST DATE 03/94
019704		06154	2	F331 1	686		686	00000		1VANDERHOEF BUILDERS 1 1
		07154	2	3*			06214	00000	1372	N2995 E DAGGER FALLS
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01104		LAST ACTUAL READ DATE	06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE
	CONS.			2	*	*	Z		LAST ACTUAL READINGS	2 0 METER SERIAL # T-038837555 METER TEST DATE
019803		06154	4	331 1		686	686-07154			3UAYO CONSTRUCTION 1 N
		07154		3*			06214	00000		N3019 E DAGGER FALLS
PRIOR HISTORY	DATE READ	06154	06154	04154	04074	00000	00000		LAST ACTUAL READ DATE	06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE
	CONS.	N	43	3	Z				LAST ACTUAL READINGS	4 0 METER SERIAL # T-038988167 METER TEST DATE 04/94
*019811		06154	4	13F331 1	980			00000		1JOE C & CONNIE Y POST $ 1 1*
		07154	17	3*			00000	00000	980	N3019 E DAGGER FALLS
PRIOR HISTORY	DATE READ	06154	06154	04154	04074	00000	00000		LAST ACTUAL READ DATE	06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE
	CONS.	N	43	3	Z				LAST ACTUAL READINGS	4 0 METER SERIAL # T-038988167 METER TEST DATE 04/94
019910		06154	54	15F331 1	1064		2212	2212-07114		1STEVE S BURTON 1 1
		07154	69	3*			06214	00000	1064	N3043 E DAGGER FALLS
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02174	01144		LAST ACTUAL READ DATE	06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE
	CONS.	18*	14*	10*	113	13	Z		LAST ACTUAL READINGS	54 0 METER SERIAL # T-038837559 METER TEST DATE 01/94
*020009		06284		2F331 1	389			00000		1LIFESTYLE HOMES $P 1 1
		07154	2	3*			00000	00000	389	N3067 E DAGGER FALLS 13
PRIOR HISTORY	DATE READ	06284	00000	00000	00000	00000	00000		LAST ACTUAL READ DATE	06284 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE
	CONS	Z							LAST ACTUAL READINGS	0 METER SERIAL # T-039290491 METER TEST DATE 06/94
020405		06154	359	6F331 1	686		2828	2828-07014		1SHANE R & CHERI D LOBATO 1 1
		07154	365	3*			06214	00000	686	N1485 N EAGLE CREEK WY
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144		LAST ACTUAL READ DATE	06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE
	CONS	57*	40	22	10	5	5		LAST ACTUAL READINGS	359 0 METER SERIAL # X-046861208 METER TEST DATE
020611		06154	59	14F331 1	1022		812	00000		1ARTHUR J BEAUCHENE & $ 1 1
		07154	73	3*			06214	00000	1834	N1453 N EAGLE CREEK WY
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144		LAST ACTUAL READ DATE	06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE
	CONS	9*	8*	9*	8*	9*	8*		LAST ACTUAL READINGS	59 0 METER SERIAL # X-046861412 METER TEST DATE

FORM NO. ACBS-21 5/78
HES DATA PRODS. INC.

GENERAL WATERWORKS
AUTOMATED CUSTOMER BILLING SYSTEM (195) EM2 INC.

BOOK #056 BILL DATE 07/20/94 CUTOFF DATE 08/16/94 CYCLE *M* PAGE # 006

BILLING REGISTER

NEW	ACCT #	CUST CHECK	METER-OUT / METER-IN	DATES PREVIOUS / CURRENT	READINGS PREVIOUS / CURRENT	CURRENT BILLING INFORMATION: CONS # OF DIALS	UNIT	METER SIZE	WAT TX	SEW TX	WATER COST / SEWER COST	CODE	OTHER CHARGE / OTHER CHARGE	CODE	OTHER CHARGE / OTHER CHARGE	LAST BILLING BALANCE / DATE	CR	TOTAL PAID / NET ADJ.	LATEST DATE / DATE	CURRENT GROSS / NET	CR	CUSTOMER NAME / SERVICE ADDRESS	BILL CODES	# OF MINI-MUMS OR MAXI-MUMS	METER CONDITION	T	2	SPEC RETURN
	020801			06154	163	20	F	331	1		1274					1232			00000		1	RONALD B SCHOUMAN		1				1
				07154	183	3*										06214			00000	2506	N	1431 N EAGLE CREEK WY						
	PRIOR HISTORY		DATE READ	06154	DATE READ	05164	DATE READ	04154	DATE READ	03144	DATE READ	02154	DATE READ	01144	LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REG. #				CK DTE		
			CONS.	19	CONS.	16	CONS.	15	CONS.	12	CONS.	14	CONS.	14	LAST ACTUAL READINGS	163	0	METER SERIAL #	X-046861228	METER TEST DATE								
	021007			06154				442	1										00000		6	TREASURE VALLEY VILLAGE		1	9			N
				07154		4*										06214			00000		N	COMMON AREA RED TAIL						
	PRIOR HISTORY		DATE READ	06154	DATE READ	05164	DATE READ	05134	DATE READ	03144	DATE READ	02154	DATE READ	01144	LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REG. #				CK DTE		
			CONS.	N	CONS.	N	CONS.	4333	CONS.		CONS.		CONS.		LAST ACTUAL READINGS		0	METER SERIAL #	X-000000000	METER TEST DATE								
	021205			06154	963	10	F	331	1		854					4620		4620-07154			1	SCOTT L & SANDRA KNAPP		1				1
				07154	973	3*										06214			00000	854	N	2848 E RED TAIL CT						
	PRIOR HISTORY		DATE READ	06154	DATE READ	05164	DATE READ	04154	DATE READ	03144	DATE READ	02154	DATE READ	01144	LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REG. #				CK DTE		
			CONS.	10	CONS.	45*	CONS.	24	CONS.	10	CONS.	10	CONS.	7	LAST ACTUAL READINGS	963	0	METER SERIAL #	X-042697481	METER TEST DATE								
	021403			06154	430	13	F	331	1		980					1106			00000		1	RICHARD A ALBERS &		1				1
				07154	443	3*										06214			00000	2086	N	2824 E RED TAIL CT						
	PRIOR HISTORY		DATE READ	06154	DATE READ	05164	DATE READ	04154	DATE READ	03144	DATE READ	02154	DATE READ	01144	LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REG. #				CK DTE		
			CONS.	16	CONS.	47*	CONS.	26	CONS.	11	CONS.	11	CONS.	12	LAST ACTUAL READINGS	430	0	METER SERIAL #	X-047084723	METER TEST DATE								
	021601			06154	142	12	F	331	1		938					896			00000		1	MARK STRODER		1				1
				07154	154	3*										06214			00000	1834	N	2800 E RED TAIL CT						
	PRIOR HISTORY		DATE READ	06154	DATE READ	05164	DATE READ	04154	DATE READ	03144	DATE READ	02154	DATE READ	01144	LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REG. #				CK DTE		
			CONS.	11	CONS.	12	CONS.	10	CONS.	9	CONS.	10	CONS.	9	LAST ACTUAL READINGS	142	0	METER SERIAL #	X-046770420	METER TEST DATE								
	021809			06154	1		F	331	1		686					686			00000		1	TRAMER HOMES		1				1
				07154	1	3*										06214			00000	1372	N	2801 E RED TAIL CT						
	PRIOR HISTORY		DATE READ	06154	DATE READ	05164	DATE READ	00000	DATE READ	00000	DATE READ	00000	DATE READ	00000	LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REG. #				CK DTE		
			CONS.	1	CONS.	Z	CONS.		CONS.		CONS.		CONS.		LAST ACTUAL READINGS	1	0	METER SERIAL #	T-039087163	METER TEST DATE	05/94							
	022005			06154	296	5	F	331	1		686					686			00000		1	HUGH N WILLIAMS		1				1
				07154	301	3*										06214			00000	1372	N	2825 N RED TAIL PL						
	PRIOR HISTORY		DATE READ	06154	DATE READ	05164	DATE READ	04154	DATE READ	03144	DATE READ	02154	DATE READ	01144	LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REG. #				CK DTE		
			CONS.	6	CONS.	48*	CONS.	14	CONS.	3	CONS.	4	CONS.	3	LAST ACTUAL READINGS	296	0	METER SERIAL #	X-046575686	METER TEST DATE								
	022203			06154	199	3	F	331	1		686					686		682-07114			1	WILLIAM J STONE		1				1
				07154	202	3*										06214			00000	690	N	2849 E RED TAIL CT						
	PRIOR HISTORY		DATE READ	06154	DATE READ	05164	DATE READ	04154	DATE READ	03144	DATE READ	02154	DATE READ	01144	LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REG. #				CK DTE		
			CONS.	6	CONS.	45*	CONS.	23	CONS.	5	CONS.	2	CONS.	3	LAST ACTUAL READINGS	199	0	METER SERIAL #	T-038047042	METER TEST DATE	08/93							
	022401			06154	327	12	F	331	1		938					1022			00000		1	RICHARD KINDER		1				1
				07154	339	3*										06214			00000	1960	N	2873 E RED TAIL CT						
	PRIOR HISTORY		DATE READ	06154	DATE READ	05164	DATE READ	04154	DATE READ	03144	DATE READ	02154	DATE READ	01144	LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REG. #				CK DTE		
			CONS.	14	CONS.	25	CONS.	11	CONS.	5	CONS.	7	CONS.	7	LAST ACTUAL READINGS	327	0	METER SERIAL #	X-046332281	METER TEST DATE								
	022609			06154				442	1										00000		6	TREASURE VALLEY VILLAGE		1	9			N
				07154		4*										06214			00000		N	COMMON AREA EAGLE CRK						
	PRIOR HISTORY		DATE READ	06154	DATE READ	05164	DATE READ	05134	DATE READ	03144	DATE READ	02154	DATE READ	01144	LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REG. #				CK DTE		
			CONS.	N	CONS.	N	CONS.	3583	CONS.		CONS.		CONS.		LAST ACTUAL READINGS		0	METER SERIAL #	X-000000000	METER TEST DATE								
	022807			06154	332	13	F	331	1		980					3626		3626-07154			1	TERENCE L MILLER		1				1
				07154	345	3*										06214			00000	980	N	1420 N EAGLE CREEK WY						
	PRIOR HISTORY		DATE READ	06154	DATE READ	05164	DATE READ	04154	DATE READ	03144	DATE READ	02154	DATE READ	01144	LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REG. #				CK DTE		
			CONS.	76*	CONS.	65*	CONS.	27*	CONS.	5	CONS.	8	CONS.	8	LAST ACTUAL READINGS	332	0	METER SERIAL #	X-046770440	METER TEST DATE								
	023003			06154	169	18	F	331	1		1190					1106			00000		1	MICHAEL K-JANET M OWYEN		1				1
				07154	187	3*										06214			00000	2296	N	1442 N EAGLE CREEK WY						
	PRIOR HISTORY		DATE READ	06154	DATE READ	05164	DATE READ	04154	DATE READ	03144	DATE READ	02154	DATE READ	01144	LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REG. #				CK DTE		
			CONS.	16	CONS.	16	CONS.	15	CONS.	13	CONS.	15	CONS.	13	LAST ACTUAL READINGS	169	0	METER SERIAL #	X-047119704	METER TEST DATE								
	023409			06154	124	10	F	331	1		854					1022		1022-07154			1	MIKE EHNINGER		1				1
				07154	134	3*										06214			00000	854	N	1486 N EAGLE CREEK WY						
	PRIOR HISTORY		DATE READ	06154	DATE READ	05164	DATE READ	04154	DATE READ	03144	DATE READ	02154	DATE READ	01144	LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REG. #				CK DTE		
			CONS.	14*	CONS.	10	CONS.	13*	CONS.	5	CONS.	5	CONS.	5	LAST ACTUAL READINGS	124	0	METER SERIAL #	X-046575677	METER TEST DATE								
	027608			06154	569	73	F	331	1		3500					4942			00000		1	DANIEL S GILKISON	$	1				1
				07154	642	3*										06214			00000	8442	N	1521 N TRAIL CREEK WY						
	PRIOR HISTORY		DATE READ	06154	DATE READ	05164	DATE READ	04154	DATE READ	03144	DATE READ	02154	DATE READ	01144	LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REG. #				CK DTE		
			CONS.	56	CONS.	41	CONS.	19	CONS.	10	CONS.	8	CONS.	3	LAST ACTUAL READINGS	569	0	METER SERIAL #	X-046770446	METER TEST DATE								

ACBS-21 5/78
FO.
HES DATA PRODS. INC.

GENERAL WATERWORKS
AUTOMATED CUSTOMER BILLING SYSTEM (495) EM2 INC. BOOK #056 BILL DATE 07/20/94 CUTOFF DATE 08/16/94 CYCLE *M* PAGE # 007

BILLING REGISTER

ACCT #	METER-OUT / METER-IN	DATES PREVIOUS / CURRENT	READINGS PREVIOUS / CURRENT	CURRENT BILLING INFORMATION: CONS. / # OF DAILS	UNIT	METER	REV	WAT TF / SEW TF	WATER COST / SEWER COST	CODE	OTHER CHARGE / OTHER CHARGE	CODE	OTHER CHARGE / OTHER CHARGE	LAST BILLING BALANCE / DATE	CREDIT	TOTAL PAID / NET ADJ.	DATE	LATEST DATE / NET	CURRENT GROSS / NET	CREDIT	CUSTOMER NAME / SERVICE ADDRESS	BILL CODES	# OF MINI-MUMS OR MAXI-MUMS	METER CONDITION	# OF BILLS	RETURN
027806		06154	285	27	F	331	1		1568					1946				00000			1 RICK EDVALSON		1			
		07154	312	3*										06214				00000	3514	N	1497 N TRAIL CREEK WY					
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144																			
	CONS.	36*	32	25	13	12	17																			
	LAST ACTUAL READ DATE																		06154	0	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REQ. #		CK DTE	
	LAST ACTUAL READINGS																		285	0	METER SERIAL # X-046794233		METER TEST DATE			
028002		06154	306	19	F	331	1		1232					2618		2618-07154					1 ERIC & KAREN JONES		1			
		07154	325	3*										06214				00000	1232	N	1465 N TRAIL CREEK WY					
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144																			
	CONS.	52*	38	40	12	15	15																			
	LAST ACTUAL READ DATE																		06154	0	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REQ. #		CK DTE	
	LAST ACTUAL READINGS																		306	0	METER SERIAL # X-046861273		METER TEST DATE			
028200		06154	299	10	F	331	1		854					1106				00000			1 DIANA CHERRY		1			
		07154	309	3*										06214				00000	1960	N	1443 N TRAIL CREEK WY					
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144																			
	CONS.	16	22	17	8	8	8																			
	LAST ACTUAL READ DATE																		06154	0	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REQ. #		CK DTE	
	LAST ACTUAL READINGS																		299	0	METER SERIAL # X-047084730		METER TEST DATE			
028416		06154	336	14	F	331	1		1022					1526		1526-07114					1 EARL T GLENN SR &		1			
		07154	350	3*										06214				00000	1022	N	1421 N TRAIL CREEK WY					
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144																			
	CONS.	26	24	22	10	9	8																			
	LAST ACTUAL READ DATE																		06154	0	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REQ. #		CK DTE	
	LAST ACTUAL READINGS																		336	0	METER SERIAL # X-046861511		METER TEST DATE			
028606		06154	209	10	F	331	1		854					3220		1358-07014					1 JEFF C-JODI L MCGUIRE		1			
		07154	219	3*										06214				00000	2716	N	3064 E RED TAIL AVE					
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144																			
	CONS.	34*	22	9	6	8	5																			
	LAST ACTUAL READ DATE																		06154	0	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REQ. #		CK DTE	
	LAST ACTUAL READINGS																		209	0	METER SERIAL # X-046862050		METER TEST DATE			
028804		06154	465	30	F	331	1		1694					2786		2786-07154					1 BRENT A-TINA N THOMPSON		1			
		07154	495	3*										06214				00000	1694	N	3040 E RED TAIL AVE					
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144																			
	CONS.	56*	37	11	13	12	10																			
	LAST ACTUAL READ DATE																		06154	0	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REQ. #		CK DTE	
	LAST ACTUAL READINGS																		465	0	METER SERIAL # X-046770419		METER TEST DATE			
029000		06154	362	10	F	331	1		854					1820		1820-07114					1 MARGARET JETERS		1			
		07154	372	3*										06214				00000	854	N	3016 E RED TAIL AVE					
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144																			
	CONS	33*	26	14	5	6	6																			
	LAST ACTUAL READ DATE																		06154	0	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REQ. #		CK DTE	
	LAST ACTUAL READINGS																		362	0	METER SERIAL # X-046770450		METER TEST DATE			
029208		06154	490	7	F	331	1		728					3178				00000			1 LANCE & LAURI CORPUS		1			
		07154	497	3*										06214				00000	3906	N	1402 N ECHO CREEK PL					
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144																			
	CONS.	33	22	17	4	5	4																			
	LAST ACTUAL READ DATE																		06154	0	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REQ. #		CK DTE	
	LAST ACTUAL READINGS																		490	0	METER SERIAL # X-046332285		METER TEST DATE			
029406		06154	252	48	F	331	1		2450					1610		1610-07114					1 PATRICK BALLARD $		1			
		07154	300	3*										06214				00000	2450	N	1414 N ECHO CREEK PL					
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144																			
	CONS.	28*	16	11	8	8	8																			
	LAST ACTUAL READ DATE																		06154	0	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REQ. #		CK DTE	
	LAST ACTUAL READINGS																		252	0	METER SERIAL # X-046770432		METER TEST DATE			
029604		06154	98	27	F	331	1		1568					1148		1148-07114					1 RON J & TERESA L GARNYS $		1			
		07154	125	3*										06214				00000	1568	N	1462 N ECHO CREEK PL					
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144																			
	CONS	17*	12*	9	5	6	7																			
	LAST ACTUAL READ DATE																		06154	0	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REQ. #		CK DTE	
	LAST ACTUAL READINGS																		98	0	METER SERIAL # X-046861515		METER TEST DATE			
029802		06154	211	10	F	331	1		854					2380		2380-07114					1 LEONARD EVANSON		1			
		07154	221	3*										06214				00000	854	N	1474 N ECHO CREEK PL					
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144																			
	CONS	22*	14	4	2	2	2																			
	LAST ACTUAL READ DATE																		06154	0	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REQ. #		CK DTE	
	LAST ACTUAL READINGS																		211	0	METER SERIAL # X-046332280		METER TEST DATE			
030008		06154	286	12	F	331	1		938					3290		3209-07154					1 JOHN W SIECKERT		1			
		07154	298	3*										06214				00000	1019	N	1486 N ECHO CREEK PL					
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144																			
	CONS	68*	47*	29*	13	14	13																			
	LAST ACTUAL READ DATE																		06154	0	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REQ. #		CK DTE	
	LAST ACTUAL READINGS																		286	0	METER SERIAL # R-046793765		METER TEST DATE			
030206		06154	311	11	F	331	1		896					1736		1736-07014					1 TERRY & CASSANDRE NEWSOM		1			
		07154	322	3*										06214				00000	896	N	1473 N ECHO CREEK PL					
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144																			
	CONS	31*	19	9	6	6	8																			
	LAST ACTUAL READ DATE																		06154	0	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REQ. #		CK DTE	
	LAST ACTUAL READINGS																		311	0	METER SERIAL # X-046770427		METER TEST DATE			
030404		06154	158	21	F	331	1		1316					322		322-07154					1 SUE SEXTON $		1			
		07154	179	3*										06214				00000	1316	N	1461 N ECHO CREEK PL					
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144																			
	CONS	10	14*	6*	6	5	5																			
	LAST ACTUAL READ DATE																		06154	0	SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REQ. #		CK DTE	
	LAST ACTUAL READINGS																		158	0	METER SERIAL # X-046770427		METER TEST DATE			

FOR... NO ACBS-21 5/78

HES DATA PRODS INC

GENERAL WATERWORKS
AUTOMATED CUSTOMER BILLING SYSTEM (195) EM2 INC.

BOOK #056 BILL DATE 07/20/94 CUTOFF DATE 08/16/94 CYCLE *M* PAGE # 008

BILLING REGISTER

NEW ACCT #	CUST CHECK	METER-OUT / METER-IN	DATES PREVIOUS / CURRENT	READINGS PREVIOUS / CURRENT	CONS # OF DIALS	CURRENT BILLING INFORMATION: UNIT, METER, REV, WAT TF, SEW TF, WATER COST / SEWER COST, CODE, OTHER CHARGE / OTHER CHARGE, CODE, OTHER CHARGE / OTHER CHARGE	LAST BILLING BALANCE / DATE	CR / DEBIT	TOTAL PAID / NET ADJ.	CR / DEBIT	LATEST DATE / DATE	CURRENT GROSS / NET	CREDIT	STATUS	CUSTOMER NAME / SERVICE ADDRESS	BILL CODES	# OF MINIMUMS OR MAXIMUMS	METER CONDITION	2	BOOKS	RETURN
030610			06154 / 07154	319 / 353	34 / 3*	F 331 1 1862	5446 / 06214		5446- / 00000		07154	1862		1	PAUL R GOOCH & / N1449 N ECHO CREEK PL		1			1	
PRIOR HISTORY			DATE READ 06154 / CONS. 56*	DATE READ 05164 / CONS. 53*		DATE READ 04154 / CONS. 40*	DATE READ 03144 / CONS. 9		DATE READ 02154 / CONS. 12		DATE READ 01144 / CONS 9	LAST ACTUAL READ DATE 06154 / LAST ACTUAL READINGS 319		SERVICE NUMBER 00000 / METER SERIAL # R-046793857	HEAT CODE S/A / METER TEST DATE	REMOTE REQ. #	CK DTE			
030800			06154 / 07154	468 / 478	10 / 3*	F 331 1 854	3374 / 06214		3374- / 00000		07154	854		1	PAUL D DLUGOSCH & / N1437 N ECHO CREEK WAY		1			1	
PRIOR HISTORY			DATE READ 06154 / CONS. 70*	DATE READ 05164 / CONS. 37		DATE READ 04154 / CONS. 39	DATE READ 03144 / CONS. 10		DATE READ 02154 / CONS. 9		DATE READ 01144 / CONS 7	LAST ACTUAL READ DATE 06154 / LAST ACTUAL READINGS 468		SERVICE NUMBER 00000 / METER SERIAL # X-046861512	HEAT CODE S/A / METER TEST DATE	REMOTE REQ. #	CK DTE			
031006			06154 / 07154	402 / 412	10 / 3*	F 331 1 854	1316 / 06214				00000	2170		1	CINDY WANG / N1425 N ECHO CREEK WAY		1			1	
PRIOR HISTORY			DATE READ 06154 / CONS. 21	DATE READ 05164 / CONS. 27		DATE READ 04154 / CONS. 19	DATE READ 03144 / CONS. 9		DATE READ 02154 / CONS. 12		DATE READ 01144 / CONS 13	LAST ACTUAL READ DATE 06154 / LAST ACTUAL READINGS 402		SERVICE NUMBER 00000 / METER SERIAL # X-046770447	HEAT CODE S/A / METER TEST DATE	REMOTE REQ. #	CK DTE			
31204			06154 / 07154	515 / 529	14 / 3*	F 331 1 1022	2954 / 06214		2954- / 00000		07114	1022		1	KEN R STODDARD / N1413 N ECHO CREEK PL		1			1	
PRIOR HISTORY			DATE READ 06154 / CONS. 60	DATE READ 05164 / CONS. 87*		DATE READ 04154 / CONS. 11	DATE READ 03144 / CONS. 8		DATE READ 02154 / CONS. 10		DATE READ 01144 / CONS 9	LAST ACTUAL READ DATE 06154 / LAST ACTUAL READINGS 515		SERVICE NUMBER 00000 / METER SERIAL # X-046770439	HEAT CODE S/A / METER TEST DATE	REMOTE REQ. #	CK DTE			
031402			06154 / 07154	709 / 750	41 / 3*	F 331 1 2156	2436 / 06214				00000	4592		1	ALAN LAMBERTON / N1401 N ECHO CREEK PL		1			1	
PRIOR HISTORY			DATE READ 06154 / CONS. 92*	DATE READ 05164 / CONS. 80*		DATE READ 04154 / CONS. 34	DATE READ 03144 / CONS. 10		DATE READ 02154 / CONS. 8		DATE READ 01144 / CONS 9	LAST ACTUAL READ DATE 06154 / LAST ACTUAL READINGS 709		SERVICE NUMBER 00000 / METER SERIAL # X-046770484	HEAT CODE S/A / METER TEST DATE	REMOTE REQ. #	CK DTE			
PRIOR HISTORY			DATE READ / CONS.	DATE READ / CONS.		DATE READ / CONS.	DATE READ / CONS.		DATE READ / CONS.		DATE READ / CONS	LAST ACTUAL READ DATE / LAST ACTUAL READINGS		SERVICE NUMBER / METER SERIAL #	HEAT CODE / METER TEST DATE	REMOTE REQ. #	CK DTE			
PRIOR HISTORY			DATE READ / CONS.	DATE READ / CONS		DATE READ / CONS.	DATE READ / CONS.		DATE READ / CONS.		DATE READ / CONS	LAST ACTUAL READ DATE / LAST ACTUAL READINGS		SERVICE NUMBER / METER SERIAL #	HEAT CODE / METER TEST DATE	REMOTE REQ. #	CK DTE			
PRIOR HISTORY			DATE READ / CONS.	DATE READ / CONS		DATE READ / CONS.	DATE READ / CONS.		DATE READ / CONS.		DATE READ / CONS	LAST ACTUAL READ DATE / LAST ACTUAL READINGS		SERVICE NUMBER / METER SERIAL #	HEAT CODE / METER TEST DATE	REMOTE REQ. #	CK DTE			
PRIOR HISTORY			DATE READ / CONS.	DATE READ / CONS		DATE READ / CONS.	DATE READ / CONS.		DATE READ / CONS.		DATE READ / CONS	LAST ACTUAL READ DATE / LAST ACTUAL READINGS		SERVICE NUMBER / METER SERIAL #	HEAT CODE / METER TEST DATE	REMOTE REQ. #	CK DTE			
PRIOR HISTORY			DATE READ / CONS.	DATE READ / CONS		DATE READ / CONS.	DATE READ / CONS.		DATE READ / CONS.		DATE READ / CONS	LAST ACTUAL READ DATE / LAST ACTUAL READINGS		SERVICE NUMBER / METER SERIAL #	HEAT CODE / METER TEST DATE	REMOTE REQ. #	CK DTE			
PRIOR HISTORY			DATE READ / CONS.	DATE READ / CONS		DATE READ / CONS.	DATE READ / CONS.		DATE READ / CONS.		DATE READ / CONS	LAST ACTUAL READ DATE / LAST ACTUAL READINGS		SERVICE NUMBER / METER SERIAL #	HEAT CODE / METER TEST DATE	REMOTE REQ. #	CK DTE			
PRIOR HISTORY			DATE READ / CONS.	DATE READ / CONS		DATE READ / CONS.	DATE READ / CONS.		DATE READ / CONS.		DATE READ / CONS	LAST ACTUAL READ DATE / LAST ACTUAL READINGS		SERVICE NUMBER / METER SERIAL #	HEAT CODE / METER TEST DATE	REMOTE REQ. #	CK DTE			
PRIOR HISTORY			DATE READ / CONS.	DATE READ / CONS		DATE READ / CONS.	DATE READ / CONS.		DATE READ / CONS.		DATE READ / CONS	LAST ACTUAL READ DATE / LAST ACTUAL READINGS		SERVICE NUMBER / METER SERIAL #	HEAT CODE / METER TEST DATE	REMOTE REQ. #	CK DTE			

FORM NO. ACBS-21 5/78

HCS DATA PROCESSING, INC.

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GENERAL WATERWORKS
AUTOMATED CUSTOMER BILLING SYSTEM 195) EM2 INC.
BILLING REGISTER

BOOK 055 BILL DATE 07/20/94 CUTOFF DATE 08/16/94 CYCLE *M* PAGE # 001

Lexington Hills

ACCT #	METER-OUT / METER-IN	DATES PREVIOUS / CURRENT	READINGS PREVIOUS / CURRENT	CURRENT BILLING INFORMATION: CONS # OF DIALS	MULT	SEW FACT	WATER COST / SEWER COST	OTHER CHARGE / OTHER CHARGE	LAST BILLING BALANCE / DATE	TOTAL PAID / NET ADJ.	LATEST DATE / DATE	CURRENT GROSS / NET	CUSTOMER NAME / SERVICE ADDRESS	MISC DATES	MISC NUMS	METER CONDITION	
000200		06154	83	13 F 332	1		980		854	854-	07154		1 LEXINGTON HILLS		$	1	1
		07154	96	3*					06214		00000		980 N 1815 E STONYBROOK CT				
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144		LAST ACTUAL READ DATE	06154	0 SERVICE NUMBER	00000 HEAT CODE	S/A-1 REMOTE REG #			CK DTE	
	CONS	10*	9*	3	3	3	2		LAST ACTUAL READINGS	83	0 METER SERIAL #	X-045196083 METER TEST DATE					
000408		06154	171	10 F 331	1		854		770	770-	07154		1 KIPTON CAWTHRA			1	1
		07154	181	3*					06214		00000		854 N 1759 E STONYBROOK CT				
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144		LAST ACTUAL READ DATE	06154	0 SERVICE NUMBER	00000 HEAT CODE	S/A-1 REMOTE REG #			CK DTE	
	CONS	8	10	14*	8	10	9		LAST ACTUAL READINGS	171	0 METER SERIAL #	X-046332276 METER TEST DATE					
000606		06154	153	15 F 331	1		1064		812	812-	07014		1 ROY BARATA		$	1	
		07154	168	3*					06214		00000		1064 N 1745 E STONYBROOK CT				
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144		LAST ACTUAL READ DATE	06154	0 SERVICE NUMBER	00000 HEAT CODE	S/A-1 REMOTE REG #			CK DTE	
	CONS	9	8	12*	5	5	5		LAST ACTUAL READINGS	153	0 METER SERIAL #	X-046332337 METER TEST DATE					
000804		06154	220	15 F 331	1		1064		1362-		00000		1 KIMBELL D GOURLEY			1	1
		07154	235	3*					06214		00000		298 N 1731 E STONYBROOK CT				
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144		LAST ACTUAL READ DATE	06154	0 SERVICE NUMBER	00000 HEAT CODE	S/A-1 REMOTE REG #			CK DTE	
	CONS	18	19	21	16	17	21		LAST ACTUAL READINGS	220	0 METER SERIAL #	X-047119696 METER TEST DATE					
001000		06154	194	7 F 331	1		728		686	686-	07154		1 BRIAN SEIBERT			1	1
		07154	201	3*					06214		00000		728 N 1717 E STONYBROOK CT				
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144		LAST ACTUAL READ DATE	06154	0 SERVICE NUMBER	00000 HEAT CODE	S/A-1 REMOTE REG #			CK DTE	
	CONS	6	6	8	7	7	21		LAST ACTUAL READINGS	194	0 METER SERIAL #	X-046332339 METER TEST DATE					
001208		06154	179	11 F 331	1		896		854	854-	07154		1 BLAKE WATSON			1	1
		07154	190	3*					06214		00000		896 N 1703 E STONYBROOK CT				
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144		LAST ACTUAL READ DATE	06154	0 SERVICE NUMBER	00000 HEAT CODE	S/A-1 REMOTE REG #			CK DTE	
	CONS	10	12	12	8	11	10		LAST ACTUAL READINGS	179	0 METER SERIAL #	X-046332364 METER TEST DATE					
001406		06154	179	13 F 331	1		980		980	980-	07114		1 GARY A SIEGERT			1	1
		07154	192	3*					06214		00000		980 N 1689 E STONYBROOK CT				
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144		LAST ACTUAL READ DATE	06154	0 SERVICE NUMBER	00000 HEAT CODE	S/A-1 REMOTE REG #			CK DTE	
	CONS	13	15	12	10	12	11		LAST ACTUAL READINGS	179	0 METER SERIAL #	X-046332328 METER TEST DATE					
001604		06154	211	18 F 331	1		1190		980	980-	07114		1 GARY W GEAR		$	1	1
		07154	229	3*					06214		00000		1190 N 1675 E STONYBROOK CT				
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144		LAST ACTUAL READ DATE	06154	0 SERVICE NUMBER	00000 HEAT CODE	S/A-1 REMOTE REG #			CK DTE	
	CONS	13	12	10	7	10	9		LAST ACTUAL READINGS	211	0 METER SERIAL #	X-046332279 METER TEST DATE					
001802		06154	323	26 F 331	1		1526		2590	1400-	07014		1 BEN & ELAINE TYSON			1	1
		07154	349	3*					06214		00000		2716 N 1661 E STONYBROOK CT				
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144		LAST ACTUAL READ DATE	06154	0 SERVICE NUMBER	00000 HEAT CODE	S/A-1 REMOTE REG #			CK DTE	
	CONS	18	23	16	11	14	13		LAST ACTUAL READINGS	323	0 METER SERIAL #	X-046332269 METER TEST DATE					
002008		06154	343	19 F 331	1		1232		1106		00000		1 JAMES P O'DONNELL			1	1
		07154	362	3*					06214		00000		2338 N 1660 E STONYBROOK CT				
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144		LAST ACTUAL READ DATE	06154	0 SERVICE NUMBER	00000 HEAT CODE	S/A-1 REMOTE REG #			CK DTE	
	CONS	16	17	14	14	19	21		LAST ACTUAL READINGS	343	0 METER SERIAL #	X-045496081 METER TEST DATE					
002206		06154	298	13 F 331	1		980		980		00000		1 DAVID & SUZI BUTZIER			1	1
		07154	311	3*					06214		00000		1960 N 1684 E STONYBROOK CT				
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144		LAST ACTUAL READ DATE	06154	0 SERVICE NUMBER	00000 HEAT CODE	S/A-1 REMOTE REG #			CK DTE	
	CONS	13	10	6	6	7	9		LAST ACTUAL READINGS	298	0 METER SERIAL #	X-046079881 METER TEST DATE					
002404		06154	289	27 F 331	1		1568		2086		00000		1 BRYCE & VICKY MCFADDEN		$	1	1
		07154	316	3*					06214		00000		3654 N 1708 E STONYBROOK CT				
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144		LAST ACTUAL READ DATE	06154	0 SERVICE NUMBER	00000 HEAT CODE	S/A-1 REMOTE REG #			CK DTE	
	CONS	15	14	12	12	13	12		LAST ACTUAL READINGS	289	0 METER SERIAL #	X-046079885 METER TEST DATE					
002602		06154	192	24 F 331	1		1442		1064	1064-	07114		1 ANDREW M SPENCER &		$	1	1
		07154	216	3*					06214		00000		1442 N 1732 E STONYBROOK CT				
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144		LAST ACTUAL READ DATE	06154	0 SERVICE NUMBER	00000 HEAT CODE	S/A-1 REMOTE REG #			CK DTE	
	CONS	15	15	20	10	13	13		LAST ACTUAL READINGS	192	0 METER SERIAL #	X-046332306 METER TEST DATE					
002800		06154	222	11 F 331	1		896		728	728-	07114		1 KENNETH P SMITH			1	1
		07154	233	3*					06214		00000		896 N 1756 E STONYBROOK CT				
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144		LAST ACTUAL READ DATE	06154	0 SERVICE NUMBER	00000 HEAT CODE	S/A-1 REMOTE REG #			CK DTE	
	CONS	7	10	5	7	7	7		LAST ACTUAL READINGS	222	0 METER SERIAL #	X-045196082 METER TEST DATE					

Nov 8 1995

FORM NO. ACBS-21 5/78
HES DATA PRODS. INC.

GENERAL WATERWORKS
AUTOMATED CUSTOMER BILLING SYSTEM (195) EM2 INC.
BILLING REGISTER

BOOK #055 BILL DATE 07/20/94 CUTOFF DATE 08/16/94 CYCLE *M* PAGE # 002

ACCT / METER	DATES READ: CURRENT	DATES READ: PREVIOUS	CONS: # OF DIALS	F	B	M	E	S	WAT	CURRENT BILLING INFORMATION: WATER COST / SEWER COST	C	OTHER CHARGE / OTHER CHARGE	C	OTHER CHARGE / OTHER CHARGE	LAST BILLING: BALANCE / DATE	TOTAL PAID / NET ADJ.	LATEST: DATE / DATE	CURRENT: GROSS / NET	CUSTOMER NAME / SERVICE ADDRESS	CODE	RT	BOOK SEQUENCE
003204	06154	21	2	F	3	3	1	1		686					686	686-	07154		1 DLB HOMES	$	1	1
	07154	23	3*												06214		00000		686 N1405 N PARKFOREST			
PRIOR HISTORY	06154	05164								04154		00000		00000	00000	00000		LAST ACTUAL READ DATE 06154	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG. #	CK DTE
CONS		CONS.								Z		CONS		CONS		CONS		LAST ACTUAL READINGS 21	0 METER SERIAL # B-091948827	METER TEST DATE 04/94		
003402	06154	188	11	F	3	3	1	1		896					854	854-	07154		1 DANIEL C LANCASTER		1	1
	07154	199	3*												06214		00000		896 N1439 N PARKFOREST WAY			
PRIOR HISTORY	06154	05164								04154		03144		02154	02154	01144		LAST ACTUAL READ DATE 06154	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG. #	CK DTE
CONS	10	CONS.	12							11		8		16	CONS	18		LAST ACTUAL READINGS 188	0 METER SERIAL # X-047084702	METER TEST DATE		
003618	06154	60	7	F	3	3	1	1		728					728	728-	07114		1 R DOUGLAS STEWART		1	
	07154	67	3*												06214		00000		728 N1473 N PARKFOREST WAY			
PRIOR HISTORY	06154	05164								04154		03144		02154	02154	01144		LAST ACTUAL READ DATE 06154	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG. #	CK DTE
CONS	7	CONS.	2							8		5		6	CONS	6		LAST ACTUAL READINGS 60	0 METER SERIAL # X-046861728	METER TEST DATE		
003808	06154	80	5	F	3	3	1	1		686					686	686-	07014		1 LOUIS M BANFILL		1	1
	07154	85	3*												06214		00000		686 N1507 N PARKFOREST WAY			
PRIOR HISTORY	06154	05164								04154		03144		02154	02154	01144		LAST ACTUAL READ DATE 06154	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG. #	CK DTE
CONS	6	CONS.	5							5		5		5	CONS.	4		LAST ACTUAL READINGS 80	0 METER SERIAL # X-047084714	METER TEST DATE		
004004	06154	133	13	F	3	3	1	1		980					66	5000-	07114		1 BONNIE A-PHILIP J DRICK		1	1
	07154	146	3*												06214		00000		3954-N1541 N PARKFOREST WAY			
PRIOR HISTORY	06154	05164								04154		03144		02154	02154	01144		LAST ACTUAL READ DATE 06154	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG. #	CK DTE
CONS	13	CONS.	11							11		8		11	CONS	11		LAST ACTUAL READINGS 133	0 METER SERIAL # X-046332318	METER TEST DATE		
004210	06154	63	13	F	3	3	1	1		980					190-		00000		1 WHITNEY V LIPPINCOTT &	$	1	1
	07154	76	3*												06214		00000		790 N1701 E BRUNSWICK DR			
PRIOR HISTORY	06154	05164								04154		03144		02154	02154	01144		LAST ACTUAL READ DATE 06154	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG. #	CK DTE
CONS	8	CONS.	9*							7*		6		8*	CONS	6*		LAST ACTUAL READINGS 63	0 METER SERIAL # X-047084724	METER TEST DATE		
004400	06154	223	9	F	3	3	1	1		812					938	938-	07154		1 GEORGE SKINNER		1	1
	07154	232	3*												06214		00000		812 N1659 E BRUNSWICK			
PRIOR HISTORY	06154	05164								04154		03144		02154	02154	01144		LAST ACTUAL READ DATE 06154	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG. #	CK DTE
CONS	12	CONS.	16							15		13		15	CONS.	16		LAST ACTUAL READINGS 223	0 METER SERIAL # X-046770426	METER TEST DATE		
004608	06154	260	5	F	3	3	1	1		686					812	812-	07114		1 STEVE & NERISSA PLINE		1	1
	07154	265	3*												06214		00000		686 N1617 E BRUNSWICK			
PRIOR HISTORY	06154	05164								04154		03144		02154	02154	01144		LAST ACTUAL READ DATE 06154	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG. #	CK DTE
CONS	9	CONS.	9							17*		8		9	CONS.	7		LAST ACTUAL READINGS 260	0 METER SERIAL # X-045196087	METER TEST DATE		
004806	06154	109	8	F	3	3	1	1		770					1414	1414-	07154		1 THOMAS C REIMBOLT		1	1
	07154	117	3*												06214		00000		770 N1618 E BRUNSWICK			
PRIOR HISTORY	06154	05164								04154		03144		02154	02154	01144		LAST ACTUAL READ DATE 06154	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG. #	CK DTE
CONS	7	CONS.	6							8		6		7	CONS.	7		LAST ACTUAL READINGS 109	0 METER SERIAL # X-046770426	METER TEST DATE		
005001	06154	143	7	F	3	3	1	1		728					770		00000		1 KENT TAKESHITA		1	1
	07154	150	3*												06214		00000		1498 N1660 E BRUNSWICK			
PRIOR HISTORY	06154	05164								04154		03144		02154	02154	01144		LAST ACTUAL READ DATE 06154	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG. #	CK DTE
CONS	8	CONS.	8							9		8		9	CONS.	11		LAST ACTUAL READINGS 143	0 METER SERIAL # X-046332307	METER TEST DATE		
005209	06154	138	9	F	3	3	1	1		812					686		00000		1 BOB SUMII		1	1
	07154	147	3*												06214		00000		1498 N1702 E BRUNSWICK			
PRIOR HISTORY	06154	05164								04154		03144		02154	02154	01144		LAST ACTUAL READ DATE 06154	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG. #	CK DTE
CONS	6	CONS.	7							6		5		6	CONS.	6		LAST ACTUAL READINGS 138	0 METER SERIAL # X-047010381	METER TEST DATE		
005407	06154	14	1	F	3	3	1	1		686					1372		00000		1 JOEL C HALL		1	1
	07154	15	3*												06214		00000		2058 N1725 E CHATHAM			
PRIOR HISTORY	06154	05164								04154		03144		02154	02154	01144		LAST ACTUAL READ DATE 06154	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG. #	CK DTE
CONS	1	CONS.	3*							1		3*		2	CONS.	4*		LAST ACTUAL READINGS 14	0 METER SERIAL # T-038181583	METER TEST DATE 10/93		
006207	06154	3		F	3	3	1	1		686					69	69-	07154		1 TOM REIMBOLT		1	1
	07154	3	3*												06214		00000		686 N1670 E CHATHAM CT			
PRIOR HISTORY	06154	05164								04154		03144		02184	00000	00000		LAST ACTUAL READ DATE 06154	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG. #	CK DTE
CONS	1	CONS.	1							1		CONS		CONS.	Z	CONS		LAST ACTUAL READINGS 3	0 METER SERIAL # T-038988022	METER TEST DATE 02/94		
006603	06154		3	F	3	3	1	1		686					686	686-	07154		1 VAN HEES HOMES	$	1	1
	07154	3	3*												06214		00000		686 N1724 E CHATHAM CT			
PRIOR HISTORY	06154	05164								05114		00000		00000	00000	00000		LAST ACTUAL READ DATE 06154	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG. #	CK DTE
CONS	*	CONS.	3							Z		CONS		CONS		CONS.		LAST ACTUAL READINGS	0 METER SERIAL # T-039087075	METER TEST DATE 05/94		

FORM NO. ACBS-21 5/78
HES DATA PRODS. INC.

AUTOMATED CUSTOMER BILLING SYSTEM (195) EM2 INC. BOOK #055 BILL DATE 07/20/94 CUTOFF DATE 08/16/94 CYCLE *M* PAGE # 003

BILLING REGISTER

ACCT #	METER-OUT / METER-IN	DATES: PREVIOUS / CURRENT	READINGS: PREVIOUS / CURRENT	CONS: PREVIOUS / # OF DAILS	CURRENT BILLING INFORMATION: WATER COST / SEWER COST / OTHER CHARGE / OTHER CHARGE	LAST BILLING: BALANCE / DATE	TOTAL PAID / NET ADJ.	LATEST DATE	CURRENT: GROSS / NET	CUSTOMER NAME / SERVICE ADDRESS	METER LOCATION
007007		06154	3	4 F 331 1	686	686	686-	07154		1 BASTIAN CONSTRUCTION	$ 1
		07154	7	3*		06214		00000	686 N	1725 E DAYLESFORD	
PRIOR HISTORY	DATE READ	06154	05164	05044	00000	00000	00000		LAST ACTUAL READ DATE	06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. #	CK DTE
	CONS	3	3	Z					LAST ACTUAL READINGS	3 0 METER SERIAL # T-039087050 METER TEST DATE 05/94	
007809		06154	13	1 F 331 1	686	728	728-	07154		1 WILDWOOD HOMES	1
		07154	14	3*		06214		00000	686 N	1662 E DAYLESFORD	
PRIOR HISTORY	DATE READ	06154	05164	04154	04064	00000	00000		LAST ACTUAL READ DATE	06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. #	CK DTE
	CONS	7*	6*	3	Z				LAST ACTUAL READINGS	13 0 METER SERIAL # T-038988312 METER TEST DATE 04/94	
008013		06154	165	15 F 331 1	1064	938		00000		1 PAUL S WELKER &	$ 1 1
		07154	180	3*		06214		00000	2002 N	1732 E DAYLESFORD CT	
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	03084	02044		LAST ACTUAL READ DATE	06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. #	CK DTE
	CONS	12	14*	13*	33	53	Z		LAST ACTUAL READINGS	165 0 METER SERIAL # R-042697600 METER TEST DATE 02/94	
008203		06154	11	4 F 331 1	686	1852	1852-	07114		1 C & H CONSTRUCTION	1 1
		07154	15	3*		06214		00000	686 N	1746 E DAYLESFORD CT	
PRIOR HISTORY	DATE READ	06154	05164	04154	03234	00000	00000		LAST ACTUAL READ DATE	06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. #	CK DTE
	CONS	4	6*	13	Z				LAST ACTUAL READINGS	11 1 METER SERIAL # T-038988186 METER TEST DATE 03/94	
008419		06154	78	9 F 331 1	812	126-		00000		1 MICHAEL D VELTROP &	1 1
		07154	87	3*		06214		00000	686 N	1781 E HIGHGATE CT	
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144		LAST ACTUAL READ DATE	06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. #	CK DTE
	CONS	8	10	11	5	8	6		LAST ACTUAL READINGS	78 0 METER SERIAL # T-038046950 METER TEST DATE	
008609		06154	9	21 F 331 1	1316	1456		00000		1 U BAR K & ASSOCIATES	$ 1 1
		07154	30	3*		06214		00000	2772 N	1725 E HIGHGATE CT	
PRIOR HISTORY	DATE READ	06154	05164	04154	00000	00000	00000		LAST ACTUAL READ DATE	06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. #	CK DTE
	CONS	8*	1	Z					LAST ACTUAL READINGS	9 0 METER SERIAL # T-038988337 METER TEST DATE 04/94	
008807		07134	4	331 1		2012		00000		6 J BAR K & ASSOC	1 B*
		07154	4	3*		07144		00000	2012 N	1657 E HIGHGATE CT	
PRIOR HISTORY	DATE READ	07134	05164	04154	03144	00000	00000		LAST ACTUAL READ DATE	06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. #	CK DTE
	CONS	23	2	*	Z				LAST ACTUAL READINGS	4 0 METER SERIAL # T-038987829 METER TEST DATE 03/94	
009607		06154	4	F 331 1	686	1372		00000		1 U BAR K & ASSOC	1 1
		07154	4	3*		06214		00000	2058 N	1652 E HIGHGATE	
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	03074	00000		LAST ACTUAL READ DATE	06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. #	CK DTE
	CONS	1		3	3	Z			LAST ACTUAL READINGS	4 0 METER SERIAL # T-038988121 METER TEST DATE 03/94	
009813		06154	54	9 F 331 1	812	1792	1792-	07114		1 MARY K CLARK &	1 1
		07154	63	3*		06214		00000	812 N	1700 E HIGHGATE CT	
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144		LAST ACTUAL READ DATE	06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. #	CK DTE
	CONS	10*	12*	13*	8*	63	2		LAST ACTUAL READINGS	54 0 METER SERIAL # T-038473129 METER TEST DATE 10/93	
010407		06154	97	17 F 331 1	1148	1274	1274-	07154		1 GARY D CHRISTENSEN &	1 1
		07154	114	3*		06214		00000	1148 N	1768 E HIGHGATE CT	
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144		LAST ACTUAL READ DATE	06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. #	CK DTE
	CONS	20*	21*	17*	11*	13*	6*		LAST ACTUAL READINGS	97 0 METER SERIAL # T-038661679 METER TEST DATE 11/93	
011009		06154	65	F 331 1	686	2058	2058-	07114		1 C & H CONSTRUCTION	1 1
		07154	65	3*		06214		00000	686 N	1782 E HIGHGATE CT	
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144		LAST ACTUAL READ DATE	06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. #	CK DTE
	CONS	1							LAST ACTUAL READINGS	65 0 METER SERIAL # X-009170207 METER TEST DATE	
011405		06154	17	6 F 331 1	686	770	770-	07154		1 BASTIAN CONSTRUCTION	$ 1 1
		07154	23	3*		06214		00000	686 N	1935 N BELGRAVE	
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01184		LAST ACTUAL READ DATE	06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. #	CK DTE
	CONS	8*	1	5*	3	3	Z		LAST ACTUAL READINGS	17 0 METER SERIAL # T-038837725 METER TEST DATE 01/94	
011801		06154	3	3 F 331 1	686	686	686-	07154		1 WHITMIRE CONSTRUCTION	$ 1 1
		07154	6	3*		06214		00000	686 N	2023 N BELGRAVE WAY	
PRIOR HISTORY	DATE READ	06154	05164	04154	04084	00000	00000		LAST ACTUAL READ DATE	06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. #	CK DTE
	CONS	1	2	3	Z				LAST ACTUAL READINGS	3 0 METER SERIAL # T-038988334 METER TEST DATE 04/94	
012619		06154	58	15 F 331 1	1064	812	812-	07154		1 SCOTT L YEARSLEY &	$ 1 1
		07154	73	3*		06214		00000	1064 N	1916 N BELGRAVE WAY	
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144		LAST ACTUAL READ DATE	06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. #	CK DTE
	CONS	9*	12*	11*	8*	12*	33		LAST ACTUAL READINGS	58 0 METER SERIAL # T-038181835 METER TEST DATE	

NOV 08 1995

FORM NO. ACBS-21 5/78

HES DATA PRODS. INC.

AUTOMATED CUSTOMER BILLING SYSTEM 195) EM2 INC. BOOK #055 BILL DATE 07/20/94 CUTOFF DATE 08/16/94 CYC E *M* PAGE # 004

BILLING REGISTER

SEQ	ACCT #	CYC	METER OUT / METER IN	DATES PREVIOUS / CURRENT	READINGS PREVIOUS / CURRENT	CONS / # OF DIALS	CURRENT BILLING INFORMATION: T	V	M	L	F	C	WATER COST / SEWER COST	CODE	OTHER CHARGE / OTHER CHARGE	CODE	OTHER CHARGE / OTHER CHARGE	LAST BILLING BALANCE / DATE	T	TOTAL PAID / NET ADJ.	LATEST DATE	CURRENT GROSS / NET	CUSTOMER NAME / SERVICE ADDRESS	ACT MTR	METER
	012809			06304	75		331	1										1155		812-07114			3SHERE & MICHAEL N BURKE	1	B*
				07154		3*												07114			00000	343	N1895 N PARKFOREST WAY		
	PRIOR HISTORY		DATE READ	06304	05164	04154	03144	02154	01144														LAST ACTUAL READ DATE 06154	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
			CONS	123	12	10	9	24*	5														LAST ACTUAL READINGS 72	0 METER SERIAL # T-038661834	METER TEST DATE 11/93	
	*012817			06304	75	5F	331	1	427												00000		1LEE & LUCY M DEHEER	P	1	
				07154	80	3*												00000			00000	427	N1895 N PARKFOREST WAY	15		
	PRIOR HISTORY		DATE READ	06304	05164	04154	03144	02154	01144														LAST ACTUAL READ DATE 06304	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
			CONS	123	12	10	9	24*	5														LAST ACTUAL READINGS 75	0 METER SERIAL # T-038661834	METER TEST DATE 11/93	
	013005			06154	78	8F	331	1	770									686		686-07114			1JOHN W TAYLOR		1	
				07154	86	3*												06214			00000	770	N1917 N PARKFOREST WAY			
	PRIOR HISTORY		DATE READ	06154	05164	04154	03144	02154	01144														LAST ACTUAL READ DATE 06154	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
			CONS	4	8	12*	4	5	7														LAST ACTUAL READINGS 78	0 METER SERIAL # X-047010384	METER TEST DATE	
	013617			06154	43	10F	331	1	854									854		854-07014			1LOREN W LIVERMORE		1	
				07154	53	3*												06214			00000	854	N1946 N RADCLIFFE CT			
	PRIOR HISTORY		DATE READ	06154	05164	04154	03144	02154	01144														LAST ACTUAL READ DATE 06154	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
			CONS	10*	7	9*	6	7*	N														LAST ACTUAL READINGS 43	0 METER SERIAL # T-038661805	METER TEST DATE 11/93	
	013807			06154	32	19F	331	1	1232									2002		938-07014			1ROY R & DIANE L ROSS	$	1	
				07154	51	3*												06214			00000	2296	N1922 N RADCLIFFE PL			
	PRIOR HISTORY		DATE READ	06154	05164	04154	03214	00000	00000														LAST ACTUAL READ DATE 06154	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
			CONS	15*	12*	53	Z																LAST ACTUAL READINGS 32	0 METER SERIAL # T-038988195	METER TEST DATE 03/94	
	014516			06154	31	9F	331	1	812									812			00000		1LOUIS W DEWITT	$	1	
				07154	40	3*												06214			00000	1624	N1972 N PARKFOREST WY			
	PRIOR HISTORY		DATE READ	06154	05164	04154	03144	02154	01144														LAST ACTUAL READ DATE 06154	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
			CONS	9*	7*	7*	3*	4	N														LAST ACTUAL READINGS 31	0 METER SERIAL # T-038473127	METER TEST DATE 10/93	
	014607			06154	2	1F	331	1	686									686		686-07154			1LEIGHTON ENTERPRISES	$	1	
				07154	3	3*												06214			00000	686	N1874 N RADCLIFFE WAY			
	PRIOR HISTORY		DATE READ	06154	05164	04154	03144	03084	00000														LAST ACTUAL READ DATE 06154	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
			CONS	1	1	*	3	7															LAST ACTUAL READINGS 2	0 METER SERIAL # T-038988117	METER TEST DATE 03/94	
	014805			06154	158	F	331	1	686									686			00000		1DWIGHT L COOMBS		1	
				07154	158	3*												06214			00000	1372	N1850 N RADCLIFFE WAY			
	PRIOR HISTORY		DATE READ	06154	05164	04154	03144	02154	01144														LAST ACTUAL READ DATE 06154	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
			CONS	1	6*	1		2	1														LAST ACTUAL READINGS 158	0 METER SERIAL # X-043147302	METER TEST DATE	
	015018			06154	379	12F	331	1	938									2380			00000		1RONALD G HAVLICK &		1	
				07154	391	3*												06214			00000	3318	N1826 N RADCLIFFE WAY			
	PRIOR HISTORY		DATE READ	06154	05164	04154	03144	02154	02114														LAST ACTUAL READ DATE 06154	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
			CONS	14	22	13	9	N	13														LAST ACTUAL READINGS 379	0 METER SERIAL # X-046794305	METER TEST DATE	
	015216			06154	82	15F	331	1	1064									2506		1484-07014			1RANDALL G MENDIOLA &	$	1	
				07154	97	3*												06214			00000	2086	N1802 N RADCLIFFE WY			
	PRIOR HISTORY		DATE READ	06154	05164	04154	03144	02154	01144														LAST ACTUAL READ DATE 06154	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
			CONS	14*	25*	9*	6	7	8*														LAST ACTUAL READINGS 82	0 METER SERIAL # T-038473165	METER TEST DATE 09/93	
	015406			06154	230	27F	331	1	1568									4382			00000		1KEN M GORMAN		1	
				07154	257	3*												06214			00000	5950	N2040 E HOLGATE CT			
	PRIOR HISTORY		DATE READ	06154	05164	04154	03144	02154	01144														LAST ACTUAL READ DATE 06154	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
			CONS	94*	65*	32*	13*	18*	8*														LAST ACTUAL READINGS 230	0 METER SERIAL # T-038473174	METER TEST DATE 12/93	
	015612			06154	93	9F	331	1	812									812		812-07114			1DONALD R SHURTS &		1	
				07154	102	3*												06214			00000	812	N2062 HOLGATE CT			
	PRIOR HISTORY		DATE READ	06154	05164	04154	03144	02154	01144														LAST ACTUAL READ DATE 06154	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
			CONS	9	9	8	6	8	7														LAST ACTUAL READINGS 93	0 METER SERIAL # X-047084713	METER TEST DATE	
	015810			06154	58	7F	331	1	728									728		728-07114			1HARRY H & RYAN E JANZEN	$	1	
				07154	65	3*												06214			00000	728	N2073 E HOLGATE CT			
	PRIOR HISTORY		DATE READ	06154	05164	04154	03144	02154	01144														LAST ACTUAL READ DATE 06154	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
			CONS	7*	6*	7*	5*	5*	5*														LAST ACTUAL READINGS 58	0 METER SERIAL # T-038476562	METER TEST DATE 09/93	
	016008			07064	11		331	1										1233			00000		3POND CONSTRUCTION		1	B*
				07154		3*												07114			00000	1233	N2061 E HOLGATE CT			
	PRIOR HISTORY		DATE READ	07064	05204	00000	00000	00000	00000														LAST ACTUAL READ DATE 05204	0 SERVICE NUMBER 00000	HEAT CODE S/A-1	REMOTE REG #	CK DTE
			CONS	113	7																		LAST ACTUAL READINGS	0 METER SERIAL # T-039087158	METER TEST DATE 05/94	

NOV 0 8 1994

FORM NO. AC85-21 5/78

HES DATA PRODS INC.

GENERAL WATERWORKS
AUTOMATED CUSTOMER BILLING SYSTEM (195) EM2 INC.

BOOK #055 BILL DATE 07/20/94 CUTOFF DATE 08/16/94 CYCLE *M* PAGE # 005

BILLING REGISTER

SEQ	ACCT #	CODE	METER-OUT / METER-IN	DATES: PREVIOUS / CURRENT	READINGS: PREVIOUS / CURRENT	CONS / # OF DAYS	CURRENT BILLING INFORMATION: CODE	METER SIZE	RATE CLASS	SEWER TYPE	WATER COST / SEWER COST	CODE	OTHER CHARGE / OTHER CHARGE	CODE	OTHER CHARGE / OTHER CHARGE	LAST BILLING: DATE	BALANCE	TOTAL PAID / NET ADJ.	LATEST: DATE	CURRENT: GROSS / NET	CUSTOMER NAME / SERVICE ADDRESS	BILL CYCLE	FOR MONTH OF MAINT.	METER LOCATION	SEQ
*	016016			07064 / 07154	11 / 11	F 3 / 3*		3	3	1	206					00000 / 00000			00000 / 00000	206	1 ROBERT L CANDLER / N2061 E HOLGATE CT	P / 21	1			1
			PRIOR HISTORY	DATE READ 07064 / CONS. 113	DATE READ 05204 / CONS. Z	DATE READ 00000 / CONS.							DATE READ 00000 / CONS.		DATE READ 00000 / CONS.			DATE READ 00000 / CONS.		LAST ACTUAL READ DATE 07064 0 SERVICE NUMBER 00000 HEAT CODE S/A 1 REMOTE REG. # CK DTE LAST ACTUAL READINGS 11 0 METER SERIAL # T-039087158 METER TEST DATE 05/94					
	016206			06154 / 07154	/	3*		3	3	1						06214 / 06214	686	686	06304 / 00000		3 MERIT HOMES / N2039 E HOLGATE		1			N
			PRIOR HISTORY	DATE READ 06154 / CONS. N	DATE READ 05164 / CONS. N	DATE READ 05134 / CONS. 63							DATE READ 03144 / CONS. 3		DATE READ 03094 / CONS. Z			DATE READ 00000 / CONS.		LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A 1 REMOTE REG. # CK DTE LAST ACTUAL READINGS 0 METER SERIAL # T-038988119 METER TEST DATE 03/94					
	016214			06154 / 07154	24 / 37	13 F 3 / 3*		3	3	1	980					1190 / 06214			00000 / 00000	2170	1 TROY M HENINGER & / N2039 E HOLGATE	$	1			1
			PRIOR HISTORY	DATE READ 06154 / CONS. 18*	DATE READ 05164 / CONS. N	DATE READ 05134 / CONS. 63							DATE READ 03144 / CONS. 3		DATE READ 03094 / CONS. Z			DATE READ 00000 / CONS.		LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A 1 REMOTE REG. # CK DTE LAST ACTUAL READINGS 24 0 METER SERIAL # T-038988119 METER TEST DATE 03/94					
	016412			06154 / 07154	42 / 53	11 F 3 / 3*		3	3	1	896					854 / 06214		854	07114 / 00000	896	1 DAVID R EAGLETON & / N2017 E HOLGATE		1			1
			PRIOR HISTORY	DATE READ 06154 / CONS. 10	DATE READ 05164 / CONS. 12	DATE READ 04154 / CONS. 17*							DATE READ 03144 / CONS. N		DATE READ 03114 / CONS. 33			DATE READ 01244 / CONS. Z		LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A 1 REMOTE REG. # CK DTE LAST ACTUAL READINGS 42 0 METER SERIAL # T-038837719 METER TEST DATE 01/94					
	016610			06154 / 07154	39 / 53	14 F 3 / 3*		3	3	1	1022					686 / 06214		686	07154 / 00000	1022	1 MING & YUEHJEN KUO / N1730 N RADCLIFFE	$	1			1
			PRIOR HISTORY	DATE READ 06154 / CONS. 1	DATE READ 05164 / CONS. 3	DATE READ 05124 / CONS. 13							DATE READ 03144 / CONS.		DATE READ 02154 / CONS.			DATE READ 01144 / CONS. 1		LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A 1 REMOTE REG. # CK DTE LAST ACTUAL READINGS 39 0 METER SERIAL # T-038047050 METER TEST DATE					
	016818			06154 / 07154	12 / 12	F 3 / 3*		3	3	1	686					686 / 06214		686	07154 / 00000	686	1 U MAX LARSON / N1706 N RADCLIFFE WAY		1			1
			PRIOR HISTORY	DATE READ 06154 / CONS.	DATE READ 05164 / CONS. 1	DATE READ 04154 / CONS.							DATE READ 03144 / CONS.		DATE READ 02154 / CONS. 12			DATE READ 01144 / CONS. 1		LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A 1 REMOTE REG. # CK DTE LAST ACTUAL READINGS 12 0 METER SERIAL # T-038473015 METER TEST DATE 09/93					
	017014			06154 / 07154	51 / 58	7 F 3 / 3*		3	3	1	728					686 / 06214		686	07154 / 00000	728	1 STEEN FISCHER & / N1691 N PRINCETON		1			1
			PRIOR HISTORY	DATE READ 06154 / CONS.	DATE READ 05164 / CONS.	DATE READ 04154 / CONS. 14*							DATE READ 03144 / CONS. 7		DATE READ 02154 / CONS. 7*			DATE READ 01144 / CONS. 6		LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A 1 REMOTE REG. # CK DTE LAST ACTUAL READINGS 51 0 METER SERIAL # T-037149109 METER TEST DATE					
	017204			06154 / 07154	/	F 3 / 3*		3	3	1	686					686 / 06214			00000 / 00000	1372	1 STANCO / N1705 N PRINCETON WAY	*	1			1
			PRIOR HISTORY	DATE READ 06154 / CONS. *	DATE READ 05164 / CONS. *	DATE READ 04154 / CONS. *							DATE READ 03144 / CONS. *		DATE READ 02154 / CONS. *			DATE READ 01144 / CONS. *		LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A 1 REMOTE REG. # CK DTE LAST ACTUAL READINGS 0 METER SERIAL # T-038661807 METER TEST DATE 11/93					
	017410			06154 / 07154	44 / 53	9 F 3 / 3*		3	3	1	812					774 / 06214			00000 / 00000	38	1 DAVID T ANGELINI / N1719 N PRINCETON WAY		1			1
			PRIOR HISTORY	DATE READ 06154 / CONS. 6	DATE READ 05164 / CONS. 9*	DATE READ 04154 / CONS. 7							DATE READ 03144 / CONS. 7		DATE READ 02154 / CONS. 6			DATE READ 01144 / CONS. 6*		LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A 1 REMOTE REG. # CK DTE LAST ACTUAL READINGS 44 0 METER SERIAL # T-038473116 METER TEST DATE 10/93					
	017600			06154 / 07154	12 / 28	16 F 3 / 3*		3	3	1	1106					1414 / 06214		2100	07114 / 00000	420	1 THOMAS A LYNCH / N1733 N PRINCETON	$	1			1 *
			PRIOR HISTORY	DATE READ 06154 / CONS. 7*	DATE READ 05164 / CONS. 2	DATE READ 04154 / CONS.							DATE READ 03144 / CONS. 1		DATE READ 02154 / CONS.			DATE READ 01144 / CONS. 2*		LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A 1 REMOTE REG. # CK DTE LAST ACTUAL READINGS 12 0 METER SERIAL # T-038473128 METER TEST DATE 10/93					
	017808			06154 / 07154	185 / 198	13 F 3 / 3*		3	3	1	980					1022 / 06214		1022	07154 / 00000	980	1 DENNIS S HANDZIEJ & / N1761 N PRINCETON WAY		1			1
			PRIOR HISTORY	DATE READ 06154 / CONS. 14	DATE READ 05164 / CONS. 15	DATE READ 04154 / CONS. 12							DATE READ 03144 / CONS. 10		DATE READ 02154 / CONS. 12			DATE READ 01144 / CONS. 12		LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A 1 REMOTE REG. # CK DTE LAST ACTUAL READINGS 185 0 METER SERIAL # X-046861233 METER TEST DATE					
	018012			06154 / 07154	42 / 50	8 F 3 / 3*		3	3	1	770					812 / 06214		812	07154 / 00000	770	1 U MAX LARSON & / N1779 N PRINCETON WAY	$	1			1
			PRIOR HISTORY	DATE READ 06154 / CONS. 9*	DATE READ 05164 / CONS. 9*	DATE READ 04154 / CONS. 7*							DATE READ 03144 / CONS. 6*		DATE READ 02154 / CONS. 23			DATE READ 02044 / CONS. 13		LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A 1 REMOTE REG. # CK DTE LAST ACTUAL READINGS 42 0 METER SERIAL # X-047084731 METER TEST DATE					
	018608			06154 / 07154	9 / 9	F 3 / 3*		3	3	1	686					2058 / 06214		2058	07154 / 00000	686	1 WAYNE SWANSON CONST / N1833 N PRINCETON WAY		1			1
			PRIOR HISTORY	DATE READ 06154 / CONS.	DATE READ 05164 / CONS. 1	DATE READ 04154 / CONS.							DATE READ 03144 / CONS. 1		DATE READ 02154 / CONS.			DATE READ 01144 / CONS. 1		LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A 1 REMOTE REG. # CK DTE LAST ACTUAL READINGS 9 0 METER SERIAL # T-037149090 METER TEST DATE					
	018806			06154 / 07154	4 / 4	F 3 / 3*		3	3	1	686					686 / 06214		686	07154 / 00000	686	1 CESARE CONSTRUCTION / N1851 N PRINCETON WY		1			1
			PRIOR HISTORY	DATE READ 06154 / CONS.	DATE READ 05164 / CONS. 2	DATE READ 04154 / CONS. 2							DATE READ 03144 / CONS. *		DATE READ 02154 / CONS. 3			DATE READ 01214 / CONS. Z		LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A 1 REMOTE REG. # CK DTE LAST ACTUAL READINGS 4 0 METER SERIAL # T-038837717 METER TEST DATE 01/94					

FORM NO. ACBS-21 5/78
HES DATA PRODS. INC.

NOV 8 1994

AUTOMATED CUSTOMER BILLING SYSTEM (495) EM2 INC.

BILLING REGISTER

BOOK #055 BILL DATE 07/20/94 CUTOFF DATE 08/16/94 CYCLE *M* PAGE # 006

SCU	METER-OUT / METER-IN	DATES: PREVIOUS / CURRENT	READINGS: PREVIOUS / CURRENT	CONS / # OF DIALS	CURRENT BILLING INFORMATION: SERVICE CODE	METER SIZE	WATER TYPE	WATER COST / SEWER COST	OTHER CHARGE CODE	OTHER CHARGE / OTHER CHARGE	LAST BILLING: BALANCE / DATE	TOTAL PAID / NET ADJ.	LATEST: DATE / GROSS / NET	CURRENT	CUSTOMER NAME / SERVICE ADDRESS	BILL CODE	# OF WAY MTRS	METER LOCATION	FOOTNOTE
019408		06154		3*		331	1				732		00000		3MAX MILLER CONSTRUCTION		1		B*
		07154									06214		00000		732 N1820 N PRINCETON				
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144								LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE				
	CONS	N	13	1											LAST ACTUAL READINGS 0 METER SERIAL # T-038473166 METER TEST DATE 10/93				
019416		06154	10	8F331	1	770					728		00000		1MANUEL P MARQUEZ $		1		1*
		07154	18	3*							06214		00000		1498 N1820 N PRINCETON				
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144								LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE				
	CONS	7*	13	1											LAST ACTUAL READINGS 10 0 METER SERIAL # T-038473166 METER TEST DATE 10/93				
019606		06154	45	F331	1	686					1064	1064-07154			1STERLING HOMES		1		1*
		07154	45	3*							06214		00000		686 N1804 N PRINCETON WAY				
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02224	00000								LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE				
	CONS	15	2	28*	3	Z									LAST ACTUAL READINGS 45 0 METER SERIAL # T-038987909 METER TEST DATE 02/94				
019812		06154	28	8F331	1	770					770	770-07154			1R KEITH MURPHY & $		1		1*
		07154	36	3*							06214		00000		770 N1788 N PRINCETON WY				
PRIOR HISTORY	DATE READ	06154	05164	04154	03284	00000	00000								LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE				
	CONS	8*	8*	73	53										LAST ACTUAL READINGS 28 0 METER SERIAL # T-038988179 METER TEST DATE 03/94				
020406		06154		F331	1	686					686		00000		1STANCO *		1		1
		07154		3*							06214		00000		1372 N1739 N RADCLIFFE WAY				
PRIOR HISTORY	DATE READ	06154	05164	00000	00000	00000	00000								LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE				
	CONS	*	Z												LAST ACTUAL READINGS 0 METER SERIAL # T-039087112 METER TEST DATE 05/94				
020604		07064	4	331	1						480		00000		3POND CONSTRUCTION		1		B*
		07154		3*							07114		00000		480 N1757 N RADCLIFFE				
PRIOR HISTORY	DATE READ	07064	05164	04154	03144	02154	01144								LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE				
	CONS	33					1*								LAST ACTUAL READINGS 2 0 METER SERIAL # T-038661568 METER TEST DATE 11/93				
*020612		07064	4	7F331	1	424							00000		1RANDY L RICHARDSON & $P		1		1*
		07154	11	3*							00000		00000		424 N1757 N RADCLIFFE 21				
PRIOR HISTORY	DATE READ	07064	05164	04154	03144	02154	01144								LAST ACTUAL READ DATE 07064 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE				
	CONS	33					1*								LAST ACTUAL READINGS 4 0 METER SERIAL # T-038661568 METER TEST DATE 11/93				
020802		06154	2	331	1						686	686-07154			3LANDMARK HOMES		1		N
		07154		3*							06214		00000		N1779 N RADCLIFFE				
PRIOR HISTORY	DATE READ	06154	06154	04204	00000	00000	00000								LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE				
	CONS	N	23	Z											LAST ACTUAL READINGS 2 0 METER SERIAL # T-039086919 METER TEST DATE 04/94				
*020810		06154	2	F331	1	686							00000		1TIM G STANGEL		1		1
		07154	2	3*							00000		00000		686 N1779 N RADCLIFFE				
PRIOR HISTORY	DATE READ	06154	06154	04204	00000	00000	00000								LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE				
	CONS	N	23	Z											LAST ACTUAL READINGS 2 0 METER SERIAL # T-039086919 METER TEST DATE 04/94				
021008		06154	8	F331	1	686					1372-		00000		1FENIX CONSTRUCTION		1		1
		07154	8	3*							06214		00000		686 N1801 N RADCLIFFE WY				
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144								LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE				
	CONS		1			1									LAST ACTUAL READINGS 8 0 METER SERIAL # T-038047029 METER TEST DATE 09/93				
021206		06154	69	9F331	1	812					728		00000		1NANETTE M COSTA $		1		1
		07154	78	3*							06214		00000		1540 N1823 N RADCLIFFE WAY				
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144								LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE				
	CONS	7	8*	11*	3	4	2								LAST ACTUAL READINGS 69 0 METER SERIAL # X-048681205 METER TEST DATE				
021412		06154	82	15F331	1	1064					327	5000-07114			1VICTOR A KUNZ & $		1		1
		07154	97	3*							06214		00000		3609 N1861 N RADCLIFFE WAY				
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01284								LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE				
	CONS	12	10	45*	9*	43	13								LAST ACTUAL READINGS 82 0 METER SERIAL # T-037149107 METER TEST DATE 10/93				
021602		06154	8	3F331	1	686					686	686-07154			1MAYER CONSTRUCTION $		1		1
		07154	11	3*							06214		00000		686 N1804 N PARKFOREST WAY				
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144								LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE				
	CONS	3*	1		1	3	L								LAST ACTUAL READINGS 8 0 METER SERIAL # T-038661622 METER TEST DATE 02/94				
021800		06154	23	F331	1	686					686	686-07154			1LARRY HOBBS		1		1
		07154	23	3*							06214		00000		686 N1760 N PARKFOREST WAY				
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144								LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REG. # CK DTE				
	CONS														LAST ACTUAL READINGS 23 0 METER SERIAL # X-047010400 METER TEST DATE				

FORM NO. ACBS-21 5/78

HES DATA PRODS INC.

GENERAL WATERWORKS
AUTOMATED CUSTOMER BILLING SYSTEM (495) EM2 INC.
BOOK #055 BILL DATE 07/20/94 CUTOFF DATE 08/16/94 CYCLE *M* PAGE # 007

BILLING REGISTER

ACCT #	METER-CUT / METER-IN	DATES: PREVIOUS / CURRENT	READINGS: PREVIOUS / CURRENT	CURRENT BILLING INFORMATION: CONS / # OF DIALS	WATER COST / SEWER COST	OTHER CHARGE / OTHER CHARGE	LAST BILLING: BALANCE / DATE	TOTAL PAID / NET ADJ.	LATEST: DATE / DATE	CURRENT: GROSS / NET	CUSTOMER NAME / SERVICE ADDRESS	BILL CODE	METER CONDITION
022014		06154 / 07154	97 / 113	16 / 3*	F331 1 1106		980 / 06214	980- /	07114 / 00000	1106	1 RANDY S STEED / N1716 N PARKFOREST WAY	$	1
PRIOR HISTORY		06154 / 13*	05164 / 13*	04154 / 12*		03144 / 12*	02154 / 12*	01144 / 43			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ # CK DTE LAST ACTUAL READINGS 97 0 METER SERIAL # X-047084726 METER TEST DATE		
022204		06154 / 07154	7 / 3*	331 1			686 / 06214	686- /	07154 / 00000		3 MAYER CONSTRUCTION / N1692 N PARKFOREST WY		1 N
PRIOR HISTORY		06154 / N	06154 / 73	04154 / 3		03164 / Z	00000 /	00000 /			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ # CK DTE LAST ACTUAL READINGS 7 0 METER SERIAL # T-038988157 METER TEST DATE 03/94		
*022212		06154 / 07154	7 / 16	9 / 3*	F331 1 812		/ 00000	/ 00000	00000	812	1 JOE D KLOBUCHER / N1692 N PARKFOREST WY	$	1
PRIOR HISTORY		06154 / N	06154 / 73	04154 / 3		03164 / Z	00000 /	00000 /			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ # CK DTE LAST ACTUAL READINGS 7 0 METER SERIAL # T-038988157 METER TEST DATE 03/94		
022600		06154 / 07154	162 / 176	14 / 3*	F331 1 1022		896 / 06214	896- /	07114 / 00000	1022	1 PAMELA M HOLTON / N1652 N PARKFOREST WAY		1
PRIOR HISTORY		06154 / 11	05164 / 26*	04154 / 15		03144 / 6	02154 / 16	01144 / 13			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ # CK DTE LAST ACTUAL READINGS 162 0 METER SERIAL # X-047010380 METER TEST DATE		
022808		06154 / 07154	170 / 188	18 / 3*	F331 1 1190		854 / 06214	854- /	07114 / 00000	1190	1 RICHARD D THOLEN / N1610 N PARKFOREST WAY	$	1
PRIOR HISTORY		06154 / 10	05164 / 10	04154 / 16*		03144 / 7	02154 / 8	01144 / 6			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ # CK DTE LAST ACTUAL READINGS 170 0 METER SERIAL # X-046332329 METER TEST DATE		
023004		06154 / 07154	419 / 436	17 / 3*	F331 1 1148		1274 / 06214	1274- /	07114 / 00000	1148	1 ROBERT & TERESA BANKS / N1542 N PARKFOREST WAY		1
PRIOR HISTORY		06154 / 20	05164 / 20	04154 / 21		03144 / 17	02154 / 20	01144 / 16			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ # CK DTE LAST ACTUAL READINGS 419 0 METER SERIAL # X-046079872 METER TEST DATE		
023202		06154 / 07154	179 / 187	8 / 3*	F331 1 770		728 / 06214	728- /	07114 / 00000	770	1 JACK TARLETON / N1517 N DUNSMUIR WAY		1
PRIOR HISTORY		06154 / 7	05164 / 8	04154 / 15*		03144 / 6	02154 / 5	01144 / 6			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ # CK DTE LAST ACTUAL READINGS 179 0 METER SERIAL # X-046079882 METER TEST DATE		
023400		06154 / 07154	78 / 83	5 / 3*	F331 1 686		632- / 06214	/	00000	54	1 CHARLES M & CAROL BLAIR / N1535 N DUNSMUIR WAY		1
PRIOR HISTORY		06154 / 1	05164 / 8	04154 / 10*		03144 / 5	02154 / 6	01144 / 5			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ # CK DTE LAST ACTUAL READINGS 78 0 METER SERIAL # X-047119707 METER TEST DATE		
023616		06154 / 07154	166 / 177	11 / 3*	F331 1 896		980 / 06214	980- /	07154 / 00000	896	1 RUSS R GROBE & / N1553 N DUNSMUIR WAY		1
PRIOR HISTORY		06154 / 13*	05164 / 10	04154 / 10		03144 / 8	02154 / 10	01144 / 8			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ # CK DTE LAST ACTUAL READINGS 166 0 METER SERIAL # X-046079877 METER TEST DATE		
023806		06154 / 07154	149 / 155	6 / 3*	F331 1 686		686 / 06214	/	00000	1372	1 BRIAN FALCK / N1571 N DUNSMUIR WAY		1
PRIOR HISTORY		06154 / 5	05164 / 7	04154 / 6		03144 / 5	02154 / 6	01144 / 6			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ # CK DTE LAST ACTUAL READINGS 149 0 METER SERIAL # X-045196086 METER TEST DATE		
024002		06154 / 07154	192 / 199	7 / 3*	F331 1 728		770 / 06214	770- /	07154 / 00000	728	1 DERMOT CONNOLLY / N1589 N DUNSMUIR WAY		1
PRIOR HISTORY		06154 / 8	05164 / 8	04154 / 9		03144 / 7	02154 / 9	01144 / 7			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ # CK DTE LAST ACTUAL READINGS 192 0 METER SERIAL # X-045196089 METER TEST DATE		
024200		07114 / 07154	331 / 3*	331 1			1522 / 07134	/	00000	1522	3 RUSSELL L-SUSAN E MAYER / N1617 N DUNSMUIR WAY		1 3*
PRIOR HISTORY		07114 / 173	05164 / 10	04154 / 11		03144 / 10	02154 / 10	01144 / 11			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ # CK DTE LAST ACTUAL READINGS 324 0 METER SERIAL # X-045196103 METER TEST DATE		
*024218		07114 / 07154	331 / 334	3 / 3*	F331 1 184		/ 00000	/ 00000	00000	184	1 HERB P BRENNEKE & / N1617 N DUNSMUIR WAY 26	P	1
PRIOR HISTORY		07114 / 173	05164 / 10	04154 / 11		03144 / 10	02154 / 10	01144 / 11			LAST ACTUAL READ DATE 07114 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ # CK DTE LAST ACTUAL READINGS 331 0 METER SERIAL # X-045196103 METER TEST DATE		
024416		06154 / 07154	242 / 253	11 / 3*	F331 1 896		1064 / 06214	/	00000	1960	1 BOB J BARTH & / N1635 N DUNSMUIR WAY		1
PRIOR HISTORY		06154 / 15	05164 / 16	04154 / 21*		03144 / 14	02154 / 17*	01144 / 14			LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ # CK DTE LAST ACTUAL READINGS 242 0 METER SERIAL # X-046079878 METER TEST DATE		

FORM NO. ACBS-21 5/78

HES DATA PRODS. INC.

NOV 08 1995

GENERAL WATERWORKS
AUTOMATED CUSTOMER BILLING SYSTEM (95) EM2 INC.

BILLING REGISTER

BOOK #055 BILL DATE 07/20/94 CUTOFF DATE 08/16/94 CYCLE *M* PAGE # 008

NEW	ACCT #	CUST SEX	METER-OUT / METER-IN	DATES PREVIOUS / CURRENT	READINGS PREVIOUS / CURRENT	CONS # OF DIALS	CURRENT BILLING INFORMATION: UNIT / TIME / REV / WAT TF / SEW TF / WATER COST / SEWER COST / CODE / OTHER CHARGE / OTHER CHARGE / CODE / OTHER CHARGE / OTHER CHARGE	LAST BILLING BALANCE / DATE	CR DB	TOTAL PAID / NET ADJ.	CR	LATEST DATE / DATE	CURRENT GROSS / NET	CREDIT STATUS	CUSTOMER NAME / SERVICE ADDRESS	BILL CODES	# OF MINIMUMS OR MAXIMUMS	METER CONDITION	ROUTE	SEQ	BILLS	RETURN
	024606		06154 / 07154	138 / 153	15 / 3*	F331 1 1064		812 / 06214		812	-	07154 / 00000	1064		1 STEVE R HOKE / N1636 N DUNSMUIR WAY	$	1				1	
	PRIOR HISTORY		06154 / 9	05164 / 12	04154 / 10	03144 / 9	02154 / 10	01144 / 10							LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # CK DTE LAST ACTUAL READINGS 138 0 METER SERIAL # X-046332266 METER TEST DATE							
	024804		06154 / 07154	109 / 115	6 / 3*	F331 1 686		1372 / 06214		1372	-	07154 / 00000	686		1 JAKE SPOOR / N1634 N ELLINGTON PL		1				1	
	PRIOR HISTORY		06154 / 4	05164 / 6	04154 / 5	03144 / 4	02154 / 4	01144 / 4							LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # CK DTE LAST ACTUAL READINGS 109 0 METER SERIAL # X-046079886 METER TEST DATE							
	025009		06154 / 07154	169 / 177	8 / 3*	F331 1 770		854 / 06214		854	-	07114 / 00000	770		1 MICHAEL J STURMAK / N1620 ELLINGTON PL		1				1	
	PRIOR HISTORY		06154 / 10	05164 / 11	04154 / 10	03144 / 8	02154 / 9	01144 / 11							LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # CK DTE LAST ACTUAL READINGS 169 0 METER SERIAL # X-046332267 METER TEST DATE							
	025207		06154 / 07154	333 / 347	14 / 3*	F331 1 1022		1064 / 06214		1064	-	07154 / 00000	1022		1 MORRIS GRIGG / N1606 N ELLINGTON PL		1				1	
	PRIOR HISTORY		06154 / 15	05164 / 17	04154 / 14	03144 / 11	02154 / 13	01144 / 12							LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # CK DTE LAST ACTUAL READINGS 333 0 METER SERIAL # X-045196093 METER TEST DATE							
	025405		06154 / 07154	379 / 414	35 / 3*	F331 1 1904		1568 / 06214		1568	-	07154 / 00000	1904		1 ALAN BENDAWALD / N1588 N ELLINGTON PL	$	1				1	
	PRIOR HISTORY		06154 / 27	05164 / 28*	04154 / 25	03144 / 19	02154 / 19	01144 / 17							LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # CK DTE LAST ACTUAL READINGS 379 0 METER SERIAL # X-046332283 METER TEST DATE							
	025603		06154 / 07154	224 / 232	8 / 3*	F331 1 770		1708 / 06214		854	-	07014 / 00000	1624		1 GINA SANTUCCIE / N1574 N ELLINGTON PL		1				1	
	PRIOR HISTORY		06154 / 10	05164 / 10	04154 / 11	03144 / 7	02154 / 9	01144 / 9							LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # CK DTE LAST ACTUAL READINGS 224 0 METER SERIAL # X-046332340 METER TEST DATE							
	025801		06154 / 07154	227 / 241	14 / 3*	F331 1 1022		938 / 06214		938	-	07154 / 00000	1022		1 STEVE GREEN / N1560 N ELLINGTON PL		1				1	
	PRIOR HISTORY		06154 / 12	05164 / 16	04154 / 14	03144 / 12	02154 / 11	01144 / 9							LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # CK DTE LAST ACTUAL READINGS 227 0 METER SERIAL # X-046332268 METER TEST DATE							
	026007		06154 / 07154	139 / 148	9 / 3*	F331 1 812		694 / 06214		694	-	07114 / 00000	812		1 DAN STEENSON / N1546 N ELLINGTON PL		1				1	
	PRIOR HISTORY		06154 / 6	05164 / 7	04154 / 14*	03144 / 8	02154 / 10*	01144 / 8							LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # CK DTE LAST ACTUAL READINGS 139 0 METER SERIAL # X-045196099 METER TEST DATE							
	026213		06154 / 07154	57 / 67	10 / 3*	F331 1 854		1414 / 06214		728	-	07114 / 00000	1540		1 JOHN F & DIANE L GOYER / N1547 N WIMBLEDON CT	$	1				1	
	PRIOR HISTORY		06154 / 6	05164 / 7*	04154 / 7*	03144 / 5	02154 / 5	01144 / 8*							LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # CK DTE LAST ACTUAL READINGS 57 0 METER SERIAL # X-046861731 METER TEST DATE							
	026403		06154 / 07154	4 / 4	/ 3*	F331 1 686		1372 / 06214				00000 / 00000	2058		1L 816 HOMCO / N1575 N WIMBLEDON CT		1				1	
	PRIOR HISTORY		06154 / 1	05164 / 1	04154 / 1	03144 / 1	02154 / *	01144 / *							LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # CK DTE LAST ACTUAL READINGS 4 0 METER SERIAL # T-038661836 METER TEST DATE 11/93							
	026908		06304 / 07154	5 / 3*	/	331 1		1715 / 07114				00000 / 00000	1715		3L 820 HOMCO / N1637 N WIMBLEDON		1				8*	
	PRIOR HISTORY		06304 / 13	05164 / 1	04154 /	03144 / 1	02154 / 2	01144 / *							LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # CK DTE LAST ACTUAL READINGS 5 0 METER SERIAL # T-037149133 METER TEST DATE 09/93							
	*026916		06304 / 07154	5 / 10	5 / 3*	F331 1 427		00000 / 00000				00000 / 00000	427		1 JAMES H GRIFFITHS & / N1637 N WIMBLEDON	$P	1				1	
	PRIOR HISTORY		06304 / 13	05164 / 1	04154 /	03144 / 1	02154 / 2	01144 / *							LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # CK DTE LAST ACTUAL READINGS 5 0 METER SERIAL # T-037149133 METER TEST DATE 09/93							
	027013		06154 / 07154	97 / 115	18 / 3*	F331 1 1190		1190 / 06214		1190	-	07154 / 00000	1190		1 SIDNEY A RESNICK / N1655 N WIMBLEDON CT	$	1				1	
	PRIOR HISTORY		06154 / 18*	05164 / 14*	04154 / 16*	03144 / 11*	02154 / 13*	01144 / 11*							LAST ACTUAL READ DATE 06154 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # CK DTE LAST ACTUAL READINGS 97 0 METER SERIAL # X-047119703 METER TEST DATE							
	*027203		06214 / 07154	/ 1	1 / 3*	F331 1 549		00000 / 00000				00000 / 00000	549		1 HOMCO 832 / N1638 N WIMBLEDON	$P	1				1	
	PRIOR HISTORY		06214 / Z	00000	00000	00000									LAST ACTUAL READ DATE 06214 0 SERVICE NUMBER 00000 HEAT CODE S/A-1 REMOTE REQ. # CK DTE LAST ACTUAL READINGS 0 METER SERIAL # T-039290352 METER TEST DATE 06/94							

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HES DATA PRODS INC

GENERAL WATERWORKS
AUTOMATED CUSTOMER BILLING SYSTEM (495) EM2 INC.

BOOK #055 BILL DATE 07/20/94 CUTOFF DATE 08/16/94 CYCLE *M* PAGE # 009

BILLING REGISTER

SEQ / ACCT # / CYCL / CHK	METER-OUT / METER-IN	DATES: PREVIOUS / CURRENT	READINGS: PREVIOUS / CURRENT	CURRENT BILLING INFORMATION: CONS # OF DIALS	UNIT	METERS	WAT TF / SEW TF	WATER COST / SEWER COST	CODE	OTHER CHARGE / OTHER CHARGE	CODE	OTHER CHARGE / OTHER CHARGE	LAST BILLING: BALANCE / DATE	ADJ	TOTAL PAID / NET ADJ.	CR	LATEST: DATE / DATE	CURRENT: GROSS / NET	CRED	STATUS	CUSTOMER NAME / SERVICE ADDRESS	BILL CODES	# OF MIN. MUNS OR MAXI. MUMS	METER CONDITION	ROUTE	SEQ	RETURN
027419		06154	113	16	F	331	1	1106					664-				00000			1	FRED J GRAY	$	1				1
		07154	129	3*									06214				00000	442		N	1602 N WIMBLEDON CT						
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144																				
	CONS.	14	11	12	8	10	12																				
	LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REQ. #																			
	LAST ACTUAL READINGS	113		0	METER SERIAL #	X-047119706	METER TEST DATE																				
027609		06154	181	23	F	331	1	1400					3612				00000			1	STEVE M-SHELLY M KOPPES		1				1
		07154	204	3*									06214				00000	5012		N	1584 N WIMBLEDON CT						
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144																				
	CONS.	20	16	19	14	15	14																				
	LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REQ. #																			
	LAST ACTUAL READINGS	181		0	METER SERIAL #	X-047084732	METER TEST DATE																				
027807		06154	5	1	F	331	1	686					1372				00000			1	815 HOMCO	$	1				1
		07154	6	3*									06214				00000	2058		N	1566 N WIMBLEDON CT						
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144																				
	CONS.	1	2	2	*	*	*																				
	LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REQ. #																			
	LAST ACTUAL READINGS	5		0	METER SERIAL #	T-038661837	METER TEST DATE	11/93																			
028003		06304	2			331	1	846					846				00000			3	HOMCO		1				B*
		07154		3*									07114				00000	846		N	1548 N WIMBLEDON CT						
PRIOR HISTORY	DATE READ	06304	05244	00000	00000	00000	00000																				
	CONS.	23	Z																								
	LAST ACTUAL READ DATE	05244	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REQ. #																			
	LAST ACTUAL READINGS			0	METER SERIAL #	T-039087146	METER TEST DATE	05/94																			
*028011		06304	2	6	F	331	1	469									00000			1	SCOTT K & TAMERA L HURD $P		1				1
		07154	8	3*									00000				00000	469		N	1548 N WIMBLEDON CT		15				
PRIOR HISTORY	DATE READ	06304	05244	00000	00000	00000	00000																				
	CONS.	23	Z																								
	LAST ACTUAL READ DATE	06304	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REQ. #																			
	LAST ACTUAL READINGS	2		0	METER SERIAL #	T-039087146	METER TEST DATE	05/94																			
028219		06154	46	11	F	331	1	896					1834		1834-	07014				1	R SCOTT BUTLER		1				1
		07154	57	3*									06214				00000	896		N	2111 E SHALIMAR DR						
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	02044																				
	CONS.	10	13*	10*	8*	33	23																				
	LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REQ. #																			
	LAST ACTUAL READINGS	46		0	METER SERIAL #	T-038661580	METER TEST DATE	01/94																			
028615		06154	51	16	F	331	1	1106					896		896-	07014				1	TRAE E BUCHERT &¬	$	1				1
		07154	67	3*									06214				00000	1106		N	2067 E SHALIMAR DR						
PRIOR HISTORY	DATE READ	06154	05164	04154	03294	02154	01144																				
	CONS.	11*	10*	123	133	2																					
	LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REQ. #																			
	LAST ACTUAL READINGS	51		0	METER SERIAL #	T-037149132	METER TEST DATE	09/93																			
028805		06154	2	1	F	331	1	686					1372				00000			1	HOMCO/L828	$	1				1
		07154	3	3*									06214				00000	2058		N	2045 E SHALIMAR DR						
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01274																				
	CONS.	1		1	*	3	Z																				
	LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REQ. #																			
	LAST ACTUAL READINGS	2		0	METER SERIAL #	T-038837760	METER TEST DATE	01/94																			
029001		06154	301	20	F	331	1	1274					854		854-	07014				1	RONALD A RABEHL	$	1				1
		07154	321	3*									06214				00000	1274		N	1508 N ELLINGTON PL						
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144																				
	CONS.	10	13	20*	9	11	10																				
	LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REQ. #																			
	LAST ACTUAL READINGS	301		0	METER SERIAL #	X-046079871	METER TEST DATE																				
029209		06154	110	10	F	331	1	854					812		812-	07114				1	TAMARA MUHIC	$	1				1
		07154	120	3*									06214				00000	854		N	1494 N ELLINGTON PL						
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144																				
	CONS.	9*	8*	4	3	4	4																				
	LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REQ. #																			
	LAST ACTUAL READINGS	110		0	METER SERIAL #	X-045196090	METER TEST DATE																				
029407		06154	179	16	F	331	1	1106					1022		1022-	07114				1	SONNY & CHONA MACKEY		1				1
		07154	195	3*									06214				00000	1106		N	1480 N ELLINGTON PL						
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144																				
	CONS.	14	13	13	9	11	11																				
	LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REQ. #																			
	LAST ACTUAL READINGS	179		0	METER SERIAL #	X-047084705	METER TEST DATE																				
029605		06154	196	14	F	331	1	1022					854				00000			1	STEVEN L THORSEN		1				1
		07154	210	3*									06214				00000	1876		N	1466 N ELLINGTON PL						
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144																				
	CONS.	10	10	13	9	8	9																				
	LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REQ. #																			
	LAST ACTUAL READINGS	196		0	METER SERIAL #	X-046332338	METER TEST DATE																				
029803		06154	173	8	F	331	1	770					770		770-	07114				1	ROB & TAMI STORM		1				1
		07154	181	3*									06214				00000	770		N	1452 N ELLINGTON PL						
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144																				
	CONS.	8	11	9	7	8	7																				
	LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REQ. #																			
	LAST ACTUAL READINGS	173		0	METER SERIAL #	X-045196108	METER TEST DATE																				
030009		06154	203	12	F	331	1	938					938				00000			1	KIRT TROUTNER		1				1
		07154	215	3*									06214				00000	1876		N	1438 N ELLINGTON PL						
PRIOR HISTORY	DATE READ	06154	05164	04154	03144	02154	01144																				
	CONS.	12	26*	17	9	10	9																				
	LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER	00000	HEAT CODE	S/A-1	REMOTE REQ. #																			
	LAST ACTUAL READINGS	203		0	METER SERIAL #	X-046079887	METER TEST DATE																				

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GENERAL WATERWORKS
AUTOMATED CUSTOMER BILLING SYSTEM (495) EM2 INC.

BOOK #055 BILL DATE07/20/94 CUTOFF DATE08/16/94 CYCLE *M*PAGE # 010

BILLING REGISTER

ACCT #	METER-OUT / METER-IN	DATES: PREVIOUS / CURRENT	READINGS: PREVIOUS / CURRENT	CURRENT BILLING INFORMATION: CONS / # OF DIALS	UNIT	METER	REV	WAT TF / SEW TF	WATER COST / SEWER COST	CODE	OTHER CHARGE / OTHER CHARGE	CODE	OTHER CHARGE / OTHER CHARGE	LAST BILLING: BALANCE / DATE	CREDIT	TOTAL PAID / NET ADJ.	CR	LATEST: DATE / DATE	CURRENT: GROSS / NET	STATUS	CUSTOMER NAME / SERVICE ADDRESS	BILL CODES	# OF MINIMUMS OR MAXIMUMS	METER CONDITION	T	1	2	RETURN
030207		06154	293	9	F	331	1		812					812				00000			1	OTIS W & BETTY A HARRIS		1				1	
		07154	302	3*										06214				00000	1624	N	1424 N ELLINGTON PL							
PRIOR HISTORY		DATE READ 06154	DATE READ 05164	DATE READ 04154					DATE READ 03144		DATE READ 02154		DATE READ 01144	LAST ACTUAL READ DATE 06154	0	SERVICE NUMBER 00000	HEAT CODE	S/A-1	REMOTE REQ. #		CK DTE							
		CONS. 9	CONS. 8	CONS. 19*					CONS. 7		CONS. 8		CONS. 7	LAST ACTUAL READINGS 293	0	METER SERIAL # X-045194106			METER TEST DATE								
030405		06154	169	12	F	331	1		938					938			07114				1	ROBERT BRUMPTON		1				1	
		07154	181	3*										06214				00000	938	N	1425 N ELLINGTON PL							
PRIOR HISTORY		DATE READ 06154	DATE READ 05164	DATE READ 04154					DATE READ 03144		DATE READ 02154		DATE READ 01144	LAST ACTUAL READ DATE 06154	0	SERVICE NUMBER 00000	HEAT CODE	S/A-1	REMOTE REQ. #		CK DTE							
		CONS. 12	CONS. 12	CONS. 12					CONS. 8		CONS. 10		CONS. 9	LAST ACTUAL READINGS 169	0	METER SERIAL # X-046770445			METER TEST DATE								
030603		06154	164	9	F	331	1		812					1022				00000			1	BRENT JOHNSTON		1				1	
		07154	173	3*										06214				00000	1834	N	1433 N ELLINGTON PL							
PRIOR STORY		DATE READ 06154	DATE READ 05164	DATE READ 04154					DATE READ 03144		DATE READ 02154		DATE READ 01144	LAST ACTUAL READ DATE 06154	0	SERVICE NUMBER 00000	HEAT CODE	S/A-1	REMOTE REQ. #		CK DTE							
		CONS. 14	CONS. 13	CONS. 19*					CONS. 8		CONS. 9		CONS. 9	LAST ACTUAL READINGS 164	0	METER SERIAL # X-046770441			METER TEST DATE								
030801		06154	167	11	F	331	1		896					896			07154				1	DAVID & ALICE WHITING		1				1	
		07154	178	3*										06214				00000	896	N	1441 N ELLINGTON PL							
PRIOR HISTORY		DATE READ 06154	DATE READ 05164	DATE READ 04154					DATE READ 03144		DATE READ 02154		DATE READ 01144	LAST ACTUAL READ DATE 06154	0	SERVICE NUMBER 00000	HEAT CODE	S/A-1	REMOTE REQ. #		CK DTE							
		CONS. 11	CONS. 10	CONS. 8					CONS. 8		CONS. 11		CONS. 11	LAST ACTUAL READINGS 167	0	METER SERIAL # X-046770441			METER TEST DATE								
031007		06154	136	6	F	331	1		686					854			07114				1	ROBERT A HOUSE		1				1	
		07154	142	3*										06214				00000	686	N	1453 N ELLINGTON PL							
PRIOR HISTORY		DATE READ 06154	DATE READ 05164	DATE READ 04154					DATE READ 03144		DATE READ 02154		DATE READ 01144	LAST ACTUAL READ DATE 06154	0	SERVICE NUMBER 00000	HEAT CODE	S/A-1	REMOTE REQ. #		CK DTE							
		CONS. 10	CONS. 9	CONS. 7					CONS. 7		CONS. 7		CONS. 9	LAST ACTUAL READINGS 136	0	METER SERIAL # X-046575673			METER TEST DATE								
031205		06154	151	14	F	331	1		1022					896				00000			1	NATALIA GREGOREK $		1				1	
		07154	165	3*										06214				00000	1918	N	1465 N ELLINGTON PL							
PRIOR HISTORY		DATE READ 06154	DATE READ 05164	DATE READ 04154					DATE READ 03144		DATE READ 02154		DATE READ 01144	LAST ACTUAL READ DATE 06154	0	SERVICE NUMBER 00000	HEAT CODE	S/A-1	REMOTE REQ. #		CK DTE							
		CONS. 11*	CONS. 4	CONS. 8					CONS. 6		CONS. 7		CONS. 7	LAST ACTUAL READINGS 151	0	METER SERIAL # X-046196096			METER TEST DATE								
031403		06154	290	22	F	331	1		1358					1232				00000			1	H ROLAND MCMULLIN & $		1				1	
		07154	312	3*										06214				00000	2590	N	1477 N ELLINGTON PL							
PRIOR HISTORY		DATE READ 06154	DATE READ 05164	DATE READ 04154					DATE READ 03144		DATE READ 02154		DATE READ 01144	LAST ACTUAL READ DATE 06154	0	SERVICE NUMBER 00000	HEAT CODE	S/A-1	REMOTE REQ. #		CK DTE							
		CONS 19*	CONS. 13*	CONS. 12					CONS. 10		CONS. 11		CONS. 4	LAST ACTUAL READINGS 290	0	METER SERIAL # X-045196100			METER TEST DATE								
031601		06154	135	11	F	331	1		896					770				00000			1	DENNIS KOMPERUD		1				1	
		07154	146	3*										06214				00000	1666	N	1485 N ELLINGTON PL							
PRIOR HISTORY		DATE READ 06154	DATE READ 05164	DATE READ 04154					DATE READ 03144		DATE READ 02154		DATE READ 01144	LAST ACTUAL READ DATE 06154	0	SERVICE NUMBER 00000	HEAT CODE	S/A-1	REMOTE REQ. #		CK DTE							
		CONS. 8	CONS. 8	CONS. 9					CONS. 6		CONS. 7		CONS. 8	LAST ACTUAL READINGS 135	0	METER SERIAL # X-045196094			METER TEST DATE								
031809		06154	99	12	F	331	1		938					812			07114				1	JAMES R-CHRISTINE BORTON $		1				1	
		07154	111	3*										06214				00000	938	N	1497 N ELLINGTON PL							
PRIOR HISTORY		DATE READ 06154	DATE READ 05164	DATE READ 04154					DATE READ 03144		DATE READ 02154		DATE READ 01144	LAST ACTUAL READ DATE 06154	0	SERVICE NUMBER 00000	HEAT CODE	S/A-1	REMOTE REQ. #		CK DTE							
		CONS. 9	CONS. 9	CONS. 7					CONS. 6		CONS. 6		CONS. 7	LAST ACTUAL READINGS 99	0	METER SERIAL # X-046861204			METER TEST DATE								
032005		06154	107	4	F	331	1		686					686			07114				1	BARBARA MONTGOMERY		1				1	
		07154	111	3*										06214				00000	686	N	1509 N ELLINGTON PL							
PRIOR HISTORY		DATE READ 06154	DATE READ 05164	DATE READ 04154					DATE READ 03144		DATE READ 02154		DATE READ 01144	LAST ACTUAL READ DATE 06154	0	SERVICE NUMBER 00000	HEAT CODE	S/A-1	REMOTE REQ. #		CK DTE							
		CONS. 6	CONS. 5	CONS. 5					CONS. 3		CONS. 4		CONS. 7*	LAST ACTUAL READINGS 107	0	METER SERIAL # X-046332273			METER TEST DATE								
032203		06154	480	15	F	331	1		1064					980			07154				1	SCOTT HOLLOWAY		1				1	
		07154	495	3*										06214				00000	1064	N	1545 N ELLINGTON PL							
PRIOR HISTORY		DATE READ 06154	DATE READ 05164	DATE READ 04154					DATE READ 03144		DATE READ 02154		DATE READ 01144	LAST ACTUAL READ DATE 06154	0	SERVICE NUMBER 00000	HEAT CODE	S/A-1	REMOTE REQ. #		CK DTE							
		CONS. 13	CONS. 14	CONS. 16					CONS. 12		CONS. 14		CONS. 11	LAST ACTUAL READINGS 480	0	METER SERIAL # X-046079874			METER TEST DATE								
032401		06154	133	4	F	331	1		686					686			07114				1	THOMAS MOWRY		1				1	
		07154	137	3*										06214				00000	686	N	1559 N ELLINGTON WAY							
PRIOR HISTORY		DATE READ 06154	DATE READ 05164	DATE READ 04154					DATE READ 03144		DATE READ 02154		DATE READ 01144	LAST ACTUAL READ DATE 06154	0	SERVICE NUMBER 00000	HEAT CODE	S/A-1	REMOTE REQ. #		CK DTE							
		CONS. 4	CONS. 6	CONS. 10					CONS. 7		CONS. 7		CONS. 7	LAST ACTUAL READINGS 133	0	METER SERIAL # X-046575674			METER TEST DATE								
032609		06154	321	20	F	331	1		1274					2170				00000			1	TIM OLD		1				1	
		07154	341	3*										06214				00000	3444	N	1587 N ELLINGTON PL							
PRIOR HISTORY		DATE READ 06154	DATE READ 05164	DATE READ 04154					DATE READ 03144		DATE READ 02154		DATE READ 01144	LAST ACTUAL READ DATE 06154	0	SERVICE NUMBER 00000	HEAT CODE	S/A-1	REMOTE REQ. #		CK DTE							
		CONS. 16	CONS. 15	CONS. 16					CONS. 14		CONS. 15		CONS. 14	LAST ACTUAL READINGS 321	0	METER SERIAL # X-046332357			METER TEST DATE								
032807		06154	137	8	F	331	1		770					980			07014				1	LORI & DEAN FIELD		1				1	
		07154	145	3*										06214				00000	770	N	1621 N ELLINGTON PL							
PRIOR HISTORY		DATE READ 06154	DATE READ 05164	DATE READ 04154					DATE READ 03144		DATE READ 02154		DATE READ 01144	LAST ACTUAL READ DATE 06154	0	SERVICE NUMBER 00000	HEAT CODE	S/A-1	REMOTE REQ. #		CK DTE							
		CONS. 13*	CONS. 10*	CONS. 6					CONS. 7		CONS. 7		CONS. 4	LAST ACTUAL READINGS 137	0	METER SERIAL # X-045196101			METER TEST DATE								

ACBS-21 5/78 FOR FIES DATA PROUS, INC.

GENERAL WATERWORKS
AUTOMATED CUSTOMER BILLING SYSTEM (195) EM2 INC.

BOOK #055 BILL DATE 07/20/94 CUTOFF DATE 08/16/94 CYCLE *M* PAGE # 011

BILLING REGISTER

NEW	ACCT #	CUST CHECK	METER-OUT / METER-IN	DATES: PREVIOUS / CURRENT	READINGS: PREVIOUS / CURRENT	CURRENT BILLING INFORMATION: CONS / # OF DIALS	UNIT	TIME	TIER	WAT TF / SEW TF	WATER COST / SEWER COST	CODE	OTHER CHARGE / OTHER CHARGE	CODE	OTHER CHARGE / OTHER CHARGE	LAST BILLING: BALANCE / DATE	CR	TOTAL PAID / NET ADJ.	CR	LATEST DATE / AMOUNT	CURRENT GROSS / NET	CREDIT	STATUS	CUSTOMER NAME / SERVICE ADDRESS	BILL CODES	# OF MINIMUMS OR MAXIMUMS	METER CONDITION	1	2	ROUTE	RETURN
	033003			06154	234	6	F	331	1		686					7.28		7.28-		07154			1	WALTER J WADMAN		1				1	
				07154	240	3*										06214				00000	686	N		1554 N DUNSMUIR WAY							
	PRIOR HISTORY		DATE READ	06154	DATE READ	05164	DATE READ	04154	DATE READ	03144	DATE READ	02154	DATE READ	01144																	
			CONS.	7	CONS.	8	CONS.	8	CONS.	10*	CONS.	6	CONS.	6																	
																						LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER 00000	HEAT CODE	S/A	1	REMOTE REQ. #		CK DTE
																						LAST ACTUAL READINGS	234		0 METER SERIAL #	X-046332335	METER TEST DATE			
	033201			06154	147	19	F	331	1		1232					420				00000			1	WILLARD KING	$	1				1	
				07154	166	3*										06214				00000	1652	N		1536 N DUNSMUIR WAY							
	PRIOR HISTORY		DATE READ	06154	DATE READ	05164	DATE READ	04154	DATE READ	03144	DATE READ	02154	DATE READ	01144																	
			CONS.	19*	CONS.	7	CONS.	9*	CONS.	7	CONS.	5	CONS.	4																	
																						LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER 00000	HEAT CODE	S/A	1	REMOTE REQ. #		CK DTE
																						LAST ACTUAL READINGS	147		0 METER SERIAL #	X-045196095	METER TEST DATE			
	033409			06154	179	9	F	331	1		812					1750		854-		07014			1	JAMES R QUAM		1				1	
				07154	188	3*										06214				00000	1708	N		1518 N DUNSMUIR WAY							
	PRIOR HISTORY		DATE READ	06154	DATE READ	05164	DATE READ	04154	DATE READ	03144	DATE READ	02154	DATE READ	01144																	
			CONS.	11	CONS.	10	CONS.	10	CONS.	7	CONS.	9	CONS.	9																	
																						LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER 00000	HEAT CODE	S/A	1	REMOTE REQ. #		CK DTE
																						LAST ACTUAL READINGS	179		0 METER SERIAL #	X-045196088	METER TEST DATE			
	033607			06154	106	11	F	331	1		896					896		896-		07154			1	KENNETH ROBERTS		1				1	
				07154	117	3*										06214				00000	896	N		1961 E SHALIMAR DR							
	PRIOR HISTORY		DATE READ	06154	DATE READ	05164	DATE READ	04154	DATE READ	03144	DATE READ	02154	DATE READ	01144																	
			CONS.	11	CONS.	9	CONS.	13*	CONS.	4	CONS.	5	CONS.	4																	
																						LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER 00000	HEAT CODE	S/A	1	REMOTE REQ. #		CK DTE
																						LAST ACTUAL READINGS	106		0 METER SERIAL #	X-046794353	METER TEST DATE			
	033805			06154	221	10	F	331	1		854					854		854-		07114			1	MIKE BUCKLEY		1				1	
				07154	231	3*										06214				00000	854	N		1939 E SHALIMAR DR							
	PRIOR HISTORY		DATE READ	06154	DATE READ	05164	DATE READ	04154	DATE READ	03144	DATE READ	02154	DATE READ	01144																	
			CONS.	10	CONS.	9	CONS.	21*	CONS.	8	CONS.	10	CONS.	10																	
																						LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER 00000	HEAT CODE	S/A	1	REMOTE REQ. #		CK DTE
																						LAST ACTUAL READINGS	221		0 METER SERIAL #	X-045196102	METER TEST DATE			
	*034001			06234		1	F	331	1		503									00000			1	LIFESTYLE HOMES	$P	1				1	
				07154	1	3*										00000				00000	503	N		1917 E SHALIMAR	8						
	PRIOR HISTORY		DATE READ	06234	DATE READ	00000	DATE READ	00000	DATE READ	00000	DATE READ	00000	DATE READ	00000																	
			CONS	Z	CONS.		CONS.		CONS.		CONS.		CONS																		
																						LAST ACTUAL READ DATE	06234	0	SERVICE NUMBER 00000	HEAT CODE	S/A	1	REMOTE REQ. #		CK DTE
																						LAST ACTUAL READINGS			0 METER SERIAL #	T-039290480	METER TEST DATE	06/94		
	034209			06154	274	22	F	331	1		1358					1358		1358-		07154			1	STEWART DILLON		1				1	
				07154	296	3*										06214				00000	1358	N		1895 E SHALIMAR DR							
	PRIOR HISTORY		DATE READ	06154	DATE READ	05164	DATE READ	04154	DATE READ	03144	DATE READ	02154	DATE READ	01144																	
			CONS	22	CONS.	18	CONS.	22	CONS.	12	CONS.	15	CONS.	13																	
																						LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER 00000	HEAT CODE	S/A	1	REMOTE REQ. #		CK DTE
																						LAST ACTUAL READINGS	274		0 METER SERIAL #	X-045196104	METER TEST DATE			
	034415			06154	209	4	F	331	1		686					686		4200-		07154			1	HARVEY L STRONG &		1				1	
				07154	213	3*										06214				00000	2828-	N		1873 E SHALIMAR DR							
	PRIOR HISTORY		DATE READ	06154	DATE READ	05164	DATE READ	05164	DATE READ	03144	DATE READ	02154	DATE READ	01144																	
			CONS	6	CONS.	N	CONS	183	CONS.	7	CONS	7	CONS	9																	
																						LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER 00000	HEAT CODE	S/A	1	REMOTE REQ. #		CK DTE
																						LAST ACTUAL READINGS	209		0 METER SERIAL #	X-045492325	METER TEST DATE			
	475501			06154		2	F	331	1		686					320				00000			1	ROTH DESIGN BUILDER	$	1				1	
				07154	2	3*										06214				00000	1006	N		2495 BRIERFIELD							
	PRIOR HISTORY		DATE READ	06154	DATE READ	06014	DATE READ	00000	DATE READ	00000	DATE READ	00000	DATE READ	00000																	
			CONS	3	CONS.	Z	CONS		CONS		CONS		CONS																		
																						LAST ACTUAL READ DATE	06014	0	SERVICE NUMBER 00000	HEAT CODE	S/A	1	REMOTE REQ. #		CK DTE
																						LAST ACTUAL READINGS			0 METER SERIAL #	T-039290603	METER TEST DATE	06/94		
	477507			06154	5	2	F	331	1		686					274				00000			1	ULG BUILDERS	$	1				1	
				07154	7	3*										06214				00000	960	N		2508 E COLWYN							
	PRIOR HISTORY		DATE READ	06154	DATE READ	06034	DATE READ	00000	DATE READ	00000	DATE READ	00000	DATE READ	00000																	
			CONS	3	CONS	Z	CONS		CONS		CONS		CONS.																		
																						LAST ACTUAL READ DATE	06034	0	SERVICE NUMBER 00000	HEAT CODE	S/A	1	REMOTE REQ. #		CK DTE
																						LAST ACTUAL READINGS	5		0 METER SERIAL #	T-039087077	METER TEST DATE	06/94		
	481509			06154		6	F	331	1		686					686		686-		07154			1	MAYER CONSTRUCTION	$	1				1*	
				07154	6	3*										06214				00000	686	N		2504 E BANCROFT CT							
	PRIOR HISTORY		DATE READ	06154	DATE READ	05164	DATE READ	04154	DATE READ	03184	DATE READ	00000	DATE READ	00000																	
			CONS	*	CONS	*	CONS.	3	CONS	Z	CONS.		CONS.																		
																						LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER 00000	HEAT CODE	S/A	1	REMOTE REQ. #		CK DTE
																						LAST ACTUAL READINGS			0 METER SERIAL #	T-038988154	METER TEST DATE	03/94		
	482010			06154	11	10	F	331	1		854					7.28				00000			1	WILLIAM L MINSHEW	$	1				1	
				07154	21	3*										06214				00000	1582	N		2497 E BANCROFT							
	PRIOR HISTORY		DATE READ	06154	DATE READ	05164	DATE READ	04154	DATE READ	04064	DATE READ	00000	DATE READ	00000																	
			CONS	7*	CONS	43	CONS	3	CONS	Z	CONS.		CONS																		
																						LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER 00000	HEAT CODE	S/A	1	REMOTE REQ. #		CK DTE
																						LAST ACTUAL READINGS	11		0 METER SERIAL #	T-038988309	METER TEST DATE	04/94		
	485005			06154		3	F	331	1		686					206		206-		07154			1	SHILOH DEVELOPMENT	$	1				1	
				07154	3	3*										06214				00000	686	N		2448 E ASHBROOK CT							
	PRIOR HISTORY		DATE READ	06154	DATE READ	06064	DATE READ	00000	DATE READ	00000	DATE READ	00000	DATE READ	00000																	
			CONS	3	CONS	Z	CONS		CONS		CONS		CONS																		
																						LAST ACTUAL READ DATE	06064	0	SERVICE NUMBER 00000	HEAT CODE	S/A	1	REMOTE REQ. #		CK DTE
																						LAST ACTUAL READINGS			0 METER SERIAL #	T-039086929	METER TEST DATE	06/94		
	493009			06154	2	3	F	331	1		686					686				00000			1	KELLY TROUTNER	$	1				1	
				07154	5	3*										06214				00000	1372	N		1642 N TRELLIS PL							
	PRIOR HISTORY		DATE READ	06154	DATE READ	05164	DATE READ	04214	DATE READ	00000	DATE READ	00000	DATE READ	00000																	
			CONS	2	CONS	3	CONS	Z	CONS		CONS		CONS																		
																						LAST ACTUAL READ DATE	06154	0	SERVICE NUMBER 00000	HEAT CODE	S/A	1	REMOTE REQ. #		CK DTE
																						LAST ACTUAL READINGS	2		0 METER SERIAL #	T-039095455	METER TEST DATE	04/94		

ACBS-21 5/78

HES DATA FROMS, INC

GENERAL WATERWORKS
AUTOMATED CUSTOMER BILLING SYSTEM (95) EM2 INC.

BOOK #055 BILL DATE07/20/94 CUTOFF DATE08/16/94 CYCLE *M* PAGE # 012

BILLING REGISTER

NEW	ACCT #	CUST CK	METER-OUT / METER-IN	DATES PREVIOUS / CURRENT	READINGS PREVIOUS / CURRENT	CURRENT BILLING INFORMATION: CONS. / # OF DIALS	UNIT	MET	REV	WAT TF / SEW TF	WATER COST / SEWER COST	OTHER CHARGE CODE	OTHER CHARGE / OTHER CHARGE	OTHER CHARGE CODE	OTHER CHARGE / OTHER CHARGE	LAST BILLING BALANCE / DATE	CREDIT	TOTAL PAID / NET ADJ.	LATEST DATE / DATE	CURRENT GROSS / NET	STATUS	CUSTOMER NAME / SERVICE ADDRESS	BILL CODES	# OF MINIMUMS OR MAXIMUMS	METER CONDITION	1	2	RETURN
	494007			06154 / 07154	1 / 3	2 / 3*	F	3	1	1 /	686 /					686 / 06214		686 /	07154 / 00000	1 / 686		LEGACY HOMES / 1598 N TRELLIS PL	$	1				1
PRIOR HISTORY				DATE READ 06154 / CONS. 1	DATE READ 05164 / CONS. 3	DATE READ 05054 / CONS. Z										DATE READ 00000 / CONS.		DATE READ 00000 / CONS.		LAST ACTUAL READ DATE 06154 / LAST ACTUAL READINGS 1		SERVICE NUMBER 00000 / METER SERIAL # T-039087089	HEAT CODE S/A-1	REMOTE REG. #	METER TEST DATE 05/94	CK DTE		
	494502			06154 / 07154	5 / 5	3*	F	3	1	1 /	686 /					686 / 06214		686 /	07154 / 00000	1 / 686		TRADEMARK HOMES INC / 1576 N TRELLIS CT		1				1
PRIOR HISTORY				DATE READ 06154 / CONS. 2	DATE READ 05164 / CONS. 3	DATE READ 04154 / CONS. 3						DATE READ 04064 / CONS. Z				DATE READ 00000 / CONS.		DATE READ 00000 / CONS.		LAST ACTUAL READ DATE 06154 / LAST ACTUAL READINGS 5		SERVICE NUMBER 00000 / METER SERIAL # T-038988311	HEAT CODE S/A-1	REMOTE REG. #	METER TEST DATE 04/94	CK DTE		
	*495509			06154 / 07154	3 / 3	3*	F	3	1	1 /	686 /					00000 / 00000			00000 / 00000	1 / 686		TRADITIONS INC / 1615 N TRELLIS	$	1				1
PRIOR STORY				DATE READ 06154 / CONS. Z	DATE READ 00000 / CONS.	DATE READ 00000 / CONS.						DATE READ 00000 / CONS.				DATE READ 00000 / CONS.		DATE READ 00000 / CONS.		LAST ACTUAL READ DATE 06154 / LAST ACTUAL READINGS 0		SERVICE NUMBER 00000 / METER SERIAL # T-039290528	HEAT CODE S/A-1	REMOTE REG. #	METER TEST DATE 06/94	CK DTE		
	496002			06154 / 07154	2 / 3	1 / 3*	F	3	1	1 /	686 /					960 / 06214		1234- /	07114 / 00000	1 / 412		THOMAS A LYNCH / 1637 E TRELLIS PL		1				1
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AC85-21 5/78 FO

HEG DATA PRODS. INC

NOV 0 8 1995

State of Id D
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

WA

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

July 14, 1994

Katherine Shiflet, Assistant Manager
Boise Water Corporation
PO Box 7488
Boise, ID 83707

RECEIVED
JUN 27 1994
Department of Water Resources

RE: Permit No. 63-11413 for the City of Eagle

Dear Ms. Shiflet:

Thank you for recently submitting the well data for the "Lexington Hills" wells as required by Condition No. 8 of Permit No. 63-11413. Your prompt attention to this matter is appreciated.

Please mark your calendar for the first week of July and the first week of January of each year. These are the times when the data for the preceding six month period should be sent to this office in the interests of protecting the water right.

If I can offer any assistance to you regarding this water right, please contact me at 334-2190.

Sincerely,

Steve Lester
Water Rights Supervisor

c: Mona Mack and Susan Buxton, City Attorneys

NOV 08 1995

Steve ✓

EM²
General Waterworks Corporation

RECEIVED
JUL 0 1 1994
WATER RESOURCES
WESTERN REGION

June 29, 1994

Dan

Mr. David R. Tuthill Jr., P.E.
Idaho Department of Water Resources
Western Region
2735 Airport Way
Boise, Idaho 83705-5082

Re: Permit No. 63-11413 for the City of Eagle

Dear Mr. Tuthill:

The following information pertains to the period from 12/28/93 to 6/24/94:

Total for Well No. 1 - 46,260,000 gallons -142 af } 177.4 af

Total for Well No. 2 - 11,530,000 gallons -35.4 af }

This should provide you with the information you require. Should you need further assistance at this time, please call.

Well data will be summarized & evaluated for 1994 in JAN. 1995 as did in JAN 1994 for 1993 data. -SC

Very truly yours,

BOISE WATER CORPORATION

Katherine Shiflet

Katherine Shiflet
Assistant Manager

KS:bgh

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NOV 08 1995

B. & A. Engineers, Inc.

CONSULTING ENGINEERS AND SURVEYORS
5505 W. Franklin Road
Boise, Idaho 83705-1055
Telephone - (208) 343-3381 • Fax (208) 342-5792

RECEIVED
JUN 28 1994
WATER RESOURCES
WESTERN REGION

June 24, 1994

Mr. Steve Lester
State of Idaho
Department of Water Resources
Western Region
2735 Airport Way
Boise, Idaho 83705-5082

Dear Mr. Lester:

Subject: Irrigation System - Echo Creek Subdivision - Water Right Permit No. 63-11413

I am the project engineer for the subject development. It has come to my attention that questions have been raised regarding the status of the pressurized irrigation system in Echo Creek No. 1 Subdivision.

The primary source of irrigation water for our subdivision is a water amenity lake in our neighboring Lexington Hills Subdivision. Our irrigation system primary pumps are located in a pump house along the northerly shore of this lake. Currently one of the two pumps is in place and operable. The second pump will be operable soon, but it is not needed at this time due to the small number of current irrigation water users. Approximately only one-half of the total number of proposed lots within Echo Creek have been developed todate.

A small pumping station is nearly complete at this time in our small lake that is located just east of our subdivision entrance off of Floating Feather Road. This pumping station is not a primary source of irrigation water and is intended only as a recycling measure for recovering sprinkler irrigation water that enters our lake via concrete gutters in the streets. The developer was interested in recycling this water as a conservation measure for water.

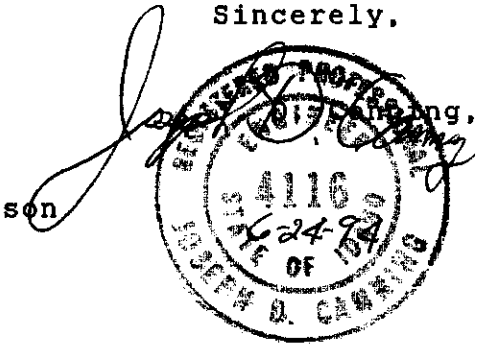
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NOV 08 1995

B. & A. Engineers, Inc. 5505 W. Franklin Road • Boise, Idaho 83705-1055

The irrigation system within Echo Creek No. 1 Subdivision is operational and functioning. Pipelines have been installed that are capable of delivering irrigation water to each lot within the subdivision in substantial compliance with our enclosed construction plan layout. The one deviation that I am aware of from the plan is that the pipelines installed were 160 psi PVC instead of the 200 psi shown on the plan.

Please call me, or Carlyle Briggs, in our office with any questions you may have.

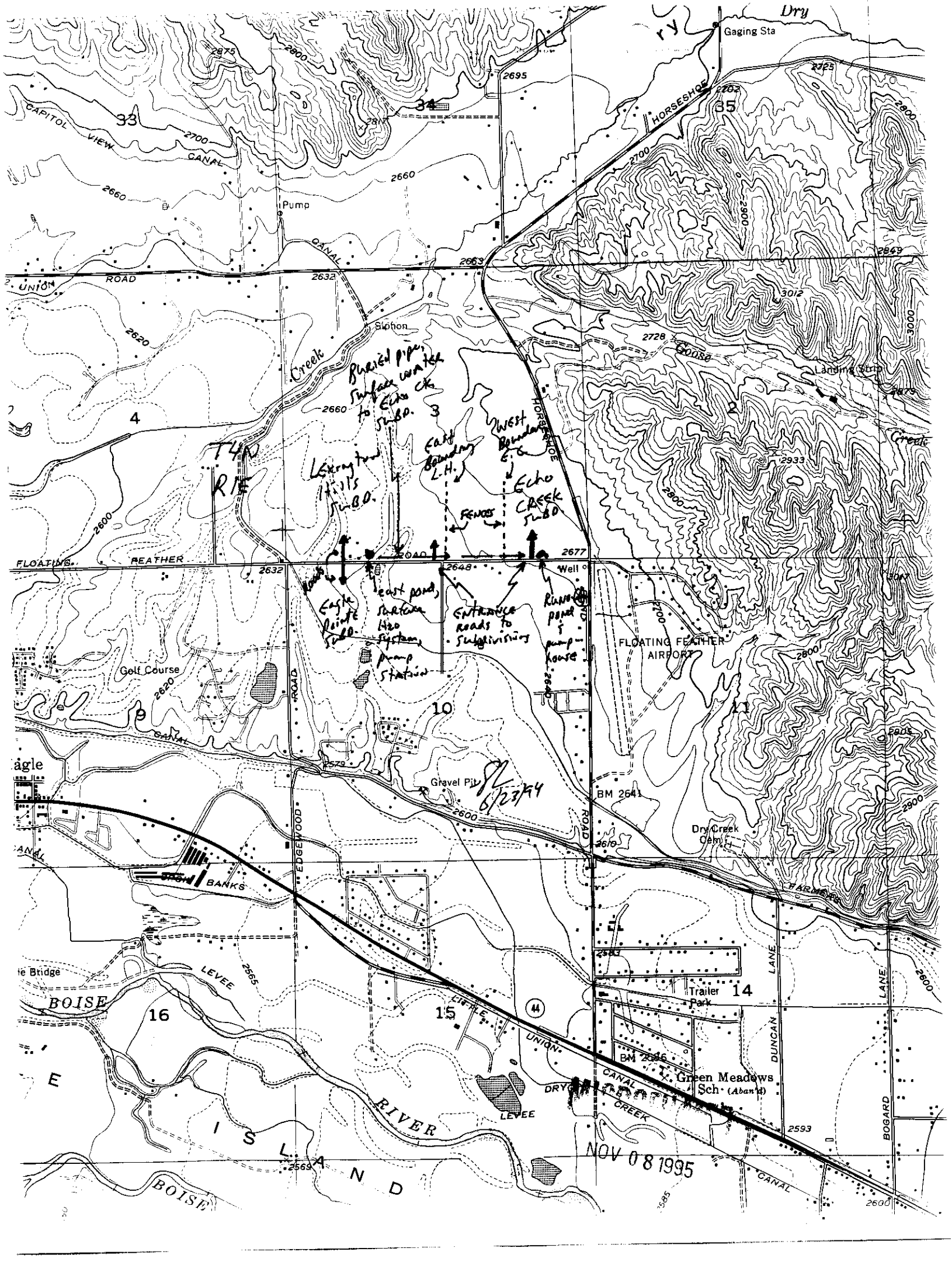
Sincerely,



[illegible]ng, P.E.

pc. Bill Guhrke
Stan McHutchinson

NOV 0 8 1995

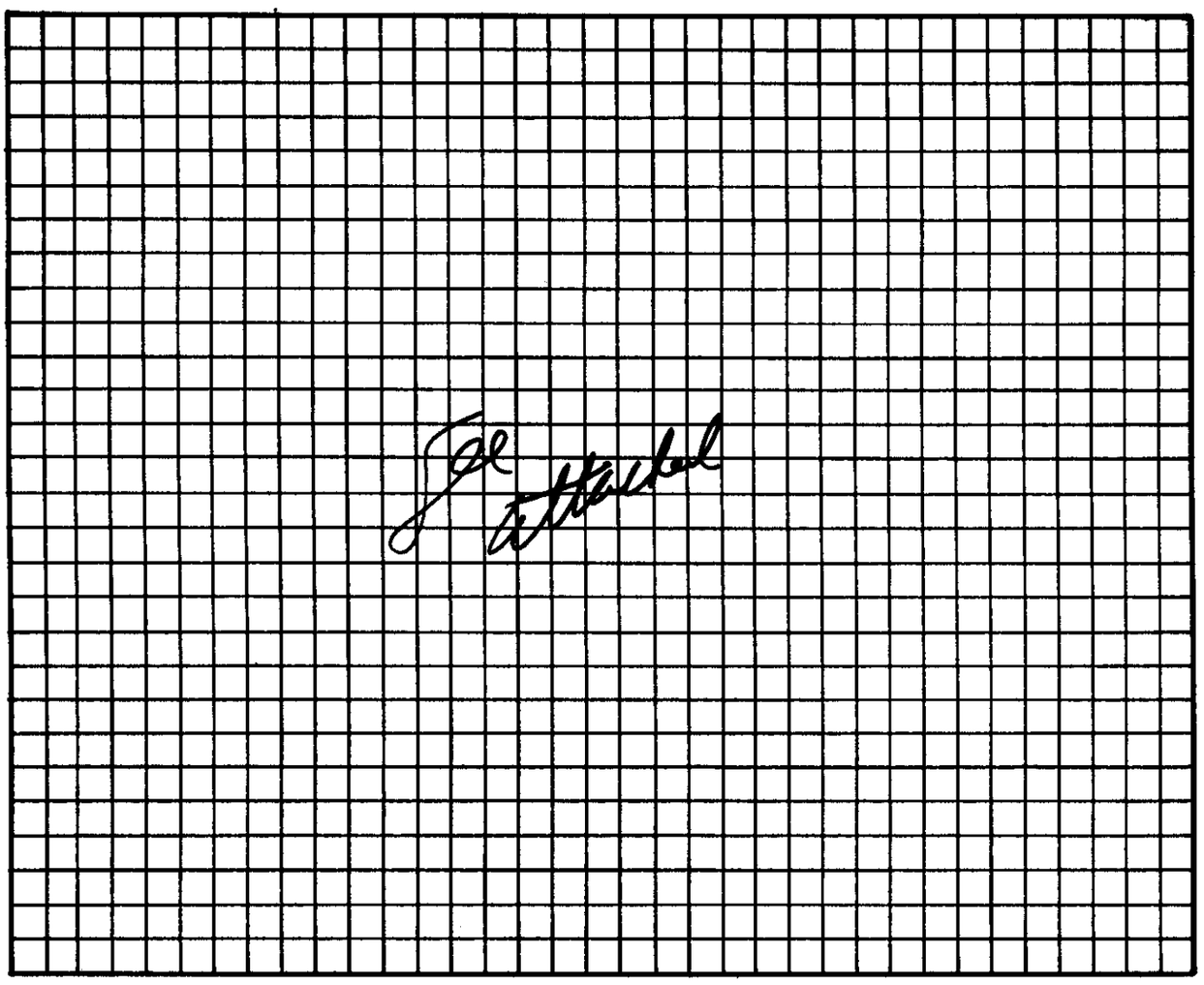

Dry
Gaging Sta
HORSESHOE
CAPITOL VIEW CANAL
Pump
CANAL
UNION ROAD
Station
Creek
Buried pipe, surface water to Echo Ck. SubD.
Leaching fields SubD.
East Boundary L.H.
West Boundary E.L.
Echo Creek SubD.
FENCES
FLOATING FEATHER
Eagle Pointe SubD.
East pond, surface H2o system, pump station
ENTRANCE ROADS to Subdivisions
Well
Pump house
FLOATING FEATHER AIRPORT
Golf Course
EDGEWOOD ROAD
Gravel Pit
6/23/94
BM 2641
Dry Creek Cem.
BANKS
Trailer Park
Green Meadows Sch. (Aband)
BM 2636
DRY CREEK
LEVEE
BOISE
RIVER
ISLAND
NOV 08 1995
Landing Strip
Goose
Creek
DUNCAN LANE
BOGARD
FAIRVIEW
UNION PACIFIC RR
CANAL

16. Remarks Appears surface water available to all lots but not all hook-ups completed yet. Catchment pond with new pumphouse just to east of Echo Ck. entrance will recirculate reuse water so just augments the surface water system.

17. Followup Necessary: ✓ Yes ___ No Describe:

① City Engr. will have Subd. Engr provide letter & plans re surface water system to Western Region (Joe Canning, B&A Engr).
② Verify compliance at individual lot level - will city handle this?

18. Sketch: Include direction, important dimensions, photo locations, landmark or reference point



~~19. Action taken at time of inspection:~~ 3 photos

① North view back yard 3041 E. Red Tail Drive; surface flow bib, buried line to house. ② East view Echo Ck. Subd. catchment pond & p'house.
③ NE view surface water pond & pump station in Lexington Hills .7 mi E. Hwy 55 - where buried line to Echo Ck. begins.

20. Signed: Steve M. Lester

21. Follow up action: Date: ___ Additional Memo Prepared: ___ Yes ___ No

Describe:

NOV 08 1995

22. Signed: ___

ALSO called city atty. office re Remedial Act Initiation due for 1/2 1994 & 6/30 - say by 1st week July. (Condition #8 ID permit)

File No. 63-11413

STATE OF IDAHO
Department of Water Resources

FIELD INSPECTION REPORT

~~being developed~~ attached

1. Date: 6/23/94 Time: 10 A.m. Photos: ✓ Yes ___ No

2. Inspection involves: ✓ Water Rights ___ Dam Safety ___ Well Construction or Driller
___ Waste Well ___ Stream Channel Alteration ___ Water Distribution
___ Other ___

3. Reason for inspection: Check availability of surface water (Farmers Union) for irrigation in Gch. Ck (aka Trail Ck.) Subd. (CONDITION #6)

4. Stream name: ___

5. Stream characteristics: ___

6. Stream width: ___ Depth: ___ Gradient: ___ Q: ___ est. ___ meas. ___

7. Location: ~~1/4~~ ___ 1/4, Sec. 3, Twp. 4N, Rge. 1E, County Ada

Landmark: ___

8. Person(s) contacted: Stan McHutchison City Engr for Eagle

9. Dam name: ___ Spilling: ___ No ___ Yes Q ___

Outlet open: ___ No ___ Yes Q ___ Spillway open: ___ Yes ___ Flbrd ___ Gate open

Freeboard: Spillway ___ Crest ___ Res. stage: ___ Rising ___ Falling ___ Rate

10. Area characteristics: ___

11. Weather conditions: Hot & dry

12. Describe activity/conditions inspected: Toured subd. & was told that buried line on N. side of Floating Feather provides surface water from Lexington Hills similar system. Pipe enters @ Gch Ck. entry road @ .2 mi. west of Hwy 55. Was told all lots provided with hose bib to hook up for lawn use from surface system. Saw some risers in action. Also saw at least 1 yard being watered

13. Are all requirements being met? ___ Yes
If not, check type violated: ___ Statutory ___ Rules & Regs ___ Permit

14. ~~Describe impact on others~~: from ground water hook-up (in front yard of 3041 E. Red Tail Dr.). Was told that @ 4 homes with yards are not totally hooked to surface system (if at all - can have dual situation as at 3041 E. Red Tail home). City is trying to get these owners to hook to

15. ~~Describe alternatives:~~ surface water bibs (Re: 6/16 conv. memo with City Atty. Mona Mack). Most but not all homes have irrigated yards - some have not ~~gotten~~ completed landscaping yet.

Contrast with photo #1, surface for water for back yard

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Permit 63-11413 Photos taken 6/23/94 Pg 1 of 2

VIEW North of back yard at 3041 E. Red Tail DR. in Echo Ck. Sub.

VALVE(S) for surface water, buried line to hose connection.

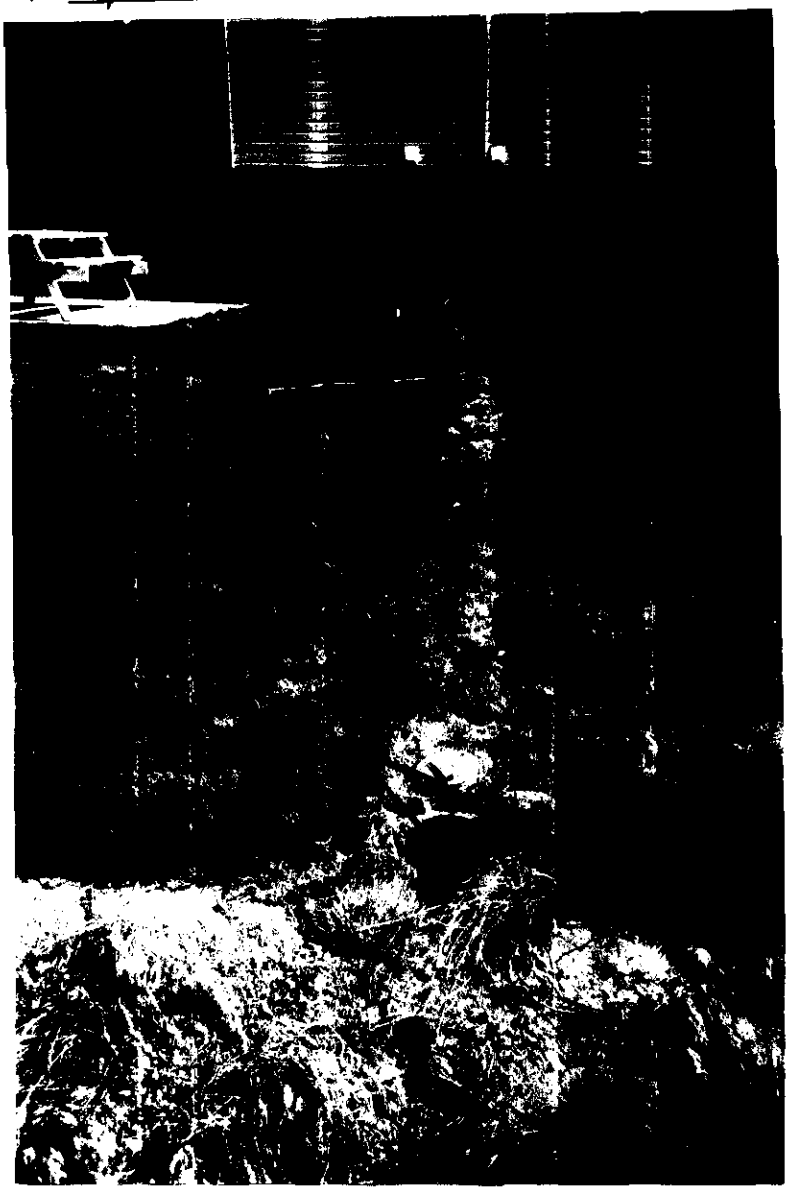


PHOTO ONE-

>

VIEW EAST of Runoff catchment pond & pumphouse to recirculate water to surface water distribution system.



PHOTO TWO-

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PHOTO THREE-

NE view of surface water pond + pump station in Lexington Hills subd. water piped from here via buried main to surface water distribution system in Echo Ck. subd.

PHOTO FOUR-

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CONVERSATION MEMORANDUM

DATE 6/16/94

FILE 63-11413

NAME OF PARTY Mona Mark, City Atty

EMPLOYEE Steve Lorton

RE:

Called me to update:

Received fax 6/15 from R. Burleigh (See copy for IDWR in File).

Letter from city Engr. is that all but 3-4 homes using surface water. Risers available for each lot at property line.

Results from City council mtg: no hearings but City send letter to all owners (cc to IDWR) with particular emphasis to 3-4 not in compliance that if do not start using surface water, City will terminate well water to that lot.

Suggested IDWR & City Engr. inspect on-site to verify what's in place & being used. I said earliest I could do is next Thurs 6/23 A.m. - She or Engr's office will let me know.

Looks like moving in right [redacted] still not where should be.

NOV 08 1995

CONVERSATION MEMORANDUM

DATE 6/14/94

FILE 63-11413

NAME OF PARTY Susan Buxton, et al

EMPLOYEE Dave Tuthill

RE: Cease & Desist

I discussed w/ Susan our position in this matter - that I don't see any alternative to issuing a Cease & Desist Order if water from the well is used as the primary irrigation source on some lawns within the subdivision.

Mona Mack returned the call to say there is a City Council Meeting tonight and she will recommend that the council seek court action to compel the users to comply with the requirements of the water right. I advised her that we will follow the process and will not take further action until we discuss her progress on this matter.

I advised Norm Young of the status of this file.

DAT

NOV 08 1995

CONVERSATION MEMORANDUM

DATE 6/13/94

FILE 63-11413

NAME OF PARTY Paul Dangosch 396-4666 (work)

EMPLOYEE Steve Leth

RE: Condition #6

Paul is Pres. of Echo (Trail) Ck. H.O. Assoc.

His understanding of situation:

Developer has agreed to put mass. surface water system in & place risers @ each property lines. Homeowners would then connect. Exception: Those owners with existing sprinkler systems & who signed agreements with developer (re liability etc) would get their systems connected by developer.

Believes that some if not all risers in place at property lines. Thinks that looking to existing sprinkler systems per lots, now occurring but not complete.

Appears at least some owners using solely well water to irrigate.

My conclusion

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Dave - Responses re your letter

& cond. #6

Requests for follow-up contact by:
- Susan Burton AHg's office for City
- Richard Burleigh " " " TREAS. Valley Village (2)
- Dick Larsen S.O. -SL

SL 6/13

Dave

6/9 { Stan M. - letter/fax - press system in Energy Grid for all phases Echo Ck. Richard B. - letter - next week to discuss but should be by 6/15.

6/13 { Karen J. / Paul D. } appear at least some owners using well water to irrigate as this date.

CONVERSATION MEMORANDUM

DATE 6/13/94

FILE 63-11413

NAME OF PARTY Karen Jones 939-2565

EMPLOYEE Steve Lotz

RE: Condition #6

Karen is a homeowner in Echo Ck. Has own equitable system in place & has had for quite awhile. Not connected to person surface water system. Did not sign agreement with developer & making the final connection. Said Eagle Landscaping doing work on system now (thought Echo Ck).

Concerned & receiving $ fine at her home (mentioned someone checking power bills & well use) for not using surface water. Said has been ready to use " " for long time but not available.

Lots of discussion & this is a Low C.D., civil penalties, etc. process wanted. Had no definite answers for her now since DOE in process of clarifying its cond. #6.

My conclusion: Appears at least some owners using only well water to irrigate.

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CONVERSATION MEMORANDUM

DATE 6/10/94

FILE 63-11413

NAME OF PARTY Dick Larsen

EMPLOYEE Steve Leth

RE: PUBLIC INFO PROFILE

Requested that Region contact him:

1) if going to take action on violation of permit; OR

2) if not going " " " "

Also suggested contacting him on any sensitive thing like this, especially growth-related syndrome, so that dept. can prepare proper P.I. strategy.

MICROFILMED

NOV 08 1995

HAWLEY TROXELL ENNIS & HAWLEY
ATTORNEYS AND COUNSELORS
FIRST INTERSTATE CENTER
SUITE 1000
POST OFFICE BOX 1617
BOISE, IDAHO 83701

TELEPHONE
(208) 344-6000

FAX
(208) 342-3829

POCATELLO OFFICE
135 NORTH GARFIELD
POST OFFICE BOX 4167
POCATELLO, IDAHO 83205

TELEPHONE
(208) 233-0845

RICHARD B. BURLEIGH

June 15, 1994

VIA FACSIMILE AND REGULAR MAIL

Mona Mack
Moore & McFadden Chartered
999 Main Street, Suite 910
Boise, Idaho 83702

Re: Echo Creek Subdivision Water Use

Dear Mona:

After speaking with you this morning, I spoke with Bill Guhrke regarding the review of the property by the city engineer. It appears as if everything is fine. All but four homes are hooked up or using the pressurized irrigation system and those four homes do not yet have landscaping installed. Stan McHutchinson should be able to document this for both you and IDWR.

I spoke with Steve Lester at IDWR's Western Region office and he informed me that IDWR has shelved this issue until the 27th of June, a fact of which you were apparently unaware. We should therefore have plenty of time to iron out any wrinkles that may appear. Notwithstanding any unforeseen events, it appears as if the permit is quite safe and sound.

Please let me know immediately if any of the above does not comport with your view of the situation or if we need to discuss further matters regarding the Echo Creek Subdivision.

Sincerely,

Richard B. Burleigh

cc: David Tuthill

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NOV 08 1995

I think this is much to upbeat given the circumstances. I told him on 6/15 A.m. that we are very concerned & that final decision re what to do not yet reached - appears C&O will be the route but this matter still under consideration.

-JR 6/16/64

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JUN 0 9 1994
WATER RESOURCES
WESTERN REGION

HAWLEY TROXELL ENNIS & HAWLEY
ATTORNEYS AND COUNSELORS
FIRST INTERSTATE CENTER
SUITE 1000
POST OFFICE BOX 1617
BOISE, IDAHO 83701

TELEPHONE
(208) 344-6000

FAX
(208) 342-3829

POCATELLO OFFICE
125 NORTH GARFIELD
POST OFFICE BOX 4167
POCATELLO, IDAHO 83205

TELEPHONE
(208) 233-0845

RICHARD B. BURLEIGH

June 9, 1994

HAND DELIVERED

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Idaho Department of Water Resources
2735 Airport Way
Boise, Idaho 83705-5082

Re: Water Right Permit No. 63-11413/Echo Creek Subdivision

Dear Mr. Tuthill:

This letter is in response to your letter dated June 3, 1994 and is intended to provide information addressing the perceived violation of Condition No. 6 of the above-referenced water right permit.

The Idaho Department of Water Resources concluded that Condition No. 6 requires that surface irrigation water appurtenant to the property constituting the Echo Creek Subdivision be utilized for irrigation purposes prior to the use of any groundwater for such purposes. As you are aware, Phase I of the Echo Creek Subdivision, unlike the other phases of the subdivision, was developed without utilizing surface irrigation water. Pursuant to the directions from your office, the developer, Treasure Valley Village, incorporated Phase I into the pressurized irrigation system designed to utilize the appurtenant surface irrigation water.

A brief description of the delivery system is as follows. The surface irrigation water is initially diverted out of the Farmers Union Canal and into the Lexington Hills Subdivision's lake through a system owned and operated by Lexington Hills. From Lexington Hills' lake, the irrigation water is then pumped into the pressurized system for delivery to the lots in the Echo Creek Subdivision. Smaller storm water

NOV 0 8 1995

ponds within the Echo Creek Subdivision are used to supplement this system when water is available in the ponds. The pressurized irrigation system is operated by Echo Creek Water Users Association, Inc. The Water Users Association provides for the maintenance and operation of the system and collects from the homeowners the fees and expenses related to the system.

Prior to construction, the homeowners in Phase I requested the right to review the designs of the pressurized irrigation system. The City of Eagle also insisted on having a role in the review of the designs. As a result, actual construction of the system was delayed for over a month. Nevertheless, by May 5, 1994 the pressurized irrigation system had been stubbed into the yards of and available for use by all homeowners in Phase I. Further, all common ground within the Echo Creek Subdivision has been irrigated by surface irrigation water since May 12, 1994.

As part of the negotiations between Treasure Valley Village and the homeowners, Treasure Valley Village agreed to not only stub the pressurized irrigation system into the yards of certain homeowners but to connect the pressurized irrigation system to their existing sprinkler systems or provide the homeowners with hose bibs in their yard at the location of their choice. As of June 6, 1994, 17 lots had been connected to the pressurized irrigation system through this agreement and are using surface irrigation water for irrigation. An additional 16 lots will be connected to the pressurized irrigation system by Treasure Valley Village no later than June 15, 1994.

The remaining homeowners in Phase I have not entered into an agreement with the Treasure Valley Village for the connection of either their existing sprinkler systems or for the installation of hose bibs in their yards. Consequently, these homeowners are obligated to utilize the pressurized irrigation system at their own cost. Neither the Water Users Association nor Treasure Valley Village believe they have the authority to require any of these homeowners who are not utilizing the pressurized irrigation system to do so. Moreover, it was the understanding of Treasure Valley Village that it would meet its obligations under Condition No. 6 if each homeowner in Phase I was provided with access to the pressurized irrigation system. This has been done.

NOV 08 1995

Treasure Valley Village has acted in good faith in its efforts to comply with Condition No. 6 as interpreted by the Idaho Department of Water Resources. Treasure Valley Village has not delayed installation of the pressurized irrigation system. Rather, Treasure Valley Village, at great expense, has installed the pressurized irrigation system as quickly as conditions allowed. As noted, complete utilization of the pressurized irrigation system, to the extent possible through the efforts of Treasure Valley Village, will be final within a week.

Treasure Valley Village intends to cooperate fully with the Department with regard to the permit and its conditions. No actions of Treasure Valley Village are intended to threaten the validity of this permit. To facilitate communication between the parties, please contact the undersigned to discuss the Department's concerns regarding Condition No. 6 more fully. Thank you for your cooperation in this matter.

Sincerely,

HAWLEY TROXELL ENNIS & HAWLEY

Richard B. Burleigh

RBB:ag
cc: Steve Lester
William Guhrke
Susan Buxton
Merrilee Munther

NOV 0 8 1995

ENGINEERING
BRIGGS
INC.

RECEIVED
JUN 10 1994
WATER RESOURCES
WESTERN REGION

Mr. David R. Tuthill, Jr., P.E.
State of Idaho
Department of Water Resources
Western Region
2735 Airport Way
Boise, Idaho 83705-5082

June 9, 1994

Re: Water Right Permit No. 63-11413

Dear Mr. Tuthill:

In response to your letter dated June 3, 1994, I offer the following.

On June 8th, I spoke to Steve Lester. From what he told me, it appears a simple explanation will clear up the issue that is the topic of your letter.

The pipe for the pressurized irrigation system has been installed in all phases of the Echo Creek Subdivision. Also, this system has already been energized. The pump station supplying water to this system is located at a pond in Lexington Hills Subdivision. The pond adjacent to Floating Feather Road in Echo Creek Subdivision was only planned to contain a small pump to be used to supplement the irrigation water when surface runoff emptied into this pond.

Since the source of water for the pond in Lexington Hills comes from the Farmers Union Canal, I feel that condition number six of Water Right Permit No. 63-11413 is not being violated.

Please cal me if you have any questions.

Sincerely,

BRIGGS ENGINEERING, Inc.

Stan McHutchison

Stan McHutchison, P.E.
Eagle City Engineer

cc: Barbara Montgomery
Mona Mack, Esq.
Lexington Hills, Inc.
Bill Guhrke
Richard Burleigh, Esq.
Boise Water Corporation
Glen Saxton
Norm Young

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NOV 08 1995

940128-03

1111 S. Orchard, Suite 600 • Boise, Idaho 83705 • (208) 344-9700 Fax# (208) 345-2950

HAWLEY TROXELL ENNIS & HAWLEY
Attorneys and Counselors

First Interstate Center
877 Main Street, Suite 1000
Boise, Idaho 83702

Telephone: (208) 344-6000
FAX: (208) 342-3829
Electronic Data Transfer: (208) 344-6290

FAX COVER SHEET

June 15, 1994

Confidentiality Notice: This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return the original message to us at the above address via the US Postal Service. Thank you.

TO: Mr. David Tuthill
Idaho Dept. of Water Resources
Western Regional Office
2735 Airport Way
Boise, ID 83705
FAX number: 334-2348
Voice number: 334-2190

RECEIVED
NOV 08 1995

FROM: Richard B. Burleigh
HAWLEY TROXELL ENNIS & HAWLEY
HTEH File No. 4540-3

RE: Echo Creek Subdivision Water Use

PAGES: Number of pages, including this cover sheet: 2

CALL BACK: If the transmission to you was incomplete or not legible, please call the individual above listed at (208) 344-6000 or call the FAX operator at (208) 344-6000, ext. 640.

ADDITIONAL MESSAGE:

BRIGGS ENGINEERING INC

RECEIVED
JUN 09 1994
WATER RESOURCES
WESTERN REGION

Mr. David R. Tuthill, Jr., P.E.
State of Idaho
Department of Water Resources
Western Region
2735 Airport Way
Boise, Idaho 83705-5082

June 9, 1994

Re. Water Right Permit No. 63-11413

Dear Mr. Tuthill

In response to your letter dated June 3, 1994, I offer the following.

On June 8th, I spoke to Steve Lester. From what he told me it appears a simple explanation will clear up the issue that is the topic of your letter.

The pipe for the pressurized irrigation system has been installed in all phases of the Echo Creek Subdivision. Also, this system has already been energized. The pump station supplying water to this system is located at a pond in Lexington Hills Subdivision. The pond adjacent to Floating Feather Road in Echo Creek Subdivision was only planned to contain a small pump to be used to supplement the irrigation water when surface runoff emptied into this pond.

Since the source of water for the pond in Lexington Hills comes from the Farmers Union Canal, I feel that condition number six of Water Right Permit No. 63-11413 is not being violated.

Please call me if you have any questions.

Sincerely,

BRIGGS ENGINEERING, Inc.

Stan McHutchison

Stan McHutchison, P.E.
Eagle City Engineer

cc: Barbara Montgomery
Mona Mack, Esq.
Lexington Hills, Inc.
Bill Guhrke
Richard Burleigh, Esq.
Boise Water Corporation
Glen Saxton
Norm Young

MICROFILMED
NOV 08 1995

940128-03

1111 S. Orchard, Suite 600 • Boise, Idaho 83705 • (208) 344-9700 Fax# (208) 345-2950

EAGLE NURSERY

3182 East State Street • Eagle, Idaho 83616 •

Telephone: (208) 939-8723
Fax: (208) 939-9144

TO DAVID R. TUTHILL:

JUST ONE HOUR AGO WE RECEIVED YOUR LETTER DATED JUNE 3, 1994 REGARDING WATER RIGHT PERMIT NO. 63-11413.

IN RESPONSE TO YOUR LETTER, WE HAVE BEEN WORKING FULL TIME TO COMPLETE THE ECHO CREEK SYSTEM. WE ARE CURRENTLY HALF COMPLETE AND PROJECT SHALL BE FINISHED JUNE 17TH (NEXT WEEK).

WE APOLOGIZE FOR THE DELAY.

SINCERELY,

LONNIE MORRIS / EAGLE LANDSCAPE CONTRACTORS, INC.
ASSISTANT ADMINISTRATOR

RECEIVED
JUN 0 9 1994
WATER RESOURCES
WESTERN REGION

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NOV 0 8 1995

EAGLE NURSERY
3182 East State Street • Eagle, Idaho 83616 •
Telephone: (208) 939-8723
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WE APOLOGIZE FOR THE DELAY.

SINCERELY,

LONNIE MORRIS / EAGLE LANDSCAPE CONTRACTORS, INC.
ASSISTANT ADMINISTRATOR

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NOV 08 1995

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

June 3, 1994

City of Eagle
P.O. Box 477
Eagle, ID 83616

RE: Water Right Permit No. 63-11413 in the Name of the City of Eagle

Ladies and Gentlemen:

The purpose of this letter is to notify you that Condition No. 6 of the above-referenced water right permit in your name is presently being violated.

In my letter in this matter dated August 20, 1993, I indicated that the Department would not allow irrigation from solely ground water after the 1993 irrigation season. I inspected the Echo Creek system this week and found that the surface water irrigation system is not yet fully installed, even though surface water has been available in the Farmers Union Canal for more than a month.

Please be advised that unless I receive convincing information to the contrary by mail or by facsimile no later than the afternoon of Thursday, June 9, 1994, I will plan to pursue the issuance of a formal Cease and Desist Order to the permit holder of record, the City of Eagle, soon thereafter, pursuant to §42-351, I.C.

I will be out of the office during working hours for the week of June 6 - 10. If any recipient of this letter wishes to discuss the matter telephonically, please leave a message and I will attempt to return the call.

Sincerely,

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office

cf: Mona Mack, Esq.
Lexington Hills, Inc.
Bill Guhrke
Richard Burleigh, Esq.
Boise Water Corporation
Glen Saxton
Norm Young

NOV 08 1995

CONVERSATION MEMORANDUM

DATE 6/8/94 @ 4:30

FILE 63-11413

NAME OF PARTY Susan Buxton 331-1800 ← Attorney's office for City of Eagle

EMPLOYEE Steve Keller

RE: COND. #6 VIOLATION

This is the last call today @ the situation. We discussed the same info described in conv. memo earlier today (Stan McCutcheon).

Her request:

1) If don't receive written reply from City of Eagle (probably Stan M. will do) by MONDAY 6/13, call Susan.

2) Prior to IDWR action in this matter, if any, contact Susan.

I told her of my concern that we receive a written reply to DRT's 6/3/94 letter by 6/9. A day or 2 late probably ok based on telephone info of last few days, but do not want to see, once again, a greatly overdue response from the permit ~~owner~~ applicant as has been experienced in past episodes with this right.

NOV 08 1995

She said she will coordinate with Stan M. to see that reply is ~~timely~~ timely.

CONVERSATION MEMORANDUM

DATE 6-8-94

FILE 63-11413

NAME OF PARTY Stan McCutchion City of Gaylord Engineer 345-2881

EMPLOYEE Steve Lester

RE: COND. # 6 VIOLATION

Called to explain that pressurized irrig. system from canal water is & has been in use at Echo Ck. & is hooked up to same system for surface water via Lexington Hills subd.

Said that pond near Hwy 55 & FL Feather is a making pond for storm/waste water & will have small pump (recall cement cistern w/o pump) to assist in this.

So each lot in Echo Ck. has press. irrig water from canal & only way to "see" this is to check each home.

Will send letter confirming this request - very busy right now but hope can fax/send letter by 6/9 - if not, will be very shortly after that.

→ From this it appears that violation is not occurring.

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(NOTE Richard Burleigh, attorney, called yesterday & indicated same info w/o as much detail.)

ENGINEERING
BRIGGS
INC.

RECEIVED
JUN 10 1994
Department of Water Resources

Mr. David R. Tuthill, Jr., P.E.
State of Idaho
Department of Water Resources
Western Region
2735 Airport Way
Boise, Idaho 83705-5082

June 9, 1994

Re: Water Right Permit No. 63-11413

Dear Mr. Tuthill:

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Sincerely,

BRIGGS ENGINEERING, Inc.

Stan McHutchison

Stan McHutchison, P.E.
Eagle City Engineer

cc: Barbara Montgomery
Mona Mack, Esq.
Lexington Hills, Inc.
Bill Guhrke
Richard Burleigh, Esq.
Boise Water Corporation
[redacted]
Norm Young

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NOV 08 1995

940128-03

1111 S. Orchard, Suite 600 • Boise, Idaho 83705 • (208) 344-9700 Fax# (208) 345-2950

Glen 7-11

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

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JUN 0 8 1994
Dep...

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

June 3, 1994

City of Eagle
P.O. Box 477
Eagle, ID 83616

RE: Water Right Permit No. 63-11413 in the Name of the City of Eagle

Ladies and Gentlemen:

The purpose of this letter is to notify you that Condition No. 6 of the above-referenced water right permit in your name is presently being violated.

In my letter in this matter dated August 20, 1993, I indicated that the Department would not allow irrigation from solely ground water after the 1993 irrigation season. I inspected the Echo Creek system this week and found that the surface water irrigation system is not yet fully installed, even though surface water has been available in the Farmers Union Canal for more than a month.

Please be advised that unless I receive convincing information to the contrary by mail or by facsimile no later than the afternoon of Thursday, June 9, 1994, I will plan to pursue the issuance of a formal Cease and Desist Order to the permit holder of record, the City of Eagle, soon thereafter, pursuant to §42-351, I.C.

I will be out of the office during working hours for the week of June 6 - 10. If any recipient of this letter wishes to discuss the matter telephonically, please leave a message and I will attempt to return the call.

Sincerely,

David R. Tuthill

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office

cf: Mona Mack, Esq.
Lexington Hills, Inc.
Bill Guhrke
Richard Burleigh, Esq.
Boise Water Corporation
Glen Saxton
Norm Young

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State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

February 4, 1994

Richard B. Burleigh, Esq.
Hawley Troxell Ennis and Hawley
P.O. Box 1617
Boise, ID 83701

RE: Water Right Permit No. 63-11413 in the Name of the City of Eagle

Dear Mr. Burleigh:

I am in receipt of your letter dated February 1, 1994, in which you requested clarification of certain aspects of the above-referenced permit. I will respond to the questions that you have provided.

First, you have asked about whether the developer of Echo Creek Subdivision is required to install a pressurized irrigation system. In response, I would refer to the language in Condition of Approval No. 6 of the permit which states as follows:

> In order to conserve limited supplies in the ground water aquifer, water diverted under this right for irrigation may be diverted only during the irrigation season of March 15 through November 15. The water right holders are required to prepare feasibility studies to determine the extent to which surface water can be used for irrigation on both the Floating Feather Hills Project and the Trail Creek Ranch [Echo Creek] Project and to submit the studies to the Department for review and approval. As a minimum, Farmers Union Canal Company water shall be utilized for the irrigation of parcels equal to or greater than one-half acre in size during periods when water is being delivered in the canal. This water right may be used for irrigation purposes only if the entire amount of water from the Farmers Union Canal Company remains with the lands described in the application. Sale or transfer of surface water from any portion of the property will void the Department's approval to use the right for irrigation purposes.

NOV 08 1995

Our assessment of the feasibility studies was that there appears to be sufficient water for the irrigation of the entire project from the surface water supply. While we do not specifically hold the developer responsible for the construction of the pressurized irrigation system, we do require that such a system must be constructed and operated by some entity, so that the use of surface water (Boise River water) is maximized, prior to the use of any ground water for irrigation in the project.

The second issue concerns the requirements of the permit with regard to the use of domestic [ground] water once the appurtenant surface irrigation water is depleted. In response, it is again our interpretation of the feasibility studies that there will be sufficient surface water for the irrigation of the entire project during periods when water is available from the Farmer's Union canal. During the irrigation season each year when water is not available in the canal (normally 3/15 to 4/15 and 10/15 to 11/15) water from the wells can be used for irrigation. If for some reason the surface water is deemed inadequate for irrigation purposes during periods when the canal has water I would want to review the irrigation system design. If the Department were to be satisfied that the surface water system is truly inadequate to provide for irrigation needs in the project, ground water could be used to augment the surface water supply. However, based on the engineering studies provided to date, I do not anticipate this ground water augmentation to be necessary.

Relative to the use of the ponds for collection and pumpback of water which drains from the project, this type of system may be utilized in your project without the need for any further filing.

In the spirit of providing information to other interested parties in this matter, I am forwarding a copy of your letter and this reply to Mona Mack, City of Eagle attorney. If either of you has a question or concern regarding the information in this letter, please feel free to contact me.

Sincerely,

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office

cc: Mr. Glen Saxton (IDWR State Office)
Steve Lester
Mona Mack, Esq.

NOV 08 1995

HAWLEY TROXELL ENNIS & HAWLEY
ATTORNEYS AND COUNSELORS
FIRST INTERSTATE CENTER
877 MAIN STREET, SUITE 1000
POST OFFICE BOX 1617
BOISE, IDAHO 83701-1617

TELEPHONE
(208) 344-6000

FAX
(208) 342-3829

KETCHUM OFFICE
319 WALNUT AVENUE
POST OFFICE BOX 297
KETCHUM, IDAHO 83340-0297

POCATELLO OFFICE
125 NORTH GARFIELD
POST OFFICE BOX 4167
POCATELLO, IDAHO 83205-4167

RICHARD B. BURLEIGH

RECEIVED
FEB 0 2 1994
WATER RESOURCES
WESTERN REGION

February 1, 1994

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Idaho Department of Water Resources
2735 Airport Way
Boise, Idaho 83705-5082

Re: Water Permit No. 63-11413

Dear Dave:

The purpose of this letter is to obtain confirmation or clarification on certain aspects of the conditions under Water Permit No. 63-11413 by which the Echo Creek Subdivision in Eagle, Idaho obtains domestic water.

The first issue concerns the construction of a pressurized irrigation system. Please confirm or clarify that the Idaho Department of Water Resources is not requiring the developer of the Echo Creek Subdivision to install a pressurized irrigation system. Rather, the Department is simply stating that so long as there is appurtenant surface irrigation water available to the Subdivision, domestic ground water may not be used for irrigation purposes.

The second issue concerns the requirements of the permit with regard to the use of domestic water once the appurtenant surface irrigation water is depleted. It is our understanding that under the permit domestic water may be used for irrigation purposes if and when the appurtenant surface irrigation water supply is exhausted. Consequently, if the surface irrigation water supply is exhausted before the final phase of the development is constructed, the final phase will be permitted to use domestic water for all of its irrigation purposes. The permit does not obligate the developer to obtain additional sources of irrigation water. It only requires that the developer use all the surface irrigation water currently available on the property.

NOV 0 8 1995

Finally, it is the developer's intent to use drainage water collected in its ponds to augment the irrigation water as necessary. It is our understanding that the Idaho Department of Water Resources has no objection to this planned use.

Please provide a written response confirming the three issues set forth above or clarifying any positions of the Idaho Department of Water Resources that are contrary to the above. I would appreciate it if we could have a written response before February 8, 1994. If you have any questions or comments regarding this letter please contact me as soon as possible.

Sincerely,

HAWLEY TROXELL ENNIS & HAWLEY

Richard B. Burleigh

RBB:ag

NOV 08 1995

PERMIT 63-11413

COND. OF APPROVAL #8, WELL DATA

FOR 1993 PRODUCTION

PERIOD (1993)	DATA RECEIVED	ACRE-FEET WELL #1	ACRE-FEET WELL #2	ACRE-FEET TOTAL
1-4 / 7-27	8-10-93 *	54.6	4.6	59.2
7-28 / 12-28	2-11-94 **	79.0	6.0	85.0
	TOTAL	133.6	10.6	144.2

RATE OF FLOW NOT SHOWN IN DATA.

TOTAL USE APPEARS TO BE WITHIN LIMITS OF RIGHT.

* FROM DAVIS WRIGHT TREMAINE LAW OFFICES

** " EM² GENERAL WATERWORKS CORP. (purchasing water right from City of Eagle)

NOV 08 1995

JL 2/16/94

ORIGINAL : S.O.

COPY : WESTERN

MEMORANDUM

DATE: January 25, 1994

TO: File 63-11413

FROM: Cindy Zimmerman

SUBJECT: Reduction of right

==========

Per 'Stipulation (of Application for Permit No. 63-12017) in Reference to Permit to Appropriate Ident. No. 63-11413' received November 9, 1993, the above referenced permit has been reduced as follows:

a) Irrigated acres reduced by a total of 5 acres, specifically, 3 acres located within Lot 2 (NWNE), and 2 acres located within Lot 3 (NENW), S03, T04N, R01E;
b) Irrigation use reduced to 1.90 cfs;
c) Fire protection use reduced to 1.90 cfs; and,
d) Total diversion rate reduced to 3.15 cfs.

RECEIVED
NOV 08 1995

1 Dft
Stall ✓
File ✓

EM²
General Waterworks Corporation

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FEB 11 1994
WATER RESOURCES
WESTERN REGION

January 14, 1994

Mr. David R. Tuthill Jr., P.E.
Idaho Department of Water Resources
Western Region
2735 Airport Way
Boise, Idaho 83705-5082

RE: Permit No. 63-11413 for the City of Eagle

Dear Mr. Tuthill:

The following information pertains to the period from 7/29/93 to 12/28/93:

Total for Well No. 1 - 25,740,000 gallons - 79 af } 85 Af

Total for Well No. 2 - 1,950,000 gallons - 6 af }

This should provide you with the information you require. Should you need further assistance at this time, please call.

Very truly yours,

BOISE WATER CORPORATION

Katherine Shiflet

Katherine Shiflet
Assistant Manager

KS:mm

NOV 08 1994

State of aho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

January 27, 1994

Ms. Mona Mack
Moore McFadden
999 Main St., Ste. 910
Boise, ID 83702

RE: City of Eagle Water Right Permit No. 63-11413

Dear Ms. Mack:

I was recently informed that you are acting for the City of Eagle in matters related to the above-referenced water right for Lexington Hills and Echo Creek developments. The water right is currently owned by the city.

Condition of approval number eight requires that the permit owner submit totalizing data from the well(s) in use on a frequency determined by the Idaho Department of Water Resources (IDWR). Previous IDWR correspondence to the city via the former city attorney, Mr. L. W. Grant, III, defined the frequency as twice a year. Data is to be submitted by June 30 and December 31 of each year and, in each case, shall summarize the preceeding six-month period.

The first set of data for January through June of 1993 was received in August, 1993. The second set for the remainder of 1993 was due by December 31, 1993, but has not been received by IDWR. It is my understanding that Kathy Shiflet of General Water Works would coordinate the task for the permit owner.

IDWR was informed that timely submittal of data would occur without reminders such as this letter. The water right owner is again reminded that conditions of approval must be honored to protect the water right.

Please send the appropriate data to this office by February 14, 1994, to maintain the right in good standing. This office expects that data will be submitted in the future on a timely basis by the water right owner. I will be glad to assist you in this or any other water right issues in which you are involved.

Sincerely,

Steve Lester
Water Rights Supervisor

NOV 08 1995

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DEC 13 1993
WATER RESOURCES
WESTERN REGION

DEBRA ALSAKER-BURKE
REBECCA W. ARNOLD
JOSEPH H. BAIRD
CHRISTOPHER J. BEESON
JOANN C. BUTLER
MICHAEL C. CREAMER
JEFFREY C. FEREDAY
JULIE KLEIN FISCHER
RAYMOND D. GIVENS
JUDITH K. HOLCOMBE
ROBERT C. HUNTLEY, JR.
DAVID R. LOMBARDI
KENNETH R. McCLURE
CHRISTOPHER H. MEYER
L. EDWARD MILLER
PATRICK J. MILLER
JUDSON B. MONTGOMERY
TERRY L. MYERS
STEVEN L. OLSEN
KENNETH L. PURSLEY
RAMONA L. SCHWEHR
GREGORY J. VIETZ
CONLEY WARD
STEVEN R. WEEKS
STEPHANIE C. WESTERMEIER

LAW OFFICES
GIVENS PURSLEY & HUNTLEY
SUITE 200, PARK PLACE
277 NO. 6TH STREET
POST OFFICE BOX 2720
BOISE, IDAHO 83701

RECEIVED
DEC 14 1993
Department of Water Resources

A. McCLURE
OF COUNSEL

DAVID E. MABE
LEGISLATIVE SPECIALIST

TELEPHONE
(208) 342-6571

FACSIMILE
(208) 343-9492
(208) 342-8920

December 10, 1993

Steve Lester
Idaho Department of Water Resources
2735 Airport Way
Boise, Idaho 83705-5082

Re: City of Eagle - Lexington Hills

Dear Steve:

Effective November 22, 1993, I became associated with the law firm of Givens Pursley & Huntley. Mona Mack is now with the law firm of Moore McFadden, 999 Main Street, Suite 910, Boise, Idaho, 83702, and continues to act as the City Attorney for the City of Eagle.

Please change your records to remove my name from your correspondence and distribution list and replace it with Ms. Mack.

Thanks for your help and assistance.

Sincerely,

L. W. Grant, III

LWG:mlh

cc: Mona Mack

APPROPRIATED
NOV 08 1995

63-11413

Steve —
File —
Copy to S.O. —

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NOV 15 1993
WATER RESOURCES
WESTERN REGION

HAWLEY TROXELL ENNIS & HAWLEY
ATTORNEYS AND COUNSELORS
FIRST INTERSTATE CENTER
877 MAIN STREET, SUITE 1000
POST OFFICE BOX 1617
BOISE, IDAHO 83701-1617

TELEPHONE
(208) 344-6000

FAX
(208) 342-3829

KETCHUM OFFICE
319 WALNUT AVENUE
POST OFFICE BOX 297
KETCHUM, IDAHO 83340-0297

POCATELLO OFFICE
125 NORTH GARFIELD
POST OFFICE BOX 4167
POCATELLO, IDAHO 83205-4167

November 12, 1993

RECEIVED
NOV 17 1993
...Resources

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office
Idaho Department of Water Resources
2735 Airport Way
Boise, Idaho 83705-5082

Re: Water Right Permit No. 63-11413

Dear Mr. Tuthill:

This letter is in response to your August 29, 1993 letter and is a confirmation of the meeting held today, November 12, 1993, regarding the application of surface irrigation water to Phase I of the Echo Creek Subdivision. The developer of the Echo Creek Subdivision, Treasure Valley Village agrees to provide surface irrigation water to the Echo Creek Subdivision Phase I pursuant to the requirements of Condition No. 6 of the Water Right Permit No. 63-11413. The necessary pressurized system shall be constructed and each of the lot owners in Phase I shall have access to the surface water irrigation system before the commencement of the 1994 irrigation season.

As Treasure Valley Village is complying with the requirements of the Department of Water Resources, we understand that opposition before the city of Eagle regarding the continued development of the Echo Creek Subdivision will be withdrawn so that development of additional phases may go forward.

Thank you for your cooperation in this matter.

Sincerely,

HAWLEY TROXELL ENNIS & HAWLEY

Richard B. Burleigh

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NOV 08 1995

RBB/gmt
cc: William Guhrke

RECEIVED
NOV 0 9 1993
WATER RESOURCES
WESTERN REGION

STATE OF IDAHO DEPARTMENT OF WATER RESOURCES

In re Application for Permit to Appropriate Groundwater by LEXINGTON HILLS, INC., f/k/a FLOATING FEATHER HILLS, INC., and TREASURE VALLEY VILLAGE LIMITED PARTNERSHIP	Ident. No. 63–12017 STIPULATION IN REFERENCE TO PERMIT TO APPROPRIATE Ident. No. 63–11413

The City of Eagle, a municipal corporation, hereby acknowledges and agrees with Applicants, Lexington Hills, Inc., formerly known as Floating Feather Hills, Inc., and Treasure Valley Village Limited Partnership, as follows:

1. Applicants are the developers of the residential developments described in the existing Permit to Appropriate, Ident. No. 63–11413, being planned unit developments known as Lexington Hills and Trail Creek. This Permit has been assigned to the City of Eagle ("the City"), and includes the right to appropriate groundwater for domestic, irrigation and fire protection purposes in the quantities and at the times described therein.

2. Although the scope of the developments has not changed since the original application was filed, the statutory definitions of the uses of water allowed by the existing permit do not adequately allow for use of water under the permit for temporary storage in the ponds within the project for aesthetic, recreational and wildlife purposes, despite the fact that such ponds are integrally related to the system for irrigation of property within the projects.

3. The parties have determined that it is in the interest of the City and the Applicants that a new application for permit to appropriate groundwater for temporary storage of water for aesthetic, recreational and wildlife purposes be filed and that, based on the amount of water for which a permit to appropriate is being requested, the effect of that permit, if granted, and the permit held by the City would be to increase the total volume of water appropriated over that allowed by the existing permit. Accordingly, in order to comply with the existing moratorium on issuance of permits to appropriate groundwater, the parties acknowledge that it will be

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NOV 0 8 1995

necessary to retire some of the land to be irrigated under the existing permit held by the City and to decrease the amount of water to be diverted under that permit.

4. The Idaho Department of Water Resources is prepared to issue a permit to the Applicants on the condition of the retirement of acreage allowed to be irrigated under the existing permit held by the City of Eagle, and a corresponding decrease in the amount of water to be diverted under that permit.

5. The parties hereby acknowledge and agree to the retirement of 5.0 acres of the acreage allowed to be irrigated under the existing permit, the location of which 5.0 acres is more particularly described on Exhibit "A" attached hereto and incorporated herein by this reference, and a decrease by .05 cfs in the amount of water to be diverted under that permit, or such lesser extent as may be required to comply with conditions for issuance of the permit being requested by Applicants.

DATED: 10-12-93

CITY OF EAGLE

By: X _____

DATED: 11-5-93

LEXINGTON HILLS, INC.,

By: _____
Duane Stueckle, President

DATED: 11/2/93

TREASURE VALLEY VILLAGE
LIMITED PARTNERSHIP

By: _____
William R. Guhrke, General Partner

RECEIVED

NOV 08 1995

<W>Lex/stip/appropriate/mm.wp/92893

Lot 2 NWNE Section 3, Township 4 North, Range 1 East, B.M. –

Delete 3 acres

Lot 3 NENW Section 3, Township 4 North, Range 1 East, B.M. –

Delete 2 acres

NOV 0 8

RECEIVED
OCT 15 1993
Department of Water Resources

CONVERSATION MEMORANDUM

DATE 10/14/93

FILE 63.11413

NAME OF PARTY Jo Beeman

EMPLOYEE Steve Leth

RE:

Jo left a phone msg. that City of Eagle City Council voted last night to convey this right back to developer.

If so, we should be seeing another assignment of permit soon.

RECEIVED
NOV 08 1995

DAVIS WRIGHT TREMAINE
LAW OFFICES
702 WEST IDAHO STREET · SUITE 700 · BOISE, IDAHO 83702
(208) 338-8200

COPY

L. W. GRANT, III
(208) 338-8245

RECEIVED
SEP 29 1993
Department of Water Resources
Western Regional Office

September 28, 1993

Richard B. Burleigh
Hawley, Troxell, Ennis & Hawley
P.O. Box 1617
Boise, Idaho 83701

RECEIVED
OCT 5 1993
Department of Water Resources

Re: Water Permit No. 63-11413

Dear Richard:

We are writing you as the City Attorney's for the City of Eagle (the "City"). The City owns a groundwater permit, no. 63-11413, (the "Permit") for domestic and irrigation purposes and is required to comply with the terms and conditions of the Permit issued by the Idaho Department of Water Resources ("IDWR"). The Permit authorizes water use for the Lexington Hills Subdivision and the Echo Creek Subdivision ("Echo Creek") within the City limits.

On or about August 20, 1993, you received a letter from David R. Tuthill (the "Letter"), in response to your earlier correspondence concerning the feasibility study (the "Feasibility Study") for the use of surface water in Echo Creek. In his Letter, Mr. Tuthill states that ground water may be continued to be used for irrigation uses for the remainder of the irrigation season this year for the first 50 lots in the Echo Creek Subdivision, but that ground water will not be permitted for irrigation use beginning in 1994. The irrigation use includes any lawns, gardens or common areas. The domestic use allowed under the Permit is confined to water uses inside of the homes. It is our understanding that at the present time, the first 50 lots in Echo Creek do not have a surface water irrigation system.

The City, as the owner and operator of the water system for Echo Creek will comply with the terms contained in the Letter. As the provider of ground water to the residents in Echo Creek, we will, in the future, need to advise the property owners of the first 50 lots in Echo

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FAX: (208) 338-8299
ANCHORAGE, ALASKA · BELLEVUE, WASHINGTON · HONOLULU, HAWAII · LOS ANGELES, CALIFORNIA
PORTLAND, OREGON · RICHLAND, WASHINGTON · SAN FRANCISCO, CALIFORNIA · SEATTLE, WASHINGTON · WASHINGTON, D.C.

Creek (the "Affected Owners") that we will not provide ground water under the Permit for irrigation use beginning in 1994.

If we have not received notification from IDWR that they have approved the Feasibility Study, permitting the use of ground water for irrigation of the first fifty lots in Echo Creek or if your clients have not installed an irrigation system to those first 50 lots in Echo Creek using the surface water by January 1, 1994, then we will need to notify those Affected Owners that ground water may not be used for irrigation use beginning in 1994. The City will advise you before it gives notice to the Affected Owners.

If you make other arrangements with IDWR prior to the beginning of the year, please let us know.

Sincerely,

DAVIS WRIGHT TREMAINE

L. W. Grant, III

LWG/kac

cc: Mayor Guerber
Barbara Montgomery
David Tuthill

NOV 0 8 1995

851674\3\00034.LTR
Boise

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

August 20, 1993

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AUG 24 1993
Department of Water Resources

Richard B. Burleigh, Esq.
Hawley Troxell Ennis and Hawley
P.O. Box 1617
Boise, ID 83701

RE: Water Right Permit No. 63-11413 in the Name of the City of Eagle

Dear Mr. Burleigh:

Thank you for your letter dated August 9, 1993 in which you provided information in the above-referenced matter. I am responding on behalf of Mr. Steve Lester of this office. Relative to the feasibility study for irrigation water on the first 50 lots of the Echo Creek Subdivision, the explanation as to why a surface water irrigation system has not been provided is not satisfactory. I will address each of the points identified in your letter.

Condition No. 6 of the above-referenced permit states as follows:

> In order to conserve limited supplies in the ground water aquifer, water diverted under this right for irrigation may be diverted only during the irrigation season of March 15 through November 15. The water right holders are required to prepare feasibility studies to determine the extent to which surface water can be used for irrigation on both the Floating Feather Hills Project and the Trail Creek Ranch [Echo Creek] Project and to submit the studies to the Department for review and approval. As a minimum, Farmers Union Canal Company water shall be utilized for the irrigation of parcels equal to or greater than one-half acre in size during periods when water is being delivered in the canal. This water right may be used for irrigation purposes only if the entire amount of water from the Farmers Union Canal Company remains with the lands described in the application. Sale or transfer of surface water from any portion of the property will void the Department's approval to use the right for irrigation purposes.

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This condition was developed in response to a hearing held by this Department which resulted in the determination that ground water supplies in the Floating Feather area, although available, must be utilized only sparingly as a backup to existing surface water supplies unless use of surface water is unfeasible.

Your letter states that surface water available to the Echo Creek portion of the project must be utilized within the Echo Creek boundaries from non-groundwater sources. I agree with this interpretation. However, this does not imply that lots of less than 1/2 acre are not required to be provided with surface water irrigation. The purpose for requiring that a feasibility study be conducted is to determine the feasibility of providing surface water for the irrigation of these lots. Lexington Hills found that if a separate irrigation system is to be established for the irrigation of the parcels of one-half acre and greater, then the expansion of the pressurized system to lots of all sizes was feasible.

Your letter states that it is doubtful there is surface water available to the Echo Creek project to provide irrigation to every lot. This does not coincide with information provided in the Echo Creek Subdivision Surface Water Irrigation Feasibility Report dated March 21, 1993, prepared by J.D. Canning, P.E., which identifies a use of 43 inches of water during the highest consumption month, July, as compared with the 60 inches available from Farmers Union Canal Company. Based on his report it appears that there is ample surface water available to provide for the 50 initially developed lots.

You further state that at the time the project was initiated it was not feasible to construct a ground [surface?] water system to the first phase, and that it would have been necessary to construct a conveyance system across Lexington Hills land. In response, I am reminded of the hundreds of temporary surface conveyance systems constructed in the Boise valley during the recent drought. In most cases it is a simple and relatively inexpensive matter to convey irrigation water for the distances required in this case. Temporary easements across Lexington Hills land could likely have been obtained had they been sought in a timely manner.

In summary, it appears from the data presented to date that the exclusion of the first 50 lots in Echo Creek Subdivision from the pressurized surface water irrigation system is a matter of failure to plan rather than a matter of economic feasibility. I have not yet seen any numbers which would indicate that a comprehensive feasibility study was conducted prior to the construction of the 50 lots which indicated that surface water should not be supplied to

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the lots. On the contrary, the explanations provided to date appear to be after-the-fact rationalization of failure to comply with an important condition of the water right permit.

To comply with both the letter and spirit of Condition No. 6 of Permit No. 63-11413 I cannot recommend that these 50 lots be allowed to receive irrigation water from solely the ground water system. Because this season is nearly completed, and because irrigation has been initiated on only a portion of the 50 lots, we will allow Echo Creek to continue to provide irrigation from ground water this season only. However, beginning with the 1994 irrigation season this office plans to enforce Condition No. 6 and will not allow irrigation from solely ground water. This allows the next nine months for construction and installation of a pressurized system for the 50 lots.

If you have data that would lead to a different conclusion in this matter, please feel free to contact me soon and I would be willing to review the matter further. In a related matter, by copy of this letter I would like to advise Mr. Grant that the water measurement data submitted for this project for the first half of 1993 is satisfactory.

Sincerely,

David R. Tuthill

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office

cc: L.W. Grant, III
L. Glen Saxton (IDWR State Office)
Steve Lester

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DAVIS WRIGHT TREMAINE
LAW OFFICES
702 WEST IDAHO STREET · SUITE 700 · BOISE, IDAHO 83702
(208) 338-8200

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AUG 10 1993
Department of Water Resources
Western Regional Office

L. W. GRANT, III
(208) 338-8245

August 9, 1993

Mr. Steve Lester
Water Rights Supervisor
State of Idaho
Department of Water Resources
Western Region
2735 Airport Way
Boise, Idaho 83705-5082

Re: Water Permit No. 63-11413

Dear Steve:

As you know, we represent the City of Eagle (the "City") as their City attorneys in the matters pertaining to Water Permit No. 63-11413 (the "Permit"). We are writing you in response to your letter to us dated July 16, 1993.

In your letter you ask us to provide you with: 1) the water flow measurements from the totalizing data for the two wells located at Lexington Hills, and 2) further information as to why phase one of the Echo Creek subdivision cannot use surface water for irrigation purposes.

Water Flow Measurements

In June of 1992, the City entered into an operational management agreement with Engineering, Management and Maintenance, Inc. ("EM2"), whereby EM2 was to manage the water system for the City. We directed EM2 on at least two occasions to prepare the flow measurement reports required by the Permit and to forward the reports to Dave Tuthill. In May of this year, EM2 sold the management contract for the City's water system to General Water Works ("GWW"), the parent corporation to Boise Water Corporation. Apparently this reporting requirement under the Permit was not brought to the attention of GWW, so the report was not prepared as required by the Permit. We have been in contact with Kathy Shiflet at GWW and we have advised her of this reporting requirement. She has provided us with a copy of that report which we have enclosed for your use. Furthermore, she has had a copy delivered to the Idaho Department of Water Resources office. Ms. Shiflet has advised us that the reports will be timely now that GWW is aware of the reporting requirement.

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Boise

Feasibility Study

While we recognize that the City as the permit holder has the ultimate responsibility to comply with the terms of the Permit, you should be aware that the City has a commitment from the developer of the Echo Creek subdivision to provide any necessary feasibility reports which may be required by the Idaho Department of Water Resources ("IDWR") concerning those reasons why surface water may not be utilized for irrigation purposes. The developer's attorney, Richard Burleigh with the firm of Hawley, Troxell, Ennis & Hawley, has requested that he communicate directly with IDWR concerning those revisions to the feasibility study which have been requested by IDWR in your letter of July 16, 1993. Mr. Burleigh has sent you directly his comments concerning the need for a feasibility study. We have enclosed a copy of his letter. We believe that you will find Mr. Burleigh to be very responsive to your needs, but please let us know if the additional information is not satisfactory.

We apologize for any difficulty we have caused you and the IDWR for our failure to report the water flow measurements and to provide you with the feasibility study in a timely manner.

Sincerely,

DAVIS WRIGHT TREMAINE

L. W. Grant, III

cc: Barbara Montgomery
Richard Burleigh
Kathy Shiflet

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Boise

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EAGLE

LEXINGTON HILLS WELLS

In 1000's of Gal

DATE	WELL #1	WELL #2	PSI	#1/#2 GPM	TIME	NOTES	OP
1-4-93	22990	–	63		5:40		
2-7	28650	–	70		10:10		
3-7	31980	–	55		1:00		
4-6	33900	–	56		–		
5-3	35500	–	65		–		
5-10	36770	99997	69		8:30		DH
5-18	37920	–	57		8:50		DH
5-25	38190	–	71		–		BA
6-1	38500	–	67		10:05		BA
6-8-93	38720	99,994	61	100/	8:55A/8:45A	Put new NASP on #1 Pumphouse	DH
6-15-93	39150	99994	69/		8:45A 8:35A		DH
6-22-93	39590	–	76/		900A		DH
6-29-93	40170	99,994	64/		8:40A 8:35		
7-6-93	40770	00,010	46/46		9:15 9:00		
7-13-93	40870	00340	68/59		8:40A 8:45A		
7-20-93	40900	00920	52			Pumps out	BL
7-27-93	40800	01480	56		8:45		JO
8/2/93						Sent Prod to IDNR	

NOV 08 1995

EAGLE

LEXINGTON HILLS WELLS

1992

DATE	WELL #1	WELL #2	PSI	#1 / #2 GPM	TIME	NOTES	OP
5/2	01,130		58	off	11:55		
6/7	01,540		61	off	6:00 P		
7/1	01,680		62	off	9:40A		
8/2	05,190		56	off	5:45A		
9/1	06,880		67	off	6:35p		
10/1	07,700		68	off	10:05A		
11/1	11,690		70	off	10:25A		
12/6	17,860		55	off	10:00A		

NOV 08 1995

HAWLEY TROXELL ENNIS & HAWLEY
ATTORNEYS AND COUNSELORS
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POCATELLO OFFICE
125 NORTH GARFIELD
POST OFFICE BOX 4167
POCATELLO, IDAHO 83205

TELEPHONE
(208) 233-0845

RICHARD B. BURLEIGH

August 5, 1993

Steve Lester
Water Rights Supervisor
Idaho Dept. of Water Resources
Western Region
2735 Airport Way
Boise, Idaho 83705-5082

Re: Water Right Permit No. 63-11413
for the City of Eagle

Dear Mr. Lester:

This letter is in response to your July 16, 1993 letter to Mr. L. W. Grant, III regarding Water Right Permit No. 63-11413 currently held by the City of Eagle. In particular, we are responding to that portion of your letter concerning the Feasibility Report prepared for the Echo Creek portion of the project and its compliance with Condition No. 6 of the Water Right Permit. You indicated that the Echo Creek Feasibility Report was not acceptable as it failed to adequately explain why the 50 lots in the first phase have not been provided surface irrigation water. This letter is intended to provide your requested explanation.

Initially, we note that Condition No. 6 does not require that surface water be utilized on all lands within the project. Rather, we believe the correct interpretation of Condition No. 6 is that the surface irrigation water available to the Echo Creek portion of the project be utilized within the Echo Creek boundaries to maximize water from non-groundwater sources, thereby minimizing the potential impact on other wells in the area and enhancing recharge of the aquifer. This interpretation is based on the fact that Condition No. 6 only requires that, as a minimum, surface water be utilized on lots of 1/2 acre or larger. This acknowledges that surface water might not be applied evenly on all lots within the subdivision. Consequently, so long as the surface water is utilized within the Echo Creek boundaries, Condition No. 6 is met. The failure to apply surface

NOV 08 1995

water to the first phase of the Echo Creek development is not, therefore, a violation of the water right permit.

Furthermore, it is doubtful if there is sufficient surface water available to the Echo Creek project to provide irrigation water to every lot. When the project was initiated there was considerable doubt as to whether there would be enough surface water for even one-half of 300 lots to be developed. It is now believed that there might be enough water for approximately 250 lots. Nevertheless, at the initiation of the project it was decided that the first 50 lots would use domestic water for their irrigation needs. Exclusion of these 50 lots continues to insure that the lots receiving irrigation water will receive an adequate amount. The amount of water provided to the remaining development is currently calculated to include a safety margin so that all residential owners receiving surface irrigation water will receive an adequate amount of water irrespective of the other owners' use and actual quantity of surface water available.

Furthermore, at the time the project was initiated it was not feasible to construct a ground water system to the first phase. It would have been necessary to construct a conveyance system across the Lexington Hills land. The Echo Creek developers had no right to construct such a conveyance system. Even if they had the right to cross Lexington Hills, the cost of constructing such a system would have been excessive.

Although development of Lexington Hills permits Echo Creek to take advantage of its surface water, it remains infeasible to construct a pressurized irrigation system for the lots in the first phase. The expense of installing such a system at this stage in the development remains prohibitive. Moreover, due to the questionable quantity of water, not all lots within the first phase could be provided with water. As a result, revision of the first phase's covenants, conditions and restrictions necessary to provide for the operation and maintenance of the surface water irrigation system available to only a few homeowners in the first phase would be a logistical nightmare.

In conclusion, inclusion of the 50 lots in the first phase in the surface water irrigation system is not required by the water permit. Moreover, all surface irrigation water available to the Echo Creek project will be used to the maximum extent possible on the remaining lots within the Echo Creek

AUG 6 1993

project. The first phase was deliberately excluded from participation in the system for the above reasons and it is not now possible to provide it access to the surface irrigation water.

We hope this letter provides the necessary explanation which you require. If you have any questions or further problems with the Feasibility Report for the Echo Creek portion of this project, please do not hesitate to contact me.

Sincerely,

HAWLEY TROXELL ENNIS & HAWLEY

Richard B. Burleigh

RBB:clt

cc: L. W. Grant, III
W. Guhrke
J. Canning
M. Munther

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Department of Water Resources
Western Regional Office

Steve ✓
File ✓

DAVIS WRIGHT TREMAINE

LAW OFFICES

702 WEST IDAHO STREET · SUITE 700 · BOISE, IDAHO 83702
(208) 338-8200

L. W. GRANT, III
(208) 338-8245

August 9, 1993

David R. Tuthill, Jr., P.E.
Water Rights Supervisor
State of Idaho
Department of Water Resources
Western Region
2735 Airport Way
Boise, Idaho 83705-5082

Re: Flow Measurement Reports - Permit No. 63-11413

Dear Mr. Tuthill:

Enclosed is the flow measurement report which is required under Permit No. 63-11413.

Please let us know if you need any further information.

Sincerely,

DAVIS WRIGHT TREMAINE

L. W. Grant, III

cc: Barbara Montgomery
Steve Lester
Kathy Shiflet

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851674\3\00033.LTR/8.9.93
Boise

EAGLE

LEXINGTON HILLS WELLS

in 1000's of gallons

DATE	WELL #1	WELL #2	PSI	#1/#2 GPM	TIME	NOTES	OP
1-4-93	22990	–	63		5:40		
2-7	28650	–	70		10:10		
3-7	31990	–	55		1:00		
4-6	33900	–	56		–		
5-3	35500	–	65		–		
5-10	36770	99997	69		8:30		DM
5-18	37920	–	57		8:50		DM
5-25	38190	–	71		–		BA
6-1	38500	–	67		10:05		BA
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6-22-93	39590	–	76/		900A		DM
6-29-93	40170	99,994	64/		8:40A 8:35		
7-6-93	40770	00,010	48/46		9:15 9:00		
7-13-93	40870	00340	68/59		8:40A 8:45A		
7-20-93	40900	00920	52			Pumps out	BL
7-27-93	40800	01480	56		8:45		JD
8/2/93						Sent Prod to IDWR	

AUG 08 1995

54.6 af + 4.6 af = 59.2 af during first 6 months of 1993 :. OK DM

EAGLE

LEXINGTON HILLS WELLS

1992

DATE	WELL #1	WELL #2	PSI	#1 / #2 GPM	TIME	NOTES	OP
5/2	01,130		58	off	11:55		
6/7	01,540		61	off	6:00 P		
7/1	01,680		62	off	9:40A		
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11/1	11,690		70	off	10:25A		
12/6	17,860		55	off	10:00A		

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HAWLEY TROXELL ENNIS & HAWLEY
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POCATELLO, IDAHO 83205

TELEPHONE
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RICHARD B. BURLEIGH

August 5, 1993

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Department of Water Resources
Western Regional Office

Steve Lester
Water Rights Supervisor
Idaho Dept. of Water Resources
Western Region
2735 Airport Way
Boise, Idaho 83705-5082

Re: Water Right Permit No. 63-11413
for the City of Eagle

Dear Mr. Lester:

This letter is in response to your July 16, 1993 letter to Mr. L. W. Grant, III regarding Water Right Permit No. 63-11413 currently held by the City of Eagle. In particular, we are responding to that portion of your letter concerning the Feasibility Report prepared for the Echo Creek portion of the project and its compliance with Condition No. 6 of the Water Right Permit. You indicated that the Echo Creek Feasibility Report was not acceptable as it failed to adequately explain why the 50 lots in the first phase have not been provided surface irrigation water. This letter is intended to provide your requested explanation.

Initially, we note that Condition No. 6 does not require that surface water be utilized on all lands within the project. Rather, we believe the correct interpretation of Condition No. 6 is that the surface irrigation water available to the Echo Creek portion of the project be utilized within the Echo Creek boundaries to maximize water from non-groundwater sources, thereby minimizing the potential impact on other wells in the area and enhancing recharge of the aquifer. This interpretation is based on the fact that Condition No. 6 only requires that, as a minimum, surface water be utilized on lots of 1/2 acre or larger. This acknowledges that surface water might not be applied evenly on all lots within the subdivision. Consequently, so long as the surface water is utilized within the Echo Creek boundaries, Condition No. 6 is met. The f[illegible]ore to apply surface

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Department of Water Resources
Western Regional Office

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Furthermore, it is doubtful if there is sufficient surface water available to the Echo Creek project to provide irrigation water to every lot. When the project was initiated there was considerable doubt as to whether there would be enough surface water for even one-half of 300 lots to be developed. It is now believed that there might be enough water for approximately 250 lots. Nevertheless, at the initiation of the project it was decided that the first 50 lots would use domestic water for their irrigation needs. Exclusion of these 50 lots continues to insure that the lots receiving irrigation water will receive an adequate amount. The amount of water provided to the remaining development is currently calculated to include a safety margin so that all residential owners receiving surface irrigation water will receive an adequate amount of water irrespective of the other owners' use and actual quantity of surface water available.

Furthermore, at the time the project was initiated it was not feasible to construct a ground water system to the first phase. It would have been necessary to construct a conveyance system across the Lexington Hills land. The Echo Creek developers had no right to construct such a conveyance system. Even if they had the right to cross Lexington Hills, the cost of constructing such a system would have been excessive.

Although development of Lexington Hills permits Echo Creek to take advantage of its surface water, it remains infeasible to construct a pressurized irrigation system for the lots in the first phase. The expense of installing such a system at this stage in the development remains prohibitive. Moreover, due to the questionable quantity of water, not all lots within the first phase could be provided with water. As a result, revision of the first phase's covenants, conditions and restrictions necessary to provide for the operation and maintenance of the surface water irrigation system available to only a few homeowners in the first phase would be a logistical nightmare.

In conclusion, inclusion of the 50 lots in the first phase in the surface water irrigation system is not required by the water permit. Moreover, all surface irrigation water available to the Echo Creek project will be used to the maximum extent possible on the remaining lots within the Echo Creek

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project. The first phase was deliberately excluded from participation in the system for the above reasons and it is not now possible to provide it access to the surface irrigation water.

We hope this letter provides the necessary explanation which you require. If you have any questions or further problems with the Feasibility Report for the Echo Creek portion of this project, please do not hesitate to contact me.

Sincerely,

HAWLEY TROXELL ENNIS & HAWLEY

Richard B. Burleigh

RBB:clt

cc: L. W. Grant, III
W. Guhrke
J. Canning
M. Munther

NOV 08 1995

DAVIS WRIGHT TREMAINE
LAW OFFICES
702 WEST IDAHO STREET · SUITE 700 · BOISE, IDAHO 83702
(208) 338-8200

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Department of Water Resources
Western Regional Office

L. W. GRANT, III
(208) 338-8245

August 3, 1993

Kathy Shiflet
General Water Works
P. O. Box 7488
Boise, Idaho 83707

Re: City of Eagle - Water Service Maintenance

Dear Kathy:

Under the terms of the City of Eagle's (the "City") Permit to Appropriate Water, No. 63-11413 (the "Permit"), the City is required to provide water flow measurement reports to David R. Tuthill, Jr. at the Idaho Department of Water Resources ("IDWR"), Western Region, 2735 Airport Way, Boise, Idaho 83705-5082, beginning on June 30, 1993 and semi-annually thereafter on December 31st and June 30th. The flow measurement devices which are installed on each well should be recorded and reported to Mr. Tuthill as indicated above.

Please obtain the water flow measurement readings as requested and forward to Mr. Tuthill as soon as is reasonably possible.

Sincerely,

DAVIS WRIGHT TREMAINE

Louis W. Grant, III

cc: Barbara Montgomery
Steve Lester

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Boise

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

July 16, 1993

Mr. L. W. Grant III
Davis Wright Tremaine Law Offices
702 West Idaho Street, Suite 700
Boise, ID 83702

RE: Water Right Permit No. 63-11413 for the City of Eagle

Dear Mr. Grant:

This letter is a follow up to my letter to you dated 1/8/93 concerning conditions of approval for the above-referenced water right for the Lexington Hills and Echo Creek Subdivisions. The permit owner is responsible for meeting the conditions of approval to maintain the validity of the water right. I understand that you or your office are representing the permit owner of record, the City of Eagle.

For condition no. 6, this office received a report on 4/14/93 with a cover letter from Merrily Munther. The feasibility of using existing surface water for irrigation within the developments was discussed. The information for Lexington Hills was found to be acceptable with respect to condition no. 6, but discussion of the Echo Creek portion of the project was not considered acceptable.

Specifically, the three page Echo Creek report does not adequately explain why surface water cannot be used for irrigation use on the first phase of the development (fifty lots, see page 1 of attached copy of report). The manager of this office would like to know why these 50 lots are not capable of receiving surface water.

For condition no. 8, totalizing data from the well(s) in use were to be provided by 6/30/93 by the permit owner. The information was to be sent to this office but has not been received. Please remind the water right owner that submitting totalizing data is the sole responsibility of the owner and that this office would prefer not to send regular reminders regarding condition no. 8. Totalizing data should be submitted by 6/30 and 12/31 of each year.

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In summary, partial compliance with condition no. 6 but no compliance with condition no. 8 is found. A reply meeting the terms of the conditions is requested no later than August 16, 1993 to maintain the water right in good standing. Please advise the pertinent parties, not withstanding the intention of this office to be accommodating within reasonable limits, that delays such as those experienced in the recent water right filing situation[1] do not advance the cause of protecting the water right.

If I can provide any help in this matter, please do not hesitate to contact me. A reply can be sent to Dave Tuthill or to me at this office.

Sincerely,

Steve Lester
Water Rights Supervisor

CC: Merrily Munther
Enclosure

NOV 08 1995

1. Application for Permit No. 63-12017 to provide a water amenity.

Glen Saxton

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

August 20, 1993

Richard B. Burleigh, Esq.
Hawley Troxell Ennis and Hawley
P.O. Box 1617
Boise, ID 83701

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AUG 2 4 1993
Department of Water Resources

RE: Water Right Permit No. 63-11413 in the Name of the City of Eagle

Dear Mr. Burleigh:

Thank you for your letter dated August 9, 1993 in which you provided information in the above-referenced matter. I am responding on behalf of Mr. Steve Lester of this office. Relative to the feasibility study for irrigation water on the first 50 lots of the Echo Creek Subdivision, the explanation as to why a surface water irrigation system has not been provided is not satisfactory. I will address each of the points identified in your letter.

Condition No. 6 of the above-referenced permit states as follows:

> In order to conserve limited supplies in the ground water aquifer, water diverted under this right for irrigation may be diverted only during the irrigation season of March 15 through November 15. The water right holders are required to prepare feasibility studies to determine the extent to which surface water can be used for irrigation on both the Floating Feather Hills Project and the Trail Creek Ranch [Echo Creek] Project and to submit the studies to the Department for review and approval. As a minimum, Farmers Union Canal Company water shall be utilized for the irrigation of parcels equal to or greater than one-half acre in size during periods when water is being delivered in the canal. This water right may be used for irrigation purposes only if the entire amount of water from the Farmers Union Canal Company remains with the lands described in the application. Sale or transfer of surface water from any portion of the property will void the Department's approval to use the right for irrigation purposes.

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This condition was developed in response to a hearing held by this Department which resulted in the determination that ground water supplies in the Floating Feather area, although available, must be utilized only sparingly as a backup to existing surface water supplies unless use of surface water is unfeasible.

Your letter states that surface water available to the Echo Creek portion of the project must be utilized within the Echo Creek boundaries from non-groundwater sources. I agree with this interpretation. However, this does not imply that lots of less than 1/2 acre are not required to be provided with surface water irrigation. The purpose for requiring that a feasibility study be conducted is to determine the feasibility of providing surface water for the irrigation of these lots. Lexington Hills found that if a separate irrigation system is to be established for the irrigation of the parcels of one-half acre and greater, then the expansion of the pressurized system to lots of all sizes was feasible.

Your letter states that it is doubtful there is surface water available to the Echo Creek project to provide irrigation to every lot. This does not coincide with information provided in the Echo Creek Subdivision Surface Water Irrigation Feasibility Report dated March 21, 1993, prepared by J.D. Canning, P.E., which identifies a use of 43 inches of water during the highest consumption month, July, as compared with the 60 inches available from Farmers Union Canal Company. Based on his report it appears that there is ample surface water available to provide for the 50 initially developed lots.

You further state that at the time the project was initiated it was not feasible to construct a ground [surface?] water system to the first phase, and that it would have been necessary to construct a conveyance system across Lexington Hills land. In response, I am reminded of the hundreds of temporary surface conveyance systems constructed in the Boise valley during the recent drought. In most cases it is a simple and relatively inexpensive matter to convey irrigation water for the distances required in this case. Temporary easements across Lexington Hills land could likely have been obtained had they been sought in a timely manner.

In summary, it appears from the data presented to date that the exclusion of the first 50 lots in Echo Creek Subdivision from the pressurized surface water irrigation system is a matter of failure to plan rather than a matter of economic feasibility. I have not yet seen any numbers which would indicate that a comprehensive feasibility study was conducted prior to the construction of the 50 lots which indicated that surface water should not be supplied to

NOV 08 1995

the lots. On the contrary, the explanations provided to date appear to be after-the-fact rationalization of failure to comply with an important condition of the water right permit.

To comply with both the letter and spirit of Condition No. 6 of Permit No. 63-11413 I cannot recommend that these 50 lots be allowed to receive irrigation water from solely the ground water system. Because this season is nearly completed, and because irrigation has been initiated on only a portion of the 50 lots, we will allow Echo Creek to continue to provide irrigation from ground water this season only. However, beginning with the 1994 irrigation season this office plans to enforce Condition No. 6 and will not allow irrigation from solely ground water. This allows the next nine months for construction and installation of a pressurized system for the 50 lots.

If you have data that would lead to a different conclusion in this matter, please feel free to contact me soon and I would be willing to review the matter further. In a related matter, by copy of this letter I would like to advise Mr. Grant that the water measurement data submitted for this project for the first half of 1993 is satisfactory.

Sincerely,

David R. Tuthill

David R. Tuthill, Jr., P.E.
Manager, Western Regional Office

cc: L.W. Grant, III
L. Glen Saxton (IDWR State Office)
Steve Lester

NOV 08 1993

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

July 16, 1993

Mr. L. W. Grant III
Davis Wright Tremaine Law Offices
702 West Idaho Street, Suite 700
Boise, ID 83702

RE: Water Right Permit No. 63-11[illegible] for the City of Eagle

Dear Mr. Grant:

This letter is a follow up to my letter to you dated 1/8/93 concerning conditions of approval for the above-referenced water right for the Lexington Hills and Echo Creek Subdivisions. The permit owner is responsible for meeting the conditions of approval to maintain the validity of the water right. I understand that you or your office are representing the permit owner of record, the City of Eagle.

For condition no. 6, this office received a report on 4/14/93 with a cover letter from Merrily Munther. The feasibility of using existing surface water for irrigation within the developments was discussed. The information for Lexington Hills was found to be acceptable with respect to condition no. 6, but discussion of the Echo Creek portion of the project was not considered acceptable.

Specifically, the three page Echo Creek report does not adequately explain why surface water cannot be used for irrigation use on the first phase of the development (fifty lots, see page 1 of attached copy of report). The manager of this office would like to know why these 50 lots are not capable of receiving surface water.

For condition no. 8, totalizing data from the well(s) in use were to be provided by 6/30/93 by the permit owner. The information was to be sent to this office but has not been received. Please remind the water right owner that submitting totalizing data is the sole responsibility of the owner and that this office would prefer not to send regular reminders regarding condition no. 8. Totalizing data should be submitted by 6/30 and 12/31 of each year.

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In summary, partial compliance with condition no. 6 but no compliance with condition no. 8 is found. A reply meeting the terms of the conditions is requested no later than August 16, 1993 to maintain the water right in good standing. Please advise the pertinent parties, not withstanding the intention of this office to be accommodating within reasonable limits, that delays such as those experienced in the recent water right filing situation[1] do not advance the cause of protecting the water right.

If I can provide any help in this matter, please do not hesitate to contact me. A reply can be sent to Dave Tuthill or to me at this office.

Sincerely,

Steve Lester
Water Rights Supervisor

CC: Merrily Munther
Enclosure

NOV 08 1993

1. Application for Permit No. 63-12017 to provide a water amenity.

LEXINGTON HILLS
EAGLE
~~2417 Bank Drive, Suite 101 • Boise, Idaho 83705 • 208 939-6000~~
1815 E. STONYBROOK COURT
EAGLE, ID 83616

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MAY 1 3 1993
Department of Water Resources

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APR 21 1993
Department of Water Resources
Western Regional Office

April 21, 1993

Department of Water Resources
2735 Airport Way
Boise, ID 83705

RE: Application for Permit
Lexington Hills, Inc. and Treasure Valley Village

Dear Sir:

Enclosed is our "Application for Permit" and our check #418 in the amount of $65.00 for filing fee. During the process of this application, if you have any questions or need any information, please call Sherl Chapman at 344-6690.

Sincerely,

LEXINGTON HILLS, INC.

Georgia Mackley

Georgia Mackley

:gm
Enclosure
CC: Dave Roylance
Merrily Munther
Sherl Chapman
Treasure Valley Village w/enclosure

Permit 63-11413 complaint investigation resulted in a new filing

Appl. 63-12017 filed 4/21/93 SC

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MAY 21 1993

PENLAND MUNTHER BOARDMAN
CHARTERED · ATTORNEYS AT LAW

350 NORTH 9TH, SUITE 500
P.O. BOX 199
BOISE, ID 83701
TELEPHONE (208) 344-4566
FACSIMILE (208) 344-9836

RICHARD C. BOARDMAN*
JAMES C. DALE
FORREST R. GOODRUM**
LARRY L. GOINS
MERRILY MUNTHER
PAUL S. PENLAND***

*ALSO ADMITTED IN WASHINGTON
** ALSO ADMITTED IN NEW JERSEY
*** ALSO ADMITTED IN OREGON

April 12, 1993

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APR 14 1993
Department of Water Resources
Western Regional Office

Mr. Steve Lester
Water Rights Supervisor
Idaho Department of Water Resources
Western Region
2735 Airport Way
Boise, Idaho 83705–5082

Re: Domestic Water System – Lexington Hills and Trial Creek
f/k/a Echo Creek
Identification No. 63–11413

Dear Steve:

Since you and I discussed the existing permit held by the City of Eagle back in January of this year, I know you and Dave Tuthill have talked several times with Jo Beeman and Sherl Chapman regarding the efforts of the developers and the City to address your concerns. You are probably aware, therefore, that the developers have decided to apply for a separate permit to appropriate from the same points of diversion for storage in the ponds within these projects for aesthetic, recreational and wildlife purposes. That application is in the process of being completed and should be filed with DWR by the end of next week.

The developers have sent a proposed form of stipulation to the City of Eagle by which the City would acknowledge its awareness that the granting of the permit to the developers for these additional purposes may necessitate the retirement of part of the acreage allowed to be irrigated under the existing permit. We are hopeful that stipulation will be ready to send along with the application.

In the meantime, the developers have caused feasibility studies to be prepared for each of the respective developments concerning the feasibility of using the full surface water rights owned by each of the developments for irrigation of lots in those subdivisions. The reports are enclosed. The report for Lexington Hills was prepared by Dave Roylance and that for Trail Creek, formerly known as Echo Creek, was prepared by Joe Canning. Although you had indicated to me that these reports would not be required until June 30th, we feel it is desirable for you to have them in order to consider the application for a new permit and also to demonstrate the good faith efforts of the developers to satisfy the remaining conditions of the permit previously granted.

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Please contact me if you have questions. Of course, questions of a more technical nature should be answered by the respective engineers and you are welcome to contact them directly.

Very truly yours,

Merrily Munther

MM:klw

cc: Mona Mack, Eagle City Attorney
Dave Roylance
Sherl Chapman
Richard Burleigh

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B. & A. Engineers, Inc. 619 Grove Street Boise, Idaho 83702

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APR 1 4 1993
Department of Water Resources
Western Regional Office

Echo Creek Subdivision
Surface Water Irrigation
Feasibility Report

By: J. D. Canning, P.E.
March 21, 1993

Introduction

The intent of this report is to analyze the amount of surface irrigation water available to lands occupied, or to be occupied, by the series of Echo Creek Subdivisions in Eagle, Idaho. The developers of the project hold rights to 60 inches of water that is carried in the Farmer's Union Canal that lies northwesterly of the project site.

The site lies at the northwest corner of Idaho State Highway 55 and Floating Feather Road. Currently the development is comprised of the first phase of fifty lots. Surface irrigation water has NOT been provided to this phase. why not?

It is proposed to install surface irrigation to each of the remaining phases for a total of approximately 260 lots. Several common areas are to be developed to utilize the surface irrigation water. These common areas are estimated to cover approximately thirteen acres.

Land to Irrigate

The total site is comprised of 115 acres. The following are deductions from the total:

1. Phase One - 20 acres
2. Roads - 10 acres
3. New Highway - 8 acres
4. Floating Feather Road Right-of-way - 1.5 acres
5. Homes and Improvements - 12.5 acres

Net Total Irrigable Land Area - 63 acres

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Irrigation Water Requirements

Water needs at 70% delivery efficiency:

April	2,950 G/D/A
May	4,885 G/D/A
June	6,650 G/D/A
July	8,830 G/D/A (Peak Demand)
August	7,480 G/D/A
September	4,665 G/D/A
October	2,370 G/D/A

Normally surface irrigation water is available during the period of time from April 15th to October 15th.

Average Lot Water Usage

Assuming each lot has an approximate irrigable land area of 7,000 square feet, and if it is irrigated on an alternate day schedule, each lot will require 2,840 gallons.

At a rate of 15 GPM, each irrigation will require 190 minutes or 3 hours and 10 minutes to water each lot.

Total Water Demand

Watering 63 acres at 8,830 G/D/A (includes lots and common areas) the total daily consumption of irrigation water will be 556,290 gallons per day or 386 GPM. This is 43 inches of water which is less than the 60 inches available.

Proposed Irrigation Schedule

Allow 4 hours for each lot to receive water every other night and watering common areas for 6 hours every other night.

1/4 of Lots	Midnight to 4 AM	Odd
1/4 of Lots	4 AM to 8 AM	Odd
1/4 of Lots	Midnight to 4 AM	Even
1/4 of Lots	4 AM to 8 AM	Even
1/2 Common Areas	Midnight to 6 AM	

Lot flow rate (15 GPM each):	975 GPM
Common area flow rate:	320 GPM
Total flow rate:	1,295 GPM

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Summary

The available water of 60 inches of water is adequate to provide irrigation water to the remainder of the Echo Creek Subdivisions. Since it is proposed to deliver water only during cooler times (night and early morning), irrigation water storage will have to be provided to temporarily hold water during non-watering hours. This storage will permit restricted diversion rates from the Farmer's Union Canal that do not exceed the allowed 60 inches of water.



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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE TYPEWRITER OR BALLPOINT PEN

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

pg 1

1. WELL OWNER
Name LEXINGTON HILLS INC.
Address 2417 BANK DR BOISE ID 83705
Drilling Permit No. 63-92-W-[illegible]70
Water Right Permit No. [illegible]-11413

2. NATURE OF WORK NEW WELL
☐ New well ☐ Deepened ☐ Replacement
☐ Well diameter increase
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

3. PROPOSED USE MUNICIPAL
☐ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (specify type)

4. METHOD DRILLED REVERSE ROTARY
☐ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary
☐ Cable ☐ Dug ☐ Other _____

5. WELL CONSTRUCTION SEE ATTACHED
Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____

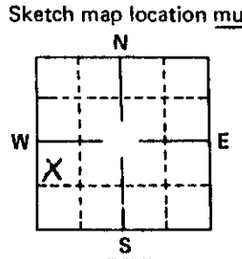
Thickness	Diameter	From	To
_____ inches	_____ inches +	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

Was casing drive shoe used? ☐ Yes ☒ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☐ Yes ☒ No
How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun
Size of perforation _____ inches by _____ inches

Number	From	To
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet

Well screen installed? ☒ Yes ☐ No
Manufacturer's name ROSCOE MOSS
Type STAINLESS Model No HEAVY
Diameter ____ Slot size ____ Set from _____ feet to _____ feet
Diameter ____ Slot size ____ Set from _____ feet to _____ feet
Gravel packed? ☒ Yes ☐ No ☐ Size of gravel 3/8-
Placed from 115 feet to 615 feet
Surface seal depth 115 Material used in seal: ☒ Cement grout
☒ Bentonite ☐ Puddling clay ☐ _____
Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☒ Overbore to seal depth
Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld ☐ Cemented between strata
Describe access port 2" PIPE

6. LOCATION OF WELL
Sketch map location must agree with written location.



Subdivision Name _____
Lot No. _____ Block No. _____
County ADA
NW ¼ SW ¼ Sec. 3, T. 4 N ☐ S ☐ R. 1E E ☐ W ☐

APR 17 1992
Department of Water Resources
Western Regional Office

7. WATER LEVEL
Static water level 90 feet below land surface.
Flowing? ☐ Yes ☐ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature _____ °F. Quality _____
Describe artesian or temperature zones below.

8. WELL TEST DATA NOT AVAILABLE
☐ Pump ☐ Bailer ☐ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped

9. LITHOLOGIC LOG

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
28					
	0	4	TOPSOIL		X
	4	10	SANDY LOAM		X
	10	15	CLEACHE		X
	15	30	CRSE SAND		X
	30	33	BROWN CLAY		X
	33	50	CRSE SAND		X
	50	56	BRN CLAY		X
	56	101	CEMENTED GRAVEL	X	
	101	115	BRN CLAY		X
	115	123	FINE BRN SAND	X	
	123	126	BRN CLAY		X
	126	143	FINE BRN SAND	X	
	143	172	BRN CLAY		X
	172	235	GREY CLAY		X
	223	350	SANDY GREY CLAY		X
	350	353	FINE TO CRSE SAND	X	
	353	451	SANDY GREY CLAY		X
	451	469	FINE GREY SAND	X	
	469	475	FINE SAND AND CLAY		X
	475	478	FINE SAND	X	
	478	499	SANDY GREY CLAY		X
	499	513	FINE TO MED SAND	X	
	513	519	GREY CLAY		X
	519	528	FINE TO MED SAND	X	
	528	553	GREY CLAY		X
	553	555	FINE TO MED SAND	X	
	555	561	GREY CLAY		X
	561	575	FINE TO MED SAND	X	
	575	592	GREY CLAY		X
	592	598	FINE [illegible] SAND	X	
	598	615	GREY CLAY		X

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10. Work started 4/4/92 finished 4/14/92

11. DRILLERS CERTIFICATION
I/We certify that all minimum well construction standards were complied with at the time the rig was removed.
Firm Name PETE COPE DRILLING Firm No. 213
Address 6505 W CHINDEN Date 4/14/92
Signed by (Firm Official) Joseph Jones
and
(Operator) Joseph Jones

USE ADDITIONAL SHEETS IF NECESSARY — FORWARD THE WHITE COPY TO THE DEPARTMENT

C

pg. 2

LEXINGTON HILLS INC
2417 BANK DRIVE
BOISE ID 83705
Permit# 63-92-W-170

"16"casing record .250 wall welded

1.5	-	499	500.5
509	-	519	10
529	-	554	25
574	-	592	18
602	-	612	10

563.5 total casing

16" Screen record .30 slot Stainless Steel Roscoe Moss Continous wire.

499	-	509	10
519	-	529	10
554	-	574	20
592	-	602	10

50 total screen

613.5 total casing + screen

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MAY 21 1993

4N 1E Sec 3

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MAR 8 1993
Department of Water Resources
Western Regional Office

DAVIS WRIGHT TREMAINE
LAW OFFICES
702 WEST IDAHO STREET · SUITE 700 · BOISE, IDAHO 83702
(208) 338-8200

L. W. GRANT, III
(208) 338-8245

March 5, 1993

Mr. Steve Lester
Water Rights Supervisor
Idaho Department of Water Resources
Western Region
2735 Airport Way
Boise, ID 83705-5082

Re: Application for Amendment of Water Permit No. 63-11413

Dear Steve:

We would like to follow up with you concerning our letter to you of March 2, 1993.

Yesterday, March 4th, both Josephine Beeman and I, representing the City of Eagle ("City"), met with the developers of the Lexington Hills and Echo Creek Subdivisions concerning the proposed amendment of Water Permit No. 63-11413 ("Permit") to provide the storage of water for aesthetic and recreational purposes under the Permit. We presented a number of options to the developers and they will respond to the City in a few days. The City will then need to make a decision based upon the responses received from the developers at the next City Council meeting which is scheduled for March 23rd.

We will advise you on Wednesday, March 24th, following the council meeting, the direction the City has elected to pursue.

Thank you for your patience on this matter.

Sincerely,

DAVIS WRIGHT TREMAINE

L. W. Grant, III

LWG:ko

c: Ms. Merrily Munther

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MAY 21 1993

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Boise

CONVERSATION MEMORANDUM

DATE 3/4/93

FILE 63-11913

NAME OF PARTY Jo Beaman

EMPLOYEE Steve Lorton

RE:

Called to let us know that she attended a meeting recently with city, developers, etc. Next city council mtg. at which filing can be discussed is 3/23/93. Said will contact dept. on 3/24 with update of mtg.

Dept. may be receiving a letter before then from one or more players in this situation with more INFO.

MAY 21 1993

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MAR 3 1993
Department of Water Resources
Western Regional Office

DAVIS WRIGHT TREMAINE
LAW OFFICES
702 WEST IDAHO STREET · SUITE 700 · BOISE, IDAHO 83702
(208) 338-8200

L. W. GRANT, III
(208) 338-8245

March 2, 1993

Via Facsimile

Mr. Steve Lester
Water Rights Supervisor
Idaho Department of Water Resources
Western Region
2735 Airport Way
Boise, ID 83705-5082

Re: Application for Amendment of Water Permit No. 63-11413

Dear Steve:

We have been looking at the City of Eagle's ("City") options concerning amendment of Water Permit No. 63-11413 ("Permit") changing a beneficial use under the Permit. We have been requested to amend the Permit, so that aesthetic and recreational uses would be a beneficial use, allowing for the filling and storage of groundwater in the lakes in the Lexington Hills and Echo Creek Subdivisions.

We would like to make you aware that on Thursday, March 4, we will be meeting with the developers of the Lexington Hills and Echo Creek Subdivisions to discuss a number of our concerns with the proposed amendment of the Permit. As such, we will not be able to submit, the application for amendment of the Permit by March 5th as you had requested. Until we determine what direction the City will take concerning the amendment of the Permit, we will not be able to give you a time frame for submitting the application for amendment. We will contact you either Thursday afternoon or Friday morning and advise you regarding how and when an application for amendment will be filed.

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MAY 2 1 1993

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Boise

On behalf of the developers and homeowners, we respectfully request that you continue to allow the City to fill the lakes at the Lexington Hills and Echo Creek Subdivisions with groundwater until the commencement of the irrigation season, when groundwater may be furnished under the Permit before surface water is flowing in the Farmers Union Canal, provided there is a demand for irrigation water.

If you direct us to shut off the groundwater to these lakes, please send a copy of your correspondence to Monte Marcus at the Idaho Department of Health and Welfare, Division of Environmental Quality. The City wants to fully cooperate with the Idaho Department of Water Resources, but we do not want to run afoul of the Department of Environmental Quality's requests concerning the lining of the lakes.

Should you have any questions or comments please do not hesitate to let us know.

Sincerely yours,

DAVIS WRIGHT TREMAINE

L. W. Grant, III

LWG:ko

c: Ms. Barbara Montgomery via U.S. Mail
Ms. Merrily Munther via Facsimile
Mr. Monte Marcus via U.S. Mail

851674\WATERSYS\00012.LTR/3.2.93
Boise

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MAY 2 1 1993

CONVERSATION MEMORANDUM

DATE 2/22/93

FILE 63-11413

NAME OF PARTY JD Beamon

EMPLOYEE Steve Lester

RE: Question re Permit

Does "domestic" mean that cannot use this to irrigate at all. Would irrigation use only be ~~can~~ covered by irrig. line item in permit?

My interpretation of permit uses:

Domestic = in-home use only

Irrigation = yards, common areas etc.

This is the intent of designating uses by dom. & irrig. in multi-home permit.

Told her I'd call Glen Saxton to get his opinion as she requested. I called Glen & he agreed with my interpretation.

Therefore, domestic use in permit does not include any irrigation use.

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MAY 21 1993

CONVERSATION MEMORANDUM

DATE 2/22/93

FILE 63-11413

NAME OF PARTY LW (Buzz) grant, Attny for City of Eagle

EMPLOYEE Steve Lester

RE: New WR Filing For Amenity

Called him to discuss needed filing, which is now late.
Originally due 2/22/93
extended 2/10 per 1/27 telecon w/ M. Munther
" 2/19 " 2/8 " " S. Chapman
Mr. Grant told me that city council signed filing last wk.
& S. Chapman transmitted it to attorney's office. Now
Mr. Grant & Ms. Beamon (also City attys.) have concerns
& filing is need to discuss with S. Chapman, but he is
out of town until next week.
Filing is in process but needs more work.
I reluctantly agreed to extend deadline again but mentioned
that at some point the postponements would become
unacceptable.

New deadline ≈ 3/5/93.

If dept. needs to regulate these wells, Mr. grant
asked that he be called & he will have Keith Stoker
take action to shut wells down.

RECEIVED

MAY 21 1993

— Vault File —

IDAHO DEPARTMENT OF WATER RESOURCES

MEMO-REPLY	Date 1/27/93

To Carolyn Andrews

From Steve Lester

- ☐ Take Appropriate Action
- ☐ Draft A Reply
- ☐ Action Required By _____
- ☐ See Me
- ☐ Call Me
- ☐ Return To Me
- ☒ For Your Information
- ☐ For Your Approval
- ☐ For Your Comments
- ☐ As You Requested
- ☐ Copy (____ Copies)
- ☒ File

Comments Permit 63-11413

(1) Please place a note on top of approved permit: "contact people, SEE 1/27/93 conv. memo".

(2) Letter from Davis Wright Tremaine Law Offices (Bangs grant) dated 1/26/93:

Reply

I will respond to this sam. No action needed at S.O.

Thanks,

SL

Signed _____ Date _____

CONVERSATION MEMORANDUM

DATE 1/27/93

FILE 63-11413

NAME OF PARTY Merrily Munther 344-4566

EMPLOYEE Steve Lester

RE:

NAMES & AFFILIATIONS OF CONTACT PEOPLE:

L.W. "Buzz" Grant - Davis Wright Tremaine Law Offices
338-8200 - Atty. for City of Eagle

Merrily Munther - Atty. for Lexington Hills Subd.
344-4566

Dave Roylance - Developer, original applicant
et al
336-7390

City of Eagle - Permit Owner per 9/1/92 assignment

Barbara Montgomery - City of Eagle government
phone?

Keith Stokes - consultant for Lexington Hills, to
375-1130 provide semi-annual totaling data

Sheryl Chapman - consultant for Lexington Hills, will
344-6690 be filing amendment per my letter of
1/8/93

RECEIVED
MAY 21 1993

cont next pg.

CONVERSATION MEMORANDUM

DATE 1/27/93 cont.

FILE 63-11413

NAME OF PARTY M. Munther

EMPLOYEE

RE:

For Lexington Hills:

Requested info re Cond. #6 (feasibility study) - why imposed? Told her I'd talk to glen & & then call her.

Amendment: City Council meets 1st & 3rd Tues. p.m. - will have amendment for signature but need to have deletion to Regis > 2/2. *

Told her OK as long as receive amendment no later than 2/10/93.

MAY 21 1993

* Had one ready recently but corrections were needed per city atty.'s input - so delayed submittal of amendment for short period.

RECEIVED
JAN 27 1993
Department of Water Resources
Western Regional Office

DAVIS WRIGHT TREMAINE

LAW OFFICES

702 WEST IDAHO STREET · SUITE 700 · BOISE, IDAHO 83702
(208) 338-8200

L. W. GRANT, III
(208) 338-8245

Will respond to this after amendment is filed in early Feb.
-SE 1/27/93

January 26, 1993

Mr. Steve Lester
Water Rights Supervisor
Idaho Department of Water Resources
Western Region
2735 Airport Way
Boise, ID 83705-5082

Re: Permit No. 63-11413

Dear Steve:

We are writing as City Attorneys for the City of Eagle ("City") in response to your letter of January 8, 1993 ("Letter"). We hope the following comments will clarify any misunderstandings concerning the use of the water under Permit No. 63-11413 (the "Permit").

In your Letter, you requested that the City provide you with the feasibility study required as Condition No. 6 to the Permit by June 30, 1993. It has been represented to us, by our predecessors in interest to the Permit, that the feasibility study is no longer necessary since surface water will not be used in the Echo Creek Subdivision, formerly known as Trail Creek Ranch. After the Permit was issued, our predecessors in interest determined that it was feasible to deliver surface water for irrigation to all parcels in Lexington Hills, including those of less than one-half acre in size.

Based upon these facts, it is our understanding that the feasibility study is no longer necessary. If this is not the case and if you would still like for the City to prepare the feasibility study, please let us know, so that we may request its preparation.

Your Letter also raises Condition No. 8 under the Permit, which requires that flow measurement devices be installed at the wells and semi-annual reports be submitted to IDWR, beginning June 30, 1993. The required flow measurement devices at the wells have been installed since some time prior to our letter to you of

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FAX: (208) 338-8299
ANCHORAGE, ALASKA · BELLEVUE, WASHINGTON · HONOLULU, HAWAII · LOS ANGELES, CALIFORNIA
PORTLAND, OREGON · RICHLAND, WASHINGTON · SAN FRANCISCO, CALIFORNIA · SEATTLE, WASHINGTON · WASHINGTON, D.C.

September 25, 1992. We have ordered the flow measurement meter which is necessary to monitor the flow of water into the lakes at Lexington Hills. That meter should be installed within the next thirty days.

The last issue which was raised in your Letter, concerns the furnishing of well water to fill the two lakes at Lexington Hills. While we recognize that the furnishing of water to refill the lakes during non-irrigation season may not be a permitted use under the Permit, it was being done so without the City's knowledge or approval. The directive to fill the lakes was made by the previous owner of the Permit and was done so in order to maintain the lining of the lakes.

As you may know, the Idaho Department of Health and Welfare, Division of Environmental Quality ("DEQ") required that these lakes be lined to prevent seepage of irrigation water into the ground water supply. Monte Marcus at DEQ is familiar with the required lining of the lakes.

depends on amendment

We would like to request that domestic well water be permitted to refill the lakes, as is necessary to keep the lining submerged and to prevent the cracking of the lining until irrigation season commences. It is our plan to apply for an amendment to the Permit to provide for a change in use for aesthetic amenities as you outlined in Option Number 4 in your Letter. Our predecessors in interest have represented to the City, that they have retained Cheryl Chapman to assist with that process.

Should you have any questions or comments please do not hesitate to let us know.

Sincerely yours,

DAVIS WRIGHT TREMAINE

L. W. Grant, III

LWG:ko

c: Barbara Montgomery
Merrily Munther
Keith Stokes

851674\WATERSYS\00005.LTR
Boise

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MAY 21 1993

63-11413

Roylance & Associat P.A. E eers • Surveyors • Landplanners

4619 Emerald, Suite D-2, Boise, Idaho 83706 Telephone (208) 336-7390 Fax (208) 336-7391

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JAN 25 1993
Department of Water Resources
Western Regional Office

January 21, 1993
Project No.1347

Keith Stokes
EM2 Co.
4312 South Rimview Way
Boise, Idaho 83705

RE: LEXINGTON HILLS DOMESTIC WATER SYSTEM

Dear Keith:

As we discussed, Lexington Hills is authorizing you to provide totalizing flow data directly to the Idaho Department of Water Resources. As a condition of the Lexington Hills Water Permit, (which has been assigned to City of Eagle) we are required to submit flow data to the Idaho Department of Water Resources on or around June 30 and December 31 of every year.

If you have any questions regarding the reporting requirements please direct them to Steve Leister at the Idaho Department of Water Resources. Additionally please provide a copy of your Idaho Department of Water Resources flow data submittal to Lexington Hills Inc.

Please call with any question.

Sincerely,

David H. Roylance, P.E., P.L.S.

DHR/nd

cc:Lexington Hills Inc., 2417 Bank Drive, Suite 101,
Boise, ID 83705, 208-939-6000
Steve Leister, Idaho Dept. of Water Resources,
2735 Airport Way, Boise, ID 83705, 208-334-2266
Merrily Munther
Stan McHutchinson

QA\LETTER\PN1347.LTR

RECEIVED
MAR 1 1993

Permit 63-11413

Roylance & Associates P.A.

Engineers • Surveyors • Landplanners

4619 Emerald, Suite D-2, Boise, Idaho 83706

Telephone (208) 336-7390 Fax (208) 336-7391

RECEIVED
JAN 25 1993
Department of Water Resources
Western Regional Office

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Merrily Munther
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QA\LETTER\PN1347.LTR

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MAY 21 1993

CONVERSATION MEMORANDUM

DATE 1/14/93

FILE 63-11413

NAME OF PARTY Dave Rayfarm

EMPLOYEE Steven Keeton

RE: My LETTER TO City of Eagle dated 1/8/93

D. R. called in response to letter:

1) Since wells not as productive as hoped, plan is to use surface water on all lots in both subds. Will provide plans with details. ("Study").

2) Totalizing flow meters were installed on both wells; will provide data.

3) Will file Amendment of permit to cover water amenity. Probably will have Shad Chapman ~~handle~~ handle this.

Written response will be sent soonest. Will proceed to take care of all this soonest.

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IDAHO DEPARTMENT OF WATER RESOURCES

MEMO-REPLY	Date 1-8-93

To GLEN SAXTON

From STEVE LESTER

- ☐ Take Appropriate Action
- ☐ Draft A Reply
- ☐ Action Required By _____
- ☐ See Me
- ☐ Call Me
- ☐ Return To Me

63-11413

- ☒ For Your Information
- ☐ For Your Approval
- ☐ For Your Comments
- ☒ As You Requested
- ☐ Copy (_____ Copies)
- ☒ File

Comments INFO FOR S.O. FILE

(1) 12/12/92 Letter of Complaint.

(2) 12/31/92 Field Inspection.

(3) 1/8/93 Letter to permit owner.
- Response due early Feb. 93 re water quantity.
- " " 6/30/93 re Condition 6 & 8.

(4) CC of 1/8/93 letter was sent to

Reply Complainant.

(5) No further action needed until early Feb. 93 - I will follow-up on this.

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MAY 21 1993

Signed _____ **Date** _____

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DEC 15 1992
Department of Water Resources
Western Regional Office

12 Dec 1992

Department of Water reserce
Boise, Idaho.

Dr

To, Dave Tuthill.

Deer Sir.

This is To follow up on our telephone Conversation of 11 Dec 1992, Regerding water useage at the Lexington hills and Trail Creek Ranch Subdivisions on Floating Feather Road.

There apears To be useage of well water To fill Ponds and Creeks for purlly Asthetic purposes.

As short of water in this Aquifer I object To this practice and did so AT the public hearing on these Subdivisions And was Assured that Canal water would be used for This.

My well at 9601 Prairie Rd started To pump Sand this fall. There is no way To tell if these Ponds have been the Cause or not. I would like To See The useage of water for non essential use STOP.

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MAY 21 1993

AL Thornton

AL Thornton
9601 Prairie Rd
Boise Idaho
83703

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM	USE PERIOD TO	DIVERSION RATE	DIVERSION VOLUME
C	ALFRED THORNTON	08/15/1974	DOMESTIC	01-01	12-31	0.06 CFS	3.5 AFA
C	WANDA C. THORNTON						
	9601 PRAIRIE RD.				TOTAL DIVERSION:	0.06 CFS	3.5 AFA
	BOISE ID 83703						
	(208) 939-0700						

Water Source: GROUNDWATER Tributary to: Stage: LICENSE

Point(s) of Diversion: T04N R01E S11 NENW ADA County

Place of use Legal Description for: DOMESTIC

			NE				NW				SW				SE			
			NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE
T	R	S	Lt Ac	Lt Ac	Lt Ac	Lt Ac	Lt Ac	Lt Ac	Lt Ac	Lt Ac	Lt Ac	Lt Ac	Lt Ac	Lt Ac	Lt Ac	Lt Ac	Lt Ac	Lt Ac
04N	01E	11					D											

POU County: ADA

Non-Irrigation Uses: DOMESTIC FOR ONE HOME, LAWN AND GARDEN

Other Rights: NONE

Other Water Rights Listing Overlapping Place(s) of use:
A63-09656 A63-17262 A63-17420

Remarks: LOT 10, BLOCK 2, SAGE ACRE RANCHETTE

Dates: Exam Made Date: Verified Date: 06/03/1985

Misc: Water District Number: Field Inspection Flag:
Presumption Flag:

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16. Remarks Considerable but unquantified flow comes from Subd. well(s) to amenity. For example, at head of amenity in Lexington Hills Subd., six 1½" pipes flowing full into local pond. ~~@~~ Assume V = 5 fps, then Q = (VA)(6) = ~~(5)(π)(1.5/12)²(6)~~ (5)(π)(1.5/12/2)²(6) ≈ .37 cfs

17. Followup Necessary: X Yes ___ No Describe:

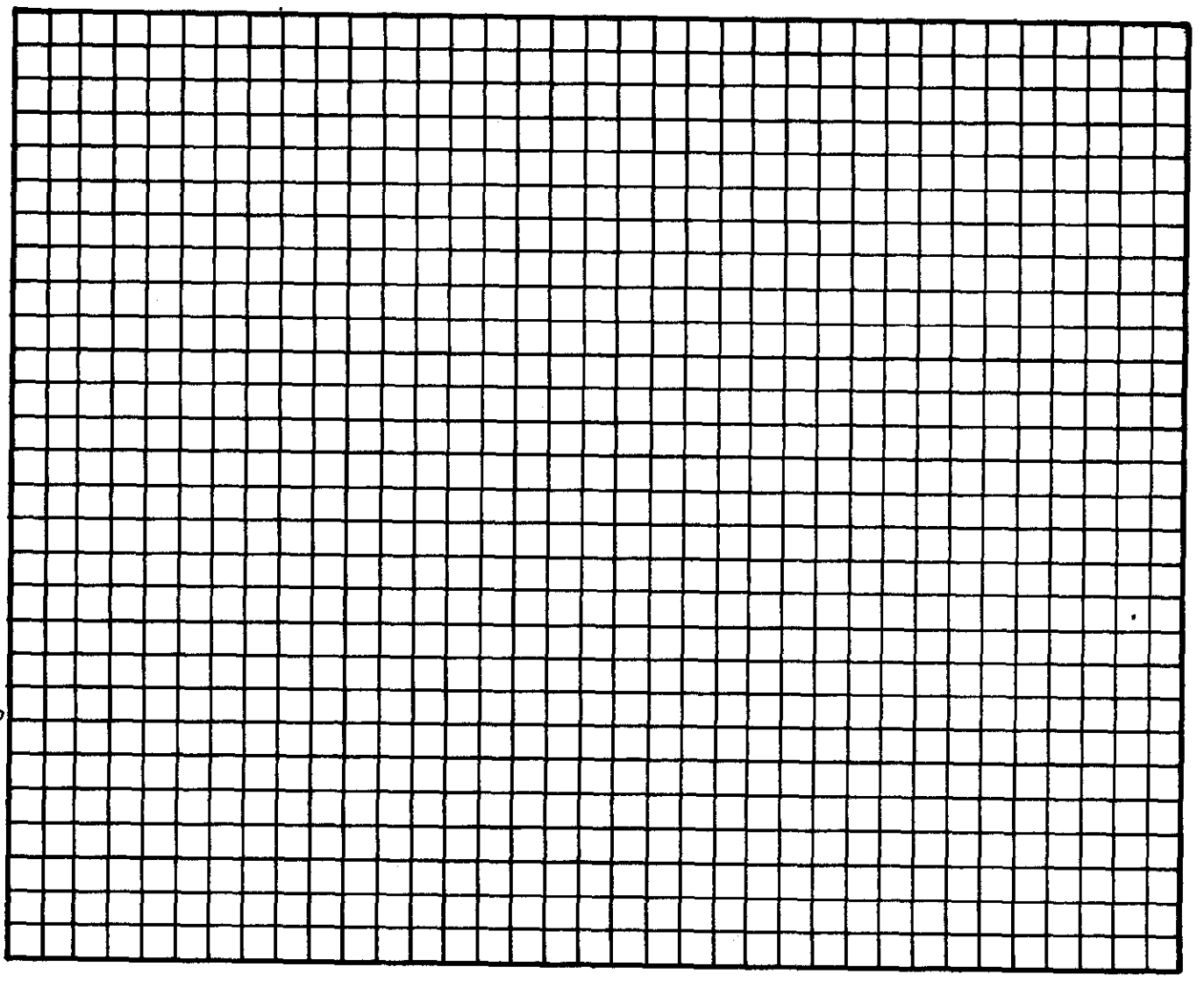
a) Letter to permit holder re well use & conditions of approval.

b) CC of letter to Mr. Thornton.

c) No additional action needed unless owner does not respond to letter in a.

18. Sketch: Include direction, important dimensions, photo locations, landmark or reference point

Attached



19. Action taken at time of inspection:

- Visit & discuss issues with complainant

- Examine well uses in new subdivisions.

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20. Signed: Steve Lorton

21. Follow up action: Date: 1-8-93 Additional Memo Prepared: ___ Yes X No

Describe: Letter to City of Gosh - meet conditions #6 & 8 by 6/30/93. Obtain water right protection for amenity within 20 days (take concrete steps to obtain) or regulatory action needed.

22. Signed: Steve Lorton

Sent CC of 1/8/93 letter to Mr. Thornton.

File No. 63-11413

STATE OF IDAHO
Department of Water Resources

FIELD INSPECTION REPORT

1. Date: 12-31-92 Time: 10:30 a.m Photos: ✓ Yes ___ No

2. Inspection involves: ✓ Water Rights ___ Dam Safety ___ Well Construction or Driller
___ Waste Well ___ Stream Channel Alteration ___ Water Distribution
✓ Other Complaint

3. Reason for inspection: Letter of complaint by Al Thornton dated 12-12-92 ; wells used for water amenity in new subdivisions.

4. Stream name: ___

5. Stream characteristics: ___

6. Stream width: ___ Depth: ___ Gradient: ___ Q: ___ est. ___ meas. ___

7. Location: ___ 1/4 ___ 1/4, Sec. ___, Twp. ___, Rge. ___, County ___

Landmark: ___

8. Person(s) contacted: Al Thornton

9. Dam name: ___ Spilling: ___ No ___ Yes Q ___

Outlet open: ___ No ___ Yes Q ___ Spillway open: ___ Yes ___ Flbrd ___ Gate open

Freeboard: Spillway ___ Crest ___ Res. stage: ___ Rising ___ Falling ___ Rate

10. Area characteristics: Lexington Hills Subd. in SW1/4 S. 3 partly developed.
Trail Creek Subd. in SE1/4 S.3 partly developed.
Two Subd. wells in place in NWSW & SWSW S.3.

11. Weather conditions: Cold & Snowy, ≈ 20°F, windy.

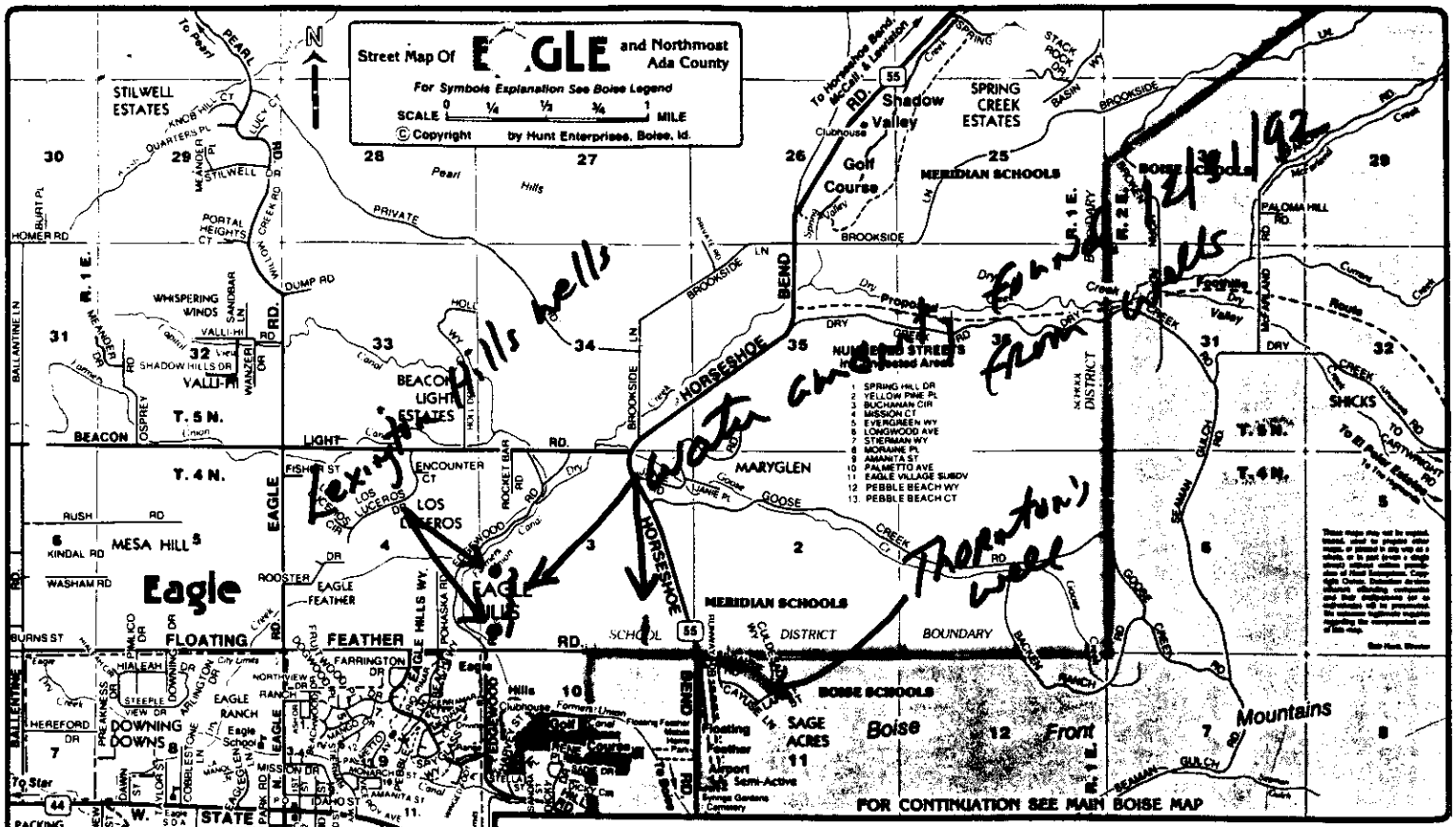
12. Describe activity/conditions inspected: Visited Mr. Thornton at his home & discussed complaint. Service area study & pump test shows that Sage Acres Subd. east of Hwy 55 is in separate aquifer &/or not affected by production wells west of Hwy 55, Mr. Thornton's well problem appears unrelated to new development in 63-11413.

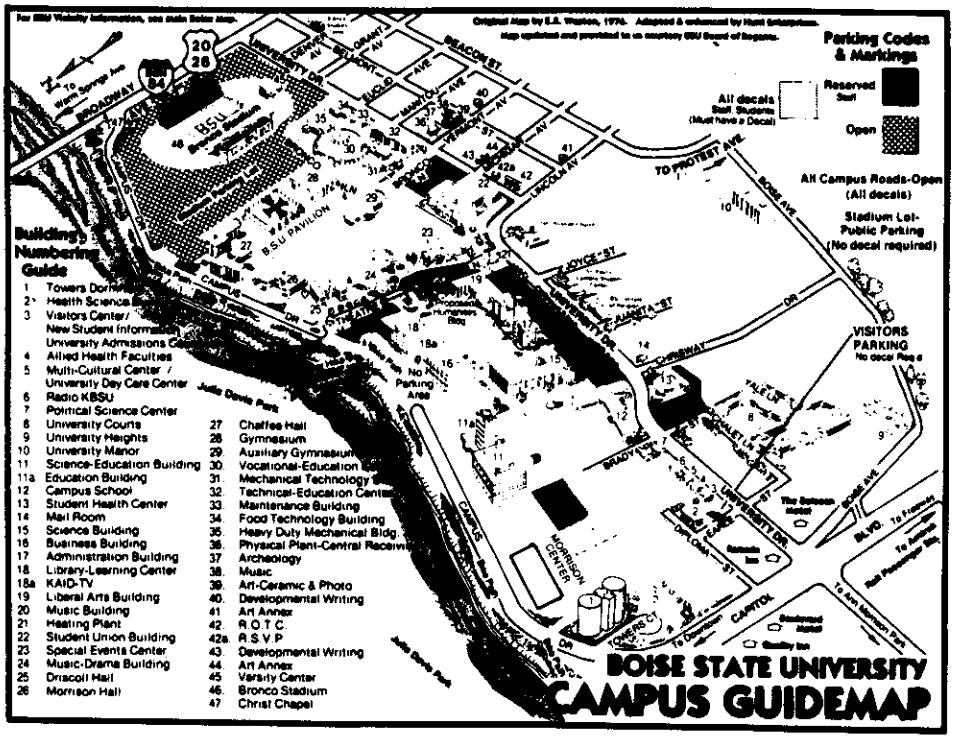
13. Are all requirements being met? ___ Yes
(If not) check type violated: ___ Statutory ___ Rules & Regs X Permit

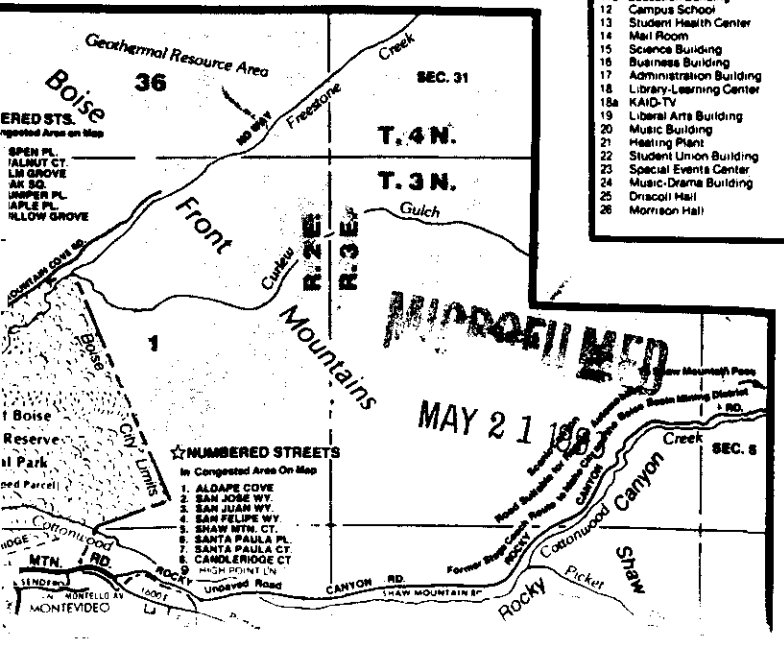
14. Describe impact on others: Also visited the 2 new Subd. & found water amenity in use. Amenity is ~~one~~ pond in Trail Ck. & several ponds connected by ditches in Lexington Hills. Well(s) are in use for amenity now. Ponds total more than 1/2 acre surface area. More than 2 ponds found (reference to developer's 5/92 info - See file).

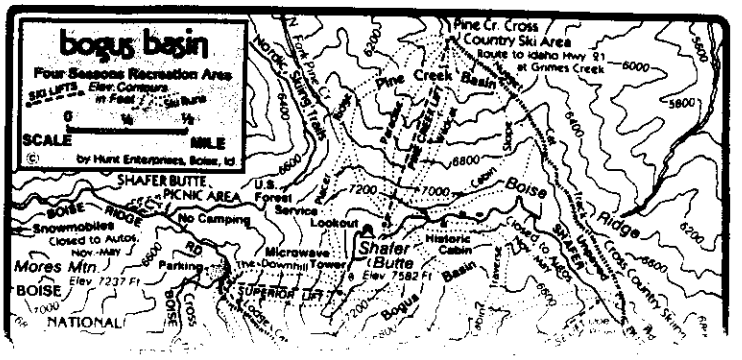
15. Describe alternatives: ___
See 1/8/93 letter to permit owner (City of Eagle)

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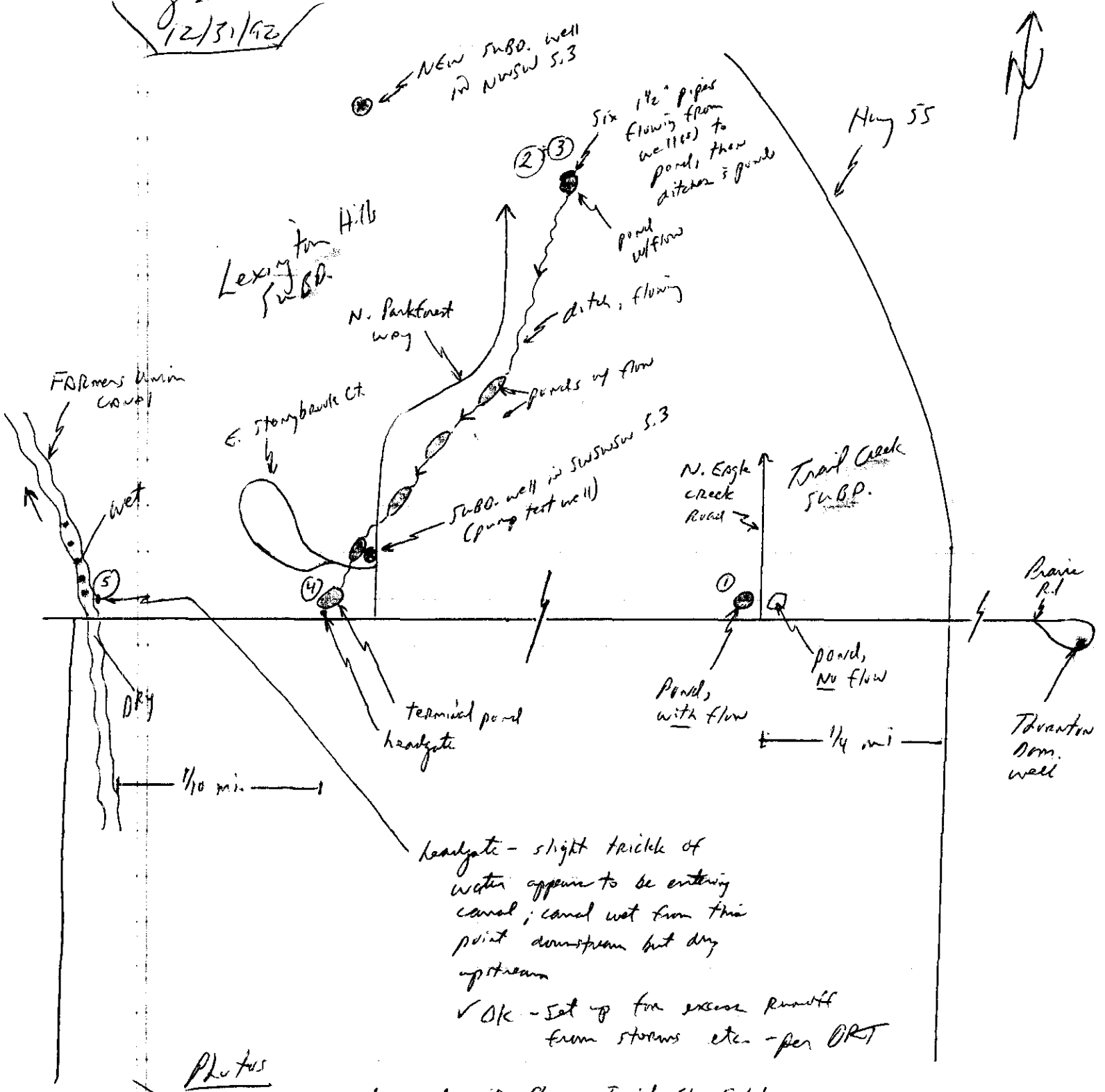

Street Map Of EAGLE and Northmost Ada County
For Symbols Explanation See Boise Legend
SCALE 0 1/4 1/2 3/4 1 MILE
© Copyright by Hunt Enterprises, Boise, Id.
Eagle
MERIDIAN SCHOOLS
BOISE SCHOOLS
FOR CONTINUATION SEE MAIN BOISE MAP
FOR CONTINUATION SEE MERIDIAN MAP ON OTHER SIDE
Lexington Hills wells
water
from
Thornton's well


Parking Codes & Markings
Reserved Staff
Open
All Campus Roads-Open (All decals)
Stadium Lot-Public Parking (No decal required)
Building Numbering Guide
1 Towers Dorm
2 Health Sciences
3 Visitors Center / New Student Information / University Admissions
4 Allied Health Faculties
5 Multi-Cultural Center / University Day Care Center
6 Radio KBSU
7 Political Science Center
8 University Courts
9 University Heights
10 University Manor
11 Science-Education Building
11a Education Building
12 Campus School
13 Student Health Center
14 Mail Room
15 Science Building
16 Business Building
17 Administration Building
18 Library-Learning Center
18a KAID-TV
19 Liberal Arts Building
20 Music Building
21 Heating Plant
22 Student Union Building
23 Special Events Center
24 Music-Drama Building
25 Driscoll Hall
26 Morrison Hall
27 Chaffee Hall
28 Gymnasium
29 Auxiliary Gymnasium
30 Vocational-Education
31 Mechanical Technology
32 Technical-Education Center
33 Maintenance Building
34 Food Technology Building
35 Heavy Duty Mechanical Bldg.
36 Physical Plant-Central Receiving
37 Archeology
38 Music
39 Art-Ceramic & Photo
40 Developmental Writing
41 Art Annex
42 R.O.T.C.
42a R.S.V.P.
43 Developmental Writing
44 Art Annex
45 Varsity Center
46 Bronco Stadium
47 Christ Chapel
VISITORS PARKING
BOISE STATE UNIVERSITY
CAMPUS GUIDEMAP


Geothermal Resource Area
Boise
T. 4 N.
T. 3 N.
Front
Mountains
Cottonwood Canyon
Rocky Canyon
Shaw
Picket
☆NUMBERED STREETS
In Congested Area On Map
1. ALOAPE COVE
2. SAN JOSE WY.
3. SAN JUAN WY.
4. SAN FELIPE WY.
5. SHAW MTN. CT.
6. SANTA PAULA PL.
7. SANTA PAULA CT.
8. CANDLERIDGE CT
9. HIGH POINT LN
UNDER ILLEGIBLE
MAY 21 19


bogus basin
Four Seasons Recreation Area
SCALE MILE
© by Hunt Enterprises, Boise, Id
Pine Cr. Cross Country Ski Area
Pine Creek Basin
SHAFER BUTTE PICNIC AREA
Shafer Butte
Mores Mtn
Elev. 7237 Ft
Elev. 7582 Ft
Boise Ridge
Cross Country Skiing

12/31/92



headgate - slight trickle of water appears to be entering canal; canal wet from this point downstream but dry upstream

✓ Ok - set up for excess runoff from streams etc - per ORT

Photos

① Look SW at pond with flow - Trail Ck. SUBD.

② Look NW at beginning of amenity in Lexington Hills SUBD.; new pump house in background

③ Closer view of #2, storm discharges to pond; six 1½" pipes flowing from a common lateral

④ Look N at terminal pond & headgate

⑤ " " " canal & headgate from FR. Feather Bridge over canal; some water in canal from headgate & downstream.

NOTE is old pond south of FR. Feather across from SUBD. terminal pond - not related, not getting flow from SUBD. well

MAY 21 1993

Permit 63-11413 Photos taken 12/31/92 Pg 1 of 3

-SC



PHOTO ONE- Looking SW at flow into pond at corner of Floating Feather & N. Eagle Creek Rd. in SE¼ S. 3. This is in Trail Creek Subd.

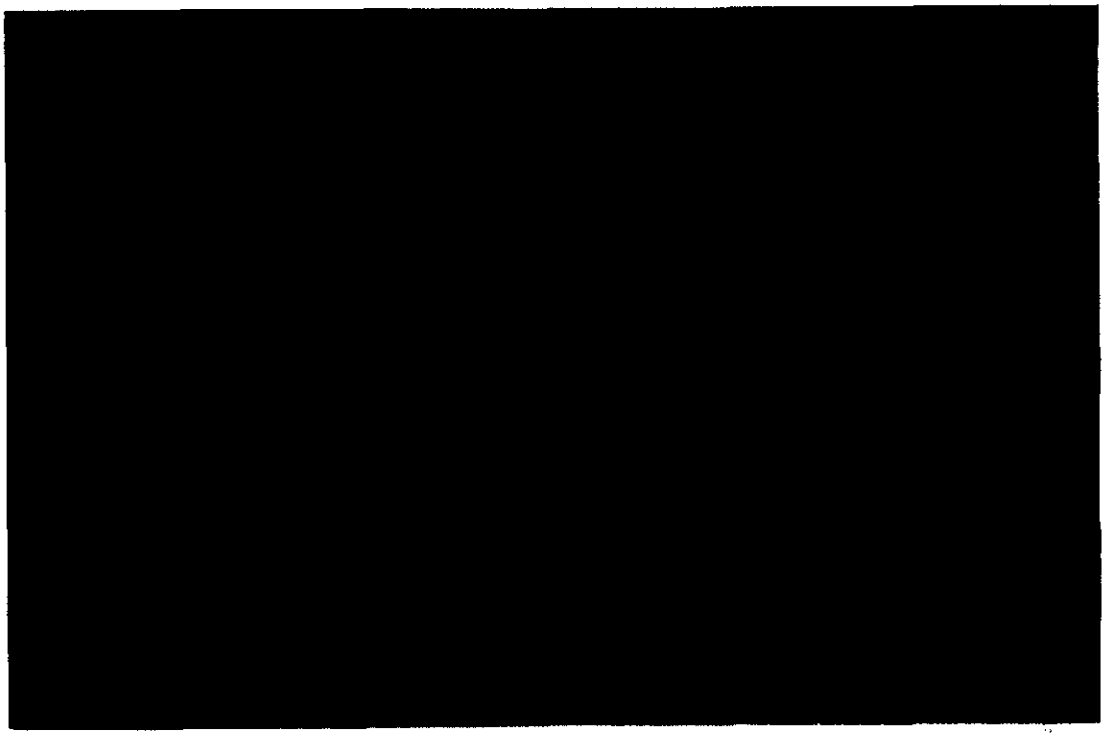


PHOTO TWO- View NW at beginning of water amenity in Lexington Hills Subd. Site is in NWSW S. 3, note pumphouse (newer well) in background.

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Closer view of subject in photo #2- note pipes flowing into pond; found six ±1½" pipes in area. Pumphouse is out of view to right.

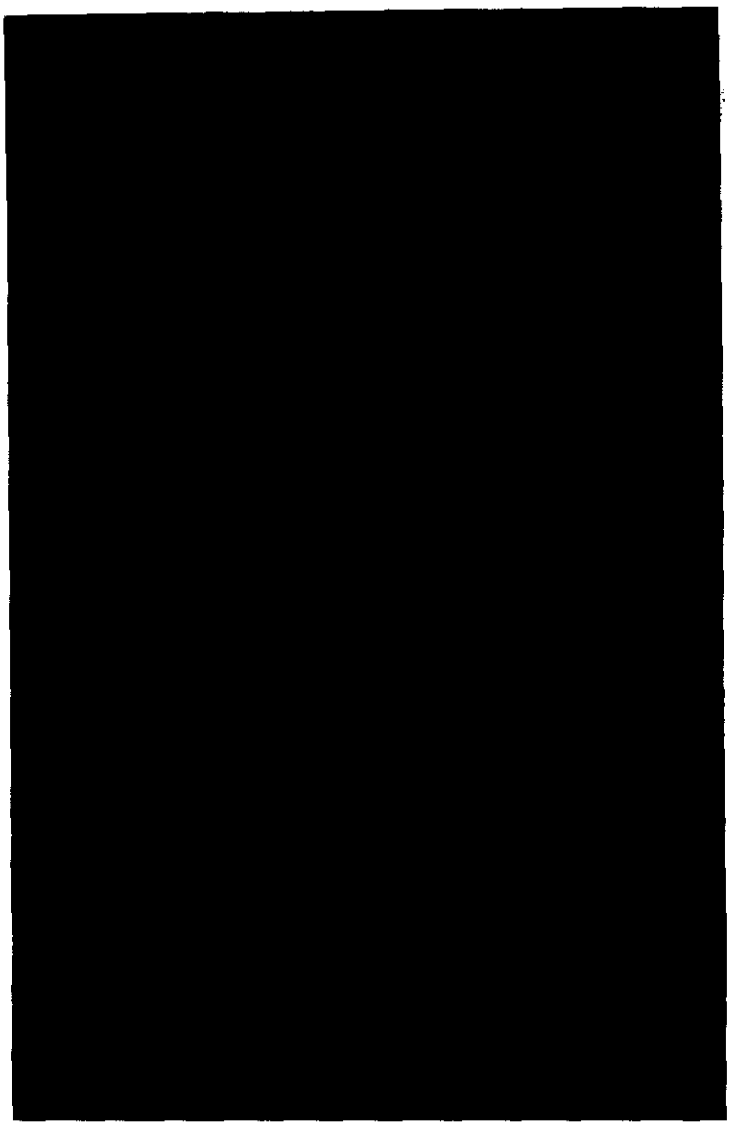


PHOTO THREE-

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Looking N at terminal pond in amenity for Lexington Hills Subd. This is just N of floating fountain & just E of Edgewood.

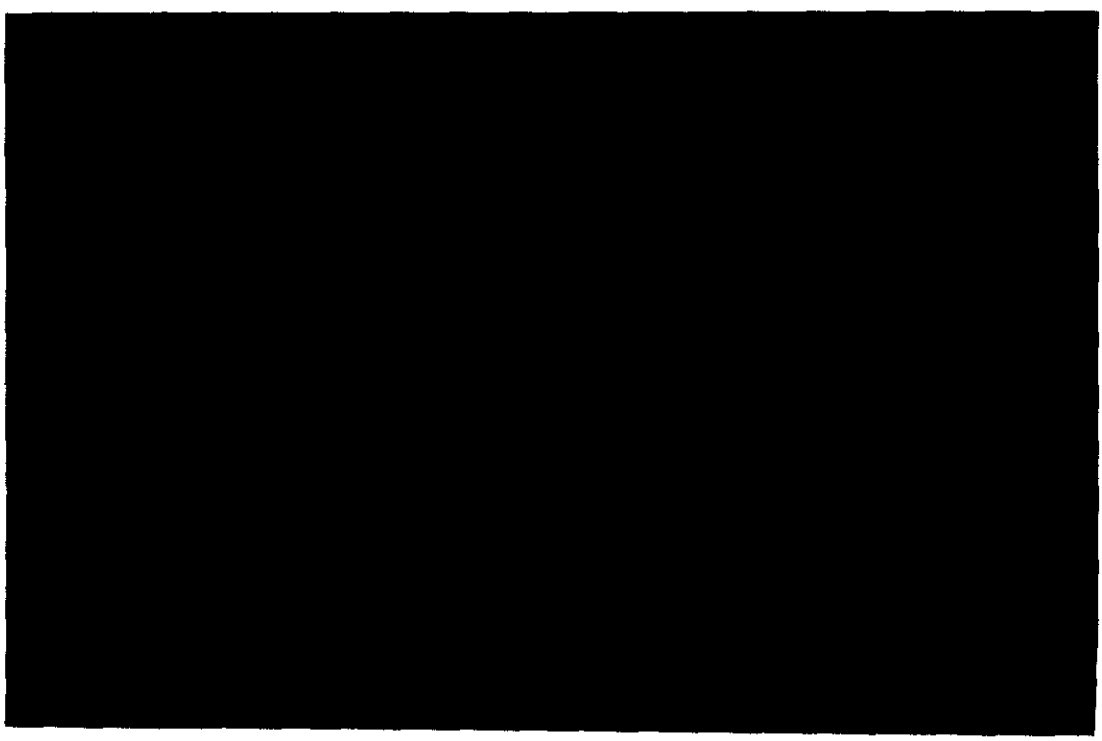


PHOTO FOUR-

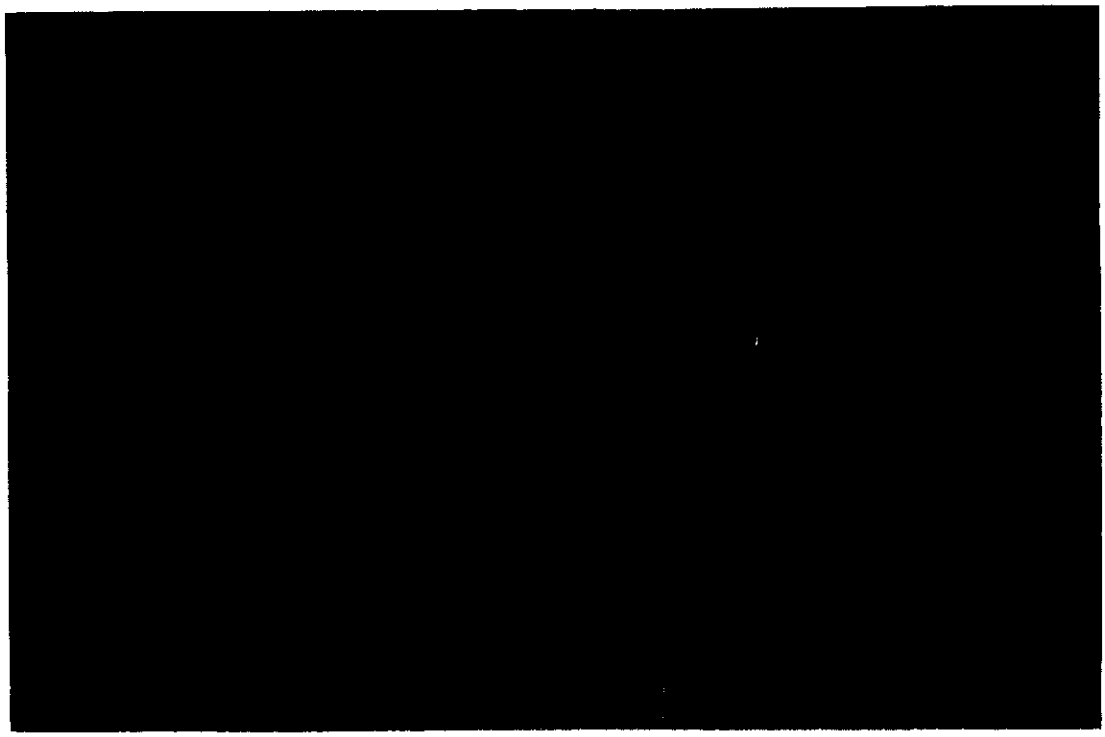


PHOTO FIVE- View N. from Floating Pontoon bridge over Farmers Canal. Outlet from water Amenity in Lexington Hills Subd. appears to be this structure on Right of canal.

Some water in canal at this point but dry immediately upstream (behind viewer).

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MAY 21 1993

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

January 8, 1993

Mr. L. W. Grant, III
Davis Wright Tremaine Law Offices
702 West Idaho Street, Suite 700
Boise, ID. 83702

RE: Permit No. 63-11413 for the City of Eagle

Dear Mr. Grant:

I am writing regarding the above-referenced water right permit formerly known as Lexington Hills or Floating Feather Hills. Several issues came up recently that require the permit owner's attention.

As in any water right permit, conditions of approval are important elements of the right. According to the water right record, conditions 6 and 8 have not been met. For condition no. 6, a feasibility study should be submitted discussing the use of surface water to irrigate any parcels equal to or exceeding one-half acre in the Lexington Hills and Trail Creek projects. Condition no. 8 requires that totalizing flow measurement devices be installed at each well developed under the water right. Totalizing flow measurement data from such wells should be recorded and provided to the department on a regular basis.

Data should be submitted semi-annually on the last day of June and December each year. The first data set is due on 6/30/93. Also, the feasibility study should be submitted by 6/30/93. The information should be sent to the Regional Manager, Mr. David R. Tuthill, Jr., P. E. at the above address.

The last item concerns a complaint received at this office that the wells are used for a water amenity during the non-irrigation season (11/16-3/14). Well water is allegedly used to feed a ditch and pond system in both subdivisions. I visited the site on 12/31/92 and found ground water being used as described for more than two ponds. At the developer's request, on 5/6/92 I provided a brief summary of assumed storage water implied in the water right permit for two ponds in the Lexington Hills Subdivision (see attached copy). I assumed that two ponds totaling about 2 acre-feet (af) were allowable under the current version of the water right. After investigating the recent complaint and discussing the issue with the regional manager, clarification is provided as follows.

Ground water can be used for the ditch and pond amenity during the irrigation season provided that the amenity system is also used as part of the irrigation system for the subdivisions. In this manner, storage water would be a detail of an irrigation system using ground and surface waters. If the amenity is not

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MAY 21 1993

used as part of the irrigation system, ground water could not be diverted to the ditches and ponds under the present water right permit. The permit does not allow the wells to be used to fill the existing number of ponds during the non-irrigation period. Several options are available to provide water right protection for this situation.

Options for Water Amenity

1. Diversion of ground water to the amenity could be halted immediately and would resume only during the irrigation season of 3/15-11/15 when surface water is available. This assumes that the water amenity network also would be used as part of the irrigation system via pumps or another method.

2. A new water right application for permit could be filed. A new right would be desired to protect the water amenity either all year or outside of the irrigation season. However, due to a drought-related moratorium on new consumptive uses of water, such an application could be filed but not approved at this time. Therefore, water right protection could not be obtained under this alternative until the moratorium is modified or lifted.

3. Another ground water right could be modified to provide water right protection for the use in question. Perhaps part or all of another right could be purchased or otherwise obtained for this use. This involves an amendment of a permit or a transfer of another type of right, e.g. licensed right.

4. Permit 63-11413 could be amended. Part of the irrigation water in the right could be changed to recreation or aesthetic use for the amenity. The permit includes 200 acres of irrigation at .01 cfs and an implied 4.5 af diversion volume and 3.5 af consumptive use volume per acre. An expansion must not occur in a water right change. This means that the rate of flow, diverion volume, or consumptive use volume cannot increase in a proposed change. Details about changing a water right are available at this office.

Items 3 and 4 appear to be the best available choices to protect the amenity. The department will not need to exercise additional regulation regarding the wells provided that a proper water right filing is made within twenty (20) days. Please contact me at 334-2190 if you need more information.

Sincerely,

Steve Lester
Water Rights Supervisor

Enclosure: 5/6/92 Response

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MAY 21 1993

ATTACHMENT 1

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190

CECIL D. ANDRUS
GOVERNOR
R. KEITH HIGGINSON
DIRECTOR

5/6/92

Notes by Steven M. Lockwood
Jr. Water Res. Agent

63-11413

Permit for Irrigation 2.00 cfs 3/15 - 11/15
Domestic 1.25 cfs 1/1 - 12/31
Fire Prot. 2.00 cfs 1/1 - 12/31
Total 3.25 cfs

A) At a minimum, the amount of storage assumed with the above uses from 1/1-12/31 is:

$$1.25 \text{ cfs} \times 1.9835 \frac{\text{a.f./day}}{\text{cfs}} = 2.5 \text{ a.f./day}$$

B) Per 2/6/91 Letter from Floating Feather Hills, Inc.:

$$3 \text{ ponds} = 99{,}000 \text{ ft}^3$$

$$= \frac{99{,}000 \text{ ft}^3}{43{,}560 \text{ ft}^3/\text{a.f.}} = 2.3 \text{ a.f.}$$

C) Per 5/1/92 Letter from Lexington Hills:

$$2 \text{ ponds} = 12{,}714 \text{ ft}^3 + 72{,}613 \text{ ft}^3$$

$$= 85{,}327 \text{ ft}^3$$

$$= \frac{85{,}327 \text{ ft}^3}{43{,}560 \text{ ft}^3/\text{a.f.}} = 1.96 = 2.0 \text{ a.f.}$$

MICROFILMED
MAY 21 1993

D) A > B & A > C, storage is part of the flow, no water right change needed.

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

January 8, 1993

Mr. Al Thornton
9601 Prairie Road
Boise, ID. 83703

RE: Complaint Concerning Well Usage in Lexington Hills and
Trail Creek Ranch Subdivisions

Dear Mr. Thornton:

As we discussed on 12/31/92 during my visit to your home in response to your letter of complaint regarding the above-referenced subject, I am sending you a copy of a letter addressed to the water right owner in question. The City of Eagle now owns the wells and water right for the subdivisions.

The water right permit in question, no. 63-11413, does not allow the wells to be used during the winter for the amenity. However, research on ground water in your area strongly indicates that the subdivision wells west of Hwy 55 are not operating in the same aquifer and/or do not affect wells in the Sage Acres subdivsion. Due to this situation, use of wells for a water amenity in the new subdivsions is not required to be immediately halted. Instead, the City of Eagle has a short period in which to obtain water right protection for the amenity. Any new water right filing by the city regarding this subject will be published in Thursday editions of legal notices in the "Idaho Statesman" and are subject to protest.

Details about this scenario are discussed in the enclosed letter. I will be sure that the city complies with the necessary requirments or will initiate additional regulatory steps as needed.

Please contact me if you need more information.

Sincerely,

Steve Lester

Steve Lester
Water Rights Supervisor

MICROFILMED
MAY 21 1993

Enclosure: Copy of 1/8/93 Letter to City of Eagle

MEMORANDUM

To: Steve Lester

From: L. Glen Saxton

RE: CONDITIONS OF APPROVAL - PERMIT 63-11413 - LEXINGTON HILLS

Date: December 18, 1992

Thank you for your recent effort in connection with the above referenced permit to determine compliance with the conditions of approval.

If you have not already put the new permit holder on notice about compliance with condition of approval no. 6, (feasibility study for the irrigation of lots larger than 1/2 acre) please do so with a letter.

Regarding condition of approval no. 8, we should request the submittal of the flow data. Either every 6 mo. or yearly seems to be a reasonable frequency. Please also put this request in your letter.

In general the department should not require permit holders to compile flow data IF the department does not request the submittal of the data and then review it. We have been periodically criticized in this regard, and probably rightfully so.

MICROFILMED

MAY 21 1993

MEMORANDUM

TO: GLEN SAXTON

FROM: STEVE LESTER

DATE: DECEMBER 15, 1992

SUBJECT: CONDITIONS OF APPROVAL FOR PERMIT 63-11413

****

I finally am able to respond to your 8/25/92 memo concerning the conditions of approval for the Floating Feather Hills permit (project became Lexington Hills, permit now assigned to City of Eagle). Conditions 5, 6, 8, and 9 were of particular interest. A response was received from the city attorney's office on 9/28/92 (see attached). The city is aware of the conditions. Here is a brief summary of the status.

Condition #5, Monitoring Well - A monitoring well with an installed continuous recorder is located approximately 1/2 mile west of the subdivision well, which is in SWSWSW, S.3, T4N, R1E. The well joined the USGS inventory network in late 1989 or early 1990. Steve Baker noted that IDWR thought it would be better to keep the monitoring functions and data centralized with USGS rather than as a separate IDWR job. The well is known as the Hormaechea well. USGS staff visit the well monthly to change the chart. A few months worth of data were lost when the pumphouse burned down, but the recorder and pumphouse were replaced in July, 1991. Data is available by contacting Annette Tungate or Mike Jones, USGS 334-1743.

Condition #6, Feasibility Study - The users must prepare and submit a study to IDWR on the feasibility of utilizing available surface water on the land in question. A study is required if parcels exceeding 1/2 acre will be irrigated. The letter from D. Roylance dated 9/22/92 states that part of the project, the eastern area known as Echo Creek Subd. (formerly Trail Creek Ranch), will only include lots smaller than 1/2 acre. This part of the development does not need to comply with condition #6. However, he also states that the other part of the area will include irrigated lots exceeding 1/2 acre. Although he writes that the developers understand that feasibility studies are not needed, he is mistaken. The current water right holder is not in compliance with this condition for those irrigated lots greater than 1/2 acre.

Condition #8, Totalizing Flow Meters - Mr. Roylance indicated that such a meter is installed and operational at the production well in Sec.3. To date, other production wells have not been drilled. To my knowledge, the department has not asked the water right holder to provide periodic meter data. Should we request a quarterly report or an end of year summary?

Condition #9, Individual Meters/Lot - According to Mr. Roylance, individual meters are installed for each domestic water service per lot.

The noted conditions appear to be met except for #6. The question of periodic reports of totalizing meter data remains.

MAY 21 1993

RECEIVED
SEP 28 1992
Department of Water Resources
Western Regional Office

DAVIS WRIGHT TREMAINE
LAW OFFICES
702 WEST IDAHO STREET · SUITE 700 · BOISE, IDAHO 83702
(208) 338-8200

L. W. GRANT, III
(208) 338-8245

September 25, 1992

Steve Lester
Water Rights Supervisor
Idaho Department of Water Resources
Western Region
2735 Airport Way
Boise, ID 83705-5082

Re: Permit No. 63-11413

Dear Steve:

As you know, we are City Attorney for the City of Eagle ("City") and, as such, represent the City concerning matters such as their interests in Water Permit No. 63-11413 ("Permit"). We would like to thank you and the Idaho Department of Water Resources ("IDWR") for the quick response in approving the assignment of the Permit from Lexington Hills, Inc. ("Lexington") to the City.

The City is aware that as owner of the Permit, it has certain responsibilities concerning the Permit. The City also has received certain assurances from Lexington, the previous owner of the Permit, concerning the satisfaction of conditions under the Permit. Based upon the contractual assurances we have received from Lexington, we forwarded to them a copy of your letter of September 11, 1992, requesting a response from them regarding your concerns regarding four conditions of the Permit.

We have enclosed a copy of the response we received from David Roylance, the engineer for Lexington Hills. Please review Mr. Roylance's comments and let us know if you need any additional information.

851674\WATERSYS\00001.LTR
Boise

MICROFILMED
MAY 21 1993

Thank you again for your assistance in granting the approval of the assignment of the Permit.

Sincerely,

DAVIS WRIGHT TREMAINE

L. W. Grant, III /kd

LWG:kd
c: Barbara Montgomery, City Clerk, City of Eagle
Merrily Munther, Penland & Munther

851674\WATERSYS\00001.LTR
Boise

MICROFILMED
MAY 21 1993

Roylance & Associates P.A.
Engineers • Surveyors • Landplanners
4619 Emerald, Suite D-2, Boise, Idaho 83706
Telephone (208) 336-7390 Fax (208) 336-7391

RECEIVED
SEP 28 1992
Department of Water Resource
Western Regional Office

September 22, 1992
Project No. 1162

RECEIVED
SEP 24 1992
DAVIS WRIGHT TREMAINE

L.W. Grant, III
Davis, Wright, Tremaine
702 W. Idaho Street
Boise, ID 83702

RE: CITY OF EAGLE DOMESTIC WATER SYSTEM

Dear Mr. Grant:

Pursuant to your letter to our attorney, Merrily Munther, dated September 14, 1992, I am responding on behalf of Lexington Hills, Inc., to the first three items in the letter of Steven Lester of Department of Water Resources dated September 11, 1992.

1. Condition No. 5: The permit holder has provided a monitoring well determined by the Department of Water Resources to be suitable for monitoring. The well is located on property adjacent to the western boundary of Lexington Hills Subdivision No. 1, approximately one-quarter mile, west and 80-100 feet north of Floating Feather Road. The property is owned by Eagle Meadows, a partnership of which one of the partners is R.M. Hormaechea. Monitoring of the well has been ongoing, on a periodic basis by the Department.

2. Condition No. 6: The developers understand that the feasibility studies were not to be required if surface water was used to irrigate parcels equal to or greater than one-half acre in size during periods when water is being delivered in the Farmers Union Canal. There are no parcels of that size proposed in Echo Creek Subdivision, formerly known as the Trail Creek Ranch Project. After the permit was issued, it was determined to be feasible to deliver surface water for irrigation to all parcels in Lexington Hills, including those of less than one-half acre in size. Surface water will not be used in Echo Creek/Trail Creek Ranch because all lots are smaller than one-half acre. Accordingly, the developers understand that feasibility studies will not be a condition of the permit.

3. Condition No. 8: Totalizing flow measurement devices of a type approved by the Department have been installed and maintained as part of each diverting works. These devices were maintained by the developers while they held the water rights and were made available to inspection by Department personnel during that period for the purpose of long-range study and monitoring of the ground water aquifer.

RECEIVED
MAY 21 1993

4. Condition No. 9: Individual meters are installed on each domestic water service to every lot.

Merrily Munther has asked me also to confirm with you her understanding that the City of Eagle will not be opposed to an application to amend the permit to delete the two points of diversion located on Eagle Meadows property. She had apparently spoken with you ten days ago and wanted us to be sure before we began preparing the application.

Very truly yours,

David H. Roylance, P.E., P.L.S.

cc: Steve Lester
Bill Guhrke
Merrily Munther
Bryce Peterson

MICROFILMED
MAY 21 1993

...TER-DEPARTMENT MEMO — 1

DATE 9/24/92

FROM Cindy

TO Steve

SUBJECT 9/11 Letter to Buzz Grant

Mr Grant called to give an update on permit 63-11413. According to private agreement between City of Eagle & Lexington Hills, Lexington Hills is to fulfill those permit requirements you listed. Mr. Grant has sent a copy of your letter to Lexington Hills & is awaiting their response. He will try and touch base by Monday, 9/28.

...RECEIVED

MAY 21 1993

C.

SIGNATURE

Roylance & Associates P.A.

Engineers • Surveyors • Landplanners

4619 Emerald, Suite D-2, Boise, Idaho 83706

Telephone (208) 336-7390 Fax (208) 336-7391

September 22, 1992
Project No. 1162

RECEIVED
SEP 24 1992
Department of Water Resources
Western Regional Office

L.W. Grant, III
Davis, Wright, Tremaine
702 W. Idaho Street
Boise, ID 83702

RE: CITY OF EAGLE DOMESTIC WATER SYSTEM

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1. Condition No. 5: The permit holder has provided a monitoring well determined by the Department of Water Resources to be suitable for monitoring. The well is located on property adjacent to the western boundary of Lexington Hills Subdivision No. 1, approximately one-quarter mile, west and 80-100 feet north of Floating Feather Road. The property is owned by Eagle Meadows, a partnership of which one of the partners is R.M. Hormaechea. Monitoring of the well has been ongoing, on a periodic basis by the Department.

2. Condition No. 6: The developers understand that the feasibility studies were not to be required if surface water was used to irrigate parcels equal to or greater than one-half acre in size during periods when water is being delivered in the Farmers Union Canal. There are no parcels of that size proposed in Echo Creek Subdivision, formerly known as the Trail Creek Ranch Project. After the permit was issued, it was determined to be feasible to deliver surface water for irrigation to all parcels in Lexington Hills, including those of less than one-half acre in size. Surface water will not be used in Echo Creek/Trail Creek Ranch because all lots are smaller than one-half acre. Accordingly, the developers understand that feasibility studies will not be a condition of the permit.

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MICROFILMED
MAY 21 1993

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Very truly yours,

David H. Roylance, P.E., P.L.S.

cc: [redacted]
Bill Guhrke
Merrily Munther
Bryce Peterson

RECEIVED
MAY 21 1993

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

September 11, 1992

L. W. Grant, III
Davis Wright Tremaine Law Offices
702 West Idaho Street, Suite 700
Boise, ID. 83702

RE: Water Right Permit No. 63-11413

Dear Mr. Grant:

I understand that you are the attorney of record for the City of Eagle regarding Permit No. 63-11413, formerly known as the Lexington Hills, Inc. or Floating Feather Hills, Inc. development. An assignment of the permit was recently executed, and the City of Eagle is the new permit owner.

Enclosed is a copy of the permit. Note the conditions of approval. Permit conditions must be honored to maintain a valid water right. This office is particularly interested in compliance with conditions 5, 6, 8, and 9. Please respond to the following questions.

1. Condition no. 5 - Has the permit holder provided a monitoring well? If so, is it being monitored? By whom and how often?

2. Condition no. 6 - Have the feasibility studies been prepared? If so, the studies should be provided to the department for review and approval.

3. Condition no. 8 - Are totalizing meters installed for the well(s) supplying water to the subdivision?

4. Condition no. 9 - Are meters being installed to each lot?

Monitoring data related to the above points should be included in a response. A reply to this office by September 24, 1992 is requested. Please let me know if additional information is needed.

Sincerely,

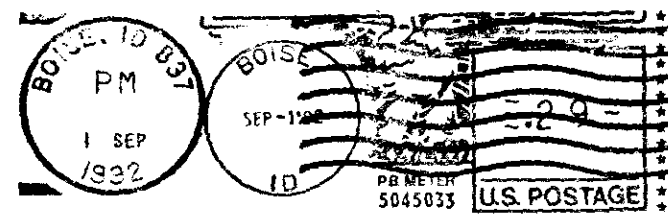
Steve Lester

Steve Lester
Water Rights Supervisor

Enclosure: Permit 63-11413

MICROFILMED
MAY 2 1 1993

DAVIS WRIGHT TREMAINE
LAW OFFICES
KEY FINANCIAL CENTER
702 WEST IDAHO STREET, SUITE 700
BOISE, IDAHO 83702



RECEIVED
MAY 21 1993

Dan Tuthill
Idaho Department of Water Resources
1301 N. Orchard
Boise, ID 83706

RECEIVED
SEP 2 1992
Department of Water Resources

DAVIS WRIGHT TREMAINE
LAW OFFICES
702 WEST IDAHO STREET · SUITE 700 · BOISE, IDAHO 83702
(208) 338-8200

L. W. GRANT, III
(208) 338-8245

September 1, 1992

Glen Saxton
Chief of Water Allocation Bureau
Idaho Department of Water Resources
1301 N. Orchard
Boise, Idaho 83706

Re: Assignment of Water Permit No. 63-11413

Dear Mr. Saxton:

We have enclosed an assignment of Water Permit No. 63-11413 from Lexington Hills, Inc. (formerly Floating Feather Hills, Inc.) and Treasure Valley Village, Ltd. to the City of Eagle. For your records, the mailing address for the City of Eagle should be listed as:

City of Eagle
P.O. Box 477
Eagle, Idaho 83616

Please send a copy of the permit showing the City of Eagle as the new owner to the City of Eagle, in care of the undersigned at your earliest convenience.

Sincerely,

DAVIS WRIGHT TREMAINE

L. W. Grant, III

LWG/kk
Enclosure
cc. Dan Tuthill

MICROFILMED
MAY 21 1993

DAVIS WRIGHT TREMAINE
LAW OFFICES
702 WEST IDAHO STREET · SUITE 700 · BOISE, IDAHO 83702
(208) 338-8200

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SEP - 3 1992
Department of Water Resources
Western Regional Office

L. W. GRANT, III
(208) 338-8245

September 1, 1992

Glen Saxton
Chief of Water Allocation Bureau
Idaho Department of Water Resources
1301 N. Orchard
Boise, Idaho 83706

Re: Assignment of Water Permit No. 63-11413

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City of Eagle
P.O. Box 477
Eagle, Idaho 83616

Please send a copy of the permit showing the City of Eagle as the new owner to the City of Eagle, in care of the undersigned at your earliest convenience.

Sincerely,

DAVIS WRIGHT TREMAINE

L. W. Grant, III

LWG/kk
Enclosure
cc. Dan Tuthill

MICROFILMED
MAY 21 1993

RECEIVED
SEP - 3 1992
Department of Water Resources
Western Regional Office

ASSIGNMENT OF WATER PERMIT NO. 63-11413

LEXINGTON HILLS, INC., an Idaho corporation, and TREASURE VALLEY VILLAGE, a California limited partnership, the "Assignors", hereby assign, transfer and set over unto the CITY OF EAGLE, a municipal corporation, the "Assignee", all of their right, title and interest in and to that certain permit to appropriate groundwater, Permit No. 63-11413, issued by the Idaho Department of Water Resources, subject to the terms and conditions of the Agreement for Transfer and Operation of Domestic Water System dated May 20, 1992, between Assignors and Assignee.

Dated: July 24, 1992

LEXINGTON HILLS, INC. (formerly known as FLOATING FEATHER HILLS, INC.)

Bryce L. Peterson, President

Attest:

(SEAL)

Duane H. Smeckle, Secretary

Dated: _____, 1992

TREASURE VALLEY VILLAGE

William R. Guhrke, Partner

Martin S. Greene, Partner

Lawrence L. Greene, Partner

\851674\waterrys\assign
July 15, 1992

RECORDED
MAY 21 1993

STATE OF IDAHO)
: ss.
County of Ada)

On this 24th day of July, 1992, before me, the undersigned, a Notary Public in and for said State, personally appeared Bryce Peterson and Duane H. Stueckle, known or identified to me to be the President and Secretary, respectively, of the corporation, who executed the instrument on behalf of said corporation, and acknowledged to me that such corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and seal the day and year in this certificate first above written.

Sonya Mackey
Notary Public for Idaho
Residing at: Boise, Id
My Commission expires: 6/20/94

STATE OF Idaho)
: ss.
County of Ada)

On this 21st day of July, 1992, before me, the undersigned, a Notary Public in and for said State, personally appeared William R. Guhrke, known or identified to me to be a Partner of the Treasure Valley Village, a California limited partnership, who executed the instrument on behalf of said limited partnership, and acknowledged to me that such limited partnership executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and seal the day and year in this certificate first above written.

CHRISTINE L. CROSSLAND
NOTARY PUBLIC
STATE OF IDAHO

Christine L Crossland
Notary Public for Idaho
Residing at: Boise
My Commission expires: 2/9/93

STATE OF California)
: ss.
County of Los Angeles)

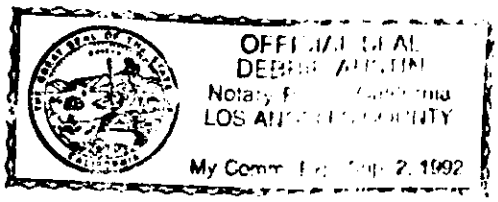
On this 16th day of July, 1992, before me, the undersigned, a Notary Public in and for said State, personally appeared Martin S. Greene, known or identified to me to

\851674\watersys\assign
July 15, 1992

MAY 21 1993

be a Partner of the Treasure Valley Village, a California limited partnership, who executed the instrument on behalf of said limited partnership, and acknowledged to me that such limited partnership executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and seal the day and year in this certificate first above written.

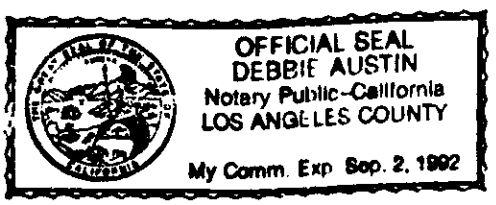


Debbie Austin
Notary Public for California
Residing at: Encino
My Commission expires: Sep. 2, 1992

STATE OF California)
: ss.
County of Los Angeles)

On this 16th day of April, 1992, before me, the undersigned, a Notary Public in and for said State, personally appeared Lawrence E. Greene, known or identified to me to be a Partner of the Treasure Valley Village, a California limited partnership, who executed the instrument on behalf of said limited partnership, and acknowledged to me that such limited partnership executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and seal the day and year in this certificate first above written.



Debbie Austin
Notary Public for California
Residing at: Encino
My Commission expires: Sep 2, 1992

\851674\watersys\assign
July 15, 1992

MICROFILMED
MAY 21 1993

MEMORANDUM

To: Dave Tuthill

From: L. Glen Saxton

RE: TELEPHONE CALL FROM BILL PARDEW - PERMIT NO. 63-11413

Date: August 25, 1992

Bill Pardew (939-0536) called me in connection with Permit No. 63-11413 which the department issued to Floating Feather Hills, Inc. and Treasure Valley Village on September 11, 1991.

Pardew's concern was that he had heard that the wells authorized for use under the permit have been conveyed to the city of Eagle (Eagle). Pardew also heard that the plans of Eagle might not be in compliance with terms of the permit. More specifically, the concern was that condition of approval no. 6 might be disregarded by Eagle if the water system and/or permit has been conveyed to Eagle.

Please check into this matter with the permit holders to determine whether there has been an ownership change of the permit. In addition, I am curious about compliance with the other conditions of approval described below:

1. Condition no. 5. - Has the permit holder provided a monitoring well? If so, is it being monitored? By whom and how often?

2. Condition no. 6. - Have the feasibility studies been prepared and provided to the department for review and approval?

3. Condition no. 8. - Have the totalizing meters been installed? Has the department advised the permit holder of the frequency to submit flow measurements?

4. Condition no. 9. - Are meters being installed to each lot?

If permit no 63-11413 has been or will be conveyed to Eagle, they need to know early on of the conditions of approval which have to be met in order to maintain a valid permit.

Please advise me in this matter.

MAY 21 1993

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

August 19, 1992

Honorable Steve Guerber, Mayor
City of Eagle City Hall
PO Box 477
Eagle, ID. 83616

RE: Water Right No. 63-11413 (Lexington Hills Well)

Dear Mr. Mayor:

According to recent information in the local media, the City of Eagle is considering the use of the well known as the Lexington Hills Well for municipal use. This well is protected by water right permit no. 63-11413 (copy attached).

Please be advised that the well can only be used within the limits of valid water rights issued by this agency. Currently, permit 63-11413 is the only water right associated with the well. If the city wants to use the well for municipal or other uses, a new water right must be obtained by filing an application for permit.

As you undoubtably know, the area in question is highly controversial with respect to water rights and wells. The city should allow adequate time for an application to be processed given that such an application most likely will be protested by concerned citizens.

Please contact this office if additional information is needed.

Sincerely,

Steve Lester

Steve Lester
Water Rights Supervisor

Enclosure: 63-11413

MICROFILMED
MAY 2 1 1993

LEXINGTON HILLS
EAGLE
2417 Bank Drive, Suite 101 ◆ Boise, Idaho 83705 ◆ 208 939-6000

May 1, 1992

Water Resources Board
2735 Airport Way
Boise, ID 83705

Attn: Steve Lester

RE: Lexington Hills, Inc.
Water Permit #63-11413

Dear Steve:

The ponds located in Lexington Hills Subdivision were previously submitted as being the following sizes:

Pond #1 = 15,000 c.f.
Pond #2 = 42,000 c.f.

After construction we find the ponds are:

Pond #1 = 12,714 c.f.
Pond #2 = 72,613 c.f.

If our application is sufficient to cover the storage required for these ponds, please indicate by signing a copy of this letter.

If you have any questions or need more information, please do not hesitate to call.

Sincerely,

LEXINGTON HILLS, INC.

Bryce L. Peterson
President

MICROFILMED
MAY 21 1993

Approved by:

DEPARTMENT OF WATER RESOURCES

By: Steve Lester
Title: Sr. Water Resource Agent — PER ATTACHMENT #1

ATTACHMENT #1

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190

CECIL D. ANDRUS
GOVERNOR
R. KEITH HIGGINSON
DIRECTOR

5/6/92

Notes by Steven M. Lester
Sr. Water Res. Agent

63-11413

Permit for Irrigation 2.00 cfs 3/15 - 11/15
Domestic 1.25 cfs 1/1 - 12/31
Fire Prot. 2.00 cfs 1/1 - 12/31
Total 3.25 cfs

A) At a minimum, the amount of storage assumed with the above uses from 1/1-12/31 is:

$$1.25 \text{ cfs} \times 1.9835 \frac{\text{a.f./day}}{\text{cfs}} = 2.5 \text{ a.f./day}$$

B) Per 2/6/91 Letter from Flunting Feather Hills, Inc.:

$$3 \text{ ponds} = 99{,}000 \text{ ft}^3$$

$$= \frac{99{,}000 \text{ ft}^3}{43{,}560 \text{ ft}^3/\text{a.f.}} = 2.3 \text{ a.f.}$$

C) Per 5/1/92 Letter from Lexington Hills:

$$2 \text{ ponds} = 12{,}714 \text{ ft}^3 + 72{,}613 \text{ ft}^3$$

$$= 85{,}327 \text{ ft}^3$$

$$= \frac{85{,}327 \text{ ft}^3}{43{,}560 \text{ ft}^3/\text{a.f.}} = 1.96 = 2.0 \text{ a.f.}$$

MICROFILMED
MAY 21 1993

D) A > B & A > C, storage is part of live flow, [illegible] water right [illegible] needed

WR File # 63-11413
O.P. 63-92-W-170

Sherl L. Chapman

Consultant
410 S. Orchard / Suite 144 / Boise, Idaho 83705 / Phone 344-6690

RECEIVED
MAR2 5 1992
DIVISION OF
ENVIRONMENTAL QUALITY
SWIRO

WORK ORDER
LEXINGTON HILLS WELL NO. 2
March 24, 1992

This work order is intended to provide a narrative description of the well to be constructed at the #2 site for the Lexington Hills Subdivision near Beacon Light and Edgewood Roads, more specifically in the NW/4, SW/4, Section 3, T4N, R1E. It is anticipated the well will be drilled to approximately 300 feet in depth using reverse rotary drilling equipment. The firm of Pete Cope Well Drilling will be retained to construct the well and the supervising consultant will be Sherl L. Chapman, Boise, Idaho.

It is anticipated the well bore will be 24 inches in diameter from top to bottom and 16 inch steel well casing will extend from the surface to the bottom of the hole with the exception of the well screen assembly which will be placed in the water bearing zones as determined during the drilling process. Screens to be installed in the well will be 16 inches in diameter, constructed of 304 stainless steel, furnished by Roscoe Moss Company.

The well will be drilled open hole from top to bottom and the water bearing formations determined in order to determine the exact placement of the well screen. Upon completion of drilling and sample analyzation, the well screens and permanent casing will be installed in one unit. A select gravel pack will be placed from the bottom of the permanent steel casing to at least 30 feet above the uppermost well screen. The gravel pack will be installed using a tremie pipe which will allow uniform, accurate placement of the gravel pack around the well screens and casing. The tremie pipe will be left in the well bore, extend 12 inches above land surface and be equipped with a water tight cap which will preclude surface contamination and allow for addition of gravel pack should it become necessary. The annular space from the top of the gravel pack to the bottom of the seal shall be filled with a clean filler gravel to preclude collapse of the hole wall.

The well seal shall consist of a five foot thick plug of bentonitic clay with cement grout being installed in the annular space between the formation wall and the well casing from the top of the bentonite plug to land surface. The bentonite plug and cement grout seal shall extend from approximately 100 feet below land surface to the surface or to the first significant confining layer, whichever is greater. This determination shall be made by the consultant upon completion of the drilling process.

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MAY 2 1 1993

The well shall be equipped with a measurement port and all construction shall be in compliance with the Idaho Minimum Well Construction Standards or these specifications, whichever are more restrictive. Upon completion of the construction of the well, no pump testing or other work on the well shall be conducted within 48 hours of the placement of the seal. Upon the expiration of this time restriction, the well will be pump tested to determine the maximum safe sustained yield.

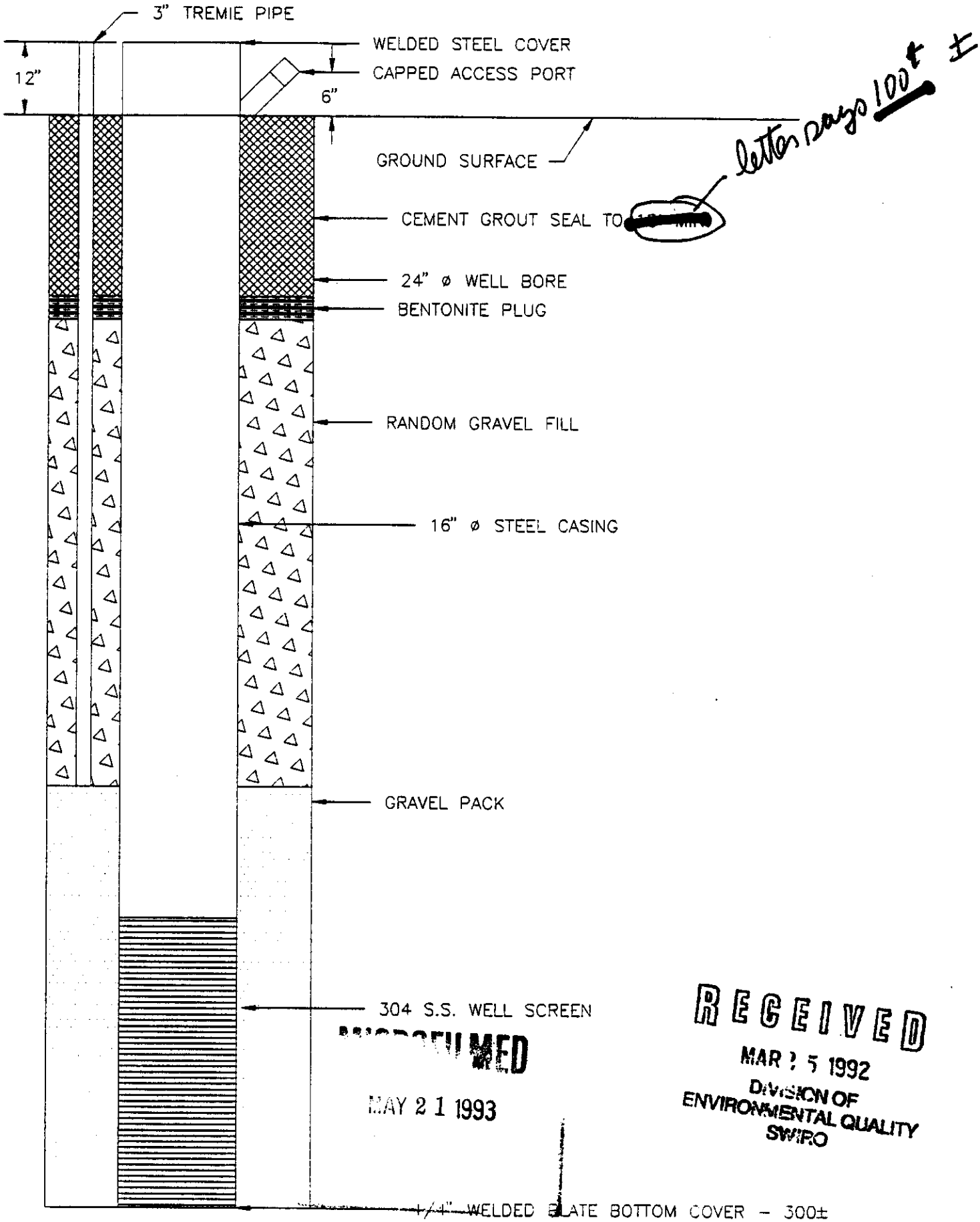
Questions regarding these specifications should be addressed to Sherl L. Chapman, 410 S. Orchard, Suite 144, Boise, Idaho 83705, telephone 344-6690.

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MAY 2 1 1993

LEXINGTON HILLS NO. 2 WELL CONSTRUCTION DETAILS

SHERL L. CHAPMAN CONSULTING
3/13/92



RECEIVED
MAR 25 1992
DIVISION OF
ENVIRONMENTAL QUALITY
SWIRO

MICROFILMED
MAY 21 1993

IDAHO DEPARTMENT
OF HEALTH AND WELFARE

DIVISION OF
ENVIRONMENTAL QUALITY

RECEIVED
APR 1 1992
Department of Water Resources

1420 North Hilton, Boise, Idaho 83706-1260, (208) 334-0550

Cecil D. Andrus, Governor Richard P. Donovan, Director

March 31, 1992

LEXWELL2

Mark Slifka
IDWR - STATEHOUSE MAIL

RE: Lexington Hills Well #2
Informal Specifications From Sherl Chapman

Dear Mark:

The "specifications" are attached. I am sure this will be better work than we often get, but I would still appreciate your comments. My "comments" are the circled items on the attached checklist.

As a lower priority, if you wish to comment on the checklist, I have attached a complete one. I will be revising all my checklists soon anyway.

Thanks,

Monty G. Marchus, P.E.
Water Quality Engineer

Attachments

RECEIVED
MAY 2 1 1993

Printed on Recycled Paper

Sherl L. Chapman

Consultant
410 S. Orchard / Suite 144 / Boise, Idaho 83705 / Phone 344-6690

March 24, 1992

Mr. Monte Marchus
Department of Health & Welfare
Division of Environmental Ouality
1410 N. Hilton
Boise, Idaho 83706-1260

Dear Monte:

Enclosed you will find an engineering diagram and narrative set of specifications for the Lexington Hills #2 well. While this is not a formal set of specifications in the true sense, these are the documents provided the well drilling contractor for construction of this well since I intend to work very closely with the driller during this construction. I've used this contractor for many years and have confidence in their ability to construct the well in the manner described without formal specifications as one might normally see in a public works project.

If you have any questions or need additional information, I would be most happy to meet with you or provide you the information you need.

Sincerely yours,

Sherl Chapman

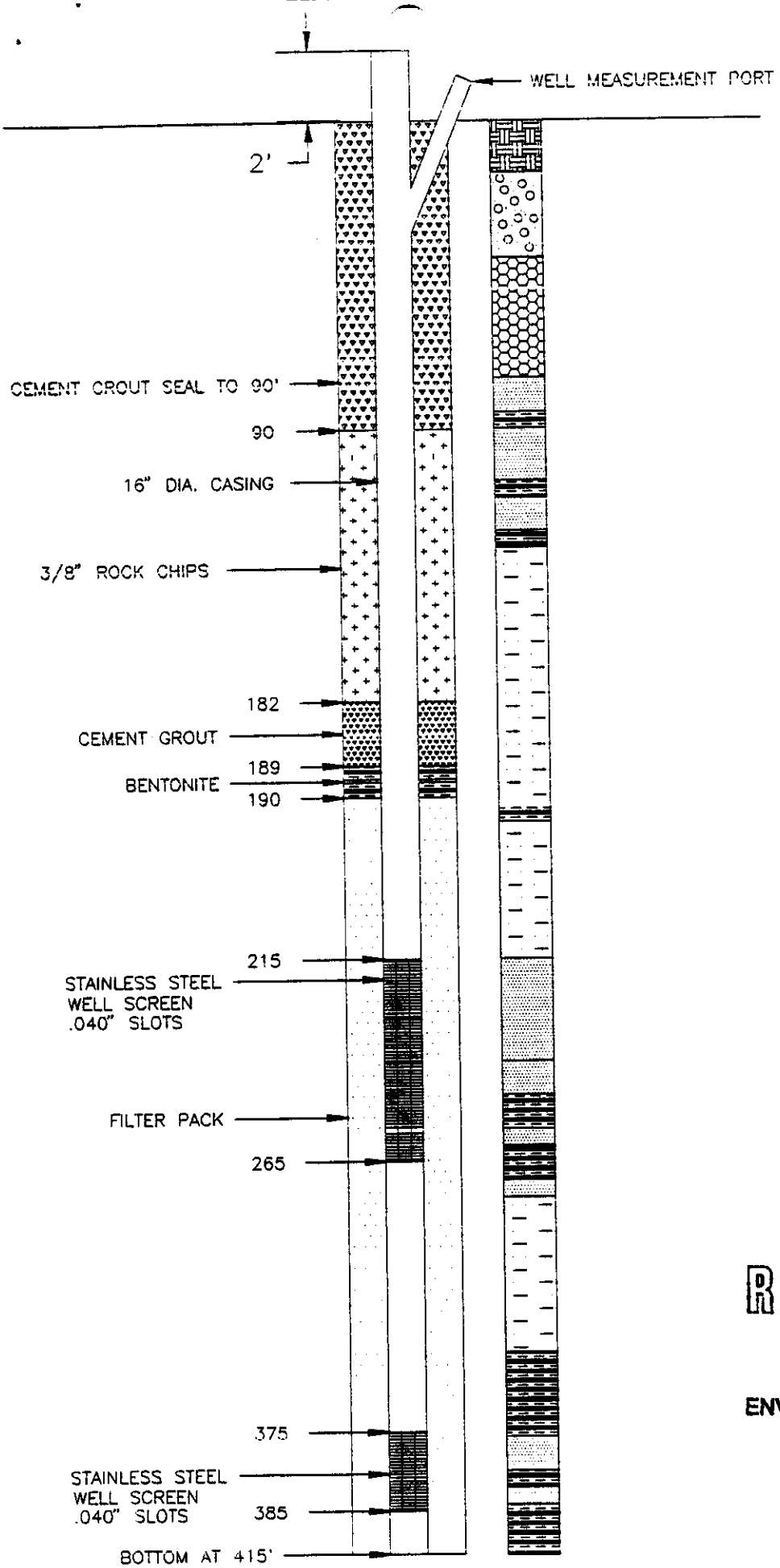
Sherl L. Chapman
Consultant

SLC:kje
enclosures
cc:Mr. Bryce Peterson

RECEIVED
MAR2 5 1992
DIVISION OF
ENVIRONMENTAL QUALITY
SWIRO

MAY 2 1 1993

LEXINGTON HILLS NO. 1 WELL CONSTRUCTION DETAILS



RECEIVED
MAR2 5 1992
DIVISION OF
ENVIRONMENTAL QUALITY
SWIRO
MAY 2 1 1993

BEFORE THE DEPARTMENT OF WATER RESOURCES

OF THE STATE OF IDAHO

IN THE MATTER OF PERMIT NO. 63-11413 IN THE NAME OF CITY OF EAGLE	))))	**REINSTATEMENT ORDER**

WHEREAS, the Department issued the above-captioned permit with the condition that proof of construction of works and application of water to beneficial use (proof of beneficial use) be submitted to the Department on or before September 1, 2000; and,

WHEREAS, the Department notified the permit holder on June 30, 2000, by certified mail that proof of beneficial use was due and instructed the permit holder of the steps to be taken to submit the proof of beneficial use or an extension of time request; and,

WHEREAS, on September 18, 2000, the permit lapsed since the Department had not received an acceptable proof of beneficial use statement or extension of time from the permit holder; and

WHEREAS, on September 19, 2000, the proof of beneficial use was received by the State office of the Department of Water Resources. The proof showed a regional date stamp and proof of fees receipted on August 29, 2000.

WHEREAS, Section 42-218a, Idaho Code, provides that the Department may reinstate a permit upon a showing of reasonable cause by the permit holder within sixty days of the date of the notice of lapsing; and,

WHEREAS, the permit holder provided the appropriate proof of beneficial use to the Department on August 29, 2000;

IT IS, THEREFORE, HEREBY ORDERED that Permit No. 63-11413 is **REINSTATED** with no advance in priority.

DATED this 21st day of September, 2000.

L. GLEN SAXTON, Chief
Water Allocation Bureau

MICROFILMED

OCT 11 2000

RECEIVED
SEP 19 2000
Department of Water Resources

RECEIVED
AUG 29 2000
WATER RESOURCES
WESTERN REGION

Form No. 217
7/94

FOR OFFICE USE ONLY
Amt of Fee $: 175.00
Receipt No. W02691 2
Receipt By: LM
Date Receipted: 8-29-00

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

PROOF OF BENEFICIAL USE

The Idaho Department of Water Resources considers this form a statement that the permit holder(s) has/have completed all development that will occur under this permit and that water has been applied according to the provisions of the permit for the beneficial use(s) described below. This form must be accompanied by a license examination fee, when necessary, or be accompanied by a completed field examination report prepared by a certified water right examiner who has been appointed by the department.

1. Permit No. 63-11413 Telephone No. 208-939-6813
2. Name(s) of Permit Holder(s): City of Eagle
3. Mailing Address: City Hall, 310 East State Street, Eagle, ID 83616
4. Source of Water: groundwater If GROUNDWATER (well), Date Drilled: mo. 3 / yr. 1991
   a. Well Driller: Pete Cope Drilling Permit Number: 63 - 91 - W - 044 et al.
   b. **OPTIONAL -**
   Pump Horsepower:_____ Pressure (psi):_____ Dynamic pumping level (ft):_____
5. Use(s) (as authorized by the water right permit):
   Domestic (No. Of households):_____ Stockwater (No. And type of stock): _____
   Irrigation (No. Of acres):_____ Other: Municipal
6. Total rate of diversion and/or volume for which proof is submitted: 3.15 cfs OR 540 acre feet
7. Measuring Device Requirement: (refer to the approval conditions on your permit and respond accordingly)
   (This question is not optional. Please check either yes or no. Proofs returned not checked accordingly, will be considered incomplete)
   Measuring Device: Is a measuring device required? Yes X or No _____
   Has the Measuring device been installed? Yes X or No _____
   Flow Measurement Port: Is a flow measurement port required? Yes_____ or No X
   Has the measurement port been installed? Yes_____ or No X
8. Fee Enclosed: $ 175.00 (See Fee Schedule on back of the instructions for filing proof of beneficial use)
9. Person to contact to accompany the Department representative during field examination of the water system.
   Name: Vern Brewer, Holladay Engineering Co. Telephone Number: 208-642-3304
   Address: 32 North Main, Payette, ID 83661
10. The information given on this form is my true statement of the extent to which the above numbered permit has been developed and I relinquish any undeveloped portion of the permit to the State of Idaho.

Signature of permit holder: _____ Date: August 29, 2000
(Include your title, if on behalf of company or organization)
Vern Brewer, City Engineer

MICROFILMED
OCT 11 2000

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

AMENDED

AMENDMENT OF PERMIT

AMENDED

PERMIT NO. 63-11413

This is to certify, that CITY OF EAGLE
PO BOX 477
EAGLE ID 83616-0477
has requested a change to the above captioned water right(s). This change in water right(s) is authorized pursuant to the provisions of Section 42-211, Idaho Code. The approved amendment of permit is described as follows:

SOURCE

GROUNDWATER

Priority: April 2, 1991

BENEFICIAL USE	PERIOD OF USE	RATE OF DIVERSION	ANNUAL VOLUME
MUNICIPAL	01/01 to 12/31	3.15 CFS	540.0 AF

LOCATION OF POINT(S) OF DIVERSION:

NWSW , Sec. 3, Township 04N, Range 01E
SWSW , Sec. 3, Township 04N, Range 01E
SWSW , Sec. 4, Township 04N, Range 01E
NESE , Sec. 4, Township 04N, Range 01E
ADA County

PLACE OF USE: See Remarks

CONDITIONS OF APPROVAL AND REMARKS

1. Proof of construction of works and application of water to beneficial use shall be submitted on or before **September 1, 2000.**
2. Subject to all prior water rights.
3. The issuance of this right does not grant any right-of-way or easement across the land of another.
4. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code.
5. After specific notification by the department, the right holder shall install a suitable measuring device or shall enter into an agreement with the department to determine the amount of water diverted from power records and shall annually report the information to the department.
6. The right holder is responsible on an on-going basis to provide a well suitable for monitoring as determined by the Department.
7. The right holder is responsible to insure that pumpage under this water right does not directly cause the water level to significantly decline in any domestic well drilled and in use prior to March 29, 1978, or to cause the water level in any other well having a prior right to exceed a reasonable pumping level, unless the right holder provides reasonable compensation or mitigation to the prior water right holder for the reduced water levels as determined by the Director.

MICROFILMED
NOV 12 1999

AMENDED AMENDED

PERMIT NO. 63-11413

CONDITIONS OF APPROVAL AND REMARKS

8. Farmers Union Canal Company water shall be utilized for the irrigation of the lots in Lexington Hills and Trail Creek Ranch parcels equal to or greater than one-half acre in size during periods when water is being delivered in the canal. This water right may be used for irrigation purposes only if the entire amount of water from the Farmers Union Canal Co. remains with the lands in Lexington Hills and Trail Creek Ranch. Sale or transfer of surface water from any portion of these properties will be cause for the Department to further limit the use of this right.
9. The right holder shall permanently maintain totalizing flow measurement devices of a type approved by the Department at each well. The water right holder shall provide flow measurements to the Department on a frequency determined by the Department.
10. Each lot which receives water under this right shall be metered.
11. Rights 63-11413, 63-12017, and 63-12448 when combined shall not exceed a total diversion rate of 3.25 cfs.
12. Rights 63-12017 and 63-12448 also diverted through the point(s) of diversion described above.
13. Points of diversion were formerly known as Hormaechea Wells 1 and 2 and Lexington Wells 1 and 2. They are currently known as City of Eagle Wells 1-4.
14. Place of use is located within the city limits of Eagle and the surrounding service area.

Witness my hand this 18th day of October, 1999

Chief, Water Allocation Bureau

MICROFILMED
NOV 12 1999

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

AMENDMENT OF PERMIT

PERMIT NO. 63-11413

This is to certify, that CITY OF EAGLE
PO BOX 477
EAGLE ID 83616-0477
has requested a change to the above captioned water right(s). This change in water right(s) is authorized pursuant to the provisions of Section 42-211, Idaho Code. The approved amendment of permit is described as follows:

SOURCE

GROUNDWATER

Priority: April 2, 1991

BENEFICIAL USE	PERIOD OF USE	RATE OF DIVERSION	ANNUAL VOLUME
MUNICIPAL	01/01 to 12/31	3.25 CFS	540.0 AF

LOCATION OF POINT(S) OF DIVERSION:

NWSW , Sec. 3, Township 04N, Range 01E
SWSW , Sec. 3, Township 04N, Range 01E
SWSW , Sec. 4, Township 04N, Range 01E
NESE , Sec. 4, Township 04N, Range 01E
ADA County

PLACE OF USE: See Remarks

CONDITIONS OF APPROVAL AND REMARKS

1. The issuance of this right does not grant any right-of-way or easement across the land of another.
2. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code.
3. After specific notification by the department, the right holder shall install a suitable measuring device or shall enter into an agreement with the department to determine the amount of water diverted from power records and shall annually report the information to the department.
4. The right holder is responsible on an on-going basis to provide a well suitable for monitoring as determined by the Department.
5. The right holder is responsible to insure that pumpage under this water right does not directly cause the water level to significantly decline in any domestic well drilled and in use prior to March 29, 1978, or to cause the water level in any other well having a prior right to exceed a reasonable pumping level, unless the right holder provides reasonable compensation or mitigation to the prior water right holder for the reduced water levels as determined by the Director.

SUPERSEDED

MICROFILMED
JAN 04 1999

PERMIT NO. 63-11413

CONDITIONS OF APPROVAL AND REMARKS

6. Farmers Union Canal Company water shall be utilized for the irrigation of the lots in Lexington Hills and Trail Creek Ranch parcels equal to or greater than one-half acre in size during periods when water is being delivered in the canal. This water right may be used for irrigation purposes only if the entire amount of water from the Farmers Union Canal Co. remains with the lands in Lexington Hills and Trail Creek Ranch. Sale or transfer of surface water from any portion of these properties will be cause for the Department to further limit the use of this right.
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10. Rights 63-12017 and 63-12448 also diverted through the point(s) of diversion described above.
11. Points of diversion were formerly known as Hormaechea Wells 1 and 2 and Lexington Wells 1 and 2. They are currently known as City of Eagle Wells 1-4.
12. Place of us is located within the city limits of Eagle and the surrounding service area.

Witness my hand this 20th day of November, 1998

J. Glen Saxton

Chief, Water Allocation Bureau

SUPERSEDED

MICROFILMED
JAN 04 1999

(GPH Version)
Form 211
10/93

RECEIVED
FEB 05 1998
WATER RESOURCES
WESTERN REGION

Receipt No. W023428 ($50)
Accepted by SK
Date 2-5-98

RECEIVED
OCT 23 1998
Department of Water Resources

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR AMENDMENT OF A PERMIT

Applicant *The City of Eagle*[1] Phone *208-939-6813*

Address *310 E. State Street, Eagle, ID 83616*

I am the owner and holder of Permit to Appropriate the Public Waters of the State of Idaho No. *63-11413*, and request that the permit and permit map be amended and/or changed as follows:

Purpose of Amendment:

- ☐ Change point of diversion
- ☒ Change nature of use[2]
- ☐ Add diversion point(s)
- ☐ Change period of use
- ☒ Change place of use
- ☐ Other

1. Point(s) of Diversion:

Lot	¼	¼	¼	Sec.	Twp.	Rge.	County	Local name for diversion
		NE	*SE*	*§4*	*T4N*	*R1E*	*Ada*	*Hormaechea Well #1*
	SW	*SW*	*SW*	*§3*	*T4N*	*R1E*	*Ada*	*Lexington Well #1*
		NW	*SW*	*§3*	*T4N*	*R1E*	*Ada*	*Lexington Well #2*
		SW	*SW*	*§4*	*T4N*	*R1E*	*Ada*	*Hormaechea Well #2*

2. Period and nature of use: (irrigation, domestic, stockwatering, industrial, etc.)

amount ~~2.25 cfs~~[3] 3.15 * for *municipal (per Idaho Code § 21-202B(4))* purposes from *01* to *12/31*
(cfs/acre feet per annum) (water use) (begin month) (end month)

3. Place of use or land to be irrigated:

Twp.	Rge.	Sec.	NE¼				NW¼				SW¼				SE¼				Totals
			NE¼	NW¼	SE¼	SW¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
					See the City of Eagle's most recent Description of Municipal Service Area, filed separately with the Department.														

Total acres *not applicable*

4. a. Who owns the property at the point of diversion? *The City of Eagle*

b. Who owns the land to be irrigated at the place of use? *Not applicable to a municipal water right.*

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing: *Not applicable to a municipal water right.*

MICROFILMED
JAN 04 1999

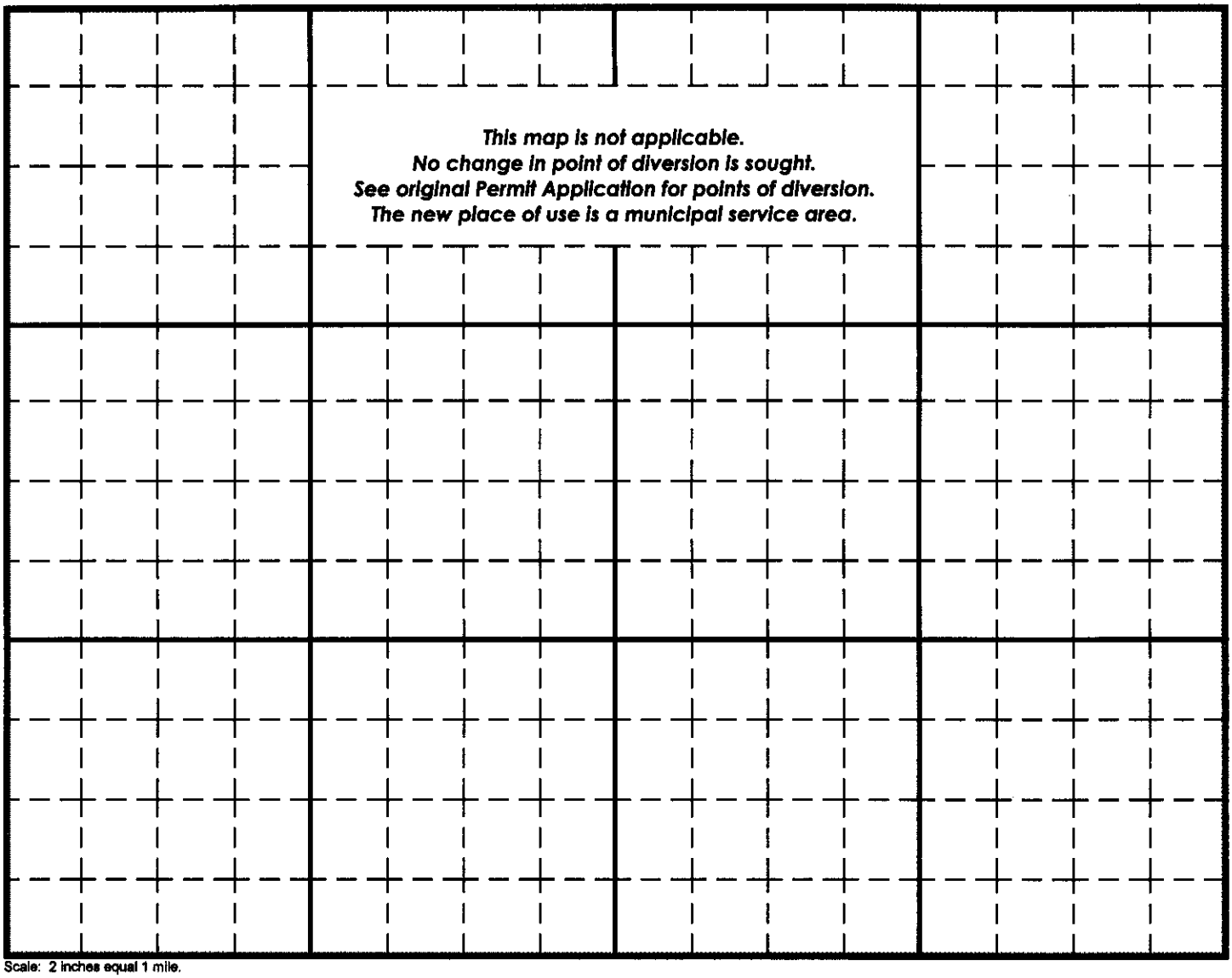
[1] *For city officials, see City of Eagle's most recent Description of Municipal Service Area, filed separately with the Department.*

[2] *The Applicant seeks to bring this water right under the Municipal Water Right Act of 1996, Idaho Code §§ 42-202, 42-202B, 42-217, 42-219, 42-222. However, the Applicant intends to use the water solely to meet current needs and does not assert any claim for a "future need" component to the right under the Municipal Water Right Act of 1996.*

[3] *The water quantity remains subject to any and all volumetric diversion limitations reflected in the permit as originally issued to Treasure Valley Village and Floating Feather Hills, Inc. on September 11, 1991.*

* from permit Record -SK 2/19/98

Complete the following map by showing land and point of diversion as proposed by this amendment. Show 1/4 1/4, section, township, ra[illegible]and ditches. (The smallest subdivision repre[illegible]40 acres.)



Scale: 2 inches equal 1 mile.

I hereby request approval of this change subject to the fact that no one will be injured by the change, and that the change will be made at my own risk.

Signed this 5th day of February, 1998.

Christopher H. Meyer
Givens Pursley & Huntley LLP
277 N. 6th Street, Ste. 200
P.O. Box 2720
Boise, ID 83701-2720
(208) 388-1200
Attorney for Applicant

ACTION OF THE DEPARTMENT OF WATER RESOURCES

Preliminary check by [illegible] Publication prepared by [illegible] Date 3-25-98
Published in Idaho Statesman Pub. dates 3-5 & 12-98
I, _____, of the Department of Water Resources hereby

Witness my hand this _____ day of _____ 19____.

MICROFILMED
JAN 04 1999

$50 Fee Receipted by
Date 9-20-95
Receipt No. C033586

RECEIVED
SEP 20 1995
Department of Water Resources

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

REQUEST FOR EXTENSION OF TIME

TO PROVIDE ADDITIONAL TIME IN WHICH TO SUBMIT PROOF OF BENEFICIAL USE FOR A WATER RIGHT PERMIT

The Idaho Department of Water Resources will consider this form as a request that the permit holder(s) be granted an additional period of time under the provisions of Section 42-204, Idaho Code in which to complete development of a water right.

Permit No. 63-11413

Name(s) of Permit Holder: City of Eagle

Mailing Address: P.O. Box 477, Eagle, ID 83616-0477

Date Proof is Due: 9-1-95 Telephone No. 939-6813

Describe what work has been completed toward the development of this water right:
(This must be filled out! If no work has been completed, show "none".)

Two wells have been drilled, developed and equipped. A pipe line network has been constructed and approximately 400 lots developed. Capacity developed to date is 2.4 cfs of total 3.25 approved.

Costing $ 500,000

The permit holder(s) has been unable to complete the remainder of the work for the following reasons:

The completed development is planned over 10 - 15 years for total build-out. Economic conditions and government approvals dictate the rate at which lots can be completed and sold. This has a direct affect on water demand.

Permit holder(s) request an extension to 9-1, 19 2000.

FEE: $50.00

Steve Guerber
(Signature)* Mayor Steve Guerber
*If other than permit holder, Power of Attorney must be supplied.

ACTION OF THE DEPARTMENT OF WATER RESOURCES

IT IS HEREBY ORDERED that the above request for extension of time be APPROVED and the time within which to submit proof of beneficial use is extended to **September 1, 2000.**
IT IS FURTHER ORDERED that the permit be REINSTATED and the priority date is advanced to **April 2, 1991.**

Signed this 17th day of October, 1995.

L. Glenn Saxton
Chief, Water Allocation Bureau

NOV 08 1995

RECEIVED
SEP 2 1992
Department of Water Resources

ASSIGNMENT OF WATER PERMIT NO. 63-11413

LEXINGTON HILLS, INC., an Idaho corporation, and TREASURE VALLEY VILLAGE, a California limited partnership, the "Assignors", hereby assign, transfer and set over unto the CITY OF EAGLE, a municipal corporation, the "Assignee", all of their right, title and interest in and to that certain permit to appropriate groundwater, Permit No. 63-11413, issued by the Idaho Department of Water Resources, subject to the terms and conditions of the Agreement for Transfer and Operation of Domestic Water System dated May 20, 1992, between Assignors and Assignee.

Dated: July 24, 1992

LEXINGTON HILLS, INC. (formerly known as FLOATING FEATHER HILLS, INC.)

Bryce L. Peterson, President

Attest:

(SEAL)

Duane H. Stueckle, Secretary

Dated: _____, 1992

TREASURE VALLEY VILLAGE

William R. Guhrke, Partner

Martin S. Greene, Partner

Lawrence S. Greene, Partner

MICROFILMED
MAY 2 1 1993

\851674\watersys\assign
July 15, 1992

database updated 5/13/93 CJ

STATE OF IDAHO)
: ss.
County of Ada)

On this 24th day of July, 1992, before me, the undersigned, a Notary Public in and for said State, personally appeared Bryce Peterson and Duane H. Stueckle, known or identified to me to be the President and Secretary, respectively, of the corporation, who executed the instrument on behalf of said corporation, and acknowledged to me that such corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and seal the day and year in this certificate first above written.

Sonja Mackey
Notary Public for Idaho
Residing at: Boise, Id
My Commission expires: 6/20/94

STATE OF Idaho)
: ss.
County of Ada)

On this 21st day of July, 1992, before me, the undersigned, a Notary Public in and for said State, personally appeared William R. Guhrke, known or identified to me to be a Partner of the Treasure Valley Village, a California limited partnership, who executed the instrument on behalf of said limited partnership, and acknowledged to me that such limited partnership executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and seal the day and year in this certificate first above written.

KRISTINE L. CROSSLAND NOTARY PUBLIC STATE OF IDAHO

Kristine L Crossland
Notary Public for Idaho
Residing at: Boise
My Commission expires: 2/9/93

STATE OF California)
: ss.
County of Los Angeles)

On this 16th day of July, 1992, before me, the undersigned, a Notary Public in and for said State, personally appeared Martin S. Greene, known or identified to me to

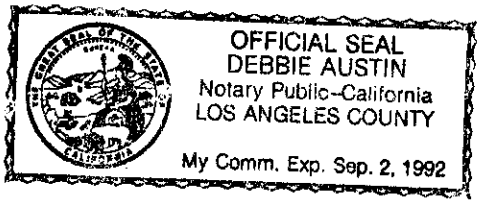
\851674\watersys\assign
July 15, 1992

MICROFILMED

MAY 21 1993

be a Partner of the Treasure Valley Village, a California limited partnership, who executed the instrument on behalf of said limited partnership, and acknowledged to me that such limited partnership executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and seal the day and year in this certificate first above written.

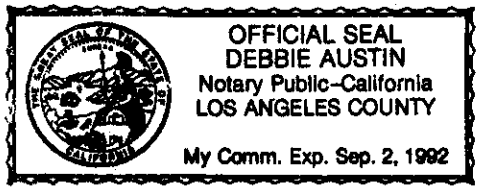


Debbie Austin
Notary Public for California
Residing at: Encino
My Commission expires: Sep. 2, 1992

STATE OF California)
: ss.
County of Los Angeles)

On this 16th day of July, 1992, before me, the undersigned, a Notary Public in and for said State, personally appeared Lawrence E. Greene, known or identified to me to be a Partner of the Treasure Valley Village, a California limited partnership, who executed the instrument on behalf of said limited partnership, and acknowledged to me that such limited partnership executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and seal the day and year in this certificate first above written.



Debbie Austin
Notary Public for California
Residing at: Encino
My Commission expires: Sep. 2, 1992

\851674\watersys\assign
July 15, 1992

MAY 21 1993

State of Idaho
Department of Water Resources

Permit To Appropriate Water

NO. 63-11413

Proposed Priority: March 14, 1991 Maximum Diversion Rate: 3.25 CFS

This is to certify, that **TREASURE VALLEY VILLAGE**
FLOATING FEATHER HILLS INC
LIMITED PARTNERSHIP
4720 EMERALD
BOISE ID 83706

has applied for a permit to appropriate water from: **GROUNDWATER**
and a permit is **APPROVED** for development of water as follows:

BENEFICIAL USE	PERIOD OF USE	RATE OF DIVERSION
IRRIGATION	03/15 to 11/15	2.00 CFS
DOMESTIC	01/01 to 12/31	1.25 CFS
FIRE PROTECTION	01/01 to 12/31	2.00 CFS
	Totals	3.25 CFS

LOCATION OF POINT(S) OF DIVERSION:

NESE Sec. 4, Township 04N, Range 01E
SWSWSW Sec. 3, Township 04N, Range 01E
SWSW Sec. 4, Township 04N, Range 01E
NWSW Sec. 3, Township 04N, Range 01E
ADA County

PLACE OF USE: IRRIGATION

TWN	RGE	SEC		ACRES		ACRES		ACRES	TOTAL
04N	01E	3	LOT 2(NWNE)	3	SWNE	29	SENE	6	
			LOT 3(NENW)	3	SENW	19	NESW	19	
			NWSW	19	SWSW	19	SESW	19	
			NESE	5	NWSE	17	SWSE	22	
			SESE	20					200

Total number of acres irrigated: 200

PLACE OF USE: DOMESTIC, same as **IRRIGATION** use

PLACE OF USE: FIRE PROTECTION, same as **IRRIGATION** use

CONDITIONS/REMARKS:

1. Proof of construction of works and application of water to beneficial use shall be submitted on or before **September 1, 1995.**
2. Subject to all prior water rights.
3. The issuance of this permit in no way grants any right-of-way or easement across the land of another.
4. The rate of diversion of water for irrigation under this permit and all other water rights on the same land shall not exceed 0.02 cubic feet per second for each acre of land.

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State of Idaho
Department of Water Resources

Permit To Appropriate Water

NO. 63-11413

CONDITIONS/REMARKS:

5. The water right holders shall provide a well acceptable to the Department for use as a monitoring well and are responsible on an on-going basis to provide a well suitable for monitoring as determined by the Department.
6. In order to conserve limited supplies in the ground water aquifer, water diverted under this right for irrigation may be diverted only during the irrigation season of March 15 through November 15. The water right holders are required to prepare feasibility studies to determine the extent to which surface water can be utilized for irrigation on both the Floating Feather Hills Project and the Trail Creek Ranch Project and to submit the studies to the Department for review and approval. As a minimum, Farmers Union Canal Company water shall be utilized for the irrigation of parcels equal to or greater than one-half acre in size during periods when water is being delivered in the canal. This water right may be used for irrigation purposes only if the entire amount of water from the Farmers Union Canal Company remains with the lands described in the application. Sale or transfer of surface water from any portion of the property will void the Department's approval to use the right for irrigation purposes.
7. The permit holder is responsible to insure that pumpage under this water right does not directly cause the water level to significantly decline in any domestic well drilled and in use prior to March 29, 1978, or to cause the water level in any other well having a prior right to exceed a reasonable pumping level, unless the permit holder provides reasonable compensation or mitigation to the prior water right holder for the reduced water levels as determined by the Director.
8. The permit holder shall permanently install and maintain totalizing flow measurement devices of a type approved by the Department as a part of each diverting works. These devices shall be maintained by the water right holders and shall be made available to inspection by Department personnel for the purpose of long-range study and monitoring of the ground water aquifer. The water right holder shall provide flow measurements to the Department on a frequency determined by the Department.
9. Each lot which receives water under this water right shall be metered, and the cost to the user allocated based on the amount of water used.
10. Domestic use is for 900 homes.

APPROVED
OCT 01 1991

State of Idaho
Department of Water Resources

Permit To Appropriate Water

NO. 63-11413

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code. Witness the seal and signature of the Director, affixed at Boise, this

11th day of September, 1991.

R. Keith Higginson, Director

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BEFORE THE DEPARTMENT OF WATER RESOURCES

OF THE

STATE OF IDAHO

IN THE MATTER OF APPLICATION FOR PERMIT NO. 63-11413	SOURCE: Ground Water
	COUNTY: Ada
Floating Feather Hills Inc. and Treasure Valley Village, Applicants; Richard and Diane Anderson, et al Protestants.	

FINAL ORDER ADOPTING PROPOSED MEMORANDUM DECISION AND ORDER APPROVING APPLICATION FOR PERMIT NO. 63-11413

Floating Feather Hills, Inc. and Treasure Valley Village (applicants) filed with the Department of Water Resources (Department) Application for Permit No. 63-11413 to appropriate unappropriated water. The application was subsequently protested which resulted in the Department conducting a hearing in the matter and issuing a proposed decision.

Exceptions to the decision have been filed by two parties. Both exceptions oppose the distinction in the decision between domestic wells drilled and used prior to March 29, 1978 and other wells, most of which are used for irriation. While the stated objections are understandable, the decision of the Director should not be changed since the March 29, 1978 date associated with domestic well use is based on a holding of the Idaho Supreme Court in a case entitled: Parker v. Wallentine. The matter is not a

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discretionary ruling of the Director; the decision should not be changed.

The Director, therefore, adopts the Proposed Memorandum Decision and Order as the Final Order with the condition that proof of construction of works and application of water to beneficial use is extended to September 1, 1995.

Dated this 11th day of September, 1991.

R. KEITH HIGGINSON, Director

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CERTIFICATE OF MAILING

I HEREBY certify that on this the 27th day of September, 1991, a true and correct copy of the foregoing FINAL ORDER ADOPTING PROPOSED MEMORANDUM DECISION AND ORDER APPROVING APPLICATION FOR PERMIT NO. 63-11413 were mailed, postage prepaid to:

Floating Feather Hills, Inc.
2417 Bank Dr. Suite 101
Boise, ID 83705

Richard & Diane Anderson
835 Los Luceros
Eagle, ID 83616

Marcia Beckwith
2260 Dicky
Eagle, ID 83616

Robert E. Beckwith
2260 Dicky
Eagle, ID 83616

John Beggrow
315 Rene
Eagle, Id 83616

Nina L. Blan
385 Dicky
Eagle, ID 83616

Leann M. Boyce
2263 Sadie
Eagle, ID 83616

William L. Blan
385 Dicky
Eagle, ID 83616

D.C. Boyer
2425 E. Floating Feather
Eagle, ID 83616

Mike & Sylvia Boyle
9845 Lariat
Boise, ID 83703

Larry & Virginia Brunette
624 Los Luceros
Eagle, ID 83616

Neal Bryson
399 Rene
Eagle, ID 83616

Steve & Anne Caron
11026 Culdesac Way
Boise, ID 83703

C.A. & Roberta Carpenter
453 Rene
Eagle, ID 83616

Clifford D. Chambers
10237 Prairie Rd.
Boise, ID 83703

Shirley Chambers
2324 Sadie
Eagle, ID 83616

Eleanor I. Chase
70 W. Floating Feather Rd
Eagle, ID 83616

Jan & Walt Costello
300 Dicky
Eagle, ID 83616

Evelyn M. Creelman
9897 Lariat St.
Boise, ID 83703

Curt Crosby
9902 Prairie
Boise, ID 83703

Merville Cushing
398 Rene
Eagle, ID 83616

Roger & Elaine Darnell
464 Rene
Eagle, ID 83616

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Otto L. & Beryl A. Johnson
10030 Prairie Rd.
Boise, ID 83703

Alice & Wendell Jones
11154 Culdesac
Boise, ID 83703

Larry Koomler
2301 Sadie
Eagle, ID 83616

Ray Kreps
2171 E. Dicky
Eagle, ID 83616

Ed Lambert
10294 Prairie Rd.
Boise, ID 83703

Steve & Jeannie Lenon
371 Rene
Eagle, ID 83616

George Loucks
2310 Madision Ave
Boise, ID 83702

Gary S. Lyons
2985 Holl Dr.
Eagle, ID 83616

Hugh & Suzanne Massie
10,000 Prairie Rd.
Boise, ID 83703

Jeff Mattoon
2266 Sadie
Eagle, ID 83616

Karl & Kay Mauritz
1471 E. Floating Feather
Eagle, ID 83616

Howard Maxwell
10895 Hwy 55
Boise, ID 83703

Richard E. Meiers
8220 Northview
Boise, ID 83704

Richard L. Mincer
10955 Runway Drive
Boise, ID 83705

C.K. Moore
10455 Prairie Rd.
Boise, ID 83703

Beth Olson
2252 E. Dicky
Eagle, ID 83616

William & Helen Pardew
P.O. Box 699
Eagle, ID 83616

F.L. Persons
11133 Horseshoe Bend Rd.
Boise, ID 83703

Alice Plecker
2248 Sadie
Eagle, ID 83616

Gerald & Catherine Renfro
10735 Horseshoe Bend Rd.
Boise, ID 83703

Monte & Suzanne Riley
10357 Prarie Rd.
Boise, ID 83703

Rhonda Roberts
279 Rene
Eagle, ID 83616

Donald & Priscilla Rogers
425 Rene
Eagle, ID 83616

Robert A. Rowen
222 Rooster Dr.
Eagle, ID 83616

Don & Janet Rydman
8999 Prairie Rd.
Boise, ID 83703

Dan Schill
9950 Prairie
Boise, ID 83703

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Robert C. Day
11034 Culdesac
Boise, ID 83703

Robert DeShazo, Jr.
Eagle Water Corp.
P.O. Box 455
Eagle, ID 83616

John F. & Kathy Dutcher
602 Los Luceros
Eagle, ID 83616

Rod W. Eisele
654 Edgewood
Eagle, ID 83616

Frank & Janet Elliot
329 Dicky
Eagle, ID 83616

Evans Water Association
c/o Terry Loftus
216 Rene Place
Eagle, ID 83616

Tommy L. Eyton
11011 Runway Drive
Boise, ID 83703

Farrell F. Ferguison
10753 Horseshoe Bend Rd.
Boise, ID 83703

Debbie Fielding
2221 Dicky
Eagle, ID 83616

Carole Fivecoat
10981 Hwy 55
Boise, ID 83703

Cliff Fivecoat
10981 Hwy 55
Boise, ID 83703

Cindy & Jose Franca
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Boise, ID 83703

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441 Rene
Eagle, ID 83616

Dewain Glubay
500 Rene
Eagle, ID 83616

William M. Gornik
10943 Hwy 55
Boise, ID 83703

Blair & Carolyn Hagerman
10236 Prairie Rd.
Boise, ID 83703

Steve & Carolyn Haughton
2218 Dicky
Eagle, ID 83616

Mike Hawkins
9975 Prairie Rd.
Boise, ID 83703

David Haworth
325 Dicky
Eagle, ID 83616

Gary M. Hazen
3577 W. Floating Feather Rd.
Eagle, ID 83616

Merle Hazen
2044 N. Meridian Rd.
Eagle, ID 83616

Dana Hofstetter
1098 Los Luceros
Eagle, ID 83616

Barton L. Jackson
914 Los Luceros Dr.
Eagle, ID 83616

Carrie E. Jackson
914 Los Luceros Dr.
Eagle, ID 83616

George & Carol Jensen
3065 E. Floating Feather Rd.
Eagle, ID 83616

Jack R. Jensen
10101 Cayuse Ln.
Boise, ID 83703

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BEFORE THE DIRECTOR OF THE DEPARTMENT

OF WATER RESOURCES OF THE

STATE OF IDAHO

IN THE MATTER OF APPLICATION FOR PERMIT NO. 63-11413 IN THE NAME OF FLOATING FEATHER HILLS INC. & TREASURE VALLEY VILLAGE	ORDER ISSUING PROPOSED MEMORANDUM DECISION

R. Keith Higginson, Director of the Department of Water Resources, having reviewed the attached proposed decision prepared by this appointee, L. Glen Saxton, who conducted the hearing or who has read the record in this case, hereby approves the same as a proposed decision pursuant to Idaho Code, Sec. 67-5211.

Each party to these proceedings who appeared at the hearing is given the opportunity, pursuant to Idaho Code, Sec. 42-1701A and 67-5211, to file exceptions to the proposed decision and to present briefs and oral arguments. If no timely and proper exceptions are received, an order by the Director will be entered adopting the proposed decision as his final decision.

I.
EXCEPTIONS

A. To be considered by the Director, exceptions must:

1. be received by the Director on or before the 15th day following the day of service of this Order and the proposed decision,

2. specifically identify the portions of the proposed decision to which exceptions are made and specifically state the grounds for those exceptions, and

3. be sent to each of the parties who appeared or their attorneys.

II.
BRIEFS

A. Any briefs in support of exceptions to the proposed decision shall be filed with the Director at the same time that party's exceptions are filed with the Director.

B. All response briefs to the exceptions must be filed with the Director within 15 days after the exceptions were served upon the responding party.

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III.

A. No oral arguments before the Director on the proposed decision will be held unless specifically requested by a party filing exceptions to the proposed decision and unless that request is filed with the Director concurrently with the filing of that party's exception.

B. If oral arguments have been properly requested by a party filing exceptions, any other party, upon reasonable notice to the Director, shall have the right to present oral argument in response to the exceptions filed.

C. Oral arguments before the Director on exceptions to the proposed decision shall be heard at the discretion of the Director, pursuant to Idaho Code, Sec. 42-1701A. If oral agruments are to be heard, the Director will, within a reasonable time, notify each party of the place, date and hour the oral arguments will take place and of the period of time allocated for the arguments of this case. Unless the Director orders otherwise, all oral arguments shall be heard in Boise, Idaho.

IV.
CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and other matters filed with the Director in connection with the proposed decision shall be served on all other parties to these proceedings in accordance with Rule 7.2.

V.
FINAL DECISION

Following the submission of all exceptions, briefs and oral arguments, if they are heard, the Director shall issue a final decision adopting, modifying or rejecting and replacing the proposed decision. Copies of the decision and order shall be served on all parties.

Dated this 9th day of August, 19 91.

R. KEITH HIGGINSON
Director

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BEFORE THE DEPARTMENT OF WATER RESOURCES

OF THE STATE OF IDAHO

IN THE MATTER OF APPLICATION FOR PERMIT NO. 63-11413	)	SOURCE: Ground Water
Floating Feather Hills Inc. and Treasure Valley Village, Applicants; Richard & Diane Anderson, et al Protestants.	)	COUNTY: Ada

PROPOSED MEMORANDUM DECISION AND ORDER APPROVING APPLICATION FOR PERMIT NO. 63-11413

BY HEARING OFFICER L. GLEN SAXTON

Floating Feather Hills, Inc. and Treasure Valley Village (applicants) having filed with the Department of Water Resources (Department) Application for Permit No. 63-11413 to appropriate unappropriated water; protests having been filed; a hearing having been held; and post-hearing briefs having been received, the department finds, concludes, and orders as follows:

FINDINGS OF FACT

1. On October 22, 1990, Floating Feather Hills, Inc. applied to the Department for a permit to appropriate 5.0 cubic feet per second (cfs) of ground water from a well within the SW1/4 SW1/4 SW1/4, Sec. 3, Twp. 4N, Rge. 1E, B.M. to be used for domestic and fire protection purposes for up to 600 residences from January 1 through December 31 each year and for irrigation purposes from March 15 through November 15 of each year. Notice of the application was published in the Idaho Statesman on November 15 and 22, 1990.

2. On December 10, 1990, Floating Feather Hills, Inc. amended the application by adding three additional points

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of diversion, located within the NW1/4 SW1/4, Sec. 3, SW1/4 SW1/4 and NE1/4 SE1/4, Sec. 4, Twp. 4N, Rge 1E, B.M. Notice of the amendment was published in the Idaho Statesman on December 20 and 27, 1990.

3. Protests against approval of the application were received from about 90 individuals and organizations. A list of protestants is attached hereto as Attachment A and is incorporated herein by reference.

4. On January 24, 1991, the Department conducted a meeting regarding the application during which the objectives were: (1) for the applicant to acquaint the protestants with the proposed project and proposed aquifer studies, (2) for the Department to present information regarding the geology and ground water aquifers in the vicinity of the proposed diversion, and (3) for the protestants to identify their concerns. At the meeting the applicant described a proposal for drilling a production/test well at the original point of diversion, and conducting a pumping test and aquifer analysis.

5. On February 13, 1991, the Department held a meeting to solicit technical recommendations for the conduct of the pumping test and aquifer analysis. Technical representatives of the applicant, representative protestants, and members of the local hydrogeologic community attended the meeting.

6. On March 14, 1991, the applicant assigned the application to add the name of Treasure Valley Village, and amended the application by: (1) increasing the rate of flow for domestic water use from 1.0 cfs to 1.25 cfs, with 5.0 cfs remaining as the total diversion rate for the three water uses; (2) adding to the original place of use, two additional tracts within Sec. 3, NESE and SESE; and (3) increasing the total number of homes served to 900. The amendment delayed the date of priority of the application to March 14, 1991. Notice of the amendment was published in the Idaho Statesman on March 21 and 28, 1991.

7. On March 15, 1991, the Department held a meeting

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at the site of the production well that had been drilled by the applicants. At this meeting Mr. Charles F. Feast, a geohydrologist employed by the consulting firm CH2M-Hill and retained by the applicants, described the proposed pumping test and data collection network. Protestants and members of the local hydrogeologic community discussed the proposal and provided input for the operation of the pumping test.

8. The pumping test commenced on March 26, 1991, and pumping of the well continued for thirty (30) days. The recovery portion of the test began on April 25 and continued until May 6, 1991. At the start of the test and again on April 23, 1991, the Department held on-site meetings to solicit input regarding the test from protestants and other interested parties. Data collected during the test are compiled in a report dated June 1991 prepared by Mr. Feast.

9. Department geologist Steven J. Baker prepared a report entitled "Ground-Water Conditions in the Dry Creek Area, Eagle, Idaho" based on a compilation of available hydrologic and geologic data from the area, including the pump test results. The Department distributed the report prior to the hearing to all interested parties who had requested a copy.

10. The Department held a hearing regarding the application on Wednesday, June 12, 1991. Phillip M. Barber, attorney, represented the applicants. Protestants present at the hearing are identified on Attachment A.

11. The hearing consisted of two parts. In Part I, the applicants provided information concerning the proposal by testimony and/or exhibits from David H. Roylance, project engineer for Floating Feather Hills, Inc.; William R. Gehrke, general partner in Treasure Valley Village; Sherl L. Chapman, ground water geologist; Charles F. Feast, hydrogeologist; Carlyle Briggs, project engineer for Treasure Valley Village; William Pardew, local landowner and data collector; and Bryce Peterson, partner in Floating Feather Hills, Inc. Also in Part I, protestants in attendance presented their testimony. Part II was an evening session which consisted of testimony

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primarily by protestants unable to attend the Part I session.

12. The report from Mr. Feast entitled "Results of the 30-Day Pumping Test and Aquifer Analysis" was finalized and made available the day of the hearing. The hearing officer left the record open to allow the protestants fifteen (15) days to respond to the information in the report, with a subsequent rebuttal period of ten (10) days for the applicant.

13. The protestants raised objections to the proposed diversions by alleging that:

(a) the diversions would reduce the quantity of water under existing water rights;

(b) the water supply is insufficient for the proposed uses;

(c) the application was filed for speculative purposes;

(d) the applicants do not have sufficient financial resources with which to develop the project;

(e) the diversion would conflict with the local public interest; and,

(f) the proposed project would be contrary to the conservation of water within the State of Idaho.

Geology and Aquifer Characteristics

14. The geologic formations that underlie the four points of diversion identified in the application appear to be thick sequences of bedded alluvial sands, silts and clays. Well logs in the area demonstrate that these sequences extend at least 400 feet deep. Water-bearing strata appears to thicken to the south and west.

15. The aquifer is characterized as a stratified water table aquifer consisting of highly permeable sand layers and lenses separated by discontinuous and leaky sandy clays. In response to pumping, the aquifer was found to behave as a single, thick water table aquifer.

16. The potentiometric surface map of water levels in the area indicates that the direction of ground water movement in the area is from northeast to southwest with a

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slope of between 40 and 100 feet per mile. This gradient, in conjunction with transmissivity computed to be in the order of 100,000 gallons per day per foot, indicates that groundwater is likely flowing from the northeast to the southwest of the aquifer as lateral outflow.

17. Recharge to the aquifer appears to consist of a combination of deep percolation of precipitation and from infiltration of surface water along tributaries of the Boise River, lateral inflow, and infiltration of unconsumed irrigation water from the Boise River system, conveyed to the area through the Farmers Union Canal Company canal. For long-term stability of the aquifer, it is important that these sources of recharge not be diminished.

18. Analysis of the aquifer indicates that the present annual discharge rate for wells in the area does not appear to exceed the long-term annual recharge rate. However, during the period from 1970 to 1989, declines in the water table have been identified in the vicinity of the proposed diversions. These declines have varied from negligible amounts in the northeast portion of the proposed place of use, to about ten (10) feet in the southwest portion. The existence of these declines is an indicator that the aquifer in the vicinity of the proposed project must be carefully monitored.

19. The static water level in the aquifer is generally about 60 to 70 feet below ground level.

20. The current observation well network in the vicinity of the proposed diversions is inadequate to monitor the effects of continued development of the ground water resources in the area.

Quantity of Water and Impact on Other Water Rights

21. At the hearing, the applicants reduced the total requested rate of flow to 3.25 cfs based upon the understanding that diversion for fire protection would not result in a simultaneous reduction in rate of flow for domestic and irrigation purposes.

22. Presently the property that is proposed to be

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developed under the application is irrigated from the Farmers Union Canal Company canal that flows adjacent to the property. The applicants agreed to not sell or transfer to another location any of the surface water rights that are presently associated with the property. In addition, they offered to develop a pressurized irrigation system to utilize these surface water rights in specified areas, to include common areas and lots where systems are found to be economically feasible, generally for those lots one-half acre and greater in size.

23. A reasonable pumping lift has not been established by the department in the vicinity of the proposed development.

24. Most of the wells in the area are 125 to 200 feet deep and provide single family domestic water. Some of the wells were drilled and used before March 29, 1978. Several old, shallow wells near the proposed diversions may experience problems because the pumps cannot be lowered. These wells may have to be deepened or replaced.

25. The applicants drilled the test/production well to a depth of 415 feet and placed screens from 215 to 265 feet and from 375 to 385 feet. Because the aquifer behaves as a single, thick water table aquifer, withdrawals from the well were not isolated to the deeper aquifers and impacted shallower aquifers.

26. Aquifer analyses based on information compiled in the pumping test and the best available projection techniques resulted in long-term anticipated drawdowns of less than 10 feet for wells located outside a radius of 0.25 miles.

27. The rate of flow requested for irrigation purposes is 2.0 cfs for the irrigation of 200 acres. Computations submitted by the protestants showed that irrigation of 500 lawns would require less than this rate of flow. However, there may be periods early and late in the irrigation season when the irrigation of lawns is desirable and when there is no water flowing in the Farmers Union Canal

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Company canal. During these periods, there may be a requirement to irrigate all of the lawns and all common landscaped areas from ground water. During these periods, the requested rate of flow for irrigation purposes is not excessive.

Additional Considerations

28. The proposed development consists of two projects, the Floating Feather Hills Project to be developed by Floating Feather Hills, Inc., and the Trail Creek Ranch Project to be developed by Treasure Valley Village.

29. The applicants testified that both projects are intended to be constructed, and the application was not filed for delay or speculative purposes.

30. The applicants testified that sufficient funding is available to construct each of the projects.

31. The applicants established that development of the proposed projects has the potential to provide short term employment opportunities via the development of subdivisions, and to provide long-term benefits as residential areas.

32. There was no testimony to indicate that development of the proposed project would be contrary to the conservation of water resources within the State of Idaho.

33. The practice of metering water supplies and assessing charges based on the amount of water used, serves to encourage conservation of water supplies.

CONCLUSIONS OF LAW

Applicable Legal Principles

1. Idaho Code, Sec. 42-203A(5) states in part as follows:

> The director of the department of water resources shall find and determine from the evidence presented to what use or uses the water sought to be appropriated can be and are intended to be applied. In all applications whether protested or not protested, where the proposed use is such (a) that it will reduce the quantity of water under existing water rights, or (b) that the water supply itself is insufficient for the purpose for which it is sought to be appropriated, or (c) where it appears to the satisfaction of the department that such application is not made in good faith, is made for daily or

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speculative purposes, or (d) that the applicant has not sufficient financial resources with which to complete the work involved therein, or (e) that is will conflict with the local public interest, where the local public interest is defined as the affairs of the people in the area directly affected by the proposed use, or (f) that it is contrary to conservation of water resources within the state of Idaho; the director of the department of water resources may reject such application and refuse issuance of a permit therefor, or may partially approve and grant a permit for a smaller quantity of water than applied for, or may grant a permit upon conditions.

2. Idaho Code, Sec. 42-226 states in part as follows:

> It is hereby declared that the traditional policy of the state of Idaho, requiring the water resources of this state to be devoted to beneficial use in reasonable amounts through appropriation, is affirmed with respect to the ground water resources of this state as said term is hereinafter defined and, while the doctrine of "first in time is first in right" is recognized, a reasonable exercise of this right shall not block full economic development of underground water resources, but early appropriators of underground water shall be protected in the maintenance of reasonable ground water pumping levels as may be established by the director of the department of water resources as herein provided.

3. Domestic wells drilled prior to [March 29,] 1978, are exempt from the provisions of Idaho Code, Sec. 42-226. Parker v. Wallentine, 103 Idaho 506, 510 (1982).

4. Consideration of the local public interest criterion of Idaho Code, Sec. 42-203A(5) is defined by the Department Water Appropriation Rules and Regulations, Rule 5,1,5. to include:

> ... the effect the project will have on the economy of the local area affected by the proposed use as determined by the employment opportunities, both long and short term, revenue changes to various sectors of the economy, short and long term, and the stability of revenue and employment gains; the effect the project will have on recreation, fish and wildlife resources in the local public area affected by the proposed use; and compliance with applicable air, water and hazardous substance standards, and compliance with planning and zoning ordinances of local or state government jurisdictions.

Application of Legal Principles

5. Technical information provided indicates that there is sufficient water in the ground water aquifer to satisfy additional appropriations in the vicinity of the proposed diversions.

6. Pumpage from the proposed diversions may increase the depth to water in neighboring wells. The precise extent to which this pumpage will reduce the amount of water available to satisfy existing water rights is unknown. However, the best available predictions demonstrate that the predicted impacts on water levels in neighboring wells are not excessive.

7. The permit holder is responsible to compensate or to mitigate adverse impacts to owners of domestic wells drilled and used prior to March 29, 1978, if the permit holder's use directly causes such a domestic well to become unusable or require modification of the well or pumping system in order to obtain the domestic water.

8. The application is found to have been made in good faith and not for delay or speculative purposes.

9. The applicants have demonstrated financial ability by conducting a thorough and costly pumping test and aquifer analysis, and by uncontested testimony at the hearing.

10. Consistent with statutory guidelines relative to determination of local public interest, the proposed project is found to be in the local public interest.

11. The proposed diversions are not contrary to the conservation of water resources within the State of Idaho.

12. All protestants in this matter have had sufficient opportunity to be heard.

ANALYSIS

The principle concern expressed by protestants in this matter is the future impact on water levels within the ground water aquifer, resulting in the potential to dewater existing wells.

The nature of ground water aquifers is that future

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behavior is not fully predictable. The protestants have correctly emphasized that absolute determinations cannot be made regarding this aquifer. However, data acquisition and analysis can be used to identify aquifer characteristics which can be used in modeling and predicting aquifer behaviors.

The ground water aquifer in the vicinity of the points of diversion proposed in the application has become the subject of some of the most detailed aquifer studies in the State of Idaho. A combination of Department data collection and analysis over a three year period; studies and analysis conducted by Boise State University; data collection by the United States Geologic Survey; and the pump test and aquifer analysis financed by the applicants and monitored by the Department and all interested parties, serve to provide as clear a picture of the potential impacts as can be feasibly developed. The resulting modeling information demonstrates that excessive drawdowns are not anticipated as a result of the proposed diversions.

The department must consider, however, the potential effect of a new proposal on senior water rights relative to the future ability of the senior rights to obtain water at or above the reasonable ground water pumping level. In the present case, the lowering of the water level in domestic wells drilled prior to March 29, 1978 may require action of the permit holder to either compensate or mitigate such prior right holders for modifications required as a direct cause of withdrawal of water under the permit.

Due to the uncertainties inherent with ground water supplies, monitoring of the aquifer must be continued. Proper monitoring of the aquifer can be achieved by adding an additional well to the existing network of Department/United States Geologic Survey monitoring wells. In addition, it is necessary to continuing collection of data for assessment of the impact on other wells from pumpage of the proposed wells.

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ORDER

It is ORDERED that Application for Permit No. 63-11413 is HEREBY APPROVED subject to the following conditions:

1. This water right is subject to all prior water rights.

2. The water right holders shall provide a well acceptable to the Department for use as a monitoring well and are responsible on an on-going basis to provide a well suitable for monitoring as determined by the Department.

3. The rates of flows authorized for diversion under this water right permit are limited as follows:

Use	Amount	Period of Use From	To
Domestic	1.25 cfs	January 1	December 31
Irrigation	2.00 cfs	March 15	November 15
Fire Protection	2.00 cfs	January 1	December 31

Total: 3.25 cfs

4. In order to conserve limited supplies in the ground water aquifer, water diverted under this right for irrigation may be diverted only during the irrigation season of March 15 through November 15. The water right holders are required to prepare feasibility studies to determine the extent to which surface water can be utilized for irrigation on both the Floating Feather Hills Project and the Trail Creek Ranch Project and to submit the studies to the Department for review and approval. As a minimum, Farmers Union Canal Company water shall be utilized for the irrigation of parcels equal to or greater than one-half acre in size during periods when water is being delivered in the canal.

5. This water right may be used for irrigation purposes only if the entire amount of water from the Farmers Union Canal Company remains with the lands described in the application. Sale or transfer of surface water from any portion of the property will void the department's approval to

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use the right for irrigation purposes.

6. The permit holder is responsible to insure that pumpage under this water right does not directly cause the water level to significantly decline in any domestic well drilled and in use prior to March 29, 1978, or to cause the water level in any other well having a prior right to exceed a reasonable pumping level, unless the permit holder provides reasonable compensation or mitigation to the prior water right holder for the reduced water levels as determined by the director.

7. The permit holder shall permanently install and maintain totalizing flow measurement devices of a type approved by the department as a part of each diverting works. These devices shall be maintained by the water right holders and shall be made available to inspection by Department personnel for the purpose of long-range study and monitoring of the ground water aquifer. The water right holder shall provide flow measurements to the department on a frequency determined by the department.

8. Each lot which receives water under this water right shall be metered, and the cost to the user allocated based on the amount of water used.

9. Proof of construction of works and application of water to beneficial use shall be submitted on or before the date indicated on the final order.

10. Protestants who did not attend the hearing are considered to be bound by this decision to the same extent as those that did attend the hearing in this matter.

Dated this 7th day of August, 1991.

David R. Tuthill Jr.
for L. GLEN SAXTON
Hearing Officer

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ATTACHMENT A

Application For Permit
No. 63-11413, In the Names of
FLOATING FEATHER HILLS, INC.,
and TREASURE VALLEY VILLAGE

PROTESTANTS

Richard & Diane Anderson
Marcia Beckwith
Robert E. Beckwith
John Beggrow
Nina L. Blan
Leann M. Boyce
William L. Blan
D.C. Boyer
Mike & Sylvia Boyle
Larry & Virginia Brunette
Neal Bryson
Steve & Anne Caron
C.A. & Roberta Carpenter
Clifford D. Chambers
Shirley Chambers
Eleanor I. Chase*
Jan & Walt Costello
Evelyn M. Creelman
Curt Crosby
Merville Cushing
Roger & Elaine Darnell
*Robert C. Day (Billie)
*Robert DeShazo, Jr.
Eagle Water Corp.
John F. & Kathy Dutcher
Rod W. Eisele
Frank & Janet Elliot
*Evans Water Association
Tommy L. Eyton
Farrell F. Ferguison
Debbie Fielding
Carole Fivecoat
Cliff Fivecoat
Cindy & Jose Franca
A. Daniel Freiberg
Dewain Glubay
William M. Gornik
Blair & Carolyn Hagerman
Steve & Carolyn Haughton
Mike Hawkins
David Haworth
Gary M. Hazen
Merle Hazen
Dana Hofstetter
Barton L. Jackson
Carrie E. Jackson
*George & Carol Jensen
Jack R. Jensen
*Otto L. & Beryl A. Johnson
*Alice & Wendell Jones
*Larry Koomler
Ray Kreps
Ed Lambert
Steve & Jeannie Lenon
George Loucks
Gary S. Lyons
*Hugh & Suzanne Massie
Jeff Mattoon
Karl & Kay Mauritz
*Howard Maxwell
Richard E. Meiers
Richard L. Mincer
C.K. Moore
Beth Olson
*William & Helen Pardew
*F.L. Persons
Alice Plecker
*Gerald & Catherine Renfro
Monte & Suzanne Riley
Rhonda Roberts
Donald & Priscilla Rogers
Robert A. Rowen
Don & Janet Rydman
*Dan Schill
*Louis C. Siron, III
Steve & Ruby Smith
Beverly Snediker
Knight & Rhonda Stanley
E.F. Stark
*Robert & Sondra Strain
*Dennis Sutherland
S.H. Sutherland
Sharyn K. Sutherland
Donald R. Thomas
Harry & Leona Vogt
Thurman & Annemarie Wardlow
*Mrs. C.B. Weber
Philip D. Whitener
*Neil D. Wilton
Jene & Steve Yundt

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* Denotes attendance at hearing

CERTIFICATE OF MAILING

I HEREBY certify that on this the 9th day of August, 1991, a true and correct copy of the foregoing ORDER ISSUING PROPOSED DECISION and PROPOSED MEMORANDUM DECISION AND ORDER APPROVING APPLICATION FOR PERMIT NO. 63-11413 were mailed, postage prepaid to:

FLOATING FEATHER HILLS, INC.
2417 Bank Dr. Suite 101
Boise, ID 83705

Richard & Diane Anderson
835 Los Luceros
Eagle, ID 83616

Marcia Beckwith
2260 Dicky
Eagle, ID 83616

Robert E. Beckwith
2260 Dicky
Eagle, ID 83616

John Beggrow
315 Rene
Eagle, ID 83616

Nina L. Blan
385 Dicky
Eagle, ID 83616

Leann M. Boyce
2263 Sadie
Eagle, ID 83616

William L. Blan
385 Dicky
Eagle, ID 83616

D.C. Boyer
2425 E. Floating Feather
Eagle, ID 83616

Mike & Sylvia Boyle
9845 Lariat
Boise, ID 83703

Larry & Virginia Brunette
624 Los Luceros
Eagle, ID 83616

Neal Bryson
399 Rene
Eagle, ID 83616

Steve & Anne Caron
11026 Culdesac Way
Boise, ID 83703

C.A. & Roberta Carpenter
453 Rene
Eagle, ID 83616

Clifford D. Chambers
10237 Prairie Rd.
Boise, ID 83703

Shirley Chambers
2324 Sadie
Eagle, ID 83616

Eleanor I. Chase
70 W. Floating Feather Rd
Eagle, ID 83616

Jan & Walt Costello
300 Dicky
Eagle, ID 83616

Evelyn M. Creelman
9897 Lariat St.
Boise, ID 83703

Curt Crosby
9902 Prairie
Boise, ID 83703

Merville Cushing
398 Rene
Eagle, ID 83616

Roger & Elaine Darnell
464 Rene
Eagle, ID 83616

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Robert C. Day
11034 Culdesac
Boise, ID 83703

Robert DeShazo, Jr.
Eagle Water Corp.
P.O. Box 455
Eagle, ID 83616

John F. & Kathy Dutcher
602 Los Luceros
Eagle, ID 83616

Rod W. Eisele
654 Edgewood
Eagle, ID 83616

Frank & Janet Elliot
329 Dicky
Eagle, ID 83616

Evans Water Association
c/o Terry Loftus
216 Rene Place
Eagle, ID 83616

Tommy L. Eyton
11011 Runway Drive
Boise, ID 83703

Farrell F. Ferguison
10753 Horseshoe Bend Rd.
Boise, ID 83703

Debbie Fielding
2221 Dicky
Eagle, ID 83616

Carole Fivecoat
10981 Hwy 55
Boise, ID 83703

Cliff Fivecoat
10981 Hwy 55
Boise, ID 83703

Cindy & Jose Franca
9837 Prairie Rd.
Boise, ID 83703

A. Daniel Freiberg
441 Rene
Eagle, ID 83616

Dewain Glubay
500 Rene
Eagle, ID 83616

William M. Gornik
10943 Hwy 55
Boise, ID 83703

Blair & Carolyn Hagerman
10236 Prairie Rd.
Boise, ID 83703

Steve & Carolyn Haughton
2218 Dicky
Eagle, ID 83616

Mike Hawkins
9975 Prairie Rd.
Boise, ID 83703

David Haworth
325 Dicky
Eagle, ID 83616

Gary M. Hazen
3577 W. Floating Feather Rd.
Eagle, ID 83616

Merle Hazen
2044 N. Meridian Rd.
Eagle, ID 83616

Dana Hofstetter
1098 Los Luceros
Eagle, ID 83616

Barton L. Jackson
914 Los Luceros Dr.
Eagle, ID 83616

Carrie E. Jackson
914 Los Luceros Dr.
Eagle, ID 83616

George & Carol Jensen
3065 E. Floating Feather Rd.
Eagle, ID 83616

Jack R. Jensen
10101 Cayuse Ln.
Boise, ID 83703

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Otto L. & Beryl A. Johnson
10030 Prairie Rd.
Boise, ID 83703

Alice & Wendell Jones
11154 Culdesac
Boise, ID 83703

Larry Koomler
2301 Sadie
Eagle, ID 83616

Ray Kreps
2171 E. Dicky
Eagle, ID 83616

Ed Lambert
10294 Prairie Rd.
Boise, ID 83703

Steve & Jeannie Lenon
371 Rene
Eagle, ID 83616

George Loucks
2310 Madision Ave
Boise, ID 83702

Gary S. Lyons
2985 Holl Dr.
Eagle, ID 83616

Hugh & Suzanne Massie
10,000 Prairie Rd.
Boise, ID 83703

Jeff Mattoon
2266 Sadie
Eagle, ID 83616

Karl & Kay Mauritz
1471 E. Floating Feather
Eagle, ID 83616

Howard Maxwell
10895 Hwy 55
Boise, ID 83703

Richard E. Meiers
8220 Northview
Boise, ID 83704

Richard L. Mincer
10955 Runway Drive
Boise, ID 83705

C.K. Moore
10455 Prairie Rd.
Boise, ID 83703

Beth Olson
2252 E. Dicky
Eagle, ID 83616

William & Helen Pardew
P.O. Box 699
Eagle, ID 83616

F.L. Persons
11133 Horseshoe Bend Rd.
Boise, ID 83703

Alice Plecker
2248 Sadie
Eagle, ID 83616

Gerald & Catherine Renfro
10735 Horseshoe Bend Rd.
Boise, ID 83703

Monte & Suzanne Riley
10357 Prarie Rd.
Boise, ID 83703

Rhonda Roberts
279 Rene
Eagle, ID 83616

Donald & Priscilla Rogers
425 Rene
Eagle, ID 83616

Robert A. Rowen
222 Rooster Dr.
Eagle, ID 83616

Don & Janet Rydman
8999 Prairie Rd.
Boise, ID 83703

Dan Schill
9950 Prairie
Boise, ID 83703

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Louis C. Siron, III
10374 Prairie Rd.
Boise, ID 83703

Steve & Ruby Smith
10029 Prairie Rd.
Boise, ID 83703

Beverly Snediker
9780 Prairie Rd.
Boise, ID 83703

Knight & Rhonda Stanley
11067 Culdesac Way
Boise, ID 83703

E.F. Stark
133 Rooster Dr.
Eagle, ID 83616

Robert & Sondra Strain
11029 Runway Drive
Boise, ID 83703

Dennis Sutherland
11036 Runway Dr.
Boise, ID 83703

S.H. Sutherland
2425 E. Floating Feather Rd.
Eagle, ID 83616

Sharyn K. Sutherland
11036 Runway Dr.
Boise, ID 83703

Donald R. Thomas
10230 Caruse Ln.
Boise, ID 83703

Harry & Leona Vogt
3734 W. Beacon Lt. Rd.
Eagle, ID 83616

Thurman & Annemarie Wardlow
489 Rene
Eagle, ID 83616

Mrs. C.B. Weber
11053 Horseshoe Bend Rd.
Boise, ID 83703

Philip D. Whitener
198 Rooster Dr.
Eagle, ID 83616

Neil D. Wilton
632 N. Edgewood Lane
Eagle, ID 83616

Jene & Steve Yundt
477 Rene
Eagle, ID 83616

HOMCO
2417 Bank Drive
Suite 101
Boise, ID 83705

Phillip Barber
Hawley, Troxell, Ennis & Hawley
P O Box 1617
Boise ID 83701

Rita L. Fleck

RITA L. FLECK
Secretary/Records Manager

Louis C. Siron, III
10374 Prairie Rd.
Boise, ID 83703

Steve & Ruby Smith
10029 Prairie Rd.
Boise, ID 83703

Beverly Snediker
9780 Prairie Rd.
Boise, ID 83703

Knight & Rhonda Stanley
11067 Culdesac Way
Boise, ID 83703

E.F. Stark
133 Rooster Dr.
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11029 Runway Drive
Boise, ID 83703

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Boise, ID 83705

Phillip Barber
Hawley, Troxell, Ennis & Hawley
P. O. Box 1617
Boise, ID 83701

Rita I. Fleck

RITA I. FLECK
Secretary/Records Manager

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Ident. No. **63-11413**

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

AMENDED **APPLICATION FOR PERMIT** AMENDED

To appropriate the public waters of the State of Idaho

1. Name: TREASURE VALLEY VILLAGE 208-336-3393
   Address: LIMITED PARTNERSHIP
   4720 EMERALD
   BOISE, ID 83706
   AND
   Name: FLOATING FEATHER HILLS INC. 208-343-6500
   Address: 2417 BANKS DRIVE
   SUITE 101
   BOISE, ID 83705

2. Source: GROUNDWATER Trib. to:

3. Location of Point of Diversion:
   NWSW Sec. 3, Township 04N, Range 01E
   SWSWSW Sec. 3, Township 04N, Range 01E
   SWSW Sec. 4, Township 04N, Range 01E
   NESE Sec. 4, Township 04N, Range 01E
   ADA County

4. Water will be used for the following purposes:

Purpose	From	To	CFS	(or)	AF
IRRIGATION	03/15	11/15	2.000		
DOMESTIC	01/01	12/31	1.250		
FIRE PROTECTION	01/01	12/31	2.000		

5. Total quantity to be appropriated is:
   5.000 CFS (and/or) AF

6. Proposed diverting works:
   a. Description of ditches, flumes, pumps, headgates, etc.
   WELL, PUMP AND PIPELINE
   b. Height of storage dam feet; active reservoir capacity acre-feet; total reservoir capacity acre-feet; period of year when water will be diverted to storage: to inclusive.
   c. Proposed well diameter is 16 inches; proposed depth of well is 415 feet.
   d. Is groundwater with a temperature greater than 90F being sought? NO

7. Time required for the completion of the works and application of the water to the proposed beneficial use is 5 years.

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8. Description of proposed uses:
DOMESTIC, FIRE PROTECTION AND IRRIGATION USES FOR SUBDIVISIONS, 900 Homes.

9. Place of Use: IRRIGATION

TWN	RGE	SEC			ACRES		ACRES		ACRES	TOTAL
04N	01E	3	LOT	2 (NWNE)	3	SWNE	29	SENE	6	
			LOT	3 (NENW)	3	SENW	19	NESW	19	
				NWSW	19	SWSW	19	SESW	19	
				NESE	5	NWSE	17	SWSE	22	
				SESE	20					200

Total number of acres irrigated: 200

Place of Use: DOMESTIC, same as IRRIGATION use

Place of Use: FIRE PROTECTION, same as IRRIGATION use

10. Describe any other water rights used for the same purposes.

11. a. Who owns the property at the point of diversion?
FLOATING FEATHER AND S&H FARMS
b. Who owns the land to be irrigated or place of use?
APPLICANTS
c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing.
UNDER NEGOTIATION.

12. Remarks:
Amended by adding Treasure Valley Village requirements on 3/14/91

13. Map of proposed point of diversion and place of use attached? [K]

BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

FLOATING FEATHER HILLS, INC.

x _____, Pres

Applicant

TREASURE VALLEY VILLAGE, A LIMITED PARTNERSHIP

x _____ PARTNER

Date amended is new priority date.

Received by Dnr Date 3/14/91 Time 1:00p. Preliminary check by Dnr

Fee $ 20.00 for Amendment Receipted by Dnr # W013108 Date 3/15/91

Publication prepared by _____ Date _____ Published in _____

Publication approved _____ Date _____

OCT 01 1991

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

ASSIGNMENT OF APPLICATION FOR PERMIT

I, BRYCE L. PETERSON, PRESIDENT OF FLOATING FEATHER HILLS, INC., hereby assign to FLOATING FEATHER HILLS, INC. AND TREASURE VALLEY VILLAGE

of, 2417 BANK DRIVE, SUITE 101, BOISE, ID 83705 [redacted]
(respectively) (Full Address)

All my right, title, and interest in and to Application for Permit No. 63- 11413 to appropriate the public waters of the State of Idaho.

Or (for partial assignments)

The following described portion of my right, title, and interest in and to Application for Application for Permit No. _____ to appropriate the public waters of the State of Idaho.

Describe portion of the application assigned listing the number of acres in each 40 acre subdivision, point of diversion location, and the amount of water in cubic feet per second.

_____

_____

_____

DRILLING PERMIT 63-9144 W. 044 ISSUED 2/27/91 FOR TEST WELL IN S.3 SW SW.

_____

Made this 13TH day of MARCH, ~~1990~~ 1991.

FLOATING FEATHER HILLS, INC.

BY: Bryce L Peterson
Applicant

BRYCE L. PETERSON, PRESIDENT

State of Idaho)
ss
County of ADA)

On this 13th day of MARCH, 199[illegible], personally appeared before me the signer of the above instrument, duly acknowledged to me that he (she) (they) executed the same.

Georgia Mackley
Notary Public

seal GEORGIA MACKLEY
BOISE, ID

My commission expires: 6/20/94

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8. Description of proposed uses (*if irrigation only, go to item 9*):

a. Hydropower; show total feet of head and proposed capacity in KW. _____

b. Stockwatering; list number and kind of livestock. _____

c. Municipal; show name of municipality. _____

d. Domestic; show number of households. 500 - 600

e. Other; describe fully. _____

9. Description of place of use:

a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.

b. If water is used for other purposes, place a symbol of the use (*example: D for Domestic*) in the corresponding place of use below. See instructions for standard symbols.

TWP	RANGE	SEC.	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
4N	1E	3			~~40~~				~~40~~	~~40~~					~~40~~	~~40~~	~~40~~	~~40~~	~~[illegible] 40A~~
				L.2 3	29	6	L.3 3			29	29	29	29	29		7	7		200

Total number of acres to be irrigated [illegible] 200

10. Describe any other water rights used for the same purposes as described above. _____

11. a. Who owns the property at the point of diversion? Floating Feather Hills Inc

b. Who owns the land to be irrigated or place of use? Floating Feather Hills Inc

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing. _____

12. Remarks: Applicant is purchasing the property from Marlyna Hotlgate with a contract.

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* per telecon with D. Roylance 10/2/90 SL.
& per topo received 10/26/90

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Form 42
6/88

Ident. No. 63-11413

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Department of Water Resources APPLICATION FOR PERMIT

AMENDED **

To appropriate the public waters of the State of Idaho

1. Name of applicant Floating Feather Hills Inc Phone 343-6500 ~~336-7390~~
*** 2417 Banks Dr. Suite 101
Post office address ~~4227 Emerald Boise ID 83706~~ 83705

2. Source of water supply Deep well (ground water) which is a tributary of NA

3. Location of point of diversion is SW ¼ of SW ¼ of SW ¼, Govt. Lot —
Sec. 3 Township 4N Range 1E B.M. Ada County; additional
** AMENDED → points of diversion if any: NWSW S.3 ; SWSW and NESE S.4 , T4N R1E

4. Water will be used for the following purposes:

Amount 1cfs for Domestic purposes from Jan 1 to Dec 31 (both dates inclusive)
(cfs or acre-feet per annum)

Amount 2cfs for Fire Protection purposes from Jan 1 to Dec 31 (both dates inclusive) *
(cfs or acre-feet per annum)

Amount 2 for Irrig purposes from Mar 15 to Nov 15 (both dates inclusive) (allowable season)
(cfs or acre-feet per annum)

Amount ____ for ____ purposes from ____ to ____ (both dates inclusive)
(cfs or acre-feet per annum)

5. Total quantity to be appropriated is (a) 5 cfs and/or (b) ____
cubic feet per second acre feet per annum

6. Proposed diverting works:

a. Description of ditches, flumes, pumps, headgates, etc. Deep wells, pumps, pipelines *

b. Height of storage dam NA feet; active reservoir capacity NA acre-feet; total reservoir capacity NA acre-feet; period of year when water will be diverted to storage: NA to NA inclusive.

c. Proposed well diameter is 14" - 16" inches; proposed depth of well is 350-500 feet.

d. Is ground water with a temperature of greater than 90°F being sought? No

7. Time required for the completion of the works and application of the water to the proposed beneficial use is *
5 years years (*minimum 1 year*).

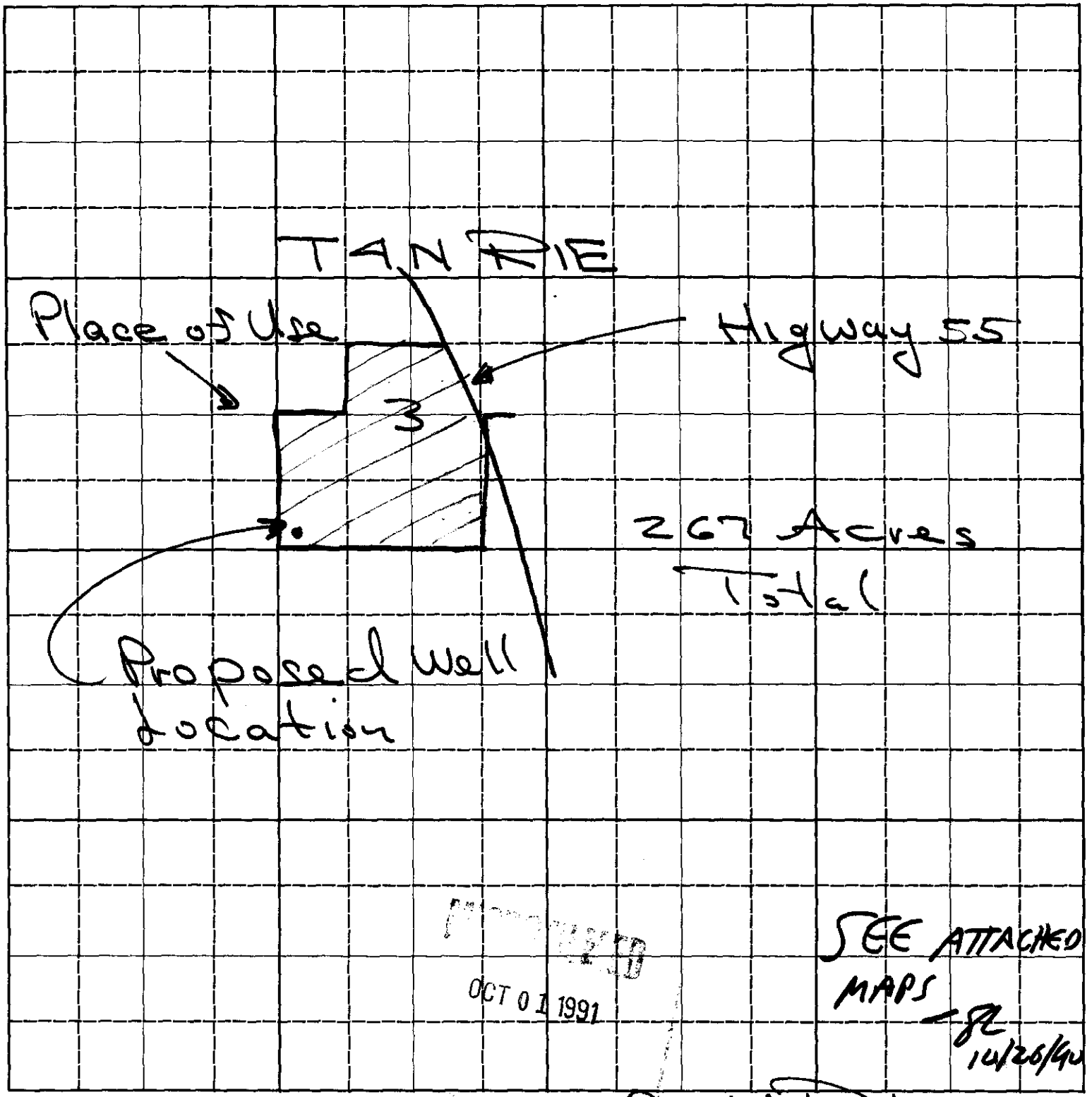
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* Per telecon with D. Roylance 10/25/90

** Amended per office visit by D. Roylance. SL
10/30/91

DATABASE UPDATED
*** address change per telecon with Georgia Mackley of F.F. Hills Inc, 12/4/91 SL

13. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.



Scale: 2 inches equal 1 mile.

David Foylance

BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

(Applicant)

Received by YB. Date 10/24/1990 Time 1:25pm Preliminary check by

Fee $ 145.00 Receipted by # C018679 Date 10/23/90

AMENDMENT $ 20 W 012402 12/10/90

Publication prepared by GG Date 11/7/90 Published in ID Statesman 11/15 & 11/22/90

Publication approved Date

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

This is to certify that I have examined Application for Permit to appropriate the public waters of the State of Idaho No. _____, and said application is hereby _____.

1. Approval of said application is subject to the following limitations and conditions:

   a. SUBJECT TO ALL PRIOR WATER RIGHTS.

   b. Proof of construction of works and application of water to beneficial use shall be submitted on or before _____, 19____.

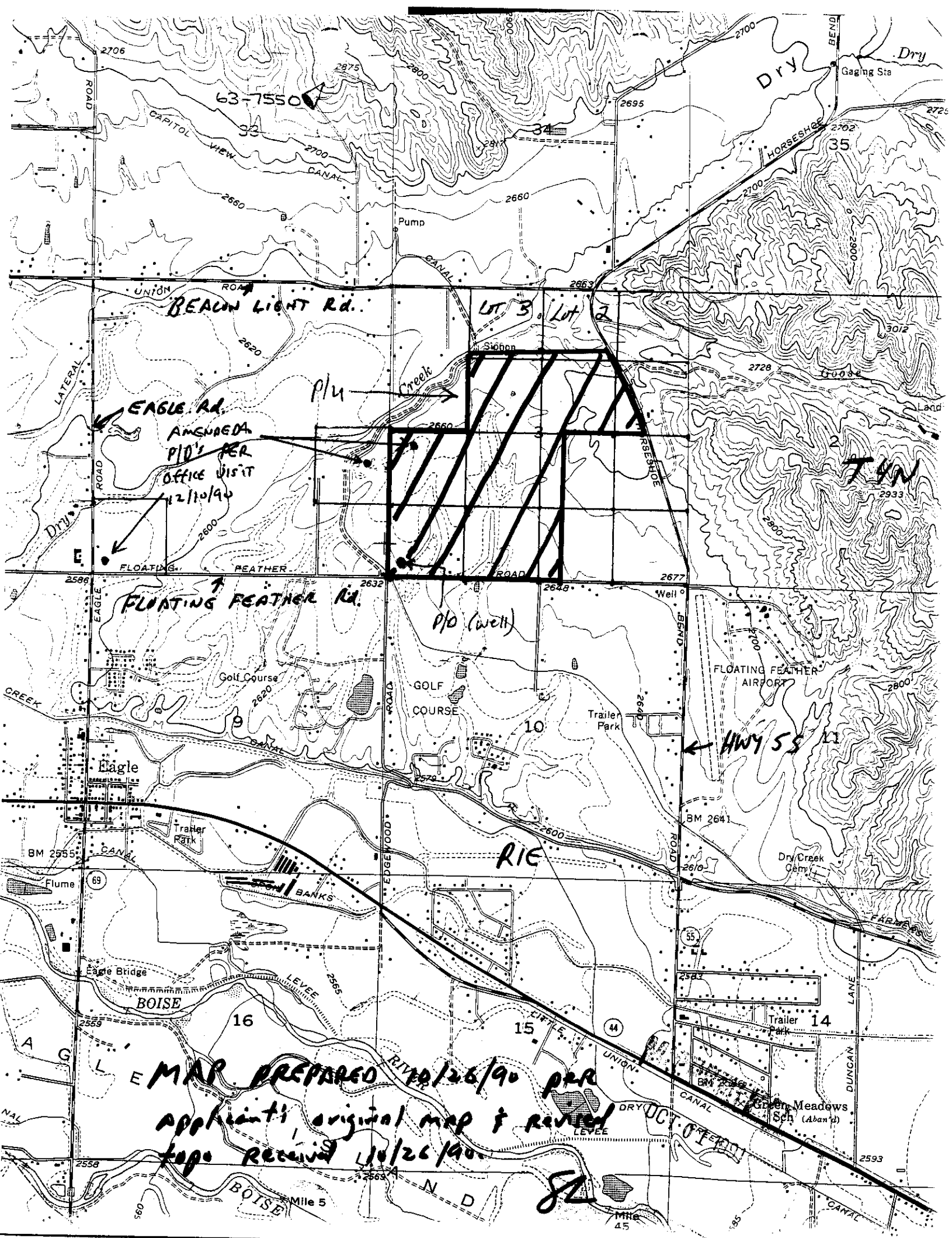
   c. The rate of diversion, if water is to be used for irrigation under this permit, when combined with all other water rights for the same land shall not exceed 0.02 cubic feet per second for each acre of land.

   d. The water right acquired under this permit if for hydropower purposes shall be junior and subordinate to all rights to the use of water, other than hydropower, within the State of Idaho that are initiated later in time than the priority of this permit and shall not give rise to any right or claim against any future rights to the use of water, other than hydropower, within the State of Idaho initiated later in time than the priority of this permit.

   e. Other:

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63-7550
BEACON LIGHT Rd.
LOT 3
Lot 2
EAGLE Rd.
AMENDED P/D's PER OFFICE VISIT 12/10/90
FLOATING FEATHER Rd.
P/O (well)
P/U
HWY 55
RIE
MAP PREPARED 10/26/90 PER applicant's original map & revised topo Received 10/26/90.
SL
Eagle
Golf Course
GOLF COURSE
FLOATING FEATHER AIRPORT
Trailer Park
Dry Creek Cem.
Eagle Bridge
BOISE
Green Meadows Sch (Aband)
Pump
Gaging Sta
Siphon
Well
Flume
BM 2555
BM 2641
Mile 5
Mile 45
T4N
R1E
R1W
Dry
Creek
CANAL
LATERAL
ROAD
EAGLE
EDGEWOOD
BANKS
LEVEE
DRY CREEK
FARMER
LANE
DUNCAN
UNION
PACIFIC
HORSESHOE
BEND
GOOSE
Land
2706
2875
2900
2695
2702
2700
2660
2663
2620
2728
3012
2933
2600
2586
2632
2648
2677
2640
2570
2610
2583
2559
2558
2565
2593
560
595
10
11
14
15
16
34
35
69
55
44

T42
R1E
S3

Sec 4

Sec. 3

Sec 2

N.89°56'W.

N.89°43'W.

S.89° 59'E.

S.0° 16'E.

S.0° 12'E.

80.75

80.80

80.08

160

160

160

80

80

80

79.55

(20.00)

79.63

(20.00)

40.00

40.00

39.03

39.10

(9.55)

39.22

39.35

39.47

39.60

(9.63)

39.80

39.95

3

2

1

4

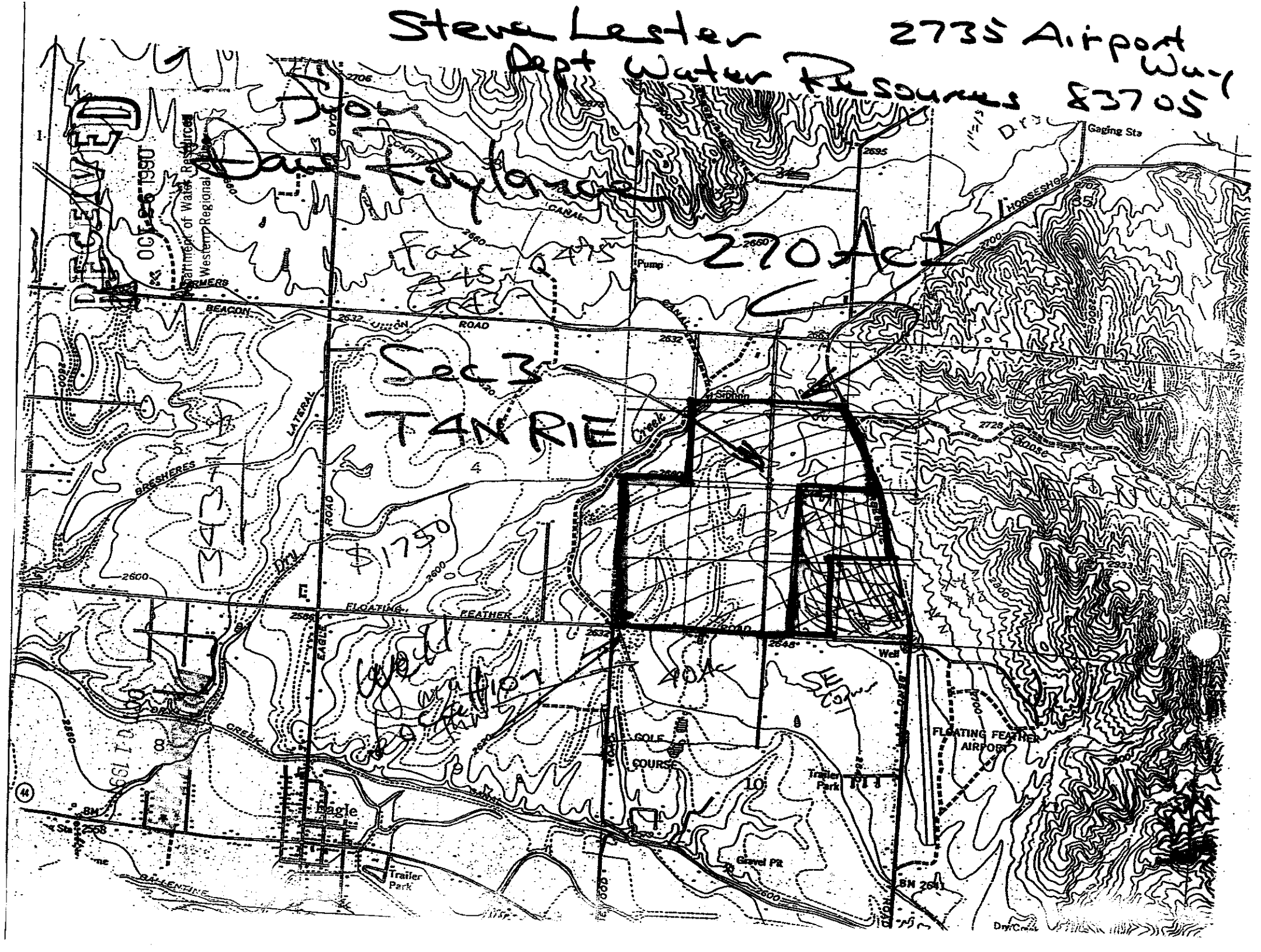
(3)

(2)

1

4

OCT 01 1991


Steve Lester
Dept Water Resources
2735 Airport Way
RECEIVED
OCT 26 1990
Dept. of Water Resources
Western Regional Office
Sec 3
T4N R1E
270 Ac
40Ac
$1750
Well
SE Corner
Fax 445-9475
BEACON FARMERS UNION ROAD
LATERAL
BRESHERES
EAGLE ROAD
FLOATING FEATHER ROAD
CANAL
Pump
Gaging Sta
HORSESHOE
Creek
Dry
GOLF COURSE
Trailer Park
FLOATING FEATHER AIRPORT
Eagle
Gravel Pit
BALLENTINE
SR 2641
Dry Creek

NOTICE OF AMENDED APPLICATION FOR PERMIT

Notice is hereby given that application No. 63-11413 in the name of Floating Feather Hills Inc. was filed on 10/22/1990 for the diversion of 5.0 cfs from groundwater with a point of diversion within T4N R1E S3 SWSWSW to be used for Irrigation, Domestic, and Fire Protection purposes from 3/15 to 11/15 (Irrigation) and 01/01 to 12/31 (Other) within portions of T4N R1E S3 LOT 2 (NWNE), S1/2NE1/4, LOT 3 (NENW), SENW, SW1/4, W1/2SE1/4.

The applicant now proposes to amend the application by changing the point of diversion to: T4N R1E S3 NWSW, SWSWSW and S4 SWSW, NESE for uses during the same period of each year and within the same portions as originally described.

Any protest against the approval of the proposed amendment must be filed with the Department of Water Resources, Western Region, 2735 Airport Way, Boise, Idaho 83705 on or before January 7, 1991.

Published in the Idaho Statesman on 12/20 and 12/27/1990.

RECEIVED
OCT 01 1991

NOTICE OF (APPLICATION FOR AMENDMENT) / AMENDED APPLICATION FOR PERMIT

Notice is hereby given that (application) (permit) No. 63-11413

in the name of Floating Feather Hills Inc.

was filed on 10/22/1990 for the diversion of 5.0 cfs

from groundwater

with a point of diversion within T4N R1E S.3 SWSWSW

to be used for irrigation, domestic, & fire protection purposes from 3/15 to 11/15 (irrigation) & 1/1-12/31 (other) within portions of T4N R1E S.3 Lot 2 (NWNE), S1/2 NE1/4, Lot 3 (NENW), SENW, SW1/4, W1/2 SE1/4

The (applicant) (permit holder) now proposes to amend the (application , (permit)

by changing the point of diversion to :

T4N R1E S.3 NWSW, SWSWSW

S.4 SWSW, NESE

for uses during the same period of each year and within the same portions as originally described.

Any protest against the approval of the proposed amendment must be filled with the Department of Water Resources, Statehouse, 450 W. State St., Boise, ID 83720 on or before _____

R. Keith Higginson
Director

Published _____

_____ and _____

RECEIVED
OCT 01 1991

The Idaho Statesman

P.O. BOX 40, BOISE, IDAHO 83707

LEGAL ADVERTISING INVOICE

Amount Due: 48.36

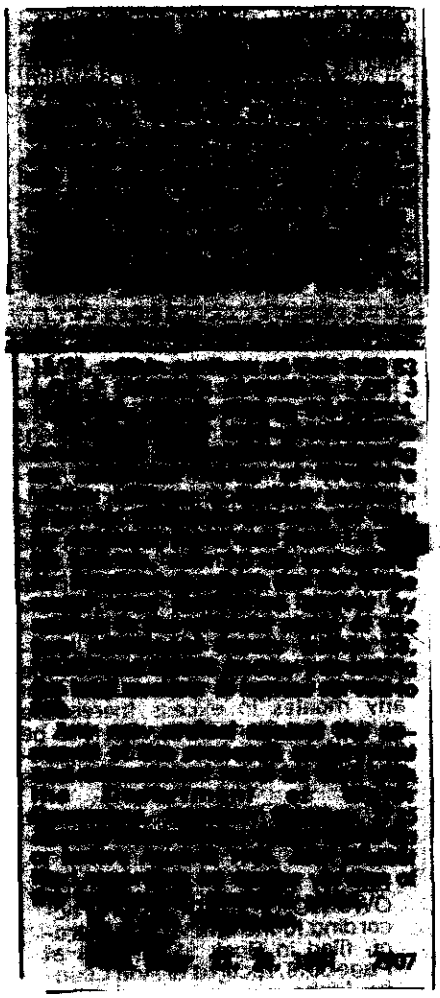
Account Number	Identification
47628	Notice of Assignment/Amendment of Appl. for Permit

Ordered By	P.O. Number	Rate	Run Dates
Gail Garrett		nt	March 21, 28, 1991

Idaho Dept. of Water Resources
Western Region
2735 Airport Way
Boise ID 83705

Estimated Inches	Real Inches
# Affidavits	Legal Number
1	9907

RECEIVED
APR 02 1991
Department of Water Resources
Western Regional Office



Denise Richardson, being duly sworn, deposes and says: That she is the Principal Clerk of The Idaho Statesman, a daily newspaper printed and published at Boise, Ada County, State of Idaho, and having a general circulation therein and which said newspaper has been continuously and uninterruptedly published in said County during a period of twelve consecutive months prior to the first publication of the notice, a copy of which is attached hereto; that said notice was published in The Idaho Statesman in conformity with Section 60-108, Idaho Code as amended, for two

☒ consecutive weekly ☐ consecutive daily ☐ single ☐ odd skip

insertion(s) beginning with the issue of Mar. 21, 19 91

and ending with the issue of Mar. 28, 19 91

Denise Richardson

STATE OF IDAHO)
ss.
COUNTY OF ADA)

On this 28th day of March in the year of 1991, before me, a Notary Public, personally appeared Denise Richardson, known or identified to me to be the person whose name subscribed to the within instrument, and being by me first duly sworn, declared that the statements therein are true, and acknowledged to me that she executed the same.

OCT 01 1991

Notary Public for Idaho
Residing at Boise, ID
My commission expires: 1/3/93

RECEIVED

DEC 18 1990

Department of Water Resources
Western Region Office

The Idaho Statesman

P.O. BOX 40, BOISE, IDAHO 83707

LEGAL ADVERTISING INVOICE

Amount Due
33.24

Account Number	Identification
47628	Correction of Application #63-11413

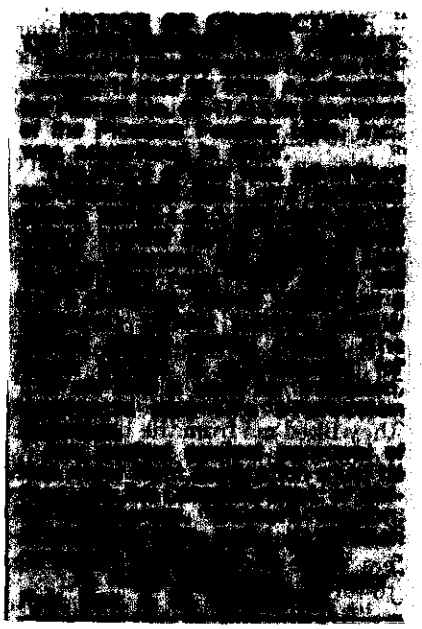
Ordered By	P.O. Number	Rate	Run Dates
Sue Taylor		NT	1990 December 6, 13

Idaho Department of Water Resources
Western Region
2735 Airport Way
Boise, ID 83705

Estimated Inches	Real Inches
# Affidavits	Legal Number
1	7146

DEC 19 1990

Department of Water Resources
Western Regional Office



Cherami J. Snow, being duly sworn, deposes and says: That she is the Principal Clerk of The Idaho Statesman, a daily newspaper printed and published at Boise, Ada County, State of Idaho, and having a general circulation therein and which said newspaper has been continuously and uninterruptedly published in said County during a period of twelve consecutive months prior to the first publication of the notice, a copy of which is attached hereto; that said notice was published in The Idaho Statesman in conformity with Section 60-108, Idaho Code as amended, for two

☒ consecutive weekly ☐ consecutive daily ☐ single ☐ odd skip

insertion(s) beginning with the issue of Dec. 6, 19 90

and ending with the issue of Dec. 13, 19 90

Cherami J. Snow

STATE OF IDAHO)
ss.
COUNTY OF ADA)

On this 13th day of December in the year of 1990, before me, a Notary Public, personally appeared Cherami J. Snow, known or identified to me to be the person whose name subscribed to the within instrument, and being by me first duly sworn, declared that the statements therein are true, and acknowledged to me that she executed the same.

OCT 01 1991

Notary Public for Idaho
Residing at Boise, Idaho
My commission expires: 12/93

The Idaho Statesman
P.O. BOX 40, BOISE, IDAHO 83707

LEGAL ADVERTISING INVOICE

Amount Due
74.28

Account Number	Identification
47628	Notice of Applications for Water Rights

Ordered By	P.O. Number	Rate	Run Dates
Gail Garrett		NT	1990 November 15, 22

Idaho Department of Water Resources
Western Region
2735 Airport Way
Boise, ID 83705

Estimated Inches	Real Inches
# Affidavits	Legal Number
1	6993

NOTICE OF APPLICATION FOR WATER RIGHT

The following application(s) have been filed to appropriate the public waters of the State of Idaho:

63-11409
TRUITT, CLYDE
3913 NEZ PERCE
BOISE, ID 83705
Source: GROUNDWATER
Diversion Pt: NWNW Sec 21 T03N R02E
Use: IRRIGATION (.030 CFS)
Total Diversion: (.030 CFS)
Date Filed: 10/5/1990
In: T03N R02E S21 NWNW
1.0 ACRES TOTAL

63-11413
FLOATING FEATHER HILLS INC.
4227 EMERALD
BOISE, ID 83706
Source: GROUNDWATER
Diversion Pt: SWSWSW Sec 3 T04N R01E
Use: IRRIGATION (2.000 CFS)
DOMESTIC (1.000 CFS)
FIRE PROTECTION (2.000 CFS)
Total Diversion: (5.000 CFS)
Date Filed: 10/22/1990
In: T04N R02E S03 Lot 2 (NWNE) SWNE SENE Lot 3 (NENW) SENW NESW NWSW SWSW SESW NWSE SWSE
200.00 ACRES TOTAL

63-11416
ADA COUNTY HIGHWAY DISTRICT
318 E. 37th ST.
BOISE, ID 83714
Source: GROUNDWATER
Diversion Pt: SWNWSW Sec 10 T03N R01E
Use: COMMERCIAL (.110 CFS)
Total Diversion: (.110 CFS)
Date Filed: 10/29/1990
In: T03N R01E S10 NWSW

63-11417
THOMAS DEVELOPMENT CO.
111 AUTO DR.
BOISE, ID 83709
Source: GROUNDWATER
Diversion Pt: NENE Sec 11 T03N R01E
Use: IRRIGATION (.020 CFS)
Total Diversion: (.020 CFS)
Date Filed: 10/11/1990
In: T03N R01E S11 NENE
0.8 ACRES TOTAL

The permit(s) will be subject to all prior water rights. Protests must be filed with the Director, Dept. of Water Resources, Statehouse Mail, Boise, Idaho 83720 on or before DECEMBER 3, 1990.

R. Keith Higginson, Director

Julie Day, being duly sworn, deposes and says: That she is the Principal Clerk of The Idaho Statesman, a daily newspaper printed and published at Boise, Ada County, State of Idaho, and having a general circulation therein and which said newspaper has been continuously and uninterruptedly published in said County during a period of twelve consecutive months prior to the first publication of the notice, a copy of which is attached hereto; that said notice was published in The Idaho Statesman in conformity with Section 60-108, Idaho Code as amended, for two

☒ consecutive weekly ☐ consecutive daily ☐ single ☐ odd skip

insertion(s) beginning with the issue of Nov. 15, 1990

and ending with the issue of Nov. 22, 1990

Julie Day

STATE OF IDAHO)
ss.
COUNTY OF ADA)

On this 22nd day of November in the year of 1990 before me, a Notary Public, personally appeared Julie Day, known or identified to me to be the person whose name subscribed to the within instrument, and being by me first duly sworn, declared that the statements therein are true and acknowledged to me that she executed the same.

Notary Public for Idaho
Residing at Boise, Id.
My commission expires: 12/93

OCT 0 1991

The Idaho Statesman

P.O. BOX 40, BOISE, IDAHO 83707

LEGAL ADVERTISING INVOICE

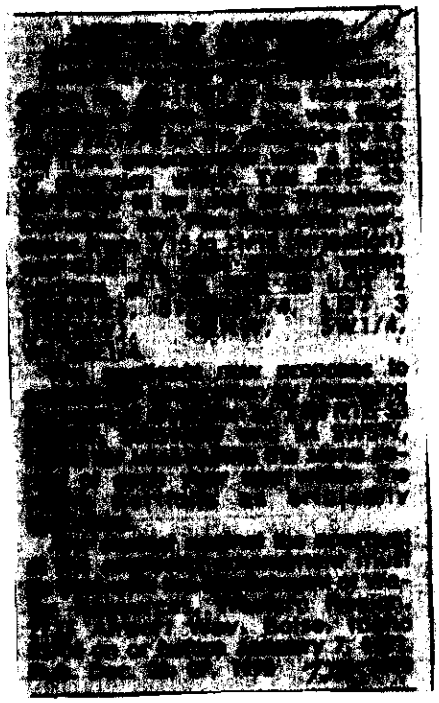
Amount Due
36.48

Account Number	Identification
47628	Amended Application for Permit

Ordered By	P.O. Number	Rate	Run Dates
Gail Garrett		nt	December 20, 27, 1990

Western Region
2735 Airport Way
Boise ID 83705

Estimated Inches	Real Inches
# Affidavits	Legal Number
1	7225



Julie Day, being duly sworn, deposes and says: That she is the Principal Clerk of The Idaho Statesman, a daily newspaper printed and published at Boise, Ada County, State of Idaho, and having a general circulation therein and which said newspaper has been continuously and uninterruptedly published in said County during a period of twelve consecutive months prior to the first publication of the notice, a copy of which is attached hereto; that said notice was published in The Idaho Statesman in conformity with Section 60-108, Idaho Code as amended, for two

☒ consecutive weekly ☐ consecutive daily ☐ single ☐ odd skip

insertion(s) beginning with the issue of Dec. 20, 19 90

and ending with the issue of Dec. 27, 19 90

Julie Day

STATE OF IDAHO)
ss.
COUNTY OF ADA)

On this 27th day of December in the year of 1990 before me, a Notary Public, personally appeared Julie Day, known or identified to me to be the person whose name subscribed to the within instrument, and being by me first duly sworn, declared that the statements therein are true, and acknowledged to me that she executed the same.

Notary Public for Idaho
Residing at Boise, Id.
My commission expires: 1-3-93

RECEIVED
DEC 31 1990
Department of Water Resources
Regional Office

OCT 01 1991

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
. North Orchard Street, P.O. Box 83720
Boise, Idaho 83720-0098

Return Service Requested

RECEIVED
SEP 22 2000
Department of Water Resources

63-11413
Proof Received.
Not remailed.
dg

PM
SEP
2000

33 USA

MICROFILMED
OCT 11 2000

CITY477* 836162008 1799 05 09/20/00
FORWARD TIME EXP RTN TO SEND
:CITY OF EAGLE
PO BOX 1520
EAGLE ID 83616-9102

RETURN TO SENDER

836162008 20

State of Idaho
DEPARTMENT OF WATER RESOURCES
1301 North Orchard Street, P.O. Box 83720, Boise, Idaho 83720-0098
Phone: (208) 327-7900 FAX: (208) 327-7866

DIRK KEMPTHORNE
GOVERNOR

KARL J. DREHER
DIRECTOR

September 18,2000

CITY OF EAGLE
CITY OF EAGLE
PO BOX 477
EAGLE ID 836160477

LAPSE NOTICE

RE: PERMIT NO. 63-11413

Dear Permit Holder:

You are hereby notified that under the provisions of Section 42-218A, Idaho Code, the above referenced permit has lapsed and is of no further force nor effect. The department provided the proper forms to you in our proof due notice dated June 30, 2000. No further construction or additional development is authorized under this permit unless it is reinstated.

The permit can only be reinstated if you submit an acceptable proof of beneficial use or an acceptable request for extension of time to the department within sixty (60) days of the mailing of this lapse notice. An acceptable proof of beneficial use submittal must include the examination fee or a completed field examination report. A request for extension of time must be accompanied by a fifty dollar ($50.00) fee.

Enclosed again for your use are a proof of beneficial use form and a request for extension of time form. Please note that only one extension of time can be granted unless the project has not been completed because of lack of a necessary approval by a government agency or by litigation which may bring title to the water in question.

L. Glen Saxton

L. GLEN SAXTON
Chief, Water Allocation Bureau

Enclosures
cc: Christopher H. Meyer (w/encl.)

Form No. 217
6/00

FOR OFFICE USE ONLY
Amt. of Fee $: _____
Receipt No. _____
Receipt By: _____
Date Receipted: _____

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

PROOF OF BENEFICIAL USE

The Idaho Department of Water Resources considers this form a statement that the permit holder(s) has/have completed all development that will occur under this permit and that water has been applied according to the provisions of the permit for the beneficial use(s) described below. This form must be accompanied by a license examination fee, when necessary, or be accompanied by a completed field examination report prepared by a certified water right examiner.

1. Permit No. _____ Telephone No. _____

2. Name of Permit Holder(s):

_____

3. Mailing Address: _____

   City_____ State_____ Zip_____

4. Source of Water: _____ If **GROUNDWATER** (well), Date Drilled: mo._____ / yr._____

   Well Driller: _____ Drilling Permit Number: _____

5. Use(s) (as authorized by the water right permit):

   Domestic (No. of households): _____ Stockwater (No. and type of stock):

   _____

   Irrigation (No. of acres): _____ Other:_____

6. Total rate of diversion and/or volume for which proof is submitted: _____ cfs **OR** _____ acre-feet

7. Measuring Device Requirement: **(refer to the approval conditions on your permit and respond accordingly)**
   (*This question is **not optional**. Please check either yes or no. Proofs returned not checked accordingly, will be considered incomplete)*

   Measuring Device: Is a measuring device required? Yes _____ **or** No _____
   Has the measuring device been installed? Yes _____ **or** No _____

8. Fee Enclosed: $ _____ (See Fee Schedule on back of the instructions for filing proof of beneficial use)

9. Person to contact to accompany the Department representative during field examination of the water system.

   Name: _____ Telephone Number: _____

   Address: _____

10. ***The information given on this form is my true statement of the extent to which the above numbered permit has been developed and water has been diverted. I agree to relinquish any undeveloped portion of the permit to the State of Idaho.***

Signature of permit holder: _____ Date: _____
(include your title, if on behalf of company of organization)

Form No. I-217 12/99

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

INSTRUCTIONS FOR FILING PROOF OF BENEFICIAL USE

HOW TO MAKE PROOF:

In order for a permit holder to fulfill the conditions of the permit obtain a water right license, the permit holder must submit the Proof of Beneficial Use form (proof) together with the license examination fee (if required) **OR** submit the proof together with a completed field examination report prepared by a certified water right examiner on or before the date set in the permit for the proof. The information submitted by the permit holder will enable the department to determine the extent of beneficial use before the license is issued. The information entered on the proof form should show the extent of actual development of the project and should correspond to that authorized by the permit. If it does not, an amendment (change) to the permit may be required.

WHAT TO DO IN CASE YOU HAVE NOT FULLY APPLIED THE WATER TO BENEFICIAL USE:

If the development authorized by the permit has not been completed in the time allowed, the permit holder may submit a request for extension of time in which to submit the proof. In order for a request for extension of time to be considered without loss of priority, it must be filed prior to the date on which proof of beneficial use is due. Each request for extension of time will be considered on its own merits.

WHAT IF YOU FAIL TO MAKE PROOF OF BENEFICIAL USE ON TIME:

If you have applied the water to beneficial use, but did not submit the proof of beneficial use on or before the date set for the proof, the permit will lapse. A lapsed permit may be reinstated within **sixty (60) days** from the date the department sends the lapse notice. In order for the department to reinstate the permit, the permit holder must show reasonable cause why the permit should be reinstated. Submission of an acceptable proof of beneficial use form within the sixty (60) day period will be considered as reasonable cause for reinstatement.

EXAMINATION FEE:

Section 42-217 and Section 42-221, Idaho Code, require an examination fee as part of the proof of beneficial use submittal if a completed field examination report prepared by a certified water right examiner is not submitted as part of the proof. The fee is based upon the rate of diversion or volume of water claimed on the proof of beneficial use form. **The appropriate fee can be determined from the license examination fee schedule on the back of these instructions.**

ISSUANCE OF LICENSE:

The department will issue a license of water right based on the determination of the amount of water beneficially used in compliance with existing law. The license will include specific information to describe the water right developed.

NOTE - You must comply with the conditions of approval of your permit or seek to have the department waive the conditions. (See the last page of the permit for conditions).

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

LICENSE EXAMINATION FEE SCHEDULE

(**C.F.S.** = cubic feet per second **AF** = acre feet)

CFS	AF	FEE
0 - 0.20	0 - 20	$50.00*
.21 - 1.00	21 - 100	100.00
1.01 - 2.00	101 - 200	125.00
2.01 - 3.00	201 - 300	150.00
3.01 - 4.00	301 - 400	175.00
4.01 - 5.00	401 - 500	200.00
5.01 - 6.00	501 - 600	225.00
6.01 - 7.00	601 - 700	250.00
7.01 - 8.00	701 - 800	275.00
8.01 - 9.00	801 - 900	300.00
9.01 - 10.00	901 - 1000	325.00
10.01 - 11.00	1001 - 1100	350.00
11.01 - 12.00	1101 - 1200	375.00
12.01 - 13.00	1201 - 1300	400.00
13.01 - 14.00	1301 - 1400	425.00
14.01 - 15.00	1401 - 1500	450.00
15.01 - 16.00	1501 – 1600	475.00
16.01 - 17.00	1601 - 1700	500.00
17.01 - 18.00	1701 - 1800	525.00
18.01 - 19.00	1801 - 1900	550.00
19.01 - 20.00	1901 - 2000	575.00
20.01 - over	2001 - over	600.00

*Checks should be made payable to the
Idaho Department of Water Resources (IDWR.)

A license examination fee is not required in connection with permits which use a ground water source **AND** have a total rate of diversion of 0.04 cfs or less or where the total volume stored is 4.0 AF per annum or less.
A license exam fee is required for ANY permit which uses surface water

Form No. 204
12/99
FILING FEE $50.00

For Office Use Only
$50 Fee Receipted by _____
Date _____
Receipt No. _____

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

REQUEST FOR EXTENSION OF TIME

TO PROVIDE ADDITIONAL TIME IN WHICH TO SUBMIT PROOF OF BENEFICIAL USE FOR A WATER RIGHT PERMIT

The Idaho Department of Water Resources will consider this form as a request that the permit holder(s) be granted an additional period of time under the provisions of Section 42-204, Idaho Code in which to complete development of a water right.

Permit No._____

Name(s) of Permit Holder:_____

Address:_____City_____State____ Zip_____

Telephone No. _____ Date Proof is Due:_____

Describe what work has been completed toward the development of this water right:
(This must be filled out! If no work has been completed, show "none".)

_____

_____

_____

_____

_____ Costing $ _____

The permit holder(s) has been unable to complete the remainder of the work for the following reasons:

_____

_____

_____

_____

Permit holder(s) request an extension to _____, 20_____.

_____
(Signature)*
**If other than permit holder, Power of Attorney must be supplied.*

ACTION OF THE DEPARTMENT OF WATER RESOURCES

IT IS HEREBY ORDERED that the above request for extension of time be

Signed this_____day of_____, 20_____. _____

Form No. I-204 12/99

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

INSTRUCTIONS FOR EXTENSION OF TIME REQUEST TO SUBMIT PROOF OF BENEFICIAL USE

If the water right development authorized by your permit is not complete and you need more time to submit proof of beneficial use of water under your permit, please read the following:

Under the provisions of Section 42-204, Idaho Code, the department can extend the proof due date of your permit only once, and then only if you can demonstrate that you have been pursuing development of the permit with due diligence.

The Request for Extension of Time form requires that you indicate the extent of development that has occurred, the cost, and the reason(s) the work has not been completed. This information must be provided in enough detail to show due diligence. Examples of work performed are: well drilled, pump installed, 10 acres now irrigated, fish propagation ponds constructed, sprinkler system purchased, etc.

If no work has been accomplished, the statutes provide that the Request for Extension of Time must be denied. **Lack of financial resources, the state of the economy or personal illness usually cannot be considered adequate reasons to approve a Request for Extension of Time.**

EXCEPTIONS TO ONLY ONE EXTENSION

The proof due date for a permit that has not been developed for one of the following reasons may be granted one or more extensions of time even though no work has been accomplished:

- When there is a lack of a required consent or final approval from a federal government agency **(evidence of delay must be submitted with the request)**, i.e. right-of-way easement or land classification such as Desert Land Entry or Carey Act.

- When litigation related to title of the water has prevented development of the permit **(evidence must be submitted with the request).**

- When the water project is of a large scale -- storage of more than 10,000 acre-feet or diversion of more than 25,000 acre-feet in one irrigation season for an irrigation project of at least 5,000 acres.

- When the water right permit is held by the United States of America **(reason for request must be submitted)**.

A non-refundable filing fee of **$50.00** must accompany the Request for Extension of Time form.

NOTE that in no case should a Proof of Beneficial Use form and a Request for Extension of Time form both be submitted. If your water development project is completed, then the proof of beneficial use form should be completed and returned. If the project is started but not completed, then the Request for Extension of Time form should be completed and returned in compliance with the guidelines above. If the project has not been initiated and does not fit into one of the exceptions listed above, then neither form should be returned and the permit will lapse and become of no further force nor effect.

State of Idaho
DEPARTMENT OF WATER RESOURCES
1301 North Orchard Street, P.O. Box 83720, Boise, Idaho 83720-0098
Phone: (208) 327-7900 FAX: (208) 327-7866

DIRK KEMPTHORNE
GOVERNOR

KARL J. DREHER
DIRECTOR

September 20, 2000

CITY OF EAGLE
CITY HALL
310 EAST STATE ST
EAGLE ID 83616

PROOF ACKNOWLEDGMENT LETTER

Re: Permit No. 63-11413

Dear Permit Holder:

The department acknowledges receipt of the proof of beneficial use form submitted to the department on August 29, 2000, for the above referenced permit. The proof was filed with the Department's regional office who did not forward the proof to this office until September 19, 2000. On September 18, 2000, I sent you a Lapse Notice, since I had not received your proof. Because the department issued a Lapse Notice in this matter, an order reinstating the permit must be issued. Therefore, the enclosed Order reinstates the permit without affecting the priority date of this permit.

Please be advised that Section 42-248, Idaho Code, requires you or the owner of this water right to maintain current ownership and address records on file with the department. Forms to file a change of ownership of a water right and/or a change in the address of the water right owner are available from any department office.

The next step in the process of developing a water right is for the department to conduct a field examination to determine and confirm the use being made of the water. If you have questions concerning the field examination, you may contact the **Western** Regional Office of the department in Boise at (208)334-2190.

MICROFILMED

OCT 1 1 2000

I apologize for any inconvenience this oversight may have caused. If you have any questions regarding processing of proof of beneficial use forms, please contact me at 327-7953.

Sincerely,

Deborah J. Gibson

Deborah J. Gibson
Administrative Assistant
Water Allocation Bureau

Enclosure
c: IDWR - Region
Christopher Meyer, Givens Pursley

MICROFILMED

OCT 1 1 2000

ANALYSIS SHEET
FOR
PROOF OF BENEFICIAL USE

Permit No. 63-11413 Reviewed by D. Gibson Date 9/20/00

GENERAL CONSIDERATIONS

Yes Name same as permit?

No Address same as permit?

Yes Proof timely received?

If not, complete calculation below.

TYPES OF USE

Municipal

Correct Uses? Yes

SOURCE OF WATER

No Surface water source

Yes Ground water source

Yes Drilling permit required?

No Copy in the file? Drilling Permit No. 63-91-W-044

____ Amount paid for permit ____ Correct?

No Well log in the file?

LICENSE EXAMINATION FEE

Yes Required?

$175 Amount Submitted

Yes Correct?

MEASURING DEVICE

Yes Required?

Yes Installed?

____ Waiver requested?

PRIORITY CALCULATION

Date proof received	8/29/00		/ /
Date proof due	9/1/00	-	/ /
No. of days late	/ /	=	/ /
Priority Date	/ /	+	/ /
New Priority Date	/ /		

DEFICIENCIES OR ACTION ITEMS

Acknowledge proof, prepare an order reinstating permit without advancing priority.

Change address

DATA ENTRY

New Address 310 East State St.
Eagle Id 83616

Proof Made 8/29/00

September 18,2000

CITY OF EAGLE
CITY OF EAGLE
PO BOX 477
EAGLE ID 836160477

LAPSE NOTICE

RE: PERMIT NO. 63-11413

Dear Permit Holder:

You are hereby notified that under the provisions of Section 42-218A, Idaho Code, the above referenced permit has lapsed and is of no further force nor effect. The department provided the proper forms to you in our proof due notice dated June 30, 2000. No further construction or additional development is authorized under this permit unless it is reinstated.

The permit can only be reinstated if you submit an acceptable proof of beneficial use or an acceptable request for extension of time to the department within sixty (60) days of the mailing of this lapse notice. An acceptable proof of beneficial use submittal must include the examination fee or a completed field examination report. A request for extension of time must be accompanied by a fifty dollar ($50.00) fee.

Enclosed again for your use are a proof of beneficial use form and a request for extension of time form. Please note that only one extension of time can be granted unless the project has not been completed because of lack of a necessary approval by a government agency or by litigation which may bring title to the water in question.

L. GLEN SAXTON
Chief, Water Allocation Bureau

Enclosures

cc: Chris Meyer - (w/ ~~enclosure~~)

MICROFILMED
OCT 1 1 2000

CERTIFICATION OF MAILING

I hereby certify that on 9/18/00 a ~~copy~~/an original of this document was deposited in the United States mail, postage prepaid addressed to the individual(s) named above.

D. G.

RECEIVED
AUG 29 2000
WATER RESOURCES
WESTERN REGION

GIVENS PURSLEY LLP

LAW OFFICES
277 North 6th Street, Suite 200
PO Box 2720, Boise, Idaho 83701
TELEPHONE: 208 388-1200
FACSIMILE: 208 388-1300

DIRECT DIAL: (208) 388-1236
EMAIL: chm@givenspursley.com

Gary G. Allen
Christopher J. Beeson
Michael C. Creamer
Thomas E. Dvorak
Roy Lewis Eiguren
Jacqueline M. Fearnside
Jeffrey C. Fereday
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Virginia L. Stukel
Conley Ward
Stephanie C. Westermeier
Robert B. White
Raymond D. Givens
James A. McClure
OF COUNSEL

Via Hand Delivery

August 29, 2000

RECEIVED
NOV 21 2000
Department of Water Resources

Mr. Gary Spackman
Mr. Steve Lester
Idaho Department of Water Resources
2735 Airport Way
Boise, ID 83705-5082

Re: City of Eagle Water Right No. 63-11413
Our File No. 5721-1

Dear Gary and Steve:

Enclosed please find the executed *Proof of Beneficial Use* form for the above-referenced water right. The proof form has been signed by the City's Engineer, Vern Brewer of Holladay Engineering Company.

The City requests that the Department undertake the field examination for this water right. Consequently, I am also submitting a check made out to the Department in the amount of $175.00 to cover the license examination fee in accordance with the current fee schedule (based on 3.15 cfs).

Please confirm that I am listed on this water right as attorney of record. I have submitted a separate letter to the Department (dated August 28, 2000) confirming my role in this regard.

If you have any questions regarding this form or the status of any of the City's water rights, please do not hesitate to contact me.

Sincerely,

Christopher H. Meyer

Encl: *Proof of Beneficial Use* form
Check for $175.00

cc: Honorable Rick Yzaguirre, Mayor
Susan E. Buxton, Esq., Counsel to the City
Dan Brown, United Water Idaho
Scott Rhead, United Water Idaho

CHM:kdt
S:\CLIENTS\5721\1\Corr\2000-08-29 CHM Ltr to Gary Spackman & Steve Lester - Re proof of beneficial use for 1991 water right.wpd

RECEIVED
AUG 30 2000
Department of Water Resources

GIVENS PURSLEY LLP

LAW OFFICES
277 North 6th Street, Suite 200
PO Box 2720, Boise, Idaho 83701
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Raymond D. Givens
James A. McClure
OF COUNSEL

August 28, 2000

NOTE

Mr. Jeff Peppersack
Manager
Water Rights Permits Section
Idaho Department of Water Resources
1301 N. Orchard St.
Statehouse Mail
Boise, ID 83720-9000

Re: City of Eagle Water Right Nos. **63-11413**, 63-12017, 63-12448
Our File No. 5721-1

Dear Jeff:

I am writing to advise the Department that I serve as special attorney of record for water matters for the City of Eagle. Please make appropriate entries in the Department's records to reflect this on each of the above-captioned water rights.

I understand that, once I am so listed, both the City and I will be contacted in the event the Department engages in any communications regarding the City's water rights.

I thank you for your attention to this matter. Please do not hesitate to call me if you have any questions.

Sincerely,

Christopher H. Meyer

8.31.00 WR 2 database updated

cc: Honorable Rick Yzaguirre, Mayor
Susan E. Buxton, Esq., Counsel to the City
Scott Rhead, United Water Idaho
Dan Brown, United Water Idaho

MICROFILMED
OCT 11 2000

CHM:kdt S:\CLIENTS\5721\1\Corr\2000-08-28 CHM Ltr to Jeff Peppersack - Re attorney of record.wpd

June 30, 2000

CITY OF EAGLE
PO BOX 477
EAGLE ID 836160477

PROOF DUE NOTICE

RE: PERMIT NO. 63-11413

Dear Permit Holder:

One of the conditions of approval of the above referenced water permit was that proof of the extent of your beneficial use must be submitted to this office on or before September 1, 2000. (See last page of your approved permit or your last approved extension request.) Enclosed is a form which when accompanied by the license examination fee or a complete field examination report prepared by a certified water right examiner may be used to submit the required proof.

If you have not fully completed your project, and you or a previous owner of this permit have not received a prior extension of time, you may request an extension of time if the delay is for reasonable cause as provided in Section 42-204, Idaho Code. If you have been prevented from proceeding by a governmental agency or by litigation which might bring title to the water in question, more than one extension of time can be granted. An extension of time request form is enclosed for your convenience.

Either an acceptable proof of beneficial use submittal or an acceptable request for an extension of time must be received by this department on or before the above described proof due date. If neither is received, the department will send you a lapse notice. Within sixty (60) days of the mailing of the lapse notice, the permit will no longer be of any force nor effect.

SINCERELY,

DEBORAH DREW-ELLIS
Administrative Assistant

Enclosures

MICROFILMED
OCT 1 1 2000

CERTIFIED MAIL
NO. Z269224948

State of Idaho
DEPARTMENT OF WATER RESOURCES
1301 North Orchard Street, P.O. Box 83720, Boise, Idaho 83720-0098
Phone: (208) 327-7900 FAX: (208) 327-7866

DIRK KEMPTHORNE
GOVERNOR

KARL J. DREHER
DIRECTOR

October 18, 1999

CITY OF EAGLE
PO BOX 477
EAGLE ID 83616-0477

RE: Permit 63-11413

Dear Permit Holder(s):

The Department of Water Resources (IDWR) has re-issued the enclosed Amendment of Permit to correct the quantity as requested in your letter dated September 17, 1999.

If you have any questions regarding this matter, please call me at 208-327-7940.

Sincerely,

Jeff Peppersack, Manager
Water Right Permits Section

JP:klt

Enclosure

MICROFILMED
NOV 12 1999

MEMORANDUM

TO: File 63-11413

FROM: Sharla

DATE: October 14, 1999

RE: Amended Permit

An "amended" Amendment of Permit approval document has been created to show the adjusted rate of diversion based on the attachments to this memo (labeled Attachments 1 – 4). The previous amendment approval had left the diversion rate at 3.25 as originally permitted as my memo of 11/19/98 explained my logic at the time for having left the total diversion rate at 3.25 cfs. However, reducing the rate by 0.10 cfs will make the "carved out" portion clearly stated and since we have had a specific request from the right holder's attorney to make this change, the database record has been changed and an amended approval document has been prepared.

MICROFILMED

NOV 1 2 1999

ADDENDUM TO 2-9-99 REVIEW MEMO FOR

APPLICATION FOR AMENDMENT OF 63-12448

Steve Lester

September 22, 1999

After discussing my early 1999 memo with Gary Spackman today, some revised thoughts are offered. Gary correctly pointed out that permit 63-12448 *does* add municipal volume to the "Lexington Hills/ Floating Feather scenario." I must admit to some confusion in the convoluted United Water and City of Eagle multiple filings that address their evolving interests in the Eagle area. Apparently I lost sight of the overall picture and came to the wrong conclusion as a result of my faulty vision.

I reviewed the original application for permit information in 63-12448. The applicant clearly desired a total of 3.25 cfs but not to exceed 1455 afa from the Lexington Hills scenario. The rate and volume limits were to include rights 63-11413, 63-12017 and 63-12448 in that scenario.

The former right was amended to municipal use with a volume limit of 540 afa (based on 900 homes at .6 afa/home internal use). Right 63-12017 remains as an amenity for Lexington Hills and Echo (or Trail) Creek subdivisions. That right was "carved out of " 63-11413 to allow the amenity within Basin 63 moratorium limitations. The permit owner gave up 5 acres of irrigation under 63-11413 to cover the 63-12017 amenity, even though the value of irrigation use in 63-11413 remains questionable.

Note that IDWR should correct 63-11413 to show 3.15 cfs, not 3.25 cfs, as correctly discussed in Attorney Meyer's 9-17-99 letter (see attached). This is an excellent time to correct that record.

The newest right, 63-12448, is a new municipal right "on top of " the other two permits.

The following table outlines the three rights. Note these items as you review the table:

- 63-11413 should be 3.15, not 3.25, cfs.
- diversion volume for 63-12017 is implied by the reduction of 5 acres in the former right.
- maximum volume for 63-12448 can range from 892.5 to 915 afa depending on the inclusion of the amenity volume from 63-12017 (1455 - 540 = 915 .... or 1455 – 540 – 22.5 = 892.5).
- combined volume for all rights may be less than 1455, depending on the extent of development and how much surface water is available as development proceeds.

Right Number	Diversion Rate (CFS)	Diversion Volume (AFA)
63-11413	3.15	540
63-12017	1.56	22.5 (implied: 5 ac x 4.5 af)
63-12448	3.25	892.5 to 915
TOTAL (maximum)	3.25	1455

Amendment of 63-12448 should be approved. Permit 63-11413 should be corrected as noted.

MICROFILMED

NOV 1 2 1999

Attachment 1 to memo dated 10/14/99

RECEIVED
SEP 20 1999
WATER RESOURCES
WESTERN REGION

GIVENS PURSLEY LLP

LAW OFFICES
277 North 6th Street, Suite 200
PO Box 2720, Boise, Idaho 83701
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James A. McClure
OF COUNSEL

September 17, 1999

Mr. Gary Spackman
Mr. Steve Lester
Idaho Department of Water Resources
2735 Airport Way
Boise, ID 83705-5082

Re: City of Eagle Water Right No. 63-11413
Our File No. 30-77

Dear Gary and Steve:

In reviewing the file for the above-captioned 1991 water right, I note what appears to be a discrepancy in the flow quantity.

The original permit was issued for 3.25 cfs. This was later reduced (administratively) to 3.15 cfs in accordance with a mitigation plan for the so-called amenity water right (No. 63-12017). The City's application for amendment of the 1991 water right failed to take note of this and identified the flow quantity as 3.25 cfs. This discrepancy was identified by Steve Lester during the course of processing, who advised us that the Department would adjust the number downward to 3.15. Yet, the final amended permit was issued for 3.25 cfs.

I have discussed this with Steve Lester, and he concurs that the water permit as issued does not reflect the correct quantity. Consequently, the City would like to have the permit re-issued stating the correct quantity. Obviously, we could simply wait for the flow quantity to be clarified at the time of proof. However, given the approaching SRBA review, it is in the City's interest to have the official file in this matter as straightforward and accurate as possible. I thank you for your attention and assistance.

MICROFILMED
NOV 12 1999

Attachment 2 to memo dated 10/14/99

Sincerely,

Christopher H. Meyer

cc: Scott Rhead
Susan Buxton

CHM:baf
S:\Clients\30\77\Corr\1999-09-17 CHM Ltr to G.Spackman & S.Lester - Re flow quantity for 1991 water right.wpd

MICROFILMED
NOV 1 2 1999

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

AMENDMENT OF PERMIT
PERMIT NO. 63-11413

This is to certify, that CITY OF EAGLE
PO BOX 477
EAGLE ID 83616-0477
has requested a change to the above captioned water right(s). This change in water right(s) is authorized pursuant to the provisions of Section 42-211, Idaho Code. The approved amendment of permit is described as follows:

SOURCE

GROUNDWATER

Priority: April 2, 1991

BENEFICIAL USE	PERIOD OF USE	RATE OF DIVERSION	ANNUAL VOLUME
MUNICIPAL	01/01 to 12/31	3.25 CFS	540.0 AF

LOCATION OF POINT(S) OF DIVERSION:

NWSW , Sec. 3, Township 04N, Range 01E
SWSW , Sec. 3, Township 04N, Range 01E
SWSW , Sec. 4, Township 04N, Range 01E
NESE , Sec. 4, Township 04N, Range 01E
ADA County

PLACE OF USE: See Remarks

CONDITIONS OF APPROVAL AND REMARKS

1. The issuance of this right does not grant any right-of-way or easement across the land of another.
2. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code.
3. After specific notification by the department, the right holder shall install a suitable measuring device or shall enter into an agreement with the department to determine the amount of water diverted from power records and shall annually report the information to the department.
4. The right holder is responsible on an on-going basis to provide a well suitable for monitoring as determined by the Department.
5. The right holder is responsible to insure that pumpage under this water right does not directly cause the water level to significantly decline in any domestic well drilled and in use prior to March 29, 1978, or to cause the water level in any other well having a prior right to exceed a reasonable pumping level, unless the right holder provides reasonable compensation or mitigation to the prior water right holder for the reduced water levels as determined by the Director.

MICROFILMED
JAN 04 1999

MICROFILMED

Attachment 3 to memo NOV date 10/14/99

(GPH Version)
Form 211
10/93

RECEIVED
FEB 05 1998
WATER RESOURCES
WESTERN REGION

Receipt No. W023428 ($50)
Accepted by SK
Date 2-5-98

RECEIVED
OCT 23 1998
Department of Water Resources

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR AMENDMENT OF A PERMIT

Applicant *The City of Eagle*[1] Phone *208-939-6813*

Address *310 E. State Street, Eagle, ID 83616*

I am the owner and holder of Permit to Appropriate the Public Waters of the State of Idaho No. *63-11413*, and request that the permit and permit map be amended and/or changed as follows:

Purpose of Amendment:

- ☐ Change point of diversion
- ☐ Add diversion point(s)
- ☒ Change place of use
- ☒ Change nature of use[2]
- ☐ Change period of use
- ☐ Other

1. Point(s) of Diversion:

Lot	¼	¼	¼	Sec.	Twp.	Rge.	County	Local name for diversion
		NE	*SE*	*§4*	*T4N*	*R1E*	*Ada*	*Hormaechea Well #1*
	SW	*SW*	*SW*	*§3*	*T4N*	*R1E*	*Ada*	*Lexington Well #1*
		NW	*SW*	*§3*	*T4N*	*R1E*	*Ada*	*Lexington Well #2*
		SW	*SW*	*§4*	*T4N*	*R1E*	*Ada*	*Hormaechea Well #2*

2. Period and nature of use: (irrigation, domestic, stockwatering, industrial, etc.)
amount ~~*2.25 cfs*~~[3] (cfs/acre feet per annum) for *municipal (per Idaho Code § 21-202B(4))* (water use) purposes from *01/01* (begin month) to *12/31* (end month)

* 3.15

3. Place of use or land to be irrigated:

Twp.	Rge.	Sec.	NE¼				NW¼				SW¼				SE¼				Totals
			NE¼	NW¼	SE¼	SW¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	

See the City of Eagle's most recent Description of Municipal Service Area, filed separately with the Department.

Total acres *not applicable*

4. a. Who owns the property at the point of diversion? *The City of Eagle*

b. Who owns the land to be irrigated at the place of use? *Not applicable to a municipal water right.*

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing: *Not applicable to a municipal water right.*

MICROFILMED
JAN 04 1999

[1] *For city officials, see City of Eagle's most recent Description of Municipal Service Area, filed separately with the Department.*

[2] *The Applicant seeks to bring this water right under the Municipal Water Right Act of 1996, Idaho Code §§ 42-202, 42-202B, 42-217, 42-219, 42-222. However, the Applicant intends to use the water solely to meet current needs and does not assert any claim for a "future need" component to the right under the Municipal Water Right Act of 1996.*

[3] *The water quantity remains subject to any and all volumetric diversion limitations reflected in the permit as originally issued to Treasure Valley Village and Floating Feather Hills, Inc. on September 11, 1991.*

MICROFILMED
NOV 12 1999

* from permit record -SK 2/19/98
Attachment 4 to memo dated 10/14/99

RECEIVED
AUG 19 1999

CONVERSATION MEMORANDUM Department of Water Resources DATE 8/18/99

FILE 63-11413

NAME OF PARTY Chris Meyer 388-1236 ← City of Eagle's attorney

EMPLOYEE JL

RE: Correct cfs?

1) Original permit 3.25 cfs.
2) Should have been 3.15 cfs in amendment issued 11/20/98 since "moratorium exemption" permit 63-12017 was carved out of former right (.10 cfs) for amenity.
3) Should amendment for 63.11413 be corrected or left alone at current 3.25 cfs? Can always fix this in licensing process.... no follow up is required at this time, although City can seek clarification if wants to.

MICROFILMED
NOV 12 1999

State of Idaho
DEPARTMENT OF WATER RESOURCES
1301 North Orchard Street, P.O. Box 83720, Boise, Idaho 83720-0098
Phone: (208) 327-7900 FAX: (208) 327-7866

December 2, 1998

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

CITY OF EAGLE
PO BOX 477
EAGLE ID 83616-0477

RE: Water Right 63-11413

Dear Permit Holder(s):

The Department of Water Resources (IDWR) has issued the enclosed Amendment of Permit approving your application to amend the water right referenced above. Please be sure to review every element of the Amendment of Permit, including the conditions of approval and remarks.

The Amendment of Permit is a **preliminary order** issued by IDWR pursuant to section 67-5243, Idaho Code. **It can and will become a final order without further action by IDWR unless a party petitions for reconsideration or files an exception and/or brief as described in the enclosed information sheet.**

Also, please note that water right owners are required to report any change of water right ownership and/or change of mailing address to the department within 120 days of the change. Failure to report these changes could result in a $100 late filing fee. Contact any office of the department or visit the department's homepage on the Internet to obtain the proper reporting form.

If you have any questions regarding this matter, you may call me at 208-327-7947.

Sincerely,

JIM JOHNSON, Manager
Water Right Permits Section

JJ:klt

Enclosure

MICROFILMED
JAN 0 4 1999

CERTIFICATE OF MAILING

I hereby certify that on the **2nd** day of **December, 1998,** I mailed a true and correct copy, postage prepaid, of the foregoing **PRELIMINARY ORDER (Amendment of Permit)** to the person(s) listed below:

WATER RIGHT 63-11413

CITY OF EAGLE
PO BOX 477
EAGLE ID 83616-0477

Kari Lynn Townsend
Secretary

MICROFILMED
JAN 0 4 1999

Responding to Preliminary Orders Issued by the Idaho Department of Water Resources

The Idaho Department of Water Resources (Department) issues water right permits, licenses, and transfers as preliminary orders pursuant to section 67-5243, Idaho Code. **A preliminary order can and will become a final order without further action of the department unless a party petitions for reconsideration or files an exception and/or brief as further described below:**

PETITION FOR RECONSIDERATION

Any party may file a petition for reconsideration of a preliminary order with the Department within fourteen (14) days of the service date of the order. The Department will act on a petition for reconsideration within twenty-one (21) days of its receipt, or the petition will be considered denied by operation of law. See section 67-5243(3), Idaho Code.

EXCEPTIONS AND BRIEFS

Within twenty-one (21) days after (a) the service date of a preliminary order, (b) the service date of a denial of a petition for reconsideration from this preliminary order, or (c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration from a preliminary order, any party may in writing support or take exceptions to any part of a preliminary order and may file briefs in support of the party's position on any issue in the proceeding. Otherwise, a preliminary order will become a final order of the Department.

If any party appeals or takes exceptions to a preliminary order, opposing parties shall have twenty-one (21) days to respond to any party's appeal. Written briefs in support of or taking exceptions to the preliminary order shall be filed with the Department. The Department retains the right to review the preliminary order on its own motion.

ORAL ARGUMENT

If the Department grants a petition to review a preliminary order, the Department shall allow all parties an opportunity to file briefs in support of or taking exceptions to the preliminary order and may schedule oral argument in the matter before issuing a final order. If oral arguments are to be heard, the Department will within a reasonable time period notify each party of the place, date and hour for the argument of the case. Unless the Department orders otherwise, all oral arguments will be heard in Boise, Idaho.

MICROFILMED
JAN 0 4 1999

CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and any other matters filed with the Department in connection with a preliminary order shall be served on all other parties to the proceedings in accordance with Rules of Procedure 302 and 303.

FINAL ORDER

The Department will issue a final order within fifty-six (56) days of receipt of the written briefs, oral argument or response to briefs, whichever is later, unless waived by the parties or for good cause shown. The Department may remand the matter for further evidentiary hearings if further factual development of the record is necessary before issuing a final order. The department will serve a copy of the final order on all parties of record.

Section 67-5246(5), Idaho Code, provides as follows:

Unless a different date is stated in a final order, the order is effective fourteen (14) days after its issuance if a party has not filed a petition for reconsideration. If a party has filed a petition for reconsideration with the agency head, the final order becomes effective when:

(a) the petition for reconsideration is disposed of; or
(b) the petition is deemed denied because the agency head did not dispose of the petition within twenty-one (21) days.

APPEAL OF FINAL ORDER TO DISTRICT COURT

Pursuant to sections 67-5270 and 67-5272, Idaho Code, if this preliminary order becomes final, any party aggrieved by the final order or orders previously issued in this case may appeal the final order and all previously issued orders in this case to district court by filing a petition in the district court of the county in which:

i. A hearing was held,
ii. The final agency action was taken,
iii. The party seeking review of the order resides, or
iv. The real property or personal property that was the subject of the agency action is located.

The appeal must be filed within twenty-eight (28) days of this preliminary order becoming final. See section 67-5273, Idaho Code. The filing of an appeal to district court does not itself stay the effectiveness or enforcement of the order under appeal.

MICROFILMED

JAN 0 4 1999

State of Idaho
DEPARTMENT OF WATER RESOURCES
1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000
Phone: (208) 327-7900 FAX: (208) 327-7866

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

TRANSMITTAL COVER SHEET

FAX NUMBER: (208) 327-7866

DATE: 11/23

TO: Ed Squires **FROM:** Sharla Curtis

DOCUMENT DESCRIPTION: Amendment approval 63-11413

COVER SHEET + 2 **PAGES**

CONTACT: _____ **IF YOU DO NOT RECEIVE ALL THE PAGES**

THANK YOU!

P.01

TRANSACTION REPORT

NOV-23-98 MON 09:36 AM

DATE START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#
NOV-23 09:34 AM	6-93623858	1'27"	3	SEND	OK	

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JAN 04 1999

GIVENS PURSLEY LLP

LAW OFFICES
277 North 6th Street, Suite 200
PO Box 2720, Boise, Idaho 83701
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Steven R. Weeks
Stephanie C. Westermeier
Raymond D. Givens
James A. McClure
OF COUNSEL

November 19, 1998

Mr. Jim J. Johnson
Manager
Water Rights Permits
Idaho Department of Water Resources
1301 N. Orchard St.
Statehouse Mail
Boise, ID 83720-9000

Re: City of Eagle Water Right Applications
IDWR Water Right No. 63-12448 (1998 municipal),
IDWR Water Right No. 63-12017 (1993 amenity)
IDWR Water Right No. 63-11413 (1991 domestic)

Our File No. 30-77

Dear Jim:

We spoke yesterday about the status of the three applications identified above. At that time, I promised you a letter, on behalf of the City of Eagle, confirming our discussions. The purpose of this letter is to resolve issues which apparently have delayed Departmental action on these applications. It is our hope that with these issues resolved the Department will be in a position to act immediately with respect to each of the above applications.

Amenity Right (63-12017)

You indicated that the Department has some concern about whether this water right can be converted to a municipal right without enlargement or expansion. It was certainly not the intention of the City of Eagle to expand or enlarge this right, and I remain convinced that expansion or enlargement could be avoided through proper

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conditions.[1] However, we do not want the Department's concerns over this right to hold up processing of the other more pressing applications.

Consequently, the City of Eagle hereby withdraws its application for amendment of Water Right No. 63-12017. This withdrawal simply means that the City may continue to use the water for water amenity purposes as described in the existing permit. If, in the future, it becomes apparent that additional flexibility in the use of this water right is important, the City may file a new application for amendment.

1998 Permit Application (No. 63-12448)

Apparently there has been some confusion regarding the intent and purpose of this application.

First, you pointed out that it is counter-intuitive that the City has applied for a municipal water right with a built-in volume limitation. I readily acknowledge that this limitation is not typical of a municipal right. The reason for the limitation is that it reflects an agreement worked out prior to filing between the City of Eagle (the "City") and United Water Idaho ("UWID").

The City and UWID are in a cooperative mode in connection with the supply of water in this area. They wish to avoid any potential problems or disputes in the future with respect to well interference. At least one of the points of diversion owned by the City is sufficiently close to the Floating Feather Well owned by UWID to raise such concerns. In order to avoid conflicts before the Department (either at the application stage or at the time of regulation), the City and UWID worked out an understanding in advance which made the City's 1998 Application (No. 63-12448) senior to UWID's 1998 application for Floating Feather (No. 63-12452), but limited the City's 1998 water right to no more than 1,455 acre-feet per annum when used in combination with its existing rights (Nos. 63-11413 and 63-12077).[2]

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[1]For instance, we have included 45 acre-feet per annum of additional "amenity" water in the calculation described below for the 1998 water right. It would seem that the 1993 amenity right could be similarly quantified.

[2]I should note that the City and UWID worked out this compromise on their own,

(continued...)

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The parties have proceeded on the basis of the City's application which contained this limitation. On this basis, UWID filed no objection to (and has supported) the City's application. Consequently, it is essential that the Department include this annual volumetric limitation in the 1998 permit.

I also wish to underscore that both the flow and volume limitations in the 1998 application are intended to operate in conjunction with the other two rights now owned by the City (63-11413 and 73-12017). Thus, the 3.25 flow limit and the 1,455 acre-foot per annum limit are intended to be cumulative limits for all three water rights.

We attached to the application a document labeled "Attachment B, City of Eagle – 1998 Water Right Application – Calculation of Diversion Rate and Annual Volume Requirements for 1800 Homes with Water Amenities." The purpose of this attachment was to explain how the 3.25 flow limit and the 1,455 volume limit were calculated. Both numbers are based on estimates of the amount of water believed necessary to serve a total of 1,800 homes.

In contrast to the 1991 domestic right (No. 63-11413), however, we did not want to quantify the limit in terms of a number of homes. Rather than argue later about how much water 900 (or 1,800) homes should use, we decided to bite the bullet now and do the quantification at the permit application stage. Thus, in the future, in order to administer this water right, there will be no need to count homes in Eagle, no need to argue about what structures and living arrangements constitute an additional "home," and no need to argue about how much water that many homes ought to use. Rather, if this permit it issued, the City of Eagle will be entitled to pump at a maximum instantaneous flow of 3.25 and up to 1,455 acre-feet per year, and the City may use the water for any municipal purpose, whether that be homes, schools, stores or what have you.

Thus, we ask that the Department issue the permit with a single set of flow and volume limitations (3.25 cfs and 1,455 acre-feet per year), without linking this back to number of homes or other factors.

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[2](...continued)
without any representation from me. My role in representing the City has been limited to the implementation of this agreement in the form of the three water right applications now before the Department.

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Attachment B to the application displays two sets of flow and volume requirements. One assumes that the 550 future (not yet planned) homes will need to be irrigated out of this right. The other assumes that the 550 future homes will be irrigated with surface water acquired separately. We have used the more conservative assumption (that irrigation needs will need to be met for the 550 new homes out of the 1998 right) in arriving at the flow and volume numbers reflected on the application. The smaller numbers are supplied only in the event that the Department feels compelled to issue the permit with alternative conditions (with and without irrigation). We believe it makes better sense, however, simply to issue the permit with the higher numbers, and let the City prove up depending on how events unfold.

Finally, I note that the calculation in Appendix B shows a flow rate of 3.23 cfs. This was rounded up slightly to 3.25 on the application. The slightly higher number should also accommodate the small amenity flow included within the calculation. The 3.25 flow number coincidentally equals the flow number on the original 1991 permit (which was later reduced to 3.15 cfs to accommodate the amenity water). Thus, the 1998 right will have very little impact on the flow rate, but will substantially increase the annual volume which may be pumped from the four points of diversion.

Transfer of 1991 Domestic Right (No. 63-11413)

I understand that the Department intended to quantify the "900 homes" limitation in this right on the basis of a calculation similar to that set out in Attachment B to the 1998 Application. Specifically, since the right, as permitted, allows for irrigation only when surface water is unavailable, the Department applied the lower volume assumption of 0.6 acre-foot-per-year-per-home (rather than 1.2 acre-feet, used when lawn irrigation is involved). This factor, times 900 homes, yields 540 acre-feet per annum.

We are comfortable with this calculation, and urge the Department to approve this transfer at once.

In closing, thank you again for your help in bringing this application process to a successful conclusion.

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JAN 0 4 1999

Sincerely,

Christopher H. Meyer

cc: The Honorable Rick Yzaguirre, Mayor of Eagle
David H. Bieter, Counsel to the City of Eagle
Ed Squires, United Water Idaho
Katherine Shiflet, United Water Idaho
Dan Brown, United Water Idaho
JoAnn C. Butler, Spink & Butler

CHM:baf
S:\Clients\30\77\Corr\1998-11-19 CHM Ltr to J.Johnson - Re explanation of application.wpd

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JAN 0 4 1999

MEMORANDUM

TO: Jim

FROM: Sharla

DATE: November 19, 1998

RE: City of Eagle Amendment of Permits

The City of Eagle has filed two applications for amendment of Permits 63-11413 and 63-12017. The permits were originally filed by the developers of Lexington Hills and Trail Creek Ranch subdivisions. The fire protection use had a year-round use season so the amendment can remain at a total of 3.25 cfs; it's the volume component that is being reduced for the change to municipal use. The volume limitation has been calculated this way: 900 homes X 0.6 af (in-house use only) = 540.0 af. The irrigation that was to have occurred under the permit was for ½ ac/home and was to be supplemental to the surface water supply from Farmers Union Canal Co. Accordingly, the volume for this portion of the right has not been added to the maximum volume limitation to be placed on the amendment approval.

The 22.5 af for the wildlife/aesthetic/recreation ponds is not being recommended. I agree that the amendment for 63-12017 should be denied. The right will then remain the same as it is now. But Attachment A included in 63-12017 explained that the reduction of 5 acres from 11413 was determined by the surface area of the waterways and ponds. It was also stated that the total capacity of the ponds would not exceed 15 acre feet. Gary's figure of 22.5 af was based on 5 acres X 4.5 af/acre standard volume; that calculation isn't applicable. Thus 63-12017 will continue to cover the ponds storage volume and allow a year-round diversion for wildlife, aesthetic and recreation uses.

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RECEIVED
OCT 23 1998
Department of Water Resources

MEMORANDUM

To: File nos. 63-11413 & 63-12017 (amendment); 63-12448 (new application) in the name of the City of Eagle
From: Gary Spackman
Date: October 16, 1998

Re: Analysis of Applications

This memorandum analyzes three related applications pending with the department: Two applications to amend permit nos. 63-11413 & 63-12017, and application for a new water right no. 63-12448.

Application for permit no. 63-11413 was the initial filing for the Lexington Hills subdivision. It was sharply contested by some of the existing ground water users located in the area of Highway 55 and Floating Feather Road. The developer was allowed to drill a well and pumped it for several weeks while monitoring several wells in the area. The pump test showed a direct hydraulic connection between the Lexington Hills well and other wells in the area. IDWR concluded that ground water availability was limited in the area near the intersection of Floating Feather Road and Highway 55, but that ground water availability increased at locations farther west. Permit no. 63-11413 was conditioned to limit ground water withdrawal, require retention of surface water rights, and require flow measurement and water metering.

Permit no. 63-11413 authorized four points of diversion. Two points of diversion were located on Lexington Hills property in Section 3, T4N, R1E. Two points of diversion were authorized on property owned by Hormachea in Section 4, T4N, R1E. The two Lexington Hills wells were constructed and are now operating. The wells on the Lexington Hills property were purposely located as far west as possible to reduce the effect on water users east of the subdivision. The permit holders wanted to drill wells on the Hormachea property because the wells were located to the west and should intercept more abundant water supplies. This is particularly true of the proposed well at the northeast corner of Floating Feather Road and Eagle Road. The Hormachea wells are not presently constructed. No more than 900 homes could be served by permit no. 63-11413.

Permit no. 63-12017 authorized use of ground water for aesthetics, wildlife, and aesthetics & wildlife storage from the same points of diversion authorized by permit no. 63-11413. The permit was issued to maintain water levels in the ponds of Lexington Hills subdivision when surface water from Farmer's Union Canal is not being delivered.

Application for water right no. 63-12448 seeks additional water to serve additional homes beyond those authorized by permit nos. 63-11413 & 63-12017. The water will be diverted from the four points of diversion identified by permit nos. 63-11413 & 63-12017.

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RECOMMENDATIONS

Amendment to Permit No. 63-11413

I recommend IDWR approve application to amend permit no. 63-11413 with the conditions of approval of the original permit. Because the right is being amended to a municipal right, the 900 home limitation is no longer an enforceable restriction. Instead, withdrawals from the well should be limited to the volume necessary for in-house use in 900 homes. I recommend limiting diversion from the two Lexington Hills wells (or any replacement wells) to 1.9 cfs and 540 ~~900~~ acre feet under this right, plus an additional 22.5 acre feet for the water flows in the Lexington Hills Ponds authorized by permit no. 63-12017 (based on five acres taken out of production as stated in the file), for a total of 202.5 acre feet annually.

G.S. 11/18/98

Amendment to Permit No. 63-12017

I recommend IDWR not approve application to amend permit no. 63-12017 to change the nature of use to municipal. The water was appropriated to maintain levels in specific ponds during the minimal evaporative months of the year. The permit should not receive municipal status because the change would allow for enlargement of the right. Only if very strictly conditioned could enlargement be prevented.

Application for Water Right No. 63-12448

I recommend IDWR approve application no. 63-12448. Eleanor Chase raised some concern about the effect of further ground water withdrawals on her earlier water rights. The applicant provided me with copies of groundwater level data for three wells in the area showing stable ground water levels, even though both the Crandlemire well (located approximately one-quarter mile west of the Eagle Rd. - Floating Feather Rd. intersection) and the Lexington Hills well have been pumping for the last 4-5 years. It appears there is sufficient ground water for the use proposed.

I recommend the same conditions as placed on permit nos. 63-11413 & 63-12017 that describe measurement, data reporting, well spacing, mitigation to other water users etc. Surface water appurtenant to the land should be delivered for irrigation of the residential lots. The requirement for mitigation for anadromous fish should also be included. Any wells must be constructed according to IDWR well construction standards. I also recommend the following condition:

Prior to diverting water under this permit, the water right holder shall locate the existing wells within one quarter mile of the proposed well near the intersection of Floating Feather Rd. -

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Eagle Rd., and shall measure water levels semiannually in one of the wells for ten years after the permit holder's well is constructed. The monitoring well shall be selected based on depth, proximity, and permission to monitor from other landowners. This condition can be waived if the water right holder cannot find a suitable well for monitoring or cannot gain access to a suitable well in the area.

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Form No. 211a
3/96

State of Idaho

Department of Water Resources

AMENDMENT ANALYSIS SHEET

RECEIVED
OCT 23 1998
Department of Water Resources

* 63-11413
Right Number 63-12017 WP File Name EAGLE_AMEND
Initial Review By: JR Date 2/20/98
Applicant City of Eagle
Purpose of Amendment: ☐ Change point of diversion. ☐ Add diversion point(s)
☐ Increase amount. ☒ Change place of use. ☒ Other Nature of use

CHECK:
☑ Description of amended point(s) of diversion No change
☑ Amount, nature and period of use. If increased, delay date of priority.
☑ Ownership of point of diversion and place of use.
☑ Map. See permit files if need old map. Application state city's service AREA already on file with IDWR.
☑ Signature (must be permit holder).
☑ Fee.
☑ Existing water rights from the same source, amended place of use.
☑ Right number(s) Both rights same old's. City also has 63-09337 for municipal use, g.w. diverted from other wells.
☑ Yes ☐ No Should amendment be advertised?
☐ Yes ☐ No Should date of priority be delayed? If yes, to what date? _____
☐ Legal notice electronically transmitted to State Office.
☑ Additional analysis information attached.

Not sure

FINAL REGIONAL PROCESSING REVIEW:
☑ Affidavit of publication received. ☑ Amendment published correctly
☐ Protest processed.
☑ Comment letters to: See attached list from files' history
☑ Copy for region file: Always include application, staff analysis sheet, legal notice, and mailing list
List other items to copy Reviewer's 2/20/98 memo
☑ Approve.
☐ Deny.

Conditions See memo dated October 16, 1998

By Gary S Date 10/21/98

STATE OFFICE PROCESSING:
☐ Amendment correct and complete: By _____ Date _____
☐ Approved copy sent to applicant and to Region. By AT Date 10-22-98

* 2 Amend. Appls. filed for separate rights from same wells. A single ad & analy. sheet covers both amend. appls.

Mailing list for 2/5/98 Amendment Appl. 63-11413 63-12017

I hereby certify that on the 2nd day of August, 1993, I mailed a true and correct copy, postage prepaid, of this document to the applicant(s) and protestant(s) listed:

Sue Taylor
Secretary

~~Certified Mail~~

~~Non-Certified Mail~~

LEXINGTON HILLS INC
AND TREASURE VALLEY VILLAGE
1815 E STONEYBROOK CT
EAGLE ID 83616

ROBERT C DAY
11034 CULDESAC WAY
BOISE ID 83703

NEIL D WILTON
632 N EDGEWOOD LN
EAGLE ID 83616

ELEANOR CHASE
70 W FLOATING FEATHER RD
EAGLE ID 83616

SAGE ACRES HOMEOWNERS ASSOC., INC.
11034 CULDESAC WAY
BOISE ID 83703

DENNIS SUTHERLAND
11036 RUNWAY DR
BOISE ID 83703

SHERL L CHAPMAN
410 S ORCHARD STE 144
BOISE ID 83705

AL THORNTON
9601 PRAIRIE RD
BOISE ID 83703

BILL PARDEW
PO BOX 699
EAGLE ID 83616

DEQ
use standard address

add these per file in 63-11413 63-12027 -SL 2/19/98

Page 2 NOTICE OF CONFERENCE

FILMED

FEB 24 1994

this copy is from 1993 mailing of conference in 63-12017, which factored in 63-11413 contracts.

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

September 28, 1998

ELENOR I CHASE
70 W FLOATING FEATHER RD
EAGLE ID 83616

Re: Application for Amendment of Permit No. 63-11413 in the Name of the City of Eagle

Dear Mr. Meyer:

This letter is to acknowledge the withdrawal of protest of the above-referenced application for amendment of water right and to cancel the conference scheduled for October 7, 1998.

The department will now continue to process the application, subject to certain conditions of approval.

If you have any questions please call this office.

Sincerely,

Gary Spackman

GS:st

CC: Applicant

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JAN 0 4 1999

Idaho Dept of Water Resources
Western Region
1735 Airport Way
Boise, Idaho 83705-5082

Eagle, Idaho
Sept. 23, 1998

RECEIVED
SEP 25 1998
WATER RESOURCES
WESTERN REGION

Mr. Gary Spackman, Regional Manager,
and/or to whomit may concern:

On Feb 5, 1998 - The City of Eagle filed with the Dept of Water Resources an application for the Dept. to amend No 63-11413 to appropriate the public waters of the State of Idaho. I protested that application. After the pre-conference hearing on Aug 4, 1998, I studied the situation to make a decision about my protest. At this time I would like to withdraw my protest.

Although I am withdrawing my protest, I still want my prior water rights protected. I do not want the Eagle municiple System to increase the amount of water they are allowed now, - in future years. My property needs water, too.

I had adequate water to water lawns during the summer of 1997 but this past Summer, Ive struggled to water the lawns but thought it may be the pumps. On Aug 5, to my surprise my water supply nearly doubled & Ive had sufficient water since. One well was 112 ft deep & my home well is over 240 ft. deep. Im now able to use 2 sprinklers instead of one - on both lawns - In 1997 my water had slowed in Aug. to the end of irrigation season. Having more water in Aug is unusual.

Also on Sept. 4, 1998, I had my first taste of chlorinated water from my well at 70 W. Floating Feather Rd. I drank part of a glass of water & set it down - About 5 min. later I drank the balance of water and it nearly burned my throat from the chlorine. It had an offtaste of water as did the domestic well water at 524 Floating Feather Rd. I had mowed the lawns and so drank from both wells - It took about 24 houes foe the water to taste good and it has, since then. I'm still concerned where the Hormachea well may be drilled. That location is in a natural drain area, subland, possible flood area possibly near ponds and closer to my well than what I would want. I'm still concerned about possible contamination.

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JAN 04 1999

My address is
Eleanor I. Chase
70 W. Floating Feather Rd.
Eagle, Idaho 83616

Sincerely yours,
Eleanor I. Chase

CONVERSATION MEMORANDUM

DATE 8/31/98

FILE 63-11413
63-12017
63-12448

NAME OF PARTY Dave Caneer 322-8992 ← of Husble Engr.?

EMPLOYEE SL

RE: USE OF Lexington Hills WELLS FOR FEATHER'S NEST SUBD.

Consultant called to see if these wells can provide backup supply to another subd. beyond Lexington Hills / Echo Ck. subds. Wants to look into city's mainline @ FL. Feather Rd. Has discussed w/ Dan Brown of Cen-Tel water, who said the mainline is ~~supplied~~ supplied via L. Hills wells.

Answer at this time is NO.

Only Rights from wells are:

permits 63-11413 } can serve L. Hills & Echo Ck.;
63-12017 } also protested amendments to change rights to municipal for City of Eagle. Hearing set for 10/7/98.

Appl. 63-12448 - pending Appl. to establish new muni right beyond limits of above 2 rights. NOT protested but appears will be considered w/ above 2 in October hearing.

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JAN 04 1999

RECEIVED
AUG 0 5 1998
WATER RESOURCES
WESTERN REGION

GIVENS PURSLEY LLP

LAW OFFICES
277 North 6th Street, Suite 200
PO Box 2720, Boise, Idaho 83701
TELEPHONE: 208 388-1200
FACSIMILE: 208 388-1201
DIRECT DIAL: 208 388-1236
EMAIL: chm@givenspursley.com

Gary G. Allen
Christopher J. Beeson
Michael C. Creamer
Thomas E. Dvorak
Roy Lewis Eiguren
Jeffrey C. Fereday
L. W. Grant III
Richard W. Jankowski
Karl T. Klein
David R. Lombardi
Kimberly D. Maloney
Kenneth R. McClure
Cynthia A. Melillo
Christopher H. Meyer
L. Edward Miller
Patrick J. Miller
Judson B. Montgomery
Ramona S. Neal
Aaron H. Nemec
W. Hugh O'Riordan
Kenneth L. Pursley
Gregory J. Vietz
Conley Ward
Steven R. Weeks
Stephanie C. Westermeier
Raymond D. Givens
James A. McClure
OF COUNSEL

RECEIVED
OCT 3 0 1998
Department of Water Resources

August 4, 1998

Mrs. Eleanor I. Chase
70 W. Floating Feather Rd.
Eagle, ID 83616

Mr. Gary Spackman
Regional Manager
Western Regional Office
Idaho Department of Water Resources
2735 Airport Way
Boise, ID 83705-5082

Re: City of Eagle Water Right No. 63-11413
Our File No. 30-77

Dear Mrs. Chase and Mr. Spackman:

I am writing to summarize where I believe we left things after our conference this morning.

Scope of Protest

First, as to the scope of Mrs. Chase's protest, we noted that Mrs. Chase has protested the City of Eagle's application for amendment of permit for Water Right No. 63-11413 (the 1991 water right), but not the City's application for permit for Water Right No. 63-12448 (the 1998 right) nor the City's application for amendment of permit for Water Right No. 63-12017 (the 1993 amenity right). The Department's record reflects that Mrs. Chase was provided personal notice of all applications, in addition to the newspaper notice.

The 1991 Water Right

In this morning's conference, Mrs. Chase identified a number of concerns and issues about water rights and her dairy operation. Many of them, however, do not relate to the application for amendment of the 1991 water right. For instance, Mrs. Chase

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expressed her sense of unfairness that she was not given an extension of time to prove up on her 1977 water right, while the City of Eagle was granted an extension of its proof date.

Other concerns of Mrs. Chase appear to have been addressed fully in my letter to her of May 26, 1998 (copy on file with the Department). For instance, Mrs. Chase's concern about the potential for expansion of the 1991 water right is acknowledged and appreciated. As pointed out in my letter, however, the proposed amendment does not seek to lift the volumetric limitations contained in the original permit. Consequently, the application entails no enlargement or expansion.

Likewise, no change is sought in the points of diversion. Consequently, the proposed amendment does not have the potential to increase well interference.

As we discussed in the conference, the scope of issues before the Department on the amendment application is limited. The 1991 permit is a valid property right which the City is entitled to change, so long as the change does not adversely impact others or the local public interest. The change sought here will have no impact on Mrs. Chase or other users.

Although Mrs. Chase was unwilling to drop her protest at this time, she did not raise any other issues which have bearing on the amendment application. We agreed to give her some additional time to think this through and discuss it with her sons. I pointed out that while the City of Eagle wishes to accommodate her, important city planning issues rest on the issuance of this amended permit. If this matter is not put to rest in a timely fashion, damages to the City and to property owners could be very substantial. Mrs. Chase should not put herself in a position of holding up the permit amendment if she cannot identify a valid legal basis for her protest.

The 1998 Water Right

As noted above, Mrs. Chase has not protested this water right application. However, Mr. Spackman noted that her concerns about well interference appear to be more directed to this application than to the 1991 amendment application.

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JAN 0 4 1999

Although the City will not stipulate to allow Mrs. Chase to enter a late protest, I did indicate that the City will continue to work with Mrs. Chase on a good neighbor basis to address her concerns about well interference.

Priority of Right

Mrs. Chase was particularly concerned that her senior water rights not be impaired. I assured her, on behalf of the City, that nothing in any of the applications pending before the Department will have the effect of making any valid rights of hers junior to those of the City.

Mrs. Chase specifically inquired as to whether a junior municipal water right (such as those involved here) would be able to call out a senior irrigation, dairy or domestic right (such as those apparently held by Mrs. Chase). I assured her that it could not.

October 7 Hearing

With the "good neighbor" goal in mind, Mrs. Chase and I agreed to meet promptly, along with Ed Squires, in order to explore options for resolution of her protest of the 1991 water right amendment, as well as her concerns over the 1998 water right. As a precaution, we agreed to set a hearing on the 1991 permit amendment application for 9:00 am on Wednesday, October 7, 1998. It is our mutual hope, however, that something may be worked out well before the October 7 hearing.

Sincerely,

Christopher H. Meyer

cc: Hon. Stan Bastian
Hon. Steve Guerber
Hon. Nancy Merrill
Hon. Lynne Sedlacek
Hon. Rick Yzaguirre
David H. Bieter

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JAN 0 4 1999

Dan Brown
JoAnn C. Butler
Mark Butler
Jean Cariaga
C. Evan Robertson
Ed Squires

CHM:baf
S:\Clients\30\77\Corr\1998-08-04 CHM Ltr to E.Chase & G.Spackman - Re follow up after conference.wpd

P 590 138 332

US Postal Service
Receipt for Certified Mail

CITY OF EAGLE
310 E STATE ST
EAGLE ID 83616

Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	$
Postmark or Date	

PS Form **3800**, April 1995

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JAN 04 1989

Stick postage stamps to article to cover First-Class postage, certified mail fee, and charges for any selected optional services *(See front).*

1. If you want this receipt postmarked, stick the gummed stub to the right of the return address leaving the receipt attached, and present the article at a post office service window or hand it to your rural carrier *(no extra charge).*

2. If you do not want this receipt postmarked, stick the gummed stub to the right of the return address of the article, date, detach, and retain the receipt, and mail the article.

3. If you want a return receipt, write the certified mail number and your name and address on a return receipt card, Form 3811, and attach it to the front of the article by means of the gummed ends if space permits. Otherwise, affix to back of article. Endorse front of article **RETURN RECEIPT REQUESTED** adjacent to the number.

4. If you want delivery restricted to the addressee, or to an authorized agent of the addressee, endorse **RESTRICTED DELIVERY** on the front of the article.

5. Enter fees for the services requested in the appropriate spaces on the front of this receipt. If return receipt is requested, check the applicable blocks in item 1 of Form 3811.

6. Save this receipt and present it if you make an inquiry.

PS Form **3800**, April 1995 *(Reverse)*

P 590 138 333

US Postal Service
Receipt for Certified Mail

CHRISTOPHER H MEYER
GIVENS PURSLEY LLP
PO BOX 2720
BOISE ID 83701

MICROFILMED
JAN 04 1999

Postage	
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	$
Postmark or Date	

PS Form **3800**, April 1995

Stick postage stamps to article to cover First-Class postage, certified mail fee, and charges for any selected optional services *(See front).*

1. If you want this receipt postmarked, stick the gummed stub to the right of the return address leaving the receipt attached, and present the article at a post office service window or hand it to your rural carrier *(no extra charge).*

2. If you do not want this receipt postmarked, stick the gummed stub to the right of the return address of the article, date, detach, and retain the receipt, and mail the article.

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4. If you want delivery restricted to the addressee, or to an authorized agent of the addressee, endorse **RESTRICTED DELIVERY** on the front of the article.

5. Enter fees for the services requested in the appropriate spaces on the front of this receipt. If return receipt is requested, check the applicable blocks in item 1 of Form 3811.

6. Save this receipt and present it if you make an inquiry.

PS Form **3800**, April 1995 *(Reverse)*

P 590 138 329

US Postal Service
Receipt for Certified Mail

ELEANOR CHASE
70 W FLOATING FEATHER RD
EAGLE ID 83616

Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	$ 2.52
Postmark or Date	

PS Form **3800**, April 1995

MICROFILMED
JAN 04 1999

Stick postage stamps to article to cover First-Class postage, certified mail fee, and charges for any selected optional services *(See front).*

1. If you want this receipt postmarked, stick the gummed stub to the right of the return address leaving the receipt attached, and present the article at a post office service window or hand it to your rural carrier *(no extra charge).*

2. If you do not want this receipt postmarked, stick the gummed stub to the right of the return address of the article, date, detach, and retain the receipt, and mail the article.

3. If you want a return receipt, write the certified mail number and your name and address on a return receipt card, Form 3811, and attach it to the front of the article by means of the gummed ends if space permits. Otherwise, affix to back of article. Endorse front of article **RETURN RECEIPT REQUESTED** adjacent to the number.

4. If you want delivery restricted to the addressee, or to an authorized agent of the addressee, endorse **RESTRICTED DELIVERY** on the front of the article.

5. Enter fees for the services requested in the appropriate spaces on the front of this receipt. If return receipt is requested, check the applicable blocks in item 1 of Form 3811.

6. Save this receipt and present it if you make an inquiry.

PS Form **3800**, April 1995 *(Reverse)*

UNITED STATES POSTAL SERVICE

First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

• Print your name, address, and ZIP Code in this box •

RECEIVED

AUG 2 0 1998

WATER RESOURCE
WESTERN REGION

DEPARTMENT OF WATER RESOURCES
2735 AIRPORT WAY
BOISE, IDAHO 83705

JAN 0 4 1999

MICROFILMED

63-1413

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write *"Return Receipt Requested"* on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

CHRISTOPHER H MEYER
GIVENS PURSLEY LLP
PO BOX 2720
BOISE ID 83701

JAN 2 1 1999

4a. Article Number

P 590 138 333

4b. Service Type

☐ Registered ☑ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

AUG 19 1998

5. Received By: *(Print Name)*

8. Addressee's Address *(Only if requested and fee is paid)*

6. Signature: *(Addressee or Agent)*

X

PS Form **3811**, December 1994 102595-97-B-0179 Domestic Return Receipt

Is your RETURN ADDRESS completed on the reverse side?

Thank you for using Return Receipt Service.

UNITED STATES POSTAL SERVICE

BOISE ID 837 PM

First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

• Print your name, address, and ZIP Code in this box •

RECEIVED

AUG 2 0 1998

WATER RESOURCES
WESTERN REGION

DEPARTMENT OF WATER RESOURCES
2735 AIRPORT WAY
BOISE, IDAHO 83705

63-11413

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "*Return Receipt Requested*" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

CITY OF EAGLE
310 E STATE ST
EAGLE ID 83616

MICROFILMED
JAN 0 4 1999

4a. Article Number

P 590 138 332

4b. Service Type

☐ Registered ☑ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery 8/14 8/16/96

5. Received By: *(Print Name)*

8. Addressee's Address *(Only if requested and fee is paid)*

6. Signature: *(Addressee or Agent)*

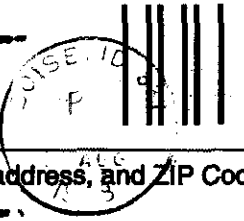
X Nancy E Merrill

PS Form 3811, December 1994 102595-97-B-0179 Domestic Return Receipt

Is your RETURN ADDRESS completed on the reverse side?

Thank you for using Return Receipt Service.

UNITED STATES POSTAL SERVICE



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

• Print your name, address, and ZIP Code in this box •

RECEIVED

AUG 2 1 1998

WATER RESOURCES
WESTERN REGION

DEPARTMENT OF WATER RESOURCES
2735 AIRPORT WAY
BOISE, IDAHO 83705

MICROFILMED
JAN 04 1999

63-11413

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write *"Return Receipt Requested"* on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

ELEANOR CHASE
70 W FLOATING FEATHER RD
EAGLE ID 83616

4a. Article Number

VB 590 138 329

4b. Service Type

☐ Registered ☑ Certified
☐ Express Mail ☐ Insured
☑ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

JAN 04 1999

5. Received By: *(Print Name)*

8. Addressee's Address *(Only if requested and fee is paid)*

6. Signature: *(Addressee or Agent)*

X Eleanor Chase

MICROFILMED

PS Form **3811**, December 1994 102595-97-B-0179 Domestic Return Receipt

Is your RETURN ADDRESS completed on the reverse side?

Thank you for using Return Receipt Service.

BEFORE THE DEPARTMENT OF WATER RESOURCES

OF THE

STATE OF IDAHO

IN THE MATTER OF APPLICATION FOR AMENDMENT OF PERMIT FOR WATER RIGHT NO. 63-11413 IN THE NAME OF THE CITY OF EAGLE.	**NOTICE OF HEARING**

On February 5, 1998, the City of Eagle filed with the Idaho Department of Water Resources (IDWR) application for for amendment of permit no. 63-11413. The application was protested by Eleanor Chase. The pre-hearing conference held by IDWR on Tuesday, August 4, 1998, did not resolve the matter of protest.

The Department has scheduled the matter for hearing on Wednesday, October 7, 1998, at 9:00 a.m. at the Department of Water Resources, upstairs conference room, 1301 N. Orchard, Boise, Idaho 83706. The hearing will be held in accordance with provisions of Chapters 2 and 17, Title 42 and Chapter 52, Title 67, Idaho Code and the adopted Rules of the Department. A copy of the rules may be obtained from the IDWR upon request. The presiding officer at the hearing will be Gary Spackman.

If you plan to offer exhibits for the record, note that IDAPA Rule of Procedure 37.01.01.606 requires that you provide a copy of exhibits to each party and to the presiding officer.

The hearing will be conducted in a facility which meets the accessibility requirements of the Americans with Disabilities Act. If you require special accommodations in order to attend, participate in or understand the hearing, please advise the department within ten (10) days prior to the hearing.

All parties to the matter will have the opportunity to respond and present information and argument on all issues involved.

Dated this 18th day of August 1998.

Gary Spackman

GARY SPACKMAN

MICROFILMED

JAN 0 4 1999

I hereby certifiy that on the 18th day of August, 1998, I mailed a true and correct copy, postage prepaid, of this document to the applicant(s) and protestant(s) listed:

Sue Taylor
Senior Secretary

CERTIFIED MAIL

CITY OF EAGLE
310 E STATE ST
EAGLE ID 83616

CHRISTOPHER H MEYER
GIVENS PURSLEY LLP
PO BOX 2720
BOISE ID 83701

ELEANOR CHASE
70 W FLOATING FEATHER RD
EAGLE ID 83616

MICROFILMED

JAN 0 4 1999

CONFERENCE AND HEARING PROCEDURE
APPLICATION FOR AMENDMENT

Section 42-211, Idaho Code, requires the department to consider the following issues in connection with an application for amendment to a permit:

1) Will the approval of the application result in the diversion and use of more water than originally permitted?

2) Will the rights of others be adversely affected thereby?

BURDEN OF PROOF

The applicant has the initial burden of proof on issues 1 and 2 above and must provide evidence for the department to evaluate these criteria.

PROCEDURE

The department generally conducts an informal conference with the parties to determine the issues and to try to settle a protested matter before a hearing is scheduled. If a hearing is held, the department will issue a written decision based on the hearing record.

CONFERENCE

The purpose of a prehearing conference is to provide the opportunity for the parties and the department to familiarize themselves with a contested matter and to attempt to resolve the matter. At the conference, the department may also formulate and simplify the issues, identify documents to avoid unnecessary proof, exchange proposed exhibits or prepared testimony, limit witnesses, discuss settlement offers, schedule hearings, establish procedure at hearings and address other matters that may expedite orderly conduct and disposition of the proceeding or its settlement.

HEARING

The department will tape record the hearing. Copies of a hearing tape are available upon written request and the payment of the cost of reproducing the tape.

MICROFILMED

JAN 0 4 1999

ROSTER OF ATTENDANCE

IDAHO DEPARTMENT OF WATER RESOURCES
2735 AIRPORT WAY, BOISE, IDAHO 83705

Re: **Application for Amendment of Permit No. 63-11413 in the Name of City of Eagle**

Place: **IDWR, 1301 N. Orchard, Boise, Idaho**

Date: **Tuesday, August 4, 1998**

Conducted by: **Gary Spackman**

NAME	ADDRESS
Christopher H. Meyer	Givens Pursley, 277 N. 6th St, Ste 200 Boise 83702
Eleanor Chase	70W, Floating Feather Rd-Eagle, Idaho 83616

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JAN 0 4 1999

BEFORE THE DEPARTMENT OF WATER RESOURCES

OF THE

STATE OF IDAHO

IN THE MATTER OF APPLICATION FOR AMENDMENT OF PERMIT NO. 63-11413 IN THE NAME OF THE CITY OF EAGLE.	**NOTICE OF CONFERENCE**

On February 5, 1998, the City of Eagle filed with the Department of Water Resources (department) an application for amendment of permit no. 63-11413 to appropriate the public waters of the State of Idaho. The application was protested by Eleanor I. Chase.

The department has scheduled a conference for the protest to be held on Tuesday, August 4, 1998, at 10:00 a.m. at the Idaho Department of Water Resources, upstairs conference room, 1301 N. Orchard, Boise, Idaho 83706. The conference will be held in accordance with provisions of Chapters 2 and 17, Title 42, and Chapter 52, Title 67, of the Idaho Code, the adopted Rules of Practice of the Department of Water Resources, and Rules 40 and 45 of the adopted Rules and Regulations of Water Appropriation of the Department of Water Resources.

The conference will be conducted in a facility which satisfies the accessibility requirements of the Americans with Disabilities Act. If you require special accommodations in order to attend, participate in or understand the conference, please advise the department within (10) days prior to the conference.

Dated this 24th day of June, 1998.

Gary Spackman

MICROFILMED
JAN 0 4 1999

I hereby certify that on the 24th day of June, 1998, I mailed a true and correct copy, postage prepaid, of this document to the applicant(s) and protestant(s) listed:

Sue Taylor
Senior Secretary

CITY OF EAGLE
310 E STATE ST
EAGLE ID 83616

CHRISTOPHER H MEYER
GIVENS PURSLEY LLP
PO BOX 2720
BOISE ID 83701

ELEANOR I CHASE
70 W FLOATING FEATHER RD
EAGLE ID 83616

MICROFILMED
JAN 0 4 1999

CONFERENCE AND HEARING PROCEDURE
APPLICATION FOR AMENDMENT

Section 42-211, Idaho Code, requires the department to consider the following issues in connection with an application for amendment to a permit:

1) Will the approval of the application result in the diversion and use of more water than originally permitted?

2) Will the rights of others be adversely affected thereby?

BURDEN OF PROOF

The applicant has the initial burden of proof on issues 1 and 2 above and must provide evidence for the department to evaluate these criteria.

PROCEDURE

The department generally conducts an informal conference with the parties to determine the issues and to try to settle a protested matter before a hearing is scheduled. If a hearing is held, the department will issue a written decision based on the hearing record.

CONFERENCE

The purpose of a prehearing conference is to provide the opportunity for the parties and the department to familiarize themselves with a contested matter and to attempt to resolve the matter. At the conference, the department may also formulate and simplify the issues, identify documents to avoid unnecessary proof, exchange proposed exhibits or prepared testimony, limit witnesses, discuss settlement offers, schedule hearings, establish procedure at hearings and address other matters that may expedite orderly conduct and disposition of the proceeding or its settlement.

HEARING

The department will tape record the hearing. Copies of a hearing tape are available upon written request and the payment of the cost of reproducing the tape.

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JAN 0 4 1999

The hearing likely will be conducted by a hearing officer appointed by the Director rather than the Director himself. If so, the hearing officer will prepare a recommended order for the Director's consideration. Parties can file exceptions to a recommended order, briefs in support of the exceptions or may request oral argument. Parties may seek judicial review of any final order issued by the Director.

Parties may, by written stipulation, waive their right to a recommended order, particularly when a shortened decision process is desirable or necessary. Such a waiver does not eliminate any rights of the parties in connection with the final order of the Director and judicial review of the order.

EXHIBITS

A party who plans to offer an exhibit as part of the hearing record must provide a copy of the proposed exhibit to the parties and to the hearing officer prior to any scheduled hearing.

AMERICANS WITH DISABILITIES ACT

Any hearing scheduled will be conducted in a facility which meets the accessibility requirements of the Americans with Disabilities Act. If you require special accommodations in order to attend, participate in or understand the hearing please advise the department within ten (10) days prior to the hearing.

MICROFILMED

JAN 0 4 1999

LAW OFFICES

GIVENS PURSLEY, LLP

277 NO. 6TH STREET • SUITE 200
P.O. BOX 2720 • BOISE, IDAHO 83701
(208) 388-1200
FACSIMILE (208) 388-1201
E-MAIL: info@givenspursley.com

DIRECT DIAL: (208) 388-1236
EMAIL: chm@givenspursley.com

GARY G. ALLEN
CHRISTOPHER J. BEESON
MICHAEL C. CREAMER
THOMAS E. DVORAK
ROY LEWIS EIGUREN
JEFFREY C. FEREDAY
L. W. GRANT III
RICHARD W. JANKOWSKI
KARL T. KLEIN
DAVID R. LOMBARDI
KIMBERLY D. MALONEY
KENNETH R. MCCLURE
CHRISTOPHER H. MEYER
L. EDWARD MILLER
PATRICK J. MILLER

JUDSON B. MONTGOMERY
TERRY L. MYERS
RAMONA S. NEAL
AARON H. NEMEC
STEVEN L. OLSEN
W. HUGH O'RIORDAN
KENNETH L. PURSLEY
GREGORY J. VIETZ
CONLEY WARD
STEVEN R. WEEKS
STEPHANIE C. WESTERMEIER

RAYMOND D. GIVENS
JAMES A. MCCLURE
OF COUNSEL

RECEIVED
MAY 27 1998
WATER RESOURCES
WESTERN REGION

May 26, 1998

Gary Spackman
Regional Manager
Western Regional Office
Idaho Department of Water Resources
2735 Airport Way
Boise, ID 83705-5082

Re: City of Eagle — Water Right Nos. 63-11413 and 63-12017
(Applications for Amendment of Permits)
Our File No. 30-77

Dear Gary:

Thank you for your letter of May 20, 1998, in which you passed along another copy of Ms. Chase's protest.

I was confused, however, because the caption to your letter referenced both of the City of Eagle's pending applications for amendment of Water Right Nos. 63-11413 and 63-12017. So far as I can determine, Ms. Chase's protest addresses only Water Right No. 63-11413. Please advise if the Department perceives that there is a current protest against Water Right No. 63-12017. I ask simply because I want to make certain that the City has addressed all issues with respect to both water rights.

I have responded separately today to Ms. Chase's protest. I copied you on that correspondence, so that the Department will have a record of our communication.

So far as I am aware, Ms. Chase's protest is the only pending protest to the application on Water Right No. 63-11413. (Ms. Nancy Little previously withdrew her protest of the application on Water Right No. 63-11413.) I am not aware of any protests

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JAN 04 1999

to the Application on Water Right No. 63-12017. If I have overlooked any protests, would you please let me know, so that the City may fully respond to any issues raised?

I will keep you posted with respect to the City's efforts to respond to the concerns raised by Ms. Chase and our efforts to resolve that protest.

Very truly yours,

Christopher H. Meyer

cc: John J. McFadden, Moore & McFadden
Edward Squires, United Water Idaho

CHM:baf
S:\Clients\30\77\Corr\1998-05-26 CHM Ltr to G.Spackman - Re Chase protest.wpd

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JAN 0 4 1999

RECEIVED
MAY 27 1998
WATER RESOURCES
WESTERN REGION

LAW OFFICES
GIVENS PURSLEY, LLP
277 NO. 6TH STREET • SUITE 200
P.O. BOX 2720 • BOISE, IDAHO 83701
(208) 388-1200
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DIRECT DIAL: (208) 388-1236
EMAIL: chm@givenspursley.com

GARY G. ALLEN
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THOMAS E. DVORAK
ROY LEWIS EIGUREN
JEFFREY C. FEREDAY
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KENNETH L. PURSLEY
GREGORY J. VIETZ
CONLEY WARD
STEVEN R. WEEKS
STEPHANIE C. WESTERMEIER

RAYMOND D. GIVENS
JAMES A. MCCLURE
OF COUNSEL

May 26, 1998

Ms. Eleanor I. Chase
70 W. Floating Feather Rd.
Eagle, ID 83616

Re: City of Eagle — Water Right No. 63-11413
(Application for Amendment to Municipal Use)
Our File No. 30-77

Dear Ms. Chase:

The Department of Water Resources forwarded to me a copy of your March 23, 1998 letter of protest on the City of Eagle's water right amendment application for Water Right No. 63-11413.

At the Department's suggestion I am writing to you directly. I don't believe that we have met before. I am a water lawyer working with the City of Eagle to help them in this matter. You may also see my name from time to time in connection with filings by United Water Idaho, another client. I very much look forward to meeting you.

By the way, if you are represented by counsel, please let me know who that is so that I may communicate with that person. Indeed, I would encourage you to seek your own counsel in this.

Now, let me turn to the points of concern raised in your letter. You expressed concern about the City changing its water right from its original domestic/irrigation/fire protection use to a year-round municipal use. I agree, that would be a concern if no conditions were imposed to ensure against enlargement. Please note, however, footnote 3 on our application, which states: "The water quantity remains subject to any and all volumetric diversion limitations reflected in the permit as originally issued to Treasure Valley Village and Floating Feather Hills, Inc. on September 11, 1991."

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JAN 04 1999

The purpose of this footnote was to address the very concern you have raised. In other words, the City of Eagle is not seeking the right to run these wells at 3.15 cfs twenty-four hours a day, three hundred sixty-five days a year. To the contrary, the City is prepared to accept conditions which ensure that no more water is used under the permit as amended than was allowed prior to the amendment. Thus, the 3.15 cfs will continue to serve as the upper limit on instantaneous pumping under the permit, but it is not an indicator of the total volume of water which may be pumped.

Indeed, to the extent that the total volume of water remains the same, and the season of use is extended to year round, the effect on the aquifer, if any, would be to spread the impact more evenly over the entire year. It is unlikely that you would be able to detect any difference. But if you can, the result would be less draw down during the irrigation season.

Next, you described the water rights you own and the uses to which they are put. I am not familiar, except very generally, with your water rights. I can assure you, however, than nothing in the City of Eagle's application for amendment of permit is designed or intended to impair any senior water rights which you may own. The volumetric limits to which the City has agreed are intended to provide you this protection. In any event, you will retain the same legal rights and remedies with respect to well interference which you had prior to the City's application for amendment of permit.

You also mentioned that you are concerned about well contamination. I can assure you that the City of Eagle shares that concern. For that reason, it has retained UWID and its sister corporation, EM^2, to drill all the wells and to manage its system. As a result, the highest standards of well construction and maintenance are observed — at considerable expense.

Finally, you noted that the original proof date for Permit No. 63-11413 was September 1, 1995. This is correct. That deadline was extended to September 1, 2000 by action of the Department on October 17, 1995.

I have tried in this letter to address each of the issues which you raised in your protest. I hope these points and, in particular, the City's agreement to a volumetric limit, help to assuage your concerns. Please let me know if there is anything more I can do to address the issues you have raised.

MICROFILMED
JAN 0 4 1999

Again, I look forward to meeting you.

Sincerely,

Christopher H. Meyer

cc: John J. McFadden, Moore & McFadden
Edward Squires, United Water Idaho
Gary Spackman, Idaho Department of Water Resources

CHM:baf
S:\Clients\30\77\Corr\1998-05-26 CHM Ltr to E.Chase - Re response to protest.wpd

MICROFILMED
JAN 0 4 1999

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

June 1, 1998

THE CITY OF EAGLE
310 E STATE ST
EAGLE ID 83616

Re: Application for Amendment of Permit No. 63-11413

Dear Applicant:

On May 20, 1998, this office sent letters to you and to Eleanor Chase acknowledging the receipt of her protest. We inadvertently sent a copy of the criteria that the Department of Water Resources must consider in approving or denying an application of a permit instead of an amendment. The following are the items we can consider at a conference in either approving or denying an application for amendment.

1. Will the approval of the application result in the diversion and use of more water than originally permitted?

2. Will the rights of others be adversely affected thereby?

Please note that Ms. Chase only protested application to amend permit no. 63-11413.

The department suggests you contact the protestant(s) directly in an effort to determine what I proposed by the application and to attempt to resolve the protest. If this office has not been advised win twenty (20) days that the protest has been resolved, the matter will be scheduled for conference. At the conference, the department will review possibilities for resolution of the protest. If the matter cannot be resolved at that time, a formal hearing will be arranged for a future date.

If we may be of assistance, please contact us.

Sincerely,

Gary Spackman

GS:st

Enclosure: Copy of protest(s)

MICROFILMED

JAN 0 4 1999

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

June 1, 1998

ELEANOR CHASE
70 W FLOATING FEATHER RD
EAGLE ID 83616

Re: Application for Amendment of Permit No. 63-11413 in the Name of City of Eagle

Dear Protestant:

On May 20, 1998, this office sent letters to you and to the City of Eagle acknowledging the receipt of your protest. We inadvertantly sent a copy of the criteria that the Department of Water Resources must consider in approving or denying an application or a permit instead of an amendment. The following are the principal items we can consider with respect to either approving or denying an application for amendment:

1. Will the approval of the application result in the diversion and use of more water than originally permitted?

2. Will the rights of others be adversely affected thereby?

Please note that you protested application to amend permit no. 63-11413 and not a related application to amend permit no. 63-12017.

The department suggests you contact the applicant(s) directly in an effort to determine what is proposed by the application and to attempt to resolve the protest.

If this office has not been advised within twenty (20) days that the protest has been resolved, the matter will be scheduled for conference. At the conference, the department will review possibilities for resolution of the protest. If the matter cannot be resolved at that time, a formal hearing will be arranged for a future date.

If we may be of assistance, please contact use.

Sincerely,

Gary Spackman

Gary Spackman

MICROFILMED
JAN 0 4 1999

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

May 20, 1998

CITY OF EAGLE
C/O CHRISTOPHER MEYER
ATTORNEY AT LAW
PO BOX 2720
BOISE ID 83701-2720

Re: Application for Amendment of Permits Nos. 63-11413 and 63-12017

Dear Applicant:

Enclosed is a protest filed against the issuance of a permit pursuant to the above-referenced application. The Idaho Department of Water Resources (IDWR) previously sent you a copy of the protest and referred to it as a petition to intervene. Upon more careful inspection, IDWR determined that the protest was timely filed.

IDWR suggests that you contact the protestants and attempt to resolve the protests.

If this office has not been advised within twenty (20) days that the protest has been resolved, the matter will be scheduled for a conference. The following are the criteria the IDWR must consider (per Section 42-203A, Idaho Code):

1. Will the proposed use reduce the quantity of water under existing water rights?
2. Is the proposed water supply insufficient for the purposes intended?
3. Is the application made in good faith or for delay or speculative purposes?
4. Has the applicant sufficient financial resources with which to complete the project?
5. Will the proposed use under this permit conflict with the local public interest?
6. Will the proposed use be contrary to conservation of water resources within the state of Idaho?

Please contact this office if you have questions regarding this procedure.

Sincerely,

Gary Spackman

GS:st

Enclosure: Copy of protest(s)

MICROFILMED
JAN 04 1999

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

May 20, 1998

ELEANOR I CHASE
70 W FLOATING FEATHER RD
EAGLE ID 83616

Re: Application for for Amendment of Permits Nos. 63-11413 and 63-12017 in the Name of The City of Eagle

Dear Protestant:

This office acknowledges receipt of your protest to the issuance of a permit pursuant to the above referenced application. IDWR suggests you contact the applicant directly in an effort to determine what is proposed by the application and to attempt to resolve the protest.

If this office has not been advised within twenty (20) days that the protest has been resolved, the matter will be scheduled for conference. The following are the criteria the IDWR must consider in either approving or denying an application or permit (Section 42-203A, Idaho Code):

1. Will the proposed use reduce the quantity of water under existing water rights?
2. Is the proposed water supply insufficient for the purposes intended?
3. Is the application made in good faith or for delay or speculative purposes?
4. Has the applicant sufficient financial resources with which to complete the project?
5. Will the proposed use under this permit conflict with the local public interest?
6. Will the proposed use be contrary to conservation of water resources within the state of Idaho?

If this office can be of further assistance, please contact us.

Sincerely,

Gary Spackman

GS:st

MICROFILMED

JAN 0 4 1999

State of Idaho
Dep't of Water Resources
Western Region
2735 Airport Way
Boise, Idaho 83715-5082

RECEIVED
MAR 25 1998
WATER RESOURCES
WESTERN REGION

Eagle, Idaho
March 23, 1998

RECEIVED
MAR 23 1998
Department of Water Resources

Dear Sirs,

I reviewed the application for amendment of permit No 63-11413 in the name of the City of Eagle and also the permit 63-11413 to appropriate water dated March 4 1991 A copy of that permit was in my files.

This is quite a change from irrigation on 2.00 cfs - Domestic was 1.25 cfs and fire protection 2.00 cfs, Evidently there was suppose to have been fire protection without the new Floating Feather well line. The total for the Eagle Municipal is 3.15 cfs for all year long instead of just part time for irrigation and fire use- That can amount to a large consumption & a municipal can go further than the Eagle boundaries.

I have lived here since 1949 and this property has been in the Chase family since 1928. I have been told that I have grandfather rights and I feel that should include my well which has rights (a municipal) 70872. My well has the original 3" pipe and is 240 ft. deep- I feel my rights should be preserved. My abstract of title is filed in my property files.

My well is used for my home, my garden, my pasture as well as cattle & the grade A DAIRY which has an established right in 1950. This is all within 500 600 ft. of where a new well is proposed. It's too close to home.

I'm concerned that a drawdown could immediately affect my water supply - the dairy and cattle uses. It could also affect my large irrigation well with State license 63 8463 - Licensed in 1977- I also don't want my well contaminated,

These are my concerns so I must protest the application for amendment of a permit-

Originally those wells were all supposed to have been constructed and put to beneficial use before Sept. 1, 1995-

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JAN 04 1999

Sincerely Yours,
Eleanor E. Chase

LAW OFFICES

GIVENS PURSLEY, LLP

277 NO. 6TH STREET • SUITE 200
P.O. BOX 2720 • BOISE, IDAHO 83701
(208) 388-1200
FACSIMILE (208) 388-1201
E-MAIL: info@givenspursley.com

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STEVEN R. WEEKS
STEPHANIE C. WESTERMEIER

RAYMOND D. GIVENS
JAMES A. MCCLURE
OF COUNSEL

RECEIVED
APR 10 1998
WATER RESOURCES
WESTERN REGION

April 9, 1998

Mr. Gary Spackman
Mr. Steve Lester
Western Region
Idaho Department of Water Resources
2735 Airport Way
Boise, ID 83705-5082

Re: City of Eagle - Municipal Water Rights
IDWR No.: 63-11413
Firm No.: 30-77

Dear Gary and Steve:

Enclosed for filing in the above-captioned matter is the letter of March 13, 1998 from Nancy Little withdrawing her protest of the City's application to amend its water right. When I called Steve today, I learned that the original had not been filed for some reason. By copy of this letter I will notify Ms. Little that her letter has been filed.

Best regards,

Christopher H. Meyer

Encl.: Copy of Letter from Nancy Little

cc: Nancy Little
John J. McFadden
Katherine Shiflet
H. Scott Rhead
Edward Squires

MICROFILMED
JAN 04 1999

Nancy Little
421 South Latah, Boise, Idaho 83705 (208) 344-4965

March 13, 1998

Mr. Gary Spackman
Idaho Department of Water Resources
Western Region - Manager
2735 Airport Way, Boise, Idaho 83705-5082

Dear Mr. Spackman:

I am writing concerning my protest of the City of Eagle's Application for Amendment of Permit # 63-11413. Thank-you for your prompt reply to my letter of protest. I have spoken with Ed Squires of United Water Idaho about my concerns. My protests stem from my belief that we do not have enough water to supply additional population growth in the Boise River Valley. Our flood irrigation allotment from New York Canal is less each year. Although I do not intend to follow through with my formal protest, to hearing, I appreciate this opportunity to lodge an informal protest with your Department. I request that IDWR pay closer attention to how much water you are allocating. I also suggest that you lower the protest filing fees. The present fees are financial hardship for elderly persons living on fixed incomes.

I withdraw my protests of The City of Eagle's Application for Permit #63-11413.

Sincerely,
Nancy Little

X Nancy L Little Date: 3-13-98

cc: Ed Squires

MICROFILMED
JAN 0 4 1999

LAW OFFICES

GIVENS PURSLEY & HUNTLEY LLP

A LIMITED LIABILITY PARTNERSHIP

277 NO. 6TH STREET • SUITE 200

P.O. BOX 2720 • BOISE, IDAHO 83701

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STEVEN R. WEEKS
STEPHANIE C. WESTERMEIER

RAYMOND D. GIVENS
JAMES A. MCCLURE
OF COUNSEL

March 17, 1998

Mr. Gary Spackman
Mr. Steve Lester
Western Region
Idaho Department of Water Resources
2735 Airport Way
Boise, ID 83705-5082

RECEIVED
MAR 18 1998
WATER RESOURCES
WESTERN REGION

Re: City of Eagle - Municipal Water Rights
IDWR Nos.: 63-11413 and 63-12017
GPH No.: 30-77

Dear Gary and Steve:

I am writing in connection with the City of Eagle's two pending Applications for Amendment of Permit for Water Right Nos. 63-11413 and 63-12017. As you know, the City is seeking to convert both of these rights to municipal use within the City's evolving service area.

Avoidance of enlargement

As the applications state, it is the intention of the City that these amendments not constitute any improper enlargement or expansion of use. In this way, the City believes that the applications may be granted without risk of injury to any other water right holder. The City anticipates that the new permits will need to be conditioned to achieve this result.

One approach is the possibility of imposing an annual volumetric cap which mimics the effect of the place and purpose of use restrictions under the original permits. For instance, although Water Right No. 63-11413 contains no express annual volumetric limit, such a limit is implicit in the "domestic" and "irrigation" uses for which the right was issued. One approach might to quantify these into an annual volume limit using standard use statistics, and impose that limit as a condition of the new permit.

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JAN 04 1999

On the other hand, there may be better approaches which the Department has in mind. I would appreciate an opportunity to explore these ideas with you at your convenience.

Recombination of rights

I have discussed previously with Steve the possibility that we might want to consider recombining the two water rights—essentially trading in two permits for one larger one. (As you know, the rights began as one. Water Right No. 63-12017 was authorized on the basis of mitigation in form of reducing Water Right No. 63-11413. Thus, the latter right was, in a sense, carved out of the former.)

I would like to explore with you the implications of such a recombination, and, in particular, how they might be quantified. Such a recombination might simplify and facilitate the administration of these rights. However, the City would not want to lose any flexibility it has under the present arrangement.

I will look forward to hearing your thoughts on this.

Best regards,

Christopher H. Meyer

cc: Norman C. Young
Phillip J. Rassier
John J. McFadden
Katherine Shiflet
H. Scott Rhead
Edward Squires

CHM:baf
G:\DATA\CLIENTS\30\77\CORR\1998-03-17 CHM LTR TO G.SPACKMAN & S.LESTER (IDWR) - RE APPLICATIONS FOR AMENDMENT.DOC

MICROFILMED
JAN 0 4 1999

MICROFILMED

IDAHO DEPARTMENT OF WATER RESOURCES
WATER RIGHT PROFILE REPORT

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM	USE PERIOD TO	DIVERSION RATE	DIVERSION VOLUME
C	CITY OF EAGLE	04/08/1998	MUNICIPAL	01/01	12/31	3.250 CFS	
					TOTAL DIVERSION:	3.250 CFS	

Water Source: GROUNDWATER Tributary to: Stage: APPLICATION

Point(s) of Diversion:	TO4N R01E S03	NWSW	SWSWSW	ADA County
	S04	SWSW	NESE	ADA County

Pou County:

Other Water Rights with Same Point(s) of Diversion with Stage (Includes All Sources):
63-11413 63-12017

Remarks: GEN Water bearing zone to be appropriated for 2 existing and 2 proposed (aka Lexington Hills & Hormaechea) wells is from 215 to 602 feet. Total use of these wells is proposed to be 3.25 cfs via all rights. Applicant agrees to mitigate consumptive use in the future as needed.

Dates: App. Received: 04/07/1998 Priority Date: 04/08/1998
Proof Due Date: Proof Made Date:
Exam Made Date: Exam Sent to S.O.:
Licensed Date:

Misc: Water District Number: Field Exam Fee:

Comments: Date: 05/14/1998 User-ID: SLESTER Subject: IDWR PROCESSING NOTES
No future needs component of municipal use is sought. Combined rate for all rights from these wells is limited to 3.25 cfs by applicant's information. This is a new right filed for same wells (2 existing = Lexington Hills, 2 proposed = Hormaechea) listed in protested applications for amendment of permits 63-11413 and 63-12017.
CONTACT PERSON = CHRISTOPHER MEYER (ATTORNEY FOR CITY) @ Givens Pursley firm.

Common System

Audit: 05/14/98 SLESTER

63-11413 Lex. Hills/Cedar Ck. Subd. } now city of Eagle
63-12017 " " amenity use
63-12448 City of Eagle Munic. use

JAN 04 1999 -SL 5/14/98

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

April 7, 1998

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

CITY OF EAGLE
C/O CHRISTOPHER MEYER
PO BOX 2720
BOISE ID 83701-1200

Re: Application for Amendment of Permit No. 63-11413 in the Name of the City of Eagle

Dear Mr. Meyer:

Enclosed for your information is a copy of a protest letter in the above-referenced matter from Eleanor I. Chase.

IDWR will consider Ms. Chase's attempted protest as a petition to intervene. This letter seeks your comment regarding the document filed by Ms. Chase.

Please feel free to contact this office if you have questions.

Sincerely,

Gary Spackman

Gary Spackman

GS:st

JAN 0 4 1999

LAW OFFICES

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CONLEY WARD
STEVEN R. WEEKS
STEPHANIE C. WESTERMEIER

RAYMOND D. GIVENS
JAMES A. MCCLURE
OF COUNSEL

RECEIVED
MAR 2 6 1998
WATER RESOURCES
WESTERN REGION

March 22, 1998

Mr. Gary Spackman
Western Region
Idaho Department of Water Resources
2735 Airport Way
Boise, ID 83705-5082

Larry S. Peterson, P.E.
Regional Manager Engineering
Boise Regional Office
Division of Environmental Quality
1445 North Orchard
Boise, ID 83706-2239

Re: City of Eagle - Municipal Water Rights
IDWR Nos.: 63-11413 and 63-12017
GPH No.: 30-77

Dear Messrs. Spackman and Peterson:

This responds to Mr. Peterson's letter of March 11, 1998 to Mr. Spackman. Although I am the signatory of the water right applications in question, I was not copied on this correspondence, but received a copy of Mr. Peterson's letter from the City of Eagle.

Mr. Peterson raised questions about wells designated as "Hormaechea Nos. 1 and 2" in Application for Amendment of Permit for Water Right No. 63-11413. By the way, the same designation appears on the companion Application for Amendment of Permit for Water Right No. 63-12017, which was filed on the same day.

I offer the following responses and observations:

1. The wells designated "Hormaechea Nos. 1 and 2" have not been drilled, and there are no immediate plans to drill these wells. These are alternate points of diversion which have been listed on the underlying water rights since their inception.

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2. We have found the terminology for these wells to be confusing. Consequently, future filings and communications respecting these wells will refer to them as follows:

Location of point(s) of diversion:

Lot	¼	¼	¼	Sec.	Twp.	Rge.	County	Former name	Current name
	SW	*SW*	*SW*	*§3*	*T4N*	*R1E*	*Ada*	*Lexington Hills Well #1*	*City of Eagle Well #1*
		NW	*SW*	*§3*	*T4N*	*R1E*	*Ada*	*Lexington Hills Well #1*	*City of Eagle Well #2*
		SW	*SW*	*§4*	*T4N*	*R1E*	*Ada*	*Hormaechea Well #2*	*City of Eagle Well #3*
		NE	*SE*	*§4*	*T4N*	*R1E*	*Ada*	*Hormaechea Well #1*	*City of Eagle Well #4*

This "City of Eagle" terminology reflects the fact the water rights, existing well sites and associated infrastructure now belong to the City of Eagle.

3. The City of Eagle will comply with all requirements of the Idaho Department of Water Resources as well as the Division of Environmental Quality before proceeding with construction of any new wells.

I hope that this fully responds to the questions raised by Mr. Peterson. If anyone at DEQ or IDWR has any further questions or concerns, please feel free to pick up the telephone. My direct dial is listed above.

Sincerely,

Christopher H. Meyer

MICROFILMED
JAN 0 4 1999

cc: Rick Yzaguirre, Mayor, City of Eagle
Mark Butler, City of Eagle
John J. McFadden, Attorney, City of Eagle
Bill Freeman, DEQ
Katherine Shiflet, UWID
H. Scott Rhead, UWID
Edward Squires, UWID

CHM:baf
G:\DATA\CLIENTS\30\77\CORR\1998-03-22 CHM LTR TO L.PETERSON & G.SPACKMAN - RE DEQ COMMENT.DOC

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JAN 0 4 1999

The Idaho Statesman

P.O. BOX 40, BOISE, IDAHO 83707-0040

LEGAL ADVERTISING INVOICE

Amount Due
$132.25

Account Number/Trans. #	Identification		
047628	NOTICE OF APPLICATION FOR AMENDMENTS OF WATER RIGHTS		
Ordered By	**P.O. Number**	**Rate**	**Run Dates**
SUE TAYLOR		NT	MARCH 5, 12, 1998

STATE OF IDAHO - WESTERN REGION
DEPARTMENT OF WATER RESOURCES
2735 AIRPORT WAY
BOISE, IDAHO 83705

Estimated Inches	Real Inches
# Affidavits	**Legal Number**
1	9823

RECEIVED
MAR 19 1998
WATER RESOURCES
WESTERN REGION

JANICE HILDRETH, being duly sworn, deposes and says: That she is the Principal Clerk of The Idaho Statesman, a daily newspaper printed and published at Boise, Ada County, State of Idaho, and having a general circulation therein and which said newspaper has been continuously and uninterruptedly published in said County during a period of twelve consecutive months prior to the first publication of the notice, a copy of which is attached hereto; that said notice was published in The Idaho Statesman in conformity with Section 60-108, Idaho Code as amended, for TWO

☐ consecutive weekly ☒ single
☐ consecutive daily ☐ odd skip

insertion(s) beginning with the issue of MARCH 5, 1998
and ending with the issue of MARCH 12, 1998

Janice Hildreth

STATE OF IDAHO)
) ss.
COUNTY OF ADA)

On this 12TH day of MARCH in the year of 1998, before me, a Notary Public, personally appeared JANICE HILDRETH known or identified to me to be the person whose name subscribed to the within instrument, and being by me first duly sworn, declared that the statements therein are true, and acknowledged to me that she executed the same.

JANIE MCDIE NOTARY PUBLIC STATE OF IDAHO

Janice McDie
Notary Public for Idaho
Residing at: Boise, Idaho
My commission expires: 5703

MICROFILMED
JAN 04 1999

LEGAL NOTICE ✓ at

NOTICE OF APPLICATIONS FOR AMENDMENTS OF WATER RIGHTS

Notice is given that **City of Eagle**, 310 E. State St., Eagle ID 83616 has applied to the Department of Water Resources to Change the Place of Use and Nature of Water of the following water rights in Ada County pursuant to I.C. § 42-211 (locations listed are in T4N R1E):

RECORDED RIGHTS

Permit #63-11413, ground water, priority date 4-2-1991 for 3.15 cfs for 4 wells in SW 1/4 S3 and S 1/2 S4. Use includes domestic for 900 homes, irrigation of 195 acres and fire protection for Lexington Hills and Trail Creek Subdivisions in S3. The wells are known as Lexington Hills #1 & 2 and Hormaechea #1 & 2. Irrigation is limited to supplemental use (primary irrigation is from canal water).

Permit #63-12017, priority date 4-21-1993 for the same wells for 1.56 cfs and 15 af (ponds) for aesthetic, recreation and wildlife amenity in the same subdivisions. This right is based on a minor reduction of irrigation in right #63-11413.

PROPOSED AMENDMENTS

Two amendment applications have been filed to change the use in both rights to municipal within city's service area. Municipal use will be limited to annual volume implied by current uses listed in the rights, which is equivalent to about 900 homes and supplemental irrigation of 195 acres associated with the homes. Additional water &/or more wells than listed in the permits are not proposed by these amendments.

The permits will be subject to all prior water rights. Any protest against approval of the proposed amendments must be filed with the Department of Water Resources, Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 together with a protest fee of $25.00 on or before March 23, 1998. Each right must be protested separately ($25 per protested right). The protestant must also send a copy of the protest(s) to the applicant.

Karl J. Dreher, Director

Pub. March 5,12, 1998

9823

RECEIVED
MAR 19 1998
WATER RESOURCES
WESTERN REGION

STATE OF IDAHO
DIVISION OF
ENVIRONMENTAL QUALITY

RECEIVED
MAR 13 1998
WATER RESOURCES
WESTERN REGION

1445 North Orchard, Boise, ID 83706-2239, (208) 373-0550

Philip E. Batt, Governor

March 11, 1998

Gary Spackman
Idaho Department of Water Resources, Western Region
2735 Airport Way
Boise, ID 83705-5082

RE: City of Eagle
Application for Amendment of Permit No. 63-11413

Dear Mr. Spackman:

We have reviewed the referenced application, but do not fully understand the purpose or intent. Because the application refers to "Hormaechea Well #1" and "Hormaechea Well #2," we assume that the water right for these wells is to be transferred to the City for municipal use. We have no comment regarding the transfer of water right. However, if wells, existing or proposed, are to be added to the City's water system, they will be considered part of a public water system, and therefore must be reviewed and approved by the Division of Environmental Quality. We offer the following general comments:

1. If wells exist, the City's consultant must submit driller's logs and other records to show that construction meets state standards and the wells are protected from contamination. We may ask for water quality testing. If well construction and water quality are acceptable, we will ask the City's consultant to submit a site evaluation.

2. The consultant must submit a thorough site evaluation for every well, existing or proposed. We have developed a *Public Water System Well Site Evaluation* checklist to provide guidance, and will transmit the checklist to the applicant or consultant, on request. We will review the well site evaluations, conduct site inspections, and issue written site approvals, if warranted.

3. If new wells are proposed, plans and specifications must be prepared by a registered professional engineer and submitted to this office. Plans must be accompanied by DEQ's *General Checklist* and the appropriate section of the *Water System Checklist*, available on request. We will conduct a joint review with IDWR, request revisions as required, and issue written approval. We request that no drilling permit be issued until we have had an opportunity to review the drilling program and well specifications.

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JAN 04 1999

4. The applicant's consultant must provide this office with detailed plans and specifications for well houses, piping, and the distribution system, along with the appropriate sections of the *Water System Checklist*. Plans must be prepared by a professional engineer.

Please call Bill Freeman at 373-0166 if you have questions regarding these comments, or via e-mail at *wfreeman@deq.state.id.us*.

Sincerely,

Larry S. Peterson, P.E.
Regional Manager-Engineering

c: Bill Freeman, Boise Regional Office
Mark Butler, City of Eagle
Source File #14
Reading File

MICROFILMED
JAN 0 4 1999

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

March 9, 1998

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

NANCY LITTLE
421 S LATAH
BOISE ID 83705

Re: Application for Amendment of Permit No. 63-11413 in the Name of City of Eagle

Dear Protestant:

This office acknowledges receipt of your protest to the approval of the above-referenced application for amendment. The following are the principal items we can consider with respect to either approving or denying an application for amendment:

1. Will the approval of the application result in the diversion and use of more water than originally permitted?

2. Will the rights of others be adversely affected thereby?

The department suggests you contact the applicant(s) directly in an effort to determine what is proposed by the application and to attempt to resolve the protest.

If this office has not been advised within twenty (20) days that the protest has been resolved, the matter will be scheduled for conference. At the conference, the department will review possibilities for resolution of the protest. If the matter cannot be resolved at that time, a formal hearing will be arranged for a future date.

If we may be of assistance, please contact use.

Sincerely,

Gary Spackman

Gary Spackman

GS:st

MICROFILMED
JAN 0 1999

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region. 2735 Airport Way. Boise. Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

March 9, 1998

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

THE CITY OF EAGLE
310 E STATE ST
EAGLE ID 83616

Re: Application for Amendment of Permit No. 63-11413

Dear Applicant:

Enclosed is a protest filed against the above-referenced application for amendment. You should be aware that the following are the items we can consider at a conference in either approving or denying an application for amendment.

1. Will the approval of the application result in the diversion and use of more water than originally permitted?

2. Will the rights of others be adversely affected thereby?

The department suggests you contact the protestant(s) directly in an effort to determine what I proposed by the application and to attempt to resolve the protest. If this office has not been advised win twenty (20) days that the protest has been resolved, the matter will be scheduled for conference. At the conference, the department will review possibilities for resolution of the protest. If the matter cannot be resolved at that time, a formal hearing will be arranged for a future date.

If we may be of assistance, please contact us.

Sincerely,

Gary Spackman

Gary Spackman

GS:st

Enclosure: Copy of protest(s)

MICROFILMED
JAN 0 4 1999

3/96

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
NOTICE OF PROTEST

This form may be used to file a protest with the department under sections 42-108B, 42-203A, 42-203C, 42-211, 42-222 and 42-224, Idaho Code. The department will also accept a timely protest not completed on this form if it contains the same information.

1. Matter being protested permit #63-11413 taking of water proposed Amendment for 900 homes + 195 acres

2. Name of protestant Nancy Little

3. Protestant's representative for service (If different than protestant)

None

4. Service mailing address 421 S Utah Boise 83705

5. Service telephone no. 344-4965

6. Basis of protest (including statement of facts and law upon which the protest is based)

I have water rights! No growth in Lexington Hills 1st 2nd Quail Creek Subdivision (permit #63-11413) & 3rd & Homecha Subdivision #2 is - C.V.O.R? Reduction of irrigation (my rights) #63-11418

(additional pages may be attached to describe the nature of the protest)

7. What would resolve your protest? no more growth - we have a limited amount of water & it will be impossible to supply all & each & everyone with clean water - my rights are at all!

I hereby, acknowledge that if I, or my designated representative, fails to appear at any regularly scheduled conference or hearing in the matter of which I have been notified at the address above, the department may issue a notice of proposed default against me in this matter for failure to appear. I also verify that I have served a copy of this protest upon the applicant. I have problems (health) & may not be able to attend but I still have my rights.

Signed this 3 day of Jan, 1998.

Nancy Little
PROTESTANT

PROTESTANT'S REPRESENTATIVE

MICROFILMED
JAN 04 1999

NOTE:

A protestant is required to timely file a protest with the department together with a $25.00 protest fee for each application being protested in order for the protestant to be considered a full party by the department. In addition, the department's Rule of Procedure, IDAPA 37.01.01203, requires a protestant to send a copy of a protest to the applicant.

INSTRUCTIONS

1. The matter being protested must be clearly identified. A typical matter is identified by the application number such as "Application for Permit No. #63-1143 in the name of [illegible]" or "Application for Transfer No. 62-211 in the name of _____."

2. Show the name of the protestant. Only one (1) protestant may be shown per protest form. If this protest form is signed by more than one person, the hearing officer will consider the first signer as the official protestant and the representative for service of documents.

3. If the protestant is represented by an attorney or other authorized representative, show the representative's name. The department then will serve documents on the representative and upon the protestant if specifically requested.

4. Show the address where the department is to serve the documents. This should be the address of the authorized representative unless the protestant does not designate a representative.

5. Show the telephone number of the authorized representative unless the protestant does not designate a service representative.

6. Specifically describe the nature of the protest.

7. Describe the relief being sought by the protestant.

FOR DEPARTMENT USE ONLY

Received by _____ Date _____ Time _____

$25.00 fee Receipted by _____ # _____ Date _____

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JAN 0 4 1999

LEGAL NOTICE objection

NOTICE OF APPLICATIONS FOR AMENDMENTS OF WATER RIGHTS

Notice is given that City of Eagle, 310 E. State St., Eagle ID 83616 has applied to the Department of Water Resources to change the Place of Use and Nature of Wated of the following water rights in Ada County pursuant to I.C. § 42-211 (locations listed are in T4N R1E):

RECORDED RIGHTS

Permit #63-11413, ground water, priority date 4-2-1991 for 3.15 cfs for 4 wells in SW 1/4 S3 and S 1/2 S4. Use includes domestic for 900 homes, irrigation of 195 acres and fire protection for Lexington Hills and Trail Creek Subdivisions in S3. The wells are known as Lexington Hills #1 & 2 and Hormaechea #1 & 2. Irrigation is limited to supplemental use (primary irrigation is from canal water).

Permit #63-12017, priority date 4-21-1993 for the same wells for 1.56 cfs and 15 af (ponds) for aesthetic, recreation and wildlife amenity in the same subdivisions. This right is based on a minor reduction of irrigation in right #63-11413.

PROPOSED AMENDMENTS

Two amendment applications have been filed to change the use in both rights to municipal within city's service area. Municipal use will be limited to annual volume implied by current uses listed in the rights, which is equivalent to about 900 homes and supplemental irrigation of 195 acres associated with the homes. Additional water &/or more wells than listed in the permits are not proposed by these amendments.

The permits will be subject to all prior water rights. Any protest against approval of the proposed amendments must be filed with the Department of Water Resources, Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 together with a protest fee of $25.00 on or before March 23, 1998. Each right must be protested separately ($25 per protested right). The protestant must also send a copy of the protest(s) to the applicant.

Karl J. Dreher, Director

Pub. March 5,12, 1998

9823

3-6-1998

I object to the above taking of water!

Nancy Little

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JAN 0 4 1999

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

March 4, 1998

To: Interested Parties on the Attached List

Re: Application for Amendment of Permit No. 63-11413 in the Name of The City of Eagle

Dear Sir:

Enclosed is a copy of the above-referenced application for amendment of a permit which may be of interest to you. Please review the application and submit any comments you may have.

This office normally completes the processing of an application within a six-week period and is required to take final action shortly thereafter, however, if your agency desires to file a formal protest against the approval of this application(s), your written protest along with the $25.00 protest fee must be received in this office by March 23, 1998.

If you have any questions regarding the application, please contact this office.

Sincerely,

Gary Spackman

Gary Spackman

GS:st

Encl.

CC: Eagle Water Co.

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JAN 0 4 1999

LEXINGTON HILLS INC
& TREASURE VALLEY VILLAGE
1815 E STONEYBROOK CT
EAGLE ID 83616

ROBERT C DAY
11034 CULDESAC WY
BOISE ID 83703

NEIL D WILTON
632 N EDGEWOOD LN
EAGLE ID 83616

ELEANOR CHASE
70 W FLOATING FEATHER RD
EAGLE ID 83616

SAGE ACRES HOMEOWNERS ASN
11034 CULDESAC WY
BOISE ID 83703

DENNIS SUTHERLAND
11036 RUNWAY DR
BOISE ID 83703

SHERL CHAPMAN
410 S ORCHARD STE 144
BOISE ID 73705

AL THORNTON
9601 PRAIRIE RD
BOISE ID 83706

BILL PARDEW
PO BOX 699
EAGLE ID 83616

DEPT HEALTH & WELFARE
DIV OF ENV QUALITY
BOISE REGIONAL OFFICE
PO BOX 83720
BOISE ID 83706

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JAN 0 4 1999

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Karl J. Dreher, Director

Published in the Idaho Statesman on March 5 and 12, 1998.

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JAN 0 4 1999

MEMORANDUM

TO: FILE

FROM: STEVE LESTER

DATE: FEBRUARY 20, 1998

RE: AMENDMENT APPLICATIONS FOR 63-11413 & 63-12017

The City of Eagle (CITY) filed two amendment applications to change the nature and place of use of these rights currently limited to the Lexington Hills and Trail Creek Subdivisions. CITY also filed an assignment of permit for 63-12017 that was forwarded to the S.O. on February 5, 1998.

The applications recognize the volumetric limits of the permits and do not include a "future needs" component. Additionally, the applications refer to a CITY service area map already on file with IDWR (at S.O.?). CITY attorney Chris Meyer is the contact person for the amendments. He indicated that CITY intends to file a new application for permit to provide more coverage from these P/D's than currently allowed by the two rights.

After a long and contentious protest/hearing process, 63-11413 was approved for domestic use for 900 homes, supplemental irrigation of 195 acres associated with the subdivisions and fire protection. Stringent conditions of approval were included to address potential injury issues. Later, a complaint was filed by Al Thornton of Sage Acres regarding illegal use of the Lexington Hills wells for an amenity in the development. IDWR investigation eventually resulted in 63-12017. That newer right for an amenity was allowed under the Boise River Moratorium by decreasing consumptive use in 63-11413 by five acres of irrigation. The net result was that 63-11413 was reduced from 3.25 to 3.15 cfs and permit 63-12017 was approved for the amenity, but all consumptive use of the ground water system derived from 63-11413 as originally permitted (900 homes, 195 acres).

DELAY IN DATE OF PRIORITY

Permit 63-11413 allows 1.25 cfs for domestic use all year, 1.90 cfs for the irrigation season and 1.90 cfs for fire protection all year, for a total of 3.15 cfs. Given the concerns reflected in the monitoring and mitigation conditions of approval, municipal use should be restricted to 3.15 cfs during the irrigation season and 1.25 cfs outside of the irrigation season if the same priority date is maintained (disregard fire protection in this discussion since that is a unique component).

Use in excess of 1.25 cfs outside of the irrigation suggests at least an advancement in the priority date and perhaps additional monitoring conditions to prevent injury.

Permit 63-12017 includes year around diversion but only for the water amenity. Because this right is based on a reduction of the other right, it is difficult to see what municipal value that 63-12017 offers. The right has no meaning in a municipal context and might best be left unchanged except for the assignment.

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VOLUME LIMITS FOR MUNICIPAL USE

Since the first right is the basis for all of the water use in both rights, municipal use should be limited to the implied volume limits in 63-11413. What are those limits? Assume that the right is developed to its limits of 900 homes and 190 acres. The following calculations would then be applicable.

diversion system capacity = 3.15 x 365 x 1.9835 = 2280.5 afa

domestic div vol: Vr = 900 x .6 = 540 afa

Vd = 1.25 x 365 x 1.9835 = 905 afa

allow 540 afa for domestic diversion volume

irrigation div vol: Vr = 190 x 4.5 = 855 afa

Vd = 1.90 x 246 x 1.9835 = 927.1 afa

allow 855 afa for irrigation diversion volume

total diversion vol: allow 540 + 855 = 1395 afa, which system can support.

However, irrigation is limited by conditions of approval to supplemental use. Primary irrigation is provided from a pressurized system using Farmers Union Canal water. What is a reasonable estimate of supplemental use volume? Perhaps a reasonable figure is approximately 30% of full irrigation volume based on 25% for the two months (1/4 of irrigation season) before and after canal water is usually available plus a 5% to 10% increment for the time when canal water is being used. This estimate would provide about 300 $\pm$ afa under the irrigation portion of the right.

The volume limit in a municipal scenario based on the above would be about 840 afa (540 + 300). It is difficult to be more precise than that in this situation. It appears from the conditions of approval in 63-11413 that yard irrigation should be limited to land already served by surface water. Additionally, ground water use should not replace surface water use. A new right for the system should be secured to cover customers not already served by surface water and/or customers beyond the limits implied in 63-11413.

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RECOMMENDATIONS

Amendment of 63-11413 looks approvable provided that the following items are included:

1. Municipal use includes 3.15 cfs during the irrigation season but 1.25 cfs for the rest of the year. The priority date remains the same.

2. Municipal use includes a reasonable diversion volume cap implied by the permit (assume full development by proof due date?) somewhere in the neighborhood of 850 afa. This also assumes that approval recognizes the full potential of the right instead of the development completed at the time the amendment was filed.

3. Amendment approval is contingent upon, or at least linked to, approval of a new permit for municipal use from these P/D's to cover users beyond the scope of 63-11413. *

Amendment of 63-12017 does not appear to have much meaning. However, it could be approved for municipal use if that new use is limited to the water amenity in Lexington Hills and Trail Creek Subdivisions. Otherwise, the amendment looks more like a new appropriation.

* 4/9/98 update
New Appl. for permit filed 4/7/98 on these wells. Filed in name of City of Eagle & C. Meyer.
Appl (no # yet) = 3.25 cfs (to include 98 afa per request)

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CONVERSATION MEMORANDUM

DATE 2/5/98

FILE 63-11413
63-12017

NAME OF PARTY Chris Meyer, Attorney

EMPLOYEE SL

RE: CONTACT PERSON FOR 2 AMENDMENT APPLS -

Attorney will handle questions etc. - Contact

Chris Meyer
given Pursley & Huntley
~~342-6574~~ 388-1200

Also, city will file Appl. for permit ~~from~~ for this system to provide more coverage beyonds limits imposed by condition of Approval in existing rights.

Assignment filed with -12017.

2/20/98

Left msg for Chris -
Appl. forms revised to match w.r. Rights
63-11413 = 3.15 Not 3.25 cfs
63-12017 includes 1.56 cfs div. to Storg.

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JAN 04 1999