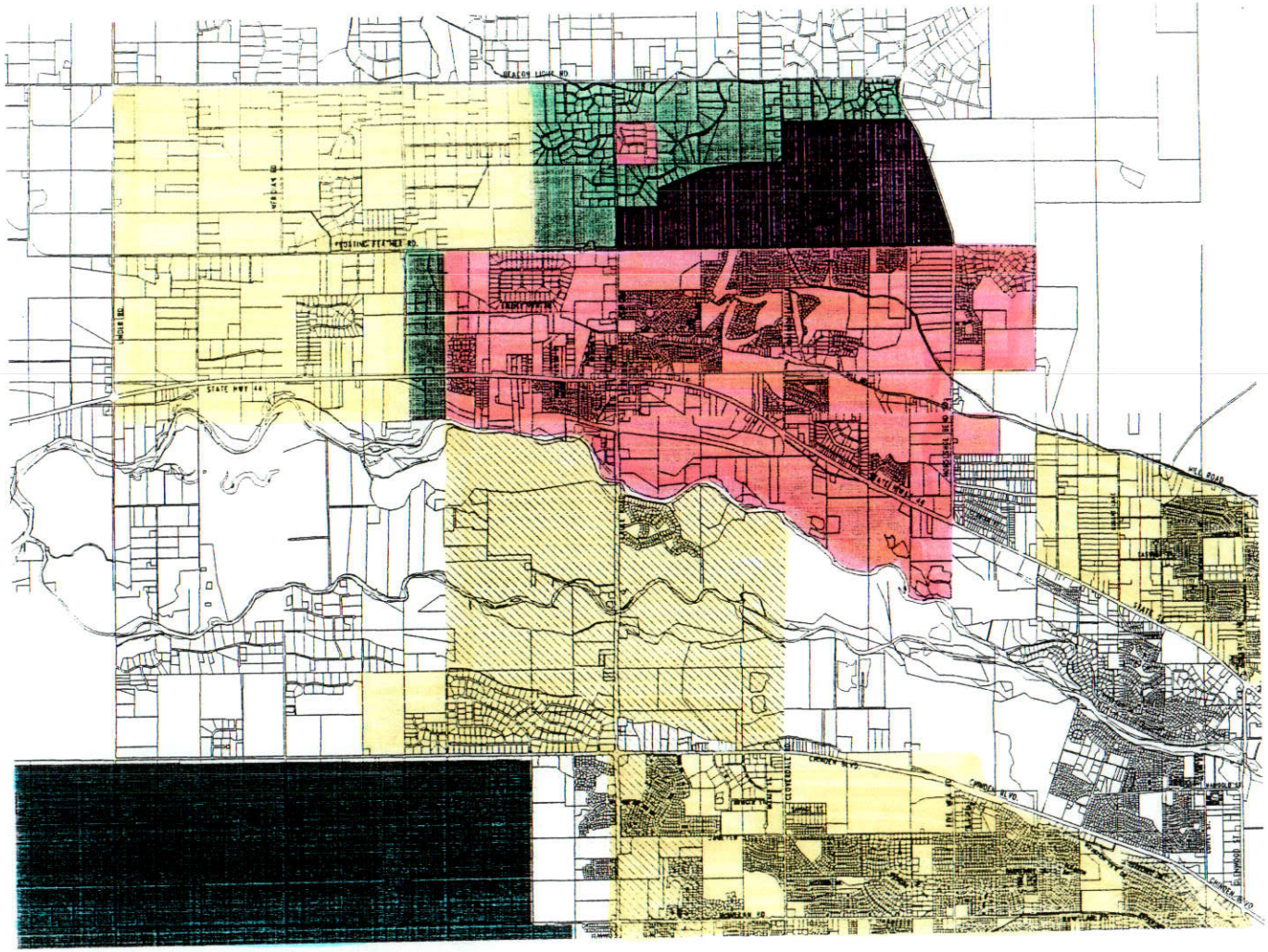


UNITED WATER IDAHO

CITY OF EAGLE WATER SYSTEM

CITY OF MERIDIAN

RAINTREE MUTUAL WATER COMPANY

EAGLE WATER COMPANY

UNDEFINED

United Water

NO SCALE

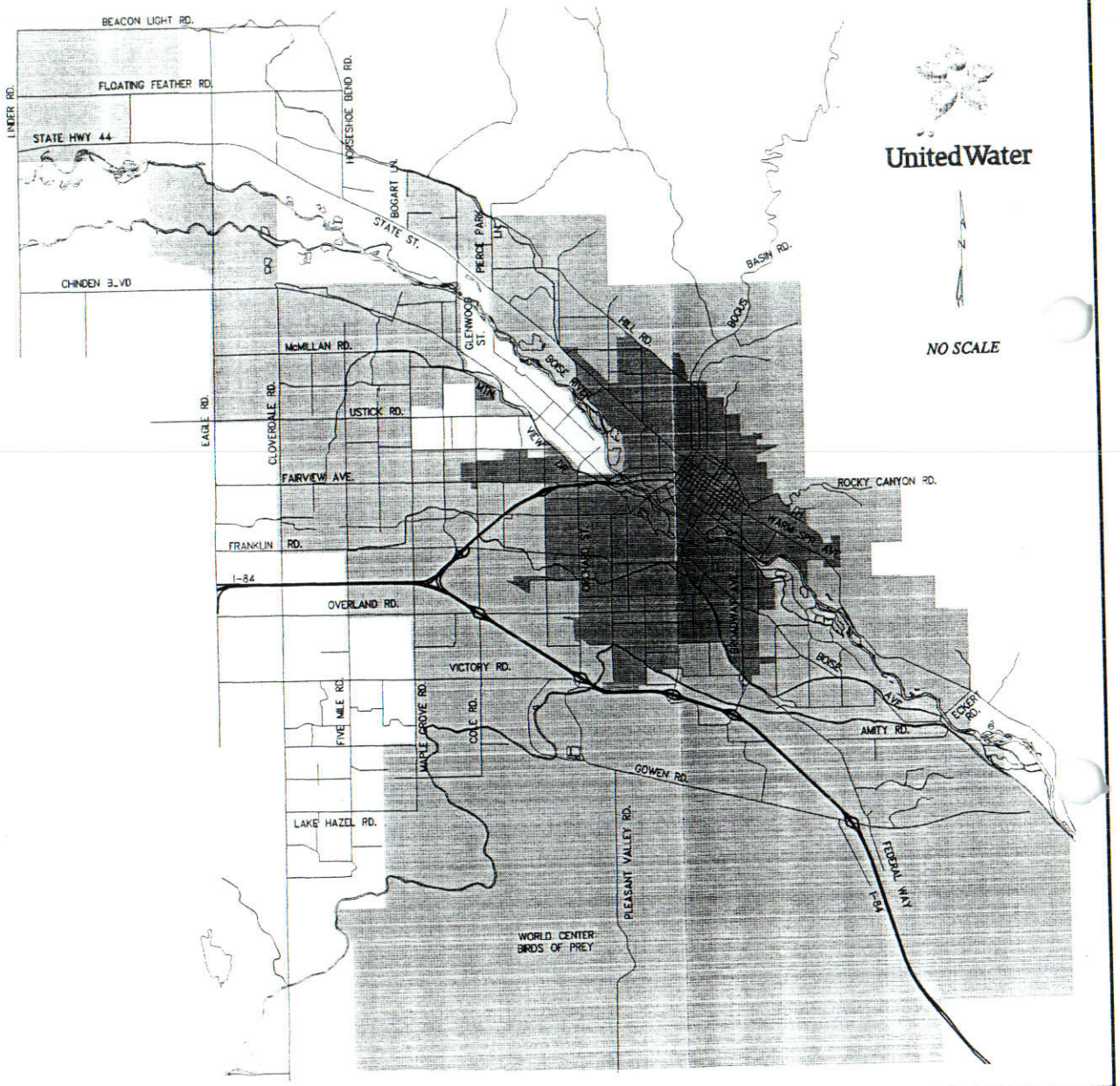
DEC 10 1997

THIS DRAWING IS TO BE USED ONLY FOR REFERENCE PURPOSES AND UNITED WATER IS NOT RESPONSIBLE FOR ANY INACCURACIES HEREIN CONTAINED.

REVISED DATE: 11-06-97

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United Water Idaho's changing
service boundary as
certified by the
Idaho Public Utilities Commission



BOUNDARY - JULY 1958

BOUNDARY - 1996

MICROFILMED
DEC 10 1997

THIS DRAWING IS TO BE USED ONLY FOR REFERENCE PURPOSES AND UNITED WATER IS NOT RESPONSIBLE FOR ANY INACCURACIES HEREIN CONTAINED.

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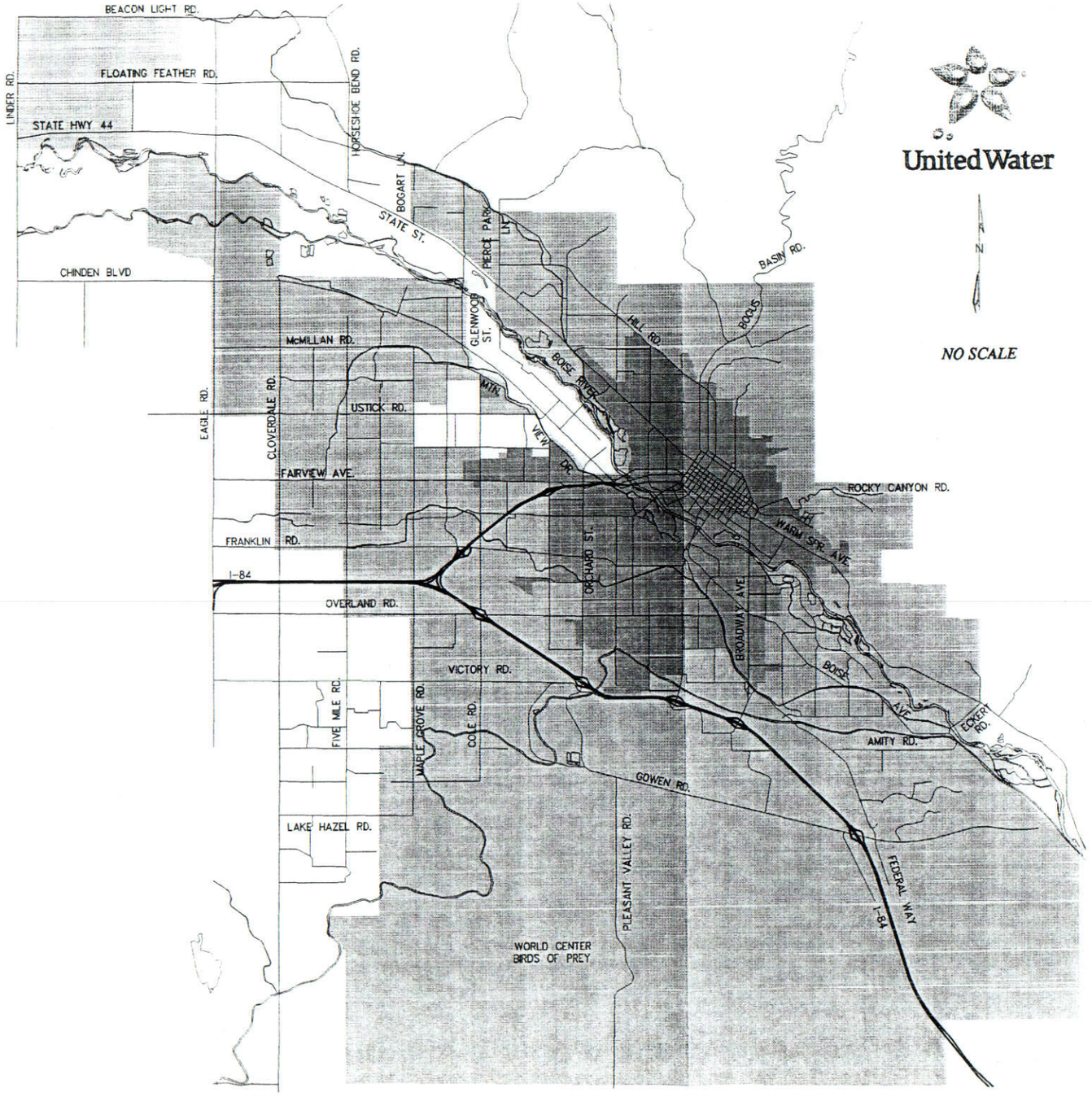
REVISED DATE: 12-05-96

ter Idaho's changing

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the

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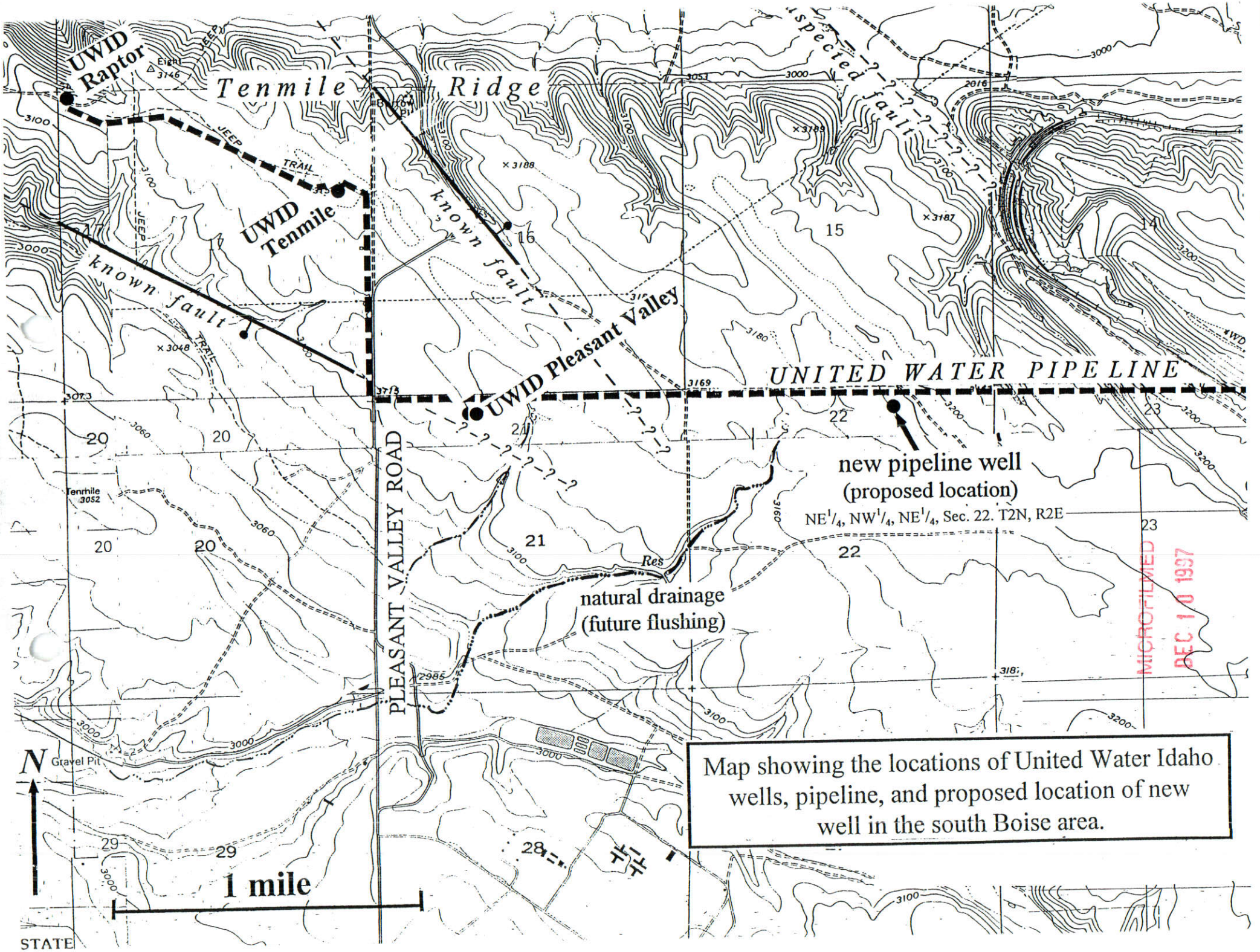
BOUNDARY - JULY 1958

BOUNDARY - 1996

MICROFILMED
DEC 10 1997

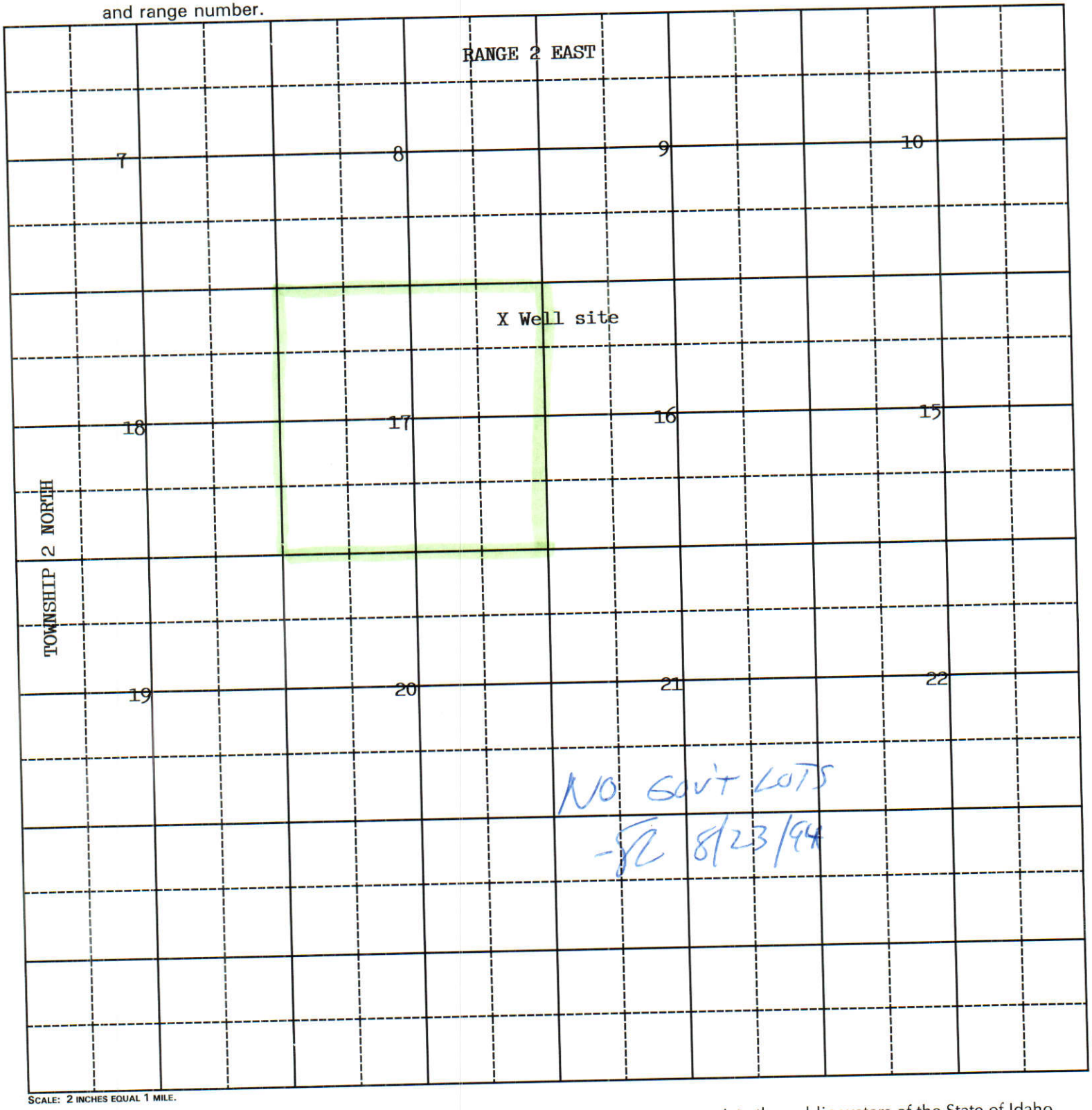
ONLY
D
URACIES

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Map showing the locations of United Water Idaho wells, pipeline, and proposed location of new well in the south Boise area.

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.

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.

RECEIVED
MAR 29 1995

Wayne L Boone
(Applicant)
WAYNE BOOE, President

M:\RIGHTS\BLKCRK-1.APP

Proposed Boise Water Corporation Water-Main Extentions to the Yanke / Nicholson Well-Field (1994)

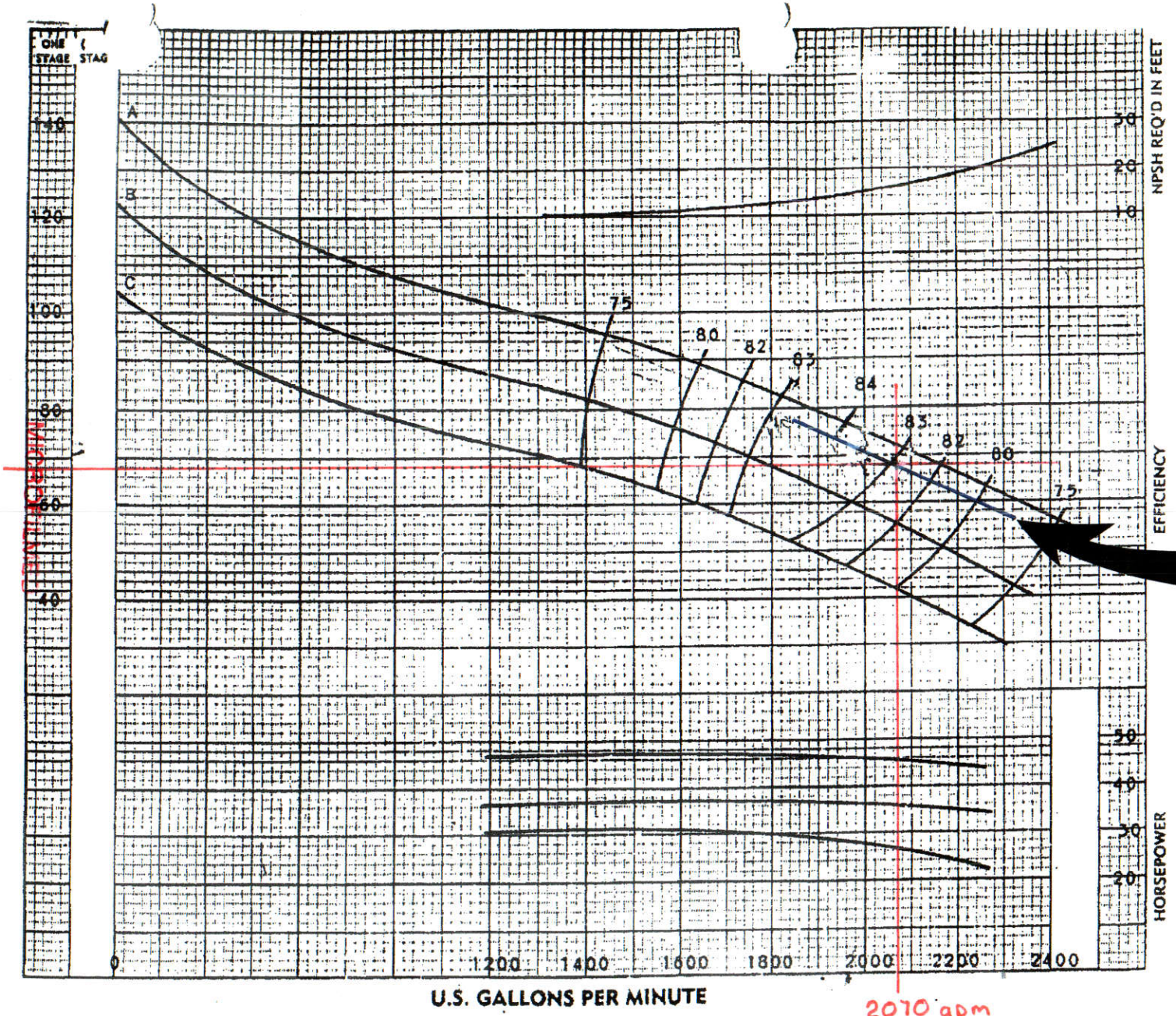
Sunset West
Mac
Boise Airpo
Terteling
Simplot
New York Canal
Boise River
Oregon Trail
Gowen
Gowen Road
Les Bois Soccer
Columbia test
J.R. Flat
South Cole Road
New York Canal
Pleasant Valley Road
Micron test
Columbia Road
Micron #3
End
Alternate A — 29,800 ft
3,300 ft
Pacific Railroad
Union Pacific
Peregrine
Tenmile Ridge
Yanke/Nicholson Wells
Start
Alternate B — 26,450 ft
I-84
IDAHO STATE CORRECTIONAL INSTITUTION
Penetentiary
Penitentiary
Blacks Creek

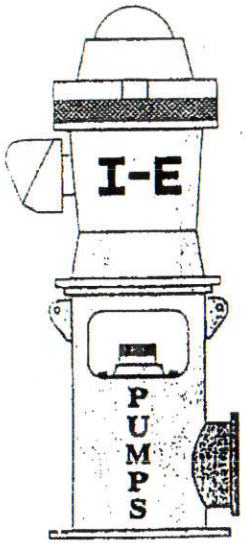
N

RECEIVED
SEP 23 1994
WATER RESOURCES
WESTERN REGION

ES 8-1-94

- = Boise Water Corp wells
- = Yanke / Nicholson wells
- = Other significant wells
- = Proposed water-main extentions





Performance curve from impeller trim

1567 E. HWY. 160
P.O. BOX 112
MONTE VISTA
COLORADO 81144

(719) 852-5174

SEP 19 2001

Figure 2.

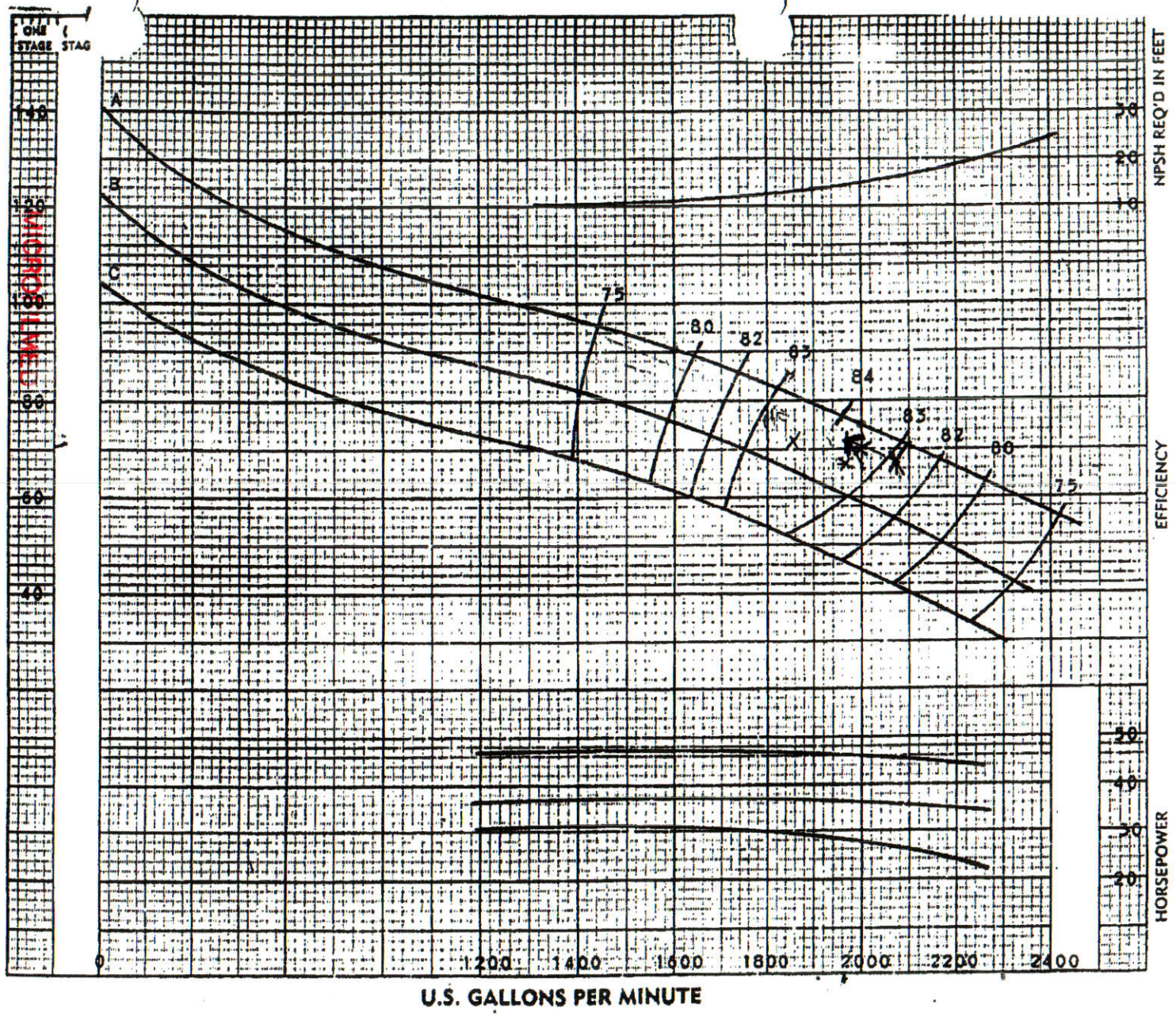
SECTION N
PAGE 136
DATE 12-20-90

I-E UWID Pleasant Valley Well

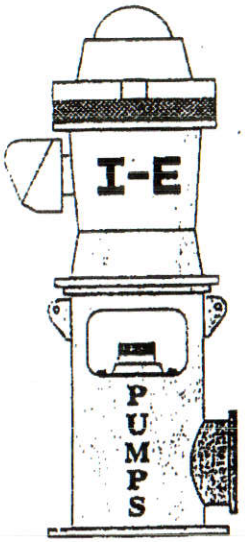
"TOP-O-THE LINE"

14AL-1960 DESIGN

1770 R.P.M.



SEP 19 2001



1567 E. HWY. 160
P.O. BOX 112
MONTE VISTA
COLORADO 81144

(719) 852-5174

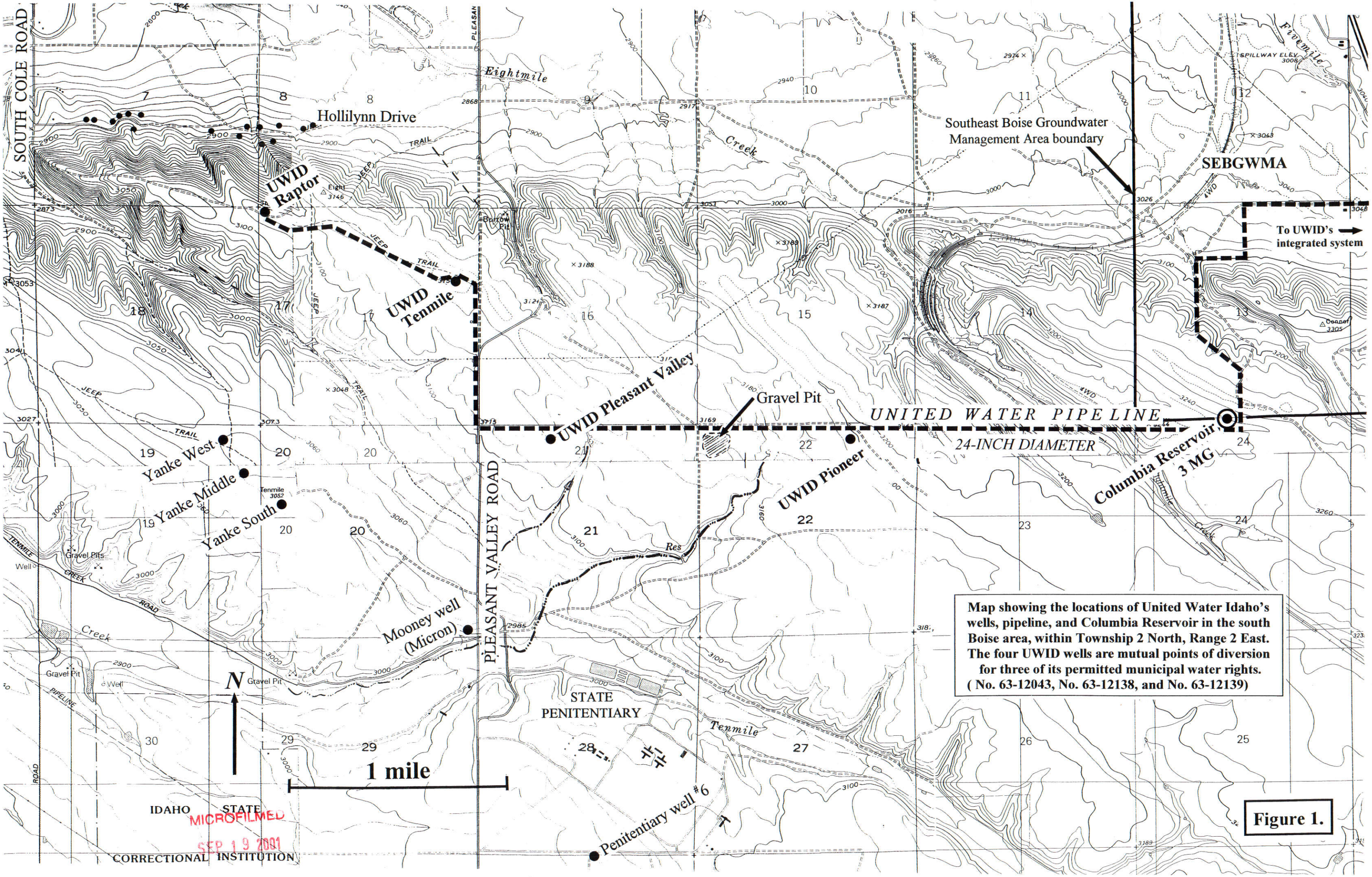
I-E
"TOP-O-THE LINE"

Pleasant Valley

14AL-1960 DESIGN

1770 R.P.M.

SECTION N
PAGE 136
DATE 12-20-90



Map showing the locations of United Water Idaho's wells, pipeline, and Columbia Reservoir in the south Boise area, within Township 2 North, Range 2 East. The four UWID wells are mutual points of diversion for three of its permitted municipal water rights. (No. 63-12043, No. 63-12138, and No. 63-12139)

Figure 1.



Figure 2. UWID's three-million-gallon Columbia Reservoir in southeast Boise. Upper photo is looking east from the UWID Pioneer supply well. Red dashed line is the route of the 24-inch diameter water main connecting UWID's Ten Mile Ridge wells (Fig. 1). Lower photo looks west at the steel tank and fenced perimeter.

MICROFILMED
SEP 19 2001



Figure 3. Photographs of the exterior of United Water Idaho's Pleasant Valley well's pump house and interior discharge-piping configuration at the well head.

MICROFILMED
SEP 2001

Figure 3.

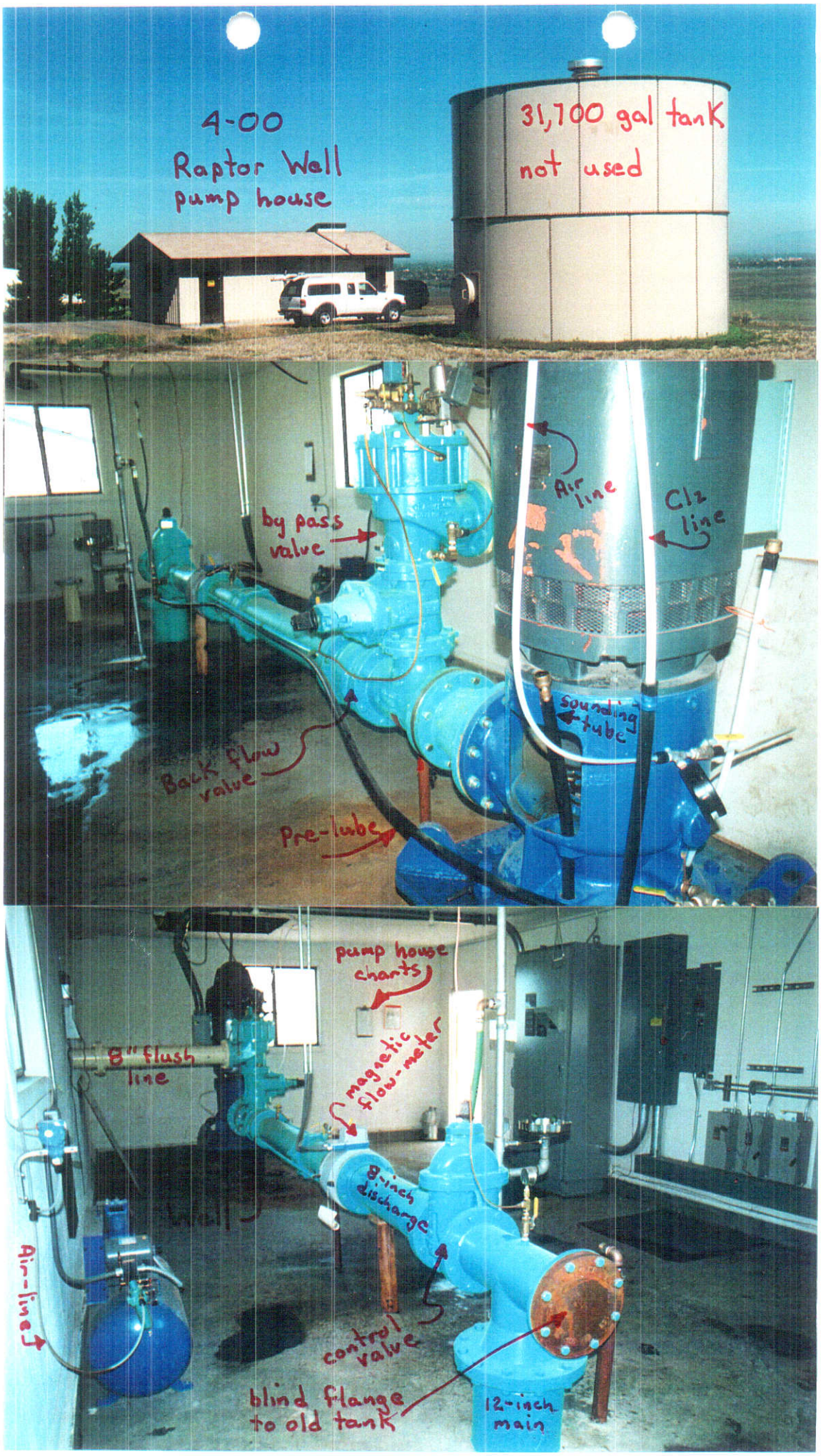


Figure 4. UWID Raptor well photos showing piping configuration and pump house located within the World Center for Birds of Prey compound in south Boise.

MICROFILMED
SEP 19 2001

Figure 4.

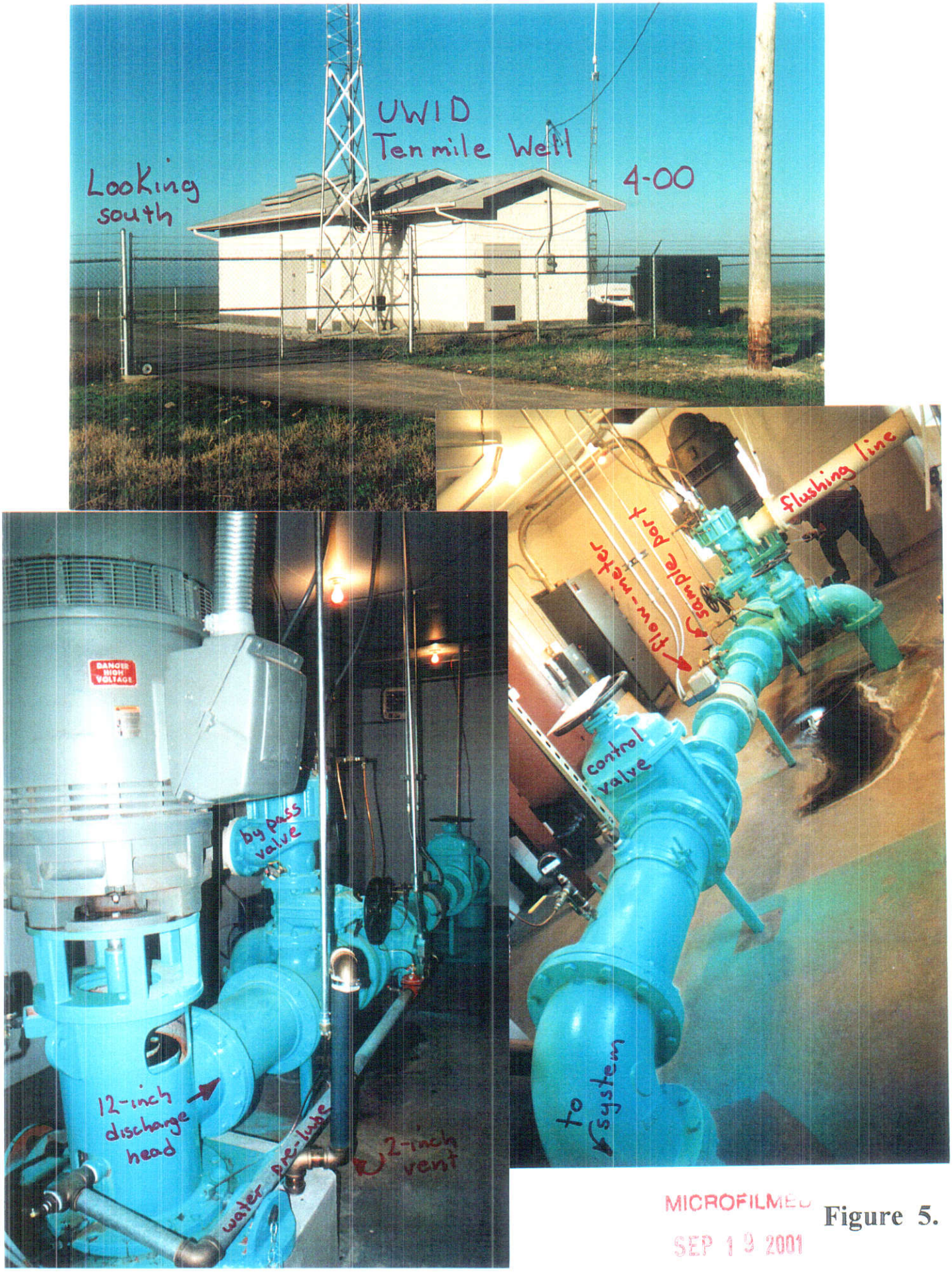


Figure 5. United Water Idaho "Ten Mile" well pump-house and interior discharge-piping and well head configuration.

MICROFILMED
SEP 19 2001

Figure 5.

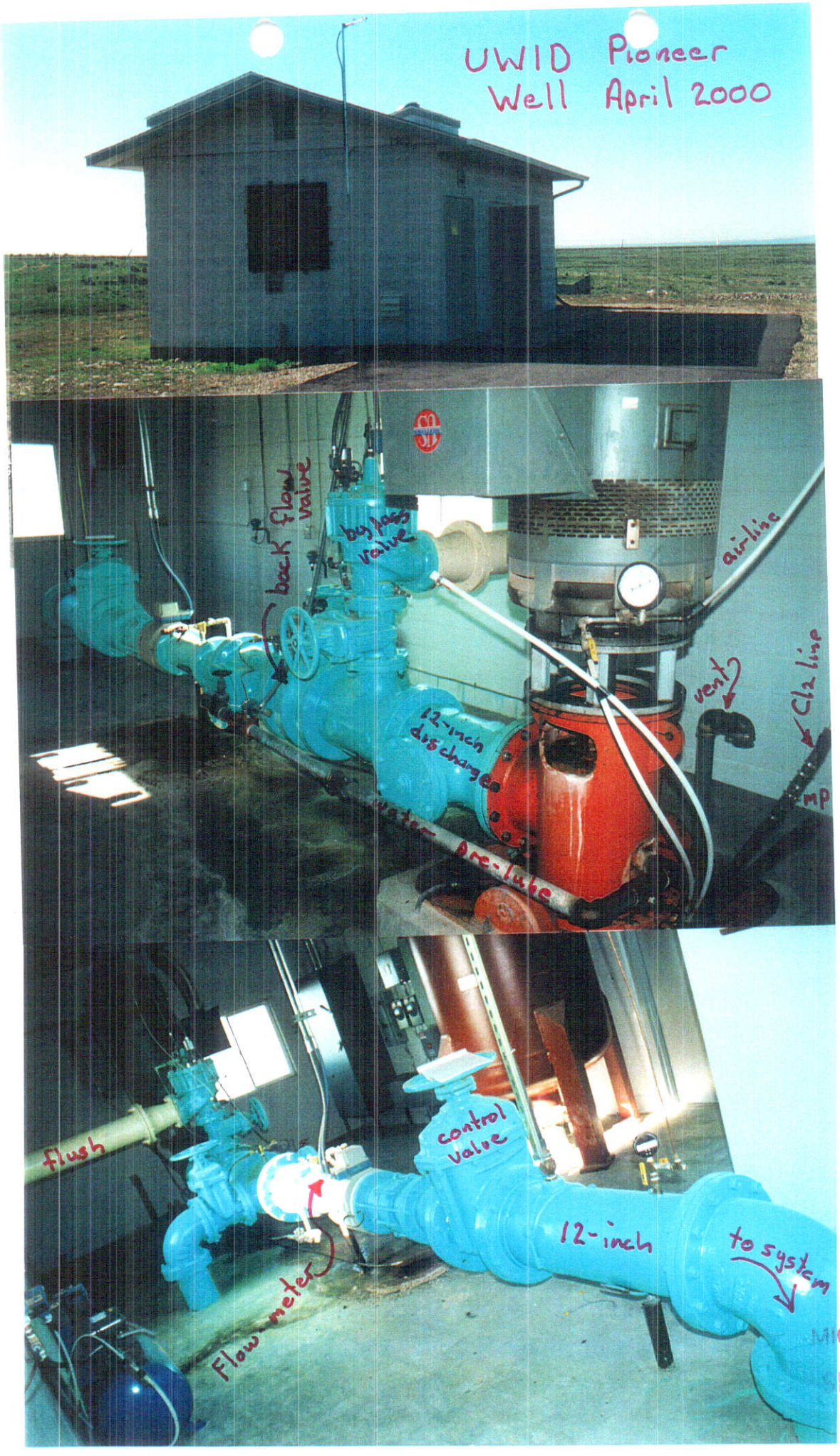
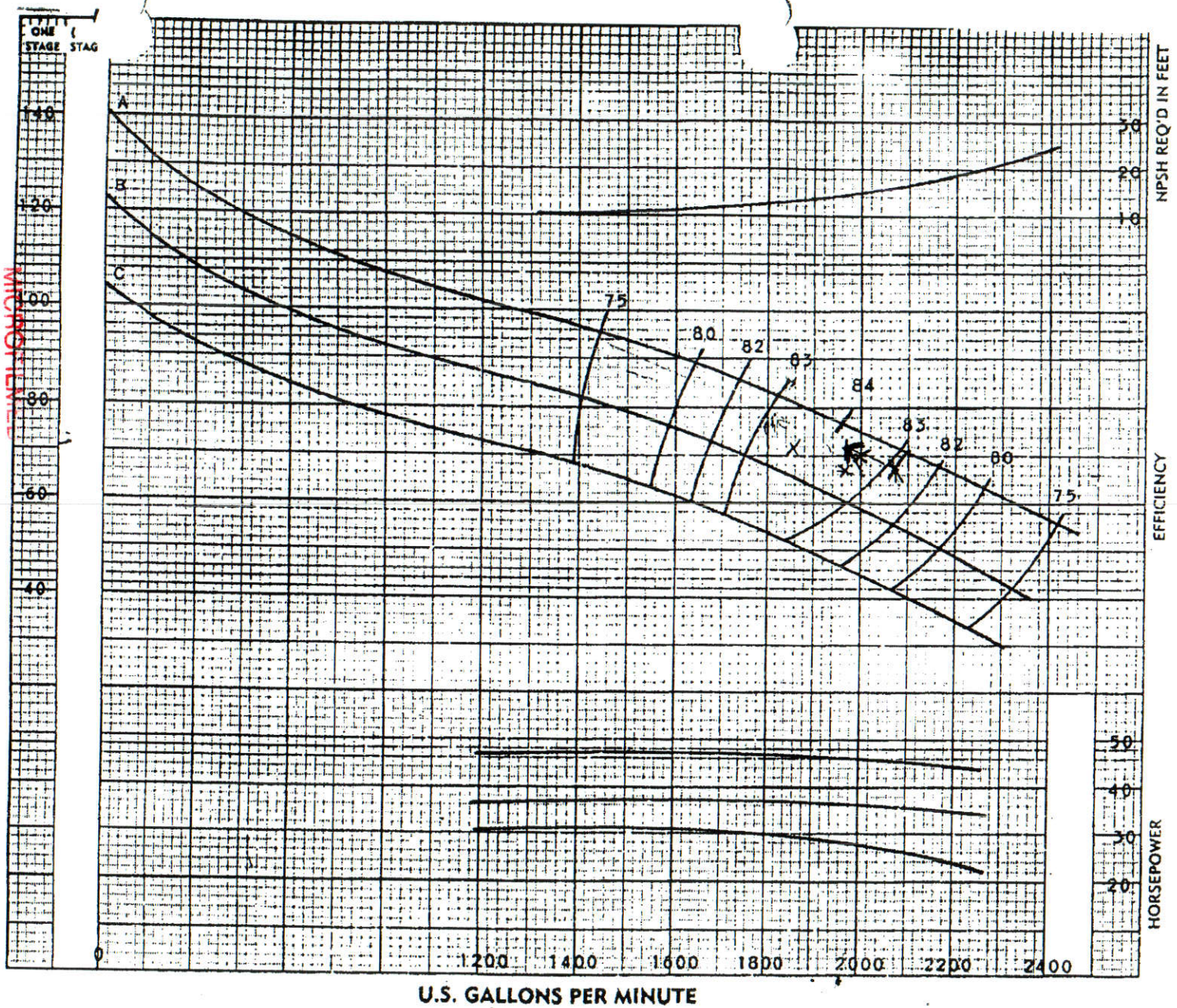


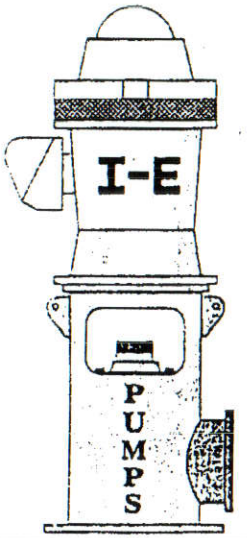
Figure 6. United Water Idaho "Pioneer" well pump-house and interior discharge-piping and well head configuration.

MICROFILMED

Figure 6.



SEP 19 2001
MISCELLANEOUS



1567 E. HWY. 160
P.O. BOX 112
MONTE VISTA
COLORADO 81144

(719) 852-5174

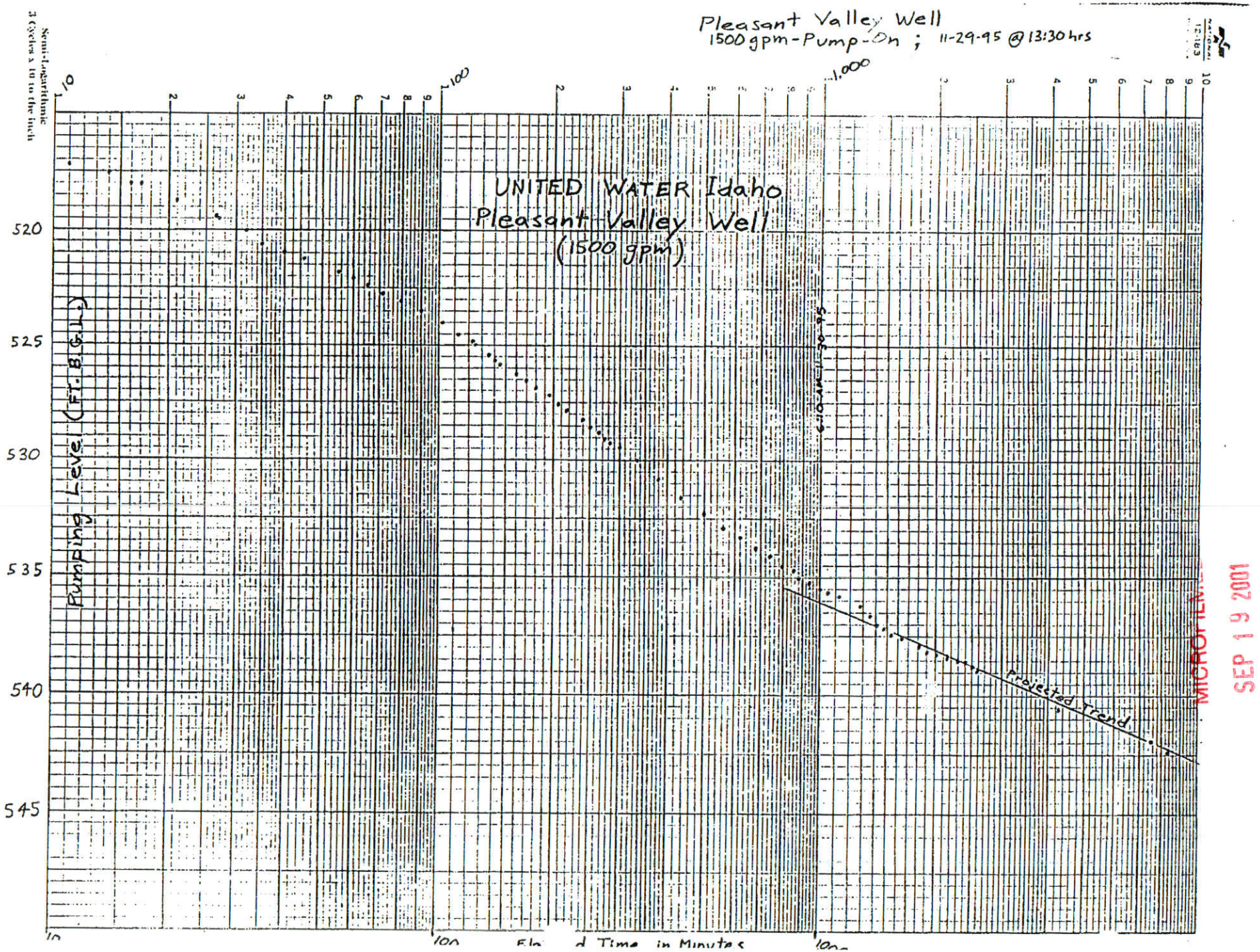
I-E
"TOP-O-THE LINE"

Pleasant Valley

14AL-1960
DESIGN

1770
R.P.M.

SECTION N
PAGE 136
DATE 12-20-90



MICROFILMED
SEP 19 2001

DARRELL HOEFER
RAPTOR WELL

PUMP DATA SHEET
Goulds Turbine 60 Hz

Goulds Pump Selection ver: 6.00a
03/15/99

Curve: E6412CFPCO

Selection file: (untitled)
Catalog: TURB60.MPC v 1.4.1

Design Point: Flow: 1000 US gpm
Head: 776 ft

Pump: TURBINE - 1800
Speed: 1770 rpm
Size: 12CLC (13 stages)
Dia: 5.6875 in

Limits: Temperature: — °F
Pressure: 340 psig
Sphere size: 0.73 in
Power: — bhp

Specific Speed: Ns: —
Nss: 2600

Dimensions: Suction: 8 in
Discharge: 6 in

Vertical Turbine: Bowl Dia: 11.75 in
Thrust K Factor: 7.5
Max Lateral: 1 in

Motor: 250 hp
Speed: 1800
NEMA Standard
Frame: 447T
TEFC Enclosure
sized for Max Power on Design Curve

Field: Water
Temperature: 60 °F
SG: 1
Viscosity: 1.122 cP
Vapor pressure: 0.2568 psig
Atm pressure: 14.7 psig

NPSHa: — ft

Piping:
System: —
Suction: — in
Discharge: — in

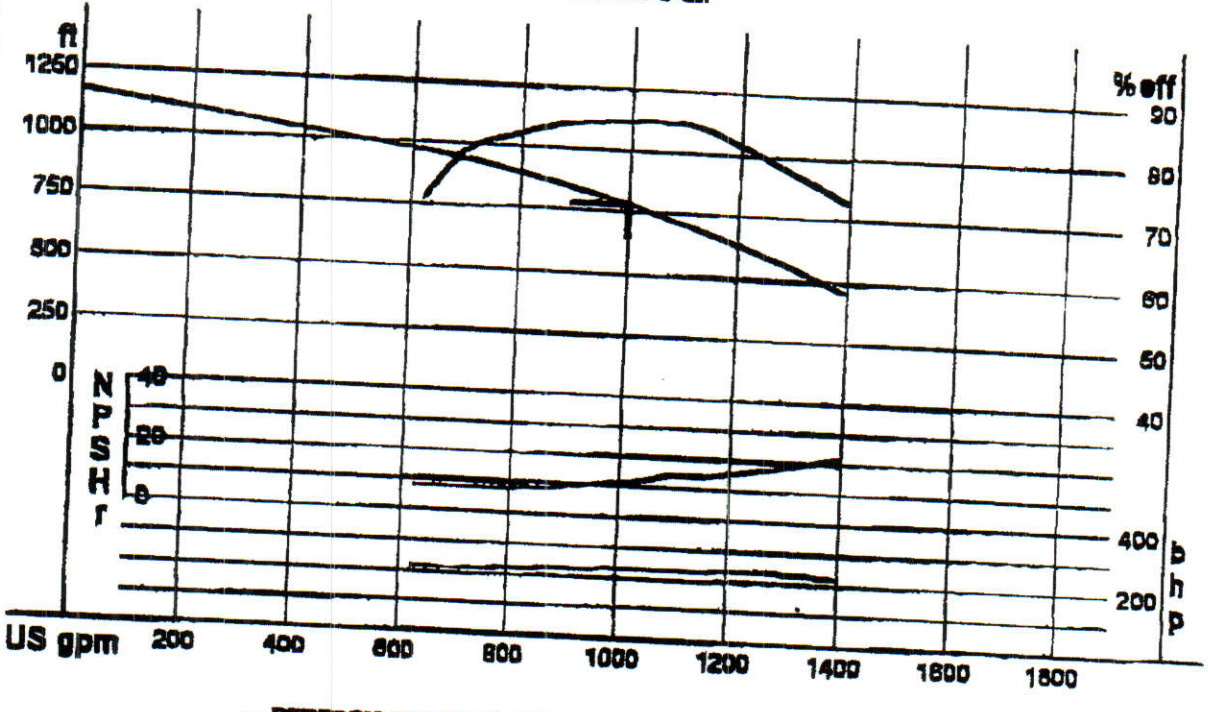
Raptor Well

10" Suct dia and 8" and 10" Disch dia also avail.

— Data Point: —
Flow: 1000 US gpm
Head: 777 ft
Eff: 85%
Power: 231 bhp
NPSHr: 11.3 ft

— Design Curve —
Shutoff Head: 1169 ft
Pressure: 507 psig
Min Flow: - US gpm
BEP: 85.1% eff
@ 1041 US gpm
NOL Pwr: 235 bhp
@ 1282 US gpm

— Max Curve —
Max Pwr: 235 bhp
@ 1283 US gpm



— PERFORMANCE EVALUATION —

Flow US gpm	Speed rpm	Head ft	Pump %eff	Power bhp	NPSHr ft	Motor %eff	Motor hp	Hrs/yr	Cost /kW
1200	1770	630	81.5	234	15.4				
1000	1770	777	85	231	11.3				
800	1770	885	82.3	220	8.14				
600	Flow Rate is Out of Range for this Pump								
400	Flow Rate is Out of Range for this Pump								

MICROFILMED
SEP 19 2001

COULDS PROPOSAL NO	COULDS SO NO	MARK OR NO	CUSTOMER PO	PO DATE	ITEM NO	ENGINEER
T60	412083		72247	4-28-99		Riverside, Inc, Parma, Idaho

PROJECT: Raptor Well

SERVICE:

RPM	TDH	EFF	RPM
1000	736	84.7	1780

METERS / FEET

TOTAL HEAD PER STAGE

1170 / 90 — 1040 / 80 — 910 / 70 — 780 / 60 — 650 / 50 — 520 / 40

8.69 FEET
8.31
7.94

85 86 85

30 20 10 — MINIMUM STAGES — FEET / METERS

20 15 10 — HORSEPOWER — STAGES

CAPACITY

U.S. GPM: 0 200 400 600 800 1000 1200 1400 1600 1800

CU. METERS PER HOUR

CURVE NO	E6412CrPC1
MODEL	12CLC
RPM	1770

EFFICIENCY CORRECTION

STGS 1	3.0
STGS 2	2.0
STGS 3	0.5
STGS 4	0.0

PERF BASED ON STD MAT_'S

Impeller: CLOSED

Ns = 2250

K = 7.40 LBS/FT
11.0 KG/M

K(Ba|)=

GOULDS PUMPS
TURBINE DIVISION
LUBBOCK, TEXAS

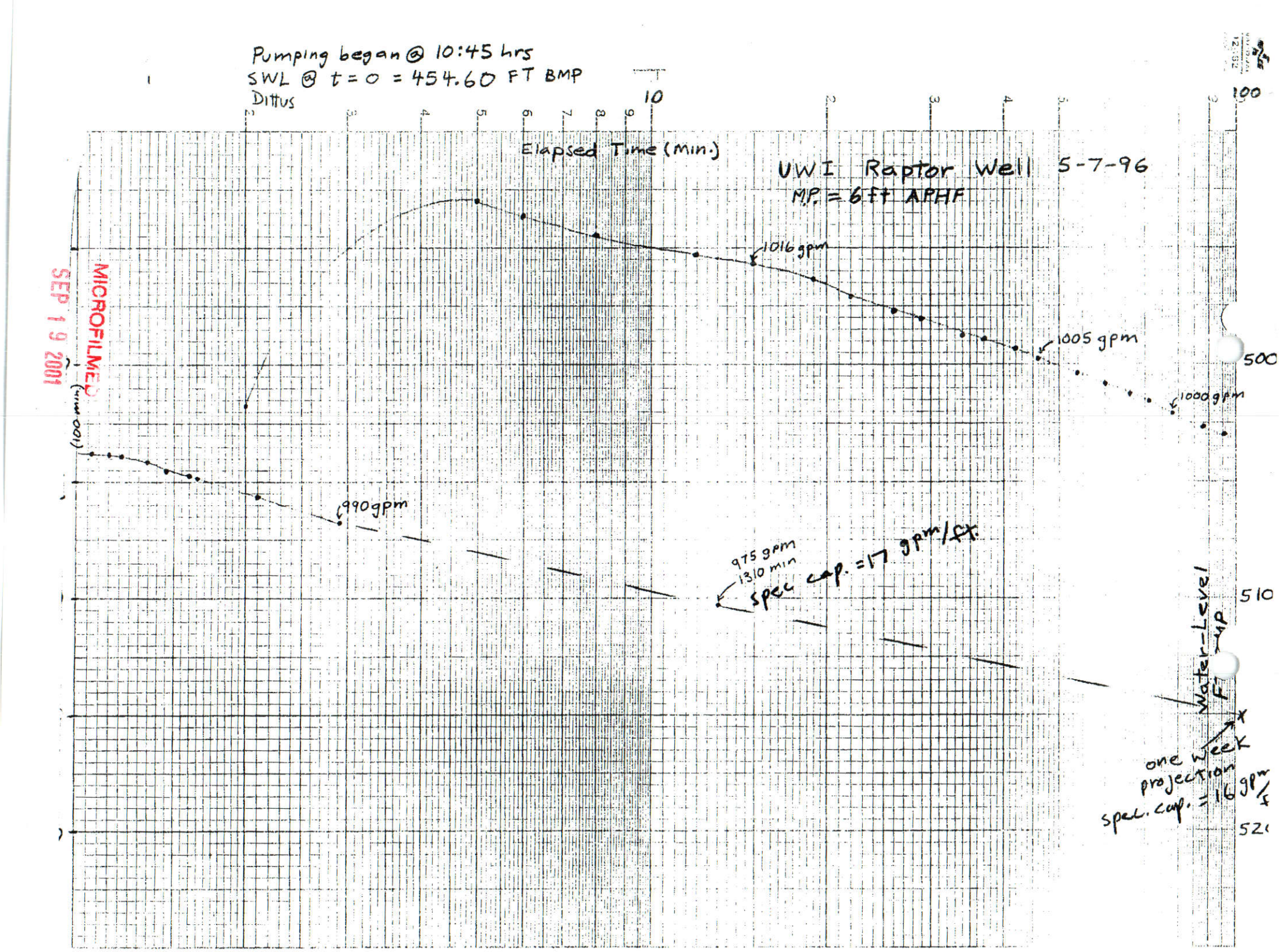
CHARACTERISTICS BASED UPON PUMPING CLEAR, NON-AERATED WATER.

RATING POINT ONLY IS GUARANTEED. COLUMN LOSSES NOT INCLUDED

MODEL 12CLC
DATE SEP 1999

x:/tucb/curves/12clcb.dyn Aug. 18, 1999 11:54:33

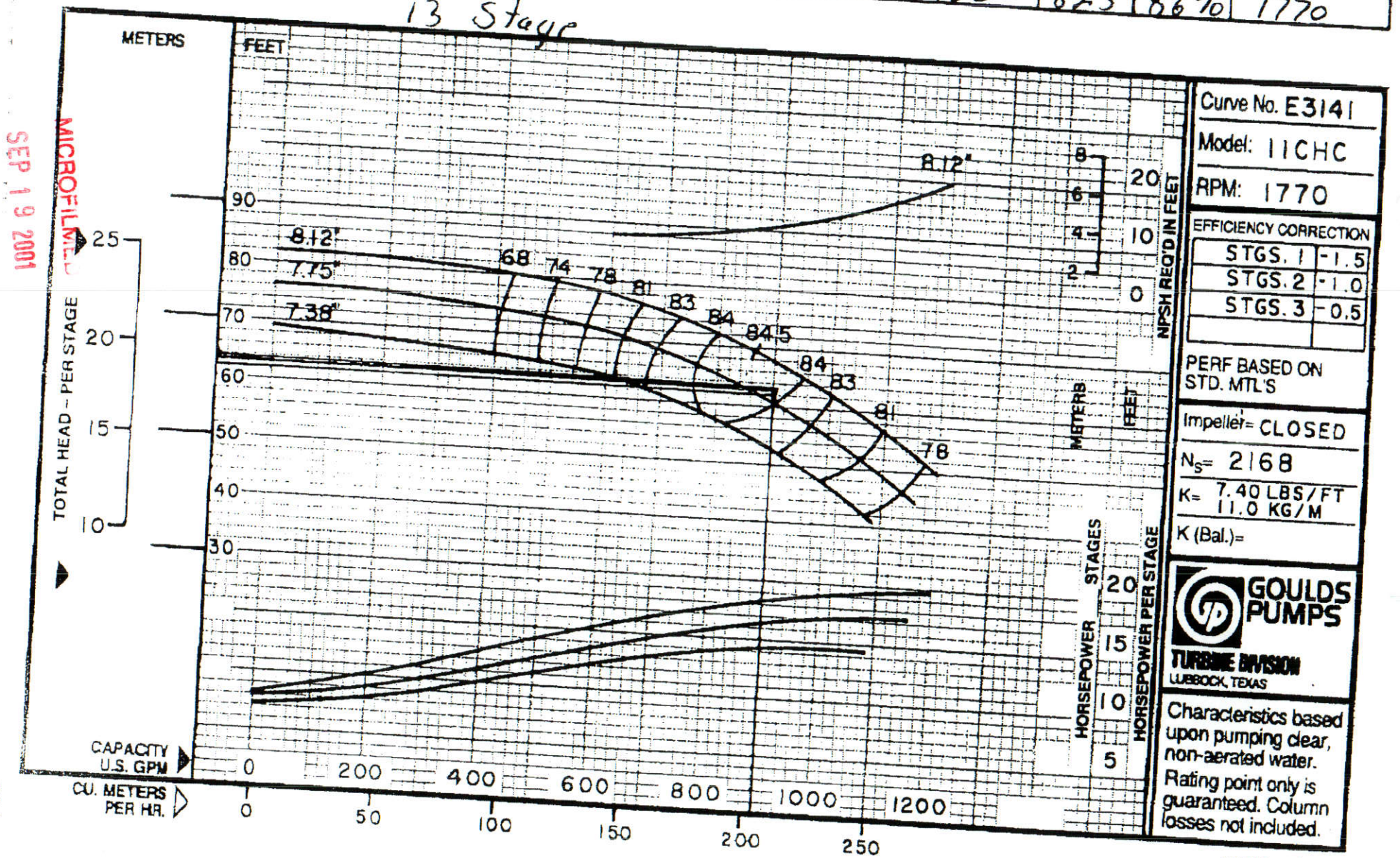
MICROFILMED
SEP 19 2001


Pumping began @ 10:45 hrs
SWL @ t = 0 = 454.60 FT BMP
Dittus
Elapsed Time (min.)
UWI Raptor Well 5-7-96
M.P. = 6 ft APHF
1016 gpm
1005 gpm
1000 gpm
990 gpm
975 gpm
1310 min
spec cap. = 17 gpm/ft.
Water-Level
one week
projection
spec. cap. = 16 gpm/ft
MICROFILMED
SEP 19 2001

GOULDS PROPOSAL NO.	GOULDS S.O. NO.	INQUIRY NO.	CUSTOMER P.O. NO.	P.O. DATE	ITEM NO.	CUSTOMER
01700						
PROJECT: 10 mile South	SERVICE					United Water 10 mile South

GPM CAPACITY	F.T. TDH	% EFFICIENCY	RPM
900	825	86%	1770

13 Stage



Curve No. E3141
Model: 11CHC
RPM: 1770

EFFICIENCY CORRECTION

STGS. 1	-1.5
STGS. 2	-1.0
STGS. 3	-0.5

PERF BASED ON STD. MTL'S

Impeller= CLOSED

N_S= 2168

K= 7.40 LBS/FT
11.0 KG/M

K (Bal.)=

GOULDS PUMPS
TURBINE DIVISION
LUBBOCK, TEXAS

Characteristics based upon pumping clear, non-aerated water. Rating point only is guaranteed. Column losses not included.

MODEL 11CH
DATE April, 1994
SUPERCEDES February, 1

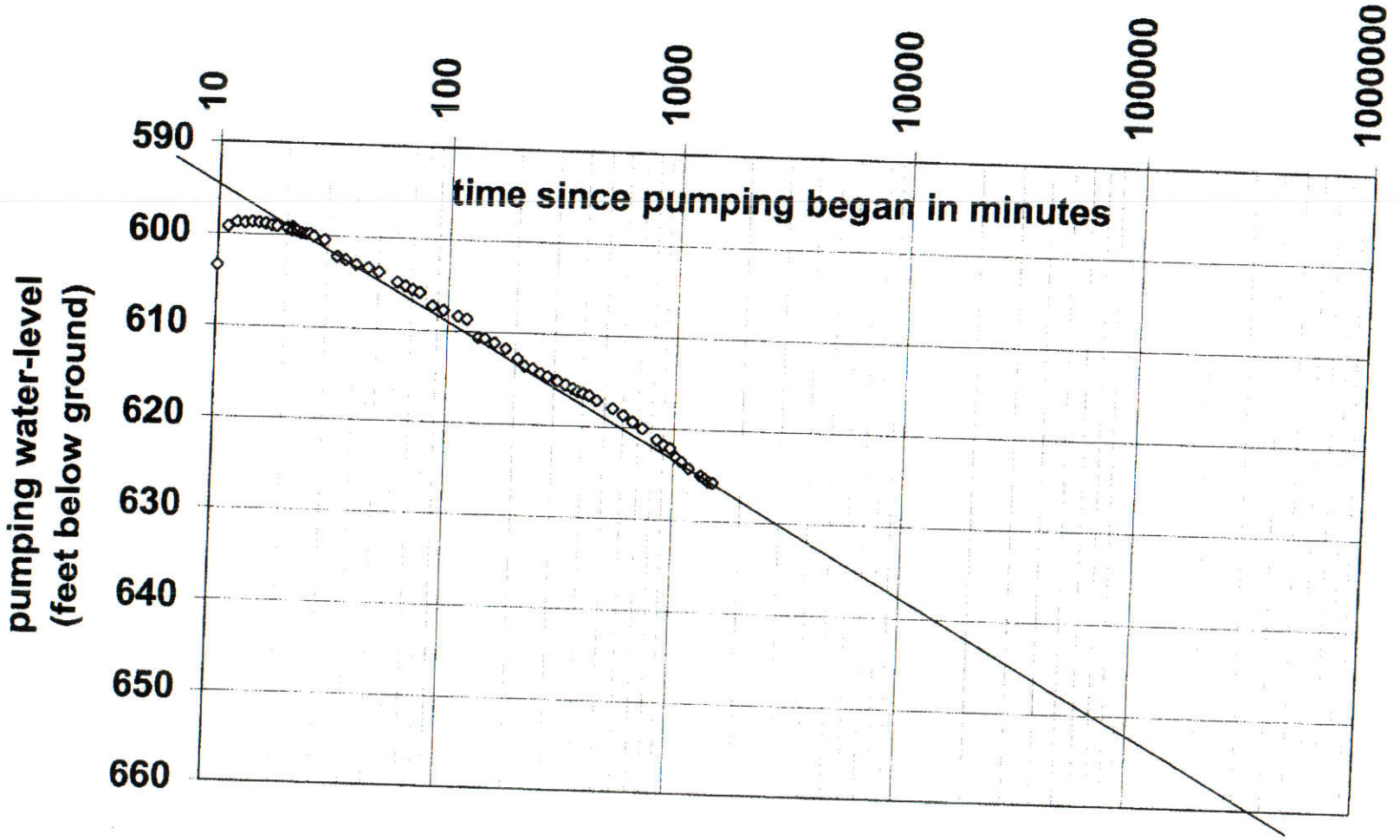
MICROFILMED SEP 19 2001

MICROFILMED
SEP 19 2001

United Water Idaho Tenmile Well

Constant Discharge Test 9-24-96

1,550 GPM



WELL SETTING DATA

DATE INSTALLED: 04/15/98 — SETTING TO TOP OF BOWLS: 640 FT

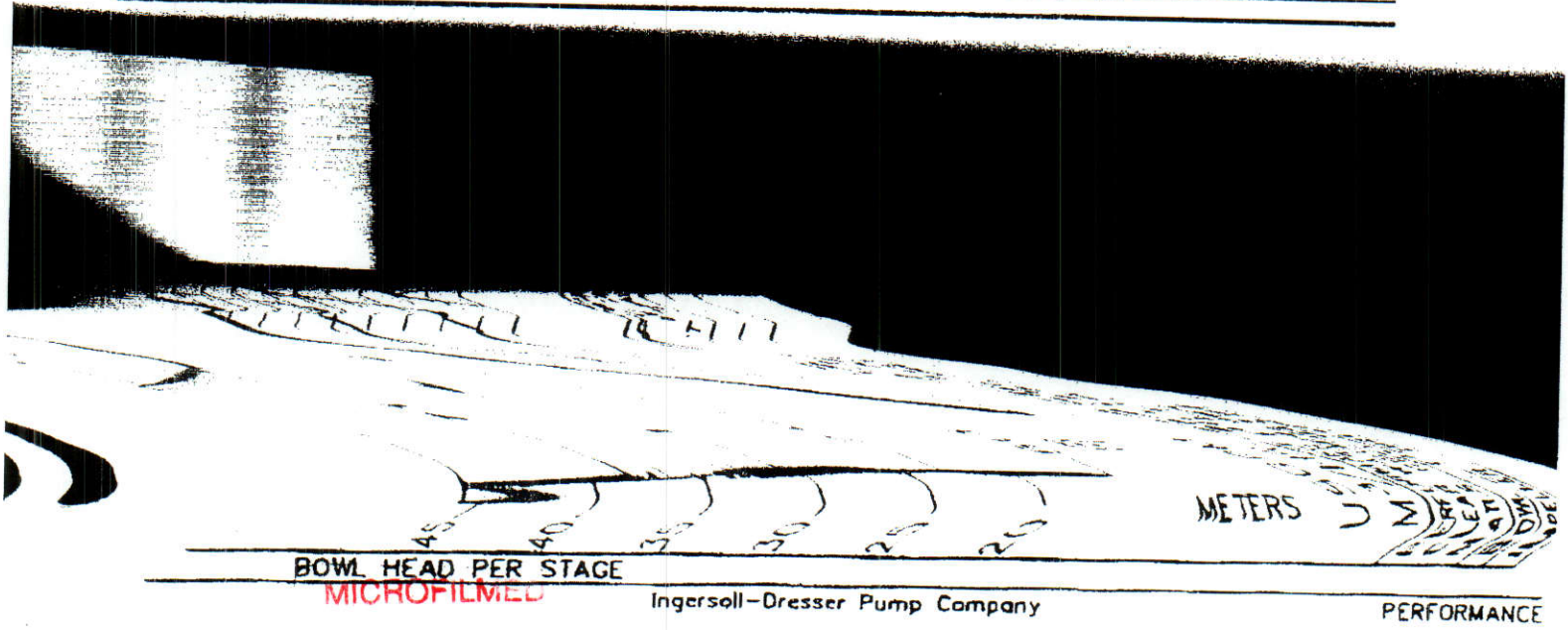
LOCATION: PIONEER #139 — STATIC: — OR. STATIC: 510 FT Apr-98

PUMP

MANUFACTURER	INGERSOLL-DRESSER			SERIAL NO.			
NUMBER OF COLUMS	63	SIZE	10 IN	LENGHT	9 FT 11.25 IN	TAPERED Y/N	N
NUMBER OF COLUMS	2	SIZE	10 IN	LENGHT	4 FT 11.25 IN	TAPERED Y/N	N
NUMBER OF SHAFTS	63	SIZE	1 15/16	LENGHT	10 FT	THREADS	8 LH
NUMBER OF SHAFTS	1	SIZE	1 15/16	LENGHT	5 FT	THREADS	8 LH
NO. OF STAGES	7	IMP QUA	7	IMP DIAM	11.130	IMP TRIM	FULL
SIZE/MODEL	14JKH	IMP QUA		IMP DIAM		IMP TRIM	
TYPE	DWT			DISCH DIAMETER	10 IN	IMP NUMBER	
GPM	1200			LENGTH OF TAIL PIECE	7 FT	TAPERED Y/N	Y
RPM				HEAD SHAFT LENGTH		SHAFT SIZE	
TDH	780 FT			GLAND SHAFT LENGTH	69 IN	SHAFT SIZE	1 15/16 IN
LENGTH OF MOTOR				LENGTH OF BOWLS	8 FT	EFFICIENCY	
CURVE NUMBER							

MOTOR

MANUFACTURER	US (TITAN INVERTER DUTY MOTOR)		
SERIAL NO			
TYPE	DWT	VOLTS	460
MAKE	HUE-1	AMPS	346
MODEL	ID #B05 97031041-001R-1	PHASE	3
HP	300	CYCLES	60
UPPER BEARING		RPM	1800
LOWER BEARING		FRAME	5006PH



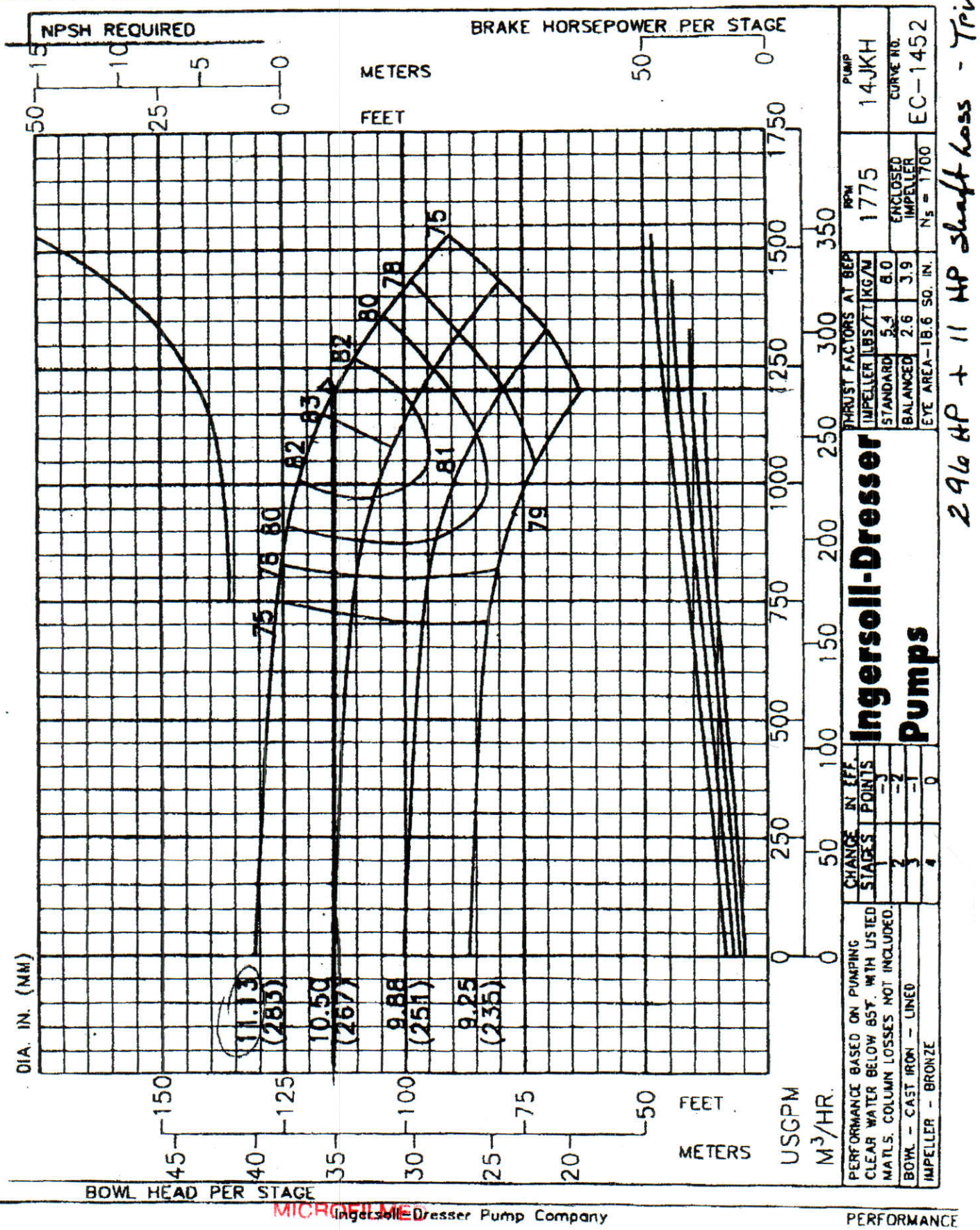
MICROFILMED
SEP 19 2001

60 ps.

Ingersoll-Dresser Pumps

VTP VERTICAL PUMPS

Sheet 520.62
December 1, 1993
New Sheet



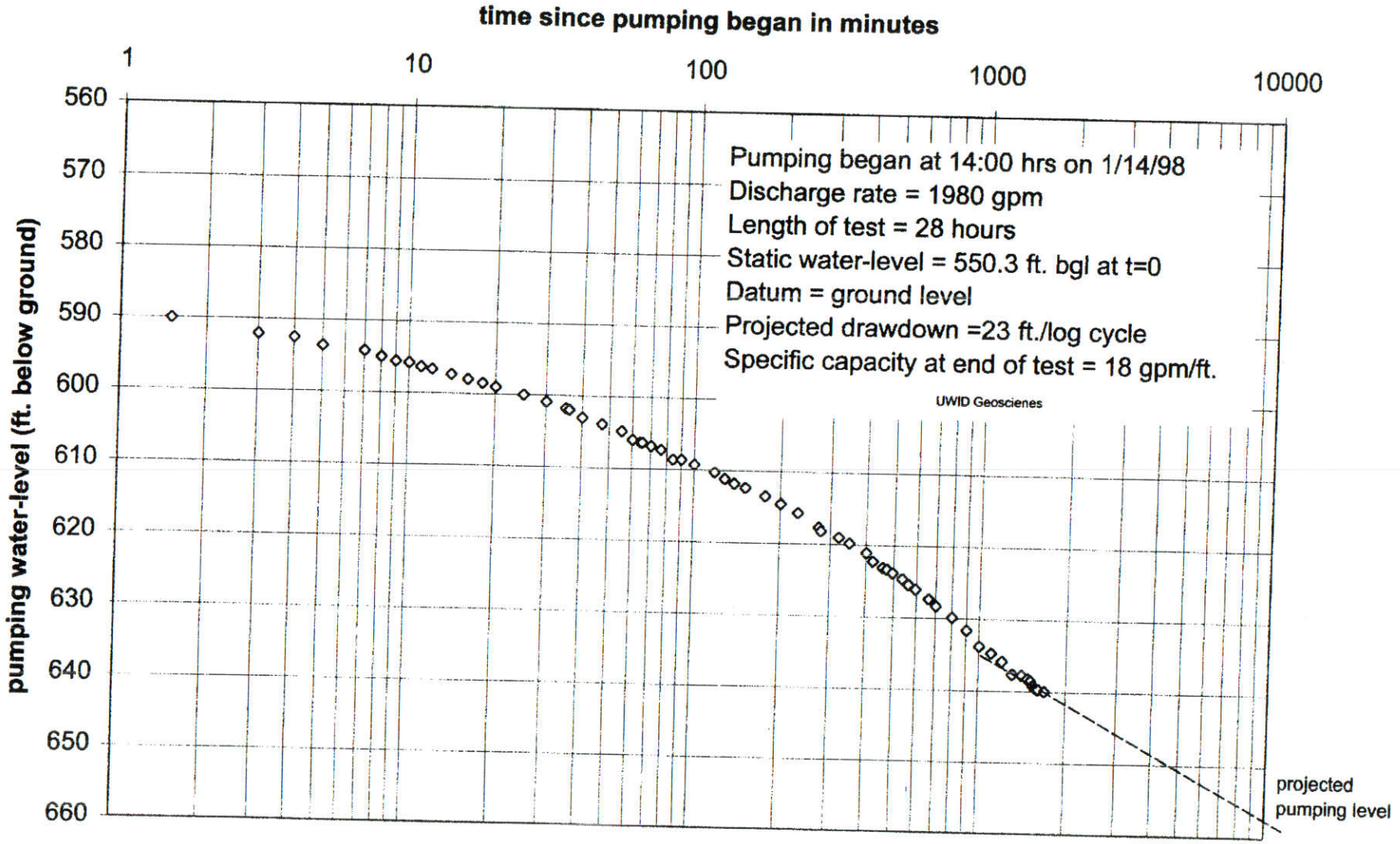
Pioneer

2.96 HP + 11 HP shaft loss - Trim Brg. Imp.

© 1993 Ingersoll-Dresser Pump Company
Printed in U.S.A.

MICROFILMED
SEP 19 2001

UWID Pioneer Well Constant Discharge Test



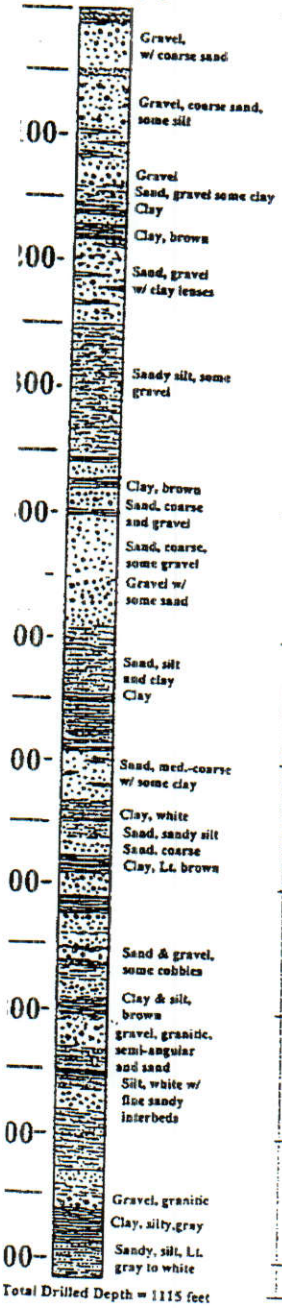
MICROFILMED
SEP 19 2001

UNITED WATER IDAHO
PLEASANT VALLEY WELL

T2N, R2E, NW¼, NE¼,NW¼, Sec. 21
Completed 8-17-95

LITHOLOGIC LOG

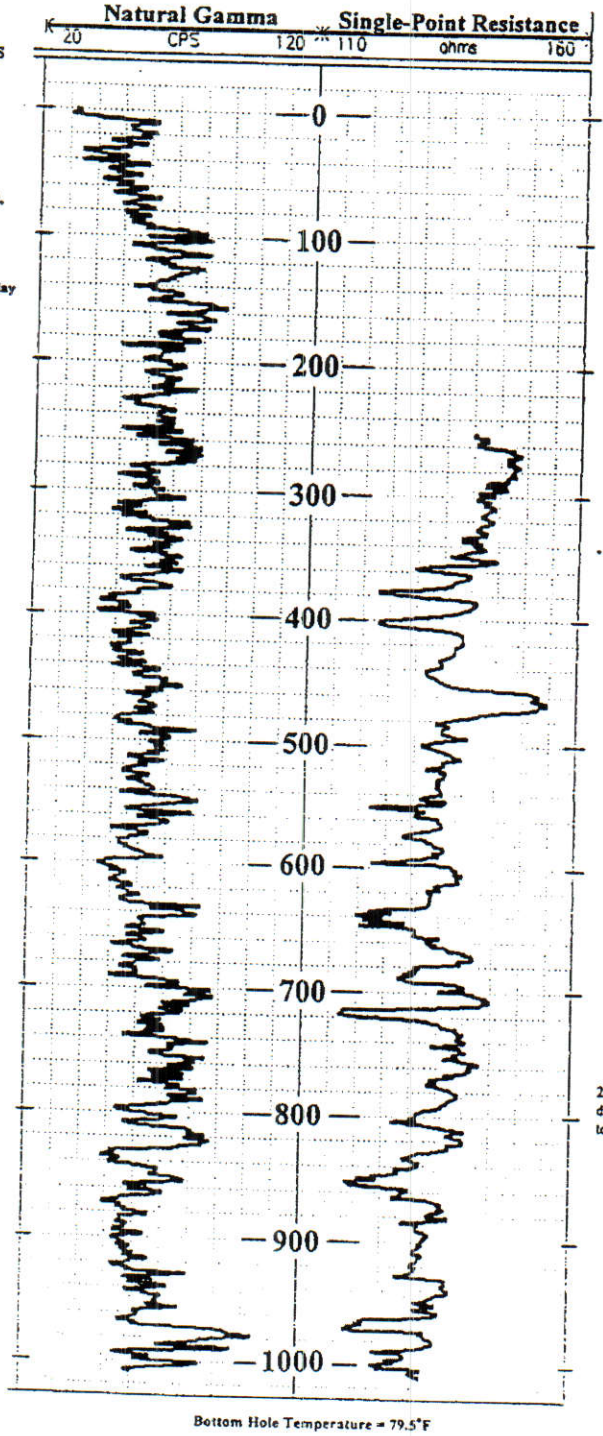
ased on driller's cuttings and geophysics



Total Drilled Depth = 1115 feet

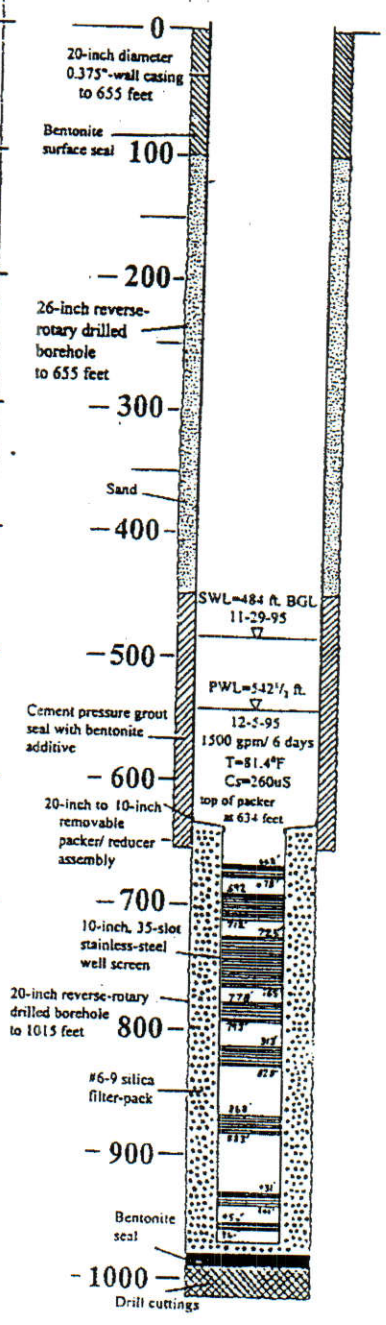
GEOPHYSICAL LOGS

8-2-95

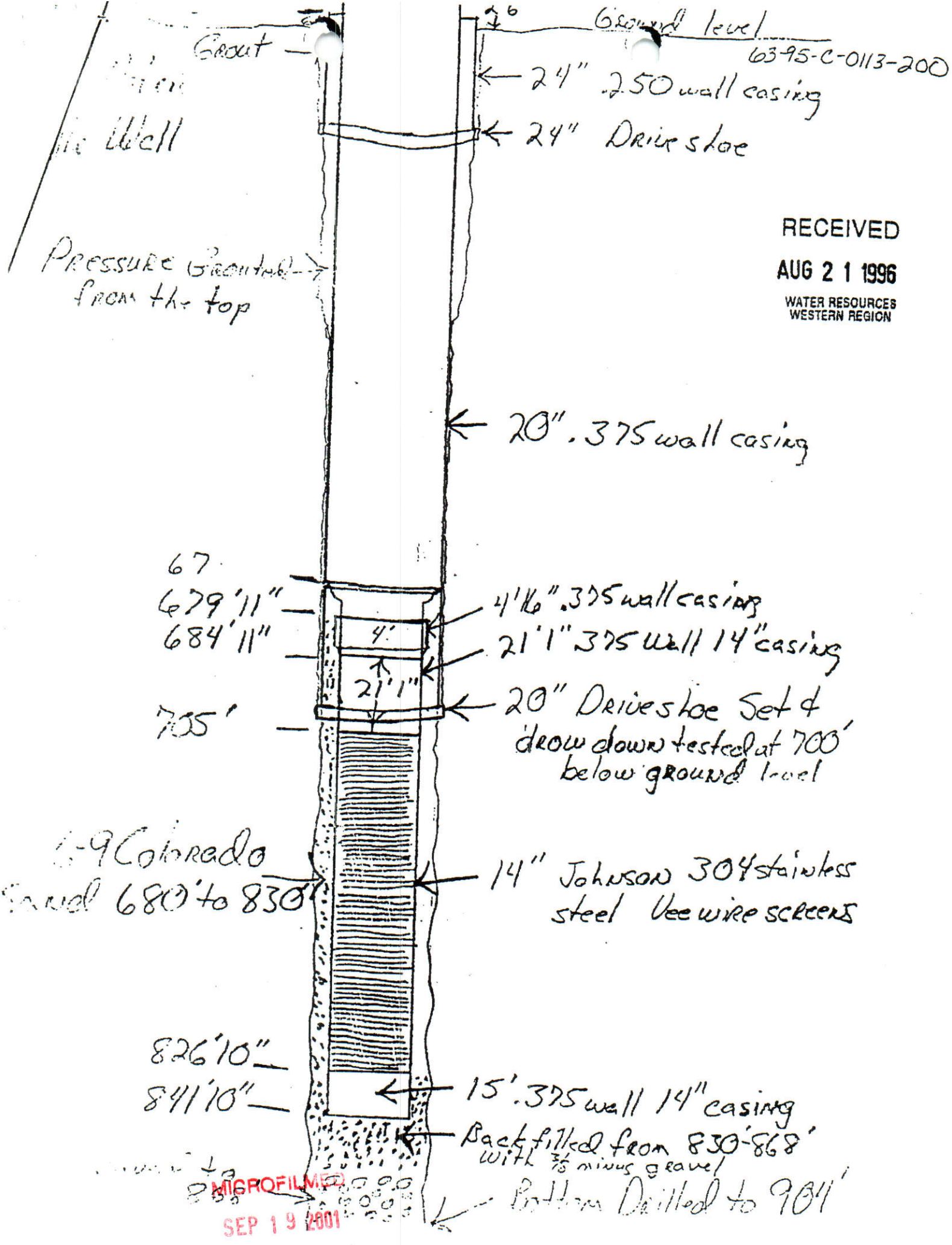


Bottom Hole Temperature = 79.5°F

WELL CONSTRUCTION



MICROFILMED
SEP 19 2001


Grout
Ground level
63-95-C-0113-200
24" .250 wall casing
24" Drive shoe
RECEIVED
AUG 2 1 1996
WATER RESOURCES
WESTERN REGION
Pressure Grouted from the top
20" .375 wall casing
679'11"
684'11"
705'
4'
21'1"
4'1/6" .375 wall casing
21'1" 375 wall 14" casing
20" Drive shoe Set & drow down tested at 700' below ground level
14" Johnson 304 stainless steel Vee wire screens
826'10"
841'10"
15' .375 wall 14" casing
Backfilled from 830'-868' with 3/8 minus gravel
Bottom Drilled to 904'
MICROFILMED
SEP 19 2001

UWID Pioneer Well

N½, NW¼, NE¼, Sec. 22, T2N, R2E

well construction
completed 12/22/97 by Riverside Inc.
(reverse-rotary method)

Depth
(feet below
ground)

0
100
200
300
400
500
600
700
800
900

SCALE:
Vertical: 1" = 100 ft.
Horiz.: 0.1" = 2 in.

As Built Well Construction
verified by UWID Geosciences
camera survey 1/8/98

30-in reverse-rotary drilled hole to 680 ft. (initially drilled w/ 18" bit and then reamed)

20-in. (0.375"-wall) casing from +1½ ft. to 681 ft. with centralizers every 80-ft.

SWL=550'
1-14-98

"Teague" ⅝"-chip bentonite annular seal poured from surface and tagged to confirm placement (56 yards³ total)

PWL=640' 1-15-98
1980 gpm/28 hours

20"-to-10" packer (see Detail B)

(clay bed
678'-684')

658'8"

680'

18-in. drilled hole to 927 ft.

10-in. diameter "Johnson" stainless steel screens and 0.365"-wall casing (see Detail A)

"CSSI" #8-12 graded filter-pack (11 yards³) tagged during installation to confirm placement

Centralizers on tailpipe, and blanks

Detail A
Screen Settings

SCALE:
Vertical: 1" = 50 ft.
Horiz.: 0.1" = 1 in.

Headpipe
685'9"
40-slot
696'9"
Blank
733'7"
30-slot
764'8"
Blank
777'8"
35-slot
794'1"
20-slot
799'7"
Tight-wrap
805'1"
20-slot
810'6"
35-slot
831'0"
30-slot
871'8"
35-slot
912'1"
Tailpipe
922'0"

Screen slot-size/setting based on UWID Geoscience sieve analysis of drill cuttings and geophysical logging

Detail B
Removable 20"-to-10" packer and Receiver

18½"

658'8" top of packer

Neoprene Figure-K seal

Bell reducer

Packer

Centralizers

10-in. (0.3125"-wall) casing

Machined chamfer to seat into receiver

4¼"

663'8" bottom of packer

663' top of receiver

14-in. O.D. funnel/ guide (0.250"-wall)

Receiver

11¾-in. O.D. coupler w/ internal chamfer welded to top of 10-in. (0.365"-wall) casing

Centralizers (4) (0.250"-plate)

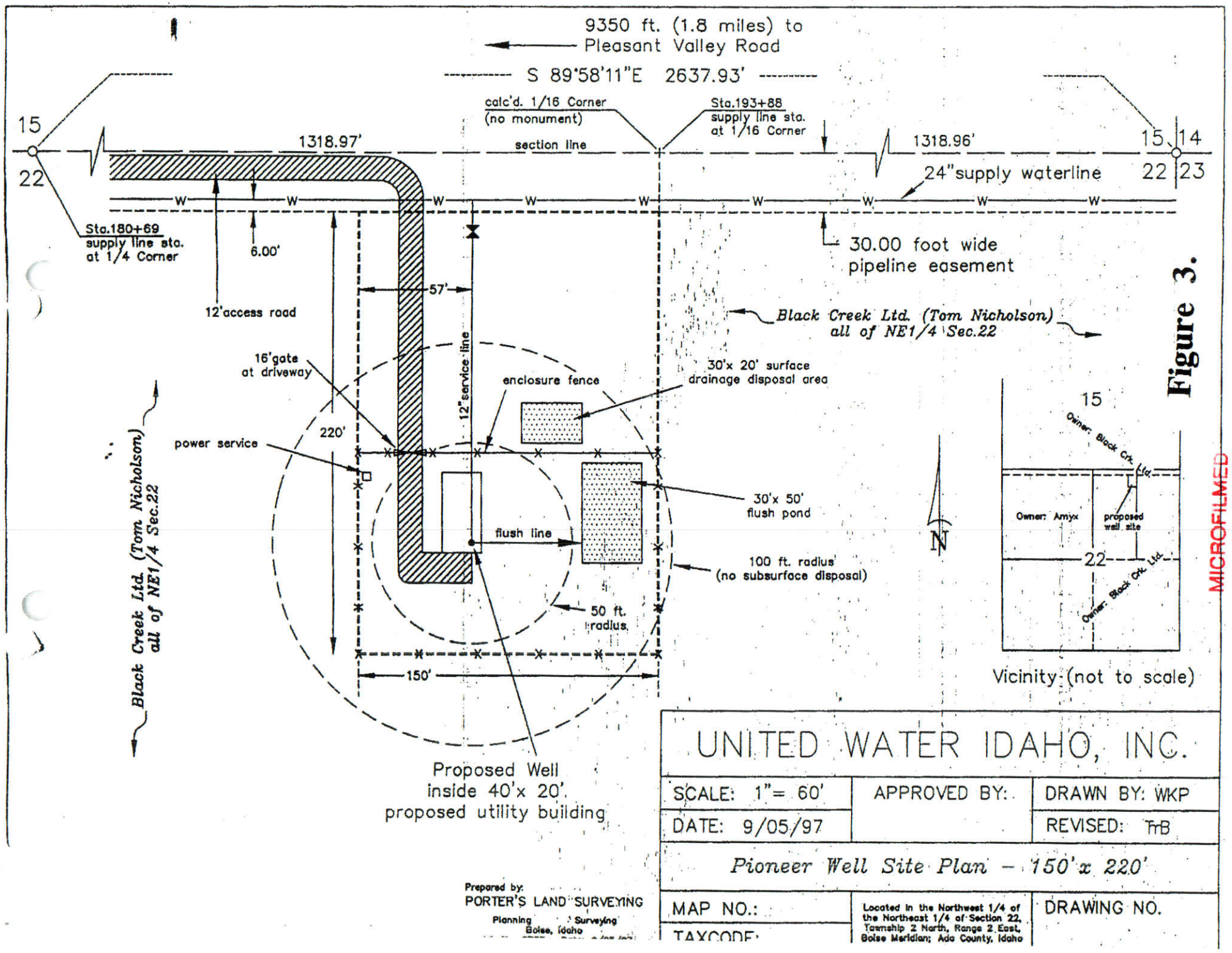
1¼-in. diameter lift tubes w/ capped tops

SCALE:
Vertical: 1" = 2 ft.
Horiz.: 0.1" = 2 in.

head pipe

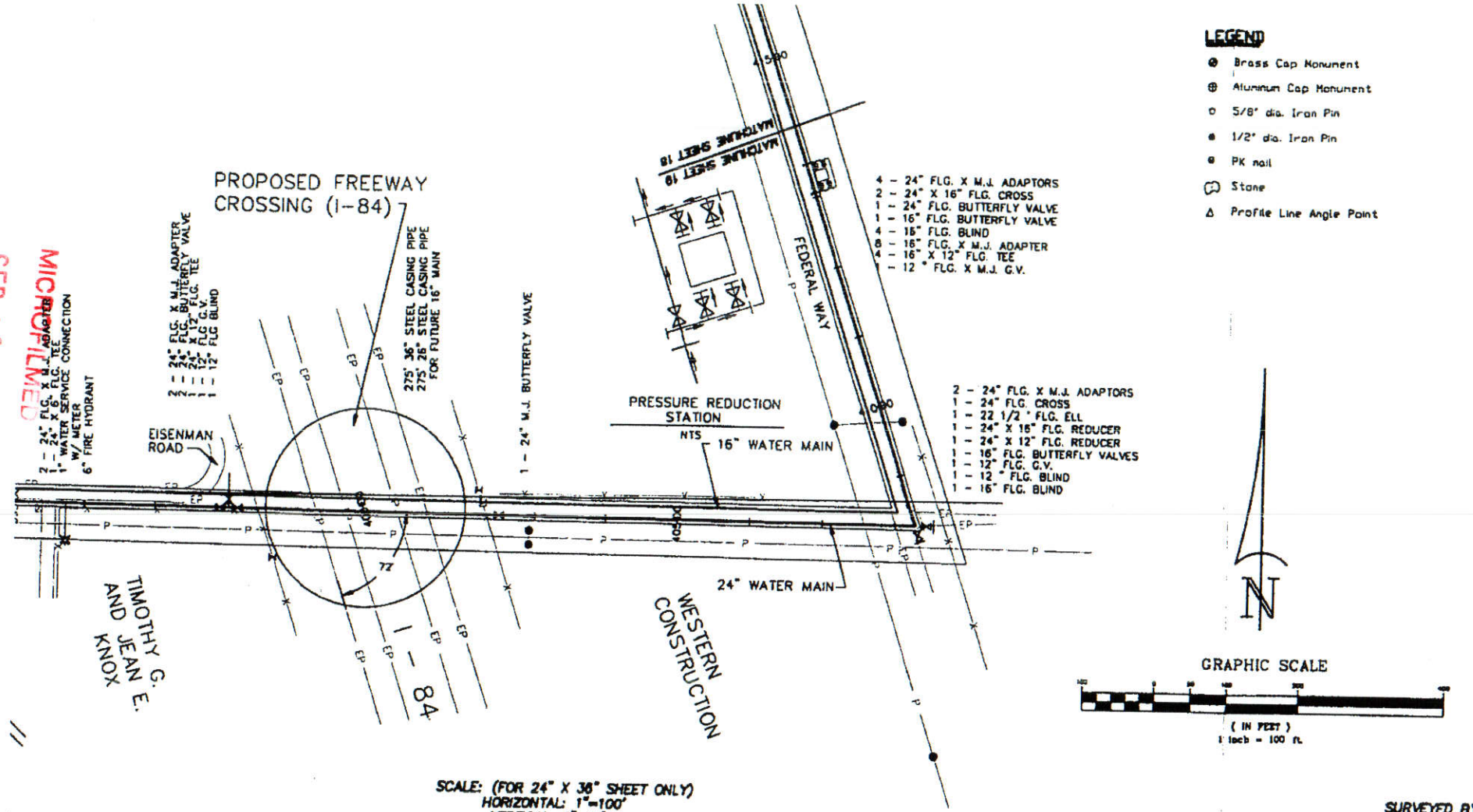
UWID Geosciences
1/98

MICROFILMED
SEP 19 2001



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SEP 19 2001

SEP 19 2001
MICROFILMED

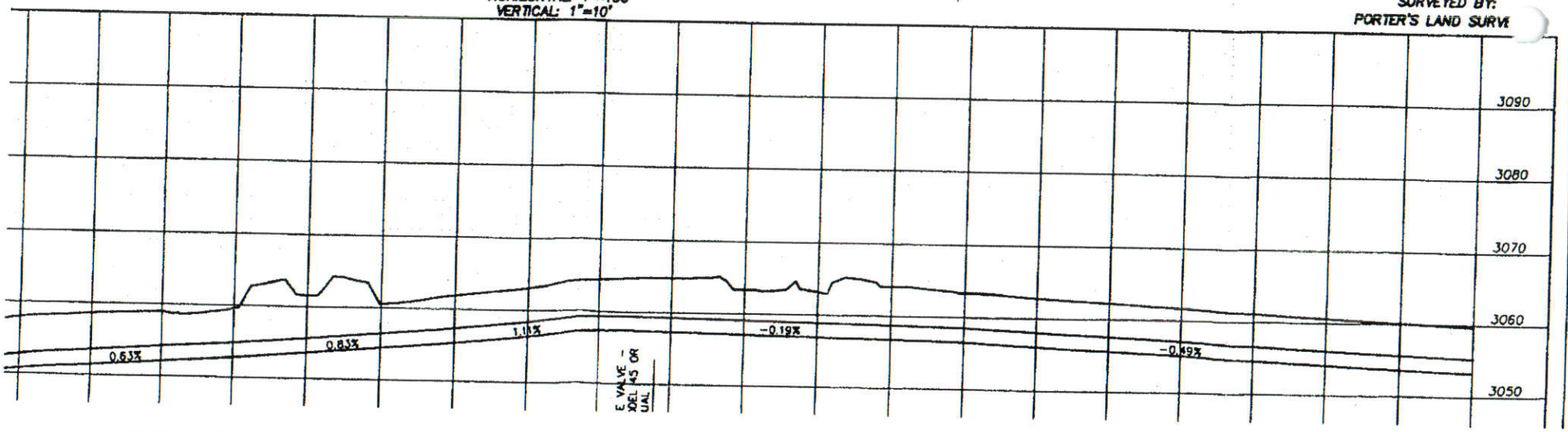


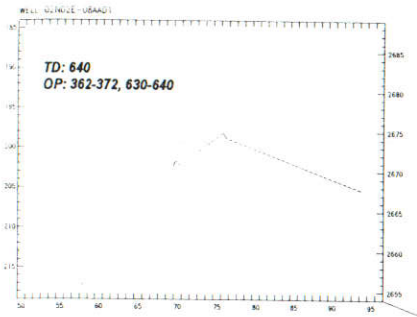
LEGEND

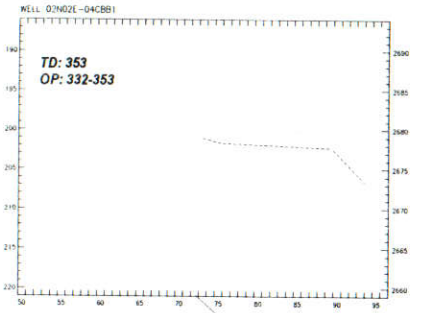
- Brass Cap Monument
- Aluminum Cap Monument
- 5/8" dia. Iron Pin
- 1/2" dia. Iron Pin
- PK nail
- Stone
- Profile Line Angle Point

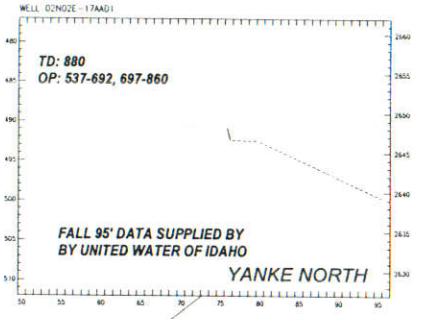
SCALE: (FOR 24" X 36" SHEET ONLY)
HORIZONTAL: 1"=100'
VERTICAL: 1"=10'

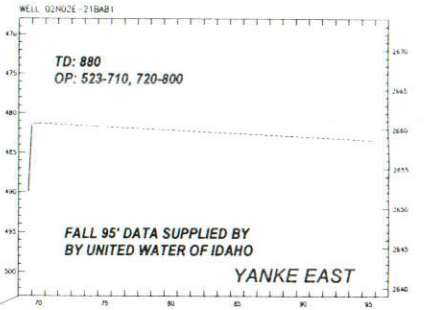
SURVEYED BY:
PORTER'S LAND SURVE

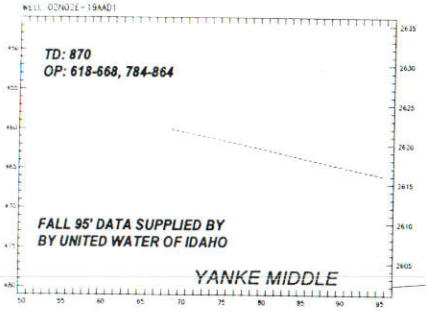


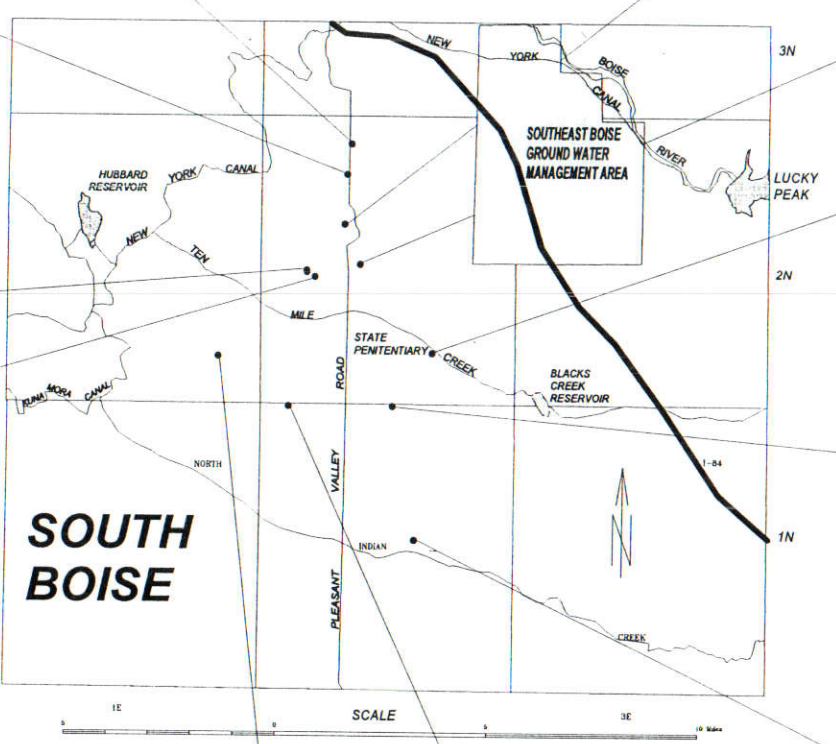


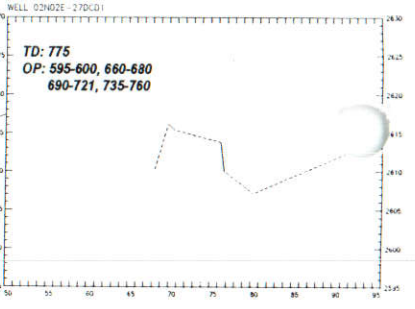


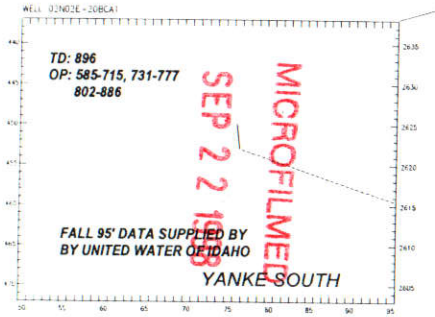




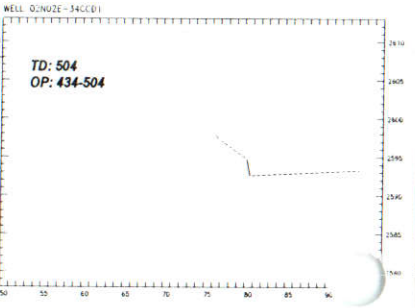








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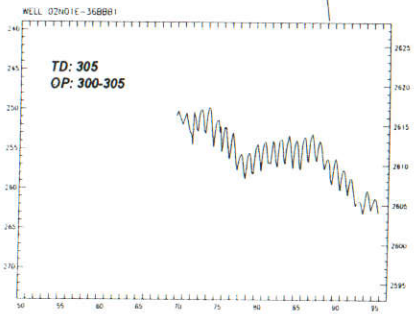
GROUND WATER HYDROGRAPHS

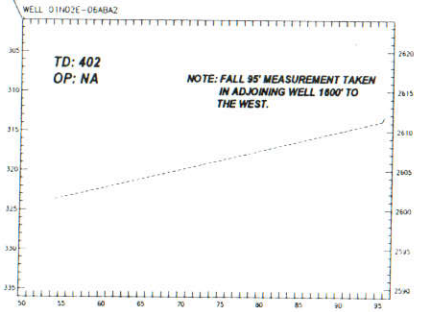
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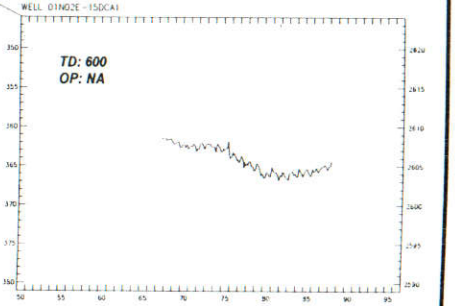
TD: TOTAL DEPTH
OP: INTERVAL AT WHICH THE
WELL IS PERFORATED OR
OPEN TO THE AQUIFER.
LEFT SIDE: DEPTH TO WATER
RIGHT SIDE: WATER ELEVATION
BASE: YEAR
ALL MEASUREMENTS IN FEET

– – – – SPOT MEASUREMENTS

———— MEASURED FREQUENTLY ON A YEARLY BASIS



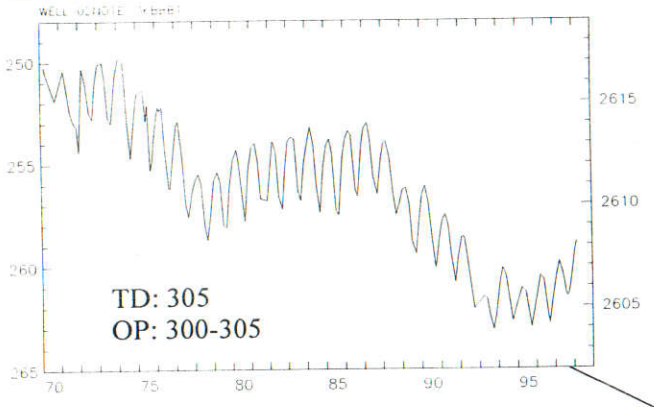


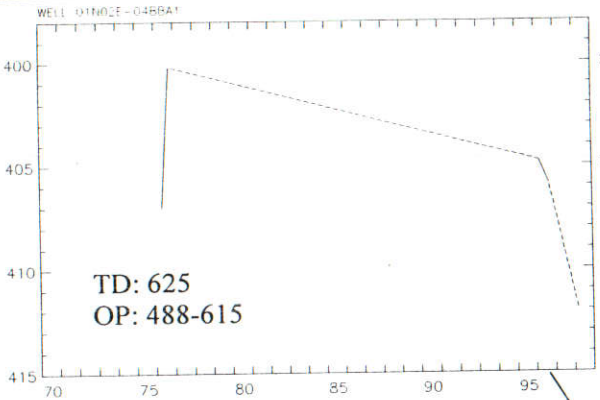


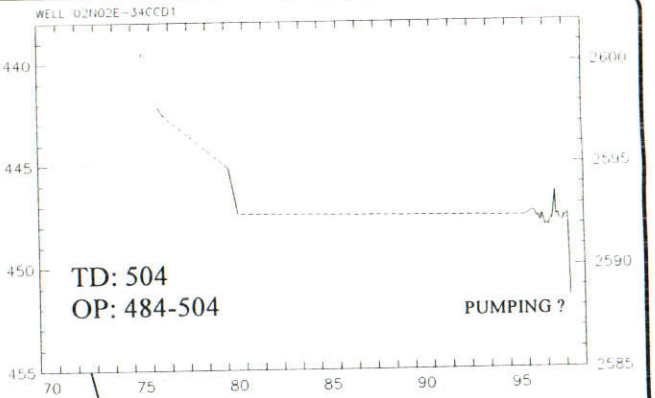
PREPARED BY THE IDAHO DEPARTMENT OF WATER RESOURCES

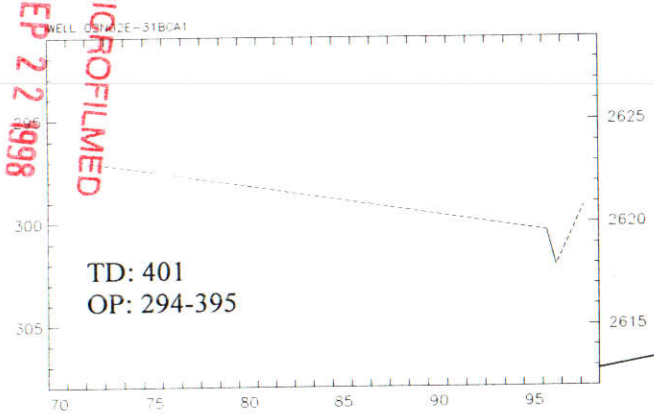
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SEP 2 2 1998

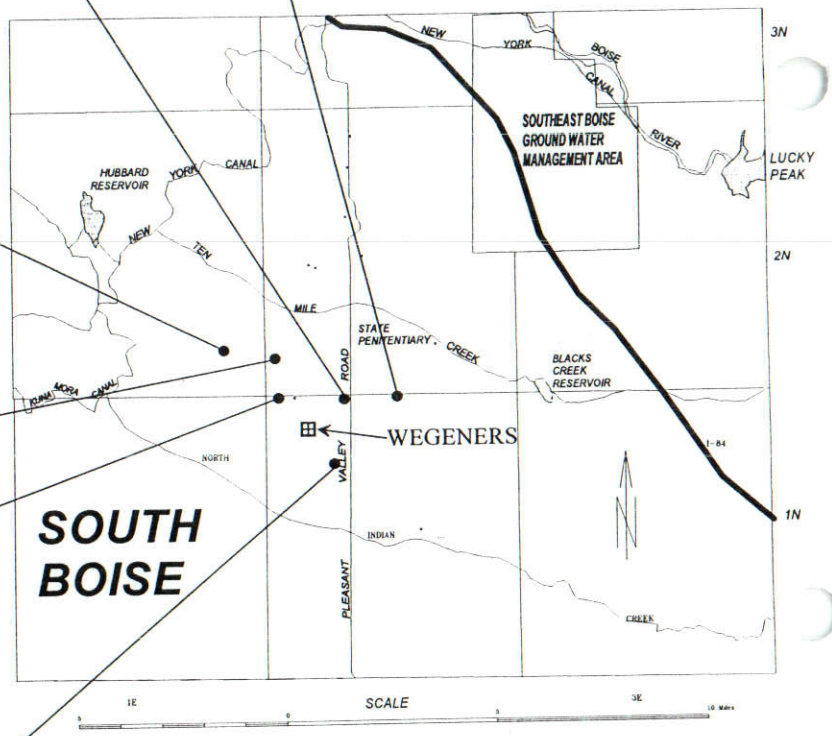
GROUND WATER HYDROGRAPHS



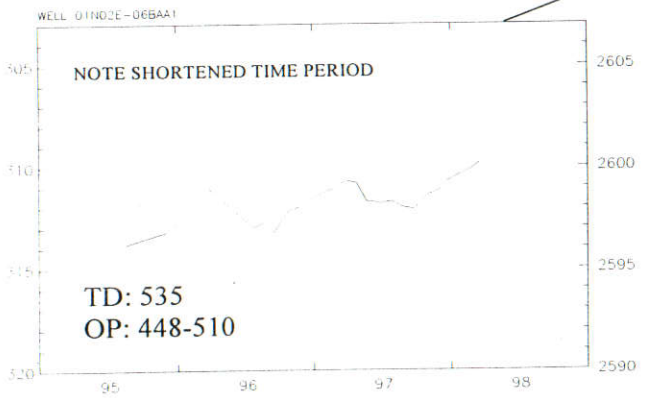


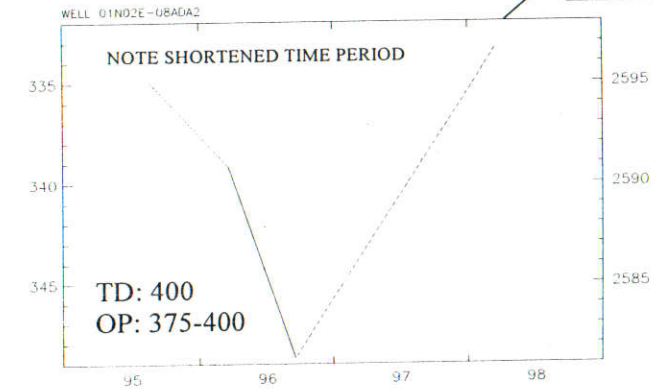






• WELL LOCATION





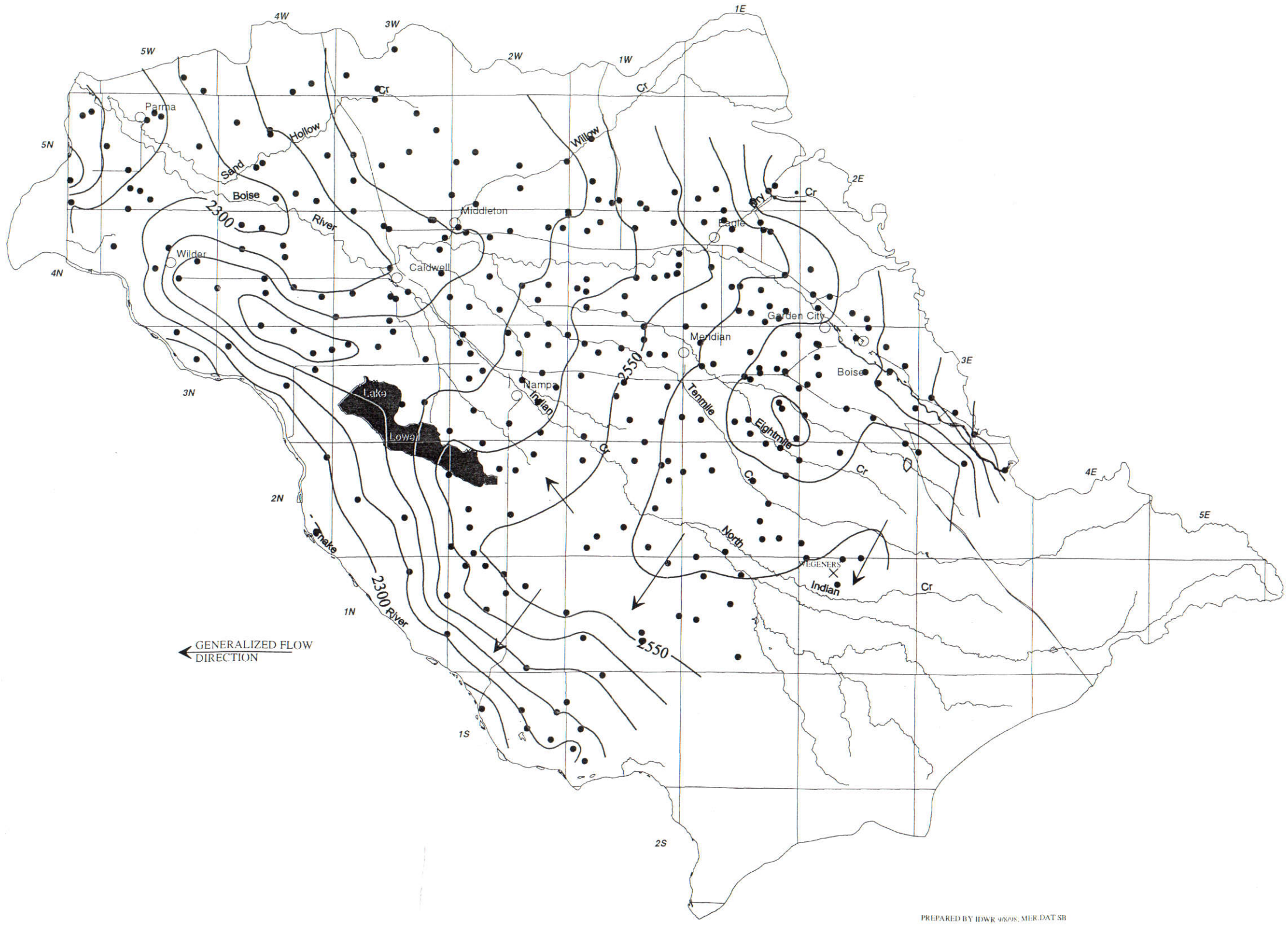
LEGEND

TD: TOTAL DEPTH
OP: INTERVAL AT WHICH THE WELL IS PERFORATED OR OPEN TO THE AQUIFER.
LEFT SIDE: DEPTH TO WATER
RIGHT SIDE: WATER ELEVATION
BASE: YEAR
ALL MEASUREMENTS IN FEET
CURRENT TO SPRING 1998

JULY '98 SB

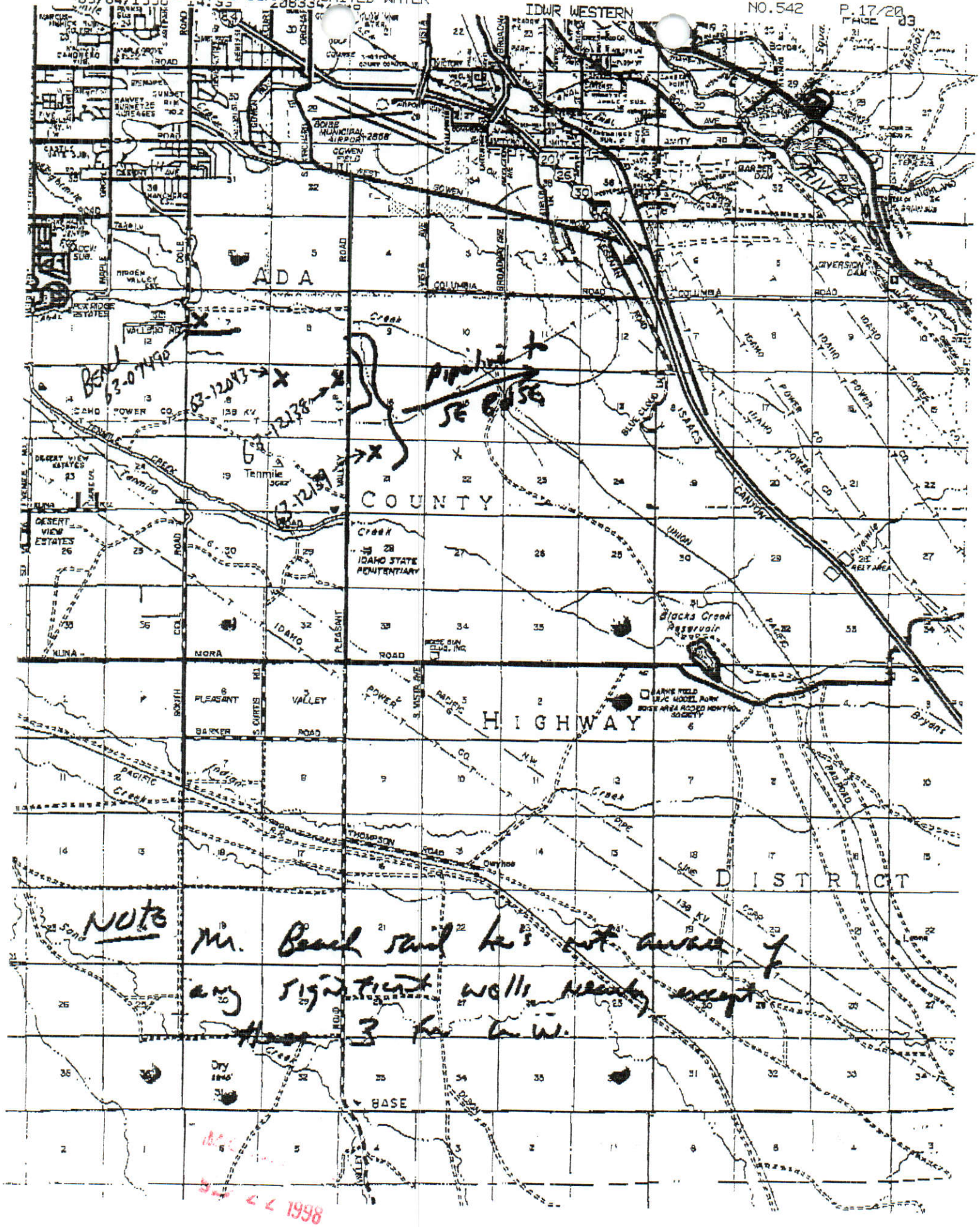
TREASURE VALLEY

GROUND WATER ELEVATIONS



GENERALIZED FLOW DIRECTION

PREPARED BY IDWR 9/8/98, MER.DAT SB



BEND 63-07440 → X

63-12043 → X

63-12138 → X

63-12139 → X

Pipeline + SE Corner

Note Mr. Beard said he's not aware of any significant wells nearby except Hoop 3 for the W.

SEP 2 7 1998

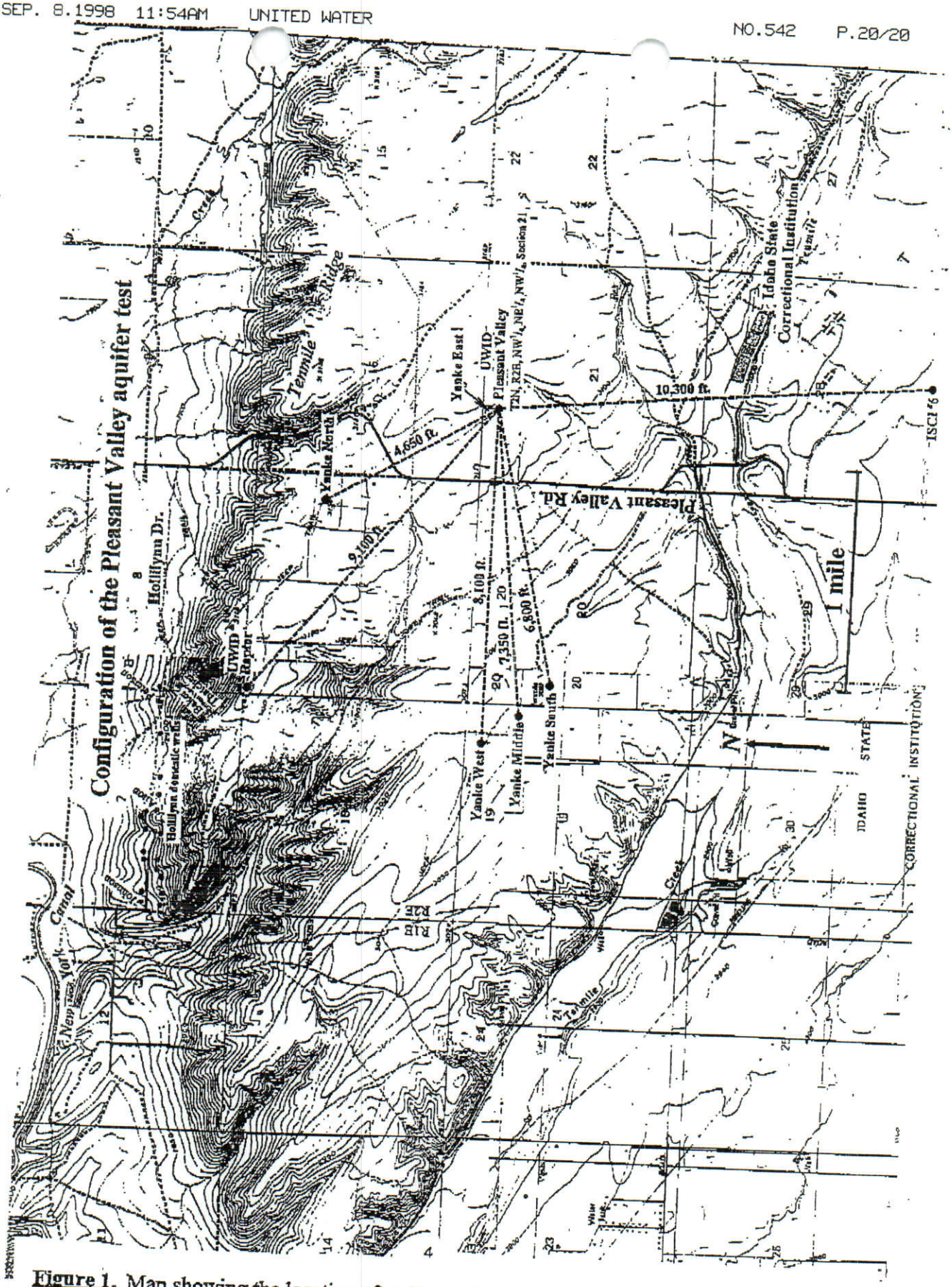
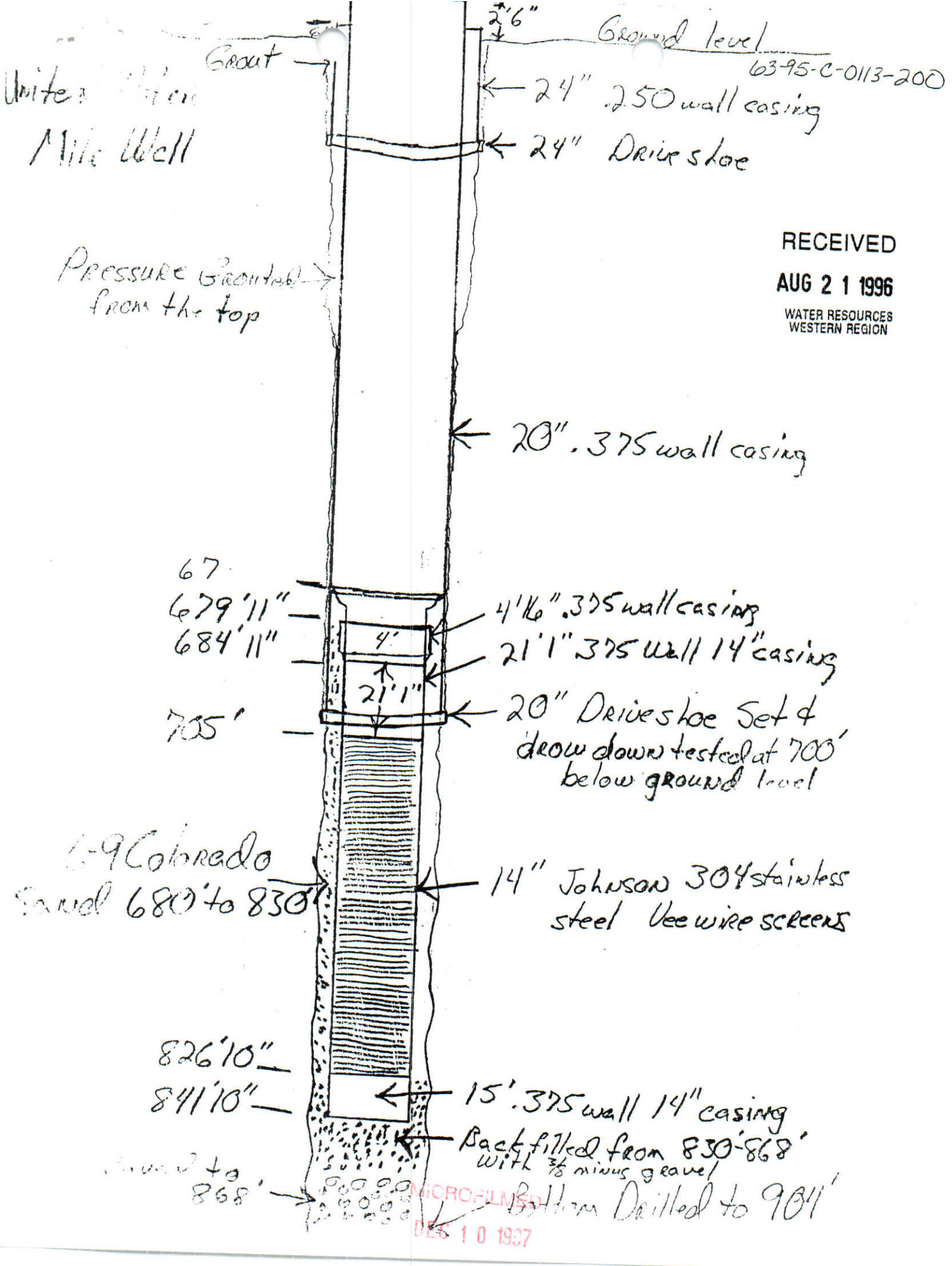


Figure 1. Map showing the location of wells monitored during water-level data collection for Groundwater Conditions and Aquifer Testing of the Tenmile Ridge Area of South Boise, Ada County, Idaho.

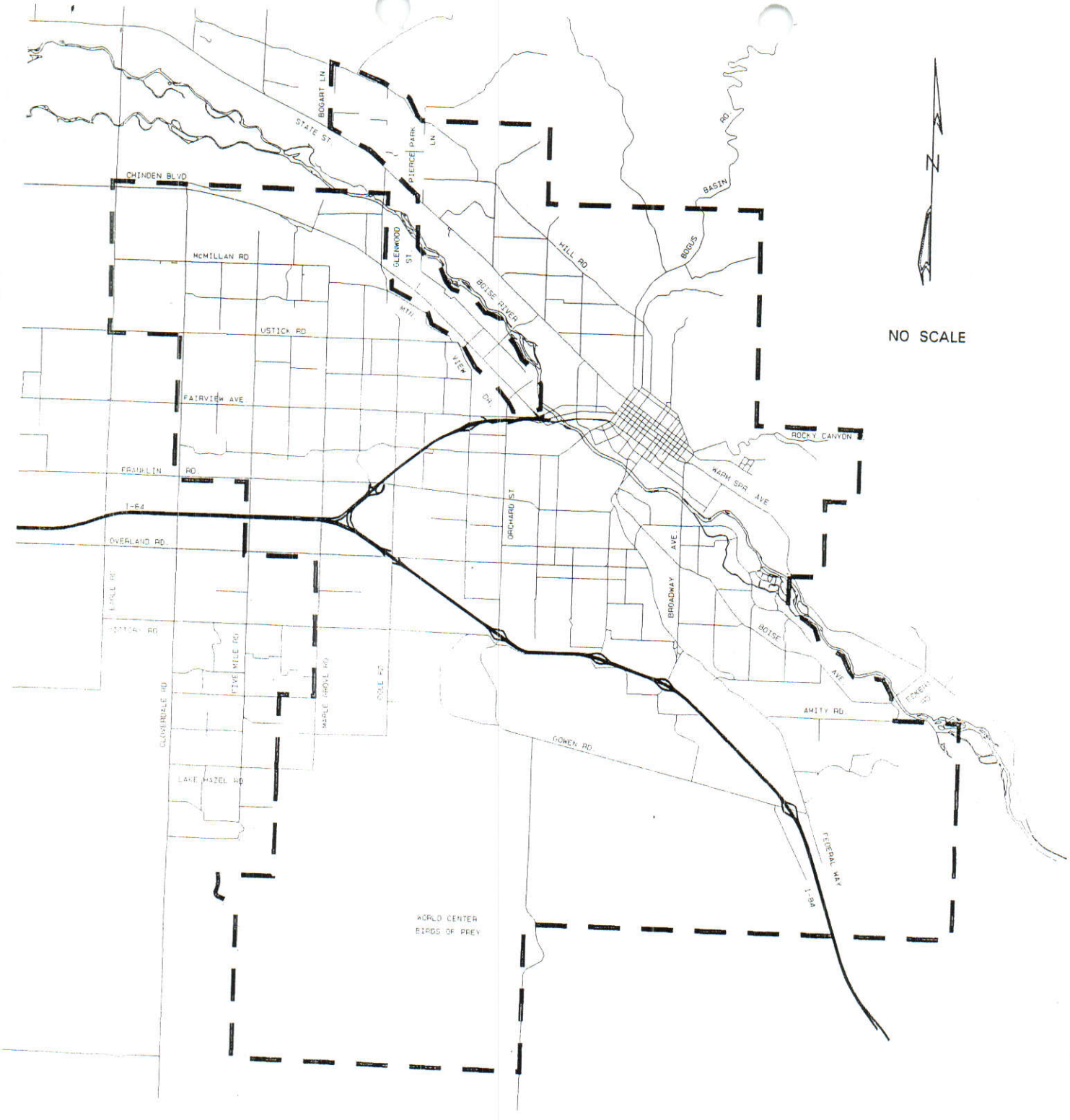
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SEP 2 2 1998

MICROFILMED
SEP 22 1998



RECEIVED
AUG 2 1 1996
WATER RESOURCES
WESTERN REGION

MICROFILMED
DEC 1 0 1997



BOISE WATER CORPORATION
AREA OF CERTIFICATION

CERTIFICATION BOUNDARY

RECEIVED
MAR 29 1995

State of Idaho
Department of Water Resources

Water Right License

WATER RIGHT NO. 63-12138

Priority: August 19,1994 Maximum Diversion Rate: 3.90 CFS

It is hereby certified that UNITED WATER IDAHO
8248 W VICTORY RD
PO BOX 7488
BOISE ID 83707-1488 has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated August 19, 1994; and has submitted Proof of Beneficial Use on October 27, 2000. An examination indicates that the works have a diversion capacity of 11.6 cfs of water from:

SOURCE
GROUND WATER

and a water right has been established as follows:

BENEFICIAL USE	PERIOD OF USE	DIVERSION RATE
MUNICIPAL	1/01 to 12/31	3.90 CFS

LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER	NE1/4SE1/4NE1/4	Sec. 17, Twp 02N, Rge 02E, B.M.	ADA County
GROUND WATER	NW1/4NW1/4NW1/4	Sec. 17, Twp 02N, Rge 02E, B.M.	ADA County
GROUND WATER	NE1/4NW1/4NE1/4	Sec. 22, Twp 02N, Rge 02E, B.M.	ADA County
GROUND WATER	NW1/4NE1/4NW1/4	Sec. 21, Twp 02N, Rge 02E, B.M.	ADA County

CONDITIONS OF APPROVAL

1. 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.
2. Rights 63-12043 and 63-12139 are also diverted through the point(s) of diversion described above.
3. Place of use is within the city limits of Boise and the surrounding area served by United Water Idaho.

This license is issued pursuant to the provisions of Section 42-219, Idaho Code. The water right confirmed by this license is subject to all prior water rights and shall be used in accordance with Idaho law and applicable rules of the Department of Water Resources.

Signed and sealed this 22ND day of AUGUST, 2001.

Acting for KARL J. DREHER
Director

MICROFILMED
SEP 19 2001

Form No. 217
7/94

RECEIVED
OCT 27 2000
Department of Water Resources

FOR OFFICE USE ONLY
Amt. Of Fee $:_____
Reciept No. _____
Receipt By: _____
Date Receipted: _____

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Please direct inquiries to Ed Squires at 342-8369.

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 – 12138** Telephone No. **(208) 362-7345**.
2. Name(s) of Permit Holder(s): **United Water Idaho, Inc.**
3. Mailing Address: **PO Box 7488, Boise, Idaho 83707-1488**
4. Source of Water: **Groundwater** If GROUNDWATER (well), Date Drilled: mo. **7** /yr. **1996**.
   a. Well Driller: Stevens and Sons Well Drilling Drilling Permit Number: **63 - 95-C - 0113 - 200 -**
   b. OPTIONAL:
   Pump Horsepower: **300** Pressure (psi): **~65** Dynamic pumping level (ft) **~570**.
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: **3.90** 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 **X** or No _____.
   Has the measuring device been installed? Yes **X** or No _____.
   Flow Measurement Port: Is a flow measurement port required? Yes **X** or No _____.
   Has the measurement port been installed? Yes **X** or No _____.
8. Fee Enclosed: $ **N/A** (See Fee Schedule on back of the instructions for the filing proof of beneficial use)
9. Person to contact to accompany the Department representative during field examination of the water system.
   Name: **Field examination to be conducted by Ed Squires, Hydro Logic, Inc.** Telephone Number: **342-8369**
   Address: **988 S. Longmont Ave., Boise, ID 83706**
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: E Squires Date: 10-27-00
Ed Squires – Consultant to United Water Idaho, Inc.)

MICROFILMED
SEP 13 2001

Receipted by - JM
Date - 2-23-00
Amt. $ 50.00
Receipt # C048179

RECEIVED
FEB 23 2000
Department of Water Resources

Form No. I-204
7/94

STATE OF IDAHO
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. 63-12138

Name(s) of Permit Holder: United Water Idaho, Inc. ("UWID")

Mailing Address: 8248 W. Victory Road, Boise, Idaho 83707

Date Proof is Due: 3/1/00 Telephone No. (208) 362-1300

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".)

Permit 63-12138 authorizes diversion of 3.9 cfs from 4 wells for municipal purposes. UWID has drilled all four wells, installed pumps on all the wells, constructed a reservoir tank, installed a twenty-four inch main line connecting the wells and the reservoir tank, and installed a main line connecting the reservoir tank with UWID's interconnected municipal delivery system. Costing $ Approximately 3 million

The permit holder(s) has been unable to complete the remainder of the work for the following reasons:

UWID is in the process of filing a comprehensive transfer package affecting all of its rights. This transfer package includes applications to amend all existing permits, including permit 63-12138, into permits to appropriate water for anticipated customer demand in UWID's planning horizon. The proposed amendment will significantly alter the type of proof required by UWID. Once amended, proof of application to beneficial use for the permit will include an estimate of future needs, a description of the planning area and a planning horizon rather than proof of actual use. Although the transfer application package contains all this required information, the amendment application for this permit is part of a large transfer application package and may not be processed prior to the Mach 01, 2000 filing deadline. UWID flies this request for extension to ensure that the proposed amendment is processed prior to the deadline for filing proof of beneficial use.

Permit holder(s) request an extension to March 1, 2002.

Fee: $50.00

(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 APPROVED and the time within which to submit proof of beneficial use is extended to March 1, 2002.

MICROFILMED

Signed this 1st day of March MAR 20 2000, 2000.

STATE OF IDAHO

L. Glen Saxton, Chief Water Allocations Bureau

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

AMENDMENT OF PERMIT

PERMIT NO. 63-12138

This is to certify, that UNITED WATER IDAHO
PO BOX 7488
BOISE ID 83707-1488
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: August 19, 1994

BENEFICIAL USE	PERIOD OF USE	RATE OF DIVERSION
MUNICIPAL	01/01 to 12/31	3.90 CFS

LOCATION OF POINT(S) OF DIVERSION:

SENE , Sec. 17, Township 02N, Range 02E
NWNW , Sec. 17, Township 02N, Range 02E
NENW , Sec. 21, Township 02N, Range 02E
NWNE , Sec. 22, Township 02N, Range 02E
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 **March 1, 2000.**
2. Subject to all prior water rights.
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 issuance of this right does not grant any right-of-way or easement across the land of another.
5. Place of use is within the city limits of Boise and the surrounding area served by United Water Idaho.

Witness my hand this 9th day of September, 1998

L. Glenn Saxton
Chief, Water Allocation Bureau

MICROFILMED

SEP 22 1998

Based on IDWR
Form 211
10/93

Receipt No. W024009
Received by AT
Date 6-12-98

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR AMENDMENT OF A PERMIT

Applicant *United Water Idaho (UWID)*[1] Phone *208-362-1704*

Address *8248 W. Victory Road, P.O. Box 7488, Boise, ID 83707-1488*

I am the owner and holder of Permit to Appropriate the Public Waters of the State of Idaho No. *63-12138*, 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 ☐ Change period of use ☐ Other *see footnote*[2]

1. Point(s) of Diversion:

Lot	¼	¼	¼	Sec.	Twp.	Rge.	County	Local name for diversion
	NE	*SE*	*NE*	*17*	*2N*	*2E*	*Ada*	*Tenmile Well*
	NW	*NW*	*NW*	*17*	*2N*	*2E*	*Ada*	*Raptor Well*
	NW	*NE*	*NW*	*21*	*2N*	*2E*	*Ada*	*Pleasant Valley Well*
		NW	*NE*	*22*	*2N*	*2E*	*Ada*	*Pioneer Well*

2. Period and nature of use: (irrigation, domestic, stockwatering, industrial, etc.)

amount *3.90 cfs* (cfs/acre feet per annum) for *municipal* (water use) purposes from *01/01* (begin month) to *12/31* (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 UWID'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? *UWID*

b. Who owns the land to be irrigated at the place of use? *Not applicable to a municipal water right.*

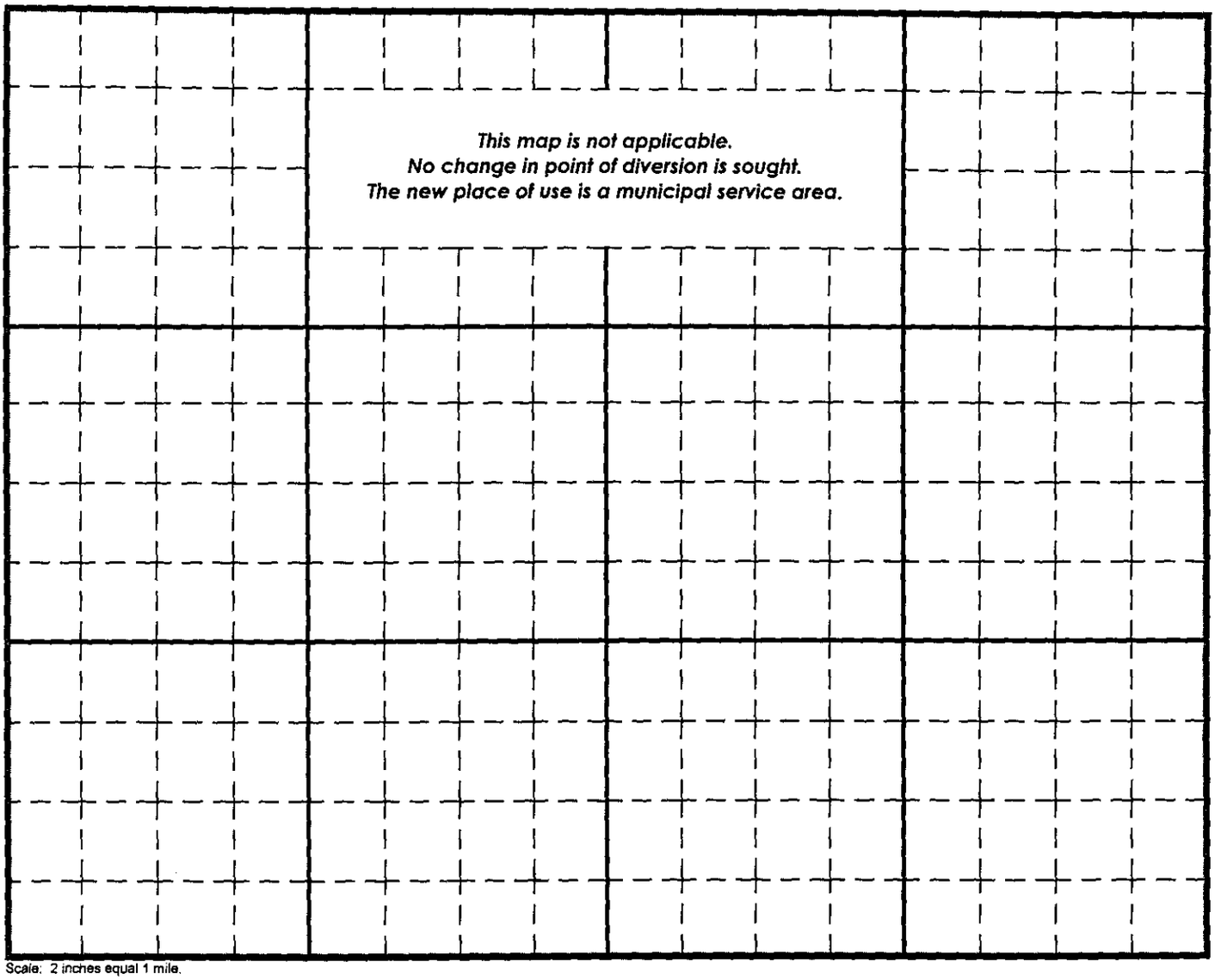
c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing: *Not applicable to a municipal water right.*

MICROFILMED
SEP 22 1998

[1] *For corporate officers, see UWID's most recent Description of Municipal Service Area, on file with the Department.*

[2] *The existing permit is for municipal use. UWID 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 as a regular municipal water right, without domestic limitations. However, UWID 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.*

Complete the following map by showing land and point of diversion as proposed by this amendment.
Show 1/4 1/4, section, township, range and ditches. (The smallest subdivision represents 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 12th day of June, 1998. E Squires

Edward Squires, Hydrogeologist, for UWID (Permit Holder)

ACTION OF THE DEPARTMENT OF WATER RESOURCES

Preliminary check by RL for GS Publication prepared by AT Date 6-12-98

Published in Id. Statesman Pub. dates 6-18 & 25-98

I, _____, of the Department of Water Resources hereby

Witness my hand this _____ day of _____.

MICROFILMED

SEP 22 1998

S:\Clients\30\82\IDWR\1998-06-12 Application for Amendment of Permit (63-12138).wpd

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

AMENDMENT OF PERMIT
PERMIT NO. 63-12138

This is to certify, that UNITED WATER IDAHO
8248 W VICTORY RD
BOISE ID 83709
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: August 19, 1994

BENEFICIAL USE	PERIOD OF USE	RATE OF DIVERSION
MUNICIPAL	01/01 to 12/31	3.90 CFS

LOCATION OF POINT(S) OF DIVERSION:

SENE , Sec. 17, Township 02N, Range 02E
NWNW , Sec. 17, Township 02N, Range 02E
NENW , Sec. 21, Township 02N, Range 02E
NWNE , Sec. 22, Township 02N, Range 02E
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 **March 1, 2000.**
2. Subject to all prior water rights.
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 issuance of this right does not grant any right-of-way or easement across the land of another.
5. The irrigation occurring under this domestic use shall not exceed 1/2 acre within each platted subdivision lot upon which a home has been constructed.
6. The domestic use authorized under this right shall not exceed 13,000 gallons per day per home.
7. Irrigation of large projects such as parks, golf courses, or sports activities fields is not authorized under this right.

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DEC 1 0 1997

PERMIT NO. 63-12138

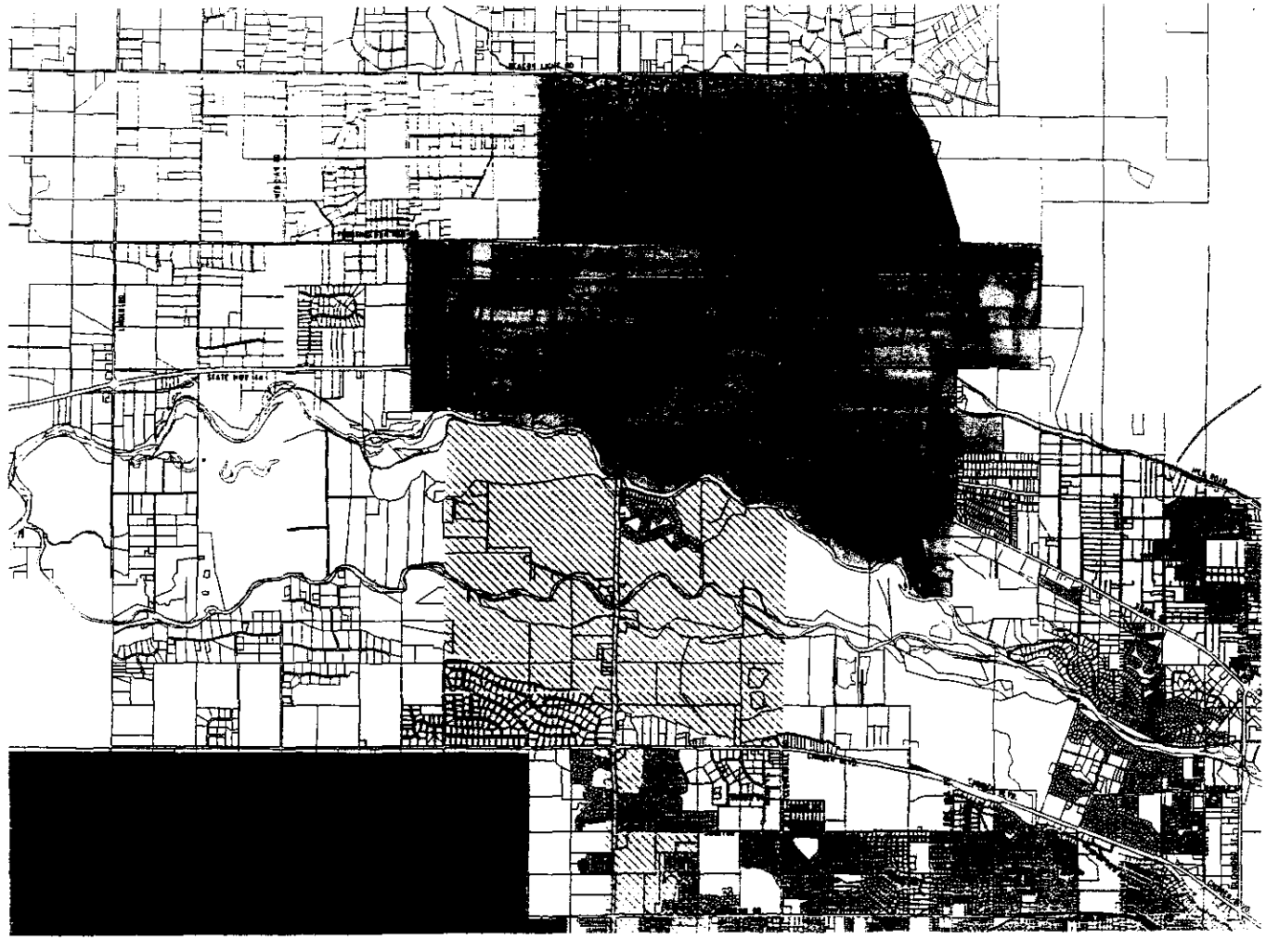
CONDITIONS OF APPROVAL AND REMARKS

8. The daily diversion volume for the non-domestic uses authorized under this permit shall not exceed 2,500 gallons per day in accordance with the provisions of Section 42-111, Idaho Code.
9. Place of use is within the city limits of Boise and the surrounding area served by United Water Idaho.

Witness my hand this 10th day of November, 1997.

L. Glen Saxton
Chief, Water Allocation Bureau

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DEC 10 1997



UNITED WATER IDAHO

CITY OF EAGLE WATER SYSTEM

CITY OF MERIDIAN

RAINTREE MUTUAL WATER COMPANY

EAGLE WATER COMPANY

UNDEFINED

UnitedWater

NO SCALE

THIS DRAWING IS TO BE USED ONLY FOR REFERENCE PURPOSES AND UNITED WATER IS NOT RESPONSIBLE FOR ANY INACCURACIES HEREIN CONTAINED.

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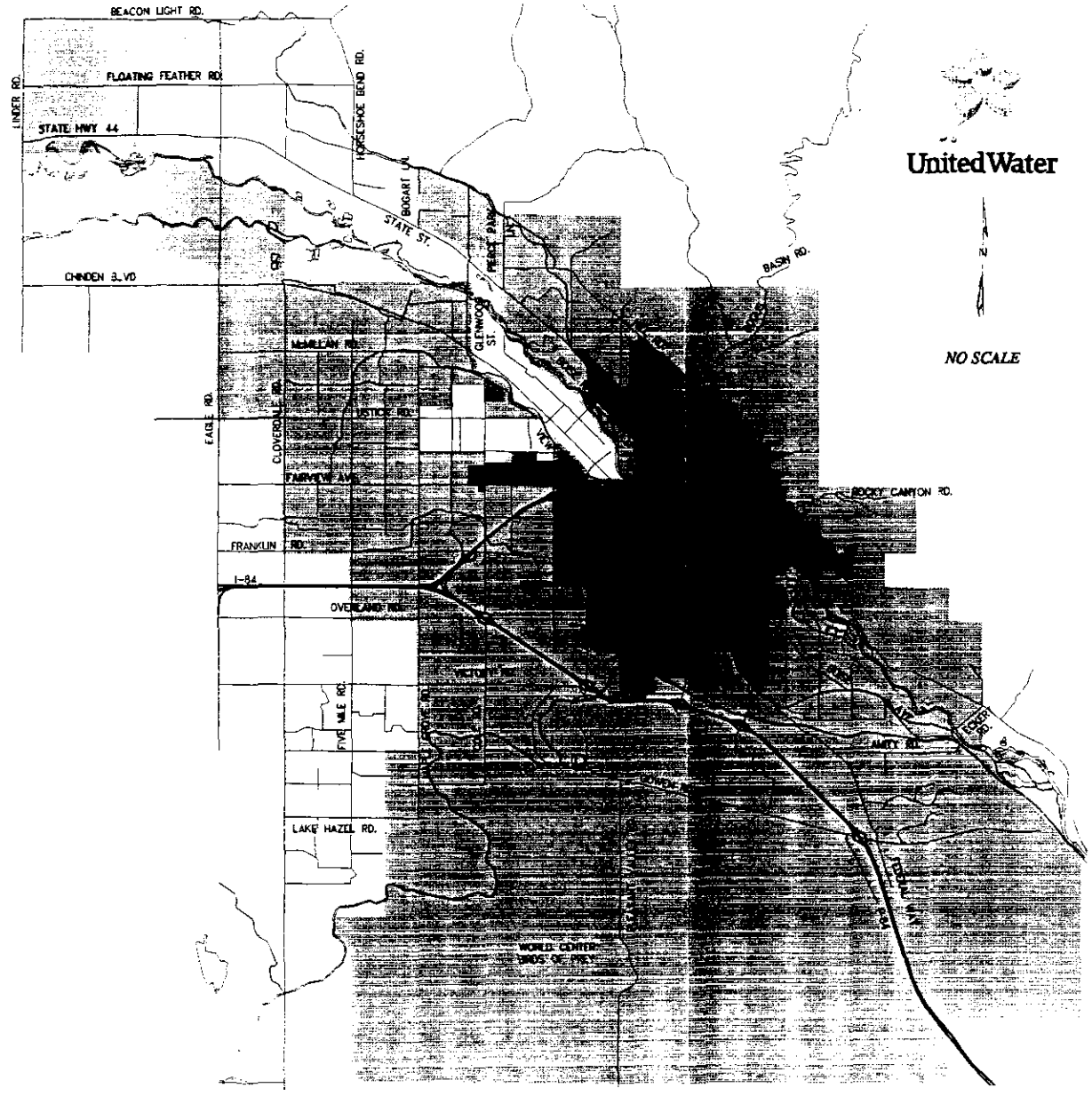
REVISED DATE: 11-06-97

United Water Idaho's changing

service boundary as

certified by the

Idaho Public Utilities Commission



BOUNDARY - JULY 1958

BOUNDARY - 1996

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REVISED DATE: 12-05-96

10/93

Receipt No. _____
Receipted By _____
Date _____
W023021

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SEP 10 1997
WATER RESOURCES
WESTERN REGION

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR AMENDMENT OF A PERMIT

Applicant United Water Idaho, Inc. Phone 362-7332

Address 8248 West Victory Road, Boise, ID 83709

I am the owner and holder of Permit to Appropriate the Public Waters of the State of Idaho No. 63-12138, 12139, 12043, and request that the permit and permit map be amended and/or changed as follows:

Purpose of Amendment: X Change point of diversion X Add point of diversion

X Change place of use _____ Change nature of use _____ Change period of use _____ Other

1. Point of diversion: ¼ NW ¼ NE ¼, Section 22, Township 2N, Range 2E, B.M., County of Ada. Other points of diversion See attached table.

2. Period and nature of use: (irrigation, domestic, stockwatering, industrial, etc.)

Amount _____ (cfs or acre feet per annum) for _____ (water use) purposes from _____ (Begin month) to _____ (End month). (both dates inclusive)

Amount _____ (cfs or acre feet per annum) for _____ (water use) purposes from _____ (Begin month) to _____ (End month) (both dates inclusive)

Amount _____ (cfs or acre feet per annum) for _____ (water use) purposes from _____ (Begin month) to _____ (End month) (both dates inclusive)

3. Place of use or land to be irrigated: See Attached Service Area Map.

T wp	R ge	S ec	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

The expanding service area of United Water Idaho, Inc. as described in the attached cover letter dated 4 September, 1997.

Total number of acres to be irrigated = _____

4. a. Who owns the property at the point of diversion? See c. below.

b. Who owns the land to be irrigated at the place of use? United Water Idaho customers.

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing:

These are municipal rights. Raptor well is on property leased by United Water Idaho from The Peregrine Fund under a long term lease. Tenmile, Pleasant Valley, and the proposed new well properties are on properties leased from Blacks Creek Ltd. Partnership and from Pleasant Valley Ltd. Partnership.

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DEC 10 1997

10/93

Receipt No. WU 30021 P.02
Receipted By [illegible]
Date 9-5-97

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR AMENDMENT OF A PERMIT

Applicant United Water Idaho, Inc. Phone 362-7332

Address 8248 West Victory Road, Boise, ID 83709

I am the owner and holder of Permit to Appropriate the Public Waters of the State of Idaho No. _____, and request that the permit and permit map be amended and/or changed as follows:

Purpose of Amendment: X Change point of diversion X Add point of diversion

X Change place of use _____ Change nature of use _____ Change period of use _____ Other

1. Point of diversion: _____ ¼ NW ¼ NE ¼, Section 22, Township 2N, Range 2E, B.M., County of Ada. Other points of diversion See attached table.

2. Period and nature of use: (irrigation, domestic, stockwatering, industrial, etc.)

Amount _____ (cfs or acre feet per annum) for _____ (water use) purposes from _____ (Begin month) to _____ (End month) (both dates inclusive)

Amount _____ (cfs or acre feet per annum) for _____ (water use) purposes from _____ (Begin month) to _____ (End month) (both dates inclusive)

Amount _____ (cfs or acre feet per annum) for _____ (water use) purposes from _____ (Begin month) to _____ (End month) (both dates inclusive)

3. Place of use or land to be irrigated: See Attached Service Area Map.

T wp	R ge	S ec	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

The expanding service area of United Water Idaho, Inc. as described in the attached cover letter dated 4 September, 1997.

Total number of acres to be irrigated = _____

4. a. Who owns the property at the point of diversion? United Water Idaho.

b. Who owns the land to be irrigated at the place of use? United Water Idaho customers.

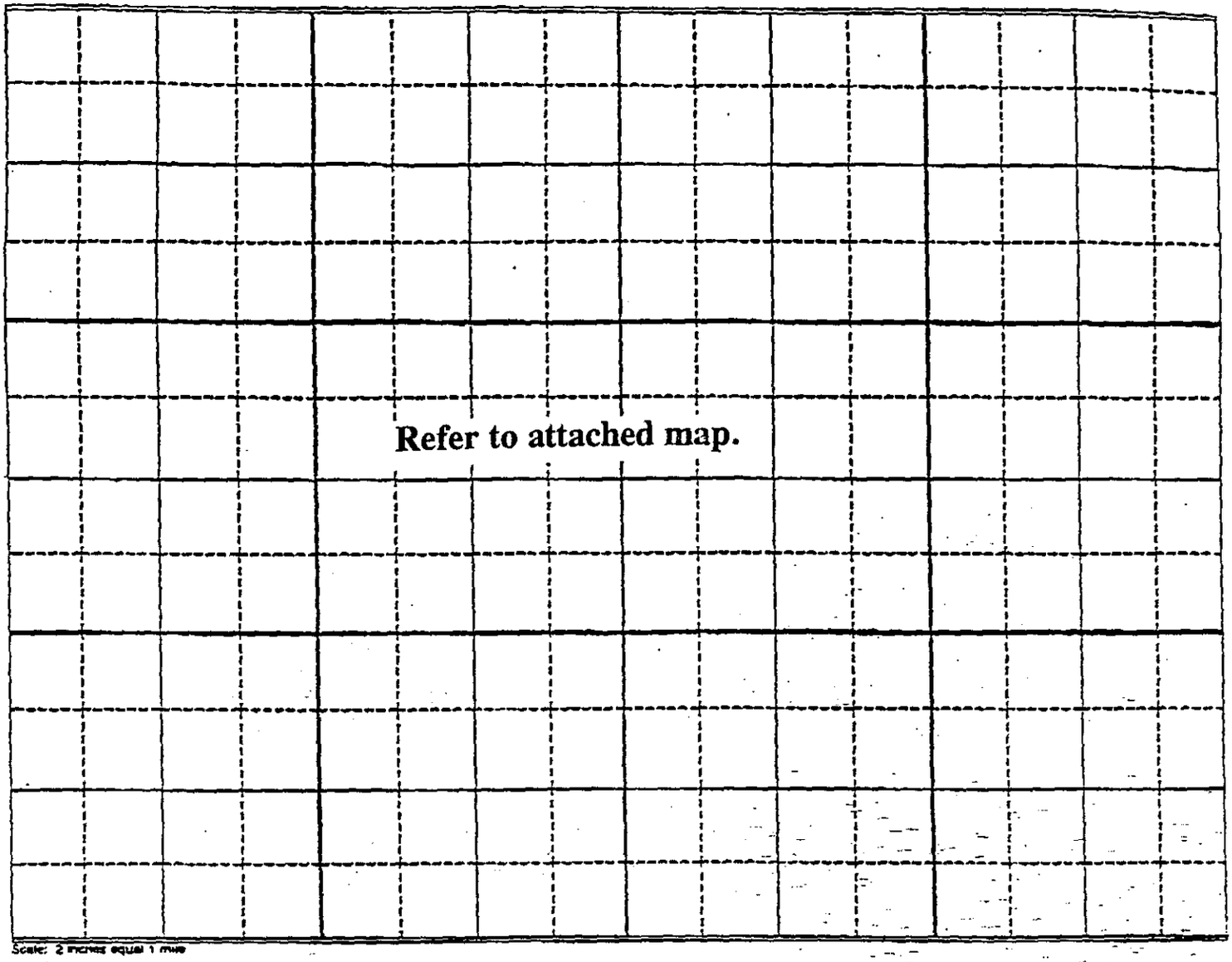
c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing:

These are municipal rights. Raptor well is on property leased by United Water Idaho from The Perigrine Fund under a long term lease.

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DEC 10 1997

Complete the following map by showing land and point of diversion as proposed by this amendment.

Show 1/4 1/4, section, township, range and ditches. (the smallest subdivision represents 40 acres)



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 4 day of September, 19 97. E Squires United Water Idaho
Permit Holder

Receipt # W023021

ACTION OF THE DEPARTMENT OF WATER RESOURCES

Preliminary check by LG Publication prepared by dt Date 9-10-97

Published in Idaho Statesman Publication dates 9-18+25-1997

I, _____, of the Department of Water Resources hereby

_____

_____

Witness my hand this _____ day of _____, 19____.

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DEC 10 1997

_____
SIGNATURE

United Water

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SEP 10 1997
WATER RESOURCES
WESTERN REGION

United Water Idaho
8248 West Victory Road
PO Box 7488
Boise, ID 83707-1488
telephone 208-362-1300
facsimile 208-362-1479

Mr. Gary Spackman
Manager, Western Regional Office
Idaho Department of Water Resources
2735 Airport Way
Boise, ID 83705

September 4, 1997

Subject: Application For Amendment ... daho's south Boise wells.

Dear Gary:

Enclosed for filing is United Water Idaho's (UWID) Application For Amendment of a Permit to: 1) add a point of diversion to the permissible points of diversion for the three water rights subject to this transfer, 2) to list all four wells as points of diversion for each of the three water rights subject to this transfer (without increasing the overall rate of diversion under these rights), 3) to unify the Place of Use for these water rights so that they conform with Idaho's Municipal Water Rights Act, Idaho Code 42-202, 42-202B, 42-217, 42-219, and 42-222, and 4) to correct a typographical error for the location of the point of diversion for Water Right # 63-12138 (Tenmile Well). After the transfer, each of the four wells will serve as an alternate point of diversion for the other three. The addition of another point of diversion is necessary because two of the existing three wells do not have the productive capacity planned for prior to drilling, completion, and testing. The point of diversion for Water Right # 63-12138 was mistakenly recorded on the Permit as the NE, NE 1/4 of section 17, T2N, R2E. The correct location is NE,SE,NE 1/4 Sec. 17, T2N, R3E. The water rights are tabulated below with information pertinent to this transfer.

Water Right No.	Well Name	Priority Date	Location	Diversion Rate	Place of Use
63-12043	Raptor	7/23/1993	T2N, R2E, Sec 17, NW,NW,NW 1/4	4.46 cfs	"Within the city limits of Boise and surrounding area served by Boise Water Corporation"
63-12138	Tenmile	8/19/1994	T2N, R2E, Sec 17, NE,SE,NE 1/4	3.90 cfs	"Within the city limits of Boise"
63-12139	Pleasant Valley	8/19/1994	T2N, R2E, Sec. 21 NW,NE,NW	4.9 cfs	"Within the City Limits of Boise"
	Proposed		T2N, R2E, Sec. 22 NW, NE 1/4		

The Place of Use in this Application is UWID's service area, including future changes in such area. This service area is established, and changed from time-to-time, by order of the Idaho Public Utilities Commission. As the community and surrounding areas grow, and demand for municipal water supplies increases, additional changes will be made to UWID's service area. UWID is a "municipal provider" as defined in the Idaho Code, and is entitled to hold water rights whose place of use is a changing service area, I.C. 42-202B(2) and 42-219.

Please do not hesitate to contact me if you have questions about this application or if there is additional information which we may supply.

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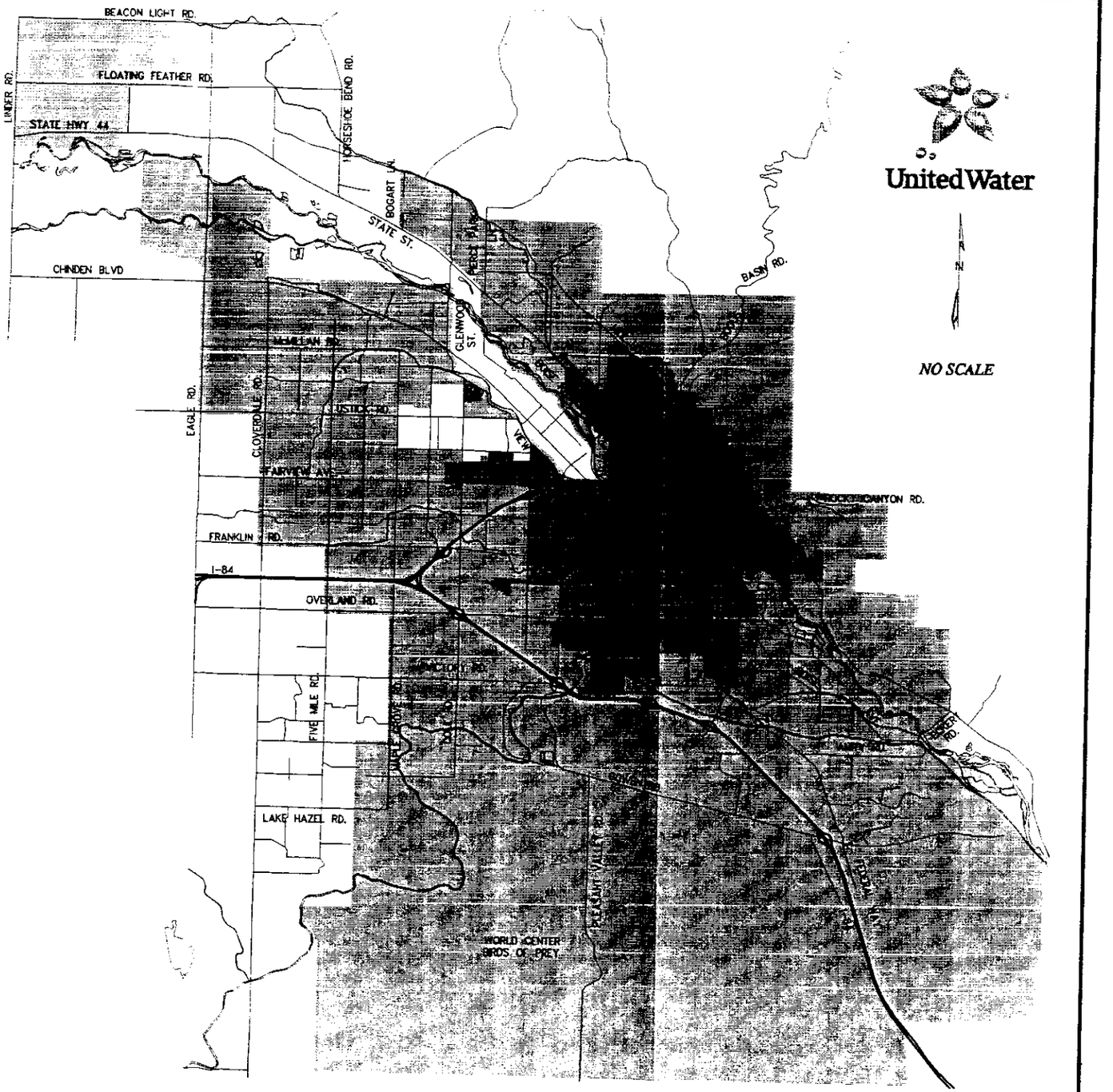
Sincerely,
Ed Squires

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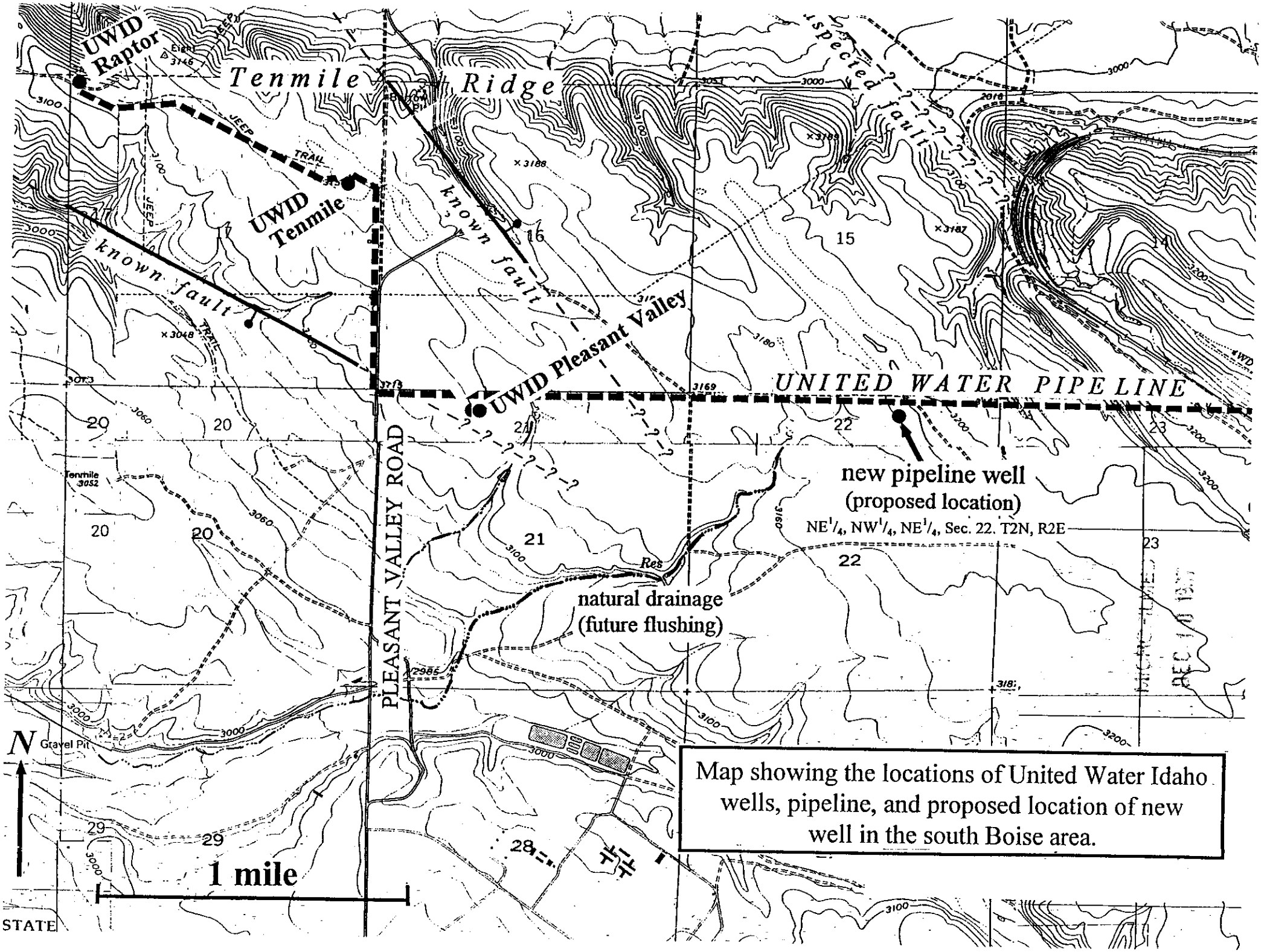
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Map showing the locations of United Water Idaho wells, pipeline, and proposed location of new well in the south Boise area.

State of Idaho
Department of Water Resources

AMENDED **AMENDED**

Permit To Appropriate Water

NO. 63-12138

Proposed Priority: August 19, 1994 Maximum Diversion Rate: 3.90 CFS

This is to certify, that **BOISE WATER CORP**
PO BOX 7488
BOISE ID 83707-7488
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
MUNICIPAL	01/01 to 12/31	3.90 CFS

LOCATION OF POINT(S) OF DIVERSION: NENE , Sec. 17, Township 02N, Range 02E
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 **March 1, 2000.**
2. Subject to all prior water rights.
3. Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which permit holder had no control.
4. 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.
5. The issuance of this right does not grant any right-of-way or easement across the land of another.
6. Place of use is within the city limits of Boise.
7. The daily diversion volume for the non-domestic uses authorized under this permit shall not exceed 2,500 gallons per day in accordance with the provisions of Section 42-111, Idaho Code.
8. The domestic use authorized under this right shall not exceed 13,000 gallons per day per dwelling in accordance with Section 42-111, Idaho Code.
9. This permit authorizes irrigation of up to 1/2 acre within each platted subdivision lot upon which a domestic dwelling has been constructed.
10. Irrigation of large projects such as parks, golf courses, or sports activities fields is not authorized under this permit.

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State of Idaho
Department of Water Resources

AMENDED Permit To Appropriate Water **AMENDED**

NO. 63-12138

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code. Witness the signature of the Director, affixed at Boise, this

7th day of November, 1995

J. Glen Saxton
for

Karl J. Dreher, Director

5 1996

BEFORE THE DEPARTMENT OF WATER RESOURCES

OF THE

STATE OF IDAHO

IN THE MATTER OF PERMIT NOS. 63-12138 AND 63-12139 IN THE NAME OF BOISE WATER CORPORATION

PRELIMINARY ORDER

This matter having come before the Idaho Department of Water Resources (department), the department makes the following Findings of Fact, Conclusions of Law and Order:

FINDINGS OF FACT

1. On August 19, 1994, Boise Water Corporation (permit holder) filed Application for Permit No. 63-12138 with the department proposing the following:

Max. rate of div:	3.9 cubic feet per second (cfs)
Use:	Municipal
Source:	Groundwater
Point of div:	NE1/4NE1/4 Sec 17, T2N, R2E, B.M.
Place of use:	Boise City and proposed Woodland Park

2. On August 19, 1994, the permit holder also filed Application for Permit No. 63-12139 with the department proposing the following:

Max. rate of div:	4.9 cfs
Use:	Municipal
Source:	Groundwater
Point of div:	NE1/4NW1/4 Sec 21, T2N, R2E, B.M.
Place of use:	Boise City and proposed Woodland Park

3. On September 1 and 8, 1994, the department caused notice of the applications to be published in the Idaho Statesman newspaper. The proposed place of use was advertised as being "within the city limits of Boise."

4. On February 22, 1995, the department issued Permit Nos. 63-12138 and 63-12139 showing the proposed place of use as being "within the city limits of Boise and surrounding service area."

CONCLUSIONS OF LAW

1. The applications submitted to the department and the notice of the applications prepared and advertised by the department did not include "the surrounding service area" or the "proposed Woodland Park" as a part of the proposed place of use for

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JAN 25 1996

the applications.

2. The permits issued by the department incorrectly included "the surrounding service area" of the applicant as a part of the place of use.

3. The department should issue amended permits which show the place of use for each permit as being within the city limits of Boise.

ORDER

IT IS THEREFORE, HEREBY ORDERED that Permit Nos. 63-12138 and 63-12139 issued on February 22, 1995 are hereby **SUPERCEDED** by Amended Permit Nos. 63-12138 and 63-12139.

Dated this 7th day of November, 1995.

L. GLEN SAXTON, Chief
Water Allocation Bureau

JAN 25 1996

State of Idaho
Department of Water Resources

Permit To Appropriate Water

NO. 63-12138

Proposed Priority: August 19, 1994 Maximum Diversion Rate: 3.90 CFS

This is to certify, that **BOISE WATER CORP**
PO BOX 7488
BOISE ID 83707-7488
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
MUNICIPAL	01/01 to 12/31	3.90 CFS

LOCATION OF POINT(S) OF DIVERSION: NENE , Sec. 17, Township 02N, Range 02E
ADA County

PLACE OF USE: See Remarks

CONDITIONS/REMARKS:

1. Proof of construction of works and application of water to beneficial use shall be submitted on or before **March 1, 2000.**
2. Subject to all prior water rights.
3. Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which permit holder had no control.
4. 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.
5. The issuance of this right in no way grants any right-of-way or easement across the land of another.
6. Place of use is within the city limits of Boise and surrounding service area.
7. The daily diversion volume for the non-domestic uses authorized under this permit shall not exceed 2,500 gallons per day in accordance with the provisions of Section 42-111, Idaho Code.
8. The domestic use authorized under this right shall not exceed 13,000 gallons per day per dwelling in accordance with Section 42-111, Idaho Code.
9. This permit authorizes irrigation of up to 1/2 acre within each platted subdivision lot upon which a domestic dwelling has been constructed.
10. Irrigation of large projects such as parks, golf courses or sports activities fields is not authorized under this permit.

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State of Idaho
Department of Water Resources

Permit To Appropriate Water

NO. 63-12138

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code. Witness the signature of the Director, affixed at Boise, this

22nd day of February, 1995

R. Glen Saxton

R. Keith Higginson, Director

for

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MAR 29 1995

Ident. No. 63-12138

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

1. Name: BOISE WATER CORPORATION 208-362-1704
   Address: PO BOX 7488
   BOISE ID 83707

2. Source: GROUNDWATER Trib. to:
3. Location of Point of Diversion: NENE Sec. 17, Township 02N, Range 02E
   ADA County

4. Water will be used for the following purposes:

Purpose	From	To	CFS	(or)	AF
MUNICIPAL	01/01	12/31	3.900		

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

6. Proposed diverting works:
   a. Description of ditches, flumes, pumps, headgates, etc.
      Pump and distribution system.
   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 inches; proposed depth of well is
      feet.
   d. Is groundwater with a temperature greater than 85F being sought? NO
   e. If well is already drilled, when?
      Drilling Firm
      Well was drilled for

7. Time required for the completion of the works and application of the water to the proposed beneficial use is 5 year(s).

8. Place of Use: See Remarks

9. 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.

10. Remarks:
Place of use is within the city limits of Boise.
Applicant seeks limited municipal use exempted from Snake River Moratorium and will use an existing well.

11. 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 $ 340.00 Receipted by _____ #W017951 Date 8/19/1994

Publication prepared by _____ Date _____ Published in _____

Publication approved _____ Date _____

Comments: Date: 8/23/1994 User-ID: STAYLOR

Subject:
Previously Operated Well.

This well was previously operated for irrigation purposes under water right license #63-7359. Water has not been produced from this well for irrigation purposes since 1985 and the water right (63-7359) has therefore been forfeited.

MAR 29 1995

Form 202
10/92

Ident. No. 63-12138

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

1. Name of applicant Boise Water Corporation Phone 208-362-1704

   Post office address P.O. Box 7488, Boise ID 83707

2. Source of water supply Ground Water which is a tributary of _____

3. Location of point of diversion is -- ¼ of NE ¼ of NE ¼, of Govt. Lot --

   Sec. 17 Township 2N Range 2E B.M. Ada County; additional points of diversion if any: None

4. Water will be used for the following purposes: *

   Amount 3.9 for Municipal purposes from January 1 to December 31 (both dates inclusive)
   (cfs ~~or acre-feet per annum~~)

   Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
   (cfs or acre-feet per annum)

   Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
   (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 appropriate is (a) 3.90 and/or (b) _____ *
   cubic feet per second acre feet per annum

6. Proposed diverting works:

   a. Description of ditches, flumes, pumps, headgates, etc. Electrically driven pump discharging into the BWC distribution system

   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. Existing well diameter is 16 inches; existing depth of well is 900 feet.

   d. Is ground water with a temperature of greater than 85°F being sought? No

   e. If well is already drilled, when? 1970; Drilling firm Stevens;
   Well was drilled for *(well owner)* Ron Yanke & Tom Nicholson

7. Time required for the completion of the works and application of the water to be proposed beneficial use is 5 years *(minimum 1 year)*.

MAR 29 1995

* per 8/22/97 office visit by Scott Riegel, Production Mgr. for BWC

M:\RIGHTS\BLKCRK-1.APP

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. Boise City and proposed Woodland Park, a certificated

   d. Domestic; show number of households. _____ *

   e. Other: describe fully. delivery area for BWC.

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.	NE ¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	

Total number of acres to be irrigated _____

10. Describe any other water rights used for the same purposes as described above. Other existing rights of record under Boise Water Corporation's name

11. a. Who owns the property at the point of diversion? Black Creek Limited Partnership

    b. Who owns the land to be irrigated or place of use? N/A **

    c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing. See attached Memorandum of Understanding

12. Remarks: This well was previously operated for irrigation purposes under Water Right License #63-~~7045~~ 7359. WATER HAS NOT BEEN PRODUCED FROM THIS WELL FOR IRRIGATION PURPOSES SINCE 1985 AND THE WATER RIGHT (63-~~7045~~ 7359) HAS THEREFORE BEEN FORFEITED.

D. Brown, P.E.
Boise Water Corp.*
8/19/94

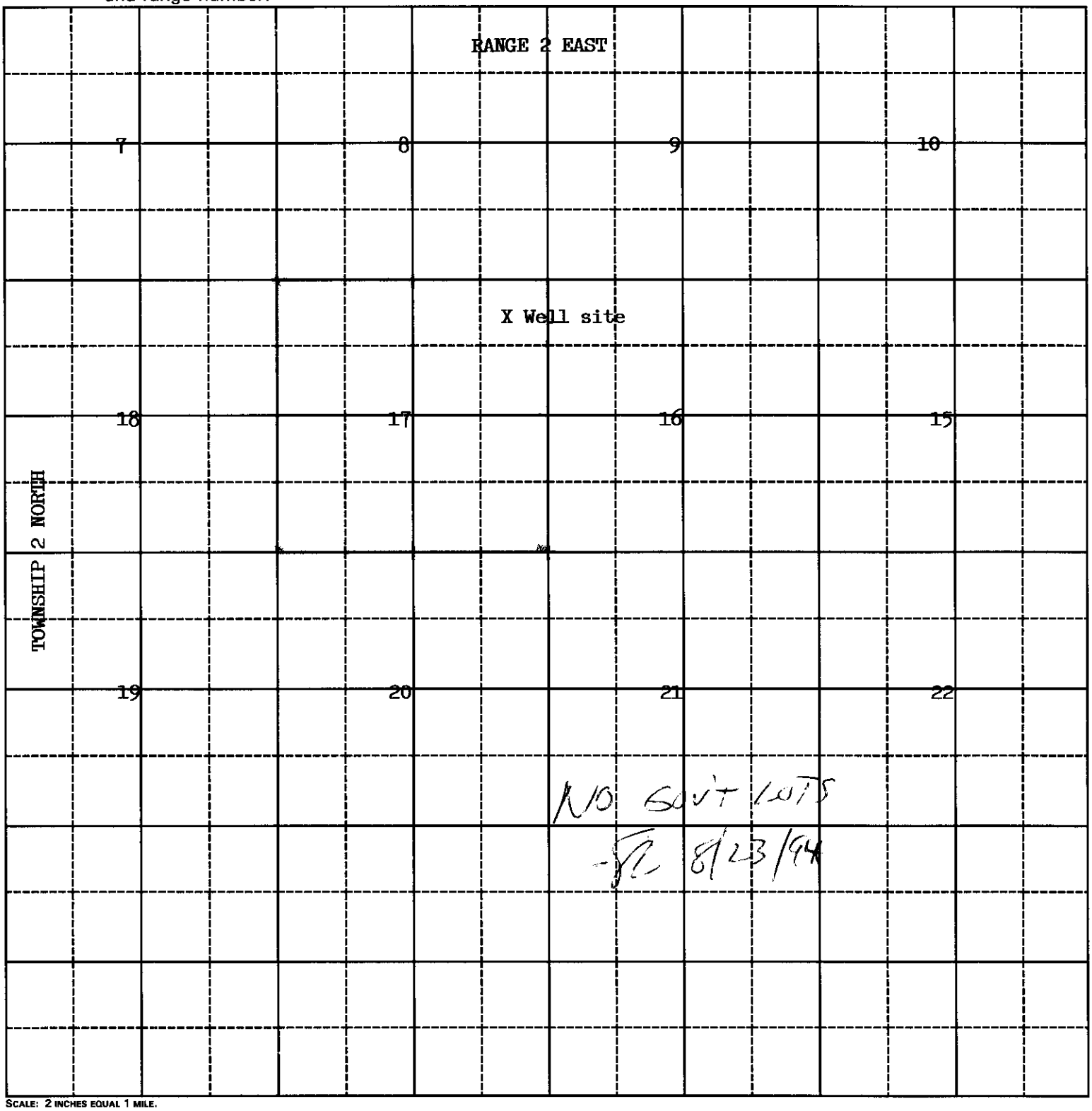
** "COMMENTS"

M:\RIGHTS\BLKCRK-1.APP

AUG 29 1995

** SL 8/23/94

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.

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.

Wayne L. Boe
(Applicant)

MAR 2 9 1995

Wayne Boe, President

M:\RIGHTS\BLKCRK-1.APP

Received by SL Date 8/19/94 Time 4:20 Preliminary check by SL

Fee $ 160 Receipted by SL # W0179S1 Date 8/19/94

Publication prepared by AT Date 8-24-94 Published in Id Statesman

Publication approved AT Date 9-19-94

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:

MAR 2 9 1995

Proposed Boise Water Corporation Water-Main Extentions to the Yanke / Nicholson Well-Field (1994)

Alternate A — 29,800 ft

Alternate B — 26,450 ft

= Boise Water Corp wells

= Yanke / Nicholson wells

= Other significant wells

= Proposed water-main extentions

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SEP 2 3 1994
WATER RESOURCES
WESTERN REGION

ES 8-1-94

MEMORANDUM OF UNDERSTANDING

THIS MEMORANDUM OF UNDERSTANDING (the "Agreement") is made and entered into effective as of the 1st day of October, 1993, by and between **BLACK CREEK LIMITED PARTNERSHIP,** an Idaho limited partnership and **PLEASANT VALLEY LIMITED PARTNERSHIP,** an Idaho limited partnership, hereinafter referred to as "Owners" and jointly as a "Party" and **BOISE WATER CORPORATION,** an Idaho corporation with its principal place of business at Boise, Ada County, Idaho, hereinafter referred to as "BWC" and a "Party".

RECITALS

A. Each of the Owners identified above owns an undivided one-half (1/2) interest in and to that real property located in Ada County, Idaho more particularly described on Exhibit "A" attached hereto and by this reference incorporated herein together with all appurtenances thereto including the ground water rights and certain existing water wells located thereon and all water production facilities located thereon or used in conjunction therewith (the "Property").

B. BWC is a regulated public utility in the business of developing, distributing and marketing water for domestic and commercial uses within Ada County, Idaho.

NOW, THEREFORE, in consideration of the mutual covenants, conditions and recitals herein contained, the parties agree as follows:

1. BWC desires to provide water service to the Property. Said water service to include water for domestic, irrigation, and fire protection purposes.

MAR 29 1995

63-12138
Attach. A
(3 pgs)

2. To assure its ability and authority to provide water service to the Property, BWC will petition the Idaho Public Utilities Commission to add the Property to BWC's certificated service area.

3. Owners will grant permission to BWC for access to existing wells for monitoring, testing, and analysis for the ultimate design of the well field. Said monitoring may include installation of continuous water level monitoring equipment at the well sites which are not currently in operation by Owners. Owners hereby grant to BWC a non-exclusive license to enter upon the property at all reasonable times and places and conduct thereon all tests, analysis and monitoring contemplated hereunder.

4. All data collected and analyses performed on the data will be provided to the Owners at no charge.

5. The Parties agree to negotiate in good faith for BWC's acquisition of the existing wells, water rights and/or well sites when BWC requires additional sources of supply to augment it's existing system or to serve land development on the Property. In the event the parties elect to discontinue any such negotiations or are unable to conclude the negotiations by agreement for such acquisition then this Agreement and the license granted herein shall immediately terminate, subject to the provisions of paragraph 6 below.

6. This Agreement shall remain in full force and effect for a period of five years from the date hereof unless extended or renewed during its term. BWC will have a period of thirty days following any termination of this Agreement in which to complete any ongoing testing, remove its equipment, and provide the data and results related to testing to the Owners.

RECEIVED 2 9 1995

The license granted herein shall automatically expire at the end of the thirty day period. Upon any termination of this Agreement for any cause whatsoever, upon written request of Owners BWC shall petition the Idaho Public Utilities Commission for removal of the Property from its certificated service area.

IN WITNESS WHEREOF, the Parties hereto have signed this Agreement effective as of the day and year hereinabove first set forth.

OWNERS:

BLACK CREEK LIMITED PARTNERSHIP

By: Thomas T. Nicholson
Thomas T. Nicholson, General Partner

PLEASANT VALLEY LIMITED PARTNERSHIP

By: Ronald C. Yanke
Ronald C. Yanke, General Partner

BWC:

BOISE WATER CORPORATION, an Idaho corporation

By: Wayne L. Booe
Wayne L. Booe, President

DEC 29 1995

State of Idaho
DEPARTMENT OF WATER RESOURCES
1301 North Orchard Street, Boise, ID 83706 - P.O. Box 83720, Boise, ID 83720-0098
Phone: (208) 327-7900 Fax: (208) 327-7866 Web Site: www.idwr.state.id.us

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

August 23, 2001

UNITED WATER IDAHO
8248 W VICTORY RD
PO BOX 7488
BOISE ID 83707-1488

RE: License No. 63-12138 - Issuance of License

Dear Water Right Holder(s):

The Department of Water Resources has issued the enclosed Water Right License confirming that a water right has been established in accordance with your permit. Please be sure to thoroughly review the conditions of approval and remarks listed on your license.

The license is a PRELIMINARY ORDER issued by the Department pursuant to section 67-5243, Idaho Code. It can and will become a final order without further action by the Department unless a party petitions for reconsideration or files an exception and/or brief within fourteen (14) days of the service date as described in the enclosed information sheet.

Please note that water right owners are required to report any change of water right ownership and/or 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 forms and instructions.

If you have any questions, please contact me at 208-327-7946.

Sincerely,

Shelley W. Keen
Water Rights Supervisor

SWK:klt
Enclosure(s)

cc: ED SQUIRES

MICROFILMED
SEP 19 2001

CERTIFICATE OF MAILING

I hereby certify that on August 23, 2001 I mailed a true and correct copy, postage prepaid, of the foregoing PRELIMINARY ORDER(Approved License) to the person(s) listed below:

RE: WATER RIGHT NO. 63-12138

UNITED WATER IDAHO
8248 W VICTORY RD
PO BOX 7488
BOISE ID 83707-1488

HYDRO LOGIC INC
ED SQUIRES
988 S LONGMONT AVE #100
BOISE ID 83706

Kari Lynn Townsend
Secretary

MICROFILMED
SEP 19 2001

EXPLANATORY INFORMATION TO ACCOMPANY A PRELIMINARY ORDER

The accompanying order or approved document is a **"Preliminary Order"** issued by the department pursuant to section 67-5243, Idaho Code. It can and will become a final order without further action of the Department of Water Resources (department) unless a party petitions for reconsideration, files an exception and brief, or requests a hearing 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 this 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 fourteen (14) 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 this 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 with the Director. Otherwise, this preliminary order will become a final order of the agency.

REQUEST FOR HEARING

Unless a right to a hearing before the department or the Idaho Water Resource Board (Board) is otherwise provided by statute, any person aggrieved by any final decision, determination, order or action of the Director of the department and who has not previously been afforded an opportunity for a hearing on the matter may request a hearing pursuant to section 42-1701A(3), Idaho Code. A written petition contesting the action of the Director and requesting a hearing shall be filed within fifteen (15) days after receipt of the denial or conditional approval.

ORAL ARGUMENT

If the Director grants a petition to review the preliminary order, the Director 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 Director will within a reasonable time period notify each party of the place, date and hour for the argument of the case. Unless the Director orders otherwise, all oral arguments will be heard in Boise, Idaho.

CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and any other matters filed with the Director in connection with the preliminary order shall be served on all other parties to the proceedings in accordance with IDAPA Rules 37.01.01302 and 37.01.01303 (Rules of Procedure 302 and 303).

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SEP 19 2001

FINAL ORDER

The Director 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 Director 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.

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SEP 19 2001

LICENSE REVIEW CHECKLIST

Permit No. 63-12138

BU Fee Pd $ N/A

Name/Address: X **OK** ___ **CHANGE** **Govt Lots** ____ **n/a** ____ **plat copy attached**

AREA OF CONCERN: **No/Yes** _____ **Moratorium** _____ **GWMA** ~~**TRUST/NON-TRUST**~~

GROUNDWATER: (√Flow Chart)

Supp irr (irr = only use)	- 065-104
~~Supp irr (+ other uses)~~	- 100-105
≤ 0.24 cfs/5 acres	- No MD
> 0.24 cfs/5 acres	- 01M ~~(if on permit)~~

LOCATION:

Trust	- R55(consumptive uses)
Non-Trust	- 048-049 (consumptive uses or non-cons. > 1.0 cfs)
PD Change	- P39/P47 – feds(P40)
PD Add	- P45/P42
PU Change	- P41/P47 – feds(P43)
PU Add	- P41/P42
PD & PU Change	- P37 – feds(P48)

USES:

STORAGE	- 18A-R02-01P-18B-NA
IRR ≤ 5 ac	- R66/R67/R68/R69 (0.03 cfs/ac)
> 5 ac	- R62/R63/R64/R65 (0.02 cfs/ac)
STOCKWATER	- R37 (BLM/USFS)
MINING	- 106
FISH PROP	- 029(70'S only)-042-106
HEAT/COOL	- R07(injection well)
FIRE PROT.	- 077
Use Change/Add	- P46

ADVANCE PRIORITY? _____ **Yes** X **No**

MISC CONDITIONS/REMARKS:

Multiple pd's per ¼¼	- W32
Subd lot desc (pd)	- W59
Subd lot desc (pu)	- W60
Use definitions	- W02 example – C/tire shop
Non-consumptive	- 027
Water Quality	- 106-R07
Mitigation	- 121 (if on permit)
PPU acre limit	- W27

CHECK NEW IRR SEASON MAP N/A

SURFACE WATER: (√Flow Chart)

In/Above MSF	- WB9
WD	- R04 (WD# _____)
≤ 0.20 cfs/others	- R02- 01P or No MD
> 0.20 cfs	- R43

SPRINGS/SINK, INACTIVE WD & REST OF STATE

≤ 0.24 cfs/5 acres	- No MD
>0.24 cfs/5 acres	- 01M or No MD

RIVER BASINS: (SW special considerations)

Snake R (01)	- W22, N/A
(02,03)	- WB9 if above Weiser
Payette R (65)	- 047(Payette Lake)
Salmon R (70's)	- 029 (fish screens)
Weiser R (67)	- 086-087

USES:

POWER	- R22-R23 (+uses)-025-106-W42-W43-027
MUNICIPAL	
Restricted area	- 022,075 N/A
Irr., GW supp to SW	- 102
DOMESTIC	
Surface water	- WB5 (Big Wood or Boise above Star Bridge) 27A (Payette R)
>1 in restricted area	- 070-071-075(no parks/common areas, etc)
Irr use listed separate	- WB5
Lawn/garden included	- W01

OVERLAP ANALYSIS/RATES/VOLUMES:

PD overlap rights	- W35-W36 Right #
PU overlap rights	- WB7-W31(<1 ac)
GW replaced SW	- 050

Permit Rate 3.9 cfs Fee Limit N/A cfs

Measured _____ cfs Theoretical _____ cfs

RECOMMENDED 3.9 cfs (see comments other side)

Use	Rate	Volume
MUNICIPAL	3.9 cfs	_____ af
_____	_____ cfs	_____ af
_____	_____ cfs	_____ af
TOTALS	3.9 cfs	_____ af

OTHER CONDITIONS/REMARKS/COMMENTS

SRBA Claim Filed _____ **Yes** X **No** **If no, is a claim required:** _____ **Yes** X **No**

AMENDMENTS REQUIRED _____ **Yes** X **No**

Adjustment Memo Needed _____ **Yes** _____ **No**

CBC

COMMENTS:

Water rights 63-12043, 63-12138 and 63-12139 all use the same four PODs. The three rights combined cover the system capacity of the four wells. In the field exam, Ed Squires noted an output for each well:

Raptor = 1100 gpm
Pleasant Valley = 1960 gpm
Ten-Mile = 1027 gpm
Pioneer = 1080 gpm

for a total of 11.51 cfs. Water right 63-12043 has been licensed for 4.46 cfs, while Mr. Squires recommended 3.9 cfs for 63-12138, and 3.2 cfs for 63-12139, totaling 11.56 cfs when the water rights are used in combination.

In Mr. Squires submittal of additional information dated July 16, 2001, he provided output rates from the four wells for July 12, 2000:

Raptor = 1020 gpm
Pleasant Valley = 2080 gpm
Ten-Mile = 1100 gpm
Pioneer = 1010 gpm

for a total of 11.6 cfs. The system capacity in this case was demonstrated to be greater than the combined rate recommended in the field exam. The licenses for water rights 63-12138 and 63-12139 reflect a diversion works capacity of 11.6 cfs, with the individual rates issued as recommended in the exam.

Hydro Logic, Inc.

988 S. Longmont, Ave, Suite 100, Boise, ID 83706 (208) 342-8369, (Fax) 342-3100, hydrologic@qwest.net

July 16, 2001

Cynthia Bridge
Engineer Associate
Water Allocations Bureau
Idaho Department of Water Resources
1301 North Orchard Street
Statehouse Mail
Boise, Idaho 83720-9000

RECEIVED
JUL 17 2001
Department of Water Resources

Re: United Water Idaho—Beneficial Use Field Licensing Examinations
Water Rights Nos. 63-12043, 63-12138, 63-12139

Dear Cynthia:

This letter responds to your request for additional information pertinent to IDWR's licensing review of the Beneficial Use Field Licensing Examinations for the above-captioned water rights associated with United Water Idaho's (UWID) Pioneer, Raptor, Pleasant Valley, and Tenmile wells (Tenmile Ridge wells). I appreciated your letter dated 2-16-2001 explaining the confusion over "Maximum Measured Output". UWID has not previously been required to consider the effects of its "system" when proving up on Beneficial Use for individual wells. This is generally because of the complexity of the interconnected system with numerous operating wells, valves, and pressure zones. I completely understand the Department's obligation to consider the combined effects of UWID's Tenmile well field because it is presently a "stand alone" segment of the larger integrated distribution system. As such, the Tenmile Ridge wells can be differentiated from the larger water system and also monitored as a separate unit. It is a reasonable assumption that well interference effects via, either, the aquifer and/or the water distribution system, might affect the operational performance of interconnected wells.

We have previously discussed the difficulties in monitoring the four wells simultaneously owing to the variables of 1) alternate day monitoring, 2) continuous decline of deep well pump performance over time, 3) equipment problems with flow-meters, monitoring tubes, and digital data acquisition systems, 4) the great depth to water and pumping lifts in this part of Boise, and 5) the various pumping cycles of individual wells with respect to system demand. Never the less, it has been shown that all of the pumps are pumping at full capacity during the high-use summer season. Even so, the data previously submitted have been unable to show the recommended discharge rate of 11.51 cfs on the same day. This is owing to the above stated difficulties and not due to the system's ability to produce the stated yield. You correctly observed that the highest documented combined (simultaneous) discharge rate (11.05 cfs) was prior to the 1999 replacement of the worn out pump in the Raptor Well. Accordingly, I am submitting additional data reflecting the system's ability to produce the recommended 11.51 cfs. After the Raptor well pump was replaced, UWID ran all four pumps through the 2000 summer season. I have included the pump-house records for the month of July, 2000 for all four Tenmile Ridge wells (Figure 1 and Appendix A). One unexpected variable occurred when the magnetic flow meter in the Pleasant Valley well stopped operating during June of 2000. Owing to the amount of time required to order and receive one of these large capacity meters, it was not possible to replace the meter until after the 2000 high-use season. However, given the good quality of UWID's monitoring data and thorough documentation of its installed equipment (Appendices A-C), it is not a difficult task to compensate for the absence of this one recording device to calculate total discharge from the system. I give you the following example:

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SEP 13 2001

During July, 2000, all four Tenmile wells were pumping continuously. On July 12th, the Pioneer, Tenmile, and Raptor wells were observed at discharge rates of 1,010 gpm, 1,100 gpm, and 1,020 gpm respectively (Figure 1) for a combined diversion rate of 3,130 gpm. As previously stated, the Pleasant Valley flow meter was inoperative at this time but its discharge rate can be easily calculated using the pump performance curve, pump specifications, and the total dynamic head of the system. On July 14th, the system pressure at Pleasant Valley well was 72 psi and pumping water level was recorded at 580 feet. The total dynamic head (against which the pump is working) is the sum of the pump-lift (pwl), frictional losses within the pump column, and the system pressure to be overcome. Because one pound per sqare inch (psi) is equivalent to 2.31 feet of pressure head, 72 psi equates to 166.3 feet of head. Frictional losses at 2000 gpm though 605 feet of 12-inch diameter steel pipe equal slightly less than 5 additional feet. The sum of 166.3 feet, plus 5 feet, plus 580 feet is 751 feet of total dynamic head (TDH). To obtain the pumping rate of the Pleasant Valley pump, one must use the pump performance curve. For accuracy and in the interest of thoroughness we must first consider the exact diameter of the pump impellers to correctly infer discharge from the performance curve (Appendix C). The Pleasant Valley well pump has 11 bowls. Six of the impellers are full diameter at 11.5 inches ("full-trim" performance Curve A). The remaining 5 impellers have been slightly timed to 11.169 diameters according to design parameters. This trim would be reflected on the pump performance curve, by a line midway between the A and B Curves. Therefore, the combined impeller trims result in a performance curve slightly below the full trim A curve (Figure 2). Dividing the TDH by 11 (the number of pump stages) the total head per stage is 68 feet per stage. This head condition, as plotted on the vertical axis of the pump performance graph, intercepts the curve at 2,080 gpm (Figure 2). Adding 2,080 gpm to the combined discharge of the other three pumps (3,130 gpm) equals 5,210 gpm or 11.6 cfs. A similar calculation, using August 21st, 2000 data, yields an identical result (Appendix B).

The above calculations not only serve to support the recommended discharge rates, but also to confirm what UWID's aquifer testing has indicated: that the interference effects between wells in this part of the basin are relatively small. Although neither of us had access to the 2000 data during our initial licensing reviews, it appears that my best estimates, from available data were quite close if somewhat lower than actual. I believe the calculated/observed rates are very conservative (a "worst case" scenario) in that the data used were from a full-on pumping period during the high-use (lowest aquifer pressure/ highest system pressure) season. I hope these additional data and explanations satisfy IDWR's licensing review requirements for UWID's Tenmile wells.

Sincerely,

E Squires

Ed Squires
Certified Water Rights Examiner No. 00-125

c: H. Scott Rhead, UWID
John Marshall, Givens Pursley
Jeff Peppersack, IDWR-SO
Gary Spackman, IDWR-WRO
Norm Young, IDWR-SO

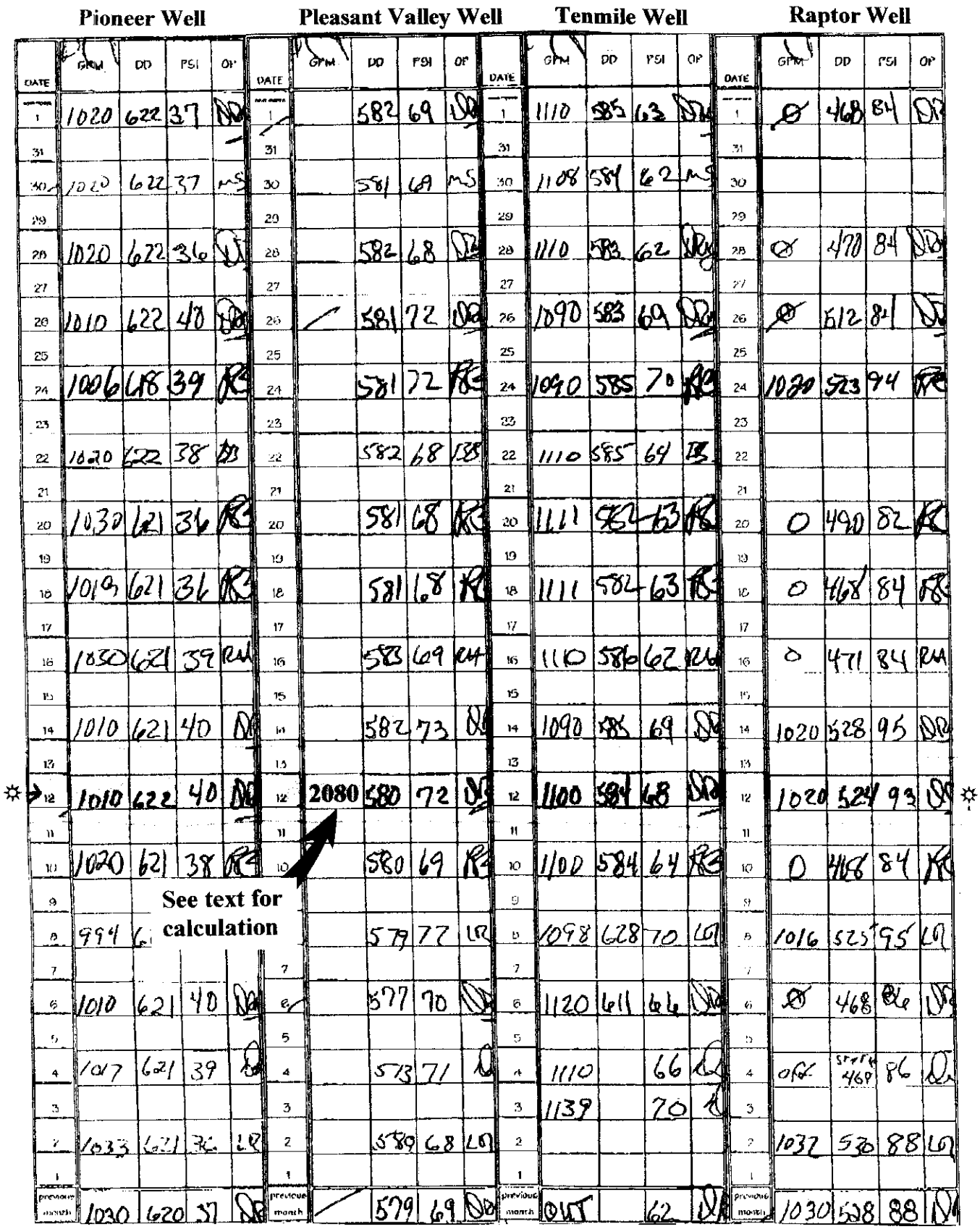
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SEP 1 92001

United Water Idaho

Water Treatment Record for July, 2000

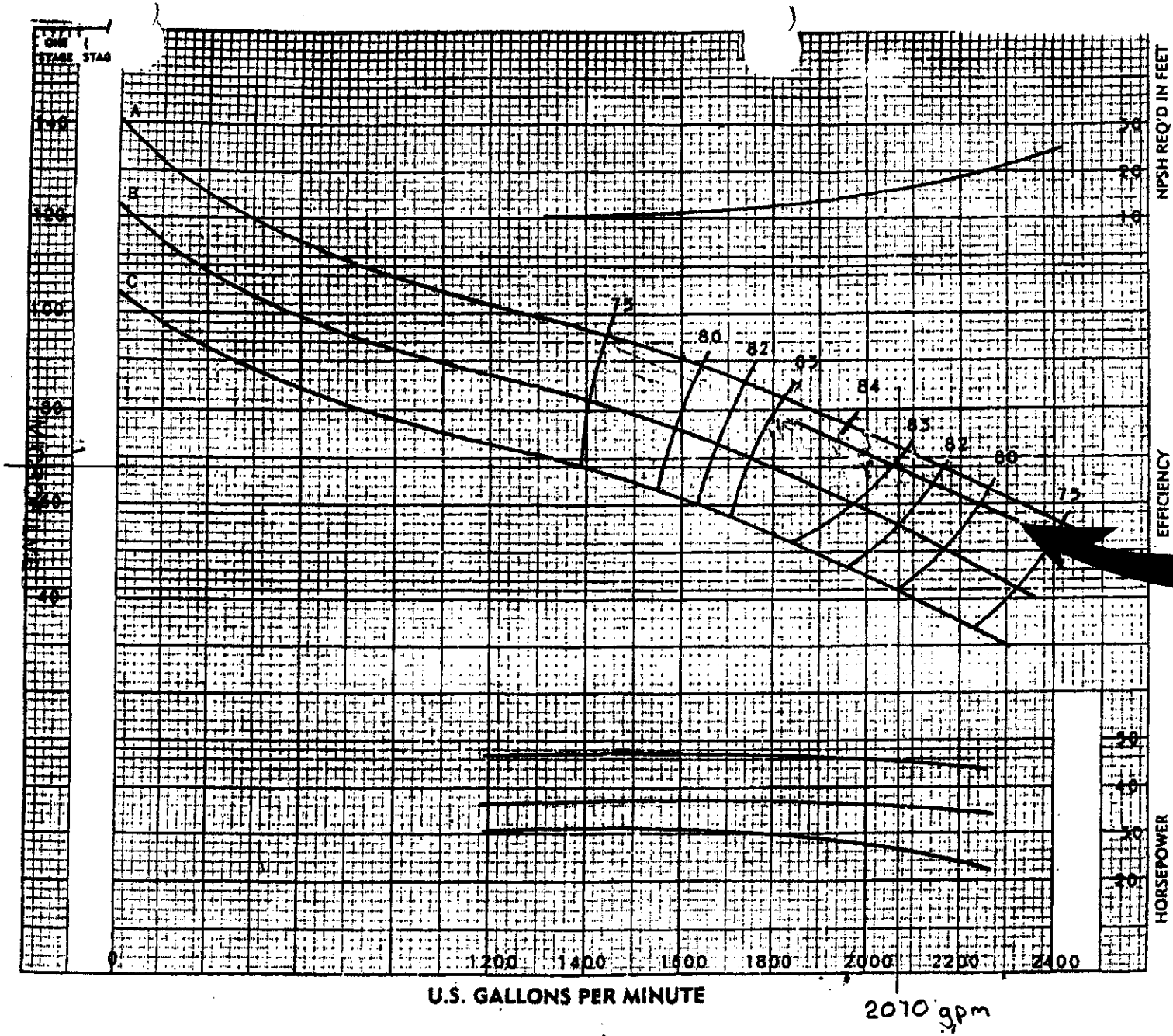
Figure 1

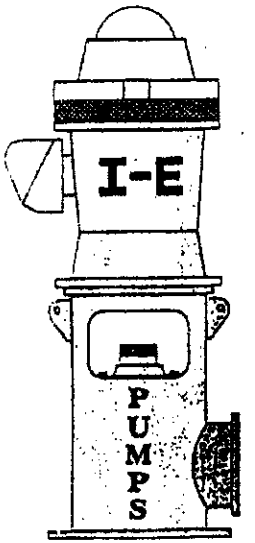


DATE	Pioneer Well GPM	DD	PSI	OP	Pleasant Valley Well GPM	DD	PSI	OP	Tenmile Well GPM	DD	PSI	OP	Raptor Well GPM	DD	PSI	OP
1	1020	622	37			582	69		1110	585	63		Ø	468	84	
31																
30	1020	622	37			581	69		1108	584	62					
29																
28	1020	622	36			582	68		1110	583	62		Ø	470	84	
27																
26	1010	622	40			581	72		1090	583	69		Ø	512	82	
25																
24	1006	618	39			581	72		1090	585	70		1030	523	94	
23																
22	1020	622	38			582	68		1110	585	64					
21																
20	1030	621	36			581	68		1111	582	63		0	490	82	
19																
18	1019	621	36			581	68		1111	582	63		0	468	84	
17																
16	1030	621	39			583	69		1110	586	62		0	471	84	
15																
14	1010	621	40			582	73		1090	585	69		1020	528	95	
13																
12	1010	622	40		2080	580	72		1100	584	68		1020	524	93	
11																
10	1020	621	38			580	69		1100	584	64		0	468	84	
9																
8	994	6				579	72		1098	628	70		1016	525	95	
7																
6	1010	621	40			577	70		1120	611	66		Ø	468		
5																
4	1017	621	39			573	71		1110		66		OFF	START 468	86	
3									1139		70					
2	1033	621	36			589	68						1032	530	88	
1																
previous month	1030	620	37			579	69		OUT		62		1030	528	88	

See text for calculation

Figure 1. Tabulated data from United Water Idaho's Pioneer, Pleasant Valley, Tenmile, and Raptor municipal wells (Tenmile Ridge wells) during July, 2000. The data table, which is a composite "paste-up" of United Water's pump house charts, shows daily instantaneous discharge rate, pumping water level, and system pressure for each of the individual wells. Original charts are attached as Appendix A.





Performance curve from impeller trim

1567 E. HWY. 160
P.O. BOX 112
MONTE VISTA
COLORADO 81144

(719) 852-5174

Figure 2.

I-E UWID Pleasant Valley Well

"TOP-O-THE LINE"

14AL-1960 DESIGN

1770 R.P.M.

SECTION N
PAGE 136
DATE 12-20-90

Appendix A.

UWID Pump House Charts – July, 2000

Pump house daily charts for United Water Idaho's Pioneer, Pleasant Valley, Tenmile, and Raptor municipal supply wells for the month of July, 2000. Entries are handwritten by UWID pump operators who visit the wells every other day for routine maintenance work.

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SEP 19 2001

UNITED WATER II 10

Water Treatment Record

LOCATION: Hinton DATE: July 2000

DATE	CL2 TOTAL (lbs)	CL2 USED (lbs)	CL2 RES (ppm)	TOTAL PO4 (G)	PO4 USED (G)	SPOT STK	pH (Chlorine)	METER READING (1000 gallons)	DAILY TOTAL (MG)	GPM	DO	PSI	OP
previous month 1	444	9	.7					764570		1020	622	37	
31													
30	353	10	.8					761410		1020	622	37	
29													
28	313	15	.8					758610		1020	622	36	
27													
26	328	17	.7					755730		1010	622	40	
25													
24	345	15	.7					752960		1006	618	39	
23													
22	360	15	.8					749620		1020	622	38	
21													
20	375	17	.8					747040		1030	621	36	
19													
18	392	16	.8				7.8	743970		1019	621	36	
17													
16	408	16	.8					741230		1030	621	39	
15													
14	424	16	.8					738220		1010	621	40	
13													
12	436	20	.8					735220		1010	622	40	
11													
10	335	25	.9					732150		1020	621	38	
9													
8	350	19	.9					729550		994	620	40	
7													
6	369	21	.8					726540		1010	621	40	
5													
4	390	16	.8					723370		1017	621	39	
3													
2	406	18	.8					720200		1033	621	36	
1													
previous month	424	12	.8					717540		1030	620	37	

TOTAL PRODUCTION 47,030

TOTAL CL2 USED 255

TOTAL PO4 USED

PO4 feed rate per 1 MG production = " "

Shower Test MICROFILM

SEP 19 2001

UNITED WATER 1 40

Water Treatment Record

LOCATION: Maywood Valley DATE: '2000

DATE	CL2 TOTAL (lbs)	CL2 USED (lbs)	CL2 RES (ppm)	TOTAL PO4 (G)	PO4 USED (G)	SPDY STK	pH (2/month)	METER READING (1000 gallons)	DAILY TOTAL (MG)	GPM	PD	PSI	OP
previous month 1	336 290	46	1.0					NO MTR			582	69	
31													
30	324	46	1.0					N/W			581	69	MS
29													
28	370	48	1.0					N/MTR			582	68	
27	418												
26	441	23	1.0					N/C		✓	581	72	
25	288	24											
24	312	58	1.0					—			581	72	
23													
22	370	44	1.0					N/W			582	68	
21													
20	414 248	53	1.0								581	68	
19													
18	301	47	1.0				8.0				581	68	
17													
16	348	53	1.0								583	69	
15													
14	399	42	1.0								582	73	
13													
12	441 294	46	1.0								580	72	
11													
10	345	54	1.0								580	69	
9													
8	391	56	1.0								579	72	
7	447												
6	359	50	1.0								577	70	
5													
4	389	38	-9								573	71	
3													
2	397	59	.9								589	68	
1													
previous month	456 307	53	.9					MTR NOT WORKING		✓	579	69	

Comp Water TOTAL PRODUCTION: 87.397

PO4 feed rate per 1 MG production = "_____"

TOTAL CL2 USE: 785

TOTAL PO4 USE: _____

Shower Test OK OP

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SEP 19 2001

UNITED WATER I' tc

Water Treatment Record

LOCATION: T&O WTP DATE: 2000

DATE	CL2 TOTAL (lbs)	CL2 USED (lbs)	CL2 RES (ppm)	TOTAL PO4 (G)	PO4 USED (G)	SPD/ STK	pH (2/month)	METER READING (1000 gallons)	DAILY TOTAL (MG)	GPM	DD	PSI	OP
1	349	20	.9					664220		1110	585	63	
31													
30	369	17	.9					660790		1108	584	62	
29													
28	386	15	.9					652820		1110	583	62	
27													
26	401	17	.9					655190		1090	583	69	
25													
24	418	15	.9					652680		1090	585	70	
23													
22	443	19	.9					649020		1110	585	64	
21													
20	460 813	20	.8					646270		1111	584	63	
19													
18	333	18	.8				7.6	643490		1111	584	63	
17													
16	351	24	.9					641160		1110	586	62	
15													
14	375	25	.9					637850		1090	585	69	
13													
12	400	42	0.9 2.0					634590		1100	584	68	
11													
10	442	24	1.0					631240		1100	584	64	
9	476												
8	330	24	1.0					628390		1098	628	70	
7													
6	354	28	1.0					626530		1120	611	66	
5													
4	382	.9						624030	1.070	1110		66	
3	382	.9						622960		1139		70	
2													
1													
previous month	382		/					622960		OUT		62	

TOTAL PRODUCTION: 41.260

PO4 feed rate per 1 MG production = " _____ "

TOTAL CL2 USED: 386

TOTAL PO4 USE: _____

Shower Test OK OP RG

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SEP 19 2001

UNITED WATER II

Water Treatment Record

LOCATION: Ruston DATE: [illegible] 2000

DATE	CL2 TOTAL (lbs)	CL2 USED (lbs)	CL2 RES (ppm)	TOTAL PO4 (G)	PO4 USED (G)	SPD/ STK	pH (2 readings)	METER READING (1000 gallons)	DAILY TOTAL (MG)	GPM	DD	PSI	OP
1	352	N/C	/					71450	N/C	0	468	84	DRM
31													
30													
29													
28	352	5	/					71450		0	470	84	DRM
27													
26	357	7	/					70630		0	512	84	DRM
25													
24	364	10	.7					70210		1030	523	94	KB
23													
22	3												
21													
20	374	5			OFF	ON	3½	69080		0	470	82	KB
19													
18	379	3	.8					69080		0	468	84	KB
17													
16	382	10	.9					68630		0	471	84	RM
15													
14	392	18	.8					67420		1020	528	95	DRM
13													
12	410	9	1.0					65770		1020	524	93	DRM
11													
10	419	2	1.2					64640		0	468	84	KB
9													
8	421	13	.9					64150		1016	525	95	LM
7													
6	434	5	/					62560		0	468	BL	DRM
5													
4	439	16						62070		OFF	SPD 469	86	DRM
3													
2	455	29						60220		1032	530	88	LM
1	[illegible]												
previous month	357	20	.9					56850		1030	528	88	DRM

TOTAL PRODUCTION: 14.600

TOTAL CL2 USE: 132

TOTAL PO4 USE: [illegible]

PO4 feed rate per 1 MG production: [illegible]

Shower Test: DK OP: RB

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SEP 19 2001

Appendix B.

UWID Pump House Charts – August, 2000

Pump house daily charts for United Water Idaho's Pioneer, Pleasant Valley, Tenmile, and Raptor municipal supply wells for the month of August, 2000. Entries are handwritten by UWID pump operators who visit the wells every other day for routine maintenance work.

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SEP 19 2001

UNITED WATER II

Water Treatment Records

LOCATION: [illegible] DATE: [illegible] 2000

DATE	CL2 TOTAL (lbs)	CL2 USED (lbs)	CL2 RES (ppm)	TOTAL PO4 (lbs)	PO4 USED (lbs)	SPDY STK	pH (2 hours)	METER READING (1000 gallons)	DAILY TOTAL (MG)	GPM	DD	PSI	OP
previous month													
1													
31	367	24	1.0					807910		1010	622	40	
30													
29	391	19	.9					804980		1010	622	40	
28													
27	410	23	1.0					802240		1010	622	39	
26													
25	433	12	.8/.7					799170		1010	622	40	
24													
23	445	19	.7					796270		1012	622	38	
22													
21	464	11	.7					793380		1010	622	40	
20													
19	495/325	19	.7					790680		1000	622	40	
18													
17	344	15	.7					787660		1020	622	40	
16													
15	369	13	.7					784640		1010	622	39	
14													
13	372	15	.7					782060		1000	622	40	
12													
11	387	13	.6					778960		987	622	40	
10													
9	400	12	0.7					776380		997	622	41	
8										9			
7	412	24	.7					773250		1002	622	40	
6													
5	424	10	.7					770100		1030	622	36	
4													
3	434	10	.7					767670		1010	622	37	
2													
1	444	9	.7					764570		1020	622	37	
previous month													

Run Gen 1½ hr.

PO4 feed rate per 1 MG production = " _____ "

TOTAL PRODUCTION: 43,340

TOTAL CL2 USE: 227

TOTAL PO4 USE: ---

Shower Test [illegible] OP [illegible]

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UNITED WATER II

Water Treatment Record

LOCATION: Pleasant Valley DATE: August 2000

DATE	CL2 TOTAL (lbs)	CL2 USED (lbs)	CL2 RES (ppm)	TOTAL PO4 (G)	PO4 USED (G)	SPDN STK	pH (Grams)	METER READING (1000 gallons)	DAILY TOTAL (MG)	GPM	DD	FSI	OF
previous month	585												
1													
31	268	48	.9					—			580	69	SB
30													
29	316	46	.8					—			581	69	SB
28													
27	362	58	1.0					METER BAD			582	68	BB
26													
25	420	48	1.0								582	70	KH
24	468												
23	334	49	.9								581	69	KH
22													
21	383	46	.9					—			581	69	SB
20	489												
19	428	49	.9					—		/	582	71	MM
18													
17	309	52	.9					—			583	68	BB
16													
15	361	43	.9					—			583	28	BB
14													
13	404	53	.9					—			583	71	DR
12													
11	457 307	44	.9					—			584	74	RH
10													
9	351 196	52						—			582	72	RB
8													
7	244	54						—			580	72	RH
6													
5	302	44	1.0					—			582	68	BB
4													
3	346	51	0.7					—			582	68	BB
2													
1	397 270	46	1.0					—			582	69	DM
previous month								METER BAD					

TOTAL PRODUCTION: 28.428

PO4 feed rate per 1 MG production = ___ ___

TOTAL CL2 USE: 937

TOTAL PO4 USE: ___ ___

MICRO ~~TEST~~ OK OP RB

SEP 19 2001

UNITED WATER

Water Treatment Record

LOCATION: Two Mile DATE: August 2000

DATE	CL2 TOTAL (lbs)	CL2 USED (lbs)	CL2 RES (ppm)	TOTAL PO4 (G)	PO4 USED (G)	SPDY STK	pH (2 hours)	METER READING (1000 gallons)	DAILY TOTAL (MG)	GPM	DD	PSI	OP
previous month 1													
31	354	15	1.1					700680		1110	580	65	SB
30													
29	369	16	1.1					699130		1120	582	64	SB
28													
27	386	25	1.4					697490		1110	582	64	DM
26													
25	410	41	1.0					695850		1103	584	65	LC
24	441												
23	300	21	1.0					691660		1111	579	64	LR
22													
21	321	15	1.0					689410		1110	580	64	SB
20													
19	386	28	.9					687830		1110	583	66	DM
18													
17	364	32	1.0					684950		1100	585	65	BB
16													
15	396	15	1.1					681660		1100	584	64	BB
14													
13	464	16	/					679960		1108	558	65	DM
12													
11	437	14	.7 / .0		New Injector			677130		1090	581	70	RM
10													
9	441	8	0.3					675700		1100	585	58	RG
8													
7	464	15	.8					673360		1095	582	70	RM
6													
5	316	15	.8					670260		1110	585	62	BB
4													
3	331	19	0.7					667590		1103	585	63	RG
2													
1	349	20	.9					664220		1110	585	63	DM
previous month													

TOTAL PRODUCTION: 36.460

TOTAL CL2 USE: 294

TOTAL PO4 USE: ---

PO4 feed rate per 1 MG production = * ____ . . *

Shown Test ____ OP ____

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UNITED WATER I' 4.

Water Treatment Rec...

LOCATION: Rather DATE: [illegible] '2000

DATE	CL2 TOTAL (lbs)	CL2 USED (lbs)	CL2 RES (ppm)	TOTAL PO4 (#)	PO4 USED (#)	SPDY STR	pH (2 readings)	METER READING (1000 gallons)	DAILY TOTAL (MG)	GPM	DD	PSI	OP
1													
31	425							80510		0		85	[illegible]
30													
29								90510		0		84	[illegible]
28													
27	425	N/C	/					80510	N/C	[illegible]	467	86	[illegible]
26													
25	N/C							90510		0	332	85	[illegible]
24													
23	N/C							90510		0	468	85	[illegible]
22	/												
21	N/C		1.0					80500		1050	515	96	[illegible]
20													
19	425	2	/					80500		[illegible]	517	87	[illegible]
18													
17	427	5		//				80280		/	470	84	[illegible]
16										/			
15	432	12	1.0	//				79690		[illegible]	474	85	[illegible]
14	444												
13	295	15	1.0					78170		1020	528	92	[illegible]
12													
11	310	27	.9					76320		1010	381	95	[illegible]
9/10	337	15	0.8					737680		1010	383	96	[illegible]
9	352							71540		1030	379	94	[illegible]
8													
7	352							71456		1035	514	94	[illegible]
6													
5													
4													
3	352	0											
2													
1	352	N/C	/					71450	N/C	[illegible]	468	84	[illegible]
previous month													

PO4 feed rate per 1 MG production = [illegible]

Shows: Test OUT SIDE LOW OP [illegible]

TOTAL PRODUCTION: 9.030

TOTAL CL2 USE: 76

TOTAL PO4 USE: [illegible]

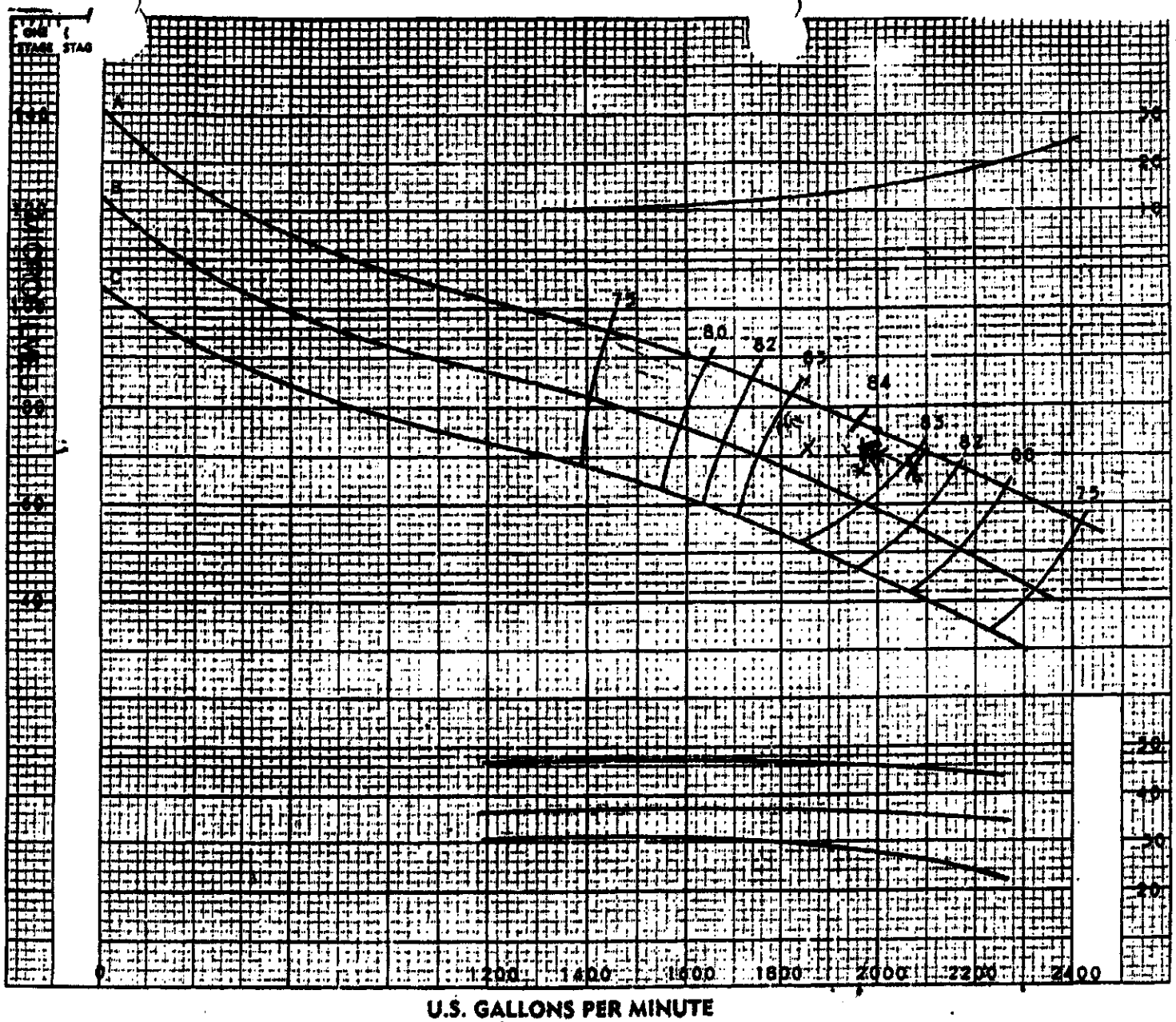
MICROFILMED

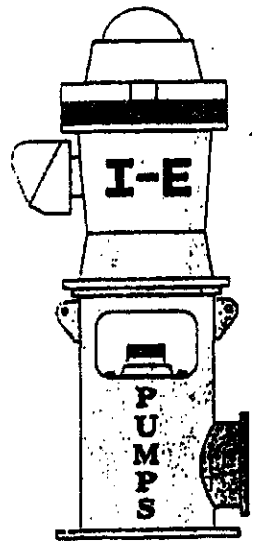
SEP 19 2001

Appendix C.

UWID Pleasant Valley Well - Pump Specifications and Performance Curve

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SEP 19 2001





1567 E. HWY. 160
P.O. BOX 112
MONTE VISTA
COLORADO. 81144

(719) 852-5174

SEP 19 2001

I-E
"TOP-O-THE LINE"

Pleasant Valley

14AL-1960
DESIGN

1770
R.P.M.

SECTION N
PAGE 136
DATE 12-20-90

PUMP SPECIFICATIONS

NAME	UNITED WATER					JOB NUMBER		PLEASANT VALLEY				
PUMP NO.	IE 95005	MAKE	IE HD FAB HEAD			MODEL	12-12-20					
MOTOR NO.		MAKE	US	HP	500	FRAME	5000PH	TYPE	HUE			
RPM	1800	BD	20	BC	14.75	REG.	13.5	CDLG	2.1875	LENGTH	57.9375	
PANEL HP		MAKE		SIZE		TYPE		VOLTS	460			
DISCONNECT AMPS		FUSE AMPS		VOLTS		HEATER NO						
GEAR HEAD NO.		MAKE		MODEL		HP		RATIO				
RPM		BD		BC		REG.		CPLG		LENGTH		
ENGINE MAKE		MODEL		HP		RPM						
HEAD SHAFT LGTH.	66 IN	TOP DIA.	2.1875	THDS.	10LH	BOT. DIA.	2.1875	THDS.	10LH			
SPEC. SHAFT LGTH.	77.5	TOP DIA.	2.1875	THDS.	10LH	BOT. DIA.	2.1875	THDS.				
STRETCH TUBE LGTH.		TOP DIA.		THDS.		BOT. DIA.		THDS.				
SPEC. TUBE LGTH.		TOP DIA.		THDS.		BOT. DIA.		THDS.				
BOWL TUBE LGTH.		TOP DIA.		THDS.		BOT. DIA.		THDS.				
DISCHARGE LGTH.		DIA.		THDS.		DIA.		THDS.				
SUCTION LGTH.	5FT 6IN	DIA.	10.75	THDS.	TPR	STRAINER	NEW CONE					
HEAD COL. LGTH	5FT	DIA.	12.75	THDS.	8B	TUBE		SHAFT	2 3/16 10LH			
60 COL. LGTH	5 FT	DIA.	12.75	THDS.	8B	TUBE		SHAFT	2 3/16 10LH			
COL. LGTH.		DIA.		THDS.		TUBE		SHAFT				
BOWL COL. LGTH.	5 FT	DIA.	12.75	THDS.	8B	TUBE		SHAFT	2 3/16 10LH			
TOTAL COL. SETTING	610 FT	STICKUP				TUBE		SHAFT				
BOWL DESCRIPTION	14AL	NO. STAGES	11	GPM	2000	T.D.H.	700					
QUANT.	6	IMPELLER	14AL	TRIM	F.D.	DIA.	11.5					
QUANT.	5	IMPELLER	14AL	TRIM	1/2A-B	DIA.	11.169					
BOWL SHAFT DIA.	2.1875	LGTH.	179.25	STICKUP	16.5625	TOP DIA.	2.1875	THDS.	10LH			
TUBE ADAPTER DIA.		THDS.		STICKUP								
WELL NO.		TOP DIA.		TO DEPTH		TOTAL DEPTH						
SIZE LINER		FROM DEPTH		TO DEPTH								
SIZE LINER		FROM DEPTH		TO DEPTH								
PERFORATIONS												
DATE PULLED		DEPTH		SWL		DATE INSTALLED		DEPTH		SWL		
DATE T.P. INST.		DEPTH		SWL		DATE TP PULLED		DEPTH		SWL		
SANDED FROM DEPTH				TO DEPTH		DATE						
REMARKS:	COLUMN LENGHT 610FT											
	BOWLS 14.5 FT											
	SUCTION PIPE AND STRAINER 5.5FT											
DATE COMPLETED				by SIGNATURE								

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1996

Well Setting Data

DATE INSTALLED: 05/21/96 — SETTING TO TOP OF BOWLS: 610 FT

LOCATION: PLEASANT VALLEY #94 — STATIC: 513 FT Jan-96 — OR. STATIC: 494 FT May-96

PUMP

MANUFACTURER	IRRIGATION ENGINEERING						
SERIAL NO.	96006						
TYPE	DWT	COLUMN SIZE	12 IN			TAPERED Y/N	N
SIZE/MODEL	14AL	DISCH DIAMETER	12 IN				
NO. OF STAGES	11	IMP SETTING FROM TOP OF CASING					610
RPM	1800	IMP QUA	6	IMP DIAM	11.5	IMP TRIM	F.D.
		IMP QUA	5	IMP DIAM	11.169	IMP TRIM	1/2 A-B
GPM	2000	LENGTH OF TAIL PIECE			5 FT 6IN	TAPERED Y/N	Y
TDH	780	LENGTH SUCT SCREEN			UNKNOWN		
LENGTH OF BOWLS	14.5 FT	SHAFT LENGTH			77.5 IN	THREADS	10LH
LENGTH OF MOTOR	N/A	GLAND SHAFT LENGTH			66 IN	SHAFT SIZE	2 3/16 IN
CURVE NUMBER	14AL-1960						

MOTOR

MANUFACTURER	US MOTORS	EFFICIENCY	84%
SERIAL NO	HD2632/204201001O4R-1		
TYPE	DWT	VOLTS	480
MAKE	HUE	AMPS	550
MODEL	HOZ632	PHASE	3
HP	500	CYCLES	60
UPPER BEARING	29426EJ	RPM	1775
LOWER BEARING	6219J	FRAME	500PH

AIR & AQUA LINES

AIR LINE		5/8 IN	610 FT	CHEM LINE		5/8 IN	630 FT
CL2 LINE	COVERED	5/8 IN	630 FT	SOUNDER		1 IN	630 FT

CREW

B. BARRIATUA — S. BESSON
S. FRISBEE — M. STAUFE

REMARKS

SUPERVISOR: D. MAYS

DATE RECIEVED BY DATA ENTRY: 05/21/96 — NAME: BLAINE

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SEP 19 2001

MEMORANDUM

TO: **File, Permit No. 63-12138**

FROM: **Cynthia Bridge**

DATE: **February 20, 2001**

RE: **Request for Further Information for Licensing Review**

Ed Squires telephoned to request the data sheets from a 24-hour pump test taken on July 27, 1998 be faxed to him. These records were in the Water Right file for 63-12138 and were referenced in my February 16, 2001 letter to Mr. Squires. After receiving the fax he called to discuss what the department would find acceptable in response to my letter requesting documentation of the system capacity. As I noted in my letter to Mr. Squires, I made an attempt to verify the recommended discharge numbers in the Beneficial Use Exam using the data records submitted with the exam. It was also important to confirm the overall capacity of the system. I understood that these data logs were not necessarily included to document the recommended rates, however they were the only numbers available.

To establish a maximum discharge using the pump test data noted above, I summed the corresponding hourly readings for each pump. The highest total discharge was 11.05 cfs at 12:00 am with all four pumps running. Mr. Squires pointed out that since the rates change significantly throughout the day, the maximum discharge for each pump could also be summed for a total of 11.16 cfs. His intent was to emphasize the fact that given the variation in discharge values and the variables involved in the system, individual readings are not necessarily representative of the capacity of the individual pump or the system. In addition to variables relating to water level, pressure variation, and system maintenance issues, he mentioned that in searching for addition data with which to respond to our questions, he had noted that the Pleasant Valley flow meter may have been running low for a period in 1999 prior to breaking down in June 2000. He noted that though data for the wells is available, it is not necessarily good data, and his extensive experience with the system is in many ways more valuable than the discharge records. Mr. Squires again emphasized that though the pumps can operate at much lower and at much higher rates, he made an effort to recommend reasonable and conservative discharge values.

I spoke with Mr. Squires again after conferring with Jeff Peppersack, and mentioned that we appreciated his concerns regarding variables affecting discharge measurements. I explained that the additional information could certainly include references about the system based on his experience, however he would need to provide specific examples of the system history including numerical documentation. From a legal standpoint, the department needs specific documentation to establish beneficial use. He mentioned that he had located some records demonstrating discharge rates higher than those recommended, but said he was concerned about the circumstances under which the data was collected. I said that documentation of the pumps providing a range of discharge rates (high and low) would be helpful in justifying beneficial use and establishing on paper that the system is capable of producing the recommended rates. Finally, I told him he was welcome to discuss his questions with Norm Young as well.

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SEP 19 2001

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

February 16, 2001

DIRK KEMPTHORNE
GOVERNOR

KARL J. DREHER
DIRECTOR

ED SQUIRES
HYDRO LOGIC, INC.
988 S LONGMONT AVE STE 100
BOISE ID 83706

RE: Beneficial Use Examination -- Permit No. 63-12138

Dear Mr. Squires:

Thank you for your letter dated February 12, 2001 responding to a request for more information regarding the Beneficial Use Examination for United Water Idaho's Water Right Permit # 63-12138. Both the examination and the letter provide a thorough explanation of the design capacities of the individual pumps and of the system layout.

I would like to apologize for any confusion regarding the information needed to conclude the review of this examination. My intent is to simply document that the total recommended rate of 11.51 cfs can be obtained when all four pumps are operating together. The productive yields of the individual pumps are demonstrated in the examination based on pump records, technical analysis and personal observation. The exam and the letter describe the origins of the "Maximum Measured Output" values for the specific pumps (see License Review Table provided in the exam). When considering these pump capacities individually, it may appear that a flow rate of 11.51 cfs is attainable. However, the pumps provide water to a common distribution system, therefore the overall flow for the system needs to be addressed to satisfy licensing requirements.

In an effort to confirm the system flow capacity, I checked the data provided in the report for discharge values from each pump recorded on the same day. As you indicated in your letter, the pump house charts were submitted as documentation of well use, however this was the only available data relating the operation of the entire system. Within these charts I found discharge values for all of the pumps operating on one day, August 19, 1999. The total discharge for all of the pumps as recorded was 4917 gpm or 10.96 cfs. I also located a fax with test data dated July 28, 1998 in the water right file. The data appears to have been provided in response to a letter by Gary Spackman of IDWR as part of a review of applications to amend three permits, including the permit referenced above. The letter requests information "regarding the quantity of water diverted from the four wells during the time the wells have been operating." This was a twenty four-hour test with hourly readings of each well's discharge. By summing the corresponding hourly discharges for each of the four wells, I found a maximum total

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discharge was 4959.63 gpm or 11.05 cfs. I understand the test was taken prior to the replacement of the Raptor Well in 1999. With the data I had available to me, I could not document the recommended total discharge with the system fully operational.

The reasonableness of the recommended discharge rates for the individual wells is not in question, however documentation that the total diversion rate is attainable is necessary as part of the examination. In your response letter, you make reference to periods in which all four wells are pumping to the system. Submitting information which demonstrates a measured output of 11.51 cfs or higher during one of these periods would satisfy the review requirements.

I understand this issue was discussed during a phone conversation today between you and Jeff Peppersack. I hope your concerns were addressed, and again, I apologize for the misunderstanding.

You also inquired about when your client could expect the licenses for the remaining water rights, numbers 63-12138 and 63-12139, to be issued. The permit discussed in this letter, no. 63-12138, has been reviewed for licensing and will be submitted for approval upon receipt of the information referenced above. Review of the Beneficial Use Examination and licensing review needs to be conducted on permit number 63-12139, however given the association of the two permits and similarity of the exams, the review process should be concise. Due to the number of people involved in the review process, I cannot specify a definite time period for completion, however the department appreciates the need to finalize the licensing of these permits.

Please feel free to contact this office if you have any other questions regarding this matter.

Sincerely,

Cynthia Bridge, Associate Engineer
Water Right Permits Section

cc: United Water Idaho, Inc.

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SEP 19 2001

MEMORANDUM

Date: February 15, 2001

To: WR File No. 63-12138

From: Jeff Peppersack

Re: Phone Conversation with Ed Squires Regarding Field Exam Requirements

Ed Squires, the certified field examiner who prepared exams for some of UWID's permits, called to discuss his concerns with our request for additional information regarding the permit referenced above. Ed expressed his frustrations regarding the entire permitting and licensing process for those permits where he has been recently involved. He indicated his disappointment with IDWR for questioning discrepancies of a few gallons per minute for a system capable of producing thousands of gallons per minute.

I explained that we were not questioning his report regarding individual pump capacities; the information he provided in his report was sufficient regarding the capacities for individual pumps in the system. I apologized to Ed for any misunderstanding regarding that information. I indicated that we needed information to determine the overall capacity of the system. The total amount recommended for licensing was 11.51 cfs (for three related water rights), which was the sum of the individual capacities of each pump in the system. When the pumps are all operating at the same time, they do not necessarily provide the sum of the capacities of each individual pump. Our review of the production records provided with the report found support for a total system capacity of approximately 11 cfs.

Ed indicated that additional information to support a total system capacity would be difficult to collect at this point, and he would probably not pursue it further. I told Ed that we would send him a letter explaining our needs and wait for his response. Ed asked that we fax the letter to him as soon as we get it prepared (fax no. 342-3100).

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SEP 19 2001

Hydro Logic, Inc.

988 S. Longmont, Ave, Suite 100, Boise, ID 83706 (208) 342-8369, (Fax) 342-3100, hlogic@msn.com

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FEB 14 2001

Department of Water Resources

February 12, 2001

Cynthia Bridge
Engineer Associate
Water Allocations Bureau
Idaho Department of Water Resources
1301 North Orchard Street
Statehouse Mail
Boise, Idaho 83720-9000

Re: United Water Idaho—Beneficial Use Field Licensing Examinations
Water Rights Nos. 63-12043, 63-12138, 63-12139

Dear Cynthia:

This letter responds to your inquiries regarding the Beneficial Use Field Licensing Examinations for the above-captioned water rights associated with United Water Idaho's (UWID) Pioneer, Raptor, Pleasant Valley, and Tenmile wells (Tenmile Ridge wells). Specifically, you referred to discrepancies in recommended flow rates. First, you have asked me to reconcile a recommended rate of 2.41 cfs versus 2.34 cfs (inferred in your review of the exam) for the Pioneer Well. Second, you called attention to a discrepancy of 2.45 cfs versus 2.38 cfs for the Raptor Well. I will address specifics of each well, below, and finish with a discussion of the combined recommendation for both wells.

Pioneer Well:
Although you correctly observe that the submitted pump house charts (Appendix A of the report) have a maximum recorded flow rate of 2.34 cfs (1080 gpm), you may have overlooked the flow rate of 2.45 cfs (1098 gpm) observed by myself, Mr. Richard Beymer, and Mr. Roger Dittus of UWID during the 4/27/2000 field examination (page 4, attached). The well itself is certainly capable of the recommended discharge rate as documented by a 28-hour period of continuous pumping of the well at 4.41 cfs (1980 gpm) during January of 1998 (Appendix D of the field exam). I directly observed and supervised the team of contractors and geoscientists who conducted this discharge while in the employ of UWID. It is well documented.

Raptor Well:
Raptor well was not pumping during the field exam. Therefore its productive yield was "recaptured" from 1) the pump performance curve, 2) measured pumping and non-pumping water-levels taken in the well over several years, and 3) the observed responses to well interference effects within the aquifer, seasonal water-level fluctuation, and pressure variations within the water distribution system. Needless to say, there is some interpretation and subjectivity to using indirect measurements and pump specifications to gage flow rate. Never the less, I will attempt to describe my inferences, which led to the .07 cfs (30 gpm) discrepancy you have questioned.

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The submitted pump house charts were included as documentation that all wells had run continuously through the summer seasons and not, necessarily, as substantiation of the recommended rate of flow for individual wells. The 1070 gpm noted in your review of the field exam was from these pump operator's daily charts (Appendix A). Both of these flow rates were measured during late summer-to-fall and near the end of the summer (peak season) draw down of the aquifer when water levels are at their lowest (deepest) for the year. Coincidentally, this is the time of year when the water distribution system pressures (at Raptor Well) are at their highest because all four interconnected wells are pumping to the system. Because Raptor well is at the end of the connecting water main, it experiences the highest system pressures when all wells are pumping to the system. Also in Appendix A are the total production summaries, by month, for UWID's south Boise wells. For the month of September 1995, the UWID Raptor Well produced a total of 45,309,000 gallons during the 30-day period. This equates to an average flow, for the month, of 1,049 gpm during a period of long-term, continuous pumping during peak season with all wells pumping. During periods of intermittent pumping and/or when demand is low, when all wells are not pumping and when aquifer pressures (water levels) are higher, well pumps tend to produce more water because of the lower total dynamic head to pump against. Distribution system pressures also vary with the season, the time of day, the number of wells pumping, and reservoir level. At lower head pressures, pumps run out on their performance curves and can produce more water. For example, according to the Raptor Well pumping test of 5/7/1996 (Appendix B), the short-term specific capacity of the well, after 3 hours of continuous pumping, is nearly 20 gpm/ft of draw down. Using this specific capacity, 55-feet of water level draw down would be required to produce the recommended 1100 gpm. Assuming the highest (winter) non-pumping water levels recorded on the Driller's Report (445 feet, Appendix D) or the UWID pump operator's measurements (455-feet, Appendix A, August 1999), pumping water level at a discharge rate of 1100 gpm would be between 500-to-510-feet below ground. Referring to the Raptor pump performance curve, the 13-stage pump (at the impeller trim of 8.69-inches, Appendix B), should produce 1100 gpm against a total dynamic head of about 625 feet. Subtracting the calculated pumping water level of 500 feet (see above) reveals an estimate of the system pressure the well pump could work against to yield 1100 gpm. In this case, the 125 feet of head equates to a system pressure of 54 psi; not an unusual municipal system pressure at all (see Pioneer and Tenmile wells, data Appendix A). The system pressure measured at Raptor well was 79-80 psi during the field exam because Pioneer and Tenmile wells were operating into the system.

Given that: 1) the pump operator's measurements are rounded estimates, 2) flow-meters operate within an accuracy range of 0.2-to-1.0 percent of rate, 3) the Raptor well does operate during periods when the groundwater table is high and the system pressure reduced, 4) that the Raptor well does pump at a higher rate during shorter pumping intervals of the winter months and during flushing/fire-flow operations, and 5) that pumping water levels are measured by relatively inaccurate airline pressures, a discrepancy of 30 gpm does not seem out of line for my recommendation. This "benefit-of-the-doubt analysis equates to an error margin of less than 3 percent for the Raptor portion of these water rights or less than ½ percent of the combined three Tenmile water rights (which have four mutual points of diversion).

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I am certain that flow rates greater than 1100 gpm can be observed at the well during winter months. Owing to the high electrical power demand charges due to high pump lifts, I did not feel it was necessary to activate the well pump, which was selectively turned off for the winter.

Because of the circumstances listed above, it would have been an easy exercise for United Water Idaho to show greater instantaneous flow rates at each well. Turned on individually, each well would yield significantly more water than was recommended as a fair realistic average. Quite frankly, I am somewhat surprised that the Department would make an issue of a difference in calculation as small as 0.07 cfs, particularly in the context of the cautious and conservative set of judgment calls required by this analysis. I hope this explanation is satisfactory. If you have further questions, I would be pleased to answer them. Or if you prefer, I will arrange for an on-site visit at your convenience.

Sincerely,

Ed Squires
Certified Water Rights Examiner No. 00-125

c: John Marshall, Givens Pursley
Jeff Peppersack, IDWR-SO
H. Scott Rhead, UWID
Gary Spackman, IDWR-WRO
Norm Young, IDWR-SO

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SEP 19 2001

MEMORANDUM

TO: **Permits 63-12138, 63-12139**

FROM: **Cynthia Bridge**

DATE: **December 20, 2000**

RE: **Request for Further Information for Licensing Review**

Norm Young requested that the Proof of Beneficial Use document for Permit No. 63-12138 be verified prior to approving licensing. United Water Idaho owns three municipal water rights that share four points of diversion (Pleasant Valley, Raptor, Tenmile, and Pioneer wells). These are the only rights affiliated with the wells. Water Right No. 63-12043 is licensed at 4.46 cfs with a priority date of July 23, 1993. Proof of Beneficial Use has been submitted for the other two Water Rights No. 63-12138 and 63-12139 for 3.90 cfs and 3.15 cfs respectively. Both have priority dates of August 19, 1994.

In reviewing the data provided for proof of discharge, Jeff suggested that the capacity of the system could be defined by checking output for all four wells running at full capacity at the same time. The examiner, Ed Squires, provided a license review table in the Proof of Beneficial Use that identifies the design capacity and the "maximum measured output" of each well (see attached). The total design capacity for the four wells is 5350 gpm (11.92 cfs), while the total measured output is 5167 gpm (11.51 cfs). The table then notes that the permitted rates for each of the water rights are 4.46, 3.90, and 4.90 cfs totaling 13.26 cfs. Both the design and measured capacities are therefore lower than the permitted rate. The requested rates for licensing are based on a total measured output of 11.51 cfs with 4.46 cfs allocated to License No. 63-12043, 3.90 cfs for Permit No. 63-12138 (the original permitted rate), and the remainder of 3.15 cfs for Permit No. 63-12139.

The table does not identify how the maximum measured output values of each well were determined or whether all four wells were operating at the same time. In reviewing the well log sheets provided in the Beneficial Use documents, output data for all wells operating in combination is available only for August 1999. I also located data submitted for an earlier review of an amendment request. The data includes hourly readings of all four wells pumping at maximum gpm on July 27, 1998. The greatest total rate for August 1999 was 10.96 cfs, while the greatest for July 27, 1998 was 11.05 cfs. These are both lower than the requested 11.51 cfs. It should be noted however, that the Raptor well was replaced in 1999 because the well's productive yield had declined to about 600 gpm; it was pumping 763.21 gpm on July 27, 1998. The new pump has apparently restored the yield to about 1100 cfs, so the results from July 27, 1998 would not be representative of the current system capacity.

I then checked all of the well log data provided in the Proof of Beneficial Use report for the maximum recorded gpm of the individual pumps to see if these values compared to those sited on the License review table compiled by the examiner. I could only locate the readings for the

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Pleasant Valley and 10-Mile pumps, 1960 gpm and 1027 gpm respectively. The greatest output I found on the provided data for the Raptor well was 1070 gpm (July 99) compared to the table value of 1100 gpm, and 1050 gpm (Aug 99) for the Pioneer well compared to the table value of 1080 gpm. They are both less than the values used to establish the requested rate of diversion.

I phoned Ed Squires, the examiner for all three water rights, on December 19, 2000 to request information on the origins of the maximum measured output data on the License review table and explained that I had not found all of these specific rates in the well logs provided. I also told him the highest total rate of diversion (capacity of the diversion works) I could determine was 11.05 cfs based on the data provided for July 27, 1998. He did not have the information in front of him but recorded this maximum total rate of 11.05 cfs as well as the maximum independent output values I found on the reported well logs. He pointed out, as is described in the report, that the Pleasant Valley and Raptor wells were not operating during the exam, and that this is not a requirement for licensing.

I requested information about the data used to establish the rates of diversion in the Proof of Beneficial Use and specified that I would need enough information to establish that the capacity of the diversion works was equivalent to the 11.51 cfs specified. I also noted that although a diversion rate of 3.90 cfs for Permit No. 63-12138 could be justified for licensing, the verification of the 11.51 cfs total diversion rate would be necessary for confirmation of a diversion quantity for the third water right, Permit No. 63-12139. Therefore, in order to push both rights through the review process expeditiously it would be prudent to obtain the necessary information now.

Jeff later referenced the Beneficial Use Examination Rules in response to Ed's comment that United Water Idaho is not required to have all pumps running at the same time for the examination. Under Rule 35 of the Beneficial Use Examination Rules, Part 01o. states: "The amount (rate and/or volume) of water shall be limited by the smaller of the permitted amount, the amount upon which the license examination fee is paid, the capacity of the diversion works or the amount beneficially used, including any statutory limitation of the duty of water." The limiting requirement in this case is the capacity of the diversion works and the owner will need to provide information that confirms that the system can support a rate of 11.51 cfs. Jeff also suggested that conditions of limitation could be added to the license. Conditions limiting joint operation of the pumps can be developed if the table values can be verified but were obtained while the system was not fully operational.

The Beneficial Use Examination Rules also state: "The rate of diversion measurement shall be conducted as close as reasonably possible to the source of supply and shall be measured with the project works fully in place operating at normal capacity" (IDAPA 37.03.02, 40.02, Rate of Diversion). Though the system does not need to be fully operational during the field exam, a measurement must be available that quantifies the project works while "operating at normal capacity." Rule 40.03 (Measurements) states that the field report shall include sufficient information "...to enable the director to check the quantity of water measured in each case." More output data is necessary. Rule 40.04 (Unacceptable Measurements) states, "theoretical diversion rates or theoretical carrying capacities are not acceptable as a measure of the rate of diversion..." therefore the design capacity would not be acceptable.

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Right 63-12138
License Review

Well Name	**Design Capacity**	**Max. Measured Output**
Raptor	1250 gpm	**1100 gpm**
Pleasant Valley	2000 gpm	**1960 gpm**
10-Mile	900 gpm	**1027 gpm**
Pioneer	1200 gpm	**1080 gpm**
Totals	5350 gpm	**5167 gpm**
	11.92 cfs	**11.51 cfs**
System Overlap		
Right	**Permitted Rate**	
63-12043	4.46 cfs	
63-12138	3.90 cfs	
63-12139	4.90 cfs	
Total of Permits	13.26 cfs	
System Capacity	11.51 cfs	
Issue License	**Rate**	
63-12043	4.46 cfs	
63-12138	3.90 cfs	
63-12139	3.15 cfs	

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LICENSE REVIEW CHECKLIST

Reviewed by Sharla Curtis on 7/27/00

Permit No. 63-12138

BU Fee Pd $ N/A

Name/Address: ✓ **OK** ___ **CHANGE** **Govt Lots** ____ **n/a** ____ **plat copy attached**

AREA OF CONCERN: **No/Yes** _____ **Moratorium** _____ **GWMA** ~~**TRUST/NON-TRUST**~~

GROUNDWATER: (√Flow Chart)

Supp irr (irr = only use)	- 065-104
Supp irr (+ other uses)	- 100-105
≤ 0.24 cfs/5 acres	- No MD
> 0.24 cfs/5 acres	- 01M (if on permit)

LOCATION:

Trust	- R55(consumptive uses)
Non-Trust	- 048-049 (consumptive uses or non-cons. > 1.0 cfs)
PD Change	- P39/P47 – feds(P40)
PD Add	- P45/P42
PU Change	- P41/P47 – feds(P43)
PU Add	- P41/P42
PD & PU Change	- P37 – feds(P48)

USES:

STORAGE	- 18A-R02-01P-18B-NA
IRR ≤ 5 ac	- R66/R67/R68/R69 (0.03 cfs/ac)
> 5 ac	- R62/R63/R64/R65 (0.02 cfs/ac)
STOCKWATER	- R37 (BLM/USFS)
MINING	- 081
FISH PROP	- 029(70'S only)-042-081
HEAT/COOL	- R07(injection well)
FIRE PROT.	- 077
Use Change/Add	- P46

ADVANCE PRIORITY? _____ **Yes** ✓ **No**

MISC CONDITIONS/REMARKS:

Multiple pd's per ¼¼	- W32
Subd lot desc (pd)	- W59
Subd lot desc (pu)	- W60
Use definitions	- W02 example – C/tire shop
Non-consumptive	- 027
Water Quality	- 081-R07
Mitigation	- 121 (if on permit)
PPU acre limit	- W27

CHECK NEW IRR SEASON MAP N/A

SURFACE WATER: (√Flow Chart)

In/Above MSF	- WB9
WD	- R04 (WD# _____)
≤ 0.20 cfs/others	- R02- 01P or No MD
> 0.20 cfs	- R43

SPRINGS/SINK, INACTIVE WD & REST OF STATE

≤ 0.24 cfs/5 acres	- No MD
>0.24 cfs/5 acres	- 01M or No MD

RIVER BASINS: (SW special considerations)

Snake R (01)	- W22, N/A
(02,03)	- WB9 if above Weiser
Payette R (65)	- 047(Payette Lake)
Salmon R (70's)	- 029 (fish screens)
Weiser R (67)	- 086-087

USES:

~~POWER~~	- R22-R23 (+uses)-025-081-W42-W43-027
MUNICIPAL	
Restricted area	- 022,075
Irr., GW supp to SW	- 102 N/A
DOMESTIC	
Surface water	- WB5 (Big Wood or Boise above Star Bridge) 27A (Payette R)
>1 in restricted area	- 070-071-075(no parks/common areas, etc)
Irr use listed separate	- WB5
Lawn/garden included	- W01

OVERLAP ANALYSIS/RATES/VOLUMES:

PD overlap rights	- W35-W36 Right #_____
PU overlap rights	- WB7-W31(<1 ac)
GW replaced SW	- 050

Permit Rate 3.90 cfs Fee Limit N/A cfs

Measured 11.51 cfs Theoretical _____ cfs

Use	Rate	Volume
Muni	3.90 cfs	af
	cfs	af
	cfs	af
TOTALS	cfs	af

OTHER CONDITIONS/REMARKS/COMMENTS _____

SRBA Claim Filed ____ **Yes** ✓ **No** **If no, is a claim required:** ____ **Yes** ✓ **No**

AMENDMENTS REQUIRED ____ **Yes** ✓ **No** **If yes, paragraph codes:** _____

Adjustment Memo Needed ____ **Yes** ____ **No**

Right 63-12138
License Review

Well Name	**Design Capacity**	**Max. Measured Output**
Raptor	1250 gpm	1100 gpm
Pleasant Valley	2000 gpm	1960 gpm
10-Mile	900 gpm	1027 gpm
Pioneer	1200 gpm	1080 gpm
Totals	5350 gpm	5167 gpm
	11.92 cfs	11.51 cfs
System Overlap		
Right	**Permitted Rate**	
63-12043	4.46 cfs	
63-12138	3.90 cfs	
63-12139	4.90 cfs	
Total of Permits	13.26 cfs	
System Capacity	11.51 cfs	
Issue License	**Rate**	
63-12043	4.46 cfs	
63-12138	3.90 cfs	
63-12139	3.15 cfs	

Hydro Logic, Inc.

1530 Knights Drive, Boise, ID 83712 (208) 342-8369, (Fax) 342-3100, hlogic@msn.com

July 6, 2000

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JUL 10 2000

Department of Water Resources

Mr. Norman C. Young
Administrator, Water Management Division
Idaho Department of Water Resources
1301 North Orchard Street,
Statehouse Mail
Boise, Idaho 83720-9000

Subject: United Water Idaho's Tenmile Ridge water rights licensing examinations.

Dear Norm:

Under this cover, I am submitting the Beneficial Use Field Report for Permit # 63-12138 on behalf of United Water Idaho (UWID). This is the second of three reports for the field examinations of UWID's south Boise well field along Ten Mile Ridge. The first report, for Permit # 63-12043, was filed under my cover letter to you dated June 12, 2000 and a third will follow shortly (Permit # 63-12139).

Thank-you for your quick acknowledgement of that letter and for clarification of how such Permits will be considered in the SRBA. UWID is very pleased that their Permits, for which proof of beneficial use has been filed prior to the Director's report for Basin 63, will be licensed and considered by the court. To that end, we will work diligently to file beneficial use exams for the 14 remaining permits listed within UWID's Integrated Municipal Application Package (IMAP) presently before the Department.

The following history of development is presented as an aid to the processing of these somewhat complex permits.

Chronology of United Water Idaho, Inc.'s Water Right Permits # 63-12043, # 63-12138, and #63-12139 for Raptor, Pleasant Valley, Ten Mile, and Pioneer Wells

DATE	ACTION / APPROVAL / COMPLETION
7/ 23/ 93	Application for Permit filed for # 63-12043 (Raptor Well)
8/ 19/ 93	1st public notice advertisement in Idaho Statesman # 63-12043
8/ 26/ 93	2nd public notice advertisement in Idaho Statesman # 63-12043
9/ 15/ 93	Expedited drilling permit approved for Raptor Well
9/ 23/ 93	Permit # 63-12043 (Raptor Well) approved
12/ 12/ 93	UWID Raptor Well completed
Mid/ 94	Pump installed in Raptor Well
8/ 19/ 94	Applications for Permits filed for # 63-12138 and #63-12139
9/ 1/ 94	1st public notice in Idaho Statesman # 63-12138 and #63-12139
9/ 8/ 94	2nd public notice in Idaho Statesman # 63-12138 and #63-12139
2/ 95	24-inch pipeline completed to southeast Boise – Raptor Well on-line
2/ 22/ 95	Permits # 63-12138 and #63-12139 approved
8/ 17/ 95	UWID Pleasant Valley Well completed
10/ 95	UWID Southeast Boise, Water-Operations Plan submitted to IDWR
11/ 7/ 95	Permits #63-12138 and #63-12139 amended with changed place of use

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11/ 29/ 95	Pleasant Valley aquifer test (6 days) begins
2/ 15/ 96	Columbia Reservoir (3 million gallons) on–line and connected to SE Boise pipeline
5/ 21/ 96	Pump installed in Pleasant Valley Well
7/ 22/ 96	UWID Ten Mile Well completed
3/ 12/ 97	Pump installed in UWID Ten Mile Well
7/ 97	UWID Ten Mile Well on-line
9/ 5/ 97	Applications for Amendments of Permits # 63-12043, # 63-12138, and #63-12139 (Raptor, Pleasant Valley, and Ten Mile wells) filed to add a new point of diversion (Pioneer Well), to make all four wells mutual points of diversion for each other, and to change the place of use to UWID's service area.
9/ 18/ 97	1st notice in Idaho Statesman #63-12043, #63-12138, and #63-12139
9/ 25/ 97	2nd notice in Idaho Statesman #63-12043, # 63-12138, and #63-12139
11/ 10/ 97	Approved Amendments of #63-12043, # 63-12138, and #63-12139
12/ 22/ 97	UWID Pioneer Well completed
4/ 15/ 98	Pump installed in Pioneer Well.
6/ 12/ 98	Application for Amendment of Permits # 63-12043, # 63-12138, and #63-12139 (Raptor, Pleasant Valley, Ten Mile, and Pioneer wells) to remove "domestic only" limitations for full municipal use.
6/ 18/ 98	1st notice in Idaho Statesman #63-12043, #63-12138, and #63-12139
6/ 25/ 98	2nd notice in Idaho Statesman #63-12043, # 63-12138, and #63-12139
6/ 30/ 98	UWID protest of Department of Corrections Transfer # 5314 of License # 63-12296
7/ 98	UWID Pioneer Well on-line
8/ 19/ 98	Proof of Beneficial Use filed for #63-12043 (Raptor)
9/ 9/ 98	Approved Amendments of Permits # 63-12043, # 63-12138, and #63-12139 for full municipal use
9/ 16/ 98	UWID withdrawal of protest of Department of Corrections Transfer # 5314
7/ 14/ 99	Pump replaced in UWID Raptor Well
3/ 00	Request for Extension of Time filed for Permits #63-12138, and #63-12139
4/ 27/ 00	Proof of Beneficial Use Field Examinations for Permits # 63-12043, # 63-12138, and #63-12139

As previously stated, I am filing these through you because of the convoluted and contested history of the rights, because of your close involvement with their approval, and to make sure you are aware of their status with respect to UWID's Integrated Municipal Application Package (IMAP) presently before the Department. Please convey this report to the Water Rights Permit Section of the Water Allocation Bureau for processing.

Sincerely,



Ed Squires
Certified Water Rights Examiner No. 00-125

c: John Marshall, Givens Pursley
Scott Rhead, UWID
Gary, Spackman, IDWR w/o field exam

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SEP 13 2001

Form 219
6/92

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No. 63-12138

1. Owner: United Water Idaho, Inc. Phone No. (208) 362-7358

Current Address: 8248 West Victory Road, PO Box 7488, Boise, ID 83707-1488

2. Accompanied by: Roger Dittus EXAM DATE : April 27, 2000

Address: Same as above Phone No. (208) 362-7358

Relationship to Permit Holder: Sr. Hydrogeologist – United Water Idaho, Inc.

3. Source: Groundwater- UWID Pleasant Valley Well tributary to N/A

B. OVERLAP REVIEW

1. Other water rights with the same place of use: United Water Idaho's integrated portfolio of water rights

2. Other water rights with the same point of diversion: 63-12043, 63-12139

C. DIVERSION AND DELIVERY SYSTEM

1. **Point(s) of Diversion:**

Ident No.	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
Pleasant Valley		**NW**	**NE**	**NW**	**21**	**2N**	**2E**	**Ada**	**Site Visit and USGS 7 ½ -minute Topographic Series Maps**
Raptor Well		**NW**	**NW**	**NW**	**17**	**2N**	**2E**	**Ada**	**Site Visit and USGS 7 ½ -minute Topographic Series Maps**
Tenmile Well		**NE**	**SE**	**NE**	**17**	**2N**	**2E**	**Ada**	**Site Visit and USGS 7 ½ -minute Topographic Series Maps**
Pioneer Well		**NE**	**NW**	**NE**	**22**	**2N**	**2E**	**Ada**	**Site Visit and USGS 7 ½ -minute Topographic Series Maps**

2. **Place(s) of Use:** UWID's Certificated Service Area Indicate Method of Determination On file records at IDWR and IPUC

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

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3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.

See Attached Sheets, Appendices, and Figures:

_XX_ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

___ Aerial Photo Attached (required for irrigation of 10+ acres).

_XX_ Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Pleasant Valley Well (# 94)	U.S. Motors HUE Titan Series	500	HD2632/ 20420100104R-1	Irrigation Engineering	96006 (12-inch)
Raptor Well (#)	High Thrust U.S. Electrical Motors	230	C04-7258-MD2	Goulds	FR412083 (8-inch)
Tenmile Well (# 113)	U.S. Motors HU	300	6564-Z05Z060R057M 5	Goulds	(12-inch)
Pioneer Well (# 139)	U.S. Motors HU Titan Series	300	ID#B05 97031941-001R1	Ingersol-Dresser	(12-inch)

**Code to correspond with No. on map and aerial photo*

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Bailey Fischer Porter magnetic flow-meter	flow meter	Series 3000	X3311SDE18P1B2BA113 2X1AABC1	96W005756 (Pleasant Valley)	8-inch	1996 factory calibration
Bailey Fischer Porter magnetic flow-meter	flow meter	Series 3000	10DX3311GDE18P1BZBA 1138X1AAAC1	99W013705 (Raptor)	8-inch	1999 factory calibration
Bailey Fischer Porter magnetic flow-meter	flow meter	Series 3000	10DX3311SDE18P1B2BA 1132X1AAAC1	97W008103 (Ten Mile)	8-inch	1997 factory calibration
Bailey Fischer Porter magnetic flow-meter	flow meter	Series 3000	10DX3311SDE18P1B2BA 1132X1AAAC1	97WO36485 (Pioneer)	8-inch	1997 factory calibration

2. **Measurements:** Discharge measurements for this examination were made using the magnetic flow-meters listed above. All four points of diversion have identical flow-meters and are configured the same. The minimum piping installation recommendations of the manufacturer were met and/or exceeded by UWID.

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E. NARRATIVE/REMARKS/COMMENTS

The field exam for this permit was conducted on April 27, 2000 by myself, Ed Squires, accompanied by Mr. Roger Dittus of United Water Idaho, Inc. We visited all four wells which are points of diversion for this water right and two other overlapping municipal water rights belonging to UWID. This municipal water right shares four points of diversion (Pleasant Valley, Raptor, Tenmile, and Pioneer wells) between three water rights (63-12138, 63-12043, and 63-12139) along Tenmile Ridge to the south of the City of Boise (Figure 1). All four wells pump into UWID's integrated system of water mains, reservoirs, and pumping stations. Of the four wells, only the Tenmile and Pioneer wells were pumping at the time of the field exam, however, I have personally visited these wells many times, over the last 6-years of my employment with UWID, when the wells were operating, during hydraulic testing of the well, and during several aquifer tests conducted using these wells. Pump-house notes and digitally acquired water-level, production, and pressure data are available to support the claimed beneficial use (Appendix A). Additional production data has previously been reported to the Department (Southeast Boise Water Supply Operations Plan dated October, 1995) in response to protests filed by the Southwest Ada County Alliance, Ms. Betty Bermensolo, and Mr. Bill Wegener (see water right file). The water for this permit is produced from four wells located in Sections 17, 21, and 22, Township 2 North, Range 2 East (Figure 1) The water is pumped into a 24-inch diameter mainline and conveyed to a three million gallon reservoir (Columbia Tank) in Section 24 (Figure 2). Several customers, including the World Center for Birds of Prey, are served directly from the main on the way to the Columbia Tank, but most of the water is transported to the reservoir. The 24-inch line drops the water to UWID's Gowen Service Level, on Federal Way, where it is distributed throughout Boise and UWID's surrounding service area. Each well is discussed individually below and Driller's Reports and other details of well construction are included as Appendix D:

Pleasant Valley Well:

The Pleasant Valley Well is housed inside of an 18-foot by 32-foot, cinder-block pump house. It is equipped with a 14-inch diameter, 11-stage, Model 14AL "Irrigation Engineering" deep well turbine pump (Appendix B) set on 605-feet of 12-inch diameter column and shafting. The pump is driven by a 500 HP, 1775 rpm, U.S. Motors – Titan Series motor. The discharge line is 12-inch diameter except for 5-feet of 8-inch line which houses the totalizing flow-meter. A total of 20.5-feet of discharge is exposed in the pump house with 12-feet of line prior to the flow-meter and 8.6-feet after. The flow-meter installation meets manufacturer's recommendations for accurate metering (Appendix C). Plumbed into the discharge piping is an 8-inch flow-meter, back-flow prevention valve, water sampling port, 2-inch diameter screened vent, 12-inch control valve, and a by-pass flushing valve (Figure 3).

The installed pump is the original, set in May of 1996. The design point of the Pleasant Valley well pump is 2000 gpm at 780-feet total dynamic head. The pump was not running during the field exam and pump house records showed that the well had not been pumped during the month of April. The last four years of pump house records and digitally acquired telemetry data (Appendix A) show that the well regularly yields instantaneous flow rates to 1960 gpm and runs continuously though the peak water use season. I have personally observed the pump running at these flow rates, on numerous occasions, over the last four years during aquifer tests and water-quality sampling of the well. The April 2000 pump-house records (on the wall at the time of the exam) showed non-pumping water-level to range between 564-feet bmp (April 1st)-to-604-feet bmp (April 23rd) and system pressures of 65-to-66 psi. I measured non-pumping water level at 9:09 AM to be 498.75 feet bmp (measuring point = 2.5-ft. above pump house floor) through a 1-inch diameter dedicated sounding tube. This measurement was 19-feet higher than the air-line gage reading at the well

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head. The flow-meter totalizer showed 87,00,30,000 gallons and system pressure was 66 psi. The Pleasant Valley Well is piped directly to a 24-inch diameter water supply main which extends to the UWID Columbia Reservoir.

Raptor Well:

Raptor Well (Figure 4) is equipped with a 12-inch, Model 12 CLC Goulds deep well turbine pump set on 590 feet of 10-inch diameter column and shaft. The pump is powered by a 230 HP, 1775 rpm, High Thrust U.S. Electrical Motors motor (Appendix B). Nineteen and one-half feet of 8-inch discharge line is exposed within the pump house before it extends below the concrete floor into a 12-inch diameter mainline (Figure 4). The 8-inch discharge is equipped with an 8-inch magnetic flow-meter, back-flow prevention valve, water sampling port, a 2-inch screened vent pipe, an 8-inch control valve, and a bypass flush valve. The magnetic flow-meter is installed with 7.5 feet of straight pipe upstream of the meter and 3.5 feet downstream. The control valve is downstream of the meter. The manufacturer's installation parameters are met (Appendix C).

The installed pump, at the time of the field exam, was not the original pump installed in the well. In mid 1994, a 12-inch diameter, 1250 gpm, Byron Jackson submersible pump was set on 575 feet of 10-inch column powered by a 300 HP 1751 rpm, Byron Jackson motor. The design point of this pumping plant was 1250 gpm at 638-feet of total dynamic head Appendix B). This pump progressively wore out over a few short years, possibly due to cavitation from entrained carbon dioxide gas in the well water. Production records show that the well produced 1,050 gpm in 1995. By 1998 the well's productive yield had steadily declined to about 600gpm (Appendix A). The original pump was replaced in 1999 and the well's yield restored to about 1100 gpm as documented by pump house records and remote telemetry data. Measured non-pumping water-level is within 10-feet of the original water-level recorded 7-years previously.

We measured a static (non-pumping) water-level of 458.45 feet below measuring point (bmp) , which is 3.5 feet above the pump house floor. The measuring point is also the bottom of the air-gage which was reading 458 feet bmp. Main pressure was constant at 80 psi. A chart on the pump house wall showed handwritten measurements for every-other-day readings in April. These confirmed that the well had not been pumped during April and that static water-level and system pressure had been relatively constant through the month.

An 18-foot diameter, 16-foot high, 31,700 gallon steel tank is situated about 50-feet from the pump house (Figure 4). The tank was plumbed to the well's discharge piping at some time in the past, but the 8-inch line is disconnected and blind-flanged inside of the pump house. The tank was apparently used as a reservoir for the World Center prior to construction of the 24-inch pipeline and the Columbia Reservoir.

Ten Mile Well:

The UWID Ten Mile Well is housed inside of an 18-foot by 32-foot, cinder block pump house (Figure 5). It is equipped with an 11-inch, 13-stage, Model 11CHC "Goulds" deep well turbine pump (Appendix B) set on 640-feet of 10-inch diameter column. The pump is driven by a 300 HP, 1775 rpm, U.S. Motors motor. The discharge line is 12-inch diameter except for 5-feet of 8-inch line which houses the flow-meter. A total of 20.5-feet of discharge is exposed in the pump house with 12-feet of pipe upstream of to the flow-meter and 8.5-feet downstream. The flow-meter, which is factory-installed in an 8-inch spool, meets manufacturer's installation recommendations for accurate metering. Plumbed into the discharge piping is an 8-inch flow-meter, 12-inch back-flow prevention valve, water sampling port, 2-inch diameter screened vent, 12-inch control valve, and an 8-inch diameter flush line (Figure 5).

The installed pump is the original, set in May of 1997. The design point of the Ten Mile well pump is 900 gpm at 825-feet of total dynamic head (Appendix B). The pump was operating at 892 gpm, from a pumping water-level of

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568-feet, against 50 psi system pressure during the field exam. A pump house wall-chart showed that the well had been pumping during the month of April at discharge rates to 920 gpm, at 56 psi, with a pumping water-level of 569-feet below measuring point (bmp). The recorded pumping water-level readings were clearly taken from the air-line gage. I attempted to measure the pumping water-level but the 1-inch diameter sounding tube was blocked with an obstruction. The last four years of pump house records and digitally acquired telemetry data (Appendix A) show that the well regularly yields instantaneous flow rates to 1027 gpm and runs continuously though the peak water use season. I have personally observed the pump running at these flow rates on numerous occasions, over the last four years, during aquifer testing and water-quality sampling of the well. At the time of the field –exam, the flow-meter's totalizer was at 602,575,000 gallons and system pressure was 50 psi. The Ten Mile Well is piped directly to a 24-inch diameter water supply main which extends to the UWID Columbia Reservoir (Figure 2).

Pioneer Well:

UWID's Pioneer Well is housed inside of an 18-foot by 36-foot pump house (Figure 6). It is equipped with an 14-inch diameter, 7-stage, Model 14JKH "Ingersoll-Dresser" deep well turbine pump set on 635-feet of 10-inch diameter column. The pump is driven by a 300 HP, 1800 rpm, U.S. Motors-Titan Series motor. The discharge line is 12-inch diameter except for 5-feet of 8-inch line which houses the flow-meter. The flow-meter, which is factory-installed in an 8-inch spool, meets manufacturer's installation recommendations for accurate metering. Plumbed into the discharge piping is an 8-inch flow-meter, back-flow prevention valve, water sampling port, 2-inch diameter screened vent, 12-inch control valve, and a by-pass flushing valve to an 8-inch diameter flush line (Figure 6).

The installed pump is the original, set in April of 1998. The design point of the Pioneer well pump is 1200 gpm at 780-feet of total dynamic head (Appendix B). The pump was operating at 1098 gpm, from a pumping water-level of 604-feet, against 36 psi system pressure during the field exam. The April 2000 pump house records, (on the wall at the time of the exam), showed non-pumping water-levels to range between 562-feet bmp (April 1st)-to-612-feet bmp (April 23rd) and the pumping water-levels to range between 598-feet bmp-to-605-feet bmp. These non-pumping versus pumping water-level measurements do not make sense and I suspect the air-line and gage need to be replaced. The recorded pumping water-level readings were clearly taken from the air-line gage. I attempted to measure the pumping water-level , during the field exam, but the 1-inch diameter sounding tube was blocked with an obstruction. The last two-and-one-half years of pump house records and digitally acquired telemetry data (Appendix A) show that the well regularly yields instantaneous flow rates to 1080 gpm and that the pump runs continuously though the peak water use season. The pump motor is equipped with a variable-frequency-drive which can vary discharge automatically against system demand and/or system pressure. The Pioneer well's flow-meter totalizer read 62,7893,000 gallons and system pressure was 36 psi at the time of the field examination. The well is piped directly to a 24-inch diameter, water-supply main which extends to the UWID Columbia Reservoir.

RECOMMENDATIONS:

I recommend that Municipal water right No. 63-12138 be licensed for a diversion rate of 3.90 cfs with a 8/19/1994 priority date. United Water Idaho has applied the waters under this permit to full beneficial use.

Have conditions of permit approval been met? _X_ yes ___ no

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F. FLOW CALCULATIONS _____ Additional Computation Sheets Attached

Measured Method:

Instantaneous flow calculations are based upon years of high-quality, magnetic flow-meter readings from in-line flow-meters installed according to manufacturer's recommended piping distances. These readings are backed up by the water rights examiner's personal experience with the pump-testing of each of the four wells in question. In other words, the tested specific capacities of all four wells agree with the measured yield and water-level data supplied.

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R}$ = (Acres Irrigated) x (Irrigation Requirement) =

$V_{D.R.}$= [Diversion Rate (cfs)] x (Days in Irrigation Season) x 1.9835 =

V = Smaller of $V_{I.R.}$ and $V_{D.R.}$=

B

2. Volume Calculations for Other Uses:

Not applicable to a municipal water right.

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use From	Period of Use To	Rate of Diversion Q (cfs)	Annual Volume V (afa)
Municipal	Jan. 1	Dec. 31	3.90 cfs	N/A
		Totals:	3.90 cfs	N/A

2. Recommended Amendments

__ Change P.D. as reflected above __ Add P.D. as reflected above X None

__ Change P.U. as reflected above __ Add P.U. as reflected above __ Other

I. AUTHENTICATION

Field Examiner's Name **Edward Squires** Date **July 6, 2000**

Reviewer _____ Date _____

SEAL

REGISTERED PROFESSIONAL GEOLOGIST
EDWARD. SQUIRES
968
STATE OF IDAHO

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FIGURES

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SOUTH COLE ROAD

Hollilynn Drive

UWID Raptor

UWID Tenmile

UWID Pleasant Valley

Gravel Pit

UNITED WATER PIPE LINE

24-INCH DIAMETER

Southeast Boise Groundwater Management Area boundary

SEBGWMA

To UWID's integrated system

Columbia Reservoir 3 MG

UWID Pioneer

Yanke West

Yanke Middle

Yanke South

Mooney well (Micron)

PLEASANT VALLEY ROAD

STATE PENITENTIARY

Penitentiary well #6

Eightmile Creek

Fivemile Creek

Tenmile Creek

Gravel Pits

Well

Res

N

1 mile

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Map showing the locations of United Water Idaho's wells, pipeline, and Columbia Reservoir in the south Boise area, within Township 2 North, Range 2 East. The four UWID wells are mutual points of diversion for three of its permitted municipal water rights. (No. 63-12043, No. 63-12138, and No. 63-12139)

Figure 1.

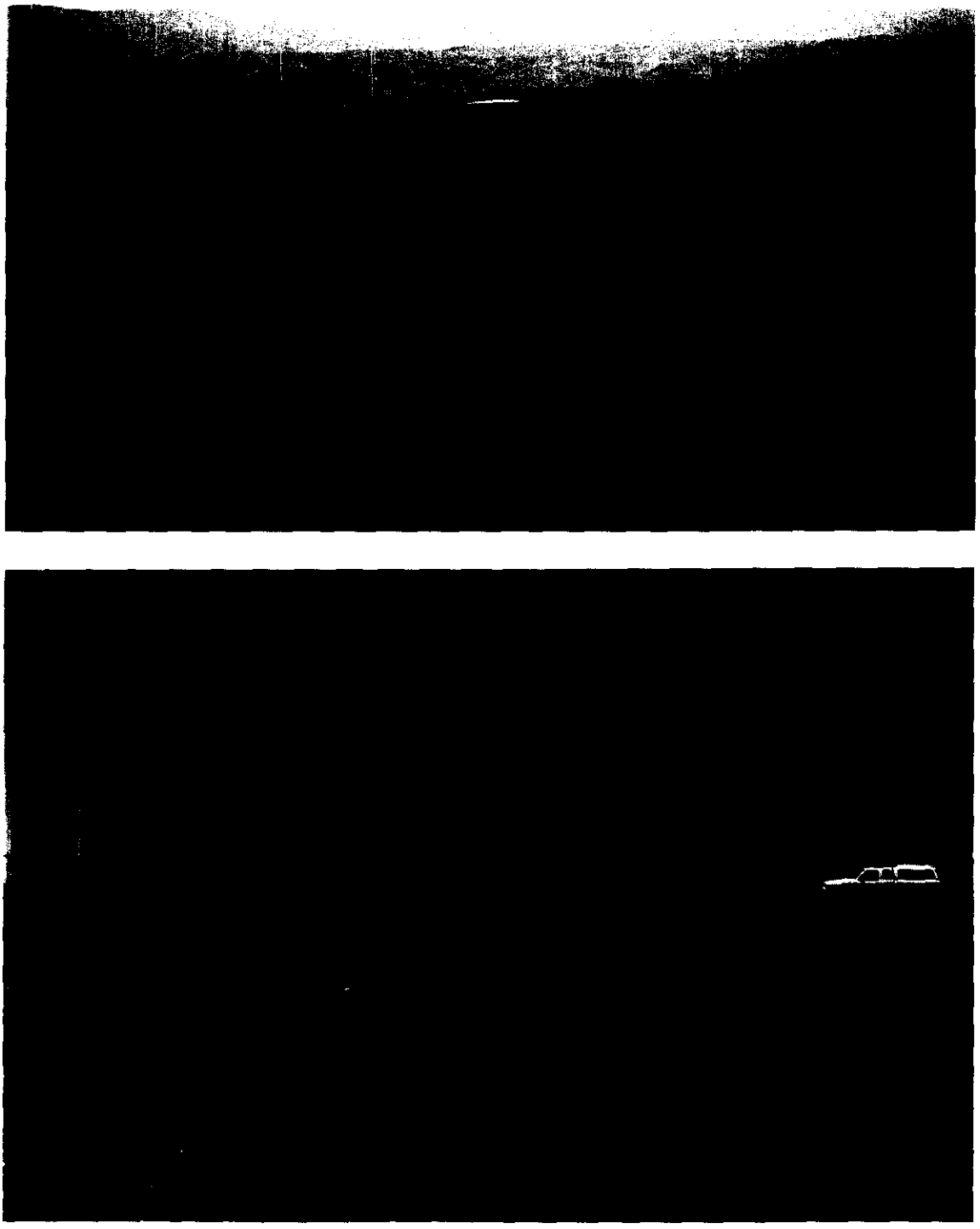


Figure 2. UWID's three-million-gallon Columbia Reservoir in southeast Boise. Upper photo is looking east from the UWID Pioneer supply well. Red dashed line is the route of the 24-inch diameter water main connecting UWID's Ten Mile Ridge wells (Fig. 1). Lower photo looks west at the steel tank and fenced perimeter.

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Figure 2.

Figure 3. Photographs of the exterior of United Water Idaho's Pleasant Valley well's pump house and interior discharge-piping configuration at the well head.

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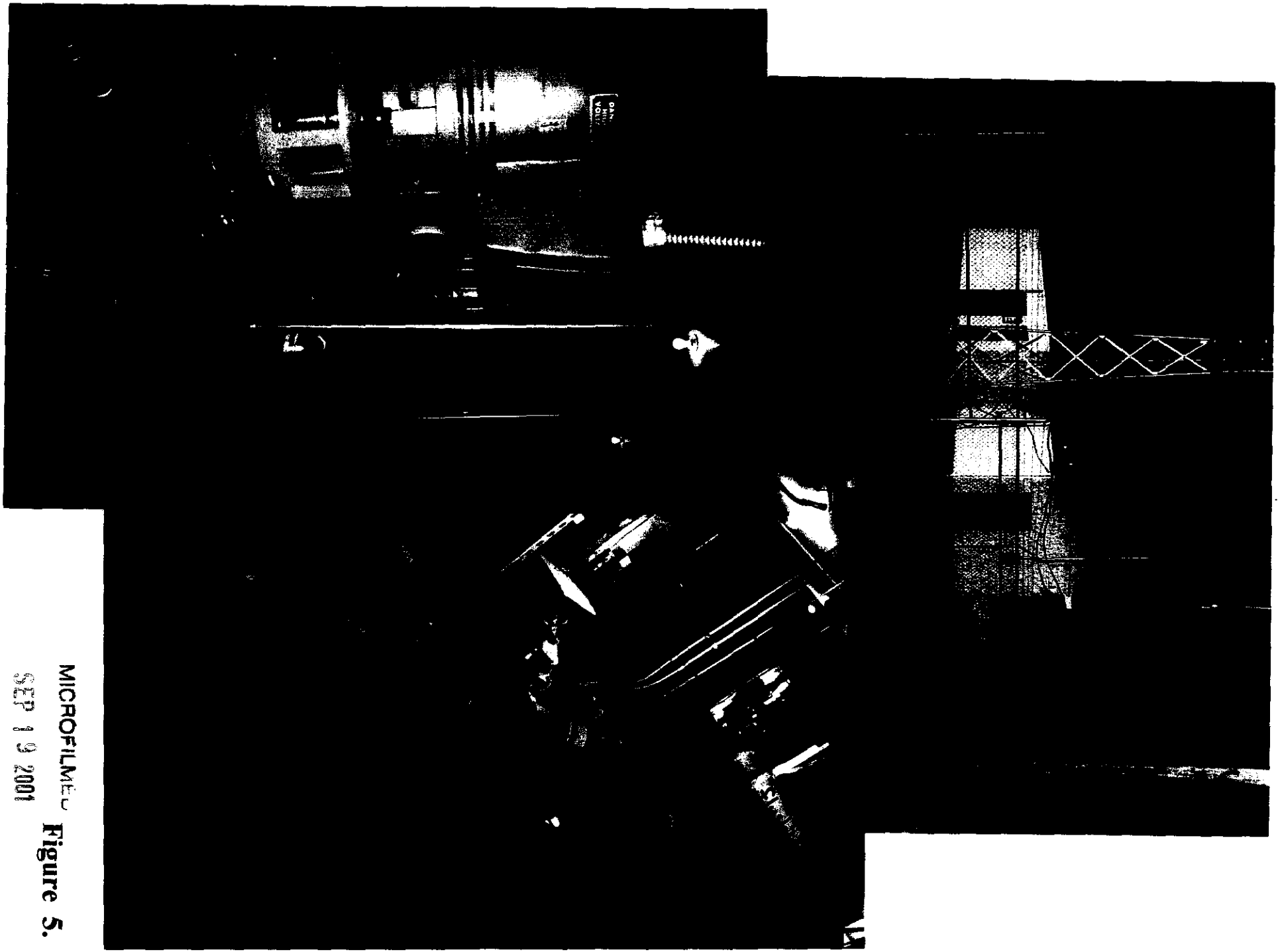
Figure 3.

Figure 4. UWID Raptor well photos showing piping configuration and pump house located within the World Center for Birds of Prey compound in south Boise.

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Figure 4.

Figure 5. United Water Idaho "Ten Mile" well pump-house and interior discharge-piping and well head configuration.



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Figure 5.

Figure 6. United Water Idaho "Pioneer" well pump-house and interior discharge-piping and well head configuration.

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Figure 6.

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APPENDIX A

Handwritten daily pump-house charts and digitally acquired water-production summaries for United Water Idaho's Pleasant Valley, Raptor, Ten Mile, and Pioneer water supply wells for the years 1995-to-present.

*** Water production totals are measured in gallons X 1000**

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UNITED WATER IDAHO

1999 PRODUCTION SUMMARY

GOWEN	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
AMITY	28,432	27,698	36,129	34,785	37,338	34,880	35,174	29,710	15,896	15,311	11,626	27,436	334,215
BIF	0	0	0	0	2,016	0	6,671	15,086	5,727	0	0	0	29,480
BYRD	0	0	0	0	1,655	10,734	11,615	11,626	5,755	0	0	0	41,385
JR FLAT	5,360	15,483	17,102	21,356	18,883	22,935	21,775	19,362	20,445	22,287	17,872	9,734	212,694
MAC	0	0	0	10,529	35,830	34,720	35,928	26,367	21,427	1,046	0	0	165,847
MARKET	42,739	37,240	42,104	40,600	41,406	40,219	39,554	39,739	39,583	40,008	33,952	32,475	489,619
SUNSET WEST	0	0	0	9,658	32,181	58,291	72,094	66,347	56,703	55,072	62,962	18,545	431,833
TERTELING	15,316	13,842	15,235	14,763	14,524	13,622	13,884	13,793	13,487	13,782	13,136	13,860	169,046
TOTAL	91,847	94,063	110,570	131,671	183,853	215,401	256,695	222,010	178,823	147,506	139,550	102,050	1,854,119
INTERTIES	25,280	2,290	8,020	9,500	(3,990)	5,650	(4,850)	(59,940)	(48,530)	(51,810)	(104,960)	(52,120)	(275,460)
	117,127	96,353	118,590	141,171	179,845	221,051	251,845	162,070	130,293	95,696	34,590	49,930	1,578,659

PIONEER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
PIONEER	0	19,998	48,189	46,389	47,576	45,116	46,194	44,839	44,767	40,071	2,982	1,243	387,354
PLEASANT VALLEY	85,651	43,023	7,490	52,183	65,365	78,609	81,716	58,016	28,092	9,038	0	0	509,183
RAPTOR	0	0	0	0	0	0	12,243	8,572	291	0	0	0	21,106
TEN MILE	0	0	0	0	12,215	26,736	37,280	42,903	41,520	42,899	39,732	39,058	282,343
TOTAL	85,651	63,021	55,659	98,582	125,156	150,461	177,433	154,330	114,670	92,008	42,714	40,301	1,199,986
INTERTIES	(55,880)	(32,660)	(34,780)	(55,610)	(57,050)	(83,170)	(63,410)	(55,760)	(33,630)	(29,870)	(8,160)	500	(509,490)
SYSTEM TOTAL	29,771	30,361	20,879	42,972	68,106	67,291	114,023	98,570	81,040	62,138	34,554	40,801	690,506

SECOND BENCH	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
COLE	0	1	0	0	0	0	0	0	0	0	0	0	1
COUNTRY CLUB	0	0	0	0	13,498	19,229	29,282	24,552	16,486	2,455	0	0	105,502
HILLCREST	34,262	33,568	38,161	36,673	38,764	36,038	35,685	34,827	33,791	33,634	26,441	34,113	415,957
HUMMEL	0	0	0	0	0	63	18,458	20,054	3,910	0	0	0	42,485
KIRKWOOD	1,443	0	0	0	0	6,727	12,267	12,036	10,661	3,429	0	0	46,563
OVERLAND	0	0	0	23,387	27,586	38,207	43,630	39,508	39,789	11,074	19	1	223,201
TOTAL	35,705	33,569	38,161	60,060	79,848	100,264	139,322	130,977	104,637	50,592	26,460	34,114	833,709
INTERTIES	0	180	2,690	(110)	18,970	45,790	28,530	16,130	4,000	21,640	24,980	6,340	169,140
SYSTEM TOTAL	35,705	33,749	40,851	59,950	98,818	146,054	167,852	147,107	108,637	72,232	51,440	40,454	1,002,849

FERRIC	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FLOATING FEATHER	4,417	3,636	2,303	30,649	46,974	57,179	53,630	56,909	51,999	24,477	5,426	6,276	342,875
REDWOOD CREEK	0	0	0	0	84	5,054	13,047	2,241	486	0	0	368	21,280
TOTAL	4,417	3,636	2,303	30,649	47,058	62,233	66,677	59,150	52,485	24,477	5,426	6,644	364,155

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1998 PRODUCTION SUMMARY

GOWEN	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
AMITY	35,125	31,463	34,862	27,705	19,204	34,460	35,660	30,748	28,698	32,146	22,174	30,964	383,209
BIF	0	0	0	0	14,657	14,106	12,748	12,180	2,931	0	0	0	56,617
BYRD	0	0	0	19	7,492	11,282	12,052	13,071	3,180	0	0	0	47,046
GOWEN	0	0	0	0	0	0	0	0	0	0	0	0	0
JR FLAT	21,637	19,374	19,357	21,296	21,152	23,580	23,101	17,906	18,218	19,604	3,858	3,456	212,534
MAC	0	12,766	17,915	24,309	13,672	31,488	41,097	38,435	16,112	1	15	0	205,811
MARKET	40,710	36,435	39,599	39,364	40,800	40,888	42,260	39,920	39,190	40,757	39,633	42,123	481,679
SUNSET WEST	1	0	0	20,793	19,771	26,930	70,300	71,728	61,412	19,858	454	0	291,247
TERTELING	11,483	11,515	15,063	14,578	14,289	14,066	14,590	14,624	13,813	15,274	15,075	15,412	169,902
TOTAL	108,956	111,553	126,796	152,064	151,137	196,770	251,996	238,613	183,554	127,640	81,205	91,955	1,828,045
INTERTIES	(74,510)	(68,250)	(90,120)	(123,260)	(76,730)	(116,100)	(79,770)	(54,130)	(58,430)	(58,110)	(1,400)	33,840	(786,970)
	34,446	23,303	36,676	24,804	74,407	80,670	172,033	184,482	125,124	69,530	79,805	125,795	1,041,075

COLUMBIA	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
OREGON TRAIL	0	0	0	0	0	0	0	0	0	0	0	0	0
PIONEER	0	0	0	0	0	0	28,635	48,959	43,333	47,268	37,881	0	206,076
PLEASANT VALLEY	44,241	27,469	59,262	64,066	57,923	78,358	84,464	83,690	78,533	42,451	28,419	82,779	731,637
RAPTOR	16,057	17,800	3,488	9,333	5,560	8,282	26,377	24,931	9,663	4	4	0	121,500
TEN MILE	0	0	0	0	8,896	0	35,828	41,968	13,220	1,309	0	0	101,231
TOTAL	60,298	45,269	62,750	73,391	72,379	86,641	175,304	199,548	144,749	91,032	66,304	82,779	1,160,444
INTERTIES	(24,950)	(16,900)	(29,250)	(34,050)	(18,090)	(19,740)	(66,420)	(89,680)	(76,720)	(41,620)	(30,970)	(61,070)	(509,460)
	35,348	28,369	33,500	39,341	54,289	66,901	108,884	109,868	68,029	49,412	35,334	21,709	650,984

SECOND BENCH	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
COLE	1	2	2	699	651	4	7,651	6,282	293	13	0	0	15,598
COUNTRY CLUB	0	0	0	1,481	11,014	26,087	38,963	31,122	27,154	8,183	0	0	189,004
HILLCREST	7,666	0	0	24,360	34,744	31,880	36,410	34,751	30,029	32,884	30,195	33,021	295,930
HUMMEL	0	0	0	0	0	0	9,822	17,905	866	0	0	0	28,593
KIRKWOOD	9,011	10,436	11,765	10,908	10,477	11,620	12,040	12,024	11,917	12,172	11,411	4,663	128,444
OVERLAND	5,820	0	127	1,149	4,244	8,858	43,574	42,673	14,738	0	0	6	121,199
TOTAL	22,498	10,438	11,964	38,597	61,130	78,449	148,460	144,757	84,997	53,252	41,606	37,690	728,768
INTERTIES	9,310	15,830	22,420	20,670	2,240	9,750	(70)	16,030	21,610	5,890	(3,990)	(440)	119,250
	31,798	26,268	34,384	59,267	63,370	88,199	148,390	160,787	106,607	59,142	37,616	37,250	848,018

MICROFILMED

UNITED WATER IDAHO

1997 PRODUCTION SUMMARY

GOWEN	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
AMITY	39,017	34,388	38,827	36,053	36,539	34,664	35,587	34,389	32,259	33,409	33,913	34,439	423,484
BIF	0	0	0	1,259	12,846	12,467	12,941	12,896	12,528	6,913	0	0	71,852
BYRD	0	0	0	2,678	11,713	10,840	11,636	11,683	11,292	9,723	0	0	69,565
GOWEN	15,963	26,055	30,101	25,444	44,809	41,797	41,490	38,233	0	0	0	0	268,852
JR FLAT	22,035	13,969	21,886	18,614	12,293	23,662	25,479	25,813	24,022	23,286	22,292	21,914	255,285
MAC	0	0	0	17,644	33,767	18,737	39,466	42,158	15,614	1,099	0	0	168,485
MARKET	34,883	38,734	42,292	40,745	41,608	40,106	42,462	42,135	40,604	41,528	40,079	41,151	486,327
SUNSET WEST	0	0	0	0	25,288	56,535	63,425	69,355	66,781	45,133	16	1	326,534
TERTELING	0	0	0	13,608	14,005	14,238	12,849	11,034	10,038	11,009	11,152	11,693	109,626
TOTAL	111,918	113,166	132,606	156,045	232,868	253,046	285,275	286,196	213,138	172,100	107,452	109,198	2,175,010
INTERTIES	(75,300)	(76,760)	(49,970)	(51,713)	(85,583)	(90,268)	(116,133)	(87,220)	(50,070)	(58,620)	(70,850)	(92,810)	(905,292)
SYSTEM TOTAL	36,618	36,406	82,636	104,332	147,285	162,783	169,142	200,976	163,068	113,480	36,602	16,388	1,269,718

COLUMBIA	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
OREGON TRAIL	0	0	0	0	31	0	2,853	8	0	0	0	0	2,892
PLEASANT VALLEY	16,858	0	0	45,199	71,006	68,389	83,004	85,187	82,355	75,427	63,436	70,409	661,470
RAPTOR	34,844	35,255	37,216	19,860	23,091	23,966	27,523	26,653	12,481	7,604	2,051	0	250,549
TEN MILE	0	0	0	0	0	0	29,009	26,478	13,950	3,366	72	181	73,056
TOTAL	51,702	35,255	37,216	65,059	94,128	92,555	142,389	138,331	108,786	86,397	65,559	70,590	988,467
INTERTIES	(16,210)	2,160	14,400	7,683	1,173	(287)	(33,557)	(33,020)	(30,700)	(24,000)	(30,560)	(38,380)	(181,298)
SYSTEM TOTAL	35,492	37,415	51,616	72,742	95,301	92,268	108,832	105,311	78,086	62,397	34,999	32,210	807,169

SECOND BENCH	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
COLE	59	0	25	526	169	870	3,153	3,837	2,910	918	251	0	12,718
COUNTRY CLUB	0	0	0	11,203	21,484	18,458	27,867	31,692	26,953	9,114	0	0	146,771
HILLCREST	23,320	30,865	37,759	37,572	38,945	36,059	35,728	28,864	35,806	31,648	37,869	37,945	412,380
HUMMEL	0	0	0	0	0	0	4,215	12,049	369	0	0	0	16,633
KIRKWOOD	0	0	0	0	0	0	0	0	0	0	0	0	0
OVERLAND	58	0	0	4,181	21,290	25,641	37,967	42,928	7,477	477	1,338	421	141,778
TOTAL	23,437	30,865	37,784	53,482	81,888	81,028	108,930	119,370	73,515	42,157	39,458	38,366	730,280
INTERTIES	8,420	390	(4,190)	1,930	9,300	21,250	22,640	24,910	17,260	23,680	(2,570)	(1,890)	121,130
SYSTEM TOTAL	31,857	31,255	33,594	55,412	91,188	102,278	131,570	144,280	90,775	65,837	36,888	36,476	851,410

MICROFILMED
SEP 19 2001

UNITED WATER IDAHO
PRODUCTION SUMMARY 1995

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	TOTAL
AMITY	0	0	0	3,358	9,392	22,188	24,772	22,932	21,569	40,564	31,127	6	175,908
BIF	0	0	0	0	755	14,213	13,305	11,600	13,946	1,586	0	0	55,405
BYRD	0	0	0	8,826	10,910	10,716	11,381	10,947	10,683	1,171	0	0	64,634
GOWEN	28,222	14,537	16,958	29,202	35,833	44,559	57,301	49,101	30,178	36,131	52,578	56,358	450,958
JR FLAT	20,193	0	0	0	11,671	25,618	26,127	26,018	24,657	25,178	25,123	25,910	210,495
MAC	0	0	0	7	0	7,531	26,858	29,620	4,193	0	5	0	68,214
MARKET	10,115	39,375	43,526	42,769	43,734	43,230	44,879	44,469	42,195	24,940	6,117	19,520	404,869
OREGON TRAIL	31,462	28,716	31,411	29,867	30,204	14,806	28,492	26,881	25,229	25,003	20,655	6,795	299,521
RAPTOR	0	85	100	419	585	2,359	2,296	40,506	45,309	46,314	31,412	28,917	198,302
SUNSET WEST	0	1	0	19	2,395	47,396	69,835	72,657	53,673	0	0	0	245,976
TERTELING	9,425	8,294	9,065	8,726	9,250	9,170	9,554	10,308	9,653	7,208	0	0	90,653
[illegible]	99,417	91,008	101,060	123,193	154,729	241,786	314,800	345,039	281,285	208,095	167,017	137,506	2,264,935
INTERTIES	*(654)*	*(68)*	*(782)*	*(5,082)*	*(6,386)*	*(33,360)*	*(51,380)*	*(61,540)*	*(42,590)*	*(50,110)*	*(52,839)*	*(48,750)*	*(353,541)*
[illegible]	98,763	90,940	100,278	118,111	148,343	208,426	263,420	283,499	238,695	157,985	114,178	88,756	1,911,394

SECOND BENCH	JAN	FEBR	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
COLE	0	311	0	1,804	2,058	3,679	6,725	5,294	6,646	5,365	1	0	31,883
COUNTRY CLUB	0	0	0	1,901	5,939	16,057	29,778	20,531	15,335	5,014	0	0	94,555
HILLCREST	32,311	27,932	32,512	41,815	41,550	42,131	41,684	39,061	34,618	24,642	16,646	31,529	406,431
HUMMEL	0	0	0	205	0	0	0	0	0	0	0	0	205
KIRKWOOD	162	1,229	193	258	670	1,479	1,436	351	751	5,908	1,574	1,648	15,659
OVERLAND	0	0	0	750	10,198	28,081	42,341	41,639	22,497	496	0	0	146,002
[illegible]	32,473	29,472	32,705	46,733	60,415	91,427	121,964	106,876	79,847	41,425	18,221	33,177	694,735
INTERTIES	*0*	*0*	*320*	*(30)*	*20*	*4,610*	*11,820*	*12,940*	*16,230*	*21,620*	*3,570*	*(640)*	*70,460*
[illegible]	32,473	29,472	33,025	46,703	60,435	96,037	133,784	119,816	96,077	63,045	21,791	32,537	765,195

MONTHLY TOTALS

	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	95 TOTAL
ROUNDING ERROR	2	2	3	(1)	(4)	1	0	1	3	5	0	(1)	11
ADDED TOTAL	549,433	492,897	552,662	753,723	1,002,113	1,584,200	2,037,491	2,051,635	1,564,499	912,186	596,071	573,039	12,669,949
UWI PRODUCTION	549,435	492,899	552,665	753,722	1,002,109	1,584,201	2,037,491	2,051,636	1,564,502	912,191	596,071	573,038	12,669,960
PURCHASED WATER	0	0	0	0	0	0	11,420	21,175	27,228	1,680	0	0	61,503
[illegible]	549,435	492,899	552,665	753,722	1,002,109	1,584,201	2,048,911	2,072,811	1,591,730	913,871	596,071	573,038	12,731,463

Water Treatment Record

LOCATION: Raptor — DATE: July '99

DATE	CL2 TOTAL (lbs)	CL2 USED (lbs)	CL2 RES (ppm)	TOTAL PO4 (G)	PO4 USED (G)	SPD/ STK	pH (2/month)	METER READING (1000 gallons)	DAILY TOTAL (MG)	GPM	DD	PSI	OP
1													
31													
30	455	18	0.7					12570		1040	523	94	KB
29													
28	473	8	1.0					10830		1030	512	94	KB
27													
26	481	4	1.1					9920		1044	519	94	SF
25													
24	485	14	.8					9490		1050	517	95	DRA
23													
22								8360		1060	516	95	KB
21													
20	499	20						7590		1040	521		MS
19													
18	519/510	19	.7					4580		1050	528	92	DRA
17													
16	389	7	.7				78	000999		1050	525	92	DRA
15				4.5 gals				0		1070	529	92	KB
14				3:05 PM									
13													
12								out					MS
11													
10													
9													
8													
7								✓					SF
6													
5													
4													
3													
2													
1													
previous month	396							309860				82	KB

TOTAL PRODUCTION: 12.570

PO4 feed rate per 1 MG production = * _____ *

TOTAL CL2 USE: 90

TOTAL PO4 USE: _____

MICROFILMED

Production Supervisor

SEP 15 2000

Water Treatment Record

LOCAT Pleasant Valley DATE: July '99

DATE	CL2 TOTAL (lbs)	CL2 USED (lbs)	CL2 RES (ppm)	TOTAL PO4 (G)	PO4 USED (G)	SPD/ STK	pH (2/month)	METER READING (1000 gallons)	DAILY TOTAL (MG)	GPM	DD	PSI	OP
1													
31													
30	466/320	38	.8					774210		1850	OFF		RB RB
29													
28	358	43	.8					767440		1920	579	72	RB
27													
26	399	42	.8					774000		1860	577	73	SF
25													
24	441	39	.8					756820		1850	577	73	DM
23													
22	489/330	40	.8					751710		1857	576	73	RB
21													
20	370	45	.8					747010		1860	577	72	MS
19													
18	415	37	.8					741710		1870	578	70	DM
17													
16	452/296	46	.8			8.2		736460		1860	578	72	DM
15													
14	342	50	.8					731230		1905	578	65	DM
13													
12	392	50	.8					725810		1898	578	66	MS
11													
10	442/301	54	1.1					720430		1890	577	66	RB
9													
8	361	41	1.0					726660		1900	578	66	SF
7													
6	402	41	.8					721270		1888	577	68	SF
5													
4	443/300	51	0.8					703910		1880	577	70	RB
3													
2													
1													
previous month	351		.8					Meter Out			577	67	DM

MICROFILMED

SEP 1 9 2000

PO4 feed rate per 1 MG production = * _____ *

Production Supervisor

TOTAL PRODUCTION: 70,300

TOTAL CL2 USE: 615

TOTAL PO4 USE: _____

Water Treatment Record

LOCATION: Ten Mile DATE: July '99

DATE	CL2 TOTAL (lbs)	CL2 USED (lbs)	CL2 RES (ppm)	TOTAL PO4 (G)	PO4 USED (G)	SPD/ STK	pH (2/month)	METER READING (1000 gallons)	DAILY TOTAL (MG)	GPM	DD	PSI	OP
new month 1													
31													
30	357	20	.9					249340		956	576	71	RB
29													
28	377	28	.9					246770		970	577	64	RB
27													
26	395	25	.9					243830		958	574	69	SF
25													
24	420	24	.8					241030		960	576	69	DW
23													
22	444	20	.8					238350		960	575	70	RB
21													
20	464	6	.8					235950		964	570	69	MS
19													
18	470	7	/					235210		ø	545	65	DW
17													
16	477/32	23	.8				7.8	234310		960	577	68	DW
15							X						
14	350	23	.8					231630		990	577	58	DW
13													
12	373	23	.8					228820		980	579	60	MS
11													
10	396	24	.7					226050		984	577	60	RB
9													
8	420	23	.9					223060		985	577	60	SF
7													
6	443	13	.8					22060		980	575	62	SF
5													
4	456	18	.8					218640		978	575	64	RB
3													
2													
1													
previous month	474/32		.8					216250		980	578	62	DW

TOTAL PRODUCTION: 33,590

TOTAL CL2 USE: 267

TOTAL PO4 USE:

PO4 feed rate per 1 MG production = * _____ *

Production Supervisor

MICROFILMED
SEP 10 2001

Water Treatment Record

LOCATION: RAPTOR DATE: July '99

DATE	CL2 TOTAL (lbs)	CL2 USED (lbs)	CL2 RES (ppm)	TOTAL PO4 (G)	PO4 USED (G)	SPD/ STK	pH (2/month)	METER READING (1000 gallons)	DAILY TOTAL (MG)	GPM	DD	PSI	OP
last month 1													
31	375	~~0~~	.8					21230		1060	516	90	
30													
29								N/C			455	84	
28													
27	375	~~0~~						21150		~~0~~	452	84	
26													
25	375	0						21150		0	456	84	RG
24													
23													
22													
21	375	6						21100		~~0~~ 1040	459	84	
20													
19	381	15	.9					20530		1040	522	92	MS
18													
17								18240		0	456	84	RG
16							X						
15								N/C			456	84	
14													
13	387	6						18240		~~0~~	462	84	
12													
11	402	7						18040		0		84	RG
10													
9	406	4	0.7					17590		1040	521	94	RG
8													
7	413	12	1.0					16970		1058	517		KG
6													
5	425	15	1.0					15940		1040	522	93	KG
4													
3	440	14	1.0					14460		1058	523	94	RG
2													
1	454	1	1.0					12810	24G	1060	515	95	SM
previous month	455		0.7					12570		1040	523	94	VJ

MICROFILMED

SEP 19 2001

PO4 feed rate per 1 MG production = * _____ *

eye wash needs repair

OK MS Production Supervisor

TOTAL PRODUCTION: 8,6960

TOTAL CL2 USE: 80

TOTAL PO4 USE: _____

Another Pleasant Valley Sunday

Water Treatment Record

LOCATION: _____ DATE: Aug '99

DATE	CL2 TOTAL (lbs)	CL2 USED (lbs)	CL2 RES (ppm)	TOTAL PO4 (G)	PO4 USED (G)	SPD/ STK	pH (2/month)	METER READING (1000 gallons)	DAILY TOTAL (MG)	GPM	DD	PSI	OP
previous month 1													
31	377	19						833310		FB	573	66	
30													
29	396	17	.7					831950		1900	601	70	
28													
27	413	28	.7					827180		1885	598	70	
26													
25	441	17	.7					823210		1890	597	70	
24													
23	459/484	26	.7					820410	2010	1880	598	70	
22													
21	[illegible]1	30	.7				?	818400	770	1885	597	70	
20													
19	361	9	.7					811730	900	1895	600	72	
18													
17	370	24					8.2	810830	1,840	1840	599	72	
16							X						
15	394	[illegible]						818990		OU	575	[illegible]	
14													
13	[illegible]	[illegible]						805120		1900	598	71	
12													
11	424	35	0.8					802790		0	FLUSH	61	
10													
9	459	37	0.8					798090		1854	588	74	
8													
7	196/316	43	.7					792900		1854	583	74	
6													
5	359	31	.8					787760		1850	577	74	
4													
3	390	38	.8					782570		1855	573	74	
2													
1	428	38	.8			—		777500		1860	577	73	
previous month	466							774210					

TOTAL PRODUCTION: 59.100

TOTAL CL2 USE: 422

TOTAL PO4 USE: _____

PO4 feed rate per 1 MG production = * _____ *

Production Supervisor

MICROFILMED

SEP 13 2001

Tennik

DATE	CL2 TOTAL (lbs)	CL2 USED (lbs)	CL2 RES (ppm)	TOTAL PO4 (G)	PO4 USED (G)	STK	pH (2/month)	READING (1000 gallons)	(MG)				
previous month													
1													
31	335	16	.7					293550		980	585	60	DO
30													
29	351	13	.7					290680		968	573	68	SF
28													
27	364	11	.6					288070		968	575	64	DO
26													
25	375	10	↑.4					285250		966	583	64	KB
24													
23	385	23	.8					282550		966	575	64	DO
22													
21	408	16	.8					279640		970	574	64	SF
20													
19	424	11	.7					277290		960	573	53	MS
18													
17	~~405~~ 353	24	.8				7.6	274670		970	578	66	KB
16							X						
15	377	20	.8					271630		980	574	61	SF
14													
13	397	20	.8					268800		970	575	64	DO
12													
11	417	20	.8					266100		961	577	73	KB
10													
9	437	20	.8					263260		957	577	71	KB
8													
7	457	21	.9					260470		960	577	69	KB
6													
5	478	20	.9					257680		953	576	69	KB
4													
3	~~498~~ 316	19	.9					254930		954	577	68	KB
2													
1	335	22	.9					252130		960	576	68	DO
previous month	451		.9					249340		956	576	71	KB

SHOWER - OK IMS 8-19-99

PO4 feed rate per 1 MG production = ° _____ °

Production Supervisor

TOTAL PRODUCTION: 44,210

TOTAL CL2 USE: 286

TOTAL PO4 USE: _____

TOTAL PO4 USE: 27

Shower Test Ready OP KB

MICROFILMED

SEP 19 2001

Pioneer Well Aug 99

								(2/month)	(1000 gallons)	(MG)				
1														
31	355	22	.8						504880		1050	622	35	
30														
29			.1						501900		1042	622	40	
28														
27	477/33		.9						499920		1030	621	40	
26														
25	355	21	.9						495870		1049	621	41	
24														
23	376		.9						493050	3110	1030	621	40	
22														
21	399	14	.7						489940	2060	1033	619	40	
20														
19	412		.9						487950	2860	1022		40	
18														
17	434	19	.8					8.0	485030		1020	623	41	
16								X						
15	455/471	18	.8								1041	622		
14														
13		17	.8								1025	622		
12														
11	330	19	.9						476090		1029	621	41	
10														
9	349	21	.9						473050		1017	622	42	
8														
7	370	21	.9								1011	622	41	
6														
5	391	18							46716		1016	621	42	
4														
3		11									1021	622	40	
2														
1	420		.9						461230		1020	622	40	
previous month	421													

MICROFILMED

SEP 13 2009

PO4 feed rate per 1 MG production = * _____ *

Production Supervisor

TOTAL PRODUCTION: 46 [illegible]

TOTAL CL2 USE: 201

TOTAL PO4 USE: _____

UNITED WATER IDAHO
Water Treatment Report

LOCATION: Rapids DATE: July - Aug '97

DATE	CL2 TOTAL (lbs)	CL2 USED (lbs)	CL2 RES. (ppm)	TOTAL PO4 (G)	PO4 USED (G)	SPD/ STK	pH	METER READING (count your 0's)	DAILY TOTAL (MG)	GPM	DD	PSI	OP
1													
31	491/498	7	.8					138990		840	346	93	
30													
29	346	11	.6					137970		830	512	98	SF
28													
27	359	17	.8					136160		830	514	95	
26													
25	374	14	.8					133740		828	374	97	CO
24													
23	388	18	.8				8.0	131670		835	513	87	RB
22													
21	406	9	.7					128960		825	370	95	LR
20													
19	415	11	—					127880		OFF	335	88	
18													
17	426	17	.8				7.0	125940		835	512	93	
16													
15	443	11	0.8				X	123550		850	504	97	RK
14													
13	454	10	.8					121890		870	512	92	BS
12													
11	464	3		Cleaned				120390		off	470		
10													
9	467	14						120020		OFF	471	90	
8													
7	481/329	17	.8					117850		855	512	92	LR
6													
5	348	10	.9					115360		870	510	94	BS
4													
3	358	9	1.0					114120		890	511	95	RB
2													
1	362							113970					

PO4 use per 1 MG production = * _____ *

TOTAL CL2 USE: 180

TOTAL PO4 USE: _____

TOTAL PRODUCTION: 26220

MICROFILMED

Production Supervisor

SEP 19 2001

Water Treatment Record

LOCATION: PEASANT VALLEY DATE: JULY '97

DATE	CL2 TOTAL (lbs)	CL2 USED (lbs)	CL2 RES (ppm)	TOTAL PO4 (G)	PO4 USED (G)	SPD/ STK	pH	METER READING (1000 gallons)	DAILY TOTAL (MG)	GPM	DD	PSI	OP
1	461	45	.8					269130		1900	574	70	KD
31													
30	906 325	57	.9					263720		1888	574	71	RB
29													
28	382	56	.9					2587.60		1910	620	68	LR
27													
26	438 388	50	.8					252800		1930	574	66	UD
25													
24	338	51	.9				8.1	247850		1930	575	66	RB
23													
22	389	53	.9					242180		1920	574	68	RB
21													
20	442	49	.8					236360	5.040	1930	576	70	UD
19													
18	491 340	48	.7					231320		1918	573	69	CO
17													
16	388	49	0.8					226240		1920	574	68	RB
15													
14	437 281	55	.8				8.2	220430		1914	574	69	LR
13													
12	336	46	.9					214920		1940	570	70	BB
11													
10	382 316	53	0.9					210010		1930	529	66	KD
9													
8	369	54	.9					203950		1936	561	66	MS
7													
6	425 470	51	.9					198260		1960	570	70	BB
5													
4	336	54	.9					181080		1950	570	64	Q
3													
2	390	40	0.9					187330		1960	512	67	RB
1	430		.9					183220					

PO4 feed rate per 1 MG production = * _____ *

TOTAL CL2 USE: 813

TOTAL PO4 USE: _____

TOTAL PRODUCTION: 85.910

Production Supervisor

MICROFILMED

2001

UNITED WATER IDAHO
Water Treatment Record

LOCATION: Ten Mile DATE: July '91

DATE	CL2 TOTAL (lbs)	CL2 USED (lbs)	CL2 RES. (ppm)	TOTAL PO4 (G)	PO4 USED (G)	SPD/ STK	pH	METER READING (count your #'s)	DAILY TOTAL (MG)	GPM	DD	PSI	OP
1	457	20	.7					29440		999	607	65	
31													
30	474	15	.7					26590		990	610	65	
29													
28	489/310	16	.7					23720		1000	643	60	
27													
26	326	16	.8					20820		1000	610	62	
25													
24	342	20	.8				7.6	18350		1000	610	61	
23													
22	362	19	.7					15300		1000	610	64	
21													
20	381	13	.7					12190		1000	610	64	
19													
18	394	15	.7					10330		1010	611	61	
17													
16	409	30	0.8				X	7660		1000	610	64	
15													
14	439	5	.8				8.2	4470		1007	604	65	
13													
12	443	16	ff					3750		off	511	60	
11													
10	459	26	0.9/1.7					2210		1027	603	60	
9													
8	485							0					
7													
6													
5													
4													
3													
2													
1													

PO4 use per 1 MG production = * _____ *

TOTAL CL2 USE: 207

TOTAL PO4 USE: _____

TOTAL PRODUCTION: 27.231

_____
Production Supervisor

MICROFILMED
SEP 1 8 2009

UNITED WATER IDAHO
Water Treatment Record

LOCATION: Rapids DATE: August '97

DATE	CL2 TOTAL (lbs)	CL2 USED (lbs)	CL2 RES. (ppm)	TOTAL PO4 (G)	PO4 USED (G)	SPD/ STK	pH	METER READING (count your #'s)	DAILY TOTAL (MG)	GPM	DD	PSI	OP
1	453	14	.8					166500		870	571	92	RC
31													
30	~~467~~ 318	24	.8					164950		860	513	93	KB
29													
28	~~342~~	13	.8					162250		860	511	97	MS
27													
26	355	7	~~.8~~ .6					160020		863	505	93	MS
25													
24	362	8	.7					158940		850	511	93	RB
23													
22	370	11	.4	Adjusted No Better Than .4				158060		844	514	94	JD
21							7.97						CB
20	381	15	.7				7.9	155660		825	~~507~~	98	LR
19													
18	396	12	.8					153510		847	512	92	LR
17													
16	408	12						151530		~~865~~	511	92	JD
15													
14	420	8	.8					149930		882	511	97	MS
13													
12	428	2	off					148340	.210	off	330	88	CO
11													
10	430	14	—					148130	2.280	OFF	477	92	DM
9													
8	444	14	.8					145850	2.360	826	373	98	CO
7													
6	460	12	.8				8.0	143490	1.960	825	372	97	CO
5													
4	472	6	.8					141530	670	830	507	95	JD
3													
2	478	13	.8					140860	1.870	840	511	95	DM
1													
	491		.8					138990					

PO4 use per 1 MG production = * _____ *

TOTAL CL2 USE: 187

TOTAL PO4 USE: _____

TOTAL PRODUCTION: 27.510

Production Supervisor

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SEP 19 2001

UNITED WATER IDAHO

ter Treatment Record

LOCATION: Pleasant Valley DATE: Aug '97

DATE	CL2 TOTAL (lbs)	CL2 USED (lbs)	CL2 RES (ppm)	TOTAL PO4 (G)	PO4 USED (G)	SPD/ STK	pH	METER READING (1000 gallons)	DAILY TOTAL (MG)	GPM	DD	PSI	OP
1													
31	425	53	.9					351760		1920	570	66	KB
30													
29	478	57	.9					346400		1909	574	69	CB
28													
27	535/360	54	9					340700		1909	572	69	MS
26													
25	414	47	.9					335180		1918	574	68	LR
24	444												
23	278	57	1.0					330470		1919	570	66	KB
22													
21	335	53	1.0				8.2	324120		1917	574	67	KB
20													
19	388	55	.8					318610		1919	573	66	LR
18	443												
17	293	53	1.0					313110		1939	573	66	KB
16													
15	346	53	1.0					307540		1905	574	70	MS
14													
13	399	53	.9				X	302050		1909	572	70	MS
12													
11	452/339	51	.9					296520		1910	574	68	LR
10													
9	390	52	.8					290980		1910	558	68	DR
8													
7	442	29	.9				8.3	285480		1900	556	68	LR
6	471	25											
5	496/358	54	.9					280130		1895	574	70	CB
4							entrained gas	266406		1905	575	70	EL
3	412	49	.8					274490	5.360	1910	572	70	DR
2													
1	461							269130					

PO4 feed rate per 1 MG production = * ____ *

TOTAL CL2 USE: 795

TOTAL PO4 USE: ____

TOTAL PRODUCTION: 82.630

Production Supervisor

MICROFILMED
SEP 13 2001

WATER IDAHO

Water Treatment Record

10 Mile

DATE: Aug '97

DATE	CL2 TOTAL (lbs)	CL2 USED (lbs)	CL2 RES (ppm)	TOTAL PO4 (G)	PO4 USED (G)	SPD/ STK	pH	METER READING (1000 gallons)	DAILY TOTAL (MG)	GPM	DD	PSI	OP
1													
31	435	4	.9					54850		1015	597	63	KG
30													
29	439	13	.9					54470		1003	596	65	CO
28													
27	452	0	.9					52930		1014	585	65	MS
26													
25	452	11	—					52880		OFF	625	60	LR
24													
23	463	23	.8					51760		1000	603	62	KG
22													
21	486	17	.8				8.0	48980		1010	594	62	KG
20													
19	503	7	.9					47100		1000	599	62	LR
18													
17	510	2	.9					46360		0	575	60	KG
16													
15	512	15	8					46040		995	654	66	MS
14													
13	357	12	.8				X	41386		1002	605	65	
12													
11	369	18	.7					42630		1000	608	62	LR
10													
9	387	19	.8					39740	2.860	1000	610	65	KG
8													
7	406	10	.8				7.9	36880	2.490	880	640	60	LR
6	416	9	.8										
5	425	19	.8					34390	2.830	887	596	65	CO
4													
3	444	13	.8					31560	1.120	1000	608	65	KG
2													
1	457							29440					

PO4 feed rate per 1 MG production = * _____ *

TOTAL CL2 USE: 192

TOTAL PO4 USE: _____

TOTAL PRODUCTION: 25,410

Production Supervisor

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SEP 19 2001

APPENDIX B

Technical specifications, performance curves, installation details, and hydraulic pump-test plots for United Water Idaho's Pleasant Valley, Raptor, Ten Mile, and Pioneer water supply wells.

MICROFILMED
SEP 19 2001

1996

Well Setting Data

DATE INSTALLED: 05/21/96 — SETTING TO TOP OF BOWLS: 610 FT

LOCATION: PLEASANT VALLEY #94 — STATIC: 513 FT Jan-96 — OR. STATIC: 494 FT May-96

PUMP

MANUFACTURER	IRRIGATION ENGINEERING						
SERIAL NO.	96006						
TYPE	DWT	COLUMN SIZE	12 IN		TAPERED Y/N	N	
SIZE/MODEL	14AL	DISCH DIAMETER	12 IN				
NO. OF STAGES	11	IMP SETTING FROM TOP OF CASING				610	
RPM	1800	IMP QUA	6	IMP DIAM	11.5	IMP TRIM	F.D.
		IMP QUA	5	IMP DIAM	11.169	IMP TRIM	1/2 A-B
GPM	2000	LENGTH OF TAIL PIECE		5 FT 6IN	TAPERED Y/N	Y	
TDH	780	LENGTH SUCT SCREEN		UNKNOWN			
LENGTH OF BOWLS	14.5 FT	SHAFT LENGTH		77.5 IN	THREADS	10LH	
LENGTH OF MOTOR	N/A	GLAND SHAFT LENGTH		68 IN	SHAFT SIZE	2 3/16 IN	
CURVE NUMBER	14AL-1960						

MOTOR

MANUFACTURER	US MOTORS	EFFICIENCY	84%
SERIAL NO	HD2632/20420100104R-1		
TYPE	DWT	VOLTS	480
MAKE	HUE	AMPS	550
MODEL	HOZ632	PHASE	3
HP	500	CYCLES	60
UPPER BEARING	29426EJ	RPM	1775
LOWER BEARING	6219J	FRAME	500PH

AIR & AQUA LINES

AIR LINE		5/8 IN	610 FT	CHEM LINE		5/8 IN	630 FT
CL2 LINE	COVERED	5/8 IN	630 FT	SOUNDER		1 IN	630 FT

CREW

B. BARRIATUA — S. BESSON
S. FRISBEE — M. STAUFE

REMARKS

SUPERVISOR: D. MAYS

DATE RECIEVED BY DATA ENTRY: 05/21/96 — NAME: BLAINE

MICROFILMED
SEP 19 2001

PUMP SPECIFICATIONS

NAME	UNITED WATER					JOB NUMBER	PLEASANT VALLEY					
PUMP NO.	IE 96006	MAKE	IE HD FAB HEAD			MODEL	12-12-20					
MOTOR NO.		MAKE	US	HP	500	FRAME	5009PH	TYPE	HUE			
RPM	1800	BD	20	BC	14.75	REG.	13.5	CDLG	2.1875	LENGTH	57.9375	
PANEL HP		MAKE		SIZE		TYPE		VOLTS	460			
DISCONNECT AMPS		FUSE AMPS		VOLTS		HEATER NO						
GEAR HEAD NO.		MAKE		MODEL		HP		RATIO				
RPM		BD		BC		REG.		CPLG		LENGTH		
ENGINE MAKE		MODEL		HP		RPM						
HEAD SHAFT LGTH.	68 IN	TOP DIA.	2.1875	THDS.	10LH	BOT. DIA.	2.1875	THDS.	10LH			
SPEC. SHAFT LGTH.	77.5	TOP DIA.	2.1875	THDS.	10LH	BOT. DIA.	2.1875	THDS.				
STRETCH TUBE LGTH.		TOP DIA.		THDS.		BOT. DIA.		THDS.				
SPEC. TUBE LGTH.		TOP DIA.		THDS.		BOT. DIA.		THDS.				
BOWL TUBE LGTH.		TOP DIA.		THDS.		BOT. DIA.		THDS.				
DISCHARGE LGTH.		DIA.		THDS.		DIA.		THDS.				
SUCTION LGTH.	5FT 6IN	DIA.	10.75	THDS.	TPR	STRAINER	NEW CONE					
HEAD COL. LGTH	5FT	DIA.	12.75	THDS.	8B	TUBE		SHAFT	2 3/16 10LH			
60 COL. LGTH	5 FT	DIA.	12.75	THDS.	8B	TUBE		SHAFT	2 3/16 10LH			
COL. LGTH.		DIA.		THDS.		TUBE		SHAFT				
BOWL COL. LGTH.	5 FT	DIA.	12.75	THDS.	8B	TUBE		SHAFT	2 3/16 10LH			
TOTAL COL. SETTING	610 FT	STICKUP				TUBE		SHAFT				
BOWL DESCRIPTION	14AL	NO. STAGES	11	GPM	2000	T.D.H.	780					
QUANT.	6	IMPELLER	14AL	TRIM	F.D.	DIA.	11.5					
QUANT.	5	IMPELLER	14AL	TRIM	1/2A-B	DIA.	11.169					
BOWL SHAFT DIA.	2.1875	LGTH.	179.25	STICKUP	10.5625	TOP DIA.	2.1875	THDS.	10LH			
TUBE ADAPTER DIA.		THDS.		STICKUP								
WELL NO.		TOP DIA.		TO DEPTH		TOTAL DEPTH						
SIZE LINER		FROM DEPTH		TO DEPTH								
SIZE LINER		FROM DEPTH		TO DEPTH								
PERFORATIONS												
DATE PULLED		DEPTH		SWL		DATE INSTALLED		DEPTH		SWL		
DATE T.P. INST.		DEPTH		SWL		DATE TP PULLED		DEPTH		SWL		
SANDED FROM DEPTH				TO DEPTH		DATE						

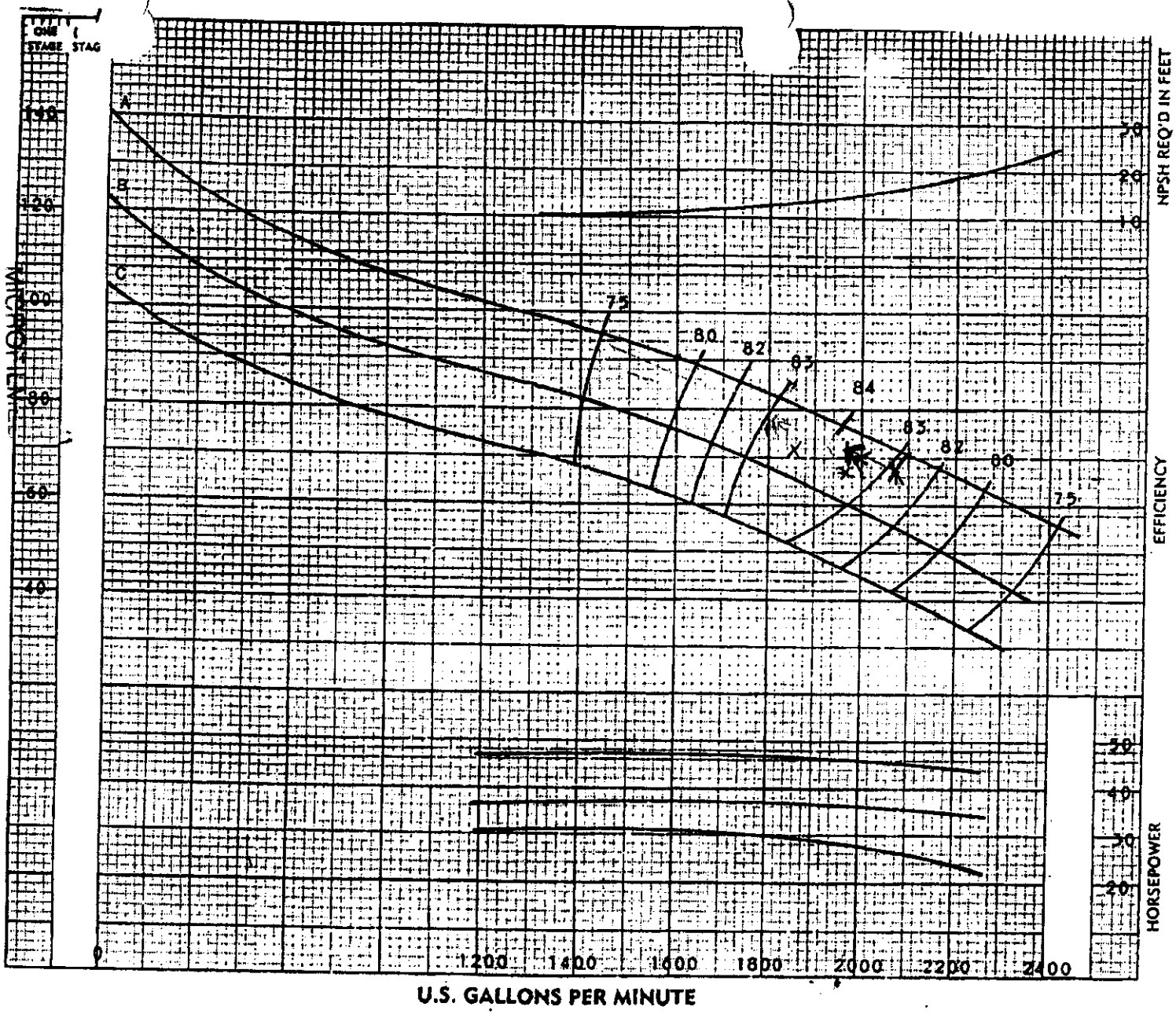
REMARKS: COLUMN LENGHT 610FT

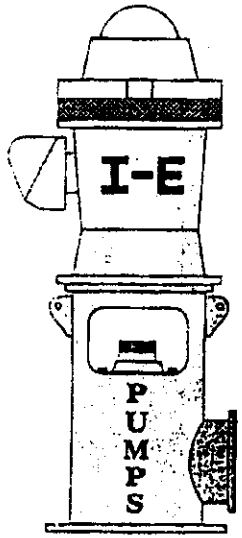
BOWLS 14.5 FT

SUCTION PIPE AND STRAINER 5.5FT

DATE COMPLETED by SIGNATURE

MICROFILMED
SEP 13 2001





1567 E. HWY. 160
P.O. BOX 112
MONTE VISTA
COLORADO 81144

(719) 852-5174

I-E

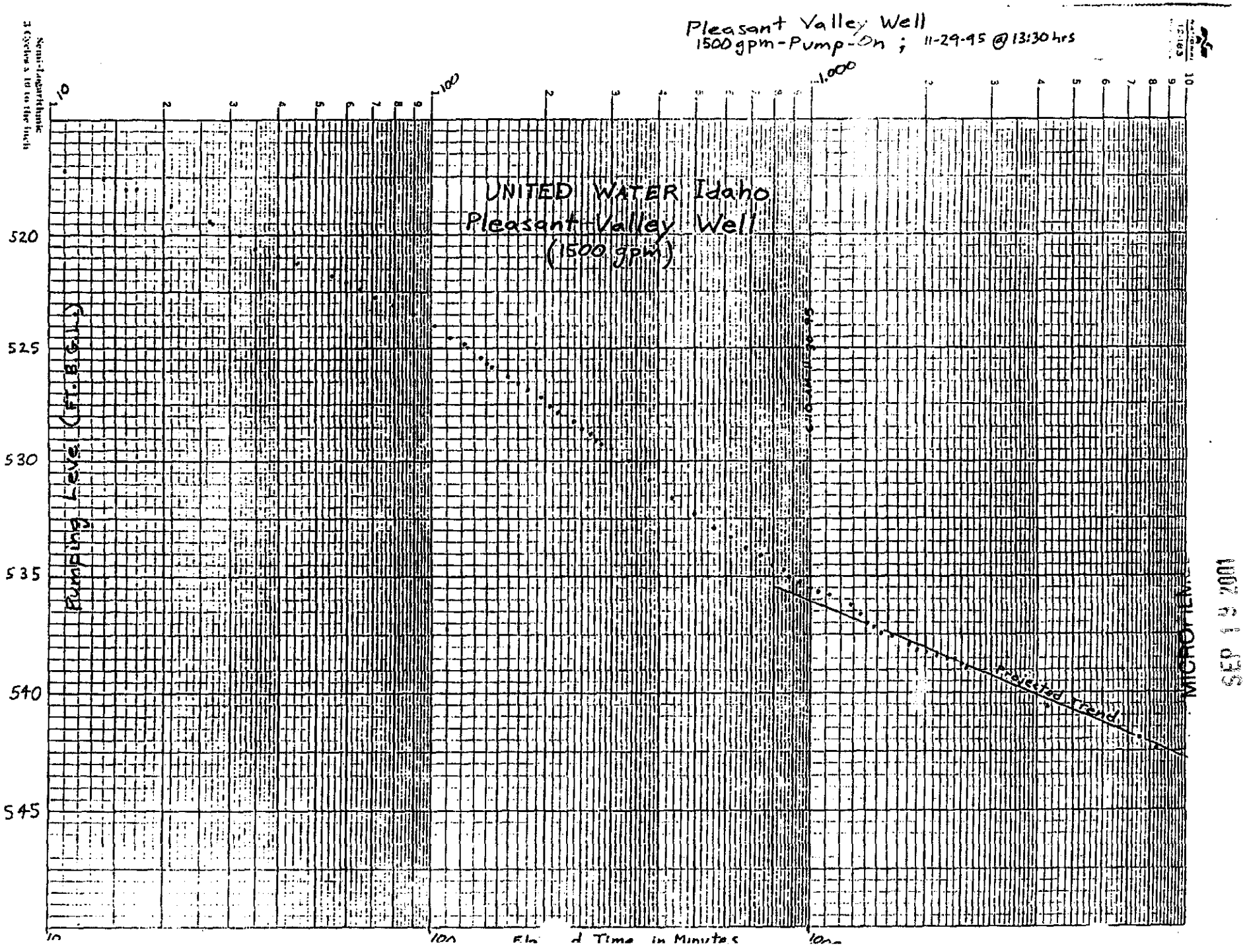
"TOP-O-THE LINE"

Pleasant Valley

14AL-1960 DESIGN

1770 R.P.M.

SECTION N
PAGE 136
DATE 12-20-90


Pleasant Valley Well
1500 gpm - Pump-On ; 11-29-95 @ 13:30 hrs
UNITED WATER Idaho
Pleasant Valley Well
(1500 gpm)
Projected Trend
Pumping Level (Ft. BTOC)
520
525
530
535
540
545
10
100
1,000
Elapsed Time in Minutes
MICROFILMED
SEP 24 2001

United Water

SHEET 1 OF _____

BY Squires DATE 11-20-95 PROJECT _____ CONTACT _____

DESCRIPTION Pleasant Valley Well Pump IWO# _____

Pleasant Valley well was pumped for _____ minutes on 11/17/95 at 1500 gpm. Drawdown at the end of the test was _____ feet BTOC. Specific capacity calculates to _____ gpm/foot.

This test was carried out near the bottom of the annual water-level fluctuation and after Raptor well had been continuously pumping for 3 months. Except for influences from the new proposed Tenmile well which must be taken into account, we tested under fairly realistic "worst case" conditions.

Using pumping-water-level projections in concert with actual long-term measurements in the Raptor well, we believe that pumping water-level will stabilize at about 585 ft after 2 weeks of continuous pumping at 2000 gpm.

We began to see drawdown at the Tenmile site during pumping of the Pleasant Valley well. It is apparent that much time will need to pass before the full drawdown at that location will occur.

MICROFILM

SEP 19 2001

WELL SETTING DATA

DATE INSTALLED: 07/14/99 — SETTING TO TOP OF BOWLS: 590 FT

LOCATION: RAPTOR — STATIC: — OR. STATIC: 445 FT

PUMP

MANUFACTURER	GOULD			SERIAL NO.	FR412083		
NUMBER OF COLUMS	58	SIZE	10 IN	LENGHT	10 FT	TAPERED Y/N	NO
NUMBER OF COLUMS	2	SIZE	10 IN	LENGHT	5 FT	TAPERED Y/N	NO
NUMBER OF SHAFTS	58	SIZE	1 15/16	LENGHT	10 FT	THREADS	10 LH
NUMBER OF SHAFTS	1	SIZE	1 15/16	LENGHT	5 FT	THREADS	10 LH
NO. OF STAGES	13	IMP QUA	13	IMP DIAM	8.690	IMP TRIM	
SIZE/MODEL	12CLC	IMP QUA		IMP DIAM		IMP TRIM	
TYPE	DWT			DISCH DIAMETER	10 IN	IMP NUMBER	
GPM	1000			LENGTH OF TAIL PIECE	7 FT	TAPERED Y/N	YES
RPM	1775			HEAD SHAFT LENGTH	52 IN	SHAFT SIZE	1 15/16
TDH	775			GLAND SHAFT LENGTH	66 5/8 IN	SHAFT SIZE	1 15/16
LENGTH OF MOTOR				LENGTH OF BOWLS	13 FT 3.5 IN		
CURVE NUMBER							

MOTOR

MANUFACTURER	US	EFFICIENCY	
SERIAL NO	C04-7258-MD2		
TYPE	RU	VOLTS	460
MAKE	DWT	AMPS	290
MODEL		PHASE	3
HP	250	CYCLES	60
UPPER BEARING	29422-EJ	RPM	1775
LOWER BEARING	6215-J	FRAME	445TPA

AIR & AQUA LINES

AIR LINE		3/8 IN	595 FT	CHEM LINE		1/2 IN	610 FT
CL2 LINE	COVERED	5/8 IN	610 FT	SOUNDER		1 IN	595 FT

CREW: S. BESSON, B. ADAMS, D. BAHMER, L. RICE, M. HEALEY — TAG #: — ELEVATION:

REMARKS: ALL BRAND NEW — SUPERVISOR: D. MAYS

DATE RECIEVED BY DATA ENTRY: 07/20/99 — NAME: B.SEITZ

MICROFILMED
SEP 19 2001

UP ...L HOm. ert
RAPTOR WELL

PUMP DATA SHEET
Goulds Turbine 60 Hz

Selection file: (untitled)
Catalog: TURBO.MPC v 1.4.1

Curve: E8412CFPCO

Design Point: Flow: 1000 US gpm
Head: 776 ft

Pump: TURBINE - 1800 Size: 12CLC (13 stages)
Speed: 1770 rpm Dia: 8.6875 in

Limits: Temperature: — °F Sphere size: 0.73 in
Pressure: 340 psig Power: — bhp

Specific Speed: Ns: — Nss: 2800

Dimensions: Suction: 8 in Discharge: 8 in

Vertical Turbine: Bowl Dia: 11.75 in Max Lateral: 1 in
Thrust K Factor: 7.5

Motor: 300 hp Speed: 1800 Frame: 447T
NEMA Standard TEFC Enclosure
sized for Max Power on Design Curve

Field: Water Temperature: 60 °F
SG: 1
Viscosity: 1.122 cP
Vapor pressure: 0.2563 psia
Atm pressure: 14.7 psia

NPSHa: — ft

Piping: System: —
Suction: — in
Discharge: — in

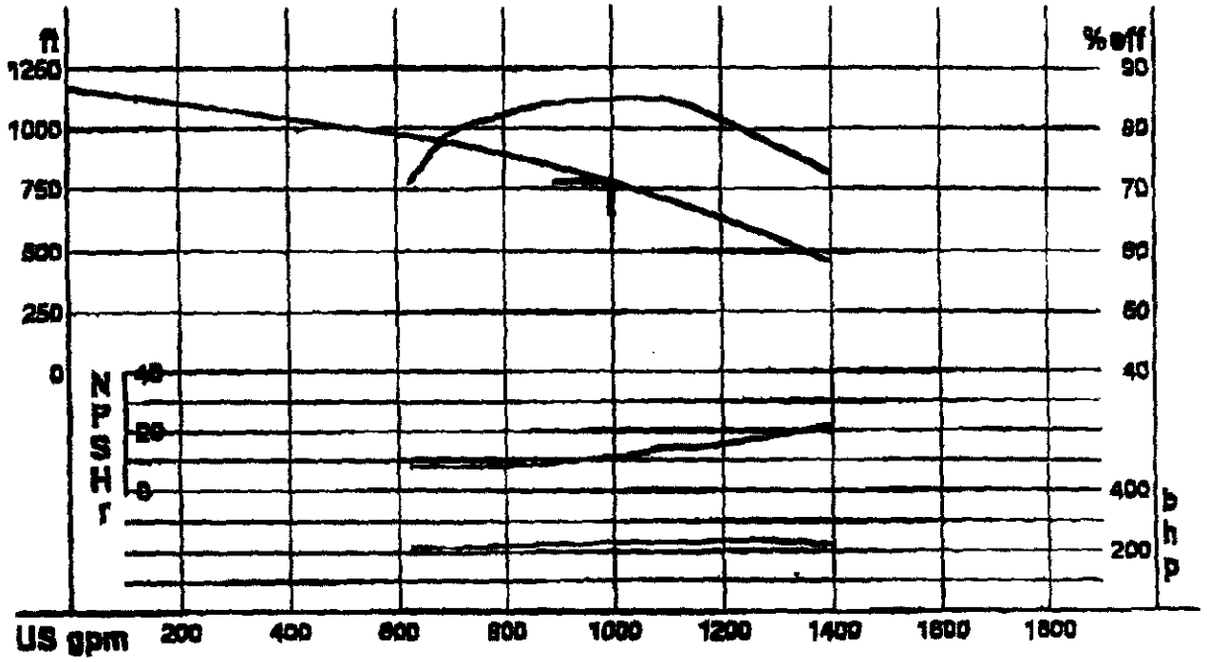
Raptor Well

10" Suct dia and 8" and 10" Disch dia also avail.

— Data Point —
Flow: 1000 US gpm
Head: 777 ft
Eff: 85%
Power: 231 bhp
NPSHr: 11.3 ft

— Design Curve —
Shutoff Head: 1189 ft
Pressure: 507 psig
Min Flow: - US gpm
BEP: 85.1% eff
@ 1041 US gpm
NOL Pwr: 235 bhp
@ 1282 US gpm

— Max Curve —
Max Pwr: 235 bhp
@ 1283 US gpm



— PERFORMANCE EVALUATION —

Flow US gpm	Speed rpm	Head ft	Pump %eff	Power bhp	NPSHr ft	Motor %eff	Motor hp	Hrs/yr	Cost /kW
1200	1770	690	81.5	234	15.4				
1000	1770	777	85	231	11.3				
800	1770	885	82.3	220	8.14				
600	Flow Rate is Out of Range for this Pump								
400	Flow Rate is Out of Range for this Pump								

MICROFILMED
SEP 13 2001

P.02
MICROFILMED
SEP 01 1999
Aug-28-01 04:07P

CYCLIX PROPOSAL NO	GOULDS ED NO	ENQUIRY NO	CUSTOMER PO	PO DATE	ITEM NO	ENGINEER
T60	412083		72247	4-28-99		Riverside, Inc, Parma, Idaho
PROJECT	SERVICE			RPM	TDH	EFF	BHP
Raptor Well				1000	736	84.7	780

METERS

TOTAL HEAD PER STAGE

FEET: 1170, 1040, 910, 780, 650, 520

90 · 80 · 70 · 60 · 50 · 40

8.69 · 8.31 · 7.94

85 · 86 · 85

CAPACITY

U.S. GPM: 0 · 200 · 400 · 600 · 800 · 1000 · 1200 · 1400 · 1600 · 1800

CU. METERS PER HOUR

HORSEPOWER

CURVE NO	E6412CFPC1
MODEL	12CLC
RPM	1770
EFFICIENCY CORRECTION	
STGS 1	3.0
STGS 2	2.0
STGS 3	0.5
STGS 4	0.0

PERF BASED ON STD MAT.'S

Impeller: CLOSED

Ns = 2268

K = 7.40 LBS/FT, 11.0 KG/M

K(Bal) =

GOULDS PUMPS

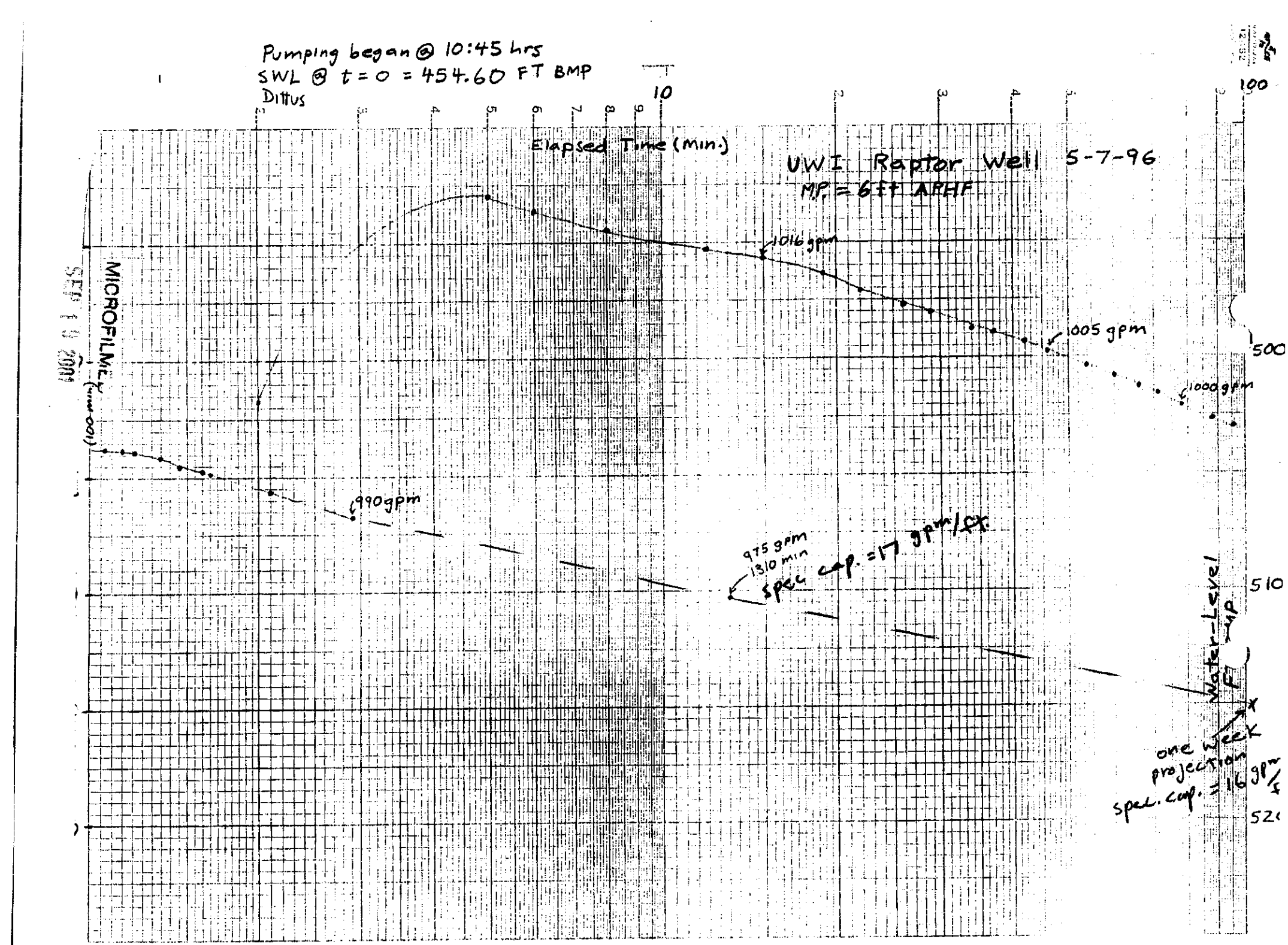
TURBINE DIVISION
LUBBOCK, TEXAS

CHARACTERISTICS BASED UPON PUMPING CLEAR, NON-AERATED WATER.

RATING POINT ONLY IS GUARANTEED. COLUMN LOSSES NOT INCLUDED

MODEL 12CLC
DATE SEP 1999

x:/tucb/curves/12clcb.dgn Aug. 18, 1999 11:54:33


Pumping began @ 10:45 hrs
SWL @ t = 0 = 454.60 FT BMP
Dittus
Elapsed Time (min.)
UWI Raptor Well 5-7-96
MP = 6 ft ARHF
1016 gpm
1005 gpm
1000 gpm
990 gpm
975 gpm
1310 min
spec cap. = 17 gpm/ft
Water-Level
MP
one projection
spec. cap. = 16 gpm/ft
MICROFILMED
SEP 19 2000
100
500
510
520

520 510 51

United Water

SHEET _____ OF _____

BY Allred DATE 5-7-96 PROJECT _____ CONTACT _____

DESCRIPTION Raptor Aquifer Test IWO# _____

Befor pumpon - Total Production 136653 x1000
Length of airline → same as setting??

SWL = 454.50 ft BMP @ 9:55 hrs
SWL = 454.60 ft BMP @ 10:44 pump setting = 577'

P.W.L.	Time	E.T.	COMMENTS
	10:45	0 min	Pump on @ 10:45 hrs 5-7-96 64 sec till water hits flush line (surface) Q = 1028 GPM Water in flush line Water into system
501.75	10:47	2 min	
	10:48	3	
493.00	10:50	5	
494.13	10:51	6	Q = 1023 GPM * GPM Values Taken from digital Gage on discharge line
494.50	10:53	8	
495.35	10:57	12	
495.70	11:00	15	Q = 1016 GPM
496.40	11:04	19	
497.05	11:07	22	Q = 1014 GPM airline = 498.00 ft
497.65	11:11	26	
498.00	11:14	29	Q = 1010 GPM
498.71	11:19	34	
498.95	11:22	37	
499.40	11:27	42	
499.70	11:31	46	airline = 499.5 Q = 1005 GPM
	11:38	53	Ed called
500.38	11:39	54	
500.92	11:45	60	Q = 1003 GPM airline = 501 ft
501.38	11:51	66	
501.55	11:56	71	
502.16	12:03	78	Q = 1000 GPM airline = 502
502.59	12:13	88	
503.00	12:21	96	Q = 997 GPM airline = 503
503.40	12:31	106	Q = 999 GPM " = 503
503.85	12:40	115	
503.92	12:46	121	Q = 994 GPM
504.15	13:00	135	Q = 989 GPM airline = 504
504.56	13:10	145	
504.77	13:25	160	
504.80	13:30	165	Q = 990 GPM Total Production 136819
			Leave Site - to Flanagan Valley (Talk w/ Ed)
505.61		210	Q = 988 GPM
506.80	15:35	290	Q = 990 GPM airline = 506.5
			Total Production @ 15:56 hrs

MICROFILMED
SEP 19 2001

Well Setting Data

DATE INSTALLED: 03/12/97 — SETTING TO TOP OF BOWLS: 650 FT

LOCATION: TEN MILE #113 — STATIC: 595 FT Jan-98 — OR. STATIC: 495 FT Jul-96

PUMP

MANUFACTURER	GOULDS	SERIAL NO.							
COLUMN	NUMBER	64	SIZE	10IN	LENGHT	10FT	TAPERED Y/N	NO	
COLUMN	NUMBER	2	SIZE	10IN	LENGHT	10FT	TAPERED Y/N	NO	
NUMBER OF SHAFTS	64	SHAFT LENGTH	10FT	SIZE	2 3/16	THREADS	10		
NUMBER OF SHAFTS	1	SHAFT LENGTH	5FT	SIZE	2 3/16	THREADS	10		
TYPE	DWT								
SIZE/MODEL	11CHC	DISCH DIAMETER	10IN	IMP NUMBER					
NO. OF STAGES	13	IMP QUA	12	IMP DIAM	8.13	IMP TRIM	A		
RPM	1770	IMP QUA	1	IMP DIAM	7.23	IMP TRIM	C-D		
GPM	1000	LENGTH OF TAIL PIECE	5FT			TAPERED Y/N	YES		
TDH	710	LENGTH OF HEAD SHAI	59IN			SHAFT SIZE	1 15/16		
LENGTH OF MOTOR		GLAND SHAFT LENGTH	80IN			SHAFT SIZE	2 3/16		
CURVE NUMBER	E3141-1	LENGTH OF BOWLS	12FT 3IN						

MOTOR

MANUFACTURER	US MOTORS	EFFICIENCY	86%
SERIAL NO	6564-Z05Z060R057M5		
TYPE	DWT	VOLTS	460
MAKE		AMPS	330
MODEL	6564	PHASE	3
HP	300	CYCLES	60
UPPER BEARING	2-7228-M6	RPM	1775
LOWER BEARING	6219-J	FRAME	500GPH

AIR & AQUA LINES

AIR LINE		5/8IN	650FT	CHEM LINE		5/8IN	667FT 3IN
CL2 LINE	COVERED	5/8IN	667FT 3IN	SOUNDER		1IN	667FT 3IN

CREW: STEVE BESSON, D. MCCLUNG, J. BELCHER, M. STAUFER, B. BARRIATUA, S. FRISBEE

REMARKS

SUPERVISOR: D. MAYS

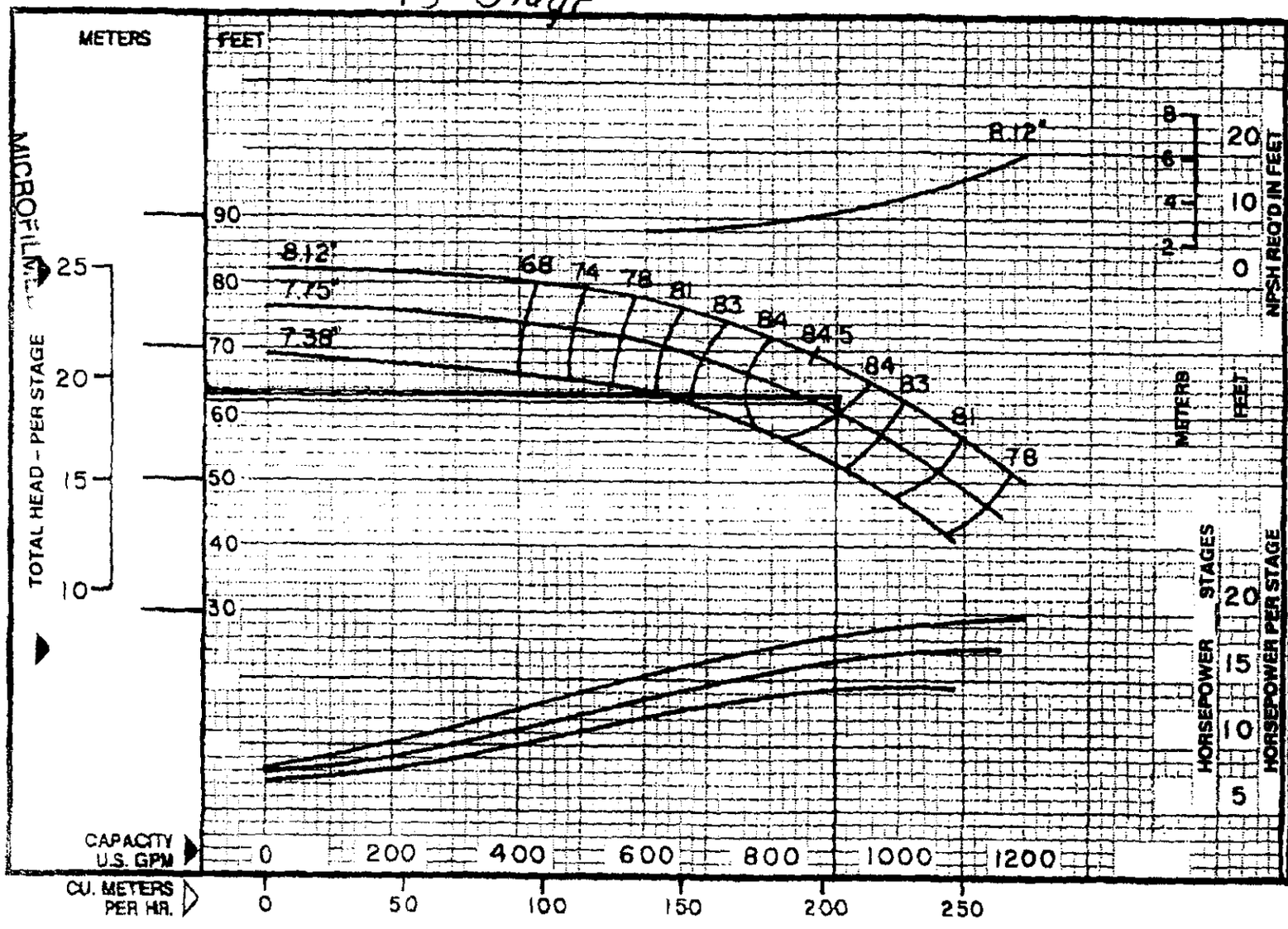
DATE RECIEVED BY DATA ENTRY: 03/27/97 — NAME: B. SEITZ

MICROFILMED
SEP 19 2001

GOULDS PROPOSAL NO.	GOULDS S.O. NO.	INQUIRY NO.	CUSTOMER P.O. NO.	P.O. DATE	ITEM NO.	CUSTOMER
01700						United Water 10 mile South

PROJECT	SERVICE	GPM CAPACITY	F.T. TDH	% EFFICIENCY	RPM
10 mile South		900	825	86%	1770

13 Stage



Curve No. E3141

Model: 11CHC

RPM: 1770

EFFICIENCY CORRECTION

STGS. 1	-1.5
STGS. 2	-1.0
STGS. 3	-0.5

PERF BASED ON STD. MTL'S

Impeller= CLOSED

N_S= 2168

K= 7.40 LBS/FT
11.0 KG/M

K (Bal.)=

GOULDS PUMPS
TURBINE DIVISION
LUBBOCK, TEXAS

Characteristics based upon pumping clear, non-aerated water. Rating point only is guaranteed. Column losses not included.

MODEL 11CHC

DATE April, 1994

SUPERCEDES February, 1

SEP 19 2001

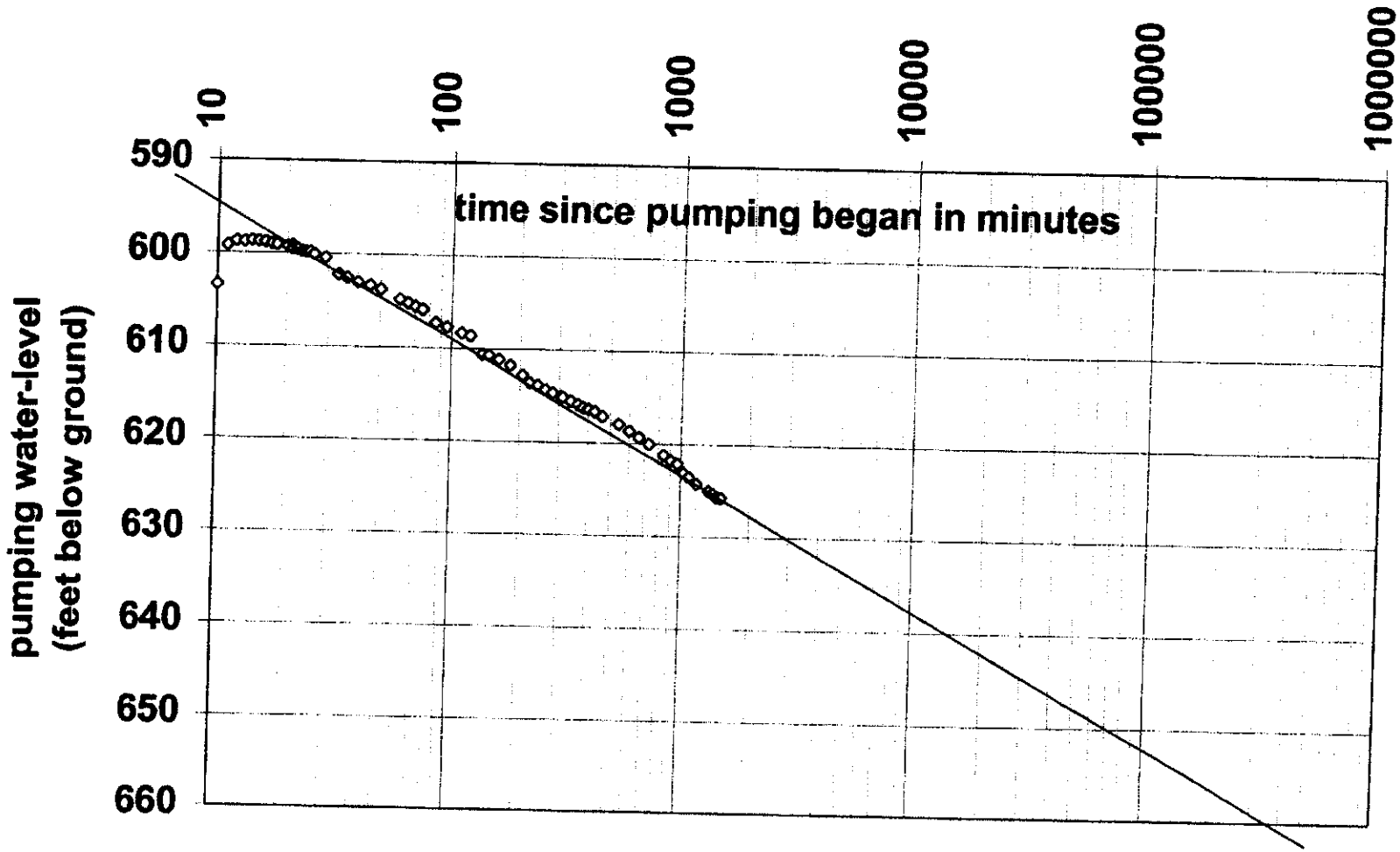
11CHC

MICROFILMED
SEP 19 2001

United Water Idaho Tenmile Well

Constant Discharge Test 9-24-96

1,550 GPM



WELL SETTING DATA

DATE INSTALLED: 04/15/98 — SETTING TO TOP OF BOWLS: 640 FT

LOCATION: PIONEER #139 — STATIC OR. STATIC: 510 FT Apr-98

PUMP

MANUFACTURER	INGERSOLL-DRESSER			SERIAL NO.			
NUMBER OF COLUMS	63	SIZE	10 IN	LENGHT	9 FT 11.25 IN	TAPERED Y/N	N
NUMBER OF COLUMS	2	SIZE	10 IN	LENGHT	4 FT 11.25 IN	TAPERED Y/N	N
NUMBER OF SHAFTS	63	SIZE	1 15/16	LENGHT	10 FT	THREADS	8 LH
NUMBER OF SHAFTS	1	SIZE	1 15/16	LENGHT	5 FT	THREADS	8 LH
NO. OF STAGES	7	IMP QUA	7	IMP DIAM	11.130	IMP TRIM	FULL
SIZE/MODEL	14JKH	IMP QUA		IMP DIAM		IMP TRIM	
TYPE	DWT			DISCH DIAMETER	10 IN	IMP NUMBER	
GPM	1200			LENGTH OF TAIL PIECE	7 FT	TAPERED Y/N	Y
RPM				HEAD SHAFT LENGTH		SHAFT SIZE	
TDH	780 FT			GLAND SHAFT LENGTH	69 IN	SHAFT SIZE	1 15/16 IN
LENGTH OF MOTOR				LENGTH OF BOWLS	8 FT	EFFICIENCY	
CURVE NUMBER							

MOTOR

MANUFACTURER	US (TITAN INVERTER DUTY MOTOR)		
SERIAL NO			
TYPE	DWT	VOLTS	460
MAKE	HUE-1	AMPS	346
MODEL	ID #BDS 97031941-001R-1	PHASE	3
HP	300	CYCLES	60
UPPER BEARING		RPM	1800
LOWER BEARING		FRAME	5006PH



BOWL HEAD PER STAGE

Ingersoll-Dresser Pump Company

PERFORMANCE

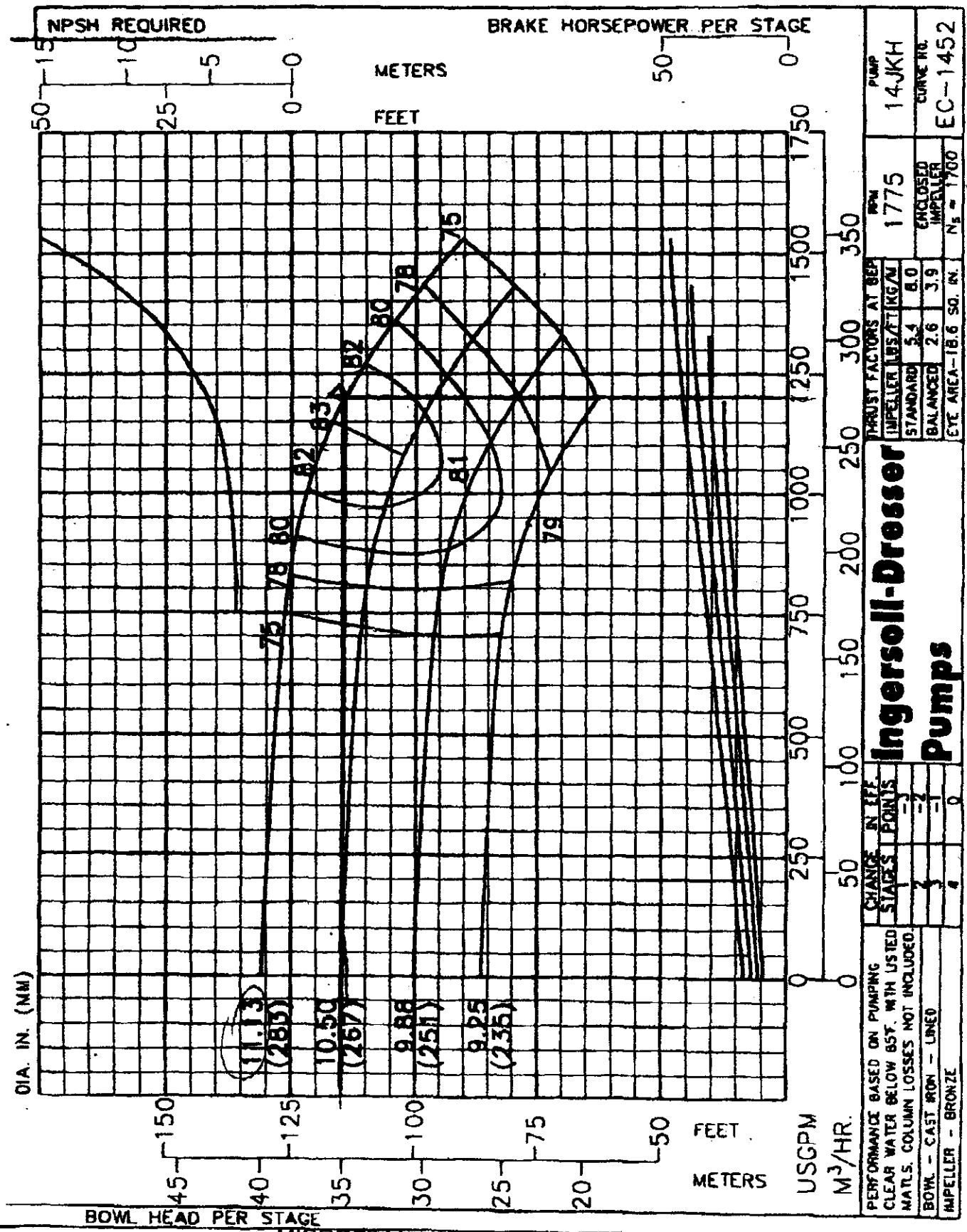
MICROFILMED
SEP 19 2001

Ingersoll-Dresser Pumps

VTP VERTICAL PUMPS

Sheet 520.62
December 1, 1993
New Sheet

~ 60 psi



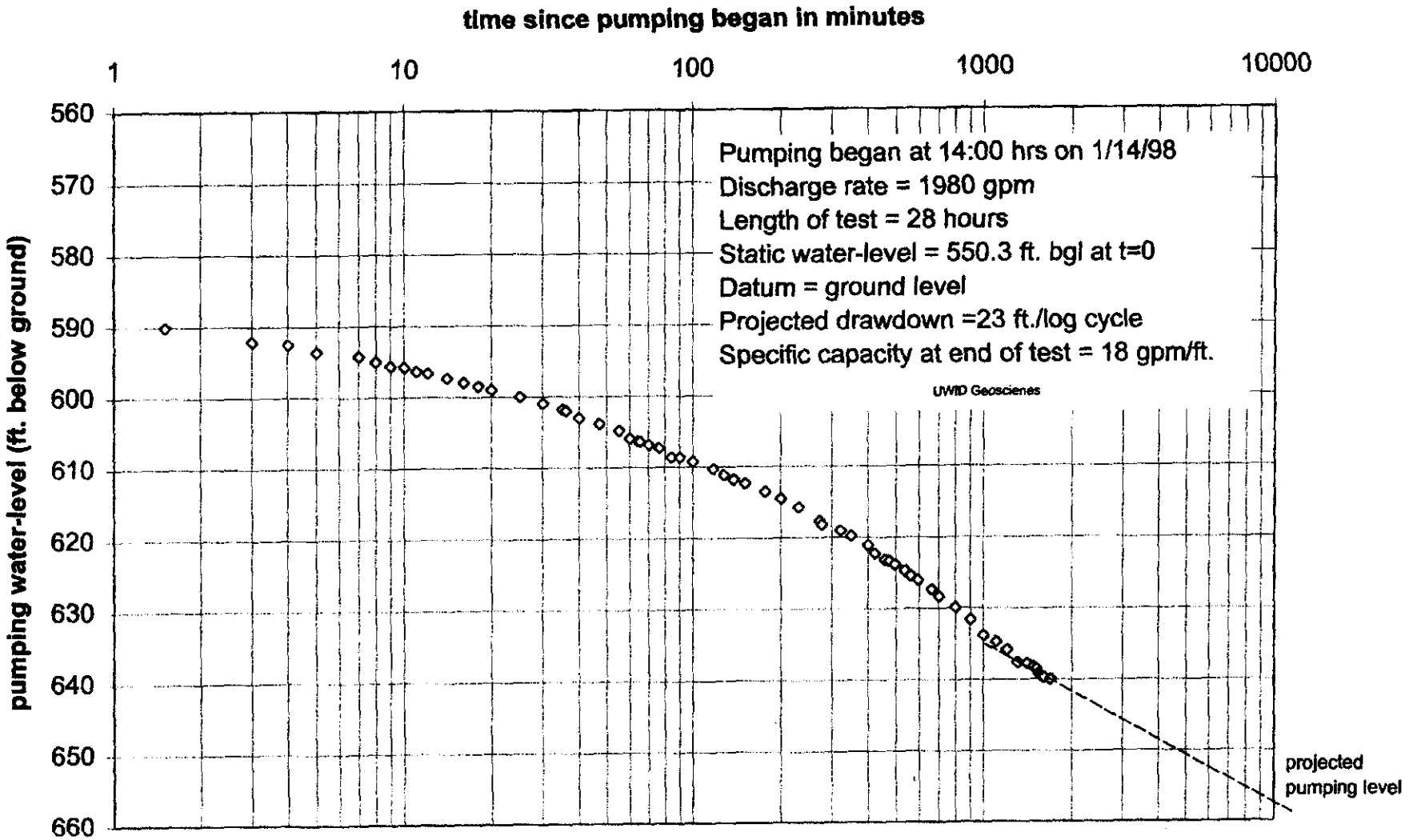
Pioneer

2.96 HP + 11 HP shaft loss - Trim one Imp.

© 1993 Ingersoll-Dresser Pump Company
Printed in U.S.A.

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SEP 19 2001

UWID Pioneer Well Constant Discharge Test



MICROFILMED
SEP 19 2001

United Water

SHEET _____ OF _____

BY Allred DATE 1-6-98 PROJECT _____ CONTACT _____

DESCRIPTION Pioneer Production Well - Pump Test IWO# _____

8" orifice - 10" discharge

10:03 hrs - on site
Roger / Ed (UWID) all on site
Shawn + (Riverside)

11:00 hrs Turn on until 1st discharge ~500gpm very Rusty w/ Ice from line
11:01 slowly turn down
11:02 Turn pump back up
11:03 discharge same as before
11:04 slowly turn RPM's down
11:09 back on - > RPMs
11:10 hr 19" on manometer ~ 1350gpm
11:13 hr " " " " Turn down RPMs
11:14 hr Q=0 discharge - off
H_2O dropping slowly down column
11:21 hr increase RPMs
11:22 Q = 800 gpm
11:25 Q = 1980 gpm - 40" on manometer Rusty color
shut down slowly
11:29 hr Turn up RPMs
11:30 hr Q = 800 gpm
11:33 43" on tube - 2000gpm
Rpms slowly off
11:36 > RPMs
11:38 Q = 2000gpm
11:45 Q = 2000gpm (43" on tube) much clearer water
Turn down

12:08 hr Turn up RPMs - Target of 1500gpm - constant
12:10 hr Q = 500 + increasing
12:11 hr increase RPM's ~1000gpm
11:12 hr Q = 1650 gpm - attempt to hold Temp = 76.5°/77°f
11:20 hr Q = 1600 gpm - crystal clear C_s = 247.
11:23 hr Q = 1600 gpm 26" on Tube
11:25 hr Q = 0 gpm RPMs down

12:43 hr Increase RPMs - hold Vac @ top of pump column - ground level + allow formation to recover to ~560 Then shut down + slam formation.

12:46 hr prepair to drop H_2O down column

12:53 hr - Increase RPMs in effort to flush well
12:55 hr - Slightly muddy Q = 400 gpm
12:58 hr Still muddy Q = 1400 gpm - 5-6 cm^3 fine brown sand

MICROFILMED
SEP 19 2001

United Wate[illegible]

SHEET ____ OF ____

Pg 2

BY Allard/Dirras/Squires DATE 1-6-97 PROJECT ____ CONTACT ____

DESCRIPTION Pioneer Production Well - Pump Test IWO# ____

13:10 hr - prepare to discharge "muddy" water
13:12 hr - 44" on tube +2000gpm - trace sand - only slightly cloudy
13:16 hr - decrease RPMs & wait for recovery to SWL
13:22 hr - almost fully recovered to SWL - drop column down borehole
13:25 hr - increase RPM - target is 35" - 1850 gpm
13:30 hr - flushing @ 2100gpm - 47" on tube
decrease RPMs & hold W.L. @ ground

506.1 — broken shaft in pump column? —

Pleasant Valley Production Well - Pump is off
Qum = 645267.0 Kgal
1-6-98 @ 14:10 hrs SWL = 506.11 Ft BMP

MICROFILMED
SEP 19 2001

APPENDIX C

Magnetic flow-meter specifications, installation requirements, and serial numbers for flow-meters installed on United Water Idaho's Pleasant Valley, Raptor, Ten Mile, and Pioneer water supply well's discharge piping.

MICROFILM

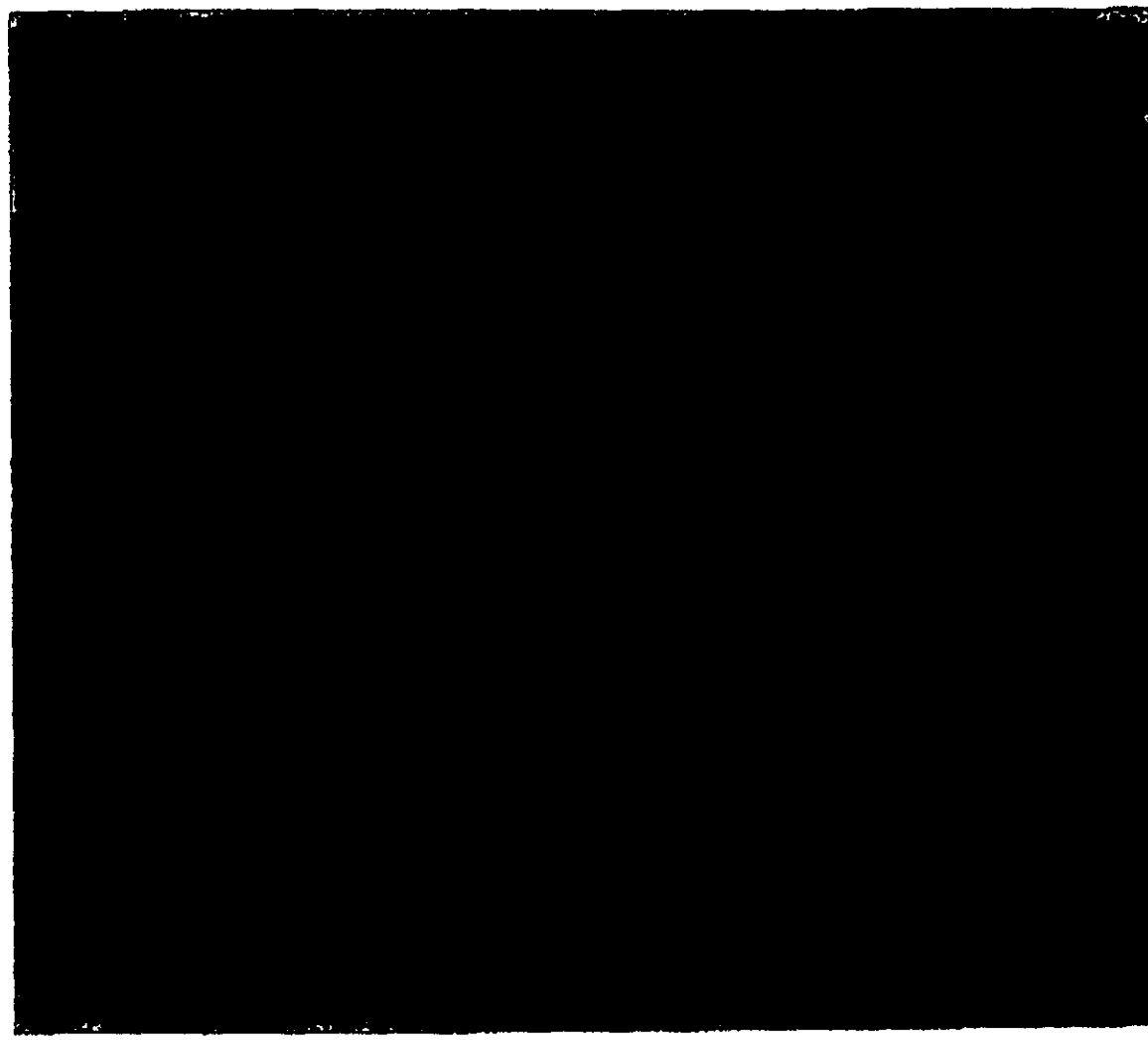
SEP 19 2001

BAILEY FISCHER PORTER

a unit of Elsag Bailey Process Automation

INSTRUCTION BULLETIN
MAGNETIC FLOWMETERS
10DX3011 Design Level A Rev. 3
Sizes ½ through 10 Inches

COPA-XO™, COPA-XM™ and MAG-X®
SERIES 3000 MAGNETIC FLOWMETER



PN 24564

MICROFILM

SEP 1 3 2001

1.0 INTRODUCTION

1.1 General

1.1.1 Description

The Fischer & Porter Series 3000 Magnetic Flowmeter is a compact, volumetric, liquid flow rate detector that uses as the process transducing method the characteristic of a conductive liquid to generate an induced voltage when flowing through a magnetic field. The amplitude of the voltage produced is directly proportional to the flow rate of the metered liquid.

Being a completely obstructionless metering instrument, the F&P Series 3000 Magnetic Flowmeter can be used to meter liquids without regard to heterogeneous consistency and is as independent of the tendency to plug or foul as the pipeline in which it is mounted. An inherent advantage of obstructionless construction is that pressure losses are reduced to levels occurring in equivalent lengths of equal diameter pipeline. This reduces or conserves pressure source requirements in new or existing hydraulic lines as compared to other metering methods. The compact size of the meter results in a light-weight unit which requires no additional support other than that used normally on pipe runs. Short laying lengths minimize the need for altering existing pipe runs to accommodate metering. A basic construction of corrosive resistant wetted parts and a variety of meter lining materials permit metering of most corrosive and reactant liquids.

Factors such as liquid viscosity and density require no compensation and have no effect on the measurement accuracy of the Magnetic Flowmeter. Metering limitations are confined to a minimum threshold of electrical conductivity inherent to the liquid being metered. The degree of liquid conductivity has no effect upon metering accuracy as long as it is greater than this minimum level. Liquid temperature is limited only to the extent that it may affect liquid conductivity and, like liquid pressure, to the extent that it can not exceed the meter material specification limits.

The associated electronics package is called the Signal Converter and may be either integrally or remotely mounted. Either an analog or a microprocessor signal converter may be used with the Series 3000 Magnetic Flowmeter. The Flowmeter without the electronic package is used with a remote mounted Signal Converter. A remotely mounted Signal Converter is recommended for any or all of the following conditions:

- if the summation of ambient and process temperature is greater than 262° F (110° C) for COPA-XM™ or 280° F (120° C) for COPA-XO™, the Signal Converter must be remotely mounted.
- vibrations above the specification given in Section 1.3

The Signal Converter also contains a magnet driver unit that is used to power the meter's magnet coils. The steady bipolar state magnetic field principle, referred to as the MAG-X® design concept, provides optimum zero point stability at an optimized drive frequency.

For information concerning the Signal Converter, refer to the Signal Converter Instruction Bulletin.

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SEP 19 2001

2.4 Mounting

2.4.1 Orientation

The F&P Series 3000 Magnetic Flowmeter may be installed in horizontal, vertical or sloping pipe runs. However, precautions must be taken to assure that the metering tube is filled at all times during measurement. A vertical installation, with the pipe line carrying liquid upwards assures a filled hydraulic line under low flow rate conditions and also minimizes wear on the meter lining by abrasive grit. Horizontal installations should be made with the meter in the lower section of a pipeline to assure a filled meter condition.

For horizontal or sloping installations the meter should be placed so that the electronic housing of the meter is on top. This will align the meter electrodes in a lateral plane. Positioning the meter in this way eliminates the possibility of entrained air acting as an electrode insulator.

The Magnetic Flowmeter must be oriented in accordance with the direction of process flow, as indicated by the FLOW arrow on the meter body. For accurate metering, a straight pipe run equivalent to a minimum of three straight pipe diameters are required upstream of the magmeter for elbows and tees, measured from the center of the meter (refer to Figure 2-7).

If a control valve is required, it is recommended that it be placed downstream of the meter. Upstream valves can create turbulence that result in air pockets and may affect the meter's accuracy or cause its output to be noisy. A minimum of ten pipe diameters of straight pipe are required upstream between the magmeter and a control valve or pump (refer to Figure 2-7).

2.4.2 Pipe Connections

The TEFLON and polyurethane lined meters have ANSI raised faced flanges rated as Class 150 or 300, as specified. The neoprene lined meters have ANSI full faced flanges rated as Class 150 or 300, as specified. Two flange gaskets are supplied per meter; the mounting studs and nuts are furnished by the user.

Flange nuts should be tightened in an alternate pattern (e.g., 1-3, 2-4) to produce equal pressure distribution around the flange face. Bolt torque should be limited to that which will produce a positive seal for the application.

Refer to Figure 2-6 for proper gasket locations and Figure 2-7 for recommended piping arrangement.

MICROFILMED
SEP 19 2001

UWI Hansen DB Report

Equipment Inventory Record

Report Date 04/25/00 11:28 AM **Submitted By**

Equipment

Id 11-MM094
Description METER (08 IN MAG)

Last Activity

Date
Code
O/H
Hours 0.00

Usage Data

Avg Monthly Hours 0.00
Total Hours 0.00

Associated Data

Equipment Type	MM	MAG METER		
Manufacturer	FP	FISHER PORTER		
Subunit of		**Warranty Expires**	**Expected Life**	0
Purchase Cost	$4238.00	**Purchase Date**	**Usage Unit**	H
Dep Value	$0.00			
Model #	SEE SPECIAL INSTRUCT			
Serial #	96W005756			

Facility

Facility	PLEASANT VAL	**Parcel**
Building		
Building Level		
Equip Location		
Area	C	COLUMBIA SERVICE LEVEL
Sub-area		
Location		

Miscellaneous Data

Special Instructions

MODEL NUMBER X3311SDE18P1B2BA1132X1AABC1

MICROFILMED
SEP 19 2001

UWI Hansen DB Report

Equipment Inventory Record

Report Date 04/25/00 11:32 AM **Submitted By**

Equipment

Id 11-MM173
Description METER (08 IN MAG)

Last Activity

Date
Code
O/H Hours 0.00

Usage Data

Avg Monthly Hours 0.00
Total Hours 0.00

Associated Data

Equipment Type	MM	MAG METER			
Manufacturer	FP	FISHER PORTER			
Subunit of		**Warranty Expires**		**Expected Life**	0
Purchase Cost	$4238.00	**Purchase Date**	01/07/1998	**Usage Unit**	H
Dep Value	$0.00				
Model #	SEE SPECIAL INSTRUCT				
Serial #	97W1036485				

Facility

Facility	PIONEER	**Parcel**	
Building			
Building Level			
Equip Location			
Area	C	COLUMBIA SERVICE LEVEL	
Sub-area			
Location			

Miscellaneous Data

Special Instructions

MODEL NUMBER 10DX3311SDE18P1B2BA1132X1AAAC1

MICROFILM...
SEP 19 2001

UWI Hansen DB Report

Equipment Inventory Record

Report Date 04/25/00 11:27 AM **Submitted By**

Equipment

Id 11-MM113
Description METER (08 IN MAG)

Last Activity

Date	**O/H**	
Code	**Hours**	0.00

Usage Data

Avg Monthly Hours	0.00
Total Hours	0.00

Associated Data

Equipment Type	MM	MAG METER		
Manufacturer	FP	FISHER PORTER		
Subunit of		**Warranty Expires**	**Expected Life**	0
Purchase Cost	$4238.00	**Purchase Date**	**Usage Unit**	H
Dep Value	$0.00			
Model #	SEE SPECIAL INSTRUCT			
Serial #	97W008103			

Facility

Facility	TEN MILE	**Parcel**	
Building			
Building Level			
Equip Location			
Area	C	COLUMBIA SERVICE LEVEL	
Sub-area			
Location			

Miscellaneous Data

Special Instructions

MODEL NUMBER DX3311SDE18P1B2BA1132X1AAAC1

MICROFILM

SEP 13 2001

APPENDIX D

State of Idaho Well Driller's Reports and United Water Idaho's as-built diagrams documenting the details of well construction for United Water Idaho's Pleasant Valley, Raptor, Ten Mile, and Pioneer water supply wells.

MICROFILMED
SEP 19 2001

orm 238-7
94

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Use Typewriter or Ball Point Pen

. DRILLING PERMIT NO. 63-95-C-0112-200
ther IDWR No. 103-12139

. OWNER:
ame United Water Idaho Inc.
ddress P.O. Box 7488
ity Boise State Id. Zip 83707

. LOCATION OF WELL by legal description:
ketch map location must agree with written location.

N / W / E / S

Twp. 2 North ☒ or South ☐
Rge. 2 East ☒ or West ☐
Sec. 21 ____ 1/4 NE 1/4 NW 1/4
Gov't Lot ____ County Ada

Address of Well Site 1/2 M.E. of Pleasant Valley Rd. City Boise
(Give at least name of road + Distance to Road or Landmark)

t. ____ Blk. ____ Sub. Name ____

. PROPOSED USE:
☐ Domestic ☒ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other ____

. TYPE OF WORK
☐ New Well ☐ Modify or Repair ☒ Replacement ☐ Abandonment

. DRILL METHOD
☐ Mud Rotary ☐ Air Rotary ☐ Cable ☐ Other Reverse Rotary

. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
Benonite Gr	0	100	22,500	Overburce
Sand weight.	100	450'	30 yards	Overburce
Cement grout	450	655'	16 yards	Pump in bottom

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) ____
Was drive shoe seal tested? Y ☐ N ☐ How? ____

. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
20"	+2	655'	.375	Steel	☒	☐	☒	☐
Rest on Back Sheets					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe ____ Length of Tailpipe ____

. PERFORATIONS/SCREENS
☐ Perforations Method ____
☒ Screens Screen Type Houston wire wrap

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
On	Back	Sheet				☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
484' ft. below ground Artesian pressure ____ lb.
Depth flow encountered 484' ft. Describe access port or control devices: 14" Pipe -

11. WELL TESTS:
☒ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
1500	53'	536'	20 hrs.

Water Temp. 80° Bottom hole temp. 79.5
Water Quality test or comments: Looks good TDS 194

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water Y	Water N
			On Back of Sheets		

RECEIVED
DEC 05 1995
WATER RESOURCES
WESTERN REGION

RECEIVED
DEC 07 1995
Department of Water Resources

Completed Depth 916' (Measurable)
Date: Started 6-16-95 Completed 12-4-95

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

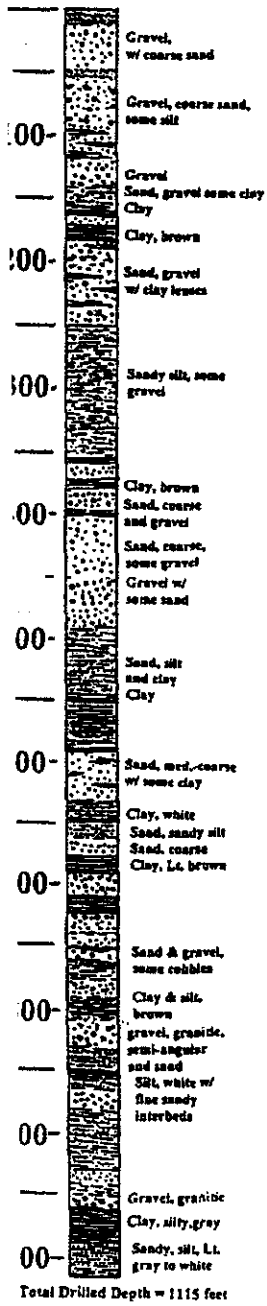
Firm Name Riverside Inc. Firm No. 333
Firm Official Gary Daughtry Date 11-30-95
and
Supervisor or Operator Dave Clemens Date 11-30-95
(Sign once if Firm Official & Operator)

UNITED WATER IDAHO
PLEASANT VALLEY WELL

T2N, R2E, NW¼, NE¼,NW¼, Sec. 21
Completed 8-17-95

LITHOLOGIC LOG

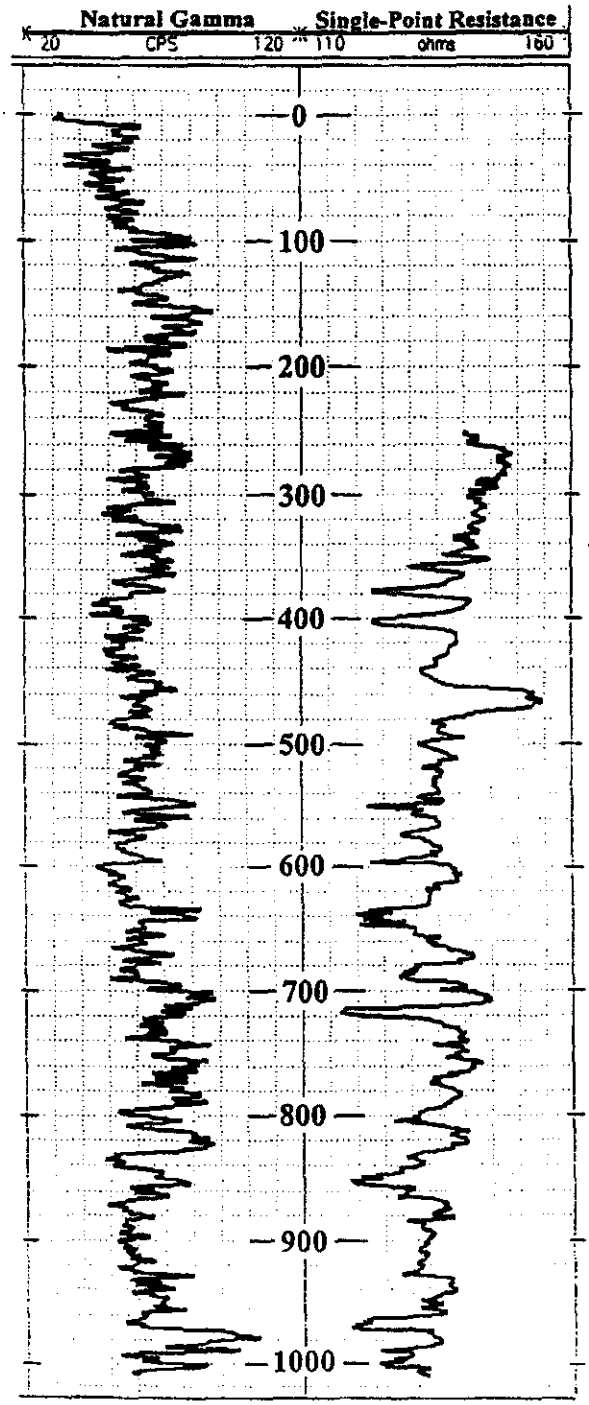
ased on driller's cuttings and geophysics



Total Drilled Depth = 1115 feet

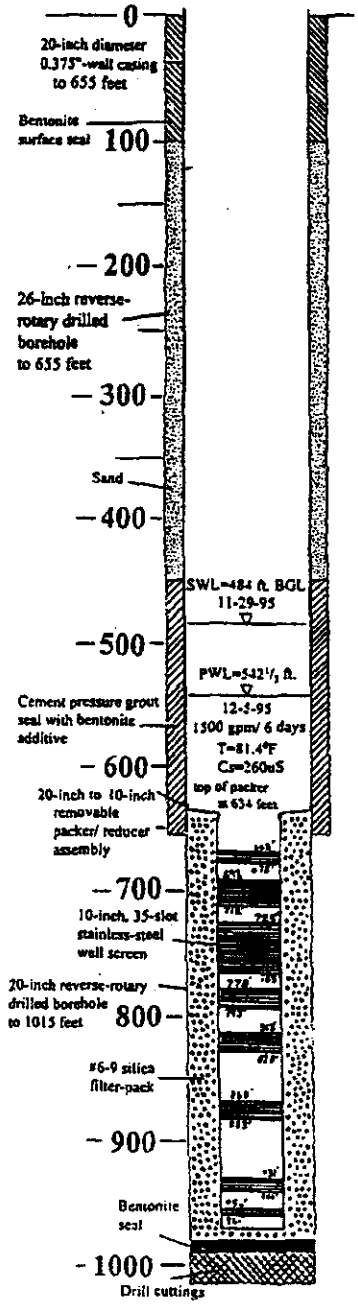
GEOPHYSICAL LOGS

8-2-95



Bottom Hole Temperature = 79.5°F

WELL CONSTRUCTION



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JAN 11 1994
Department of Water Resources

Rev. 1992

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE TYPEWRITER OR BALL POINT 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

Raptor Well

Name BOISE WATER CORP.

Address 8248 W VICTORY RD 83709 (Box 7488)

Drilling Permit No. 63-93-W-0920-000

Water Right Permit No. 63-12043

2. NATURE OF WORK

- [X] New well
- [ ] Deepened
- [ ] Replacement
- [ ] Well diameter increase
- [ ] Modification
- [ ] Abandoned (describe abandonment or modification procedures such as liners, screen, materials, plug depths, etc. in lithologic log, section 9.)

3. PROPOSED USE

- [ ] Domestic
- [ ] Irrigation
- [ ] Monitor
- [ ] Industrial
- [ ] Stock
- [ ] Waste Disposal or Injection
- [X] Other municipal (specify type)

4. METHOD DRILLED

- [ ] Rotary
- [ ] Air
- [ ] Auger
- [ ] Reverse rotary
- [X] Cable
- [ ] Mud
- [ ] Other _____ (backhoe, hydraulic, etc.)

5. WELL CONSTRUCTION

Casing schedule: [X] Steel [ ] Concrete [ ] Other _____

Thickness	Diameter	From	To
.250 inches	20 inches	+ 2 feet	659" feet
.375 inches	18 inches	3 feet	635' feet
_____ inches	_____ inches	_____ feet	_____ feet

Was casing drive shoe used? [X] Yes [ ] No

Was a packer or seal used? [X] 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? [X] Yes [ ] No

Manufacturer Johnson Type stainless

Top Packer or Headpipe 621

Bottom of Tailpipe 865

Diameter 10 Slot size 35 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

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Surface seal depth 90 Material used in seal: [ ] Cement grout [X] Bentonite [ ] Puddling clay

Sealing procedure used: [X] Slurry pit [X] Temp. surface casing [X] Overbore to seal depth

7. WATER LEVEL

Static water level 445 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

[X] Pump [ ] Bailer [ ] Air [ ] Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
see Boise Water		

9. LITHOLOGIC LOG

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
20	0	1	clay topsoil		X
	1	5	gravel hardpan		X
	5	85	cemented sand & gravel		X
18	85	200	lightly cemented sand & gravel		X
	200	265	sand & gravel		X
	265	435	lightly cemented sand & gravel		X
	435	465	sandy clay, clay		X
	465	535	sand & pea gravel, lightly cemented		
	535	565	sandy clay & cemented sand		X
	565	615	sand & gravel		X
	615	620	sandy clay		X
	620	640	sticky brown clay		X
	640	665	sand & gravel		
	665	710	sandy clay with sand streaks		
	710	730	clay		
	730	745	sandy clay & clay		
	745	750	clay		
	750	765	muddy sand		
	765	840	cemented sand		
	840	865	sand		
			10" X .250 liner		
			packer-12" pipe 5' long		
10"	621	643	headpipe		
	643	663	screen		
	663	671	pipe		
	671	686	screen		
	686	725	pipe		
	725	730	screen		
	730	755	pipe		
	755	775	screen		
	775	790	pipe		
	790	800	screen		
	800	811	pipe		
	811	821	screen		

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☒ New well ☐ Deepened ☐ Replacement
☐ Well diameter increase ☐ Modification
☐ Abandoned (describe abandonment or mo ation procedures such as liners, screen, materials, plug depths, etc. in lithologic log, section 9.)

☒ Pump ☐ Bailer ☐ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
see Boise Water		

3. PROPOSED USE

☐ Domestic ☐ Irrigation ☐ Monitor
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☒ Other municipal (specify type)

4. METHOD DRILLED

☐ Rotary ☐ Air ☐ Auger ☐ Reverse rotary
☒ Cable ☐ Mud ☐ Other _____ (backhoe, hydraulic, etc.)

5. WELL CONSTRUCTION

Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____

Thickness	Diameter	From	To
.250 inches	20 inches	+ 2 feet	65'9" feet
.375 inches	18 inches	3 feet	635' 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 Johnson Type stainless
Top Packer or Headpipe 621
Bottom of Tailpipe 865

Diameter 10 Slot size 35 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 90 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 _____

9. LITHOLOGIC LOG

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
20	0	1	clay topsoil		X
	1	5	gravel hardpan		X
	5	85	cemented sand & gravel		X
18	85	200	lightly cemented sand & gravel		X
	200	265	sand & gravel		X
	265	435	lightly cemented sand & gravel		X
	435	465	sandy clay, clay		X
	465	535	sand & pea gravel, lightly cemented		
	535	565	sandy clay & cemented sand		X
	565	615	sand & gravel		X
	615	620	sandy clay		X
	620	640	sticky brown clay		X
	640	665	sand & gravel		
	665	710	sandy clay with sand streaks		
	710	730	clay		
	730	745	sandy clay & clay		
	745	750	clay		
	750	765	muddy sand		
	765	840	cemented sand		
	840	865	sand		
			10" X .250 liner		
			packer-12" pipe 5' long		
10"	621	643	headpipe		
	643	663	screen		
	663	671	pipe		
	671	686	screen		
	686	725	pipe		
	725	730	screen		
	730	755	pipe		
	755	775	screen		
	775	790	pipe		
	790	800	screen		
	800	811	pipe		
	811	821	screen		
	821	838	pipe		
	838	858	screen		
	858	865	tailpipe-plate on end		

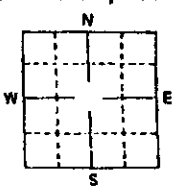
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10. Work started 9/28/93 finished 12/93

LOCATION OF WELL

Raptor Well

Sketch map location must agree with written location.



Subdivision Name _____
Lot No. _____ Block No. _____
County Ada
Address of Well Site Flying Hawk Rd Boise
(give at least name of road)
N/W ¼ N/W ¼ Sec. 17 T. 2 N ☒ or S ☐
R. 2 E ☒ or W ☐

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SEP 13 2001

11. DRILLER'S CERTIFICATION

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

Firm Name STEVENS & SONS Firm No. 153
Address 3709 Hawthorne Dr Date 12/12/93
Signed by Drilling Supervisor _____
and
(Operator) Ron Stevens
(If different than the Drilling Supervisor)

Form 238-7
7/94

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Use Typewriter or Ball Point Pen

DRILLING PERMIT NO. 63-95-C-0113 200
Other IDWR No. 63-12138

2. OWNER:
Name United Water Idaho
Address Box 7488
City Boise State ID Zip 83707

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

N / W / E / S

Twp. 2 North [X] or South [ ]
Rge. 2 East [X] or West [ ]
Sec. 17, 10 acre 1/4 N/E, 40 acre 1/4 N/E, 160 acre 1/4
Gov't Lot ____ County Ada

Address of Well Site ¼ mile West of Pleasant Valley Rd City Boise
(Give at least name of road + Distance to Road or Landmark)

Lt. ____ Blk. ____ Sub. Name Ten Mile Well

4. PROPOSED USE:
[ ] Domestic [X] Municipal [ ] Monitor [ ] Irrigation
[ ] Thermal [ ] Injection [ ] Other ____

5. TYPE OF WORK
[X] New Well [ ] Modify or Repair [X] Replacement [ ] Abandonment

6. DRILL METHOD
[ ] Mud Rotary [ ] Air Rotary [X] Cable [ ] Other ____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
bentonite	0	400+	8300#	grout pumped
6-9 Colorado sand				
	680	840	52,200	poured

Was drive shoe used? Y[X] N[ ]
Was drive shoe seal tested? Y[X] N[ ] How? drawdown

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
24"	6"	67'	250	steel	[X]	[ ]	[X]	[ ]
20"	2'6"	700'	375	steel	[X]	[ ]	[X]	[ ]
					[ ]	[ ]	[ ]	[ ]

Length of Headpipe 25' Length of Tailpipe 15'

9. PERFORATIONS/SCREENS
[ ] Perforations Method ____
[X] Screens Screen Type Johnson stainless 304 vee wire

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
705	826'10"	.40		14"		[ ]	[X]
						[ ]	[ ]
						[ ]	[ ]

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
495 ft. below ground Artesian pressure ____ lb.
Depth flow encountered ____ ft. Describe access port or control devices 3" plug in 1" well

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SEP 1 3 1996

11. WELL TESTS:
[ ] Pump [ ] Bailer [ ] Air [ ] Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
	NO TEST TO DATE		

Water Temp. ____ Bottom hole temp. ____
Water Quality test or comments: ____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water Y	Water N
24	0	19	brown clay & hardpan		X
	19	103	sand, gravel, boulders		X
	103	200	sand & gravel		X
	200	340	cemented sand & gravel		X
20	340	440	sandy brown clay & clay		X
	440	455	sand & gravel		X
	455	465	brown sand		X
	465	491	brown sand & pea gravel		X
	491	510	brown clay		X
	510	520	brown sand		X
	520	590	sand & gravel	X	
	590	605	cemented sand & gravel		X
	605	615	sticky brown clay		X
	615	625	cemented sand with thin clay		X
	625	635	sand & gravel	X	
	635	649	tan clay		X
	649	659	gravel	X	
	659	662	sandy clay		X
	662	685	sand & gravel	X	
	685	695	sandy clay		X
	695	700	brown clay		X
	700	705	blue clay		X
	705	840	sand gravel with clay streaks	X	
			sand gravel with clay streaks	X	
	840	893	cemented sand & clay		X
	893	904	blue clay		X

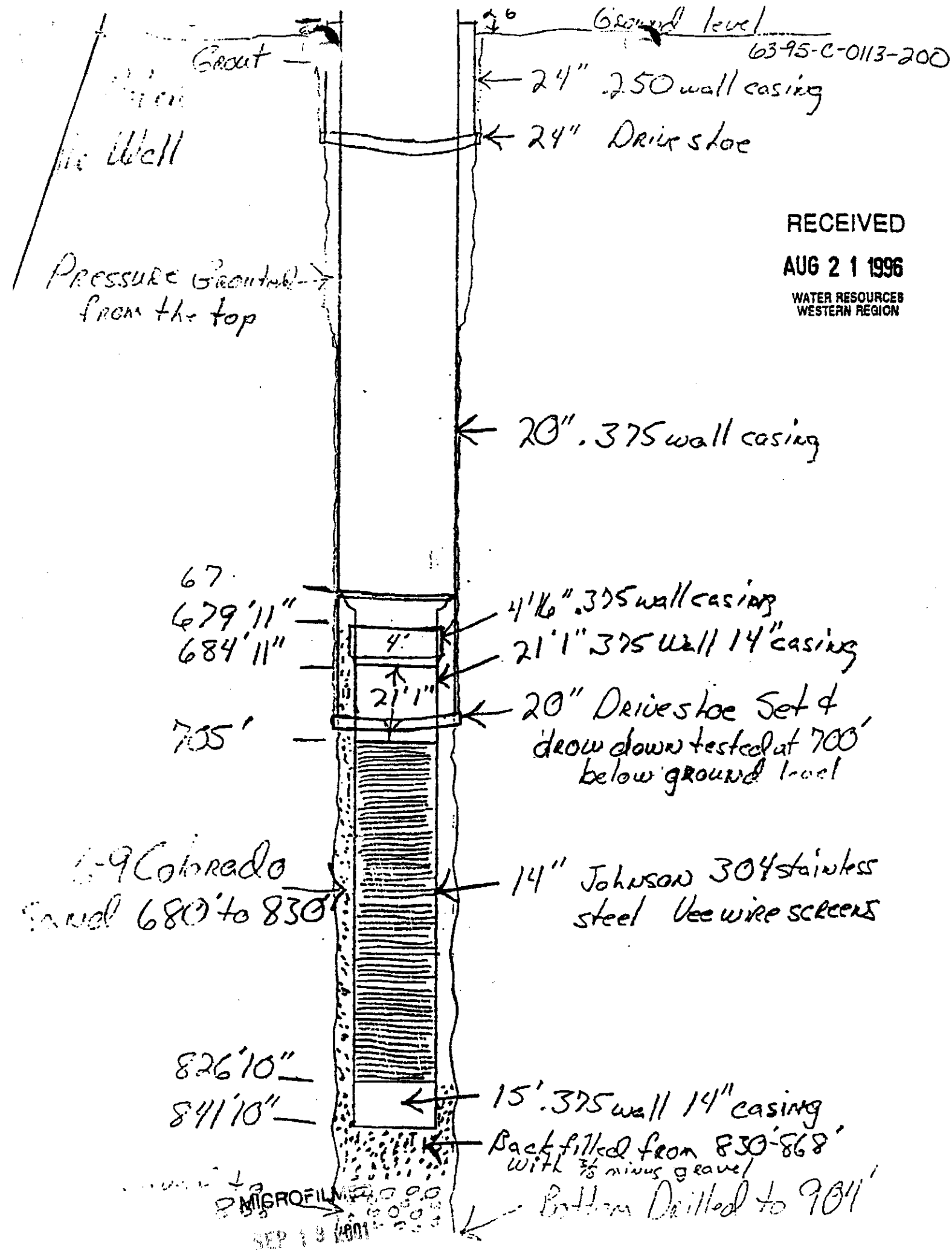
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Completed Depth 842' (Measurable)
Date: Started 3/4/96 Completed 7/22/96

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

Firm Name Stevens & Sons Firm No. 153
Firm Official ____ Date 8/6/96
and
Supervisor or Operator Ron Stevens Date ____

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Ground level
6395-C-0113-200
Grout
24" .250 wall casing
24" Drive shoe
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WESTERN REGION
Pressure Grouted from the top
20" .375 wall casing
679'11"
684'11"
4'
21'1"
705'
4'1/6" .375 wall casing
21'1" 375 wall 14" casing
20" Drive shoe Set & drow down tested at 700' below ground level
1-9 Colorado Sand 680' to 830'
14" Johnson 304 stainless steel Vee wire screens
826'10"
841'10"
15' .375 wall 14" casing
Backfilled from 830'-868' with 3/8 minus gravel
Bottom Drilled to 904'
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Form 238-7
7/94

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

Use Typewriter or Ball Point Pen

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APR 14 1998

Pioneer Well

1. DRILLING PERMIT NO. 63-97-W0167.000
Other IDWR No.

2. OWNER:
Name United Water Idaho Inc.
Address P.O. Box 7488
City Boise State Id. Zip 83707

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

N / W / E / S

Twp. 3 North ☒ or South ☐
Rge. 2 East ☒ or West ☐
Sec. 22 NE 1/4 (10 acres) NW 1/4 (40 acres) NE 1/4 (160 acres)
Gov't Lot ____ County Ada

Address of Well Site Pleasant Valley Rd to Annex
(Give at least name of road + Distance to Road or Landmark)
City Boise

Lt. ____ Blk. ____ Sub. Name ____

4. PROPOSED USE:
☑ Domestic ☒ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other ____

5. TYPE OF WORK
☒ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD
☐ Mud Rotary ☐ Air Rotary ☐ Cable ☐ Other Reverse Rotary

7. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
Bentonite ⅜"	0	681	115000#	overbore
#8 #12 Sand	690	930	33000#	overbore

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) ____
Was drive shoe seal tested? Y ☐ N ☒ How? ____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
18"	+2	681	.375	Steel	☒	☐	☒	☐
10"	665'	691'	.365	Steel	☒	☐	☒	☐
10"	701'	738'	.365	Steel	☒	☐	☒	☐

Length of Headpipe 26' Length of Tailpipe 10'

9. PERFORATIONS/SCREENS
☐ Perforations Method ____
☒ Screens Screen Type Wire wrap

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
Drawing attached				10"		☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
510 ft. below ground Artesian pressure ____ lb.
Depth flow encountered ____ ft. Describe access port or control devices: 2" MICROFILMED

11. WELL TESTS: UNITED WATER
☑ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
2000		600'	8 hrs

Water Temp. 77½°F Bottom hole temp. ____
Water Quality test or comments: ____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

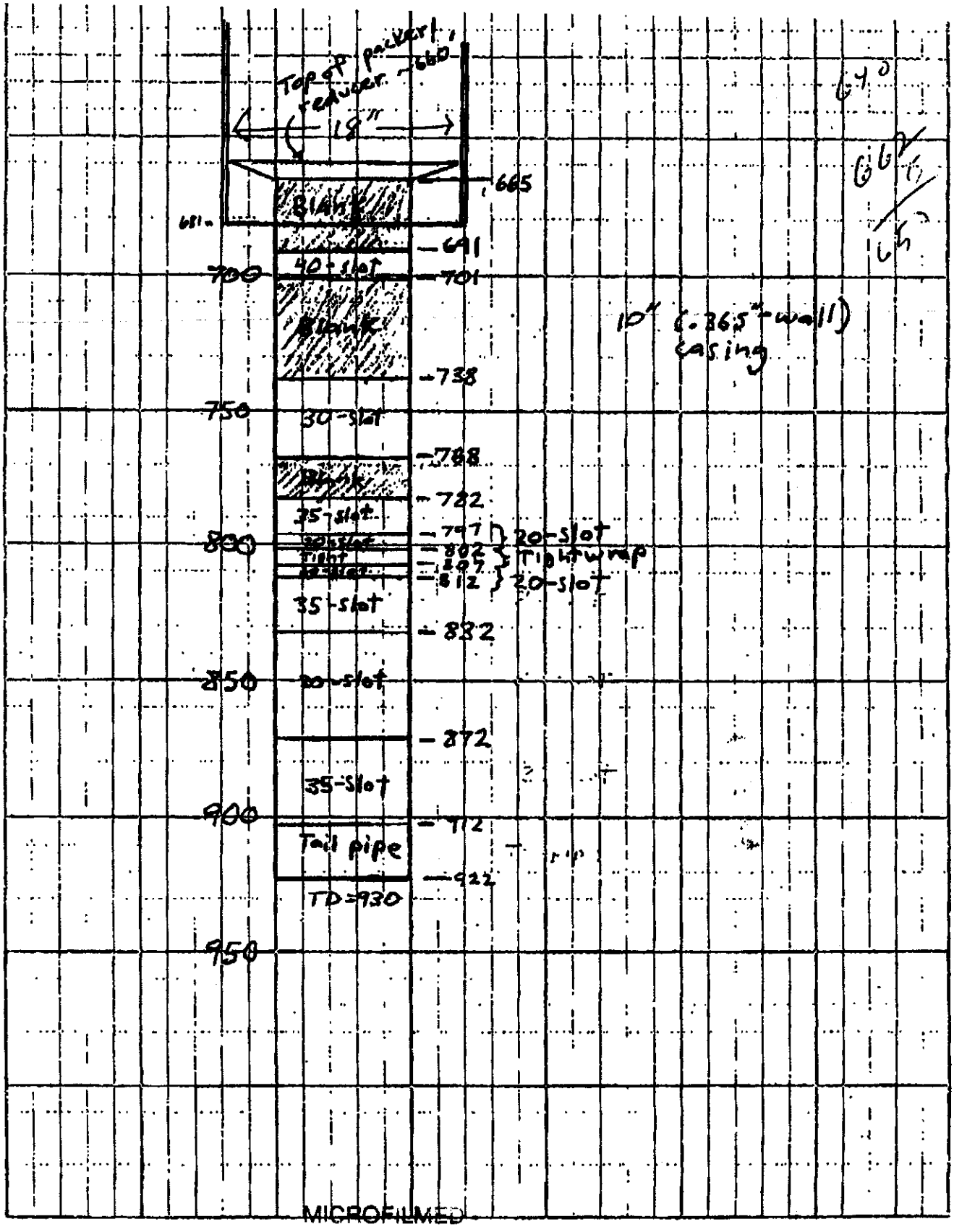
Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water Y	Water N
30"	0	9'	Topsoil		
	9'	220	Gravels & Sands & lts clay		
	220	239	Brn Sand & Clay with gravel		
	239	390	Broken rock sand & Gravel		
	390	405	Brn Sticky Clay		
	405	549	Broken rock, sand & gravel		
	549	609	Brn Clay & lts gravel		
	609	660	Fine white Sand & Clay		
	660	688	Med to coarse sand		
	688	696	Brn Clay		
18"	696	922	Sands & gravels & lts clay		
	922	930	Brn Clay		X

Completed Depth 922' (Measurable)
Date: Started 11/07/97 Completed 3/18/98

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

Firm Name Riverside Inc Firm No. 333
Firm Official ____ Date ____
and
Supervisor or Operator [signature] Date 4/18/98
(Sign once if Firm Official & Operator)

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MICROFILMED
SEP 19 2001

UWID Pioneer Well

N½ NW¼ NE¼, Sec. 22, T2N, R2E

well construction
completed 12/22/97 by Riverside Inc.
(reverse-rotary method)

Depth
(feet below
ground)

0
100
200
300
400
500
600
700
800
900

SCALE:
Vertical: 1" = 100 ft.
Horiz.: 0.1" = 2 in.

As Built Well Construction
verified by UWID Geosciences
camera survey 1/8/98

30-in reverse-rotary drilled hole to 680 ft. (initially drilled w/ 18" bit and then reamed)

20-in. (0.375"-wall) casing from +1½ ft. to 681 ft. with centralizers every 80-ft.

SWL=550'
1-14-98

"Teague" ⅜"-chip bentonite annular seal poured from surface and tagged to confirm placement (56 yards³ total)

PWL=640' 1-15-98
1980 gpm/28 hours

(clay bed
678'-684')

658'8" 20"-to-10" packer (see Detail B)

680'

18-in. drilled hole to 927 ft.

10-in. diameter "Johnson" stainless steel screens and 0.365"-wall casing (see Detail A)

"CSSI" #8-12 graded filter-pack (11 yards³) tagged during installation to confirm placement

Centralizers on tailpipe, and blanks

Detail A
Screen Settings

SCALE:
Vertical: 1" = 50 ft.
Horiz.: 0.1" = 1 in.

Headpipe	
685'9"	
40-slot	
696'9"	
Blank	
733'7"	
30-slot	
764'8"	
Blank	
777'8"	
35-slot	
794'1"	
20-slot	
799'7"	
Tight-wrap	
805'1"	
20-slot	
810'6"	
35-slot	
831'0"	
30-slot	
871'8"	
35-slot	
912'1"	
Tailpipe	
922'0"	

Screen slot-size/setting based on UWID Geoscience sieve analysis of drill cuttings and geophysical logging

Detail B
Removable 20"-to-10" packer and Receiver

18½"

658'8" top of packer

Neoprene Figure-K seal

Bell reducer

Packer

Centralizers

10-in. (0.3125"-wall) casing

Machined chamfer to seat into receiver

663'8" bottom of packer

4¼"

663' top of receiver

14-in. O.D. funnel/ guide (0.250"-wall)

Receiver

11¾-in. O.D. coupler w/ internal chamfer welded to top of 10-in. (0.365"-wall) casing

Centralizers (4) (0.250"-plate)

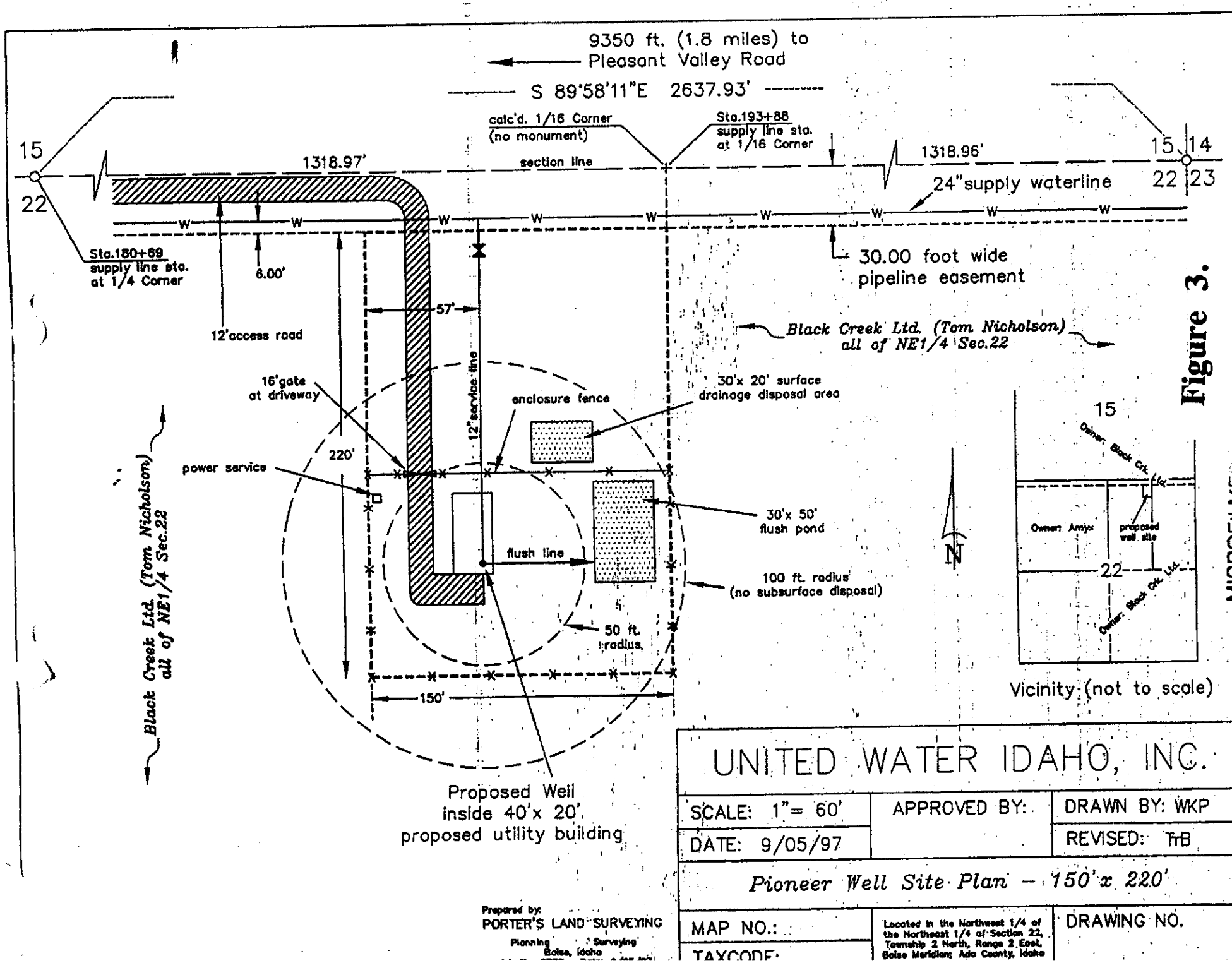
1¼-in. diameter lift tubes w/ capped tops

head pipe

SCALE:
Vertical: 1" = 2 ft.
Horiz.: 0.1" = 2 in.

MICROFILMED
SEP 19 2001

UWID Geosciences
1/98



MICROFILMED
SEP 19 2001

United Water

United Water Idaho
8248 West Victory Road
PO Box 7488
Boise, ID 83707-1488
telephone 208-362-1300
facsimile 208-362-3858

February 16, 1996

John Chapman
Micron
2805 E Columbia Rd, MS 602
Boise, ID 83707-0006

Dear John:

On the morning of February 15, 1996, United Water Idaho put the 3.0 million gallon Columbia Reservoir on-line for the first time since its construction. Prior to putting it on-line, coliform bacteria, TOC, and VOC analyses were run on the water in the reservoir. Results from the coliform and VOC samples indicate the water meets all state and federal drinking water regulations and is safe to enter the distribution system. The TOC analyses, run at your request, indicate no significant difference exists between the water entering versus leaving the reservoir.

We hope the above information satisfies your fire insurance requirements. Please feel free to call if you need any additional information (362-7371).

Sincerely yours,

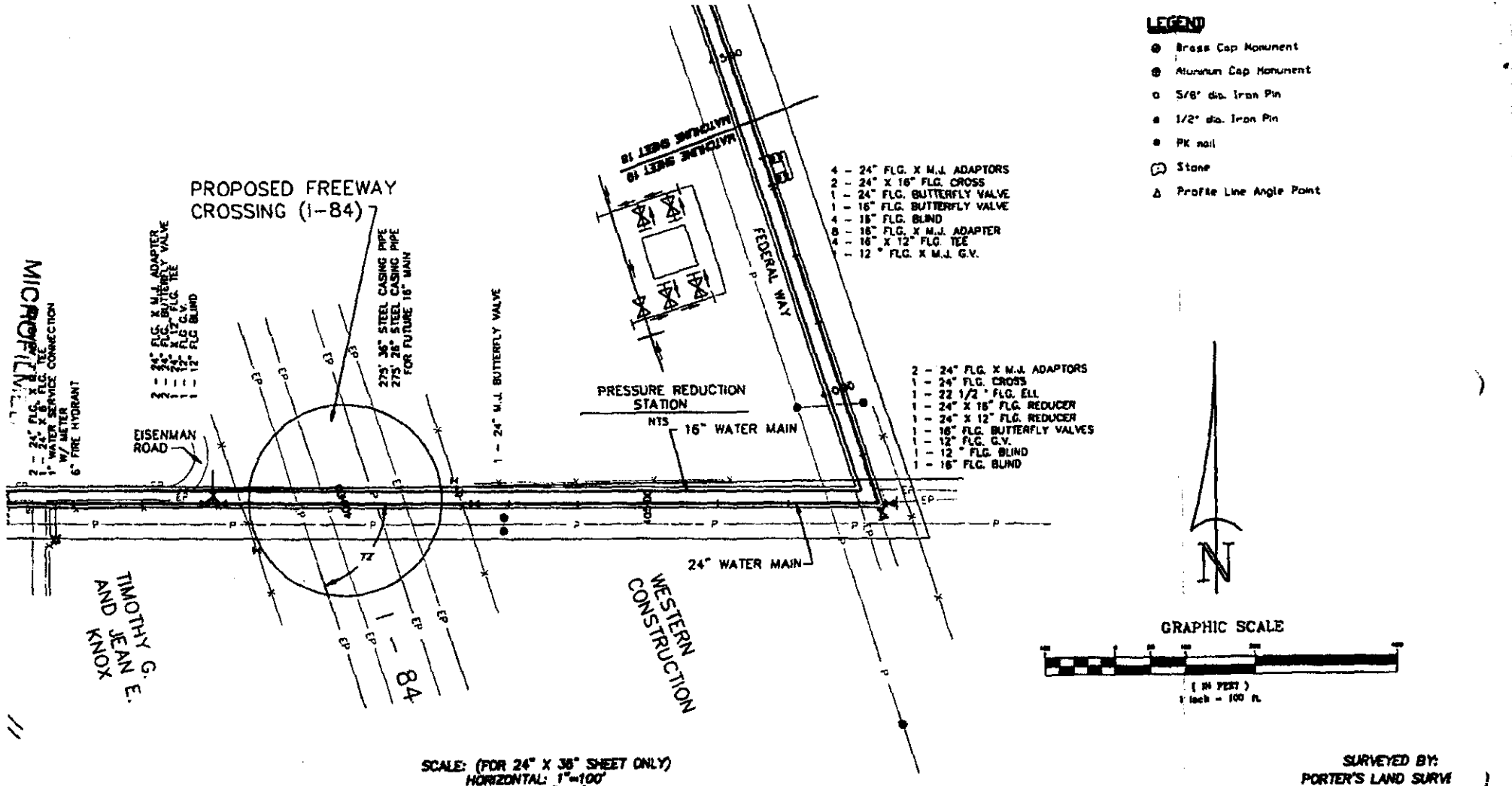
UNITED WATER IDAHO

Camille S Brown

Camille S Brown
Water Quality/Operations Specialist

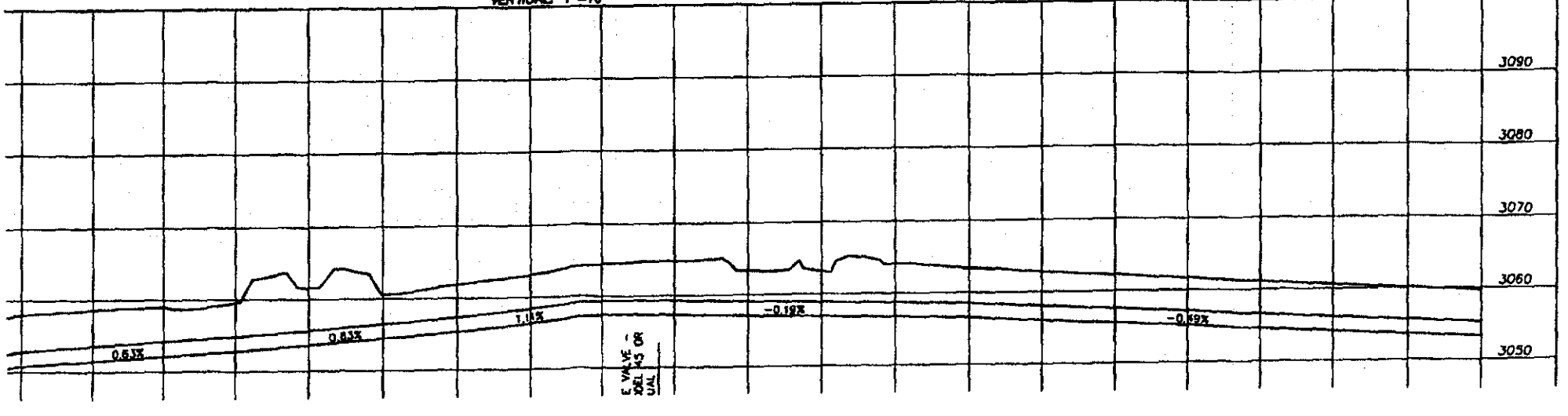
cc: Dan Brown
file

MICROFILMED
SEP 19 2001



SCALE: (FOR 24" X 36" SHEET ONLY)
HORIZONTAL: 1"=100'
VERTICAL: 1"=10'

SURVEYED BY:
PORTER'S LAND SURVE



SEP 19 2001

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

March 2, 2000

UNITED WATER IDAHO, INC.
8248 W VICTORY RD
BOISE ID 83707

RE: Permit Nos. 63-12055, 63-12138 and 63-12139

Dear Permit Holder:

I have enclosed a copy of the approved requests for extension of time submitted in connection with the above referenced permits, which extend the time within which to submit proof of beneficial use to **March 1, 2002.** Please note that the department granted the extension based on due diligence. It is important that you work diligently towards completion of this project since the department **will not** be able to grant additional extension requests based on due diligence.

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. Please contact this office or any regional office of the department for the proper form to file a change of ownership of a water right and/or a change in the address of the owner.

Please contact me at (208)327-7953, if you have any questions regarding this matter.

Sincerely,

Deborah Drew-Ellis

Deborah Drew-Ellis
Administrative Assistant
Water Allocation Bureau

Enclosure
cc: IDWR - Regional Office

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MAR 2 0 2000

ANALYSIS SHEET FOR EXTENSION OF TIME

Permit No. 63-12136 Reviewed by NB Date 3-1-00

BASIC INFORMATION

Y Date stamp received

Y Extension received timely

Y Fee received and receipted

Y Name and signature same as permit

Y Address Change

BASIS FOR EXTENSION REQUEST

Y 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

approve based on due diligence
extending proof due date

PRIORITY CALCULATION

Date extension received		=	
Proof due date		=	
Number of days late		=	
Priority date		=	
New Priority Date		=	

DATA ENTRY

New Address 8248 W. Victory Rd, Boise, Id 83707

Change Proof Due Date 3-1-2002

Change Priority Date ~~_____~~

dlh 3/2/00

RECEIVED
FEB 2 3 2000
Department of Water Resources

RECEIVED
FEB [illegible] 2000
Givens Pursley LLP

SPECIAL POWER OF ATTORNEY

United Water Idaho, Inc., an Idaho corporation, hereby appoints the attorneys of Givens Pursley LLP, 277 North 6th Street, Suite 200, Boise, Idaho, 83701 as its true and lawful attorneys for the purpose of signing on its behalf the following forms for submission with the Idaho Department of Water Resources:

1) Request for Extension of Time to Provide Additional Time in Which to Submit Proof of Beneficial Use for a Water Right Permit;

2) Notice of Change of Water Right Ownership;

3) Application for Amendment of Permit to Appropriate the Waters of the State of Idaho;

4) Notice of Protest;

5) Application for Transfer of a Water Right;

6) Proof of Beneficial Use;

7) Application for Exchange of Water;

8) Application for Extension of Time to Avoid Forfeiture of a Water Right;

9) Application to Sell or Lease a Water Right to the Water Supply Bank;

10) Application for Temporary Approval of a Water Application;

11) Application for Permit to Appropriate the Waters of the State of Idaho;

12) Any application of submission in connection with the requirements of the Municipal Water Rights Act of 1996;

13) Any other document in support or furtherance of any of the above.

All may rely on such authority. This Special Power of Attorney shall be effective until revoked in writing by United Water Idaho, Inc.

MICROFILMED
MAR 2 0 2000

For purposes of the exercise of the powers herein granted, the facsimile signature of said attorneys shall be lawful and binding and any person may rely upon such facsimile signature as if it were an original.

IN WITNESS WHEREOF, I have signed this special power of attorney effective the 18TH day of February, 2000.

Gregory P. Wyatt
President, United Water Idaho

ACKNOWLEDGMENT

State of Idaho)
) ss.
County of Ada)

On this 18TH day of February, 2000, before me, a Notary Public, in and for said County and State, personally appeared Gregory P. Wyatt, known or identified to me to be the President, of United Water Idaho, the corporation that executed the foregoing instrument, and acknowledged to me that such corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

Kathleen M. Roberts
Notary Public for Idaho
Residing at Boise
My Commission expires 12-11-2001

KATHLEEN M. ROBERTS NOTARY PUBLIC STATE OF IDAHO

MICROFILMED
MAR 2 0 2000

RECEIVED
FEB 2 3 2000
Department of Water Resources

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

Gary G. Allen
Christopher J. Beeson
Michael C. Creamer
Thomas E. Dvorak
Roy Lewis Eiguren
Jacqueline M. Fearnside
Jeffrey C. Fereday
Richard W. Jankowski
Amanda L. Keating
Karl T. Klein
Debora K. Kristensen
Franklin G. Lee
David R. Lombardi
Kimberly D. Maloney
John M. Marshall
Kenneth R. McClure
Kelly Greene McConnell
Cynthia A. Melillo
Christopher H. Meyer
L. Edward Miller
Patrick J. Miller
Judson B. Montgomery
Angela K. Nelson
W. Hugh O'Riordan
Kenneth L. Pursley
Virginia L. Stukel
Conley Ward
Stephanie C. Westermeier
Robert B. White

Raymond D. Givens
James A. McClure
OF COUNSEL

February 23, 2000

Via Hand Delivery

Mr. Glen Saxton
Idaho Department of Water Resources
1301 W. Orchard Street
Boise, ID 83706

RE: Our File No.: 30-71

Dear Mr. Saxton:

Enclosed are three Requests for Extension of Time for Water Right Nos. 63-12055, 63-12138, 63-12139 together with a check in the amount of $150.00 which represents the fee for filing the attached requests.

If you should have any questions, please feel free to contact my office.

Sincerely,

John M. Marshall

JMM/tma
Enclosures
cc: Scott Rhead

MICROFILMED
MAR 2 0 2000

December 31, 1999

UNITED WATER IDAHO
PO BOX 7488
BOISE ID 837071488

PROOF DUE NOTICE

RE: PERMIT NO. 63-12138

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 March 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,

JULIE L. YARBROUGH
Senior Secretary

Enclosures

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MAR 2 0 2000

CERTIFIED MAIL
NO. 269224700

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
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Christopher H. Meyer
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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
APR 22 1999
Department of Water Resources

August 7, 1998

Via Hand Delivery

Mr. Gary Spackman
Regional Manager
Western Regional Office
Idaho Department of Water Resources
2735 Airport Way
Boise, ID 83705-5082

Re: Tenmile Ridge Water Rights
United Water Idaho Application Nos. 63-12043, 63-12138, 63-12139

Dear Gary:

I am responding on behalf of United Water Idaho ("UWID") to your letter of July 21, 1998 to Ed Squires. Your letter addressed UWID's pending applications to amend the above-captioned permits in order to eliminate the "domestic" conditions imposed by the Department in response to the Snake River Basin Moratorium, which has since been lifted.[1]

---

[1]Condition No. 5 requires UWID not to provide more than 13,000 gallons per day to any individual home. This condition is academic with respect to domestic customers. To its knowledge, UWID has never supplied more than 13,000 gallons per day to any individual home. The more significant impact of Condition No. 5 is to prohibit UWID from serving nondomestic customers, such as Micron or the State Prison.

Condition No. 6 prohibits use of the water for "large projects such as parks, golf courses or sports activities fields." This condition has prevented UWID from using Tenmile Ridge water to serve the Columbia Village soccer fields.

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APR 28 2000

You note correctly that UWID must demonstrate, under Idaho Code § 42-211, that approval of its applications for amendment of the Tenmile Ridge permits "would not result in the diversion and use of more water than originally permitted" and that "the rights of others will not be adversely affected." It is UWID's position that both these conditions are satisfied.

The conditions were understood to be temporary measures.

First, the domestic conditions were never understood to be permanent. Rather, they were a temporary accommodation agreed to by UWID in the context of a cooperative effort involving the Department. Let me briefly recap that history.

The Tenmile Ridge well field was commenced in response to water level declines in the Southeast Boise Ground Water Management Area. As part of a collective effort to solve management problems, UWID agreed, prior to the imposition of the Moratorium, to stop pumping its Oregon Trail and Gowen wells. This, in turn, entailed replacing that water with water from new wells along Tenmile Ridge. As these wells were drilled pursuant to this cooperative agreement, they were subjected to the Moratorium-based domestic conditions. UWID accepted these restrictions on the understanding that they were temporary measures to address a drought emergency. Likewise, the public was always made to understand that the Moratorium was temporary.

That drought emergency is now over, and conditions in the aquifer have allowed the Department to lift the Moratorium which gave rise to the domestic conditions. Indeed, we understand that the Department is now processing other applications for non-domestic water rights in the area. Consequently, UWID is entitled to have the conditions removed.

The conditions do not affect water quantity, and their removal will not increase diversions.

Second, UWID is seeking no change in the rate of flow at which water may be diverted nor in the total annual volume of water it may divert. (In fact, there is no annual volume associated with this municipal right.) Instead, UWID seeks solely to have lifted the two domestic conditions imposed by the Department.

The effect of the domestic conditions is not to restrict the quantity of water available under the permit. Indeed, the diversion rate on each of the permits remained

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MAR 2 0 2000

unchanged and is identical with that sought on each application for permit. Likewise, lifting the conditions will also have no impact on the quantity of water available under the permits. Regardless of the conditions, UWID is entitled to prove up the entire diversion rate allowed under the permit.

This conclusion is reinforced by considering the underlying purpose of the conditions. Unlike other conditions typically imposed by the Department, the domestic conditions were not aimed at protecting other users or limiting the impact of the right on the resource. Instead, they were intended to allow a particular class of water uses to escape the Moratorium, despite their impact on the aquifer. In an exercise of political judgment, the Department crafted the exception to mimick the statutory exemption for domestic use. But that did not have the effect of converting the rights to domestic rights. Indeed, each permit states plainly on its face that it is a municipal right, a statement which has put the public on notice from the outset.

The conditions increase costs and reduce efficiency, but conserve no water.

As described in my March 26, 1998 letter to Karl Dreher and Norm Young, as a result of the domestic conditions, water from Tenmile Ridge cannot be delivered directly to Micron, the prison, the soccer fields, or other nondomestic uses. Instead, industrial and commercial demand in that area must be met by delivering the Tenmile Ridge water down to the lower Gowen Reservoir (where it mixes with water from older wells at the lower service level) and then boosting (re-pumping) water from non-restricted water rights up to the higher service level for commercial and industrial use. In other words, the Department will not allow UWID to engage in an accounting process unless it first makes a physical connection to its larger integrated system, and then pumps back from that system. This exercise creates no new water, but contributes to higher costs and rates.

This arrangement has conserved no water, but has wasted a good deal of energy—with attendant environmental costs. And, as you can imagine, it imposes a substantial accounting burden. This approach to system operation can only be understood in the historical context of the need to fit an arbitrary exception to the Moratorium. Now that the Moratorium has been lifted, there can be no sound policy justification for maintaining these conditions.

Let me emphasize, UWID can and will continue to develop the Tenmile Ridge permits to the limits of their permitted capacity. UWID can and will do so regardless of whether the domestic conditions are lifted. Thus, whether UWID remains subject to the

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MAR 2 0 2000

domestic conditions will have no impact one way or the other on other water users or on the resource itself. The only issue is whether UWID is allowed to manage water delivery efficiently.

UWID is entitled to prove up any time prior to the proof date.

In your letter, you requested "information regarding the quantity of water diverted from the four wells during the period of time the wells have been operating." You stated further that "[t]he information will be used to condition water rights to ensure that the use under the water rights will not be enlarged."

Your statement hints that UWID's entitlement under this permit may be capped based on a period of use prior to the date of proof. As it happens, UWID is using the four wells to their full capacity today. That measure, however, should not serve as a basis for establishing the quantity of the water right. For instance, additional wells might be drilled prior to proof. The law is quite clear that the holder of a permit has up until the date of proof to establish the quantity dimensions of a right. (Indeed, UWID might request an extension of the date of proof.) There may be any number of reasons why a particular permit is not pumped at full capacity prior to the time at which proof is made. Those reasons may have to do with production capacity and other physical limitations, financial considerations, and all manner of concerns unique to the holder. In sum, until the time that proof is made, the measure of a permitted right is the quantity stated on the permit.

Municipal water right holders are entitled to additional flexibility.

This right to use the entire proof period applies to all water permits. Additional and even more compelling considerations come into play where a municipal right is concerned, as is the case here. As a holder of a municipal right, UWID's proof focuses on system capacity. Its use records for any pre-proof period are simply not relevant to the analysis.

We would like to explore these issues with you further.

As you can imagine, the elimination of domestic conditions without sacrificing the integrity of its water rights is of the utmost importance to UWID. Given what is at stake, we would appreciate an opportunity to meet with you and any other Department officials who may be involved in resolving this principle.

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MAR 2 0 2000

As always, I appreciate your candor, your practical insights, and your willingness to work through a problem constructively. I look forward to hearing from you.

Best regards,

Christopher H. Meyer

cc: Norman C. Young
Steve Lester
Phillip J. Rassier, Esq.
Edward Squires

CHM:baf
S:\Clients\30\82\Corr\1998-08-07 CHM Ltr to G.Spackman - Re response to letter.wpd

MICROFILMED
MAR 2 0 2000

Form 238-7
7.94

IDAH DEPARTMENT OF WATER RESC RCES

WELL DRILLER'S REPORT

Use Typewriter or Ball Point Pen

1. DRILLING PERMIT NO. 63-99-W0167-000
Other IDWR No. D 1539

2. OWNER: 63-12043 63-12138 63-12139
Name United Water Idaho Inc.
Address P.O. Box 7488
City Boise State Id. Zip 83707

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

N / W / E / S

Twp. 2 North ☑ or South ☐
Rge. 2 East ☒ or West ☐
Sec. 22, NE 1/4 (10 acres) NW 1/4 (40 acres) NE 1/4 (160 acres)
Gov't Lot ____ County Ada

Address of Well Site Pleasant Valley Rd. to Annex
(Give at least name of road + Distance to Road or Landmark)
City Boise

Lt. ____ Blk. ____ Sub. Name ____

4. PROPOSED USE:
☐ Domestic ☒ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other ____

5. TYPE OF WORK
☑ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD
☐ Mud Rotary ☐ Air Rotary ☐ Cable ☐ Other Reverse Rotary

7. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
Bencaite ⅜"	0	681	115000#	overbore
#8 #12 sand	690	922	33000#	overbore

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) ____
Was drive shoe seal tested? Y ☐ N ☒ How? ____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
18"	+2	681	.375	Steel	☒	☐	☒	☐
10"	665'	691'	.365	Steel	☒	☐	☒	☐
10"	701'	738'	.365	Steel	☒	☐	☒	☐

Length of Headpipe 26' Length of Tailpipe 10'

9. PERFORATIONS/SCREENS
☐ Perforations Method ____
☒ Screens Screen Type Wire wrap

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
Drawing & Attached						☐	☐
						☐	☐
				10"		☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
SIC ft. below ground Artesian pressure ____ lb.
Depth flow encountered ____ ft. Describe access port or control devices: 2" access

11. WELL TESTS:
☑ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
2000		660'	8 hrs

Water Temp. 77½°F Bottom hole temp. ____
Water Quality test or comments: ____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water Y	Water N
30"	0	9'	Top Soil		
	9'	220	Gravels & Sands stks clay		
	220	239	Brn Sand & Clay with gravel		
	239	390	Broken rock Sand & Gravel		
	390	405	brn Sticky Clay		
	405	549	Broken rock, sand & gravel		
	549	609	Brn Clay stks gravel		
	609	660	Fine white Sand & Clay		
	660	688	med to coarse sand		
	688	696	Brn Clay		
18"	696	922	Sands & gravels stks clay		
	922	930	Brn Clay		X

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RECEIVED
MAR 20 2000
APR 23 1998
Department of Water Resources
RECEIVED
APR 15 1998
RECEIVED
APR 21 1998
WATER RESOURCES
WESTERN REGION
Department of Water Resources

Completed Depth 922' (Measurable)
Date: Started 11/07/97 Completed 3/18/98

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

Firm Name Riverside Inc Firm No. 333
Firm Official ____ Date ____
and
Supervisor or Operator [signature] Date 4/8/98
(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

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

September 11, 1998

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

UNITED WATER IDAHO
PO BOX 7488
BOISE ID 83707-1488

RE: Water Rights 63-12043/63-12138/63-12139

Dear Permit Holder(s):

The Department of Water Resources (IDWR) has issued the enclosed Amendments of Permit approving your applications to amend the water rights referenced above. Please be sure to review every element of the Amendments of Permit, including the conditions of approval and remarks.

The Amendments of Permit are **preliminary orders** issued by IDWR pursuant to section 67-5243, Idaho Code. **They can and will become final orders 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

Enclosures

MICROFILMED

SEP 22 1998

CERTIFICATE OF MAILING

I hereby certify that on the **11th** day of **September, 1998,** I mailed a true and correct copy, postage prepaid, of the foregoing **PRELIMINARY ORDERS (Amended Permits)** to the person(s) listed below:

Water Rights 63-12043/63-12138/63-12139

UNITED WATER IDAHO
PO BOX 7488
BOISE ID 83707-1488

Kari Lynn Townsend
Secretary

MICROFILMED
SEP 2 2 1998

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

SEP 2 2 1998

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
SEP 22 1998

Memorandum

To: Norm Young

CC: Wayne Haas

From: Shane Bendixsen

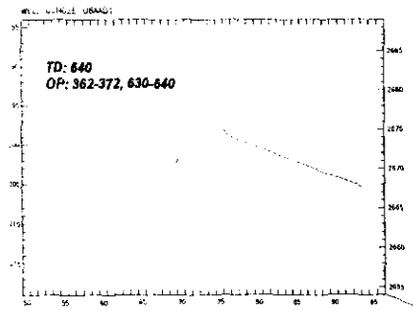
Date: September 8, 1998

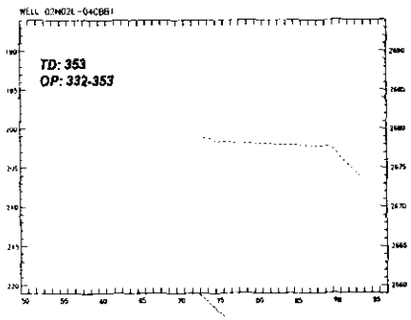
Re: Wegener Ground Water Level Information

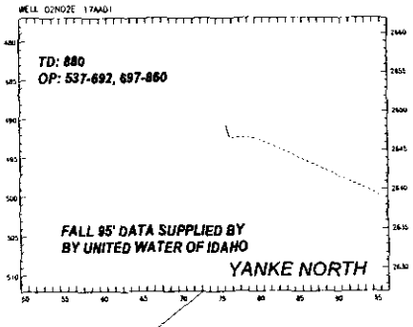
Attached are ground water hydrographs and a map showing the generalized flow direction in the vicinity of the Wegener well. Data are based on Spring, 1998 TVHP ground water measurements. Ground water flow direction in that area is considered southwest and tributary toward the Snake River.

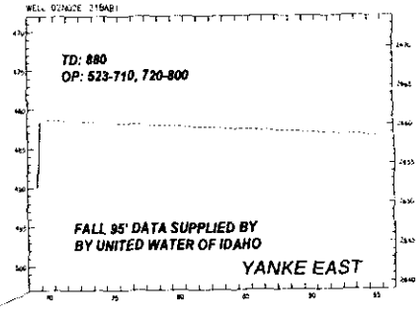
Please feel free to call me if you any questions.

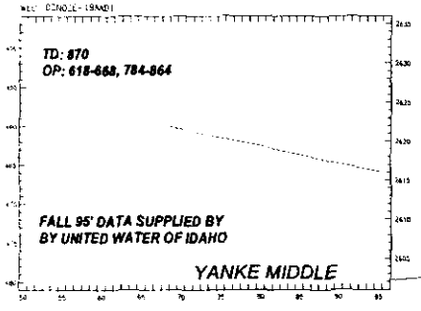
MICROFILMED
SEP 2 2 1998

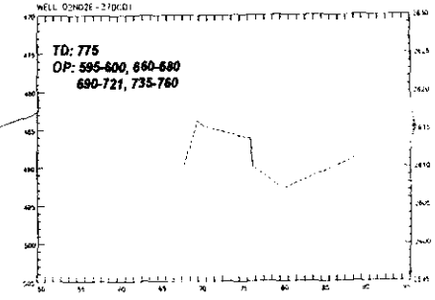


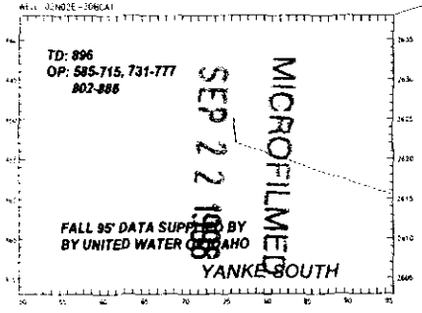


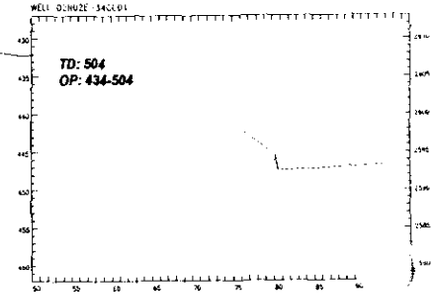


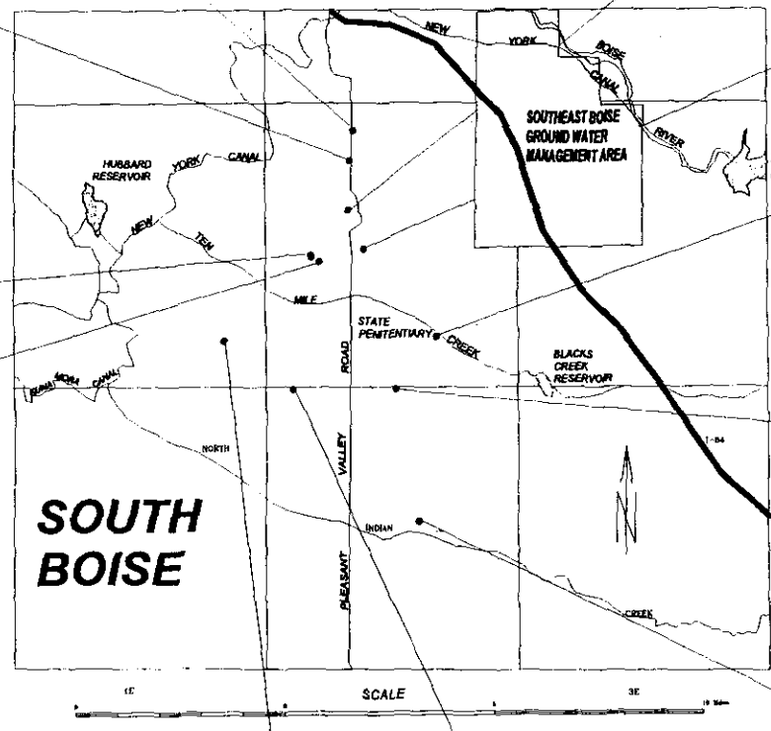












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SEP 2 2 1988

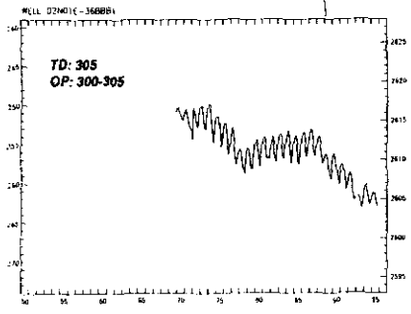
GROUND WATER HYDROGRAPHS

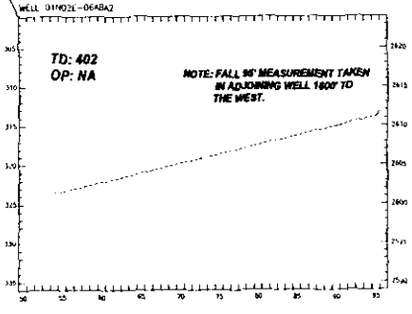
LEGEND

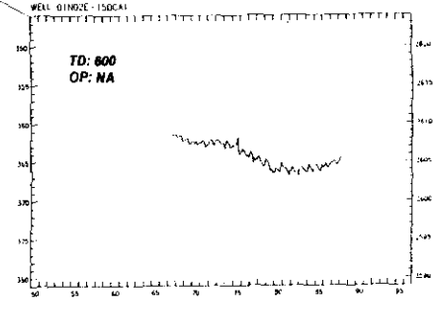
TD: TOTAL DEPTH
OP: INTERVAL AT WHICH THE WELL IS PERFORATED OR OPEN TO THE AQUIFER.
LEFT SIDE: DEPTH TO WATER
RIGHT SIDE: WATER ELEVATION
BASE: YEAR
ALL MEASUREMENTS IN FEET

– – – SPOT MEASUREMENTS

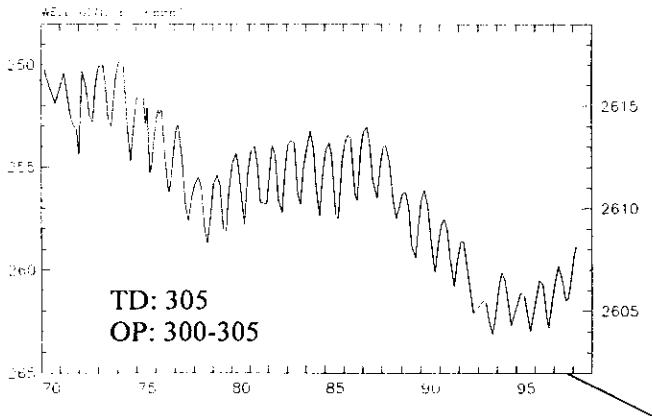
– — – — MEASURED FREQUENTLY ON A YEARLY BASIS

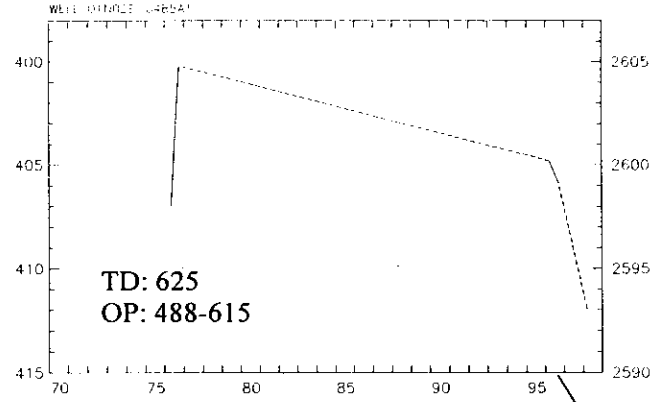


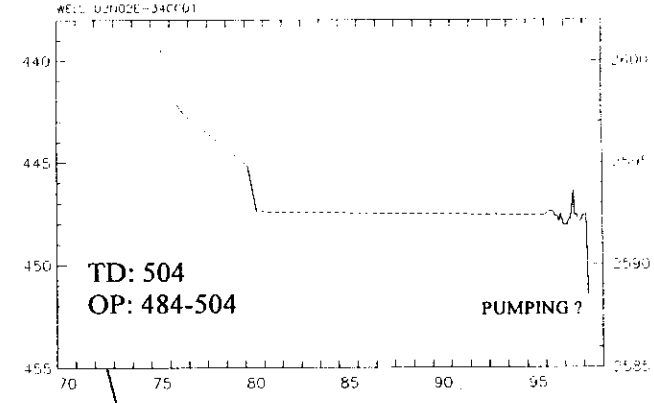


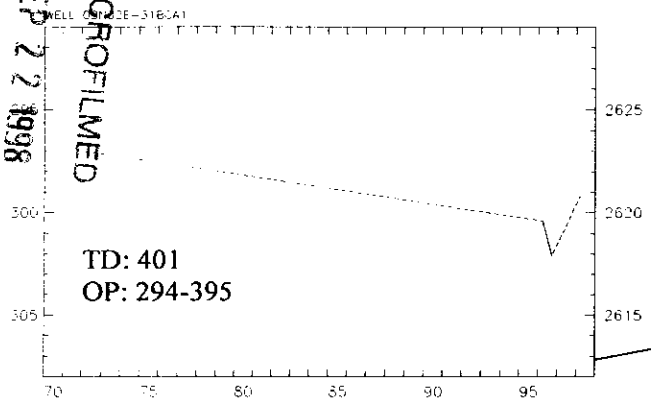


PREPARED BY THE IDAHO DEPARTMENT OF WATER RESOURCES



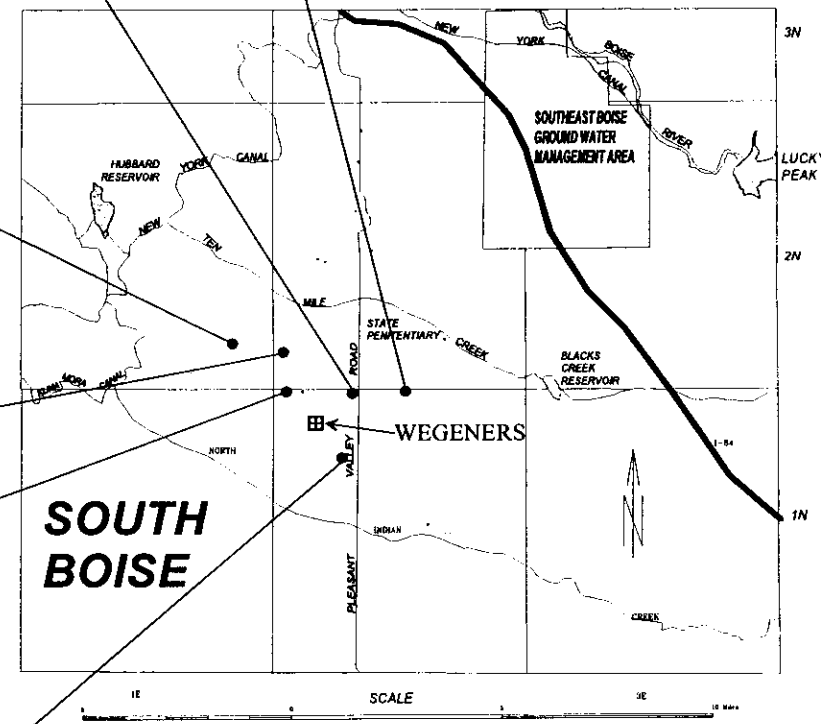




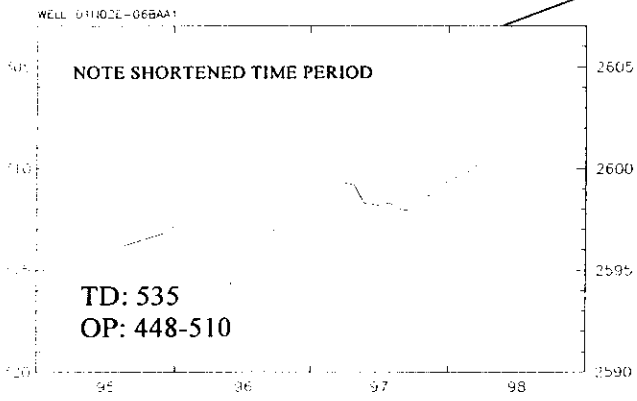


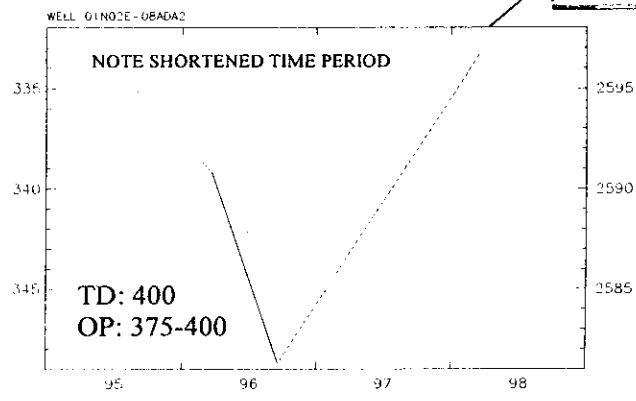
SEP 2 2 1998
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GROUND WATER HYDROGRAPHS



• WELL LOCATION





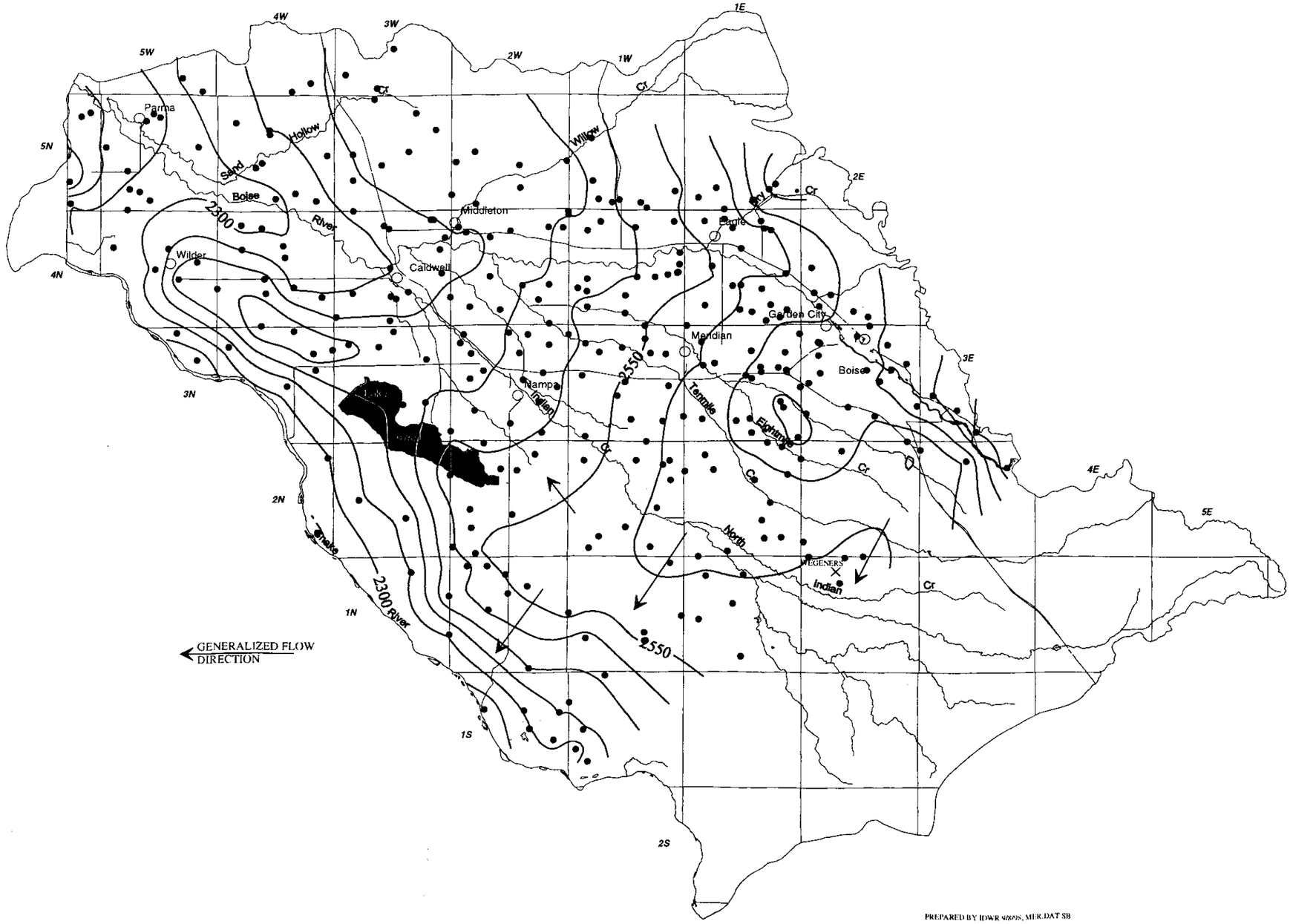
LEGEND

TD: TOTAL DEPTH
OP: INTERVAL AT WHICH THE WELL IS PERFORATED OR OPEN TO THE AQUIFER.
LEFT SIDE: DEPTH TO WATER
RIGHT SIDE: WATER ELEVATION
BASE: YEAR
ALL MEASUREMENTS IN FEET
CURRENT TO SPRING 1998

JULY '98 SB

TREASURE VALLEY

GROUND WATER ELEVATIONS



PREPARED BY IDWR 9/2005, MER.DAT SB

United Water Idaho
8248 West Victory Road
PO Box 7498
Boise, ID 83707-1498

United Water

Fax

United Water Idaho
Geosciences Department
telephone (208) 362-7332
facsimile (208) 362-3858

COVER SHEET
Urgent

Date: 9-8-98, 1998. **Time:** 11 : 45 (AM) / PM.

To: Norm Young at FAX: ( ) 327-7866.

Company: IDWR at phone ( ) 327-7900.

From: E. Squires

Subject: Ten mile Ridge Groundwater Levels.

Number of pages including this cover sheet: 19 page(s).

cc: Steve Lester
334-2348

Dear Norm.

Here are our printouts for the 10-mile Ridge wells during peak season 1998. along with 1997 peak without the new Pioneer well.

Also included is a map showing domestic wells along Hollilynne Drive and selected water levels over time. The table of water-levels is mostly updated through last fall as it is now time to remeasure. The names with the most entries are the friendliest or are those who don't mind us measuring there well when they are not home. Nancy Baker's (5899 Hollilynn) well has been measured 8-13-98.

Please call with questions. I am now on my cell-phone 859-5455 on my way to Ed visit with Mr. Beach.

MICROFILMED
SEP 22 1998

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

July 21, 1998

RECEIVED
JUL 24 1997
UNITED WATER

ED SQUIRES
UNITED WATER IDAHO
8248 W VICTORY RD
PO BOX 7488
BOISE ID 83707-1488

Re: Applications to Amend Permit Nos. 63-12043, 63-12138 & 63-12139 (Tenmile, Raptor, Pleasant & Pioneer)

Dear Ed:

As you know, notice of applications to amend water rights nos. 63-12043, 63-12138 & 63-12139 was published in the Idaho Code § 42-211 requires that the Idaho Department of Water Resources (IDWR) examine the application to determine whether approval would "result in the diversion and use of more water than originally permitted" and whether "the rights of others will . . . be adversely affected. . . ." The permits were originally conditioned that water could not be supplied for large irrigation, commercial, or industrial purposes. Removal of the conditions as proposed by the applications for amendment could result in diversion of a greater flow or volume of water from the wells described as points of diversion.

This letter requests information regarding the quantity of water diverted from the four wells during the period of time the wells have been operating. The information will be used to condition water rights to ensure that the use under the water rights will not be enlarged.

Sincerely,

Gary Spackman

GS:st

CC: Norm Young, IDWR
Steve Lester, IDWR, Western

MICROFILMED
SEP 22 1998

United Water Idaho
8248 West Victory Road
PO Box 7488
Boise, ID 83707-1488

UnitedWater

United Water Idaho
Geosciences Department
telephone (208) 362-7332
facsimile (208) 362-3858

Fax
COVER SHEET

Date: 7-28 , 1998. **Time:** 11 :00 AM / PM.

To: Chris Meyer at FAX: ( )

Company: GP+H at phone ( ) 388-1236

From: E. Squires

Subject: South Boise Water Rights

Number of pages including this cover sheet: 5 page(s).

cc:

Dear Chris,

4 printouts showing all 4 wells pumping at summer maximum yesterday.

1) Letter from Gary Spackman

will send additional FAX with quantities of permits.

Ed

MICROFILMED
SEP 22 1998

Jul 28 1998

pioneer_shd Trend

Time	MaxSHD
Jul 27 1998 6:00A	20.80
Jul 27 1998 7:00A	20.80
Jul 27 1998 8:00A	20.80
Jul 27 1998 9:00A	20.80
Jul 27 1998 10:00A	20.60
Jul 27 1998 11:00A	20.60
Jul 27 1998 12:00P	20.60
Jul 27 1998 1:00P	20.60
Jul 27 1998 2:00P	20.80
Jul 27 1998 3:00P	20.60
Jul 27 1998 4:00P	20.60
Jul 27 1998 5:00P	20.60
Jul 27 1998 6:00P	20.60
Jul 27 1998 7:00P	20.60
Jul 27 1998 8:00P	20.60
Jul 27 1998 9:00P	20.60
Jul 27 1998 10:00P	20.60
Jul 27 1998 11:00P	20.60
Jul 28 1998 12:00A	20.40
Jul 28 1998 1:00A	20.60
Jul 28 1998 2:00A	20.60
Jul 28 1998 3:00A	20.60
Jul 28 1998 4:00A	20.40
Jul 28 1998 5:00A	20.40

pioneer_c1 GPM Trend

Time	MaxGPM	Average
Jul 27 1998 6:00A	1,202.25	1,124.43
Jul 27 1998 7:00A	1,194.30	1,119.94
Jul 27 1998 8:00A	1,159.43	1,130.18
Jul 27 1998 9:00A	1,141.47	1,126.20
Jul 27 1998 10:00A	1,151.43	1,119.36
Jul 27 1998 11:00A	1,184.41	1,140.50
Jul 27 1998 12:00P	1,169.92	1,116.88
Jul 27 1998 1:00P	1,194.75	1,140.93
Jul 27 1998 2:00P	1,149.63	1,115.90
Jul 27 1998 3:00P	1,199.26	1,135.60
Jul 27 1998 4:00P	1,173.85	1,125.95
Jul 27 1998 5:00P	1,145.73	1,123.58
Jul 27 1998 6:00P	1,173.35	1,128.96
Jul 27 1998 7:00P	1,147.99	1,114.45
Jul 27 1998 8:00P	1,206.58	1,137.20
Jul 27 1998 9:00P	1,190.53	1,120.96
Jul 27 1998 10:00P	1,195.34	1,126.90
Jul 27 1998 11:00P	1,195.34	1,141.90
Jul 28 1998 12:00A	1,197.22	1,119.36
Jul 28 1998 1:00A	1,197.22	1,125.65
Jul 28 1998 2:00A	1,141.70	1,125.26
Jul 28 1998 3:00A	1,183.53	951.09
Jul 28 1998 4:00A	1,185.39	1,126.60
Jul 28 1998 5:00A	1,181.38	1,115.42

MICROFILMED
SEP 22 1998

Jul 28 1998

ten_mile_shd Trend

Time	MaxSHD
Jul 27 1998 8:00A	102.35
Jul 27 1998 9:00A	102.35
Jul 27 1998 10:00A	102.35
Jul 27 1998 11:00A	102.35
Jul 27 1998 12:00P	102.35
Jul 27 1998 1:00P	102.35
Jul 27 1998 2:00P	102.35
Jul 27 1998 3:00P	102.35
Jul 27 1998 4:00P	102.35
Jul 27 1998 5:00P	102.35
Jul 27 1998 6:00P	102.35
Jul 27 1998 7:00P	102.35
Jul 27 1998 8:00P	102.35
Jul 27 1998 9:00P	102.35
Jul 27 1998 10:00P	102.35
Jul 27 1998 11:00P	102.35
Jul 28 1998 12:00A	102.35
Jul 28 1998 1:00A	102.35
Jul 28 1998 2:00A	102.35
Jul 28 1998 3:00A	102.35
Jul 28 1998 4:00A	102.35
Jul 28 1998 5:00A	102.35
Jul 28 1998 6:00A	102.35
Jul 28 1998 7:00A	102.35

ten_mile_r11_c1 GPM Trend

Time	MaxGPM	Average
Jul 27 1998 8:00A	1,044.87	1,003.04
Jul 27 1998 9:00A	1,014.82	986.90
Jul 27 1998 10:00A	1,047.35	992.61
Jul 27 1998 11:00A	1,060.18	1,008.37
Jul 27 1998 12:00P	1,016.45	975.02
Jul 27 1998 1:00P	1,030.94	1,001.19
Jul 27 1998 2:00P	1,045.87	989.35
Jul 27 1998 3:00P	1,030.84	986.34
Jul 27 1998 4:00P	1,042.11	997.44
Jul 27 1998 5:00P	1,035.15	994.96
Jul 27 1998 6:00P	1,014.34	982.95
Jul 27 1998 7:00P	1,035.47	999.42
Jul 27 1998 8:00P	1,033.18	997.33
Jul 27 1998 9:00P	1,024.72	984.63
Jul 27 1998 10:00P	1,077.60	992.43
Jul 27 1998 11:00P	1,001.03	979.58
Jul 28 1998 12:00A	1,057.49	998.24
Jul 28 1998 1:00A	1,040.41	983.63
Jul 28 1998 2:00A	1,041.51	995.32
Jul 28 1998 3:00A	1,019.63	988.73
Jul 28 1998 4:00A	1,016.77	985.47
Jul 28 1998 5:00A	1,047.81	998.13
Jul 28 1998 6:00A	1,073.89	974.66
Jul 28 1998 7:00A	1,039.34	994.43

MICROFILMED
SEP 2 2 1998

Jul 28 1998

p_valley_shd Trend

Time	MaxSHD
Jul 27 1998 6:00A	44.63
Jul 27 1998 7:00A	44.47
Jul 27 1998 8:00A	44.17
Jul 27 1998 9:00A	43.35
Jul 27 1998 10:00A	43.58
Jul 27 1998 11:00A	44.10
Jul 27 1998 12:00P	44.10
Jul 27 1998 1:00P	43.95
Jul 27 1998 2:00P	43.50
Jul 27 1998 3:00P	42.60
Jul 27 1998 4:00P	43.20
Jul 27 1998 5:00P	43.35
Jul 27 1998 6:00P	43.42
Jul 27 1998 7:00P	42.83
Jul 27 1998 8:00P	41.85
Jul 27 1998 9:00P	41.78
Jul 27 1998 10:00P	41.92
Jul 27 1998 11:00P	42.00
Jul 28 1998 12:00A	41.25
Jul 28 1998 1:00A	40.65
Jul 28 1998 2:00A	40.72
Jul 28 1998 3:00A	41.10
Jul 28 1998 4:00A	41.17
Jul 28 1998 5:00A	40.88

p_valley_c1 GPM Trend

Time	MaxGPM	Average
Jul 27 1998 6:00A	1,938.62	1,880.32
Jul 27 1998 7:00A	1,952.65	1,878.68
Jul 27 1998 8:00A	1,929.74	1,877.19
Jul 27 1998 9:00A	1,925.87	1,886.74
Jul 27 1998 10:00A	1,917.83	1,885.84
Jul 27 1998 11:00A	1,923.40	1,885.20
Jul 27 1998 12:00P	1,914.79	1,866.31
Jul 27 1998 1:00P	1,955.35	1,872.74
Jul 27 1998 2:00P	1,927.61	1,880.58
Jul 27 1998 3:00P	1,927.61	1,884.46
Jul 27 1998 4:00P	1,923.23	1,886.99
Jul 27 1998 5:00P	1,938.39	1,875.46
Jul 27 1998 6:00P	1,911.76	1,887.49
Jul 27 1998 7:00P	1,960.10	1,881.80
Jul 27 1998 8:00P	1,935.11	1,875.79
Jul 27 1998 9:00P	1,935.11	1,864.95
Jul 27 1998 10:00P	1,918.64	1,881.90
Jul 27 1998 11:00P	1,939.28	1,883.90
Jul 28 1998 12:00A	1,941.71	1,884.26
Jul 28 1998 1:00A	1,931.67	1,881.41
Jul 28 1998 2:00A	1,931.67	1,875.55
Jul 28 1998 3:00A	1,944.61	1,868.05
Jul 28 1998 4:00A	1,950.24	1,886.92
Jul 28 1998 5:00A	1,924.57	1,874.58

MICROFILMED
SEP 22 1998

Jul 28 1998

raptor_shd Trend

Time	MaxSHD
Jul 27 1998 6:00A	91.09
Jul 27 1998 7:00A	91.09
Jul 27 1998 8:00A	91.18
Jul 27 1998 9:00A	91.09
Jul 27 1998 10:00A	91.09
Jul 27 1998 11:00A	91.09
Jul 27 1998 12:00P	91.09
Jul 27 1998 1:00P	91.09
Jul 27 1998 2:00P	91.18
Jul 27 1998 3:00P	91.00
Jul 27 1998 4:00P	91.00
Jul 27 1998 5:00P	91.09
Jul 27 1998 6:00P	91.00
Jul 27 1998 7:00P	91.09
Jul 27 1998 8:00P	91.09
Jul 27 1998 9:00P	91.09
Jul 27 1998 10:00P	91.09
Jul 27 1998 11:00P	91.09
Jul 28 1998 12:00A	91.09
Jul 28 1998 1:00A	91.18
Jul 28 1998 2:00A	91.26
Jul 28 1998 3:00A	91.18
Jul 28 1998 4:00A	91.18
Jul 28 1998 5:00A	91.00

raptor_r2_c1 GPM Trend

Time	MaxGPM	Average
Jul 27 1998 6:00A	673.14	585.30
Jul 27 1998 7:00A	684.97	603.60
Jul 27 1998 8:00A	655.83	587.01
Jul 27 1998 9:00A	661.48	595.30
Jul 27 1998 10:00A	653.64	590.03
Jul 27 1998 11:00A	653.01	609.47
Jul 27 1998 12:00P	669.22	590.60
Jul 27 1998 1:00P	645.95	599.14
Jul 27 1998 2:00P	649.35	582.76
Jul 27 1998 3:00P	664.51	610.79
Jul 27 1998 4:00P	660.15	597.12
Jul 27 1998 5:00P	660.15	593.72
Jul 27 1998 6:00P	665.31	602.36
Jul 27 1998 7:00P	652.36	587.94
Jul 27 1998 8:00P	635.50	598.68
Jul 27 1998 9:00P	622.29	587.74
Jul 27 1998 10:00P	644.84	602.09
Jul 27 1998 11:00P	673.58	593.61
Jul 28 1998 12:00A	763.21	612.33
Jul 28 1998 1:00A	643.65	585.13
Jul 28 1998 2:00A	662.90	598.05
Jul 28 1998 3:00A	655.67	596.66
Jul 28 1998 4:00A	647.04	592.87
Jul 28 1998 5:00A	639.34	583.97

MICROFILMED
SEP 22 1998

UNITED WATER ID/
Water Treatment Recc

LOCATION: Bates DATE: July - Aug '97

DATE	CL2 TOTAL (lbs)	CL2 USED (lbs)	CL2 RES. (ppm)	TOTAL PO4 (G)	PO4 USED (G)	SPDY STK	pH	METER READING (erase your #'s)	DAILY TOTAL (MG)	GPM	DD	PSI	OP
1													
31	491/498	7	.8					138990		840	346	93	
30													
29	346	11	.6					137970		830	512	98	
28													
27	357	17	.8					136160		830	514	95	
26													
25	374	14	.8					133740		828	374	97	
24													
23	388	18	.8				8.0	131670		835	513	87	
22													
21	406	9	.7					128960		825	370	95	
20													
19	415	11	—					127880		OFF	335	88	
18													
17	426	17	.8				7.0	125940		835	512	93	
16													
15	443	11	0.8				X	123550		850	506	97	
14													
13	454	10	.8					121890		870	512	92	
12													
11	464	3		Clean-1				120390		off	470		
10													
9	467	14						120020		OFF	471	90	
8													
7	481/329	17	.8					117850		855	512	92	
6													
5	348	10	.9					115360		870	510	94	
4													
3	358	9	1.0					114120		880	511	95	
2													
1	32.2							118770					

PO4 use per 1 MG production = * _____ *

TOTAL CL2 USE: 180

TOTAL PO4 USE: _____

TOTAL PRODUCTION: 26220

Production Supervisor

MICROFILMED
SEP 22 1998

UNITED WATER IDAHO
Water Treatment

LOCATION: Teton Mile DATE: July '98

DATE	CL2 TOTAL (lbs)	CL2 USED (lbs)	CL2 RES. (ppm)	TOTAL PO4 (G)	PO4 USED (G)	SPD/ STK	pH	METER READING (count your #'s)	DAILY TOTAL (MG)	GPM	DD	PSI	OP
1	457	20	.7					29440		999	607	65	
31													
30	474	15	.7					26590		990	610	65	
29													
28	189/310	16	.7					23720		1000	643	60	
27													
26	326	14	.8					20820		1000	610	62	
25													
24	342	20	.8				7.6	18350		1000	610	61	
23													
22	362	19	.7					15300		1000	610	64	
21													
20	381	13	.7					12190		1000	610	64	
19													
18	394	15	.7					10330		1010	611	61	
17													
16	409	30	0.8				X	7660		1000	610	64	
15													
14	439	5	.8				8.2	4470		1007	604	65	
13													
12	443	16	.9					3750		off	511	60	
11													
10	459	26	1.7					2210		1027	603	60	
9													
8	485							0					
7													
6													
5													
4													
3													
2													
1													

PO4 use per 1 MG production = * _____ *

TOTAL CL2 USE: 207

TOTAL PO4 USE: "

TOTAL PRODUCTION: 27.235

Production Supervisor

MICROFILMED
SEP 22 1998

UNITED WATER IDAHO
er Treatment Record

LOCATION: PLEASANT VALLEY DATE: JUNE '97

DATE	CL2 TOTAL (lbs)	CL2 USED (lbs)	CL2 RES. (ppm)	TOTAL PO4 (G)	PO4 USED (G)	SPDY STK	pH	METER READING (start read 0)	DAILY TOTAL (MG)	GPM	DD	PSI	OP
1			1										
31													
30	430/486	56	.9					183220			553	65	CA
29													
28	300	41	.9					177390		1960	670	66	BS
27													
26	341	61	0.9				8.2	173040		1610	605	66	RS
25													
24	402	33	1.0					166620		1960	591	70	CA
23													
22	435/486	40	1.1					162400		1950	547	64	JD
21													
20	325	45	1.0					156950		1933	594	68	CA.
19													
18	370	48	.8					152210		1958	567	67	MS
17													
16	418	54	.8				8X	146940		1950	565	66	LR.
15													
14	461/324	37	0.9					143400		1950	564	68	KG
13													
12	361	45						139680		0	518		KS
11													
10	406	44	1.0					135100		1940	570	68	SF
9													
8	450/297	37						130370		1960	570	68	KG
7													
6	334	22	.8					126260		1145	543	70	SO
5													
4	356	32	1.0					123940	4.060	1960	543	71	CA
3													
2	388/271	29	.7					119880	4930	1950	570	66	NA
1	300							114950					

PO4 use per 1 MG production = * _____ *

TOTAL CL2 USE: 604

TOTAL PO4 USE: _____

TOTAL PRODUCTION: 68270

Production Supervisor

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SEP 2 2 1998

9-7-98 Notes from phone conversation with Jack Beach.

- 29 some years – no problems
- pump sucking air
- had 83 feet over bowls
- now static wl 163 feet – Coonse Well Drilling
- 4 houses + irr served off well.
- 8-inch drilled for Beach

Cowe = original driller

- added 25 feet – pump column last week = same problem
- 500 gal pressure tank
- Gary Coonse = pump man = stated problem due to UWI wells.
- Started having problems 3 wks ago.
- Two pumps 7.5 & 5hp ~~lower~~ 2 wells down well.
- 283 feet deep
- 4 house + yards

8440 South Cole

last bridge – 2nd lane to left

- Jack Beach 362-4409
- will meet him at noon 9-8-98

MICROFILMED SEP 22 1998

Table of water-levels in domestic wells on Hollilynn Drive

T2N, R2E Sections 7 and 8 (all water-levels measured with chlorinated, steel tape)

Water-levels were measured with the pump off (except where noted)

owner/ address	water-level (feet below datum)	date	time	datum/ casing diameter & comments
Warila 5555	249.22	11/18/97	13:00	+1.8 ft. above ground
Duffy 5702	216.98	11/18/97	12:00	+0.0 ft.
Thatcher	271.39	1/10/94	09:32	+2.1 ft.
5785	271.26	8/25/95	15:00	
	270.90	11/27/95	15:10	
	271.63	6/21/96	14:31	
	272.06	8/16/96	13:35	
	272.47	5/1/97	12:10	
	272.76	10/27/97	13:46	
	272.60	11/18/97	13:20	
Fletchinger 5876	212.87	10/22/93	14:00	+1.4 ft., 6-in. casing
Baker 5899	244.60	11/27/95	14:20	+1.0 ft., 6-in. casing
	244.52	11/29/95	12:07	
	244.41	11/30/95	13:10	
	244.60	12/2/95	14:20	
	249.03	12/28/95	16:21	
	245.05	4/15/96	14:08	
	245.40	6/21/96	14:57	
	245.84	8/16/96	13:55	
	249.70	10/27/97	14:00	
	246.10	11/18/97	13:45	
	248.08	8/13/98	09:00	
Peterson	217.23	8/23/95	10:30	+1.3 ft., 6-in. casing
5960	213.45	11/27/95	15:35	
	213.03	11/29/95	12:11	
	213.06	11/30/95	13:29	
	213.59	12/2/95	14:10	
	213.70	12/28/95	16:08	
	214.67	4/15/96	14:23	
	217.37	6/21/96	15:30	
	218.11	8/16/96	14:30	
Oakley 6028	------	11/18/97	14:14	pump just turned off
	221.35	" " "	14:24	+1.5 ft.
	213.15	" " "	14:30	
	213.19	" " "	14:36	
Drake 6107	226.90	10/22/93	13:33	+1.7 ft., 6-in. casing
6175	237.90	11/18/97	15:00	+1.1 ft., 6-in. casing
6184	205.48	11/18/97	15:40	+3.3 ft.
Cade 6484	200.08	10/22/93	13:04	+1.4 ft.

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SEP 22 1998

Table of water-levels in domestic wells on Hollilynn Drive - continued

owner/ address	water-level (feet below datum)	Date	time	Datum/ casing diameter & comments
Aiton 6489	226.03	8/23/95	11:20	+1.6 ft., 6-in. casing
	224.90	11/27/95	16:01	
	225.04	12/2/95	14:40	
	224.97	12/28/95	16:34	
	226.11	4/15/96	14:39	
	226.40	6/21/96	16:14	
	226.88	5/1/97	12:38	
	234.00	10/27/97	14:20	pool was filled recently
Goldstien 6554	193.39	11/27/95	16:22	+1.4 ft. above ground
Vanpaepeghem 6674	208.74	8/23/95	12:00	+1.3 ft., 6-in. casing
Kissler 6639	310.61	8/23/95	12:37	+1.8 ft., 8-in. casing
Lacerta 6785	309.20	8/23/95	13:00	+1.4 ft., 6-in. casing
Olson 6850	204.66	8/23/95	13:40	+2.0 ft.,6-in. casing
Husky 7088	206.03	10/22/93	12:29	+1.6 ft., 6-in. casing
	206.29	8/23/95	14:05	
Johnson 7160	199.70	10/22/93	11:50	+1.5 ft., 6-in. casing
	202.30	8/23/95	14:30	
	202.81	6/21/96	16:32	

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United Water

SHEET _____ OF _____

BY Squires DATE 9-4-98 PROJECT _____ CONTACT _____

DESCRIPTION Phone conv. w/ Steve Lester UWA-WR WO# _____

362-4409

- Jack Beach - came in Sept 2 wed to IDWR.
  8440 S. Cole
- last few weeks UWID wells have been running this late.
- no problems in 30 years
  4 homes served by well
- Steve gave told Beach to call UWID.
- Steve asked me to contact Beach directly.

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SEP 22 1998

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

FAX TRANSMITTAL COVER SHEET

FAX # (208) 334-2348

DATE: _____

TO: ED SQUIRES
UWI
Fax 362-3858

FROM: Steve Lester

DOCUMENT DESCRIPTION: INFO re JACK BEACH (362-4409) per his 9/2/98 visit to Western - WS11 problems etc. that he thinks are related to ~~Intake~~ UWI WELLS for SE Boise pipeline.

TOTAL PAGES SENT: 02 + COVER SHEET

CONTACT: _____

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SEP 22 1998

AJ5809WP
No. A63-07690

IDAHO DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM PROFILE REPORT

DATE: 09/02/98
PAGE: 1

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM	USE PERIOD TO	DIVERSION RATE	DIVERSION VOLUME
C	JACK BEACH 8440 S COLE RD BOISE ID 83709 (208) 362-4409	09/16/1971	IRRIGATION	05-15	10-15	0.60 CFS	135.00 AFA
			DOMESTIC	01-01	12-31	0.06 CFS	1.80 AFA
				TOTAL DIVERSION:		0.66 CFS	136.80 AFA

Water Source: GROUNDWATER Tributary to: Stage: LICENSE

Point(s) of Diversion: T02N R02E S07 Lot02(SWNW) ADA County

Place of use Legal Description for: IRRIGATION

		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	SUM
02N	02E 7						02-30											30.0
																	TOTAL ACRES	30.0

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	
02N	02E 7						02-0											

POU County: ADA

Non-Irrigation Uses: D/4 HOMES W/LAWN

Other Rights: NONE

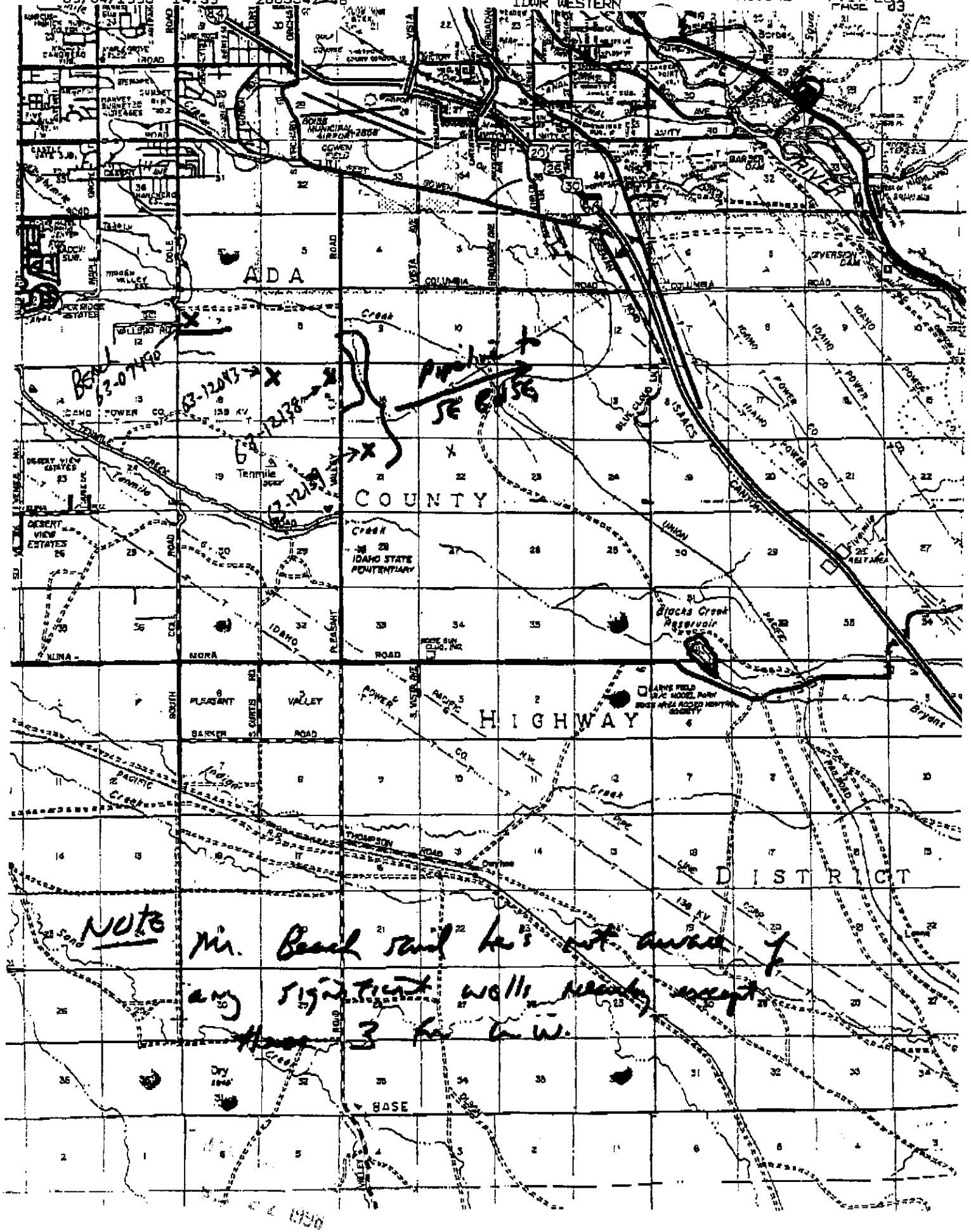
Remarks: GEN Domestic use is for 4 homes.

Dates: Exam Made Date: Verified Date: Objection Filed Date:

Misc: Water District Number: Field Inspection Flag:
Presumption Flag:

Serves 4 homes + 4 yards/gardens plus irrig. land

MODIFIED
SEP 22 1998


ADA
COUNTY
HIGHWAY
DISTRICT
Tenmile
Creek
Boise River
Blacks Creek Reservoir
IDAHO STATE PENITENTIARY
DESERT VIEW ESTATES
Dry Creek
BASE
Note Mr. Beach said he's put ... wells ... 3 ... W.

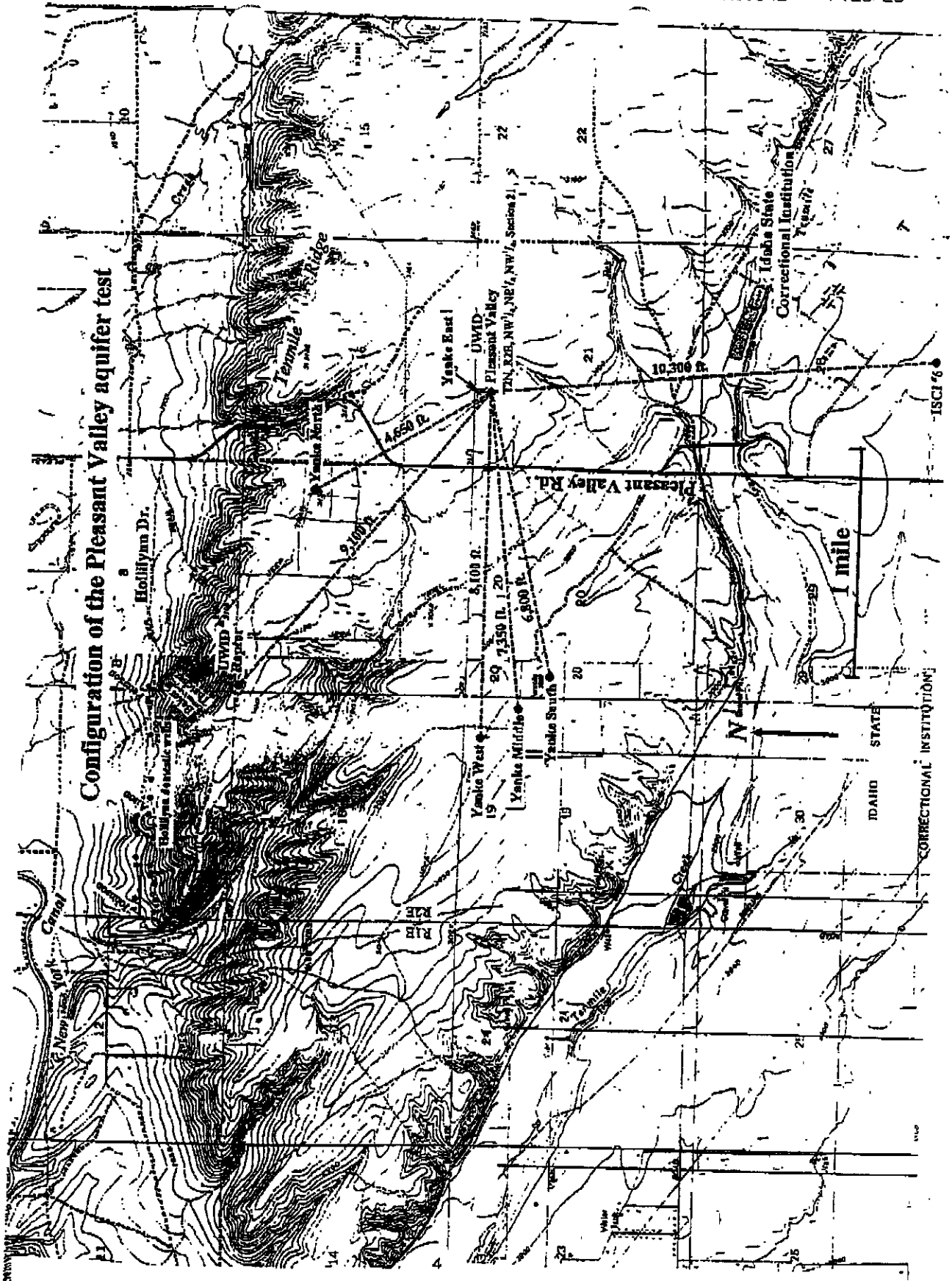


Figure 1. Map showing the location of wells monitored during water-level data collection for Groundwater Conditions and Aquifer Testing of the Tenmile Ridge Area of South Boise, Ada County, Idaho.

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SEP 22 1998

SEP. 8.1998 11:53AM UNITED WATER
SEP 22 1998
P.19/20

E TYPEWRITER OR ALL POINT PEN

Departme Water Administratio

WELL DRILLER'S REPOR

State law requires that this report be filed with the State Reclamation Engineer within 30 days after completion or abandonment of the well.

WELL OWNER

Name C. Beech

Address R. Cola Road

Owner's Permit No.

NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement

☐ Abandoned (describe method of abandoning)

PROPOSED USE

☒ Domestic ☐ Irrigation ☐ Test

☐ Municipal ☐ Industrial ☐ Stock

METHOD DRILLED

☐ Cable ☐ Rotary ☐ Dug ☐ Other

WELL CONSTRUCTION

Diameter of hole 10 inches Total depth 245 feet

Casing schedule: ☒ Steel ☐ Concrete ☐ Other

Thickness	Diameter	From	To
inches	10 inches	+1 feet	245 feet
inches	inches	feet	feet
inches	inches	feet	feet
inches	inches	feet	feet
inches	inches	feet	feet

Was a packer or seal used? ☐ Yes ☒ No

Perforated? ☐ Yes ☒ No

How perforated? ☐ Factory ☐ Knife ☐ Torch

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? ☐ Yes ☐ No To what depth 20 feet

Material used in seal ☐ Cement grout ☒ Puddling clay

7. WATER LEVEL

Static water level 165 feet below land surface

Flowing? ☐ Yes ☒ No G.P.M. flow

Temperature Quality

Artesian closed-in pressure p.s.i.

Controlled by ☐ Valve ☐ Cap ☐ Plug

8. WELL TEST DATA

☐ Pump ☒ Bailer ☐ Other

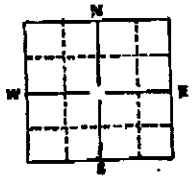
Discharge G.P.M.	Drawdown	Hours Pumped
40		2

9. LITHOLOGIC LOG

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
10	0	20	Dirt		
10	20	160	Sandy Dirt Gravel Cement		
10	160	245	Gravel		

6. LOCATION OF WELL

Sketch map location must agree with written location.



County

¼ ¼ Sec. T. N/S. R. E/W

10.

Work started Feb 72 finished Feb 72

11. DRILLER'S CERTIFICATION

This well was drilled under my supervision and this report is true to the best of my knowledge.

Driller's or Firm's Name Number

Address Boise Idaho

Signed By Date

USE ADDITIONAL SHEETS IF NECESSARY FORWARD THE WHITE, BLUE, AND PINK COPIES TO THE DEPARTMENT.

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OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM	USE PERIOD TO	DIVERSION RATE	DIVERSION VOLUME
C	UNITED WATER IDAHO PO BOX 7488 BOISE ID 83707-1488 (208) 362-1704	08/19/1994	MUNICIPAL	01/01	12/31	3.900 CFS TOTAL DIVERSION: 3.900 CFS	

Water Source: GROUNDWATER Tributary to: Stage: PERMIT

Point(s) of Diversion:				
T02N R02E	S17	SENE	NWNW	ADA County
	S21	NENW		ADA County
	S22	NWNE		ADA County

Pou County:

Other Water Rights with Same Point(s) of Diversion with Stage (Includes All Sources):
63-07046 63-12043 63-12138 63-12139 B63-12043 B63-12139

Conditions of Approval:

01M - 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.

004 - The issuance of this right does not grant any right-of-way
- or easement across the land of another.

Remarks: GEN Place of use is within the city limits of Boise and the surrounding area served by United Water Idaho.

Dates:
App. Received: 08/19/1994 Priority Date: 08/19/1994
Proof Due Date: 03/01/2000 Proof Made Date:
Exam Made Date: Exam Sent to S.O.:
Licensed Date:

Misc: Water District Number: Field Exam Fee:

Comments: Date: 08/23/1994 User-ID: STAYLOR Subject: Previously Operated Well.
This well was previously operated for irrigation purposes
under water right license #63-7359. Water has not been
produced from this well for irrigation purposes since 1985
and the water right (63-7359) has therefore been forfeited.

Audit: 09/03/98 SCURTIS

AMENDMENT OF PERMIT REVIEW

Review Date 9/4/98

PERMIT NO. 63-12138 **NAME** UWID

TYPE: (A) = AMENDED
B = CHANGE P/D
C = ADD P/D
D = CHANGE P/U
E = CHANGE N/U
F = CHANGE Per/U
G = OTHER
H = CHANGE P/D & + P/D
I = CHANGE P/D & P/U
J = ADD P/D & CHANGE P/U

AREA OF CONCERN: Boise Mor ___ GWMA Trust/Non-trust

PROOF OF B/U RECEIVED? Yes (No) **Due <6 months?** Yes (No)

GROUNDWATER:
Drilling Permit No. ___-___-___-____-___;
Drilled _____

Swan Falls Flag ____

Conditions of Approval: 01M, 004

Remarks/Comments P/U w/in city limits of Boise and surrounding service area of UWID.

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AUG 2 4 1998
WATER RESOURCES
WESTERN REGION

MEMORANDUM

TO: Norman C. Young, Administrator, Water Management Division

FROM: Phillip J. Rassier, Deputy Attorney General

RE: Applications for Amendment of United Water Idaho Permit Nos. 63-12043, 63-12138, and 63-12139

DATE: August 19, 1998

At your request, I have reviewed attorney Chris Meyer's letter of August 7, 1998, on behalf of United Water Idaho relating to the "Tenmile Ridge Water Rights." As described in Mr. Meyer's letter, ground water permit nos. 63-12043, 63-12138, 63-12139 were issued by the Department of Water Resources in 1993 and 1995 with "domestic use only" conditions in order to comply with the requirements of the Snake River Basin Moratorium then in effect. The Department formally lifted the moratorium in 1995, but has continued to hold most new applications for permit except where a strong public purpose is being served or where adequate mitigation or a non-consumptive water use is demonstrated.

On June 12, 1998, United Water filed applications to amend the referenced water right permits to remove the moratorium based conditions limiting the use of water to domestic purposes. The applications were advertised in accordance with the requirements of I.C. § 42-211 and no timely protests were filed. The Department may now approve the applications for amendment under the provisions of I.C. § 42-211, providing the change will not result in the diversion and use of more water than originally permitted; the rights of others will not be adversely affected by the change; and the change will not conflict with the local public interest.

The amendment of the permits as proposed by United Water will not change the municipal purpose of use, the authorized place of use, the point of diversion, or the authorized rate of diversion under the permits. The only change requested is removal of the conditions limiting the types of municipal uses that may be served with water diverted pursuant to the permits. Because the permits are still in the developmental stage, it is not necessary to consider the history of use under the permits as is commonly done when a fully perfected water right is transferred under the provisions of I.C. § 42-222. It, thus, appears that approval of the permit amendments as requested by United Water would be consistent with the decision criteria under I.C. § 42-211.

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AUG 0 7 1998
Department of Water Resources

GIVENS PURSLEY LLP

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Kenneth R. McClure
Cynthia A. Melillo
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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

August 7, 1998

Via Hand Delivery

Mr. Gary Spackman
Regional Manager
Western Regional Office
Idaho Department of Water Resources
2735 Airport Way
Boise, ID 83705-5082

Re: Tenmile Ridge Water Rights
United Water Idaho Application Nos. 63-12043, 63-12138, 63-12139

Dear Gary:

I am responding on behalf of United Water Idaho ("UWID") to your letter of July 21, 1998 to Ed Squires. Your letter addressed UWID's pending applications to amend the above-captioned permits in order to eliminate the "domestic" conditions imposed by the Department in response to the Snake River Basin Moratorium, which has since been lifted.[1]

---

[1]Condition No. 5 requires UWID not to provide more than 13,000 gallons per day to any individual home. This condition is academic with respect to domestic customers. To its knowledge, UWID has never supplied more than 13,000 gallons per day to any individual home. The more significant impact of Condition No. 5 is to prohibit UWID from serving nondomestic customers, such as Micron or the State Prison.

Condition No. 6 prohibits use of the water for "large projects such as parks, golf courses or sports activities fields." This condition has prevented UWID from using Tenmile Ridge water to serve the Columbia Village soccer fields.

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SEP 2 2 1998

You note correctly that UWID must demonstrate, under Idaho Code § 42-211, that approval of its applications for amendment of the Tenmile Ridge permits "would not result in the diversion and use of more water than originally permitted" and that "the rights of others will not be adversely affected." It is UWID's position that both these conditions are satisfied.

The conditions were understood to be temporary measures.

First, the domestic conditions were never understood to be permanent. Rather, they were a temporary accommodation agreed to by UWID in the context of a cooperative effort involving the Department. Let me briefly recap that history.

The Tenmile Ridge well field was commenced in response to water level declines in the Southeast Boise Ground Water Management Area. As part of a collective effort to solve management problems, UWID agreed, prior to the imposition of the Moratorium, to stop pumping its Oregon Trail and Gowen wells. This, in turn, entailed replacing that water with water from new wells along Tenmile Ridge. As these wells were drilled pursuant to this cooperative agreement, they were subjected to the Moratorium-based domestic conditions. UWID accepted these restrictions on the understanding that they were temporary measures to address a drought emergency. Likewise, the public was always made to understand that the Moratorium was temporary.

That drought emergency is now over, and conditions in the aquifer have allowed the Department to lift the Moratorium which gave rise to the domestic conditions. Indeed, we understand that the Department is now processing other applications for non-domestic water rights in the area. Consequently, UWID is entitled to have the conditions removed.

The conditions do not affect water quantity, and their removal will not increase diversions.

Second, UWID is seeking no change in the rate of flow at which water may be diverted nor in the total annual volume of water it may divert. (In fact, there is no annual volume associated with this municipal right.) Instead, UWID seeks solely to have lifted the two domestic conditions imposed by the Department.

The effect of the domestic conditions is not to restrict the quantity of water available under the permit. Indeed, the diversion rate on each of the permits remained

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SEP 2 2 1998

unchanged and is identical with that sought on each application for permit. Likewise, lifting the conditions will also have no impact on the quantity of water available under the permits. Regardless of the conditions, UWID is entitled to prove up the entire diversion rate allowed under the permit.

This conclusion is reinforced by considering the underlying purpose of the conditions. Unlike other conditions typically imposed by the Department, the domestic conditions were not aimed at protecting other users or limiting the impact of the right on the resource. Instead, they were intended to allow a particular class of water uses to escape the Moratorium, despite their impact on the aquifer. In an exercise of political judgment, the Department crafted the exception to mimick the statutory exemption for domestic use. But that did not have the effect of converting the rights to domestic rights. Indeed, each permit states plainly on its face that it is a municipal right, a statement which has put the public on notice from the outset.

The conditions increase costs and reduce efficiency, but conserve no water.

As described in my March 26, 1998 letter to Karl Dreher and Norm Young, as a result of the domestic conditions, water from Tenmile Ridge cannot be delivered directly to Micron, the prison, the soccer fields, or other nondomestic uses. Instead, industrial and commercial demand in that area must be met by delivering the Tenmile Ridge water down to the lower Gowen Reservoir (where it mixes with water from older wells at the lower service level) and then boosting (re-pumping) water from non-restricted water rights up to the higher service level for commercial and industrial use. In other words, the Department will not allow UWID to engage in an accounting process unless it first makes a physical connection to its larger integrated system, and then pumps back from that system. This exercise creates no new water, but contributes to higher costs and rates.

This arrangement has conserved no water, but has wasted a good deal of energy—with attendant environmental costs. And, as you can imagine, it imposes a substantial accounting burden. This approach to system operation can only be understood in the historical context of the need to fit an arbitrary exception to the Moratorium. Now that the Moratorium has been lifted, there can be no sound policy justification for maintaining these conditions.

Let me emphasize, UWID can and will continue to develop the Tenmile Ridge permits to the limits of their permitted capacity. UWID can and will do so regardless of whether the domestic conditions are lifted. Thus, whether UWID remains subject to the

MICROFILMED
SEP 2 2 1998

domestic conditions will have no impact one way or the other on other water users or on the resource itself. The only issue is whether UWID is allowed to manage water delivery efficiently.

UWID is entitled to prove up any time prior to the proof date.

In your letter, you requested "information regarding the quantity of water diverted from the four wells during the period of time the wells have been operating." You stated further that "[t]he information will be used to condition water rights to ensure that the use under the water rights will not be enlarged."

Your statement hints that UWID's entitlement under this permit may be capped based on a period of use prior to the date of proof. As it happens, UWID is using the four wells to their full capacity today. That measure, however, should not serve as a basis for establishing the quantity of the water right. For instance, additional wells might be drilled prior to proof. The law is quite clear that the holder of a permit has up until the date of proof to establish the quantity dimensions of a right. (Indeed, UWID might request an extension of the date of proof.) There may be any number of reasons why a particular permit is not pumped at full capacity prior to the time at which proof is made. Those reasons may have to do with production capacity and other physical limitations, financial considerations, and all manner of concerns unique to the holder. In sum, until the time that proof is made, the measure of a permitted right is the quantity stated on the permit.

Municipal water right holders are entitled to additional flexibility.

This right to use the entire proof period applies to all water permits. Additional and even more compelling considerations come into play where a municipal right is concerned, as is the case here. As a holder of a municipal right, UWID's proof focuses on system capacity. Its use records for any pre-proof period are simply not relevant to the analysis.

We would like to explore these issues with you further.

As you can imagine, the elimination of domestic conditions without sacrificing the integrity of its water rights is of the utmost importance to UWID. Given what is at stake, we would appreciate an opportunity to meet with you and any other Department officials who may be involved in resolving this principle.

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SEP 22 1998

As always, I appreciate your candor, your practical insights, and your willingness to work through a problem constructively. I look forward to hearing from you.

Best regards,

Christopher H. Meyer

cc: Norman C. Young
Steve Lester
Phillip J. Rassier, Esq.
Edward Squires

CHM:baf
S:\Clients\30\82\Corr\1998-08-07 CHM Ltr to G.Spackman - Re response to letter.wpd

MICROFILMED
SEP 2 2 1998

Form No. 211a
3/96

State of Idaho

Department of Water Resources

AMENDMENT ANALYSIS SHEET

Right Number 63-12138 WP File Name United Water

Initial Review By: Gary S Date 8/31/98

Applicant _____

Purpose of Amendment: ☐ Change point of diversion. ☐ Add diversion point(s)
☐ Increase amount. ☐ Change place of use. ☑ Other Remove restrictions prohibiting delivery for industrial, commercial & large irrigation.

CHECK:

☑ Description of amended point(s) of diversion
☑ Amount, nature and period of use. If increased, delay date of priority.
☑ Ownership of point of diversion and place of use.
☐ Map. N/A
☑ Signature (must be permit holder).
☑ Fee.
☑ Existing water rights from the same source, amended place of use.
☑ Right number(s) 63-12138, ~~63-12139~~ 63-12043
☑ 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.

FINAL REGIONAL PROCESSING REVIEW:

☑ Affidavit of publication received. ☑ Amendment published correctly
☐ Protest processed. N/A
☑ Comment letters to: SW Ada Alliance, SEBGWMA, Bill Wegener, Betty Bermenso l/o
☑ Copy for region file: Always include application, staff analysis sheet, legal notice
List other items to copy _____
☑ Approve.
☐ Deny.

also see info in 63-12043

Conditions None pursuant to Phil Rassier's memo dated 8/31/98

By Gary S Date 8/31/98

STATE OFFICE PROCESSING:

☐ Amendment correct and complete: By _____ Date _____
☐ Approved copy sent to applicant and to Region. By _____ Date _____

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

July 21, 1998

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

ED SQUIRES
UNITED WATER IDAHO
8248 W VICTORY RD
PO BOX 7488
BOISE ID 83707-1488

Re: Applications to Amend Permit Nos. 63-12043, 63-12138 & 63-12139 (Tenmile, Raptor, Pleasant & Pioneer)

Dear Ed:

As you know, notice of applications to amend water rights nos. 63-12043, 63-12138 & 63-12139 was published in the Idaho Code § 42-211 requires that the Idaho Department of Water Resources (IDWR) examine the application to determine whether approval would "result in the diversion and use of more water than originally permitted" and whether "the rights of others will . . . be adversely affected. . . ." The permits were originally conditioned that water could not be supplied for large irrigation, commercial, or industrial purposes. Removal of the conditions as proposed by the applications for amendment could result in diversion of a greater flow or volume of water from the wells described as points of diversion.

This letter requests information regarding the quantity of water diverted from the four wells during the period of time the wells have been operating. The information will be used to condition water rights to ensure that the use under the water rights will not be enlarged.

Sincerely,

Gary Spackman

GS:st

CC: Norm Young, IDWR
Steve Lester, IDWR, Western

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RECEIVED

JUL 0 1 1998

WATER RESOURCES
WESTERN REGION

The Idaho Statesman

P.O. BOX 40, BOISE, IDAHO 83707-0040

LEGAL ADVERTISING INVOICE

Account Number/Trans. #	Identification	Amount Due
047628	AMENDMENTS OF WATER RIGHTS	$91.44

Ordered By	P.O. Number	Rate	Run Dates
SUE TAYLOR		NT	JUNE 18, 25, 1998

IDAHO DEPT. OF WATER RESOURCES WEST
2735 AIRPORT WAY
BOISE, IDAHO 83705

Estimated Inches	Real Inches
# Affidavits	Legal Number
1	1600

LEGAL NOTICE

NOTICE OF APPLICATIONS FOR AMENDMENTS OF WATER RIGHTS

Notice is given that United Water Idaho, 8248 W. Victory Rd, P.O. Box 7488, Boise ID 83707-1488 has applied with the Department of Water Resources to amend three water right permits, proposing to eliminate conditions of the permits that limit use from four wells located in south Ada Co. approximately one to two miles north of the state prison.

RECORDED RIGHTS

Permit #63-12043, ground water, priority date 7/23/1993, for 4.46 cfs.

Permit #63-12138, ground water, priority date 8/19/1994, for 3.90 cfs.

Permit #63-12139, ground water, priority date 8/19/1994, for 4.90 cfs.

Each of the three permits authorizes diversion of water from four wells for limited municipal use within the boundaries of the United Water service area. Two of the wells are located in the N1/2 of S17, one in the NW1/4 of S21, and one in the NE1/4 of S22, all within T2N, R2E, Ada Co.

Each of the three permits prohibits irrigation of large projects such as parks, golf courses, or sports activity fields, and limits diversion to 13,000 gallons/day per dwelling. In addition, permit nos. 63-12138 & 63-12139 limit yard irrigation to one half acre per dwelling and limit nondomestic use to 2,500 gallons/day per each nondomestic activity.

PROPOSED AMENDMENTS

An application for amendment has been filed for each of the three permits seeking to remove the conditions limiting use to domestic use and to allow full municipal use. Complete approval of the proposed amendments would allow United Water to deliver water from the wells anywhere within its service area for irrigation, industrial, commercial, and other beneficial uses. Parks, golf courses, sports activity fields, and larger than one-half acre domestic lots could be irrigated from the wells. United Water could supply large industrial or commercial businesses with ground water from the wells.

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 July 6, 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. June 18,25, 1998

MICROFILMED 1600

SEP 2 2 1998

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 JUNE 18, 1998
and ending with the issue of JUNE 25, 1998

Janice Hildreth

STATE OF IDAHO)
) ss.
COUNTY OF ADA)

On this 25TH day of JUNE 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 MODIE NOTARY PUBLIC STATE OF IDAHO

Janie Modie

Notary Public for Idaho
Residing at: Boise, Idaho
My commission expires: 8/03

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 18, 1998

SEBGWMA ADVCOMM
C/O CATHERINE CHERTUDI
CITY OF BOISE
PO BOX 500
BOISE ID 83701-0500

Re: Application for Amendment of Water Right Permits Nos. 63-12043, 63-12138 and 63-12139 in the Name of the United Water Idaho (UWID)

Dear Interested Party:

Enclosed is a copy of the above-referenced application for amendment of a water right which may be of interest to you.

Please review the application and return any comments you might have.

A protest must be received with a $25.00 protest fee on or before July 6, 1998. If you do not wish to protest, informal comments should still be submitted by the end of the protest period.

Sincerely,

Gary Spackman

Gary Spackman

GS:st

Encl.

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SEP 2 2 1998

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 18, 1998

SOUTHWEST ADA COUNTY ALLIANCE
C/O JOHN C MCCREEDY
JIM JONES & ASSOC
1275 SHORELINE LN
BOISE ID 83702-6870

Re: Application for Amendment of Water Right Permits Nos. 63-12043, 63-12138 and 63-12139 in the Name of the United Water Idaho (UWID)

Dear Interested Party:

Enclosed is a copy of the above-referenced application for amendment of a water right which may be of interest to you.

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Sincerely,

Gary Spackman

Gary Spackman

GS:st

Encl.

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SEP 2 2 1998

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 18, 1998

BILL WEGENER
PO BOX 2075
DEL MAR CA 92014

Re: Application for Amendment of Water Right Permits Nos. 63-12043, 63-12138 and 63-12139 in the Name of the United Water Idaho (UWID)

Dear Interested Party:

Enclosed is a copy of the above-referenced application for amendment of a water right which may be of interest to you.

Please review the application and return any comments you might have.

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Sincerely,

Gary Spackman

GS:st

Encl.

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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

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

June 18, 1998

BETTY BERMENSOLO
1979 S CANONERO RD
BOISE ID 83709

Re: Application for Amendment of Water Right Permits Nos. 63-12043, 63-12138 and 63-12139 in the Name of the United Water Idaho (UWID)

Dear Interested Party:

Enclosed is a copy of the above-referenced application for amendment of a water right which may be of interest to you.

Please review the application and return any comments you might have.

A protest must be received with a $25.00 protest fee on or before July 6, 1998. If you do not wish to protest, informal comments should still be submitted by the end of the protest period.

Sincerely,

Gary Spackman

GS:st

Encl.

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SEP 2 2 1998

MAILING LISTS FOR:

63-12043
-12138
-12139
"SE BOISE PIPELINE WELLS" (United Water)

-SV 6/15/98

(1) Southwest Ada County Alliance
c/o Mr. John C McCreedy
Jim Jones & Associates
1275 Shoreline Ln.
Boise 83702-6870

(2) Betty Bermensolo
1970 S. Canonero Wy.
Boise 83709

(3) Bill Wegener
P.O. Box 2075
Del Mar, CA 92014

(4) SEBGWMA ADV. comm. *
c/o Catherine Cheetuli
City of Boise
P.O. Box 500
Boise 83701-0500

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SEP 22 1998

63-12296 State of ID Dept. of Corrections "

USE 1-3 Above

* ask her to distribute to rest of committee members

NOTICE OF APPLICATIONS FOR AMENDMENTS OF WATER RIGHTS

Notice is given that **United Water Idaho**, 8248 W. Victory Rd, P.O. Box 7488, Boise ID 83707-1488 has applied with the Department of Water Resources to amend three water right permits, proposing to eliminate conditions of the permits that limit use from four wells located in south Ada Co. approximately one to two miles north of the state prison.

RECORDED RIGHTS

Permit #63-12043, ground water, priority date 7/23/1993, for 4.46 cfs.
Permit #63-12138, ground water, priority date 8/19/1994, for 3.90 cfs.
Permit #63-12139, ground water, priority date 8/19/1994, for 4.90 cfs.

All three permits authorize diversion of water for municipal use within the boundaries of the United Water service area from four wells. Two of the wells are located in the N1/2 of S17, one in the NW1/4 of S21, and one in the NE1/4 of S22, all within T2N, R2E, Ada Co.

All three permits prohibit irrigation of large projects such as parks, golf courses, or sports activity fields, and limit diversion to 13,000 gallons/day per dwelling. In addition, permit nos. 63-12138 & 63-12139 limit yard irrigation to one half acre per dwelling and non-domestic use to 2,500 gallons/day per each nondomestic activity.

PROPOSED AMENDMENTS

An application for amendment has been filed for each of the three permits seeking to remove the domestic limitations. Full approval of the proposed amendments would allow United Water to deliver water from the wells anywhere within its service area for irrigation, industrial, commercial, and other beneficial uses. Parks, golf courses, sports activity fields, and larger than one-half acre domestic lots could be irrigated from the wells. United Water could supply large industrial or commercial businesses with ground water from the wells.

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 July 6, 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

Published in the Idaho Statesman on June 18 and 25, 1998

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SEP 2 2 1998

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

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

MEMORANDUM

To: Governor Philip E. Batt **Date:** August 3, 1998

From: Karl J. Dreher **cc:** Water Rights Files

Subject: Concerns of Mr. Bill Wegener re Amendments to Permits Held by United Water Constituent Affairs Tracking Memorandum No. 24477

This memorandum is provided in response to your request for a report regarding the concerns expressed by Mr. Bill Wegener in a letter addressed to you and to me which your office received on July 14, 1998. Mr. Wegener asks that the Department of Water Resources (the "Department") deny applications from United Water Idaho seeking to amend water right permits numbered 63-12043, 63-12138, and 63-12139. These three permits currently authorize diversion of ground water for limited municipal use through four wells known as the Raptor, Tenmile, Pleasant Valley, and Pioneer wells, which are all owned by United Water Idaho. The municipal use currently authorized excludes the irrigation of large parcels of land such as parks, golf courses, or sports activity fields, and limits diversions to 13,000 gallons per day per residential unit served. Additionally, permits numbered 63-12138 and 6312139 limit residential irrigation to one-half acre per dwelling unit and limit nondomestic use to 2,500 gallons per day per each nondomestic activity.

Background

United Water Idaho filed applications to amend the three water right permits on June 12, 1998. The applications for amendment sought to remove the limitations described above, which were placed on the permits when issued in 1993 (permit no. 63-12043) and 1995 (permit nos. 63-12138 & 63-12139). The permits were issued during a moratorium on granting permits to appropriate water for new, large consumptive uses. The moratorium was established as a result of the prolonged drought during the late 1980s and early 1990s. During the moratorium, new water right permits were issued only for domestic uses. Although the moratorium was lifted in 1995, new applications for permits to appropriate water have been generally held by the Department pending evaluation of the results from the first phase of the detailed hydrologic studies of the aquifer system underlying the Treasure Valley which are being conducted by the Department and various other entities.

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If granted, the amendments would allow water diverted under the water right permits to be used for irrigation of large municipal parcels of land as well as for industrial and commercial purposes requiring more than 2,500 gallons per day. Notice of the applications was published in the Idaho Statesman on June 18 and 25, 1998. As a courtesy, individual copies of the notice were also mailed to Mr. Wegener and others who have previously expressed concerns regarding the diversion of ground water from the wells operating under these water right permits. The notice provided until July 6, 1998, for individuals and organizations to file protests to the amendments with the Department, in accordance with § 42-211, Idaho Code. No protests were filed as of the close-of-business on July 6.

A few days after the July 6 protest date had past, Mr. Wegener contacted the Department objecting to the amendments. Neither Idaho's water allocation laws nor the Department's rules allow late protests to be accepted. Because Mr. Wegener failed to file a timely protest, there is no formal mechanism to address his concerns. However, regardless of whether or not timely protests are filed, the Department is required to determine whether a proposed amendment complies with the criteria of § 42-211, Idaho Code. Consequently, Mr. Wegener was informed that the Department would consider any information documenting his objections to the amendments and any other information that would support his concerns. Perhaps, Mr. Wegener's letter that was received on July 14, 1998, was intended to provide such information.

The Department is currently reviewing the applications from United Water Idaho to amend the three water right permits described above. In accordance with applicable law, the applications can only be approved if the following criteria are satisfied:

1. The proposed change will not result in the diversion and use of more water than authorized under the original permit;

2. The rights of others will not be adversely affected by the proposed change; and

3. The proposed change will not conflict with the local public interest.

Additional Background - Prior Correspondence Regarding Mr. Wegener's General Concerns

Mr. Wegener has previously expressed concerns that operation of United Water's Raptor, Tenmile, Pleasant Valley, and Pioneer wells, causes water levels to decline in his single-residence domestic well. Attached for your reference is a copy of a previous memorandum I prepared for you regarding Mr. Wegener's concerns dated February 7, 1997. This prior memorandum provides additional background information concerning Mr. Wegener's well, ground water conditions in the area of his well, and responses to questions posed by Mr. Wegener. The following summary of the memorandum is provided for your convenience:

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1. Mr. Wegener believes, but has not provided any supporting documentation, that water levels in his well have decreased about 100 feet since the well was constructed in the 1970s. Information available at the Department including driller's logs, water level measurements, and ground water studies, does not indicate that significant declines have occurred.

2. Mr. Wegener alleges that ground water withdrawals from wells south of the Boise Airport owned and operated by United Water Idaho, Iowa Beef Processors, and perhaps others, are lowering the water level in his well thereby preventing him from obtaining water under his earlier priority water right. Information available at the Department shows that water levels in wells located between Mr. Wegener's well and the wells he claims to be causing injury have not been affected.

3. Mr. Wegener's well appears to have been constructed to penetrate only a few feet below the static ground water level leaving no safety margin for normal seasonal water level changes or declines caused by pumping his own well.

Specific Issues in Mr. Wegener's Most Recent Letter

In the letter received July 14, Mr. Wegener states: "Current laws prohibit new large commercial wells or the diversion of existing well water to large commercial users." Although the moratorium established as a result of the drought in the late 1980s and early 1990s temporarily prevented approval of new permits to appropriate water for large consumptive uses, such uses have never been prohibited by any specific laws. Approval of new permits or amendments to existing permits authorizing such uses requires compliance with §§ 42-203A and 42-211, Idaho Code. While the processing of most applications has been delayed pending evaluation of the results from the first phase of the detailed hydrologic studies of the aquifer system underlying the Treasure Valley, applications for permits to appropriate water or to amend existing permits are being processed when the applicants indicate that the information required to evaluate the applications is available.

Mr. Wegener also states: "It is bad enough that United Water is already in violation of the existing moratorium by diverting existing domestic allocations to commercial users while simultaneously transferring Ten Mile [sic], Raptor, Pleasant Valley and Pioneer well water to augment those short falls - a blatant violation of the original intent of those wells!" The Department is not aware of any violation of the water right permits held by United Water Idaho. The permits allow diversion and use of water up to the full authorized diversion rate. United Water Idaho has maintained documentation accounting for water diverted from the Tenmile, Raptor, Pleasant Valley, and Pioneer wells which demonstrates water has been diverted and used in accordance with the limitations of the permits. Other water rights for wells owned by United Water Idaho which do not have these limitations are being used to supply the commercial and industrial users in the southeast Boise area.

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Since no timely protests to the applications for amendment filed by United Water Idaho were received, the Department granted United Water Idaho a temporary waiver of the permit limitations pending final action on the applications to amend the permits. This waiver was granted so that United Water Idaho did not have to construct a booster pumping station this summer to meet this year's peak demands. United Water Idaho has indicated that construction of the booster pumping station will not be necessary if the three permits are amended as requested.

Mr. Wegener requested to be notified of " application meetings" for the permit amendments so that he could be present at those meetings. In the absence of a timely protest, hearings will not be held on the applications for amendment, and there are no other public meetings provided for in the Department's procedures. As I have previously stated, Mr. Wegener has the opportunity of submitting information to the Department describing his concerns and providing supporting documentation for consideration by the Department as the applications to amend the permits are reviewed. United Water Idaho has also been asked to submit additional information documenting the quantity of water diverted from the Raptor, Tenmile, Pleasant Valley, and Pioneer wells. Once this information has been received and evaluated, a decision to approve or deny the applications will be made.

Enclosure - Memorandum dated February 7, 1997, w/o exhibits

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SEP 2 2 1998

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

MEMORANDUM

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

To: Governor Philip E. Batt **Date:** February 7, 1997

From: Karl J. Dreher **cc:** DEQ, SWIRO

Subject: Response to Bill Wegener Inquiry - Constituent Affairs Tracking Memo No. 18040

As requested by your office, I am providing this memorandum in response to a lengthy inquiry you received from Mr. Bill Wegener of Del Mar, California. Mr. Wegener claims that he and his wife own 80 acres of land which we understand to be located approximately 8 miles southeast of Kuna, Idaho just southwest of the intersection of South Curtis Road and Barker Road. The property has an appurtenant irrigation water right from wastewater and is served by a single domestic well. Mr. Wegener claims the domestic well has been impaired by declining water levels, and he alleges the declines are in part due to injury from municipal and commercial wells having junior priorities.

Summary of Prior Investigations Regarding Mr. Wegener's Concerns

Staff from the Department of Water Resources ("IDWR") have measured water levels in Mr. Wegener's well on several occasions, corresponded with him in writing, and verbally discussed the performance of his well with him a number of times over the past 18 months. Correspondence has also been exchanged between Mr. Wegener and United Water of Idaho, and Mr. & Mrs. Wegener previously wrote to you regarding this matter on May 5, 1995.

In response to the May 5 letter, IDWR staff measured the depth to water in the Wegener well on May 24, 1995, and compared the measured depth (309.54 ft) to extensive region-wide water level measurements made during the 1970s and again in 1994. The depth to water at the location of the Wegener well during the 1970s was estimated to be 305 ft, and in 1994 the depth was estimated to be 310 ft. Mr. Wegener was sent a copy of the field report for the May 24 measurements and the water surface elevation contour maps from the extensive measurements made in the 1970s and in 1994. The comparisons between the May 24 measurement and the region-wide measurements do not support Mr. Wegener's contention that water levels have dramatically declined.

The depth to water in the Wegener well was measured by United Water of Idaho on April 20, 1995, prior to the IDWR measurements in May of 1995. United Water measured the depth to water again on July 15, 1996. As reported by United Water, the latter measurements were made in response to statements by Mr. Wegener that he had contacted several attorneys about operation of United Water

SCANNED
SEP 22 1998

wells causing declining water levels in his well, and that he expected United Water to resolve the problems with his well at United Water's expense. IDWR staff also measured water depths in the Wegener well again on July 9 and July 19, 1996.

IDWR has thoroughly reviewed all available information and supplemented the available information with its own measurements of water levels in an attempt to determine the cause of the lack of water available at the Wegener well. Included were depth to water measurements in three private wells located within a ⅛-mile radius of the Wegener well and a monitoring well located 1-½ miles north of the Wegener well maintained by the U. S. Geological Survey ("USGS"). None of this information indicates that water levels in the vicinity of the Wegener well have significantly declined during the past 25 years. The only water level fluctuations that are evident are the seasonal, annual-cycle fluctuations of about 5 to 15 feet or more, which are characteristic in most wells throughout the Boise River Valley.

Based on this information, IDWR has concluded the following regarding the lack of water available at the Wegener well:

(1) There are no data documenting that ground water levels in the vicinity of the Wegener well have significantly declined during the past 25 years;

(2) There is no evidence that municipal or commercial wells, including those operated by United Water of Idaho and Iowa Beef Processors, are injuring the Wegener well;

(3) The Wegener well has probably not been drilled to an appropriate depth. The three private wells located within a ⅛-mile radius of the Wegener well are all drilled to depths 50 to 100 feet greater than the Wegener well and when queried, the owners did not report any problems with water availability;

(4) As of July 15, 1996, United Water measured the pump setting in the Wegener well to be 2-feet, 8-inches above the bottom of the well which is not sufficient to prevent sediment from being pumped with water, when water is available at the Wegener well; and

(5) Because the depth of the Wegener well is marginal, there is not a sufficient water-level-to-well-depth ratio to accommodate expected seasonal, annual-cycle fluctuations nor allow for reduced well productivity over time from silting, clogging, etc.

These findings have been reviewed with Mr. Wegener, and he has indicated he does not agree with at least (1) through (3) above based on his recollection that when his well was drilled in approximately 1970, there was "static water at 250 feet and approximately 100 feet of water above the pump" (excerpted from letter to you dated May 5, 1995). However, Mr. Wegener has not provided any documentation that would support or confirm his recollection.

MICROFILMED

SEP 2 2 1998

There is some possibility that the Wegener well was constructed into a confined or perched aquifer that is isolated from the regional aquifer system. This would provide an alternate explanation as to why the Wegener well may have responded differently than the other private wells within a ⅛-mile radius and the USGS monitoring well 1-½ miles to the north. However, such a scenario would not support interference from the United Water and Iowa Beef Processors wells. Instead, this would mean that use of the Wegener well has itself reduced the quantity of water available to the well, given the more limited potential for incidental recharge that would likely be available to a perched aquifer at this location.

Response to Mr. Wegener's List of Questions

With the foregoing as background, the following responses are provided for the portion of the 54 questions raised by Mr. Wegener, and submitted with his letter to you dated October 17, 1996, which pertain to IDWR or to myself. The responses are provided in the numerical order set forth by Mr. Wegener. Please note that I have not responded to questions 3 and 40.

1. *Approach with constituents* - As the Director for IDWR, I believe I am "open, up-front and available" to the people of Idaho. However, this is not because it's in my "best interest" or "to avoid litigation" but reflects my viewpoint that I serve in this capacity on behalf of the public.

2. *Well drilling moratoriums during last 10 years covering Ada County* - There have been 3 moratoriums. The first was established on May 15, 1992, and included all land in the drainage area tributary to the Snake River above Weiser. The moratorium applied to ground water as well as surface water. Water right permits existing on the date of the moratorium and domestic uses were exempt. The second moratorium was established on April 30, 1993. This moratorium modified the May 15, 1992, moratorium by dropping the drainage area tributary to the Snake River below King Hill, except for the Boise River Valley, from the area included under a moratorium. The third moratorium was established on May 3, 1995, and dropped the Boise River Valley from the area included under a moratorium. In addition to these moratoriums, a Ground Water Management Area for the low-temperature geothermal aquifer in the Boise area was established in June of 1987, and a Ground Water Management Area for the cold-water aquifer under Southeast Boise was established in October of 1994. Within a Ground Water Management Area, the development of ground water diversions for additional uses are prohibited from the designated aquifer, except for domestic wells, unless a management plan is developed to ensure that the water supply is sufficient and prior rights should not be injured. The Wegener well is not located in either Ground Water Management Area.

   Beyond the establishment of moritoriums and Ground Water Management Areas, IDWR has suspended the processing of new or pending applications for ground water diversions until after the initial results have been evaluated from the studies described in Attachment F to this memorandum.

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3. *Ten largest political contributors to Governor Phil Batt in last election* - Not applicable to IDWR.

4. *Number of wells lowered in Ada and Canyon Counties during last 10 years* - The number of wells lowered since 1988 in Ada and Canyon Counties, and within adjacent areas tributary to the Boise River, are summarized in the following table.

Year	Total Number of Wells Constructed Statewide	Total Number of Wells Deepened Statewide	Number of Wells Deepened in Boise River Valley
1988	2,761	149	13
1989	2,746	163	28
1990	3,400	228	28
1991	3,869	287	42
1992	5,527	538	118
1993	5,541	437	95
1994	6,211	320	48
1995	5,404	242	42
1996	4,925	110	21

5. *Linkage of aquifers in southwest Boise* - The different portions of the cold-water aquifer system throughout the Boise River Valley are generally interconnected or linked. However, the aquifer system is not like a simple "underground lake" where removal of water from one part of the "lake" would affect the water level of all of the "lake." The aquifer system consists of continuous and discontinuous layers or zones of differing orientations ranging from horizontal to vertical and which have different hydraulic transmissivities. This means that although the zones are generally interconnected or linked, the interconnection between zones and the ability for water movement through and between zones is highly variable. Additionally, there can be aquifers that are confined or separated from the regional aquifer system, such as perched aquifers.

6. *Aquifer recharge in Ada & Canyon Counties* - The cold-water aquifer system in the Boise River Valley is not a finite body of water because it is recharged from: (1) deep infiltration resulting from agricultural irrigation using surface water supplies; (2) seepage from rivers and canals used to convey surface water supplies; (3) tributary underflow; (4) precipitation; and (5) other relatively minor sources. The largest amount of recharge occurs from conveyance and application of surface water supplies for irrigation of agricultural lands. However, there is very little application of surface water supplies for irrigation in the area of the Wegener well.

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Currently, there is no program for managing recharge in the Boise River Valley that would increase recharge to the cold-water aquifer. However, Micron is evaluating the potential for injecting water treated to safe drinking water standards into the aquifer as mitigation or storage for future ground water withdrawals. Additionally, the City of Boise has submitted applications to permit injection wells for recharging the low-temperature geothermal aquifer using water discharged from heat exchangers using geothermal water. Recharge of the low-temperature geothermal aquifer using geothermal water discharged from heat exchangers is currently being perfomed by the Veterans Administration and the State of Idaho Building Services.

7. *When declining water levels were first noticed in the Boise Valley* - If water levels had been monitored in the very first, non-artesian, cold-water well drilled in the Boise Valley, fluctuations would have been observed that could have been interpreted as declines. Overall, average water levels throughout the Boise Valley cold-water aquifer system have not declined significantly. However, there are specific areas where average water levels have declined, some of which have been significant, and there are specific areas where average water levels have risen, some of which have also been significant. In fact, the ground water levels in areas generally north of the New York Canal and south of the Boise River are as much as 100 feet higher now than in 1909 when construction of the New York Canal was completed because of the recharge from irrigation, discussed in response to question 6. Changes in ground water levels since the 1970s are portrayed on the graphic provided as Attachment A to this memorandum.

8. *Approvals for United Water, Micron, and Iowa Beef Processors (IBP) wells* - Profile reports for every water right established or approved at the present time for United Water Idaho (previously Boise Water Corporation), Micron, and Iowa Beef Processors are provided as Attachment B to this memorandum. The reports are sorted by water right holder and the water right number, which is printed in the upper left-hand corner of each page as "63-____". The priority date for the water right is printed near the center and at the top of the first page of the report for each water right. The authorized diversion rate is printed near the right side and at the top of the first page of the report for each water right in "cfs" (cubic feet per second). The diversion rate can be converted to "gallons per minute" by simply multiplying the diversion rate in "cfs" by 448.83 (a constant conversion factor). The source of water is listed on the left side of the first page of the report for each water right. Although only information about water rights for ground water uses were requested, the water rights reported in Attachment B include water rights for both surface water and ground water. If IDWR issued the water right as a result of its administrative process, this information will appear near the end of each report. The process currently used to authorize ground water withdrawals or diversions is either the judicial process of obtaining a court decree or the administrative process of obtaining a permit to appropriate water followed by a water right license. Prior to the mandatory requirement to obtain a permit and license established by the legislature in 1963 for ground water diversions (except for domestic uses), and in 1971 for surface water diversions, a water right could be established merely by appropriation. Consequently, earlier water rights do not necessarily have an "approval date".

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Information regarding the "depth to standing water" for each of the wells is not readily available. If a well log was filed with IDWR at the time a well was drilled, the driller's report which would include the standing water depth is available for manual review on microfiche. If Mr. Wegener wants to obtain this information, the microfiche records are available for his inspection at IDWR offices during business hours. Alternatively, Mr. Wegener could send someone on his behalf to the IDWR offices to research this information. If Mr. Wegener wants IDWR to perform this research for him, there is a charge of $25 per hour after the first hour.

To monitor current conditions, IDWR does not record water levels in every well constructed throughout the Boise Valley. Instead, IDWR and the USGS operate a cooperative program to monitor water levels in representative wells throughout the valley. A copy of a current ground water elevation contour map based on these measurements is provided as Attachment C to this memorandum. A general understanding of the current water levels associated with any ground water diversion reported in Attachment B can be obtained by noting the township, range, and section for the point of diversion listed below the water source in the report for the water right of interest. This location can be approximately identified on the ground water elevation contour map in Attachment C from which a ground water elevation can be estimated. To estimate depth to water at the same location, the location for the point of diversion can be approximately identified on the depth-to-ground-water contour map in Attachment D. To assist in identifying the approximate location of a particular section within a given township and range, a layout of the sections by number for any given township and range is provided at the end of Attachment C.

9. *Protection of senior water rights from interfering junior rights* - Article XV, Section 3, of Idaho's Constitution provides that "Priority of appropriation shall give the better right as between those using the water ..." Idaho's statutes and IDWR's rules are consistent with this constitutional provision. However, neither the constitution nor the laws shift the burden from the water right holder to IDWR or the state to defend the property holder's rights. If the holder of a senior ground water right believes the exercise of one or more junior ground water rights are interfering or otherwise causing him injury, the senior holder has the burden to bring action against the holders of the junior rights and to show injury. The action can be brought before a court or before IDWR following the procedures set forth in IDWR's "Rules for Conjunctive Management of Surface and Ground Water Resources," which are provided as Attachment E to this memorandum.

10. *Equal protection of large and small water rights* - Both large and small water rights holders are protected equally under Idaho law. However, holders of small domestic or small stock water rights, as defined in §42-211, Idaho Code, are exempt from curtailment resulting from a delivery call under IDWR's conjunctive management rules regardless of priority, except when such delivery call is from a senior holder of another small domestic or small stock water right.

11. *Actions to maintain clean and safe ground water* - The state adopted the "Idaho Ground Water Quality Plan" in June of 1992 to maintain and protect the existing high quality of the state's ground water resources. Summarizing state agency activities under the plan, IDWR provides

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ground water protection through the licensing of well drillers, establishment of well construction standards, injection well permitting, and statewide ground water quality monitoring. The Idaho Division of Environmental Quality (DEQ) oversees cleanup of petroleum and hazardous materials releases. In addition, DEQ in collaboration with a diverse, multi-interest task group developed specific regulations for protecting clean ground water and cleaning up contaminated ground water which will be brought before the Idaho Legislature for approval this legislative session. Another state agency, the Idaho Department of Agriculture, maintains programs that regulate the management of animal wastes and pesticide application, storage, and handling.

12. *Number of citations issued during past 10 years for contaminating the Boise Valley aquifer* - Most ground water contamination identified in the Boise Valley is the result of historic land use practices that although widely accepted, did not take into consideration the possibility of degrading ground water quality (e.g., inadequate maintenance of petroleum underground storage tanks). In almost all cases of identified ground water contamination in the Boise Valley, the responsible individual or company did not intentionally cause the contamination. On this basis, DEQ promotes a policy of seeking cooperative remedies with individuals or companies whose activities are found to be adversely impacting the quality of ground water. The Boise regional office of DEQ oversees the cleanup of hundreds of petroleum underground storage tank releases. DEQ is also requiring investigation and cleanup of approximately six sites in Boise and Nampa with industrial solvent contamination. Many other activities, such as the inspection of facilities that generate hazardous wastes, are aimed at preventing ground water contamination. Records related to DEQ's oversight of actions at contaminated sites are available for public inspection at the Boise regional office of DEQ.

13. *Mitigation of declining water levels in the Boise Valley* - As described in response to question 7, overall average water levels throughout the Boise Valley aquifer system have not declined significantly. However, there are specific areas where average water levels have declined, some of which have been significant. To determine appropriate future management strategies for these areas, and for other purposes, IDWR together with five other government organizations and United Water Idaho are conducting an intensive evaluation known as the "Treasure Valley Hydrologic Project." This project is described in Attachment F.

14. *Number of wells approved in the Boise Valley since water tables started to decline* - See response to question 7.

15. *Reflection of Governor Batt's ideologies concerning water decisions* - The responsibilities and actions of IDWR and its director are not based on "idealogies". Rather, the responsibilities of IDWR and its director are set forth in Idaho laws which are enacted by the legislature and signed into law by the Governor.

16. *State program to ameliorate Idaho water users whose wells go dry* - During the recent drought of the early 1990s, the U. S. Bureau of Reclamation provided drought relief funds to the state that were used to construct supplemental wells to supply irrigation water and deepen existing

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wells, including domestic wells. However, funds are no longer available under that program. Absent such a federally-funded program, no other program exists at the state level, and providing such a program using state funds is not an appropriate role for the state.

17. *Should such a program be a function of IDWR?*
See response to question 16.

18. *Effect of heavy pumping from one aquifer on adjoining aquifers* - Pumping from one portion of an aquifer system can affect adjoining portions of the system depending on the extent that aquifer zones allow water flow (see response to question 5). Pumping from an aquifer that is confined from adjoining aquifers has little, if any, effect on the adjoining aquifers.

19. *Is the portion of the aquifer system under Southwest Ada County recharged from water sources to the Northeast?*
Yes.

20. *Enjoining or curtailing the use of junior water rights that impact senior water rights* - All water right holders who exercise their rights by diverting from a common source can "impact" other water right holders diverting from the same source. However, "impact" does not necessarily constitute "injury". To the extent holders of senior water rights are injured by holders of one or more junior water rights, the recourse provided for the holders of senior water rights is described in response to question 9.

21. *Monitoring of discharge from Micron* - Much of the waste water from Micron's operations is treated and recycled for plant operations. Some of the remaining waste water is conveyed via closed piping to the sewer system owned and operated by the City of Boise. The City of Boise treats the waste water, along with municipal waste, and discharges the treated effluent to the Boise River. Discharge from Boise's sewage treatment plant is authorized under a National Pollution Discharge Elimination System (NPDES) permit issued by the U. S. Environmental Agency (EPA). The plant effluent is monitored by EPA, not the State of Idaho.

Micron also has a Waste Land Application Permit (WLAP) issued by DEQ to land apply treated effluent. The WLAP was renewed on November 27, 1995, and will expire December 31, 1997. Micron has implemented additional water purification/recycling processes and intends to phase out land application of treated effluent by the end of 1997. The current WLAP does not require monitoring of waste water for metals, but does require ground water monitoring for iron. Data from this monitoring effort are expected to be available in the near future.

22. *Nitrate/nitrite readings from waste water discharged from Iowa Beef Processors* - Waste water from Iowa Beef Processors operations is not discharged to surface or ground water, but is land applied under a WLAP issued by DEQ, which is currently being considered for renewal. During 1995, the average concentration of nitrogen reported was 104.7 mg/l based on a loading of 740 pounds Total Kjeldahl Nitrogen plus nitrate (TKN + NO_3) per acre over a total area of 325 acres.

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23. *Does IDWR maximize water resource development at the expense of senior water rights holders?*
No.

24. *Number of water rights holders (pumpers) IDWR has enjoined from use because they may be depleting or impacting other users* - There is no basis in the Idaho Constitution or Idaho laws for IDWR to curtail an authorized water diversion because it ***may*** have an impact on other users. Within an organized water district, such as the Big Lost River water district, ground water diversions are subject to regulation by a water master who distributes water under the supervision of IDWR. During times of shortage, the water master curtails junior ground water diversions which do not provide mitigation to offset inury to senior surface and ground water rights.

25. *Is the Boise Valley aquifer a finite body of water?*
No. See response to question 6.

26. *Has recharge sustained the Boise Valley aquifer over the last 5 to 10 years?*
Generally, yes.

27. *Mitigation by IDWR for water perk* (sic) *loss in the Boise Valley (recapture of surplus loss down the Boise River)* - Question too vague to answer responsively.

28. *Is Governor Batt aware of IDWR policy?* State water policy is shaped by the Idaho Constitution, legislative enactment of statutes, the State Water Plan formulated by the Idaho Water Resource Board, and the executive branch of government. IDWR does not develop policy outside of this framework.

29. *Can a perched aquifer be depleted or impacted more quickly than a deep neighboring aquifer?*
Yes.

30. *Locations where water is being diverted and the purposes for which the water is used from the United Water and Micron wells located south of the Boise Airport* - Water right profile reports are provided in Attachment B for all water rights held by United Water and Micron, as described in response to question 8. There are no wells owned or operated by Micron south of the Boise Airport. The three United Water wells about which Mr. Wegener may be requesting information have water right numbers 63-12043, 63-12138, and 63-12139. The information requested by Mr. Wegener can be found in the water right profile reports for these particular rights. The place of use where water is being diverted for these three water rights is described under "Remarks" about halfway down the first page of the report for each water right. The place of use is described in general terms since all three of the wells diverting water under the respective water rights are connected to United Water's distribution system which provides water to customers throughout United Water's service area. The purposes for which the water is used is set forth near the top of the first page of the report for each water right under "WATER USE."

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31. *Reason for drop in water levels in the Wegener well during the summer of 1996* - All of the available water measurement data indicate that the average ground water levels associated with the regional Boise Valley aquifer system at the location of the Wegener well have not declined significantly during the past 25 years. Therefore, the most likely reason for the drop in water levels in the Wegener well during the summer of 1996 is that the Wegener well is not constructed deep enough to provide a sufficient water-level-to-well-depth ratio to accomodate expected seasonal, annual-cycle fluctuations and allow for reduced well productivity over time because of silting, clogging, etc. Alternatively, the Wegener well may be constructed into a perched aquifer above the regional Boise Valley aquifer and may not be deep enough to divert from the regional aquifer.

32. *Existence of confidentiality agreements between United Water or Micron and other water users south of the Boise Airport* - We do not know of any such agreements.

33. *If the Wegener well terminates in a perched aquifer, would declining water levels be more likely than for wells terminating in the regional aquifer?*
    Yes, unless there is sufficient local recharge.

34. *If the Wegener well terminates in a perched aquifer, would the rate of recharge be slower with increased pumping in the area?*
    No, the rate of recharge is not directly affected by increased pumping.

35. *Grants, emergency aid, and other forms of financial assistance available to individuals who experience well failures* - There is no program for financial assistance available from the State of Idaho. We have not researched other sources for financial assistance that may be available. However, there are programs that provide below market-rate loans for water supply facilities through the Rural Development Program of the U. S. Department of Agriculture (formerly, the Farmers Home Administration) for which Mr. Wegener may qualify.

36. *Emergency federal or state aid to assist with the numerous well failures throughout the valley* - There have not been "numerous well failures throughout the valley." It would also be incorrect to assume that the need to reconstruct a well to a deeper level constitutes a well failure. Domestic wells, in particular, have often been constructed to inadequate depths, and such inadequacies should not be characterized as "well failures."

37. *Adequacy of current application process and procedures for notifying existing water users about new applications to appropriate water* - The existing application process and procedures to provide notification about new applications to appropriate water are adequate to allow for objection and protest from all surrounding water users. In addition to publishing notice of new applications in appropriate newspapers, interested water users can subscribe at no cost to a weekly report which lists all new applications received by IDWR. Not only can those who live out of the area subscribe to the Idaho Statesman, this latter provision provides for notification to those who don't subscribe to the Statesman.

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38. *Qualifications to serve as Director of IDWR* - I have a Bachelor of Science Degree and a Master of Science Degree in Civil Engineering from Colorado State University. I am a licensed professional civil engineer in both Idaho and Colorado. I have nearly 25 years of experience in the public and private sectors covering a wide spectrum of water resource engineering and management activities involving surface and ground water resources and including water rights evaluation and litigation, water delivery and distribution, water treatment, planning, agricultural engineering, structural engineering, geotechnical engineering, project management, contract administration, and management of personnel.

39. *Are you familiar with the Parker v. Wallentine court decision?* Yes.

40. *Itemization of all contributions received by Governor Batt and the Idaho Republican Party which originated from United Water Corp., Micron Technology, J. R. Simplot, and Simplot controlled organizations or subsidiaries* - Not applicable to IDWR.

41. *How far does the water level at the Wegener well have to fall before IDWR will intercede?* As stated previously, all of the available water measurement data indicate that the average ground water levels associated with the regional Boise Valley aquifer system at the location of the Wegener well have not declined significantly during the past 25 years. Consequently, there is presently no basis for IDWR intervention. If Mr. Wegener disagrees with this determination, his recourse is described in response to question 9.

42. *Annual budget for IDWR* - IDWR's budget for fiscal year 1997, which began July 1, 1996, is $15,325,100.

43. *Adequacy of budget to protect all water users* - See response to question 9.

44. *Is the drought which affected the Bose Valley several years ago over?*
Yes, but future drought periods are inevitable.

45. *Are all water users, both small and large, given the same consideration by IDWR?*
Yes, see response to question 10.

46. *Best interest of the IDWR Director to be open, up-front, and available to avoid litigation* -
See response to question 1.

47. *Repository of water information and regulations at IDWR for the use and benefit of all state water users* - IDWR is not primarily a repository of water information and regulations. However, IDWR does maintain data bases of water information and regulations that are accessible and can be used by the public. Such information is available for examination and copying in accordance with §§9-338 and 42-221, Idaho Code. In addition, IDWR maintains

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the Environmental Data Management System which includes state-wide water quality data that can accessed by via the Internet at:

http://www.idwr.state.id.us/idwr/planpol/techserv/gwmon/edms/edmshome.html

48. *Gifts received by the Director of IDWR from United Water, Micron, J. R. Simplot Industries, or any of their agents* - I have not received any gifts from United Water, Micron, J. R. Simplot Industries, or any of their agents.

49. *Special treatment of United Water, Micron, J. R. Simplot Industries, or any of their agents* - I am not aware of any instance where United Water, Micron, J. R. Simplot Industries, or any of their agents ever received or asked for special treatment.

50. *Meaning of "'a race to the bottom' is unacceptable" in Idaho water codes* -
This terminology is not used in Idaho statutes.

51. *Are we aware of the need that Micron has for pure water at its facilities?*
Yes.

52. *Is ground water always on the move and sometimes at a rate of only a few inches per year?* Yes, generally, but the rate at which water travels through an aquifer would normally be much greater than "a few inches per year."

53. *If water levels continue to decline, will large junior water claims be enjoined if they are culpable?* Overall, average water levels throughout the Boise Valley cold-water aquifer system have not declined significantly during the past 25 years. Also, see response to question 9.

54. *What if the extent of the effects of large water users in south Ada County are unknown because there are significant delays — what then?* This scenario is hypothetical and not realistic. See response to question 13.

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JUL 13 1998
Department of Water Resources

Bill & Kim Wegener
P.O. BOX 16476
Boise, Idaho 83715
(208) 364-2906

Philip E. Batt
Karl J Dreher

Please do not allow united water to amend permit # 63-12138. Current laws prohibit new large commercial wells or the diversion of existing well water to large commercial users. It is bad enough that united water is already in violation of the existing moratorium by diverting existing domestic allocations to commercial users while simultaneously transferring tenmile, Raptor, Pleasant valley and Pioneer well water to augment these short falls - a blatant violation of the original intent of those wells.

I wish to be present during the application meetings for permits #'s 63-12043, 63-12138, and 63-12139.

Please notify me

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Bill Wegener

MAILING LISTS FOR:

63-12043
-12138
-12139
} "SE BOISE PIPELINE WELLS" (United Water)

-SV 6/15/98

(1) Southwest Ada County Alliance
c/o Mr. John C McCreedy
Jim Jones & Associates
1275 Shoreline Ln.
Boise 83702-6870

(2) Betty Bermensolo
1970 S. Canonero Wy.
Boise 83709

(3) Bill Wegener
P.O. Box 2075
Del Mar, CA 92014

(4) SEBGWMA Adv. comm. *
c/o Catherine Cheetuli
City of Boise
P.O. Box 500
Boise 83701-0500

63-12296 " State of ID Dept. of Corrections

(USE 1-3 Above)

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* ask her to distribute to rest of committee members

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

November 12, 1997

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

UNITED WATER IDAHO INC
8248 W VICTORY RD
BOISE ID 83709

RE: WATER RIGHT NOS. 63-12043, 63-12138 and 63-12139

Dear Permit Holder:

The Department of Water Resources (IDWR) has issued the enclosed Amendments of Permit approving your applications to amend the water rights referenced above. Please be sure to review every element of the Amendments of Permit, including the conditions of approval and remarks.

The Amendments of Permit are **preliminary orders** issued by IDWR pursuant to section 67-5243, Idaho Code. **They can and will become final orders 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.**

If you have any questions, please call me at 208-327-7946.

Sincerely,

Shelley Watte Keen

Shelley W. Keen
Water Rights Supervisor

SK:klt

Enclosure

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DEC 10 1997

CERTIFICATE OF MAILING

I hereby certify that on the **12th** day of **November, 1997**, I mailed a true and correct copy, postage prepaid, of the foregoing **PRELIMINARY ORDERS (Approved Amendments of Permit)** to the person(s) listed below:

Water Right Nos. 63-12043, 63-12138, and 63-12139

UNITED WATER IDAHO INC
8248 W VICTORY RD
BOISE ID 83709

Shelley W. Keen
Water Rights Supervisor

DEC 10 1997

Re: United Water Idaho's officers/partners

To Whom This May Concern:

Please find below a list of the officers and/or partners of United Water Idaho as required by Water Allocation Rule 035.03.b.i.

President	William C. Linam	8248 W. Victory Rd Boise, Idaho 83709
Vice President	John J. Turner	200 Old Hook Rd. Harrington Park, NJ 07640
	Benjamin M. Hepler	8248 W. Victory Rd. Boise, Idaho 83709
Treasurer	John J. Turner	200 Old Hook Rd. Harrington Park, NJ 07640
Secretary	Allen D. Shakley	200 Old Hook Rd. Harrington Park, NJ 07640
Assist. Secretary	Winifred L. Humes	200 Old Hook Rd. Harrington Park, NJ 07640
	Carl W. Castleberry	8248 W. Victory Rd. Boise, Idaho 83709

If you have any more questions, or need any further information, please do not hesitate to contact me at: 208-362-7332.

Sincerely,

UNITED WATER IDAHO

Ed Squires
Company Hydrogeologist

ES:kmr
r:\ed\idwr\uwofcrs.doc

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DEC 10 1997

FO . . . 211a
3/96

Amendment — STATEWIDE ADV
per Gary Spackman — Copies to attached
8/10/97 Ada Cty only list

State of Idaho

Department of Water Resources

AMENDMENT ANALYSIS SHEET

Right Number 63-12043 -12138 -12139 WP File Name AMEND-ADV. UNITED

Initial Review By: [illegible] Date 8/10/97

Applicant United

Purpose of Amendment: ☑ Change point of diversion. ☐ Add diversion point(s)
☐ Increase amount. ☐ Change place of use. ☐ Other _____

CHECK:
63-12138 POD correction verified by Preston Land Surveyors
☑ Description of amended point(s) of diversion
☑ Amount, nature and period of use. If increased, delay date of priority.
☑ Ownership of point of diversion and place of use. explanation of ownership
☑ Map.
☑ Signature (must be permit holder).
☑ Fee. paid $200 – owed $150 – refunded $50 refund 9/10/97
☑ Existing water rights from the same source, amended place of use.
☐ Right number(s) N/A
☑ 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.

FINAL REGIONAL PROCESSING REVIEW:
☑ Affidavit of publication received. ☑ Amendment published correctly
☐ Protest processed.
☐ Comment letters to: _____
☐ Copy for region file: Always include application, staff analysis sheet, legal notice
List other items to copy _____
☑ Approve.
☐ Deny.

Conditions Place of use is within the service boundary of United Water Idaho as certified by the Idaho Public Utilities Commission. (Replaces prior condition for POU in City of Boise) 022, 070, 071, 075 – also other conditions from prior approval.

By Gary S Date 11/3/97

STATE OFFICE PROCESSING:
☐ Amendment correct and complete: By _____ Date _____
☐ Approved copy sent to applicant and to Region. By _____ Date _____

UnitedWater

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WATER RESOURCES
WESTERN REGION

United Water Idaho
8248 West Victory Road
PO Box 7488
Boise, ID 83707-1488
telephone 208-362-1300
facsimile 208-362-1479

Mr. Gary Spackman
Manager, Western Regional Office
Idaho Department of Water Resources
2735 Airport Way
Boise, ID 83705

September 4, 1997

Subject: Application For Ammendment to Permits for United Water Idaho's south Boise wells.

Dear Gary:

Enclosed for filing is United Water Idaho's (UWID) Application For Ammendment of a Permit to: 1) add a point of diversion to the permissible points of diversion for the three water rights subject to this transfer, 2) to list all four wells as points of diversion for each of the three water rights subject to this transfer (without increasing the overall rate of diversion under these rights), and 3) to unify the Place of Use for these water rights so that they conform with Idaho's Municipal Water Rights Act, Idaho Code 42-202, 42-202B, 42-217, 42-219, and 42-222. After the transfer, each of the four wells will serve as an alternate point of diversion for the other three. The addition of another point of diversion is necessary because two of the existing three wells do not have the productive capacity planned for prior to drilling, completion, and testing. The water rights are tabulated below with information pertinent to this transfer.

Water Right No.	Well Name	Priority Date	Location	Diversion Rate	Place of Use
63-12043	Raptor	7/23/1993	T2N, R2E, Sec 17, NW,NW,NW 1/4	4.46 cfs	"Within the city limits of Boise and surrounding area served by Boise Water Corporation"
63-12138	Tenmile	8/9/1994	T2N, R2E, Sec 17, NE,SE,NE 1/4	3.90 cfs	"Within the city limits of Boise"
63-12139	Pleasant Valley	8/19/94	T2N, R2E, Sec. 21 NW,NE,NW	4.9 cfs	"Within the City Limits of Boise"
	Proposed		T2N, R2E, Sec. 22 Nw, NE 1/4		

The Place of Use in this Application is UWID's service area, including future changes in such area. This service area is established, and changed from time-to-time, by order of the Idaho Public Utilities Commission. As the community and surrounding areas grow, and demand for municipal water supplies increases, additional changes will be made to UWID's service area. UWID is a "municipal provider" as defined in the Idaho Code, and is entitled to hold water rights whose place of use is a changing service area, I.C. 42-202B(2) and 42-219.

Please do not hesitate to contact me if you have questions aboutv this application or if there is additional information which we may supply.

Sincerely,

Ed Squires

MICROFILMED
DEC 10 1997

NOTICE OF AMENDED WATER RIGHT PERMITS

Notice is given that UNITED WATER IDAHO (UWID) of PO Box 7488, Boise ID 83707-1488, has applied to the Department of Water Resources to change to Point of Diversion and Place of Use for three ground water municipal permits recorded as follows in T2N R2E Ada County:

PERMIT NUMBER	PRIORITY	AMOUNT (cfs)	DIVERSION
63-12043	7/23/1993	4.46	NWNW S17
63-12138	8/19/1994	3.90	NENE S17
63-12139	8/19/1994	4.90	NENW S21

Total amount of water is 13.26 cfs. Place of use for the three rights is within the city limits of Boise and surrounding service area.

PROPOSED AMENDMENT FOR ALL RIGHTS

Add a new well in NWNE S22. The new well and the three existing wells will all be described as points of diversion by permit nos. 63-12043, 63-12138, and 63-12139. The location of the well presently described by permit no. 63-12138 in the NENE S17 will be corrected to the NESENE S17. The wells will serve the current and future UWID's service area in and around Boise. Total amount of water authorized for use and conditions of the permits will not change.

Any protest against the approval of the proposed amendment must be filed with the Department of Water Resources, 2735 Airport Way, Boise ID 83705, together with a protest fee of $25.00, on or before October 6, 1997. The protestant must also send a copy of the protest to the applicant.

Karl J. Dreher
Director

Published September 18 and 25, 1997, in the Idaho Statesman.

MICROFILMED
DEC 10 1997

RECEIPT
For Monies Paid
to the
Idaho Department of Water Resources

Receipt No: W023021

Date: 9/ 5/1997
Time: 12:10:05

Received
From: UNITED WATER

Type of Payment		Program Acct	Amount
AMENDMENT OF PERMIT	62105	229 21 1155	200.00

Total $ 200.00

CHECK 126677

Region: WESTERN Signature: Debi Hoskins

Requested $50 Refund
10/97. E

RECEIVED
DEC 10 1997

LEGAL NOTICE

NOTICE OF AMENDED WATER RIGHTS PERMITS

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Karl J. Dreher, Director

Pub. September 18, 25, 1997 8593

RECEIVED

SEP 2 9 1997

WATER RESOURCES
WESTERN REGION

The Idaho Statesman

P.O. BOX 40, BOISE, IDAHO 83707-0040

LEGAL ADVERTISING INVOICE

Amount Due

$90.00

Account Number/Trans. #	Identification		
047628	Notice Of Amended Water Right Permits		
Ordered By	**P.O. Number**	**Rate**	**Run Dates**
Sue Taylor		TT	September 18, 25, 1997

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WESTERN REGION
2735 AIRPORT WAY
BOISE, ID 83705-5082

Estimated Inches	Real Inches
# Affidavits	**Legal Number**
1	8593

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
September 18, 1997
and ending with the issue of
September 25, 1997

Janice Hildreth

STATE OF IDAHO)
) ss.
COUNTY OF ADA)

On this 25th day of September in the year of 1997, 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 MODIE NOTARY PUBLIC STATE OF IDAHO

Janie Modie

Notary Public for Idaho
Residing at Boise, Idaho
My commission expires: 5703

DEC 1 0 1997

Form 238-7
1/94

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

Use Typewriter or Ball Point Pen

1. DRILLING PERMIT NO. 63-95-C-0113 200
Other IDWR No. 63 12138

2. OWNER:
Name United Water Idaho
Address Box 7488
City Boise State ID Zip 83707

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

N / W / E / S

Twp. 2 North ☒ or South ☐
Rge. 2 East ☒ or West ☐
Sec. 17, ____ 10 acres 1/4 N/E 40 acres 1/4 N/E 160 acres 1/4
Gov't Lot ____ County Ada

Address of Well Site ½ mile West of Pleasant Valley Rd City Boise
(Give at least name of road + Distance to Road or Landmark)

Lt. ____ Blk. ____ Sub. Name Ten Mile Well

4. PROPOSED USE:
☐ Domestic ☒ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other ____

5. TYPE OF WORK
☒ New Well ☐ Modify or Repair ☒ Replacement ☐ Abandonment

6. DRILL METHOD
☐ Mud Rotary ☐ Air Rotary ☒ Cable ☐ Other ____

7. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
bentonite	0	400+	8300#	grout pumped
6-9 Colorado sand				
	680	840	52,200	poured

Was drive shoe used? Y ☒ N ☐
Was drive shoe seal tested? Y ☒ N ☐ How? drawdown

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
24"	6"	67'	250	steel	☒	☐	☒	☐
20"	2'6"	700'	375	steel	☒	☐	☒	☐
					☐	☐	☐	☐

Length of Headpipe 25' Length of Tailpipe 15'

9. PERFORATIONS/SCREENS
☐ Perforations Method ____
☒ Screens Screen Type Johnson stainless 304 vee wire

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
705	826'10"	.40		14"		☐	☒
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
495 ft. below ground Artesian pressure ____ lb.
Depth flow encountered ____ ft. Describe access port or control devices: 2" plug on side of well

11. WELL TESTS:
☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
	NO TEST TO	DATE	

Water Temp. ____ Bottom hole temp. ____
Water Quality test or comments: ____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water Y	Water N
24	0	19	brown clay & hardpan		X
	19	103	sand, gravel, boulders		X
	103	200	sand & gravel		X
	200	340	cemented sand & gravel		X
20	340	440	sandy brown clay & clay		X
	440	455	sand & gravel		X
	455	465	brown sand		X
	465	491	brown sand & pea gravel		X
	491	510	brown clay		X
	510	520	brown sand		X
	520	590	sand & gravel	X	
	590	605	cemented sand & gravel		X
	605	615	sticky brown clay		X
	615	625	cemented sand with thin clay		X
	625	635	sand & gravel	X	
	635	649	tan clay		X
	649	659	gravel	X	
	659	662	sandy clay		X
	662	685	sand & gravel	X	
	685	695	sandy clay		X
	695	700	brown clay		X
	700	705	blue clay		X
	705	840	sand gravel with clay streaks	X	
	840	893	cemented sand & clay		X
	893	904	blue clay		X

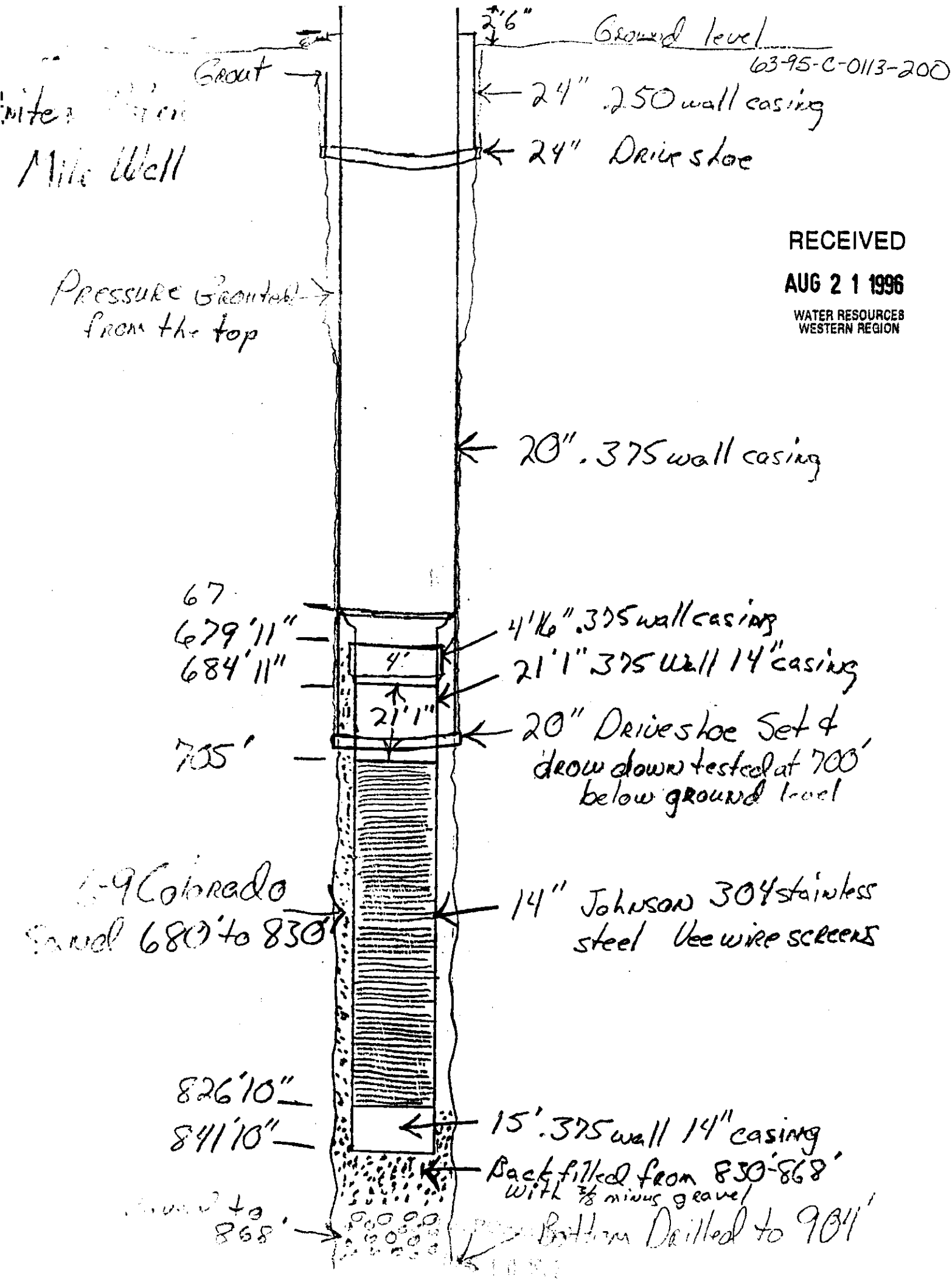
RECEIVED
AUG 2 0 1996
Department of Water Resources
RECEIVED
AUG 21 1996
WATER RESOURCES
WESTERN REGION

Completed Depth 842' (Measurable)
Date: Started 3/4/96 Completed 7/22/96

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

Firm Name Stevens & Sons Firm No. 153
Firm Official ____ Date 8/6/96
and
Supervisor or Operator Ron Stevens Date ____
Signature of Firm Official & Operator

FORWARD WHITE COPY TO WATER RESOURCES


2'6"
Ground level
63-95-C-0113-200
Grout
24" .250 wall casing
24" Drive shoe
Mile Well
RECEIVED
AUG 2 1 1996
WATER RESOURCES
WESTERN REGION
Pressure Gradient
from the top
20" .375 wall casing
679'11"
684'11"
4'
21'1"
705'
4'1/2" .375 wall casing
21'1" 375 wall 14" casing
20" Drive shoe Set &
drow down tested at 700'
below ground level
14" Johnson 304 stainless
steel Vee wire screens
826'10"
841'10"
15' .375 wall 14" casing
Backfilled from 830'-868'
with 3/8 minus gravel
868'
Bottom Drilled to 901'

MEMORANDUM

TO: Files 63-12138 and 63-12139

FROM: Sharla

DATE: November 6, 1997

RE: Southeast Boise Water Supply Operations Plan

A copy of the above referenced report can be found in Right 63-12043.

MICROFILMED
DEC 10 1997

MEMORANDUM

TO: Norm Young

THRU: Glen Saxton

FROM: Dave Tuthill

DATE: November 7, 1995

RECEIVED
NOV 0 8 1995
Department of Water Resources

RE: United Water Idaho (Boise Water Corporation) Water Right Permits Nos. 63-12043, 63-12138 and 63-12139

Attached please find a response from United Water Idaho to letters signed by Norm Young on August 29, 1995 and myself on September 13, 1995. The response includes a cover letter and a report entitled Southeast Boise Water Supply Operations Plan.

Norm Young's letter requested a plan to document that water from the three above-referenced permits is not being used at Micron. The report does appear to provide sufficient information to satisfy this requirement, based on the data they have provided and the paragraph entitled "System Operation."

My letter outlined our intention to amend permits nos. 63-12138 and 63-12139 to limit use to locations inside the city limits, and requested a plan to document that water from the wells is not used outside the city boundaries. The plan submitted by United Water appears to demonstrate that the corporation has sufficient wells and senior water rights in the Southeast Boise Service Area to provide for uses outside the City of Boise boundaries while the wells drilled under these water rights provides for uses within city limits. The United Water proposal to provide accounting spreadsheets for these uses on a bi-monthly basis appears to be adequate.

I suggest that this information be added to the files in this matter, and that either the state office or the regional office be assigned to monitor the bi-monthly reports for compliance with these requirements. Whichever office will be reviewing the reports should provide the response to United Water as to the adequacy of this report and the proposed operation plan.

DEC 1 0 199

United Water

United Water Idaho
8248 West Victory Road
PO Box 7488
Boise, ID 83707-1488
telephone 208-362-1300
facsimile 208-362-1479

October 31, 1995

Mr. David R. Tuthill, Jr., P.E.
Manager, Western Region Office
Idaho Department of Water Resources
2735 Airport Way
Boise, Idaho 83705-5082

Dear Mr. Tuthill:

Attached are two copies of the report, "Southeast Boise Water Supply Operations Plan," prepared in response to Norm Young's letter dated August 29, 1995 and your letter dated September 13, 1995 regarding water diversion and usage within the southeast Boise service area. We believe this report addresses the issues raised in your letters and will provide a management tool for operations in this area.

REPORTS

Reports will be submitted to your office on a bi-monthly basis to demonstrate sufficient water from wells with unrestricted, or premoratorium, water rights has been produced to supply the commercial/industrial customer consumption with average usages greater than 2,500 gallons per day. We will also demonstrate that sufficient water has been pumped from the Micron and Gowen booster stations to supply this level of commercial/industrial customer usage in the Columbia service area. These reports are scheduled to begin in January, 1996 for the operating period of approximately October 20 through December 20, 1995.

If you have any further questions regarding this matter, please give me a call.

Very truly yours,
UNITED WATER IDAHO

Daniel Brown, P.E.

c: Ben Hepler
Scott Rhead

DEC 1 0 1995

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 13, 1995

Mr. Wayne Booe, President
United Water Idaho
8248 West Victory Road

RE: Use of Water Under Permits Nos. 63-12138 and 63-12139

Dear Mr. Booe:

It has recently been brought to my attention that there is a place of use discrepancy between the advertisements and the permits issued for the two above-referenced water rights. The purpose of this letter is to propose for your consideration a resolution to this discrepancy.

The place of use originally identified for each of the two applications was "Boise City and proposed Woodland Park." The place of use was advertised by the Department as "within the City limits of Boise." The place of use as allowed under the water right permits that were issued on February 22, 1995, is "within the city limits of Boise and surrounding service area."

The concern that has been raised is that a reader of the advertisement might not realize that Boise Water Corporation (now United Water Idaho) does provide water service to some areas outside the city limits. Consequently, the suggestion is that the place of use for these permits should be limited to the advertised location.

I have reviewed the present boundaries of the City of Boise on the south and southeastern sides, and note that most of the subdivisions that are proposed to be served by these water rights have already been annexed to the city, including the controversial Surprise Valley Subdivision. As we have previously discussed, the use of water from these two wells for Micron has already been limited to 2500 gpd per well. Thus, it appears that the major impact of limiting the use of these water rights to areas within the City of Boise would be to ensure that this water is not used for service to a few homes located outside of the city limits. As the city limits expand, the authorized place of use under each permit will expand.

JAN 25 1996

I note that the advertising discrepancy did not occur with the water right for the "raptor well", associated with water right permit no. 63-12043. In this case both the advertisement and the permit referred to a place of use with the "city limits of Boise and the surrounding service area served by Boise Water Corporation." Thus, water diverted from this well can be used to provide service to homes located in this area outside the city limits.

At this point it appears appropriate for the Department to amend both permits via an order so that the place of use on the permits is consistent with the place of use on the advertisements. If at some point United Water desires to use water diverted under water right 63-12138 or 63-12139 on a location outside the city limits, United Water would need to file with the Department an application to amend the place of use. This application would be processed in accordance with Section 42-211, Idaho Code.

I am aware that the wells associated with these two water rights are not presently in production, and that initial test pumping of one of the wells is anticipated to occur later this month. Before we take further action on the permits we would request your response regarding these considerations. If you concur with the proposal provided herein, please prepare a plan to document that water from the wells is not used outside the city boundaries. This plan could be similar in form to the one being developed to demonstrate that water is not being used for Micron in accordance with the letter sent to you by Norman C. Young dated August 29, 1995.

Please feel free to contact me regarding any aspect of this letter.

Sincerely,

David R. Tuthill, Jr., P. E.
Manager, Western Region Office

cc: Norman C. Young & L. Glen Saxton, IDWR
David Barber, Office of the Attorney General

JAN 25 1996

APPLICATION FOR PERMIT
STATE OFFICE REVIEW
by Cindy Zimmerman

No.: 63-12138 / **Name:** Boise Water Corp **Date:** 2/21/95 **Ad OK?** ✓
Correct Fee? ✓ **Receipt #:** W017951 **Priority:** 8/19/94 **✓ Gvmt Lts:** ✓

AREA OF CONCERN? - No/Yes BRD Mor _____ GWMA Trust/Non-trust
PROTESTED: - 020(Prehearing agreement) or W19(See Order)
SYSTEM COMPLETED:
Yes/proof filed - NA
1 year/no proof - **P16**
+1 year - 26A-~~**P17**~~
GROUNDWATER: <✓ *FLO-CH*>
+ 0.2 cfs 3.9 cfs - 01M
- 0.2 cfs - No MD
+ 5 a. (*POU cmp*) - 01M, 803(if GW use SW 1st)
Drilling Permit:
Existing well - NA (pre 7/1/87) drilled 1970
Included w/permit - Permit No. ___-___-__-_____-____, **P99**
No WD permit? - 046-46A(LG Irr)-46B-**P23** (post 7/1/87)
irr. in WD - **P05** (new well)
SURFACE WATER <✓ *FLO-CH*>(Surface water that *doesn't sink*):
Water District(~~*dom*~~) - 005 (*req*) WD #_____ <SEE MAP & LISTING>
+ 0.2 cfs - 01J-**P08** or 01M
- 0.2 cfs - 01H-**P01** or No MD
+ 5 a. irr. - 01M (*POU cmp*)
~~In WD~~ + 0.2 cfs - 01M or No MD (in-stream)
+ 5 a. irr. - 01M (*POU cmp*)
RIVER BASINS (**Surface water*):
Snake R (01) - 11A-**P04**, NA
(02/03) - 007-**P07** (w/remark WB9), NA
Boise R (63) - 05A (if ~~WD~~), 11E (not 42-111 use), NA
Payette R (65) - 064(consump. use), 047-**P04**(Payette Lake), NA
USE: Municipal
Domestic (*surface*) - 021(Boise R ↑ L Peak); 064(Payette R); NA
Fish Propagation - 07A-042(*rq*)-010/06A/09E(WQ)-**P10**;044(N 1000 Spr)
Irr - 5 acres - 057 (0.03 cfs/A)
+ 5 acres - 03A (0.02 cfs/A)
Mining - 054 (*req*) & 06A/010/09E-**P10**
Power - 08A-17K-025-027-01M-01F(**P19**)-09E(**P10**);
+25 cfs-**P18**; 17G(FERC) or 17M(~~FERC~~); 18B-**P09**
Storage(✓ *3 compo.*) - 18A(multi MD in WD), 18B-**P09** (+10' dam), NA
LOCATION:
Boise Front LoGeo - 058 (-85° GW temp only)
In-stream dev. - 030 (stream channel alteration)
Irr Dist/Canal Co. - 023 (Twin Falls area)
Swan Falls Flag - B <SEE CONDITION CODE CHART>
Trust - 051-052-053-**P74** (Consumptive Uses), NA
Non-Trust <1> - 048-049 (Consumptive Uses), NA
OWNERSHIP:
Non-land owner - 004 (PD/PU) Yanke & Nicholson / residents
OTHER CONDITIONS: -
STANDARD REMARKS: - ① P/U / Boise ② W03 ③ W04 ④ W05 ⑤ W21

BENEFICIAL USE DUE: - 3-1-~~99~~ 2000
COMMENTS: -

-2N 2E 5.17

Form No. 202a.
4/93

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPROPRIATION APPLICATION ANALYSIS SHEET

INITIAL REVIEW BY: SL DATE: 8/23/94 APPLICATION: 63-12138

REQUIRED INFORMATION

already on file with IDWR

- 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/A P/D
N/A P/U

ADDITIONAL INFORMATION

YES	NO	
N/A		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:
	*	1992 moratorium
		Copy to SCA staff (perennial stream, non-pump diversion):
		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 or irrigation greater than 200 acres: (If yes, attach Large Diversion supplementary analysis sheet.)
		*REQUEST ADDITIONAL INFORMATION FROM THE APPLICANT

DATE REQUESTED: _____

✓		Additional information on reverse side:

* ok with limiting conditions for new Municipal use

PROCESSING APPLICATION 63-12139

YES	NO	
✓		In form for advertising:
	✓	Statewide advertising: (> 10 cfs &/or 1000 af)
✓		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 9-19-94
	✓	Protest dates, resolution of protest recorded on application:
	✓	Recommendations attached: Approve, DNR
	✓	Measuring device required:
	✓	Measuring port required:
	✓	Water delivered by water master? District #
✓		Special conditions of approval or cover letter:

26a (Allow 3 yrs), DIA, 04
Attached Special conditions of approval

	✓	See below for additional information

Recommended Date or Priority 8/19/1994
Recommended by: DNR Date 10/28/94

STATE OFFICE REVIEW

		See below for additional information. By Date

ADDITIONAL INFORMATION

P/L within City of Boise's proposed Woodland Park, a certificated delivery area for applicant.

Applicant (Re: Dan Brown) will supply written confirmation of certification plus boundary map for Woodland Park showing section lines prior to IDWR approval of this application (discussed in D.B.'s ~~8/2~~ 8/19/94 office visit).

Received 9/13/94

Also for 2nd similar appl for existing well (Re: 63-07046) filed concurrently. (63-12139)

Overlap - proposed using well 63-07359, apparently fortified into well. Well owner recently withdrew transfer appl. of this well prior to advertising.

MEMORANDUM

TO: Boise Water Corporation Applications for Permit

FROM: Dave Tuthill

DATE: October 28, 1994

RE: Proposed Special Conditions of Approval

In compliance with the provisions of the Boise River Basin Moratorium, and in recognition of the proposed revisions of the Administrator's Memorandum regarding municipal uses, the following special conditions of approval are proposed:

1. Place of use is within the certificated service area of Boise Water Corporation.

2. Use of water under this right is limited to domestic uses as defined by Section 42-111, Idaho Code. This water right shall not be used for irrigation of tracts in excess of one-half acre or for commercial or industrial uses in excess of 2500 gallons per day per user.

MAR 29 1995

Office of the Secretary
Service Date
DEC 1- 1993

BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION

IN THE MATTER OF THE APPLICATION OF BOISE WATER CORPORATION TO AMEND AND REVISE CERTIFICATE OF CONVENIENCE AND NECESSITY NO. 143	CASE NO. BOI-W-93-2 18TH AMENDED CERTIFICATE NO. 143

IT IS HEREBY CERTIFIED that the public convenience and necessity requires, or will require, Boise Water Corporation, its successors and assigns to hold, construct, or otherwise acquire and to maintain and to operate a water system in and supply water to that certain territory within Ada County in the vicinity of Boise City described in Attachment 1 hereto and subject to the exclusions described in Attachment 2 hereto, and for such purpose to own, hold, construct or otherwise acquire and to maintain and operate within said territories water wells, reservoirs, tanks, towers, stand pipes, collectors, settling basins, galleries and other works and structures, and also to lay, take up, repair, renew, extend, alter, maintain and operate water mains, pipes, conduits, aqua ducts, hydrants and other appliances, equipment and facilities in, upon, over, under, along, through and across all streets, avenues, alleys, streams, highways, roads and other public places in said territory as the same now exists or may hereafter be extended, laid out or established, and to exercise the rights and privileges granted, or to which may hereafter be granted Boise Water Corporation, its successors or assigns, by any franchise conferred by the state of Idaho or any political subdivision thereof.

This Certificate is predicated upon and issued pursuant to the findings and provisions of Order No. 25256 issued this 29th day of November 1993 in Case No. BOI-W-93-2 to which reference is hereby made.

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DATED at Boise, Idaho this 22nd day of November 1993.

MARSHA H. SMITH, PRESIDENT

DEAN J. MILLER, COMMISSIONER

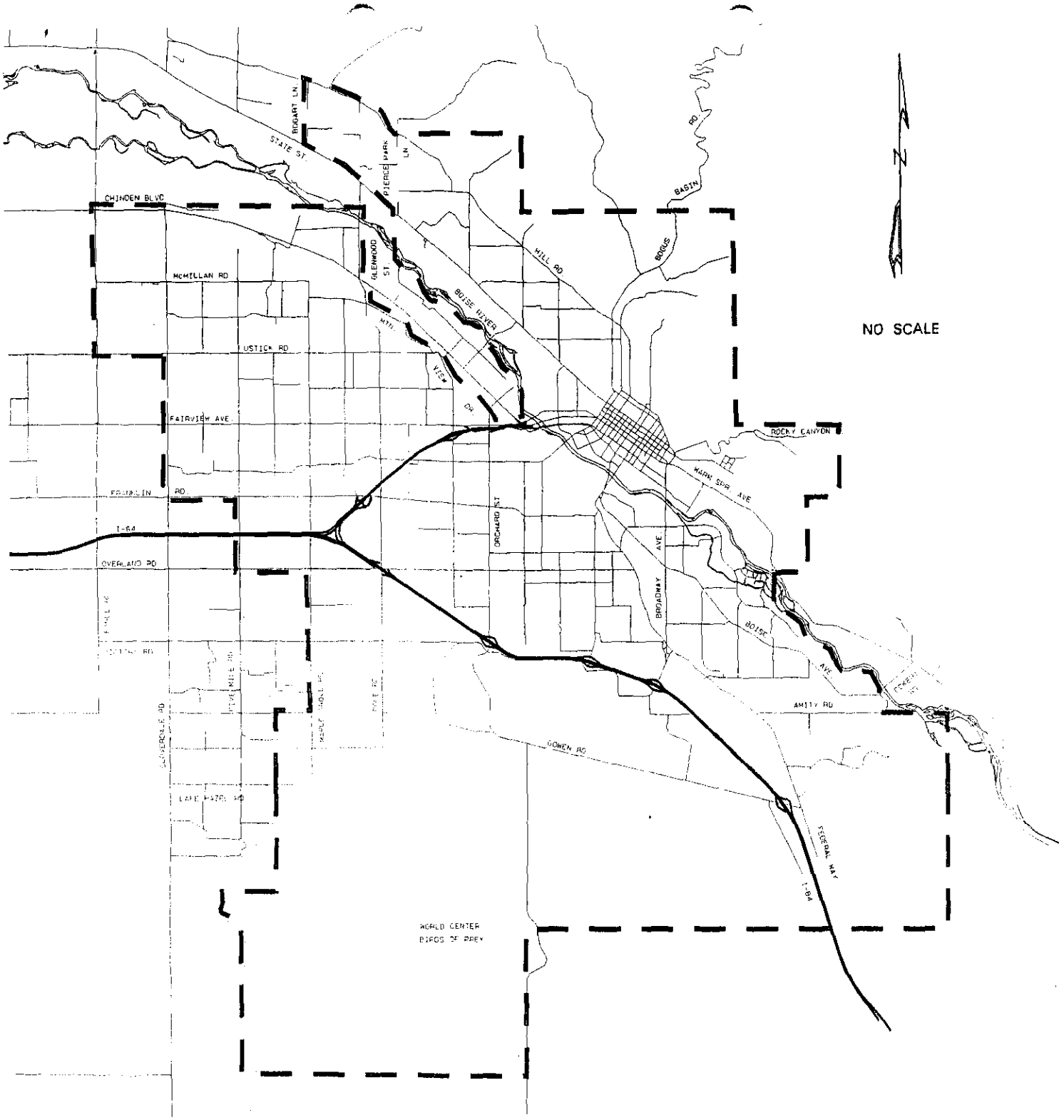
RALPH NELSON, COMMISSIONER

ATTEST:

Myrna J. Walters
Commission Secretary

LM:JR\BOI-W-93-2

MAR 29 1995



BOISE WATER CORPORATION
AREA OF CERTIFICATION

CERTIFICATION BOUNDARY

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WATER RESOURCES
WESTERN REGION

ADDENDUM TO MEMORANDUM OF UNDERSTANDING
BETWEEN
BLACK CREEK LIMITED PARTNERSHIP
AND
BOISE WATER CORPORATION

DATED OCTOBER 1, 1993

Paragraph 2 of the above memorandum of understanding states:

> "To assure its ability and authority to provide water service to the Property, BWC will petition the Idaho Public Utilities Commission to add the Property to BWC's certificated service area."

On October 4, 1993, Boise Water Corporation filed an application with the Idaho Public Utilities Commission to amend and revise its Certificate of Convenience and Necessity to enlarge and extend its boundary to include the above referenced Property.

On December 1, 1993, under Order No. 25256, the Commission ordered to amend and revise Boise Water Corporation's Certificate of Convenience and Necessity, as proposed in the company's October 4, 1993 application.

MAR 29 1995

63-12138

BOISE WATER CORPORATION
PO BOX 7488
BOISE, ID 83707

Source: GROUNDWATER

Diversion Pt: NENE Sec 17 T 02N R 02E in ADA County.

Use: MUNICIPAL (3.900 CFS)
Total Diversion: (3.900 CFS)

Date Filed: 8/19/1994

Place of use is within the city limits of Boise.

Applicant seeks limited municipal use exempted from Snake River Moratorium and will use an existing well.

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WR0749NP
No. P63-12138

IDAHO DEPARTMENT OF WATER RESOURCES
WATER RIGHT PROFILE REPORT

DATE: 02/21/95
PAGE: 1

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM	USE PERIOD TO	DIVERSION RATE	DIVERSION VOLUME
C	BOISE WATER CORP PO BOX 7488 BOISE ID 83707-7488 (208) 362-1704	08/19/1994	MUNICIPAL	01-01	12-31	3.900 CFS	
				TOTAL DIVERSION:		3.900 CFS	

Water Source: GROUNDWATER Tributary to: Stage: PERMIT

Point(s) of Diversion: T02N R02E S17 NENE ADA County

Pou County:

Conditions of Approval:

26A - Project construction shall commence within one year from the - date of permit issuance and shall proceed diligently to - completion unless it can be shown to the satisfaction of the - Director of the Department of Water Resources that delays were - due to circumstances over which permit holder had no control.

01M - 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.

004 - The issuance of this right in no way grants any right-of-way - or easement across the land of another.

Remarks: Place of use is within the city limits of Boise and surrounding service area.
The daily diversion volume for the non-domestic uses authorized under this permit shall not exceed 2,500 gallons per day in accordance with the provisions of Section 42-111, Idaho Code.
The domestic use authorized under this right shall not exceed 13,000 gallons per day per dwelling in accordance with Section 42-111, Idaho Code.
This permit authorizes irrigation of up to 1/2 acre within each platted subdivision lot upon which a domestic dwelling has been constructed.
Irrigation of large projects such as parks, golf courses, or sports activities fields is not authorized under this permit.

Dates: App. Received: 08/19/1994 Priority Date: 08/19/1994
Proof Due Date: 03/01/2000 Proof Made Date:
Exam Made Date: Exam Sent to S.O.:
Licensed Date:

Misc: Water District Number: Field Exam Fee:

Comments: Date: 08/23/1994 User-ID: STAYLOR Subject: Previously Operated Well.
This well was previously operated for irrigation purposes
under water right license #63-7359. Water has not been
produced from this well for irrigation purposes since 1985
and the water right (63-7359) has therefore been forfeited.

Audit: 02/21/95 CZIMMERM

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

November 7, 1995

BOISE WATER CORP
PO BOX 7488
BOISE ID 83707-7488

RE: Permit Nos. 63-12138 & 63-12139

Dear Permit Holder:

Enclosed are copies of the Amended Permits in accordance with the accompanying order. It is a "preliminary order" issued by the department pursuant to section 67-5243, Idaho Code. It can and will become a final order without further action of the department unless a party petitions for reconsideration within fourteen (14) days after issuance as further described below:

PETITION FOR RECONSIDERATION

Any party may file a petition for reconsideration of a preliminary order with the hearing officer within fourteen (14) days of the service date of this order. The hearing officer 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 this 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, this preliminary order will become a final order of the agency.

If any party appeals or takes exceptions to this 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 Director. The Director retains the right to review the preliminary order on his own motion.

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ORAL ARGUMENT

If the Director grants a petition to review the preliminary order, the Director 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 Director will within a reasonable time period notify each party of the place, date and hour for the argument of the case. Unless the Director orders otherwise, all oral arguments will be heard in Boise, Idaho.

CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and any other matters filed with the Director in connection with the preliminary order shall be served on all other parties to the proceedings in accordance with Rules of Procedure 302 and 303.

FINAL ORDER

The Director 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 Director 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:

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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.

Sincerely,

JIM JOHNSON, Manager
Water Right Permits Section

JJ:rl

Enclosure

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

R. KEITH HIGGINSON
DIRECTOR

February 23, 1995

BOISE WATER CORP
PO BOX 7488
BOISE ID 83707-7488

PERMIT APPROVAL NOTICE

RE: PERMIT NO. 63-12138

Dear Permit Holder:

Enclosed is a copy of your approved application for permit. Please be sure to thoroughly review the "CONDITIONS/REMARKS:" listing on the permit.

As a permit owner you must commence the excavation or construction of the diverting works within one year of the date the permit was issued, and you must proceed diligently until the project is completed. The date shown under condition no. 1 is the date when the project must be completed.

The Department will send you a "Proof Due Notice" approximately 60 days prior to the above referenced date requesting you to file either a Proof of Beneficial Use form or a Request for Extension of Time form.

Sincerely,

Shelley W. Keen
Water Rights Supervisor

SK:rl

Enclosures

MAR 2 9 1995

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WATER RESOURCES
WESTERN REGION

The Idaho Statesman

P.O. BOX 40, BOISE, IDAHO 83707

LEGAL ADVERTISING INVOICE

Amount Due
$192.00

Account Number	Identification
04762800	Idaho Dept. of Water Resources, Western Region Notice of Application for Water Right

Ordered By	P.O. Number	Rate	Run Dates
R. Keith Higginson		NT	September 1 & 8, 1994

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

Estimated Inches	Real Inches
# Affidavits	Legal Number
1	8384

LEGAL NOTICE

NOTICE OF APPLICATION FOR WATER RIGHT

The Following application(s) have been filed to appropriate the public waters of the State of Idaho:

63-12137

STATE OF IDAHO
DEPARTMENT OF TRANSPORTATION
PO BOX 8028
BOISE, ID 83707

Source: UNNAMED DRAIN Tributary: BOISE RIVER
Diversion Pt: LOT 1 (NWNENE) Sec 17 T04N R01E in ADA County.
Use: WILDLIFE STORAGE (4.00 AF)
Total Diversion: (4.00 AF)

Date Filed: 8/4/1994
In: ADA County
T04N R01E S17 Lot 1 (NENE) Lot 2 (NWNE)
Applicant seeks exemption from the Snake River Moratorium for use existing prior to November, 1987.

63-12136

STATE OF IDAHO
DEPT OF TRANSPORTATION
PO BOX 8028
BOISE, ID 83707

Source: GROUNDWATER
Diversion Pt: NENW Sec 17 T04N R01E in ADA County.
Use: WILDLIFE STORAGE (1.00 AF)
Total Diversion: (1.00 AF)

Date Filed: 8/18/1994
In: ADA County
T04N R01E S17 NENW
Applicant seeks exemption from the Snake River Moratorium for use existing prior to November, 1987.

63-12138

BOISE WATER CORPORATION
PO BOX 7488
BOISE, ID 83707

Source: GROUNDWATER
Diversion Pt: NENE Sec 17 T02N R02E in ADA County.
Use: MUNICIPAL (3.900 CFS)
Total Diversion: (3.900 CFS)

Date Filed: 8/19/1994
Place of use is within the city limits of Boise.
Applicant seeks limited municipal use exempted from Snake River Moratorium and will use an existing well.

63-12139

BOISE WATER CORPORATION
PO BOX 7488
BOISE, ID 83707

Source: GROUNDWATER
Diversion Pt: NENW Sec 21 T02N R02E in ADA County.
Use: MUNICIPAL (4.900 CFS)
Total Diversion: (4.900 CFS)

Date Filed: 8/19/1994
Place of use is within the city limits of Boise.
Applicant seeks limited municipal use exempted from Snake River Moratorium and will use an existing well.

63-12140

BOISE WATER CORPORATION
PO BOX 7488
BOISE, ID 83707

Source: GROUNDWATER
Diversion Pt: SWSW Sec 28 T04N R01E in ADA County.
Use: MUNICIPAL (3.500 CFS)
Total Diversion: (3.500 CFS)

Date Filed: 8/22/1994
Place of use is within the city limits of Boise.
Applicant seeks limited municipal use exempted from Snake River Moratorium and will use an existing well.

Permits will be subject to all prior water rights. Protests may be submitted based on the criteria of Sec. 42-203A, Idaho Code. Any protest against the approval of this application must be filed with the Director, Dept. of Water Resources, Western Region, 2735 Airport Way, Boise, Idaho 83705 together with a protest fee of $25.00 on or before SEPTEMBER 19, 1994. The protestant must also send a copy of the protest to the applicant.

R. KEITH HIGGINSON, Director

Pub. Sept. 1 & 8, 1994 8384

LINDA PORTER, 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 September 1, 1994

and ending with the issue of September 8, 1994

Linda Porter

STATE OF IDAHO)
ss.
COUNTY OF ADA)

On this 8th day of SEPTEMBER in the year of 1994, before me, a Notary Public, personally appeared LINDA PORTER, 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.

Janice Madeo
Notary Public for Idaho
Residing at Boise, Idaho
My commission expires: 5/97