

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

WATER RIGHT NO. 95-07883

Priority: December 14, 1978 Maximum Diversion Rate: 1.00 CFS
Maximum Diversion Volume: 131.4 AF

This is to certify, that SINGER RANCH WATER ASSN

C/O HERB SINGER

948 ALABAMA ST

RATHDRUM ID 83858

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated December 14, 1978; and has submitted Proof of Beneficial Use on November 15, 1988. An examination indicates that the works have a diversion capacity of 2.530 cfs of water from a GROUNDWATER source, and a water right has been established as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	05/01 to 11/01	0.78 CFS	117.0 AF
DOMESTIC	01/01 to 12/31	0.22 CFS	14.4 AF
	Totals	1.00 CFS	131.4 AF

LOCATION OF POINT(S) OF DIVERSION:

SWNE , Sec. 32, Township 52N, Range 04W
KOOTENAI County

PLACE OF USE: IRRIGATION

<u>TWN</u>	<u>RGE</u>	<u>SEC</u>	<u>ACRES</u>	<u>ACRES</u>	<u>ACRES</u>	<u>TOTAL</u>
52N	04W	32	SENE	39		39

Total number of acres irrigated: 39

PLACE OF USE: DOMESTIC

<u>TWN</u>	<u>RGE</u>	<u>SEC</u>	<u>ACRES</u>	<u>ACRES</u>	<u>ACRES</u>
52N	04W	32	NENE	NWNE	SWNE
			SENE		

CONDITIONS/REMARKS:

1. The maximum diversion volume is defined as the maximum allowable volume of water that may be diverted annually from the source under this right. The use of water confirmed by this right limited to the amount that can actually be beneficially use used. The maximum diversion volume may be adjusted to more accurately describe the beneficial use or to implement accepted standards of diversion and use efficiency.
2. This water right is appurtenant to the described place of use.
3. This right is subject to all prior water rights and may be forfeited by five years of non-use.

Microfilm

MAY 25 1993

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

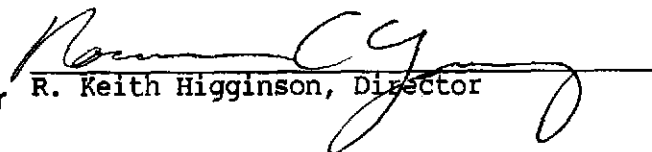
WATER RIGHT NO. 95-07883

CONDITIONS/REMARKS:

4. Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho law.
5. This right when combined with all other rights shall provide no more than .02 cfs per acre nor more than 3.0 afa per acre for the lands above.
6. Domestic use is for 24 homes.
7. The total combined rate of diversion under this right and 95-02150 shall not exceed 2.53 cfs.

This license is issued pursuant to the provisions of Section 42-219, Idaho Code. Witness the seal and signature of the Director, affixed at Boise, this 18th day of DECEMBER, 1992.

Acting for


R. Keith Higginson, Director

MAY 25 1993

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

For Office Use Only
Fee Received 15.00
Date 12-5-83
Receipt # 33625

REQUEST FOR EXTENSION OF TIME

To provide additional time in which to submit
proof of beneficial use on a water right permit

RECEIVED
DEC 5 1983

Department of Water Resources

Herb Singer For
Singer Ranch Water 255. of 40 Herb Singer - RT. 3 - Box 341
(Name) (Address)
Rathdrum, Idaho
83858
State of Idaho, deposes and says:

That he is the holder, or the duly authorized agent of the holder*, of Permit to Appropriate the Public Water of
the State of Idaho No. 95-7883.

That under the terms and conditions of said permit, work thereunder was required to be completed on or before
Jan. 1, 19 84.

That he has heretofore performed the following work described under said permit: Water is
(This must be filled out! If no work has been completed put none.)
used to irrigate 240 acres & is
being installed for domestic water
to numerous 5 acre parcels now
uncompleted - (well drilled & system installed) Costing \$ 50,000 -

That he is unable to complete the remainder of the work within the required time for the following reasons, to-wit:
Finances + approval of Public
authorities of subdivision

Wherefore, he asks that the Department of Water Resources extend the time for the completion of obligations
under said permit to Jan. 1, 19 89.
(1 yr. minimum, 5 yrs. maximum)

NOTE
AS OF JULY 1, 1980,
THERE IS A \$15.00
CHARGE FOR REQUESTS
FOR EXTENSION OF
TIME.

Herb Singer, Pres.
(Signature)*

*IF OTHER THAN HOLDER, Power of Attorney must be supplied.

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

IT IS HEREBY ORDERED that the above application for extension of time be APPROVED and the time within
which to submit the statement of beneficial use is extended to January 1, 1989.

Signed this 13th day of December, 19 83.

L. Glen Saxton
Chief, Operations Bureau

MICROFILMED

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

APPROVED

To appropriate the public waters of the State of Idaho

1. Name of applicant Singer Ranch Water Association Phone 687-0966

Post office address c/o Herb Singer, Rt 3, Box 341, Rathdrum, Idaho 83858

2. Source of water supply Groundwater which is a tributary of _____

3. Location of point of diversion is SW $\frac{1}{4}$ of NE $\frac{1}{4}$ of Section 32 Township 52N

Range 4W B.M. Kootenai County, additional points of diversion if any: _____

4. Water will be used for the following purposes:

Amount 1.00 for Domestic purposes from 1/1 to 12/31 (both dates inclusive)
(cfs or acre-feet per annum)

Amount 1.00 for Irrigation purposes from 5/1 to 11/1 (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 appropriated:

a. 2.0 cubic feet per second and/or b. _____ acre-feet per annum.

6. Proposed diverting works:

a. Description of ditches, flumes, pumps, headgates, etc. Well and Pump

b. Height of storage dam _____ feet, active reservoir capacity _____ acre-feet; total reservoir capacity _____ acre-feet, materials used in storage dam: _____

Period of year when water will be diverted to storage _____ to _____ inclusive.
(Month/Day) (Month/Day)

c. Proposed well diameter is 30 inches; proposed depth of well is 240 feet.

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

8. Description of proposed uses:

a. If water is not for irrigation: _____ NE $\frac{1}{4}$
(1) Give the place of use of water: E $\frac{1}{2}$ ~~XX~~ of NW $\frac{1}{4}$ of Section 32 Township 52N

Range 4W B.M.

(2) Amount of power to be generated: _____ horsepower under _____ feet of head.

(3) List number of each kind of livestock to be watered _____

(4) Name of municipality to be served _____, or number of families to be supplied with domestic water 24.

(5) If water is to be used for other purposes describe: _____

RECORDED

b. If water is for irrigation, indicate acreage in each subdivision in the tabulation below:

[illegible]

Total number of acres to be irrigated 60

c. Describe any other water rights used for the same purposes as described above. _____

95-2150

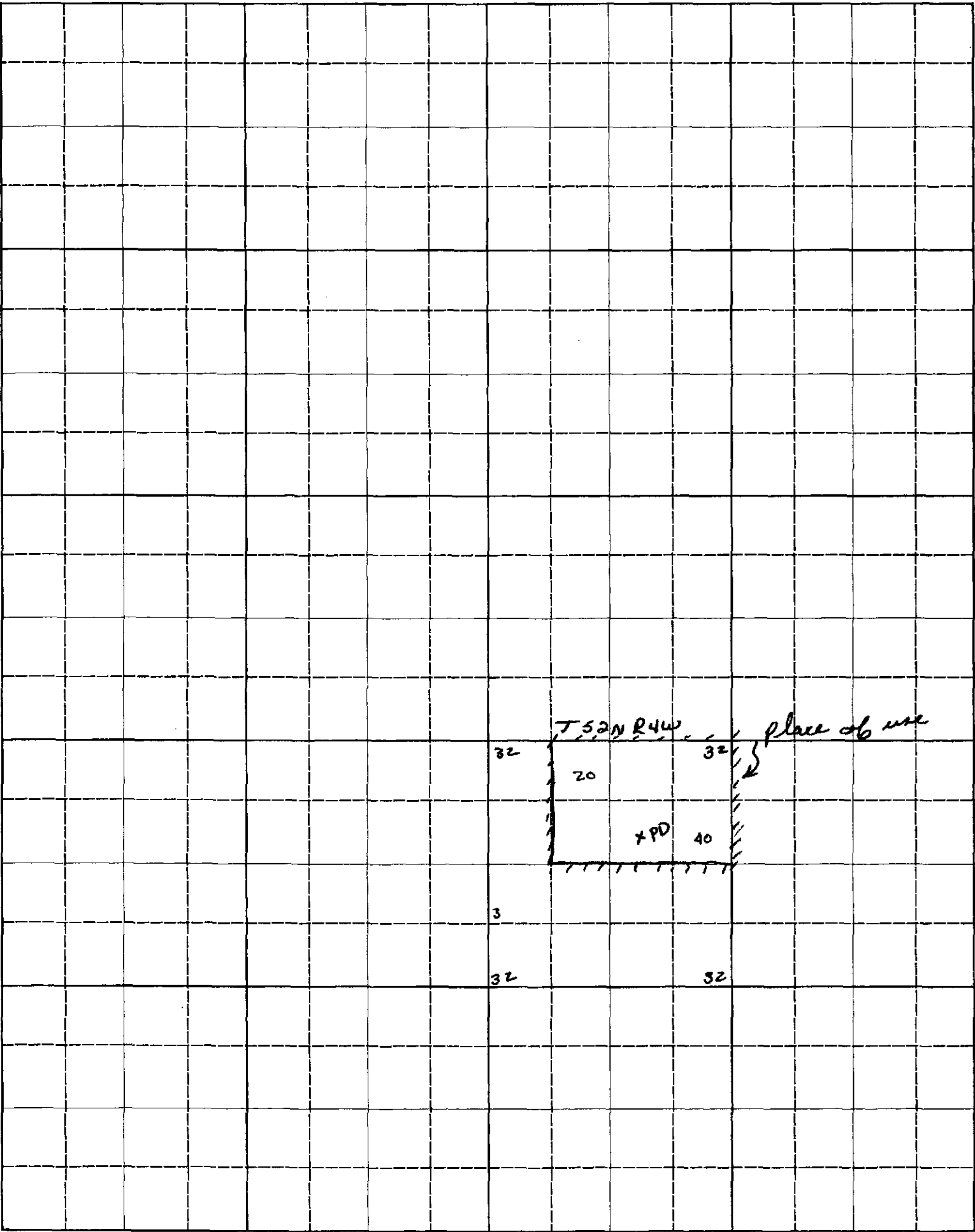
9. a. Who owns the property at the point of diversion Applicant _____

b. Who owns the land to be irrigated or place of use Members of Association

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 Well is the same as described in 95-2150

11. 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.

Herb Singer
(Applicant)
Member of board

Proposed Priority 12-14-78

Received by Ryff Date 12-14-78 Time Noon

Preliminary check by _____ Fee \$ 4500

Receipted by Ryff Date 12-14-78 # 12174

Publication prepared by me Date 12/20/78

Published in CDA Press

Publication dates 12/28/78 - 1/4/79

Publication approved _____ Date _____

Protests filed by: _____

Copies of protests forwarded by _____

Hearing held by _____ Date _____

Recommended for approval denial by Ryff J.S.

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. 95-7883, and said application is hereby APPROVED.

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 January 1, 19 84.
- 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. Other: An access port or other device as specified by the Department shall be installed by the permit holder to provide for the installation of measuring equipment and the determination of the rate of diversion by the Department.

Witness my hand this 31st day of January, 1979.

A. Glen Saxton
Chief, Operations Bureau

Singer Ranch 95-07883

RECEIVED

NOV 26 1993

Department of Water Resources

TRENCH DETAIL

NO SCALE

COMPACTED
WDS. SELECT
CL. MATERIAL
LAYERED
AS SHOWN

3'4" MAX
(SEE NOTE)

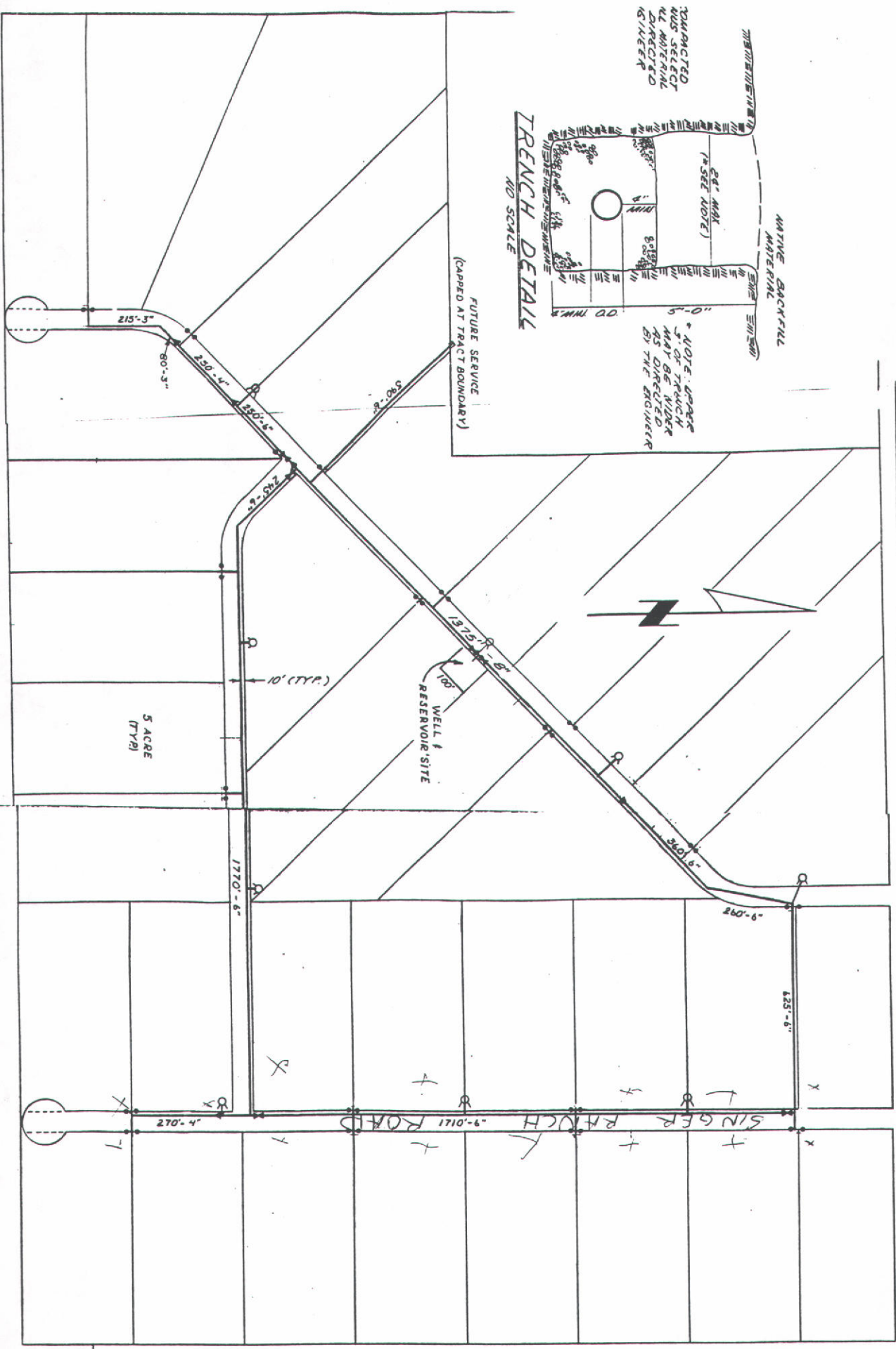
NATIVE BACKFILL
MATERIAL

* NOTE: DEPTH
OF TRENCH
MAY BE WIDER
AS DIRECTED
BY THE ENGINEER

FUTURE SERVICE
(CAPPED AT TRACT BOUNDARY)

WELL &
RESERVOIR SITE

5 ACRE
(TYP)



LICENSE REVIEW CHECKLIST

Permit # 95-07883

Date 10-15-92

NAME	<u>Yes</u>	<u>No</u>	Address Change?
PRIORITY DATE	<u>Yes</u>	<u>No</u>	Advance?
	<u>Yes</u>	<u>No</u>	Memo to Advance
	<u>Yes</u>	<u>No</u>	Order to Reinstate Needed?
TOTAL CFS	<u>Yes</u>	<u>No</u>	Incorrect Fee for rate recommended?
	<u>Yes</u>	<u>No</u>	Disagree with Actual Measurement?
	<u>Yes</u>	<u>No</u>	<u>39 x .02 = .78 cfs (IRR) 24 DOM = .22 cfs (DOM)</u>
	<u>Yes</u>	<u>No</u>	Disagree with Theoretical?
	<u>Yes</u>	<u>No</u>	Limited by Capacity? <u>2.53 cfs</u> (measured)
TOTAL VOLUME			Rate/ac <u>3.0</u> AFA Irr. Season <u>D</u>
			<u>3-15 to 11-15</u> Standard Irr. Season
			<u>5-1 to 11-1</u> Per Permit Season Recommended
	<u>Yes</u>	<u>No</u>	Disagree with Examiner's Calculations?
	<u>Yes</u>	<u>No</u>	<u>39 x 3.0 = 117 afa (IRR) 14.4 afa (DOM)</u>
	<u>Yes</u>	<u>No</u>	Limited by Flow? <u>.78 x 184 x 1.9835 = 284.7 > 117</u>
SOURCE	<u>Yes</u>	<u>No</u>	Changes? Clarification of <u>Originally</u>
	<u>Yes</u>	<u>No</u>	<u>Intended source</u>
	<u>Yes</u>	<u>No</u>	Notice of Intent to Void.
P/D	<u>Yes</u>	<u>No</u>	Verify with Map
	<u>Yes</u>	<u>No</u>	Amendment Needed?
	<u>Yes</u>	<u>No</u>	Is Overlap Analysis a Consideration?
P/U	<u>Yes</u>	<u>No</u>	Verify with Map <u>Drop NENEW (IRR)</u>
	<u>Yes</u>	<u>No</u>	<u>Drop EX2 NW (DOM)</u>
	<u>Yes</u>	<u>No</u>	Amendment Needed? <u>Drop NENEW / Add NENE, NWNE & SONE</u>
	<u>Yes</u>	<u>No</u>	Is Overlap Analysis a Consideration?
USES	<u>Yes</u>	<u>No</u>	Change(s) in Nature of Use?
	<u>Yes</u>	<u>No</u>	Amendment Needed?
REMARKS	<u>Yes</u>	<u>No</u>	Multiple P/Ds in 1/4 1/4?
	<u>Yes</u>	<u>No</u>	Non-Irr. Uses <u>DOM / 24 Homes</u>
	<u>Yes</u>	<u>No</u>	Special Overlap Condition <u>P/D overlap 95-2150</u>
	<u>Yes</u>	<u>No</u>	Other
CONDITIONS	<u>Yes</u>	<u>No</u>	Measuring Device
	<u>Yes</u>	<u>No</u>	W/Master Control
	<u>Yes</u>	<u>No</u>	Overlap
	<u>Yes</u>	<u>No</u>	Water Quality
	<u>Yes</u>	<u>No</u>	DATES/MISC
	<u>Yes</u>	<u>No</u>	Water Dist.
	<u>Yes</u>	<u>No</u>	App Rec'd
	<u>Yes</u>	<u>No</u>	Exam Made
COMMENTS/MEMOS NEEDED:	<u>Reduced Rate, a.cres Amend P/D</u>		
	<u>DOM Internal per F.E.</u>		

License 10-Day 15-Day Special Correspondence

Check List
for
Beneficial Use Field Report

Permit 95-07883

A. GENERAL INFORMATION

1. Name and address are most current available. (Check BU statement)
2. Exam Date
3. Source (Check Permit)

B. OVERLAP REVIEW

1. & 2. (Rule 5,1,4)

C. SYSTEM DESCRIPTION

1. Diversion System Diagram (Rule 5,1,3 / 5,1,4)
2. USGS (Rule 5,1,7 / 5,1,9) Aerial (Rule 5,1,17)
Photo of pd and/or pu or explanation
3. Word Picture (Rule 5,1,3 / 5,1,4)
4. Diversion (Rule 5,1,3)
5. Compare with USGS Map/Land Survey Maps/Aerial Photos/Permit.
Government Lot ?
Method of determination
6. Compare USGS/Land Survey? Aerial Photos/Permit.
Method of determination,
Irrigation (Rule 5,1,8),

Department of Water Resources

D. FLOW MEASUREMENTS Check math (Rule 5,1,13 / 5,1,14)

E. FLOW CALCULATIONS Check math (Rule 5,1,13 / 5,1,14)

F. OPTIONAL

G. VOLUME CALCULATIONS

- Three significant figures/not less than 0.10 (Rule 6,1,2)
Fish (Rule 5,1,11) number stock, homes, etc... (Rule 5,1,12)

H. REMARKS AND OVERLAP ANALYSES

- All actual uses listed (Rule 5,1,2):
All unused, permitted uses listed (Rule 5,1,2):
Overlaps (Rule 5,1,4):
Return flows (Rule 5,1,5):
Conditions (Rule 5,1,6).

I. RECOMMENDATIONS

1. Municipal (Rule 5,1,10): Compare with items E & G, permit, fee, capacity
(Rule 5,1,15): Measured flows for each use listed separately (Rule 5,1,14).
Period of year (Rule 5,1,13)
2. Compare permit to exam for amendments (Rule 5,1,16)

J. AUTHENTICATION

Name, Signature, Certification Date, Exam Date.

WELL INSPECTION REPORT

Check with permit and well log for discrepancies

Signature Tom D. King
Tom D. King Sr. Water Resource Agent

Date 11/27/91

RECEIVED
JUL 27 1992

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

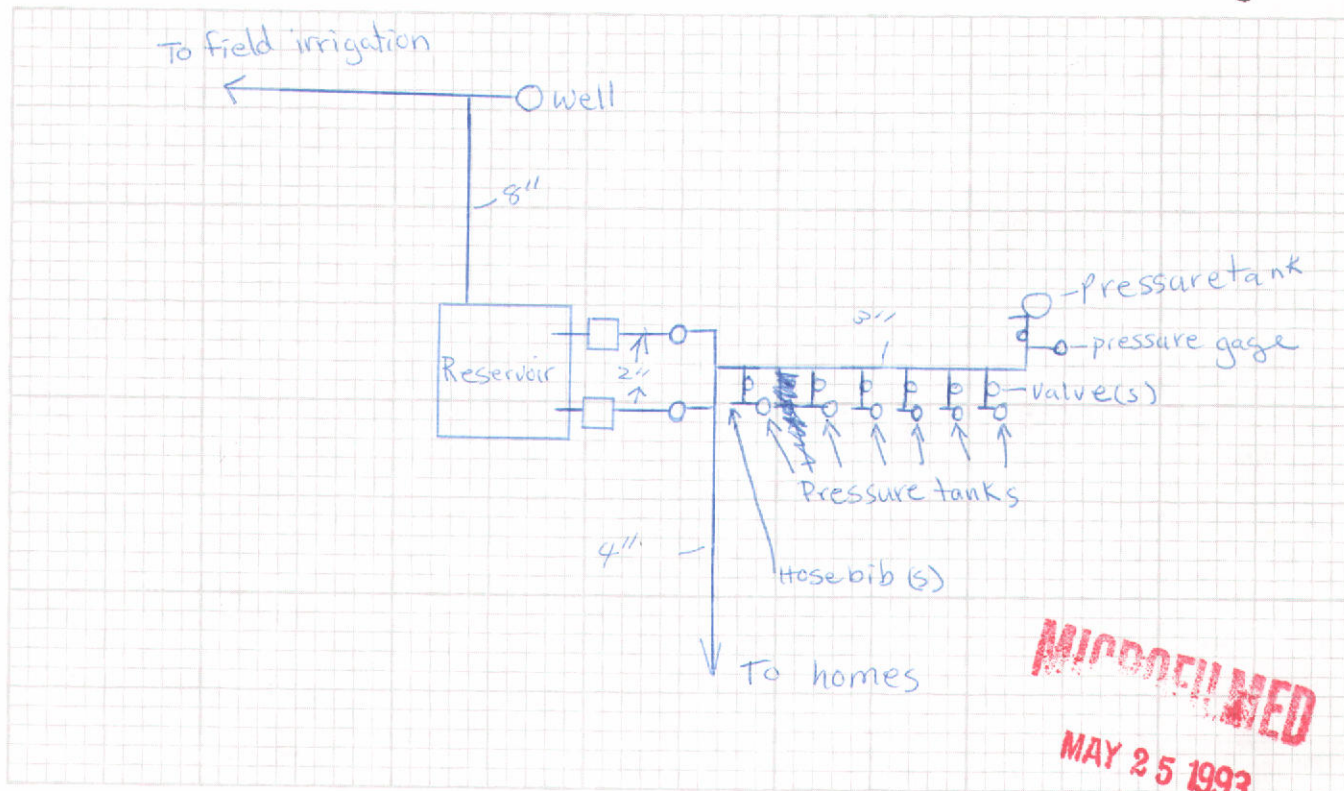
1. Owner: Singer Ranch Water Association Permit No. 95-07883
 Current Address: c/o Herb Singer 948 Alabama St., Rathdrum ID 83858 Phone No. 208 687-0966
 2. Accompanied by: SAME EXAM. DATE: 9/12/91
 Address: _____ Phone No. _____
 Relationship to Permit Holder: _____
 3. Source: Groundwater tributary to _____

B. OVERLAP REVIEW

1. Other water rights with same place of use: _____ ☐ Copies Attached
 2. Other water rights with same point of diversion: 95-2150 ☒ Copies Attached ☐ Copies of Field Exam's Attached

C. SYSTEM DESCRIPTION

1. **Diversion System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable. ☐ Alternative diagram attached ☒ Supplemental diagrams Attached



MICROFILMED
MAY 25 1993

Scale: 1" = NTS

2. ☒ Copy of U.S.G.S. Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).
☒ Photo of Diversion and System Attached (required for all but single household domestic groundwater, and stockwater).
☐ Aerial Photo Attached - individual systems (required for irrigation of 10 acres or more). @ 45 acres

System Description (continued)

3. Narrative: Description (As operating at time of measurement. Indicate pressure, number of sprinklers, etc.)

Water from 8" 234' deep well is pumped into a 44,000 gallon reservoir by a 150 hp pump. From this reservoir, water is pumped ~~to~~ through a 4 inch line to 24, 5 acre parcels by ~~a~~ 2-10 hp pumps ~~which~~ which alternate in pumping. System is pressurized by six 85 gallon size pressure tanks. Permit holder plans on adding a 15 hp motor in the future when rest of subdivision is developed

☐ See Remarks on page 4 for continuation

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
	US Motors	150	1334980		
	Century	10		Goulds	
	Peerless	10	PEM 8355	20 352-	14

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

5. Point(s) of Diversion:

Ident. No.	Gov't. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
			SW	NE	32	52N	4W	Kootenai	Map

6. Place(s) of Use:

Indicate Method of Determination Map

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
52N	4W	32	D	D	D	D													
~~52N~~	~~4W~~	~~32~~				~~32~~													~~42~~
52N	4W	32				39													39

Do not use this space

MAILED 1993
MAY 25 1993

MAY 25 1993

Do not use this space

D. FLOW MEASUREMENTS

☒ Additional Data Sheets Attached (Sup. Field Report)

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Cox Hall	6-12			1462676		

2. Measurements:

$$H = 31.0 \quad L = 6.9 \quad \Delta = 24.1$$

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached (Sup. Field Report)

1. Measured Method:

$$\frac{(3.1416)(3.87)^2(24.1)}{448.8} = 2.53 \text{ cfs}$$

2.0 cfs as per permit

2. Alternate Method for Checking Purposes:

$$\frac{150 \times 8.8 \times .70}{2.31 \times 45 + 214} = \frac{924}{317.95} = 2.91 \text{ system Capacity}$$

F. PUMP EFFICIENCY DATA (Optional)

Discharge Pressure: _____ psi x 2.31 = _____ ft (1); Dynamic pumping level: _____ ft (2)

Total Head: (1) + (2) = _____ (3)

Flow rate: _____ cfs (4)

Water HP: (3) x (4) ÷ 8.8 = _____ (5)

Meter Input KW: 3.6 x _____ KH x _____ CTR or _____ MULT x _____ PTR x _____ N/ _____ T = _____ (6)

Meter Input HP: (6) x 1.34 = _____ (7)

Panel Input KW: _____ Ave PF x _____ Ave Volts x _____ Ave Amps x .001732 = _____ (6)

Panel Input HP: (6) x 1.34 = _____ (7) Efficiency: (5)/(7) x 100 = _____ %

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 39 \times 3.5 = 136.5 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 1.0 \times 153 \times 1.9835 = 303.5 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 136.5$$

2. Volume Calculations for Other Uses:

$$24 \text{ homes} \quad 24 \times .6 \text{ AF/home} = 14.4 \text{ AF}$$

$$16 \times 0.6 \text{ AF/home} = 9.6 \text{ AF}$$

MAY 25 1993

H. REMARKS AND OVERLAP REVIEW ANALYSIS

This right when combined with 95-02150 should not exceed 2.53 cfs. NOT MORE THAN 0.02 cfs/acre - TPK
 Irrigation of 20 acres in NENW was permitted, as was domestic use, but system pipe lines do not extend to this location and therefore these uses are not developed.

I. RECOMMENDATIONS**1. Recommended Amounts**

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
<i>Domestic (24)</i>	<i>1-1</i>	<i>12-31</i>	<i>1.0 cfs</i>	<i>14.4</i>
<i>Irrigation</i>	<i>5-1</i>	<i>11-1</i>	<i>1.0 cfs</i>	~~<i>440.0</i>~~ <i>136.3</i>
Totals:			<i>2.0 cfs</i>	~~<i>154.4</i>~~ <i>150.9</i>

2. Recommended Amendments☐ Change P.D. as reflected above☐ Add P.D. as reflected above☒ None☐ Change P.U. as reflected above☐ Add P.U. as reflected above☐ Other**J. AUTHENTICATION**

Field Examiner's Name

Theresa J. Bright

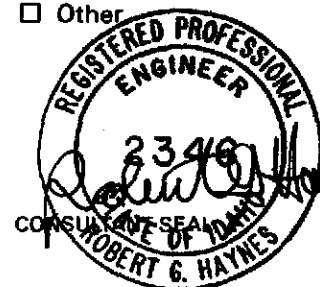
Signature

Theresa J. Bright

Certification Date

4/10/91

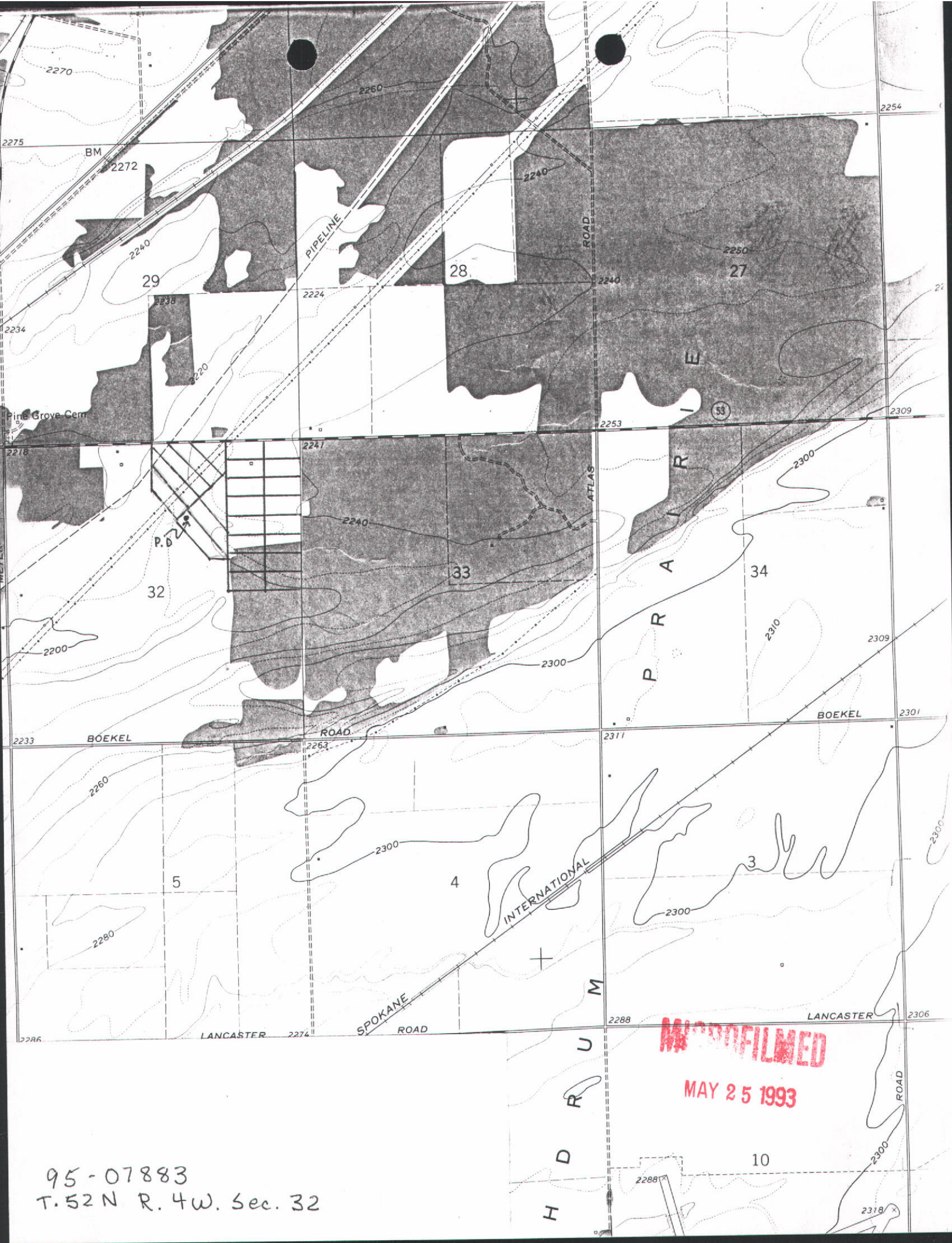
Field Report Preparation Date

9/12/91

K. Licensing recommendation shall be prepared by an Idaho Department of Water Resources employee on a computer printout attached hereto.

MICROFILMED

MAY 25 1993



95-07883
T. 52 N R. 4 W. Sec. 32

SUPPLEMENTAL DIAGRAM #95-07883

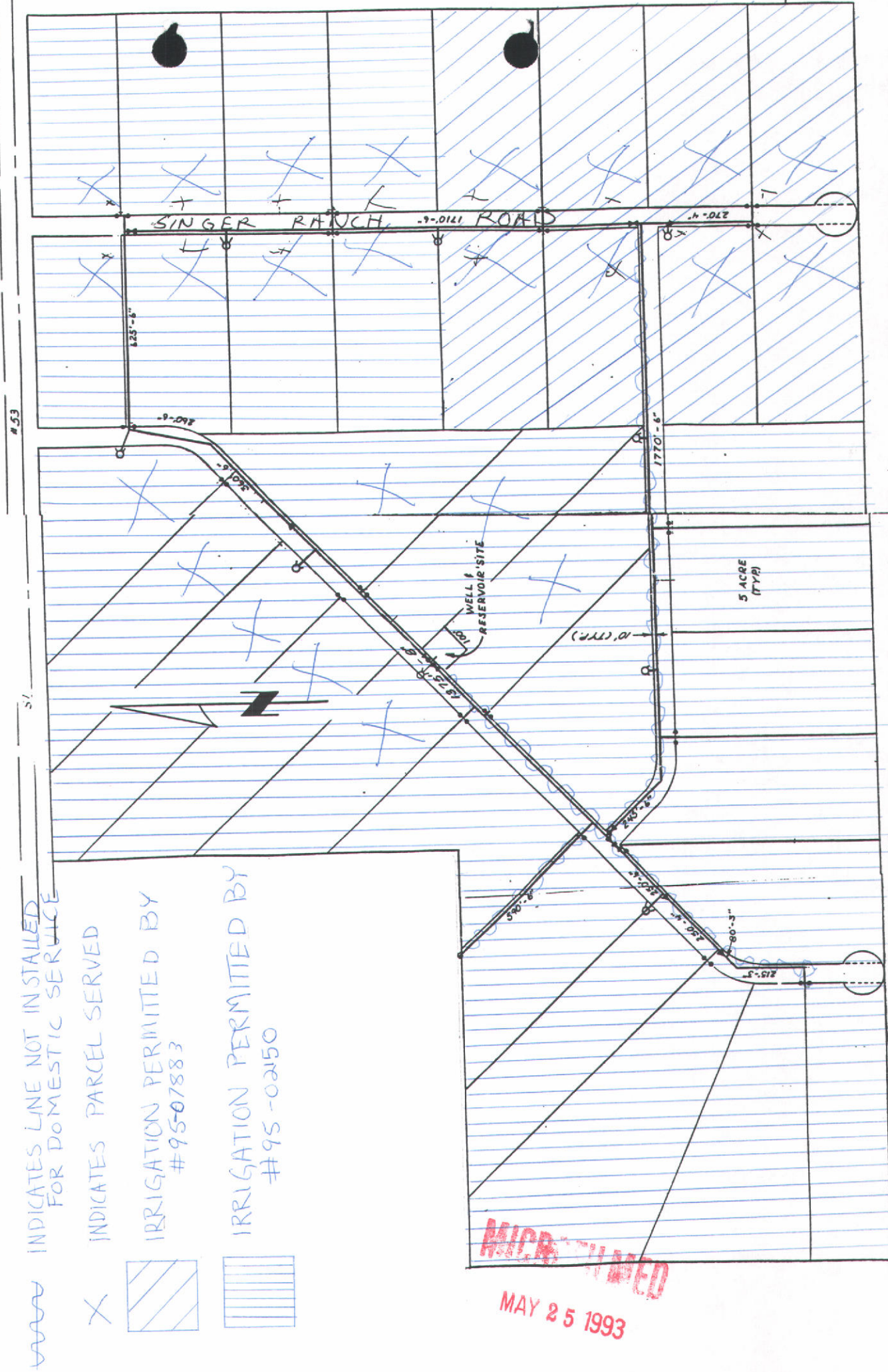
LEGEND

INDICATES LINE NOT INSTALLED FOR DOMESTIC SERVICE

X INDICATES PARCEL SERVED

IRRIGATION PERMITTED BY #95-07883

IRRIGATION PERMITTED BY #95-02150



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
FIELD REPORT SUPPLEMENT

PERMIT # 95-7883

Singa Ranch

PHOTOGRAPHS



Pump # "T" to Reservoir



Pressure tanks



Pumps for Subdivision
& Subdivision Main Line

UNRECORDED
MAY 25 1993

7/87

State of Idaho

DEPARTMENT OF WATER RESOURCES

SUPPLEMENTAL FIELD REPORT FOR COX/HALL MEASUREMENT

Measured by: Theresa BrightDate 9/12/91Owner: Herb SingerPermit No. 95-C7883

Description of well &/or measuring site

- Include any clarifications of the sketch

- Include legal description if more than one p.d. is described in the Field Report

inside diameter is 7 3/4 inch

MEASURED INSIDE PIPE RADIUS IN INCHES (IR)

CIR = Pipe Circumference in Inches = 25.9I = Pipe Thickness in Inches = .25IR = [(0.1592 X CIR) - I] = 3.875DIFFERENTIAL PRESSURE READING IN INCHES OF H₂O (H)High Reading = 31.0Low Reading = 6.9High - Low = H = 24.1

COX/HALL DESCRIPTION & FACTOR DETERMINATION (H#)

State ID No. 1462676Size of tip used 2.46 (2.4")Number of holes in meter taped or blocked None

To determine Cox/Hall Factor (H#) use table to the right.
Using the Differential Pressure Reading (H) find appropriate Row and Column to determine (H#).
(example: H = 12.4 then H# = 17.0)

Determine (H#) and enter here: 24.1

CALCULATION OF DISCHARGE IN CFS (Q)

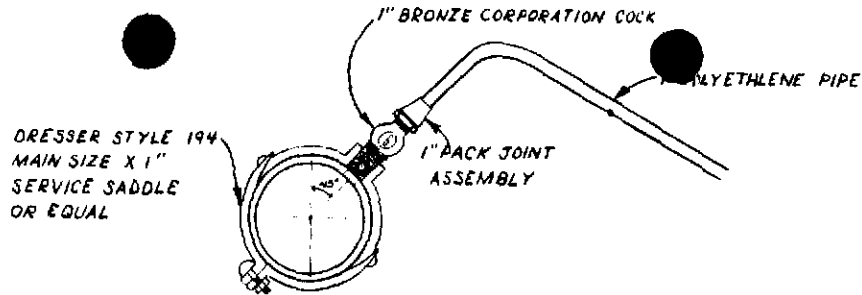
$$Q = \frac{(3.1416) (IR)^2 (H\#)}{(448.8)}$$

$$Q = \frac{(3.1416) (3.875)^2 (24.1)}{(448.8)} = 2.53 \text{ CFS}$$

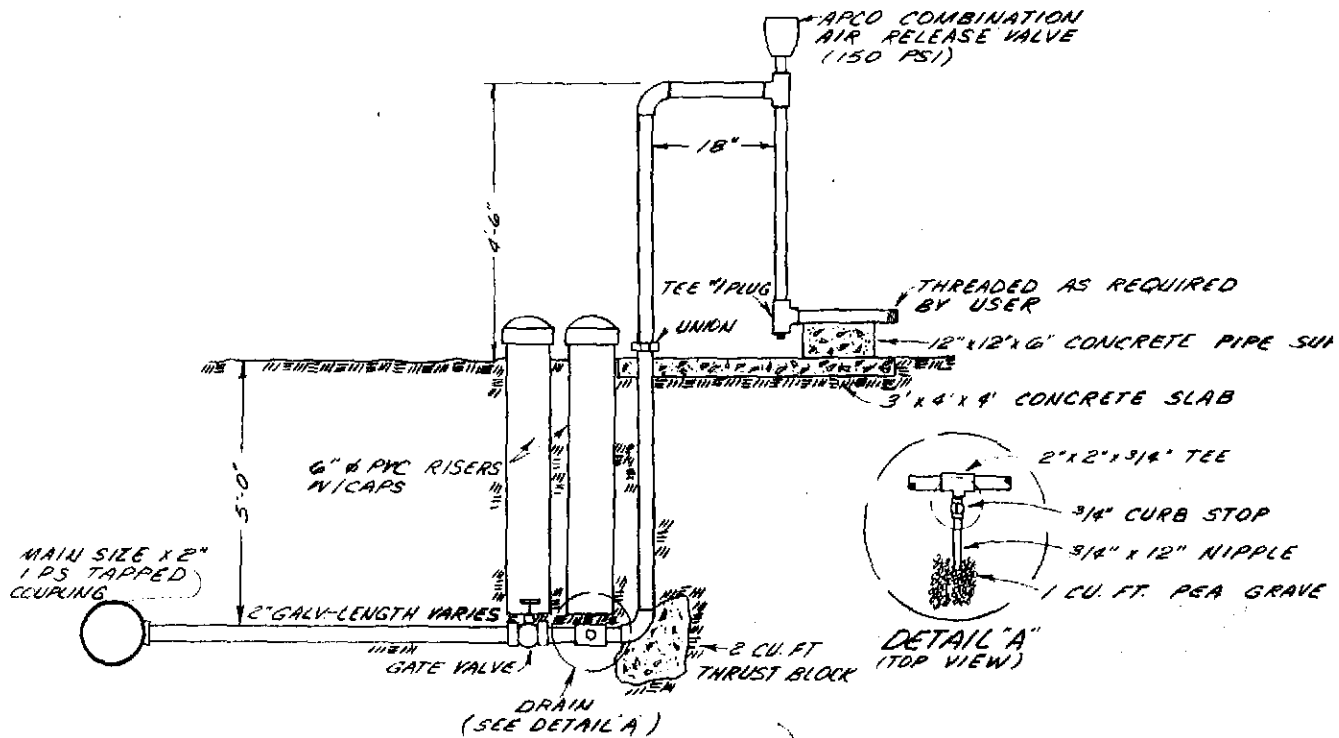
SKETCH (If not shown on Field Report)

MAY 25 1993

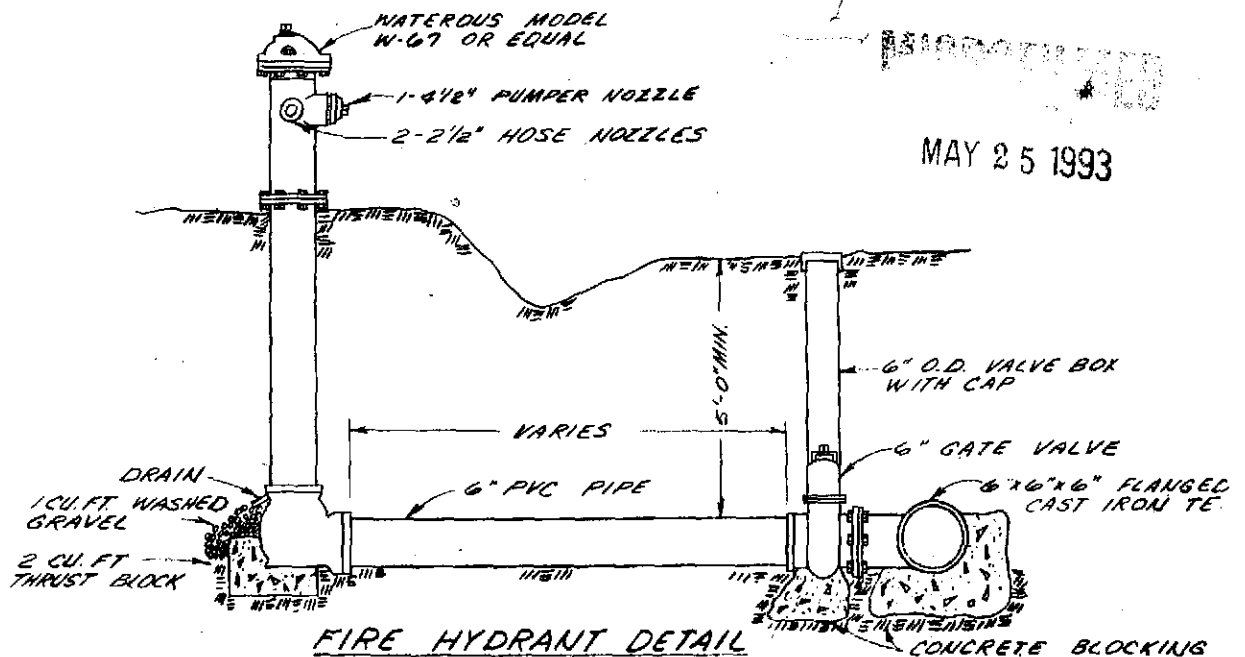
	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0	0.0	0.8	1.3	1.8	2.2	2.5	2.9	3.3	3.7	4.0
1	4.3	4.9	5.4	5.8	6.2	6.6	7.0	7.4	7.8	8.2
2	8.3	8.9	9.4	9.8	10.2	10.6	11.0	11.4	11.8	12.2
3	12.3	12.9	13.4	13.8	14.2	14.6	15.0	15.4	15.8	16.2
4	16.3	16.9	17.4	17.8	18.2	18.6	19.0	19.4	19.8	20.2
5	20.3	20.9	21.4	21.8	22.2	22.6	23.0	23.4	23.8	24.2
6	24.3	24.9	25.4	25.8	26.2	26.6	27.0	27.4	27.8	28.2
7	28.3	28.9	29.4	29.8	30.2	30.6	31.0	31.4	31.8	32.2
8	32.3	32.9	33.4	33.8	34.2	34.6	35.0	35.4	35.8	36.2
9	36.3	36.9	37.4	37.8	38.2	38.6	39.0	39.4	39.8	40.2
10	40.3	40.9	41.4	41.8	42.2	42.6	43.0	43.4	43.8	44.2
11	44.3	44.9	45.4	45.8	46.2	46.6	47.0	47.4	47.8	48.2
12	48.3	48.9	49.4	49.8	50.2	50.6	51.0	51.4	51.8	52.2
13	52.3	52.9	53.4	53.8	54.2	54.6	55.0	55.4	55.8	56.2
14	56.3	56.9	57.4	57.8	58.2	58.6	59.0	59.4	59.8	60.2
15	60.3	60.9	61.4	61.8	62.2	62.6	63.0	63.4	63.8	64.2
16	64.3	64.9	65.4	65.8	66.2	66.6	67.0	67.4	67.8	68.2
17	68.3	68.9	69.4	69.8	70.2	70.6	71.0	71.4	71.8	72.2
18	72.3	72.9	73.4	73.8	74.2	74.6	75.0	75.4	75.8	76.2
19	76.3	76.9	77.4	77.8	78.2	78.6	79.0	79.4	79.8	80.2
20	80.3	80.9	81.4	81.8	82.2	82.6	83.0	83.4	83.8	84.2
21	84.3	84.9	85.4	85.8	86.2	86.6	87.0	87.4	87.8	88.2
22	88.3	88.9	89.4	89.8	90.2	90.6	91.0	91.4	91.8	92.2
23	92.3	92.9	93.4	93.8	94.2	94.6	95.0	95.4	95.8	96.2
24	96.3	96.9	97.4	97.8	98.2	98.6	99.0	99.4	99.8	100.2
25	100.3	100.9	101.4	101.8	102.2	102.6	103.0	103.4	103.8	104.2
26	104.3	104.9	105.4	105.8	106.2	106.6	107.0	107.4	107.8	108.2
27	108.3	108.9	109.4	109.8	110.2	110.6	111.0	111.4	111.8	112.2
28	112.3	112.9	113.4	113.8	114.2	114.6	115.0	115.4	115.8	116.2
29	116.3	116.9	117.4	117.8	118.2	118.6	119.0	119.4	119.8	120.2
30	120.3	120.9	121.4	121.8	122.2	122.6	123.0	123.4	123.8	124.2
31	124.3	124.9	125.4	125.8	126.2	126.6	127.0	127.4	127.8	128.2
32	128.3	128.9	129.4	129.8	130.2	130.6	131.0	131.4	131.8	132.2
33	132.3	132.9	133.4	133.8	134.2	134.6	135.0	135.4	135.8	136.2
34	136.3	136.9	137.4	137.8	138.2	138.6	139.0	139.4	139.8	140.2
35	140.3	140.9	141.4	141.8	142.2	142.6	143.0	143.4	143.8	144.2
36	144.3	144.9	145.4	145.8	146.2	146.6	147.0	147.4	147.8	148.2
37	148.3	148.9	149.4	149.8	150.2	150.6	151.0	151.4	151.8	152.2
38	152.3	152.9	153.4	153.8	154.2	154.6	155.0	155.4	155.8	156.2
39	156.3	156.9	157.4	157.8	158.2	158.6	159.0	159.4	159.8	160.2
40	160.3	160.9	161.4	161.8	162.2	162.6	163.0	163.4	163.8	164.2
41	164.3	164.9	165.4	165.8	166.2	166.6	167.0	167.4	167.8	168.2
42	168.3	168.9	169.4	169.8	170.2	170.6	171.0	171.4	171.8	172.2
43	172.3	172.9	173.4	173.8	174.2	174.6	175.0	175.4	175.8	176.2
44	176.3	176.9	177.4	177.8	178.2	178.6	179.0	179.4	179.8	180.2
45	180.3	180.9	181.4	181.8	182.2	182.6	183.0	183.4	183.8	184.2
46	184.3	184.9	185.4	185.8	186.2	186.6	187.0	187.4	187.8	188.2
47	188.3	188.9	189.4	189.8	190.2	190.6	191.0	191.4	191.8	192.2
48	192.3	192.9	193.4	193.8	194.2	194.6	195.0	195.4	195.8	196.2



TYPICAL DOMESTIC SERVICE
NO SCALE

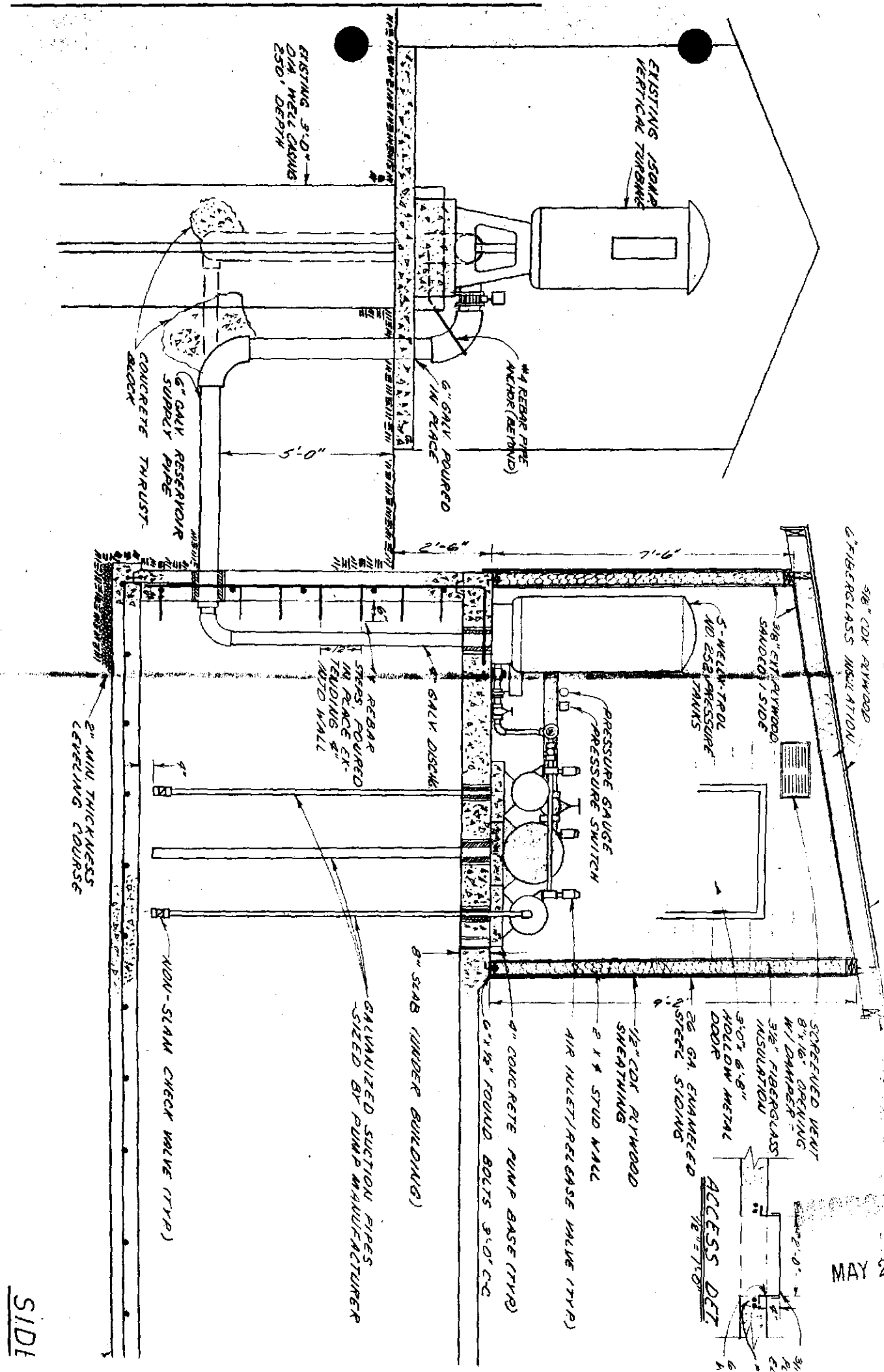


TYPICAL IRRIGATION SERVICE
NO SCALE

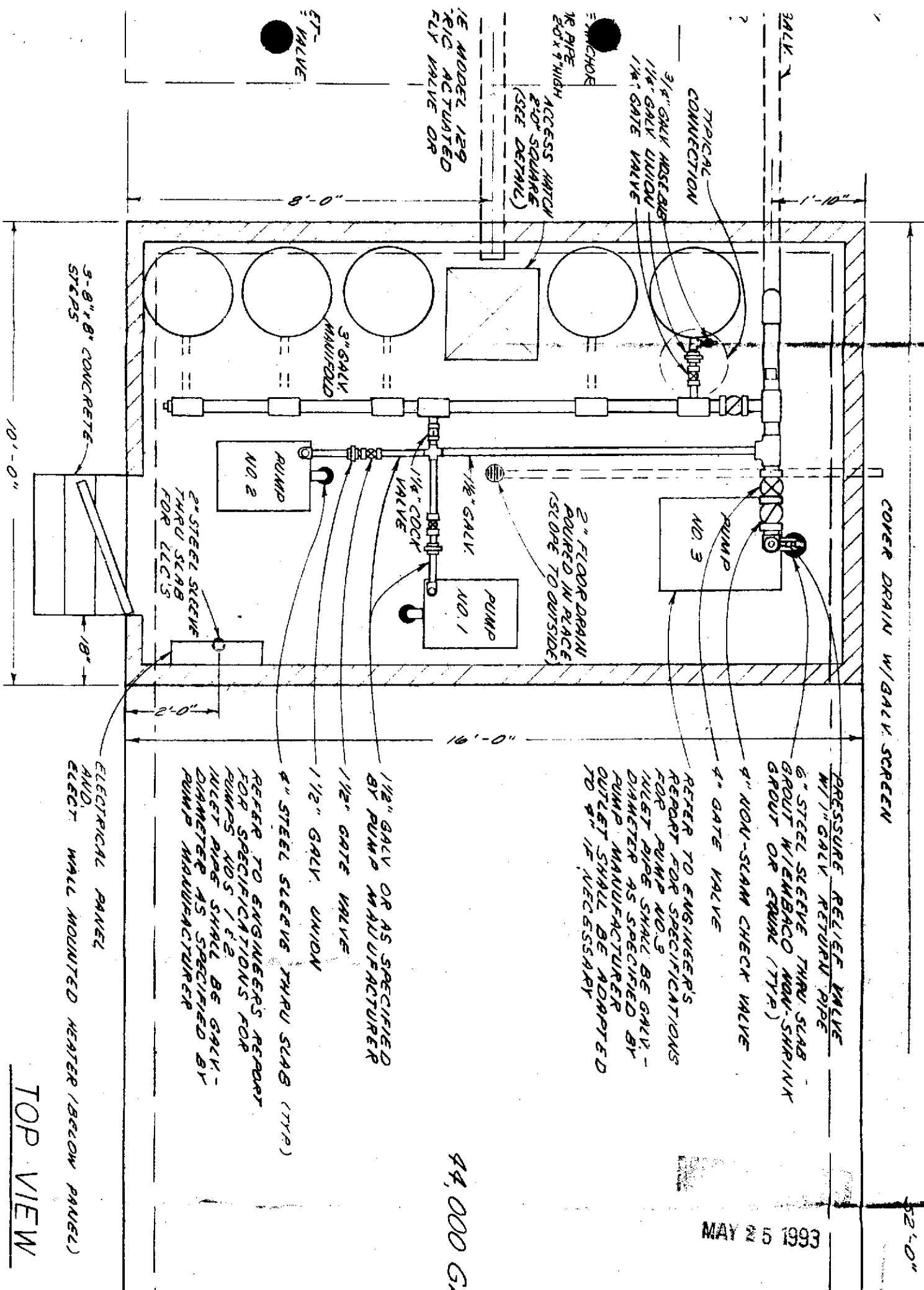


REPRODUCTION

MAY 25 1993



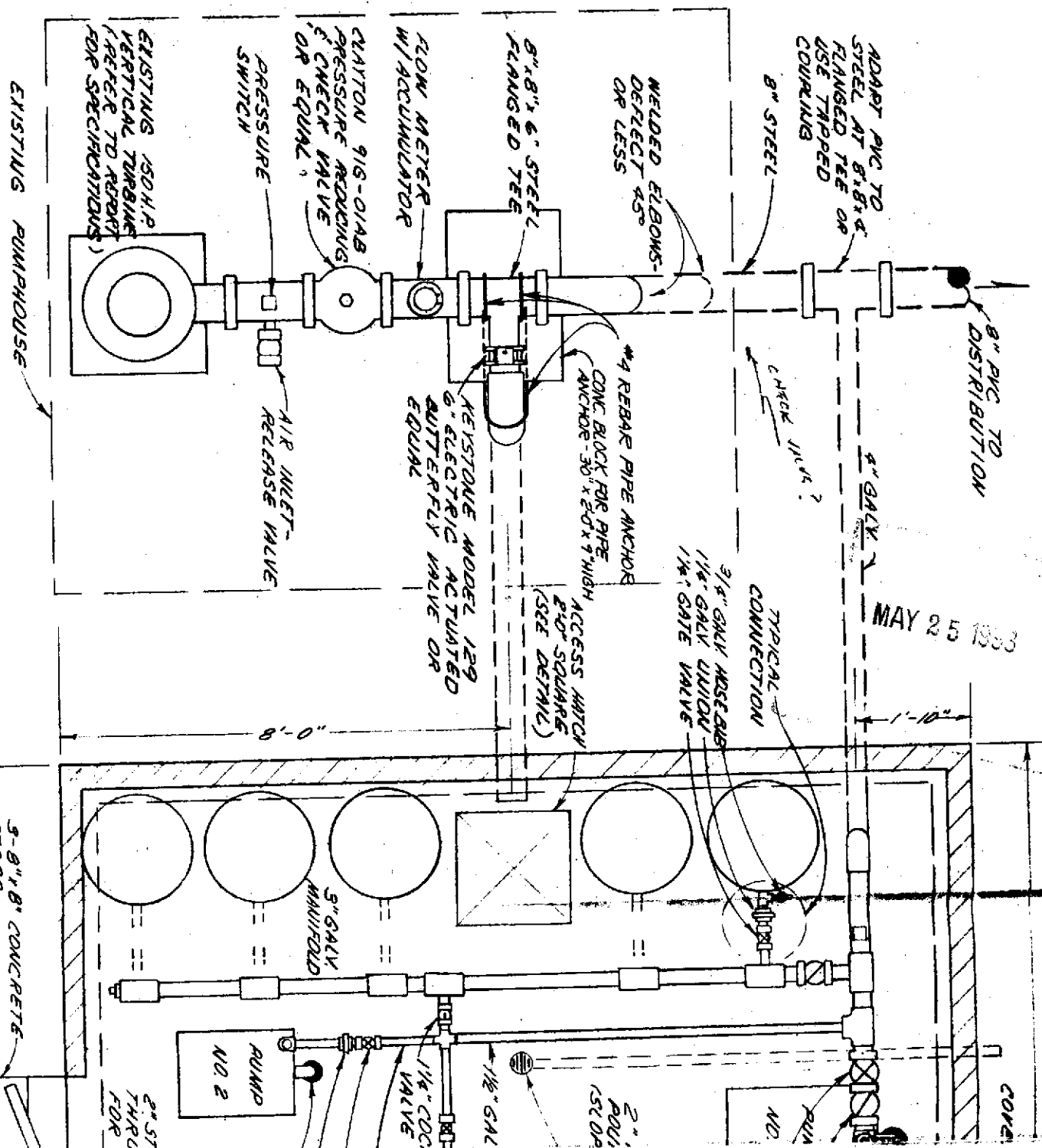
SIDE



MAY 25 1993

44,000 GA

TOP VIEW



MAY 25 1963

State of Idaho
Department Of Water Resources
WELL INSPECTION FORM

If well is associated with water right, provide WR Permit No. 95-7883
Otherwise provide legal description and a sketch map and/or address so that the well can be located easily.

1. Legal Description of Well Location:

Twp. 32 N, Rge. 4w Sec. 32, SW $\frac{1}{4}$ NE $\frac{1}{4}$ Gov. Lot _____

2. Owner: Herb Singer

Address: 948 Alabama St

City Bethel, State ID 83858

3. Casing $\geq$ 12 inches above ground: Yes X No _____

4. Access Port: Y X N _____ Static Water Level: 214'
Pressure Gauge: Y X N _____ (Broken) Casing Diameter: 30"
Flowing: Y _____ N X Temperature: Cold

5. Are there any obvious construction problems that may be a source for contamination or waste of water: Y _____ N X

If answer to Item 5 is Yes, describe in remarks and attach photo.

Remarks : _____

MICROFILMED

MAY 25 1993

MECKEL ENGINEERING & SURVEYING

402 Idaho Avenue
Coeur d'Alene, Idaho 83814
Phone (208) 667-4638

October 28, 1982

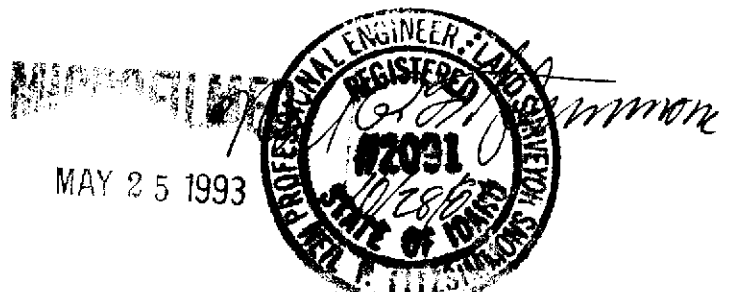
CONSTRUCTION INSPECTION SINGER WATER SYSTEM

On September 17, 1982, Mr. Herb Singer accompanied Mr. Neil FitzSimmons, P.E., L.S., Meckel Engineering and Surveying, on an inspection of the As-Built Singer Ranch Water Association Facilities. The system has been constructed to serve 16 lots on the East side of the subdivision along Singer Road. The 8-inch and 6-inch P.V.C. lines had been inspected during construction and a random check of depth at valve boxes on this date verified adequate depth of installation. The installed line extends Northeast of the reservoir to Singer Road then South on Singer Road to dead-end. Provisions were made to permit connection and installation of the complete loop in a future phase.

Fire hydrants and services stubouts are installed for the 16 units along Singer Road except the first lot on the West where the service is located at midlot on the South boundary. See notes on attached drawing sheet 1 of 2. The 2-inch irrigation services are capped at the surface with the anti-siphon loops deleted at this time.

Sheet 2 of 2 Reservoir and Pumphouse Details

The controls to fill the reservoir differ from the plans and are shown in schematic on the attached sketch. The well pump discharge delivers to the reservoir through a 6-inch manual butterfly valve that will be replaced by a compressed-air-actuated-electric-solenoid-controlled automatic butterfly valve now on hand. It is also possible for the well pump to discharge directly into the 8-inch distribution line through a manually operated gatevalve. The reservoir is filled as necessary to maintain an adequate volume for the two connections on the system.



The distribution system is pressurized with a 10 h.p. Goulds Centrifugal pump Model 3656 and two Well X-Trol WX 252 captive air tanks with the pressure maintained automatically in the 40 to 60 $\pm$ psi range at the pump house. A 2-inch PVC manifold was installed for this phase. Valves and gages are as required except the air inlet/release valve is deleted. Blockouts for the remaining pumps are capped. As more users come onto the system the additional pump capacity and pressure tanks will be installed.

The pump house is located at about the third point of the reservoir rather than at the end. The access hatch is outside the pump house and has a properly constructed overlapping cover. The floor drain was deleted by the contractor and the owner has bored drainage holes under the sill plates to the outside of the reservoir. There was no leakage or spillage evident at this inspection.

Conclusions and Recommendations

The installation has been constructed to deliver water to the first 16 lots. The pump capacity is in the range of 160-185 gpm and with the two pressure tanks could safely cycle up to 20 times per hour. It would be necessary to adjust the rate at which the pressure tanks refilled to insure the maximum number of cycles is not exceeded. During irrigation season, the system would handle 6 lots instantaneous domestic/irrigation demand.

The automatic well controls should be installed to maintain the reservoir level and prevent over pressuring the distribution system. The additional booster pumps and pressure tanks with appropriate controls could be installed at any time but would be required for more than six connections.

The loop to complete the distribution system will become necessary as additional units are built on. Without the loop, pressure drop may become excessive at the extreme services and discharge for fire protection would be inadequate. It is recommended this construction be concurrent with installation of additional reservoir booster pump capacity.

MAY 25 1993

PROOF OF BENEFICIAL USE

ANALYSIS SHEET

Permit No. 95-7883

Date: 11.29.88

General Considerations:

☒ Name same as permit
☒ Signature the same as permit holder
☒ Address change _____ If yes, prepare a data entry
☒ Proof received timely
Reinstated

Source of Water:

Surface water
Groundwater

1. well log in file
2. drilling permit

A. amount of drilling fee paid for proposed uses

Extent of Use and Rate of Diversion:

Rate of diversion appropriate for uses
Is rate or volume and fee appropriate?
Was permit holder indicated when water was first put to a beneficial use?

Measuring Device:

Is a measuring device or access port required?
Has one been installed?
Waiver or modification of measuring device requested

Remarks:

Proof acceptable

N/A Priority Calculation:
Date proof received

Date proof due

No. of days late

Priority date

NEW PRIORITY, DATE

SEND FILES TO DATA ENTRY AND THEN TO MICROFILM

RECEIVED

NOV 15 1988

STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES

PROOF OF BENEFICIAL USE

For Office Use Only
Fee Received 850.00
Date 11-16-88
Receipt # C003413
Receipt by [Signature]
Reviewed by [Signature]
Sent to region 0

Department of Water Resources

The Idaho Department of Water Resources will consider this form as a statement that the permit holder(s) has 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 or a completed field examination report prepared by a certified water right examiner who has been appointed by the department.

Permit No. 95-07883

Name(s) of Permit Holder: JINGER RANCH WATER ASSN.

Post Office Address: 948 ALABAMA ST. RATHDRUM ID 83858

Telephone No. 687-0966

Source of Water: GROUND WATER 150 HP PUMP

Extent of Use:

Domestic 9 + 16 STUBS (number of households) Stockwater _____ (number and type of stock)
Irrigation _____ (acres) Other/Remark 3/4" MEASURE PORT

Total rate and/or volume for which proof is submitted .20 cfs _____ acre-feet

Show the date water was first diverted and beneficially used under this permit: 12/14/78

Measuring Device: Required? ☐ Yes ☒ No
Installed? ☐ Yes ☐ No

Fee enclosed \$ 50.00
(See License Examination Fee Schedule)

Flow Measurement Port: Required? ☒ Yes ☐ No
Installed? ☐ Yes ☐ No

Person to contact to accompany the Department representative during the field examination:

(Name)

NOT RECORDED

JAN 10 1989

(Address)

The above information 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.

10/10/88
Date

x Herbert Singer Pres.
Signature of Permit Holder (and title, if appropriate)

2-1-1

RECEIVED

AUG 5 1964

**WELL LOG AND REPORT OF THE
STATE RECLAMATION ENGINEER OF IDAHO**

Form No. 2-1-1-1 Well No. 1 County Kootenai

Owner Oscar Sinner and Lorenze Sinner

Address 1st dring, 1st o

Owner E. J. Waller

Address Port Hills, Idaho

Well location N. Sec. 20 T. 52 R. 12E. 12N. 12E.

Size of drilled hole 30"

Total depth of well 234

Give depth to standing water from the ground 211 Water temp. 52 °Fahr.

On "Pumping Test" delivery was g.p.m. or c.f.s. Drawdown was feet.

Size of pump and motor used to make test

Length of time of test hours minutes.

If flowing well, give flow c.f.s. or g.p.m. and of shut off pressure.

If flowing well, describe control valve

(TYPE AND SIZE OF VALVE, ETC.)

Water will be used for Irrigation Weight of casing per lineal foot

Thickness of casing 1/2" Casing material steel

(STEEL, CONCRETE, WOOD, ETC.)

Diameter, length and location of casing 234 ft. 30"

(CASING 12" IN DIAMETER OR LESS, GIVE INSIDE DIAMETER;
CASING OVER 12" IN DIAMETER, GIVE OUTSIDE DIAMETER)

CASING RECORD

Blow Casing	From Foot	To Foot	Length	Remarks—casing, grouting, etc.
20"	0	234	234	

MICROFILMED

JAN 10 1989

Number and size of perforations 600 1/2" x 1/4" slot 201 feet to 228 feet from ground

Date of commencement of well Feb. 6, 1964 Date of completion of well June 25, 1964

ENGINEER

[illegible]

This mail was drafted under my supervision and the above information is complete, true and correct to the best of my knowledge and belief.

E. J. Wall.

Aug. 3 1944

License No. 222

MICROFILMED

STAFF REVIEW OF REQUESTS FOR EXTENSION OF TIME

Permit Number 95-7883

- Y Date Received stamp
Y Fee receipted
Y Name on request same as on permit
Y Address same as on permit
Y Proof due date correct
Y Period of request correct
Y Signature same as on permit
Y First extension request
N Permit holder named as defendant in 1983 Idaho Power lawsuit
Y Is extension filed before proof due date?
 Date extension received _____
 Proof due date - _____
 Days late _____
 Priority date _____
 Adjusted priority date _____
N Is delay caused by litigation?
 Date litigation began _____
 Date litigation completed _____
 Period of delay _____
 New proof due date _____
Y Is there commencement of works?
 ____ Cover letter number
 ____ Rolodex card updated

Remarks: Approval on due diligence

Reviewed by: Rita

Date: 12-12-1983

MICROFILMED

DEPARTMENT OF WATER RESOURCES
- STAFF ANALYSIS -

Item Initial Date

Application No. Singer 95-7883

☒ Source
☒ Point of Diversion
☒ County
☒ Quantity of Water and Period of Use
☒ Description of Diverting Works
☒ Time required for B/U of water
☒ Place of Use or Acres Irrigated
☒ Map
☒ Signature
☒ Fee

(1) SK 12-15-78

In form to receipt

(2) _____

Send Copies to:

_____ Idaho State Health Department
_____ Idaho Fish and Game Department
_____ Bureau of Land Management

(3) SK 12-15-78

☒ Panhandle Health
_____ Request Special Use Permit from U.S.F.S.
_____ Request Easement from B.L.M.
_____ Request Information from Applicant
_____ Request Dam Safety Information

(4) SK 12-15-78

In form for advertising

(5) _____

Platted on Map No. _____

(6) _____

Located within Water District No. _____

(7) _____

Critical groundwater area: yes _____ no ☒

(8) _____

Groundwater levels:

_____ Declining, ☒ Stable, _____ Increasing
(comment) _____

(9) _____

Other rights on the same place of use

(10) _____

Comments: _____

(11) SK 1/11/79

Affidavit of Publication received(date) 1/4/79

(12) _____

Final date for protests January 15, 1979
Protests received: yes _____ no ☒

(13) _____

All requested information received from agencies or
applicant: yes ☒ no _____

(14) _____

Action recommended:

☒ Approve _____ Deny

RECEIVED
JAN 26 1979

Department of Water Resources

2-14-79 Proposed Priority

_____ Reason for Reduction _____

☒ Measuring device required

_____ See attached sheet for other conditions of
approval

_____ No special conditions for approval

(15) District Northern

By Bob Haynes Date 1-22-79