

**STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT**

A. GENERAL INFORMATION

Permit No. 63-1227

1. Owner: Steven For Cindy L. Whitaker Phone No. 166-2967

Current Address: 21.2 Box 2332 Kennewick, Ida 93601

2. Accompanied by: Steven EXAM. DATE: 8-13-91

Address: Same Phone No. 466-2987

Relationship to Permit Holder: OWNER

3. Source: redundant tributary to NA

B. OVERLAP REVIEW

1. Other water rights with same place of use: None

Copies Attached

2. Other water rights with same point of diversion: None
☐ Copies Attached ☐ Copies of Field Exam's 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



Scale: 1" = _____

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

☐ **Aerial Photo Attached**
(required for irrigation of 10 acres or more).

(required for all but single household domestic groundwater, and stockwater.

System Description (continued)

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

This well is 173' deep, has a static water level of 18' deep; a pumping level of 25' deep. The casing is 16" and makes use of two 7½ hp motors with pumps. The discharge is 6" on both motors. The system pumps either into a concrete ditch to water fields or supplements canal water to water other fields.

☐ 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
Submersible	NA (2 motors)	7½ hp	NA	NA	16" on both

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

5. Point(s) of Diversion:

Ident. No.	Gov't. Lot	¼	¼	¼	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
			sw	nw	16	3n	1w	Ada	Quads/Verification/Aerial

6. Place(s) of Use:

Indicate Method of Determination

Twp.	Rge.	Sec.	NE¼				NW¼				SW¼				SE¼				Totals
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
3n	1w	16					13	27	37	10									87
		17	31																31
																			118

Note: from the map/photo it appears that the acreage irrigated in these tracts > 37. However, the total acreage allowed under this permit = 118, so the acreage shown for these tracts cannot be increased. Do not use this space

Dec 1/27/92

Do not use this space

D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
<i>None</i>						

2. Measurements:

Theoretical; $\frac{7\frac{1}{2} \cdot 8.8 \cdot 70}{25 + (2.3 \cdot 0)} = \frac{46.2}{75} \cdot 1.96 \times 2 = 3.71 \text{ cfs}$ ^{2 motors}

Theoretical is the only measurement device available!

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

1. Measured Method:

Theoretical 3.71 cfs

2. Alternate Method for Checking Purposes:

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 Amp x .001732 = _____ (6)

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

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \frac{118}{125} \cdot 4.5 = 581$ ⁵⁸¹

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 2.86 \times 245 \times 1.9835 = 1140.906$

$V = \text{Smaller of } V_{IR} \text{ and } V_{D.R.} = 581.0$

2. Volume Calculations for Other Uses:

H. REMARKS AND OVERLAP REVIEW ANALYSIS

Both wells flow out of the same thing, from two different PVC pipes to supplement local water. It is impossible to measure them any other way than Theoretical.

Actual acres = 123. Permit limit = 118

Acres omitted are in NENW Sec 16.

± NWNW

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use From	To	Rate of Diversion Q (cfs)	Annual Volume V (afa)
Irrigation	3/15	1/15	2.36 cfs	531.5 afa
				531
				531
				531.5 afa
Totals:			2.36 cfs	531.5 afa

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

DAVID T. GRAY

Signature

[Signature]

Certification Date

12-15-91

Field Report Preparation Date

12-15-91



CONSULTANT SEAL

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

Form 238-I
05/90

Department of Water Resources

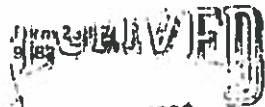
WELL INSPECTION FORM

If well is associated with water right, provide WR# 63-10677
Otherwise provide legal description and a sketch map and/or address
so that the well can be located easily.

1. Legal Description: TWP 3n, Rge 1w, Sec. 16, sw 1/4 nw 1/4
or Lot _____.
2. Owner: Steven Whitaker
Address Rt. 2 Box 2332, City Pampa, St. Tx
3. Casing $\geq$ 12 inches above ground: Yes X No _____
4. Access Port: Yes ✓ No ✗ Static Water Level: 15'
Pressure Gauge: Yes _____ No X Casing Diameter: 6"
Flowing: Yes X No _____ Temperature: NA
5. Are there any obvious construction problems that may be a
source for contamination or waste of water: Yes _____ No X

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

Remarks: Well is in fine condition



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

USE TYPEWRITER OR
BALLPOINT PEN

NOV 29 1988

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.

PH

1. WELL IDENTIFICATION Name <u>Steven M. Whitaker</u> Rt. #2, Box 2332 Address <u>Nampa, ID 83651</u> Owner's Permit No. <u>63-10677</u>		7. WATER LEVEL Static water level <u>18</u> feet below land surface. Flowing? ☐ Yes ☐ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ of. Quality _____ <i>Describe artesian or temperature zones below.</i>																																																																																																	
2. NATURE OF WORK <u>63-88-W-179</u> ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)		8. WELL TEST DATA ☐ Pump ☐ Bailer ☐ Air ☐ Other _____ <table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>		Discharge G.P.M.	Pumping Level	Hours Pumped																																																																																													
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3. PROPOSED USE ☐ Domestic ☒ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)		9. LITHOLOGIC LOG <table border="1"><thead><tr><th>Bore Diam.</th><th>Depth From To</th><th>Material</th><th>Water Yes No</th></tr></thead><tbody><tr><td>28"</td><td>0 8</td><td>Silty Soil</td><td></td></tr><tr><td></td><td>8 14</td><td>Calechie</td><td></td></tr><tr><td></td><td>14 24</td><td>Sand & Gravel (Peb. 1 1/2")</td><td></td></tr><tr><td></td><td>24 30</td><td>Coarse Sand & Pebbles-1 1/2"</td><td></td></tr><tr><td></td><td>30 41</td><td>Sand, Gravel, River Boulders</td><td></td></tr><tr><td></td><td>41 43</td><td>Coarse Sand</td><td>X</td></tr><tr><td></td><td>43 60</td><td>Coarse Sand & Boulders</td><td>X</td></tr><tr><td></td><td>60 69</td><td>Brown Clay</td><td></td></tr><tr><td></td><td>69 73</td><td>Sand & Clay (turning to</td><td></td></tr><tr><td></td><td></td><td>sand at end of run)</td><td></td></tr><tr><td></td><td>73 80</td><td>Fine to Med. Sand</td><td>X</td></tr><tr><td></td><td>80 93</td><td>Brn. Clay (Sm. Stk. Sand at 91')</td><td></td></tr><tr><td></td><td>93 95</td><td>Sandy Clay</td><td></td></tr><tr><td></td><td>95 103</td><td>Lt. Brn. Clay</td><td></td></tr><tr><td></td><td>103 116</td><td>Fine to Med. Sand</td><td>X</td></tr><tr><td></td><td>116 123</td><td>Brn. Clay</td><td></td></tr><tr><td></td><td>123 125</td><td>Sandy Brn. Clay</td><td></td></tr><tr><td></td><td>125 129</td><td>Khaki Colored Clay</td><td></td></tr><tr><td></td><td>129 130</td><td>Sandy Clay</td><td></td></tr><tr><td></td><td>130 134</td><td>Coarse Sand</td><td>X</td></tr><tr><td></td><td>134 138</td><td>Clay</td><td></td></tr><tr><td></td><td>138 170</td><td>Sand</td><td>X</td></tr><tr><td></td><td>170 173</td><td>Clay</td><td></td></tr></tbody></table>		Bore Diam.	Depth From To	Material	Water Yes No	28"	0 8	Silty Soil			8 14	Calechie			14 24	Sand & Gravel (Peb. 1 1/2")			24 30	Coarse Sand & Pebbles-1 1/2"			30 41	Sand, Gravel, River Boulders			41 43	Coarse Sand	X		43 60	Coarse Sand & Boulders	X		60 69	Brown Clay			69 73	Sand & Clay (turning to				sand at end of run)			73 80	Fine to Med. Sand	X		80 93	Brn. Clay (Sm. Stk. Sand at 91')			93 95	Sandy Clay			95 103	Lt. Brn. Clay			103 116	Fine to Med. Sand	X		116 123	Brn. Clay			123 125	Sandy Brn. Clay			125 129	Khaki Colored Clay			129 130	Sandy Clay			130 134	Coarse Sand	X		134 138	Clay			138 170	Sand	X		170 173	Clay	
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4. METHOD DRILLED ☐ Rotary ☐ Air ☐ Hydraulic ☒ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____		10. Work started <u>9/25/88</u> finished <u>9/27/88</u>																																																																																																	
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <table border="1"><thead><tr><th>Thickness</th><th>Diameter</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>.250 inches</td><td>16 inches</td><td>+2 feet</td><td>40 feet</td></tr><tr><td>.250 inches</td><td>16 inches</td><td>60 feet</td><td>100 feet</td></tr><tr><td>.250 inches</td><td>16 inches</td><td>110 feet</td><td>130 feet</td></tr><tr><td>.250 inches</td><td>16 inches</td><td>170 feet</td><td>173 feet</td></tr></tbody></table> Was casing drive shoe used? ☐ Yes ☒ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation _____ inches by _____ inches <table border="1"><thead><tr><th>Number</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</td></tr></tbody></table> Well screen installed? ☒ Yes ☐ No Manufacturer's name <u>Roscoe Moss</u> Type <u>Wirewrap</u> Model No. _____ Diameter <u>1 1/2</u> Slot size <u>0.40</u> Set from <u>40</u> feet to <u>60</u> feet Diameter <u>1 1/2</u> Slot size <u>0.40</u> Set from <u>130</u> feet to <u>170</u> feet Gravel packed? ☒ Yes ☐ No ☐ Size of gravel <u>3/8</u> - Placed from <u>18</u> feet to <u>173</u> feet Surface seal depth <u>18'</u> Material used in seal: ☐ Cement grout ☐ Bentonite ☒ Pudding 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 <u>2"</u>		Thickness	Diameter	From	To	.250 inches	16 inches	+2 feet	40 feet	.250 inches	16 inches	60 feet	100 feet	.250 inches	16 inches	110 feet	130 feet	.250 inches	16 inches	170 feet	173 feet	Number	From	To	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were applied with at the time the rig was removed. Pete Cope Drilling Co., Inc. Firm Name _____ Firm No. <u>213</u> <u>6505 West Chinden Blvd.</u> Address <u>Meridian, ID 83642</u> Date <u>9/28/88</u> Signed by (Firm Official) <u>Pete Cope</u> and (Operator) <u>Frank Chastain</u>																																																																	
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LOCATION OF WELL Sketch map location must agree with written location Subdivision Name _____ Lot No. _____ Block No. _____ Inty <u>Ada</u> NW 1/4 Sec. <u>16</u> T. <u>3N</u> N/S, R. <u>1W</u> E/W.		USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT																																																																																																	

63-16677



well with 2
7½ hp pumps. South
portion of property.
Note: Access lost



well flows into
concrete ditch;
water joins
ditch rights that
lie on the south
of property

63-10677



view of
west field

Note, here the
well & ditch water
come under the
road to water
field West.



Looking East from
well.



looking East
down corn field.