

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 36-8733

Exam Date: 4/17/2012

1. Current Owner: FAIRY MADARIETA
PO BOX 355
HAGERMAN ID 83332-0355
(208)837-4585
2. Accompanied by: Dario Leija
Phone No: 837-4964
Address: 2743 S. 900 E, *Hagerman* 83332
Relationship to Permit Holder: current owner of home

3. SOURCE

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER

SE1/4SE1/4NE1/4

Sec. 22, Twp 07S, Rge 13E, B.M.

GOODING County

Method of Determination: **GPS point taken on 4/17/2012**

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
07S	13E	22				X													

Method of Determination: **GIS and aerial photography.**

3. ☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☐ Photo of Diversion and System Attached

4.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
	Submersible	1.5			1 1/4 inch pipe

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

D. FLOW MEASUREMENTS

None

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Theoretical yield:

$$Q = \frac{8.8 \times (Hp) \times (Eff)}{H}$$

Where: Hp = 1.5 Hp (per Eaton Drilling)

Eff = 70% (assumed)

H = elevation distance + 2.31 x operating pressure (assume elevation difference of 299.0 feet based on well log pumping level during well test and operating pressure of 60 psi).

$$H = 149.0 \text{ feet} + (2.31 \times 40 \text{ psi}) = 241.4$$

$$Q = \frac{8.8 \times (1.5) \times (0.70)}{241.4}$$

Q = 0.04 cfs **Recommend permitted rate of 0.04 cfs.****F. VOLUME CALCULATIONS****Not required for domestic uses per new Beneficial Use Examination Rules implemented 3/29/2012.****G. NARRATIVE/REMARKS/COMMENTS**

Application for permit 36-8733 was filed on March 2, 1995 for the diversion of 0.04 cfs of groundwater for domestic use associated with an existing home. Permit 36-8733 was issued on May 19, 1995 and Proof of Beneficial Use was filed on May 30, 1995.

Eaton Drilling indicated the system consists of one well and a 1.5 HP submersible pump with depth to water at 149 ft. A theoretical estimate of the well yield indicates that it can produce at least the permitted rate of 0.04 cfs, so it is recommended that license 36-8733 be issued for the IDWR standard of 0.04 cfs for domestic use. A volume estimate is not required for domestic use per new Beneficial Use Examination Rules implemented 3/29/2012.

Note, during the field exam it was discovered that the permit owner Fairy Madarieta, is deceased. After licensing the current owner of the home, Dario Martinez Leija, will file for an ownership change. (see file for new address)

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	1/01 to 12/31	0.040 CFS	N/A
	<u>Totals:</u>	0.040 CFS	N/A

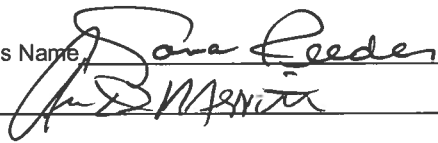
2. Recommended Amendments

___ 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

I. AUTHENTICATION

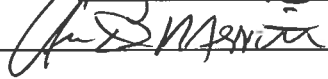
Field Examiner's Name



Date

4/19/12

Reviewer



Date

4/30/12

Current Home Owner

Dario Martinez Leija

2743 S 900 E. Hagerman 83332

208-837-4964

Eaton's 4/18/12 via Phone.

1.5 1996

1 1/4 in.

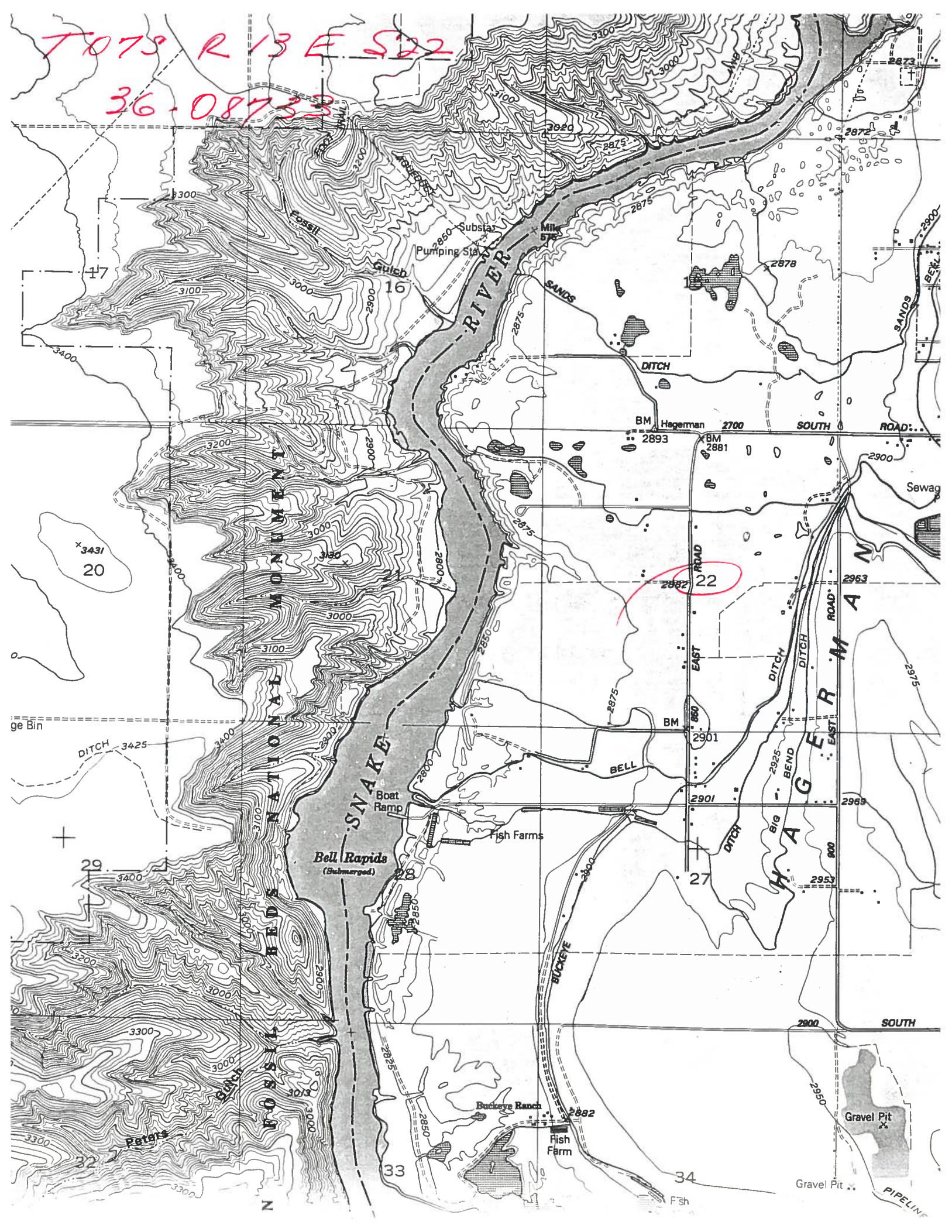
189' (pump) 149' to water

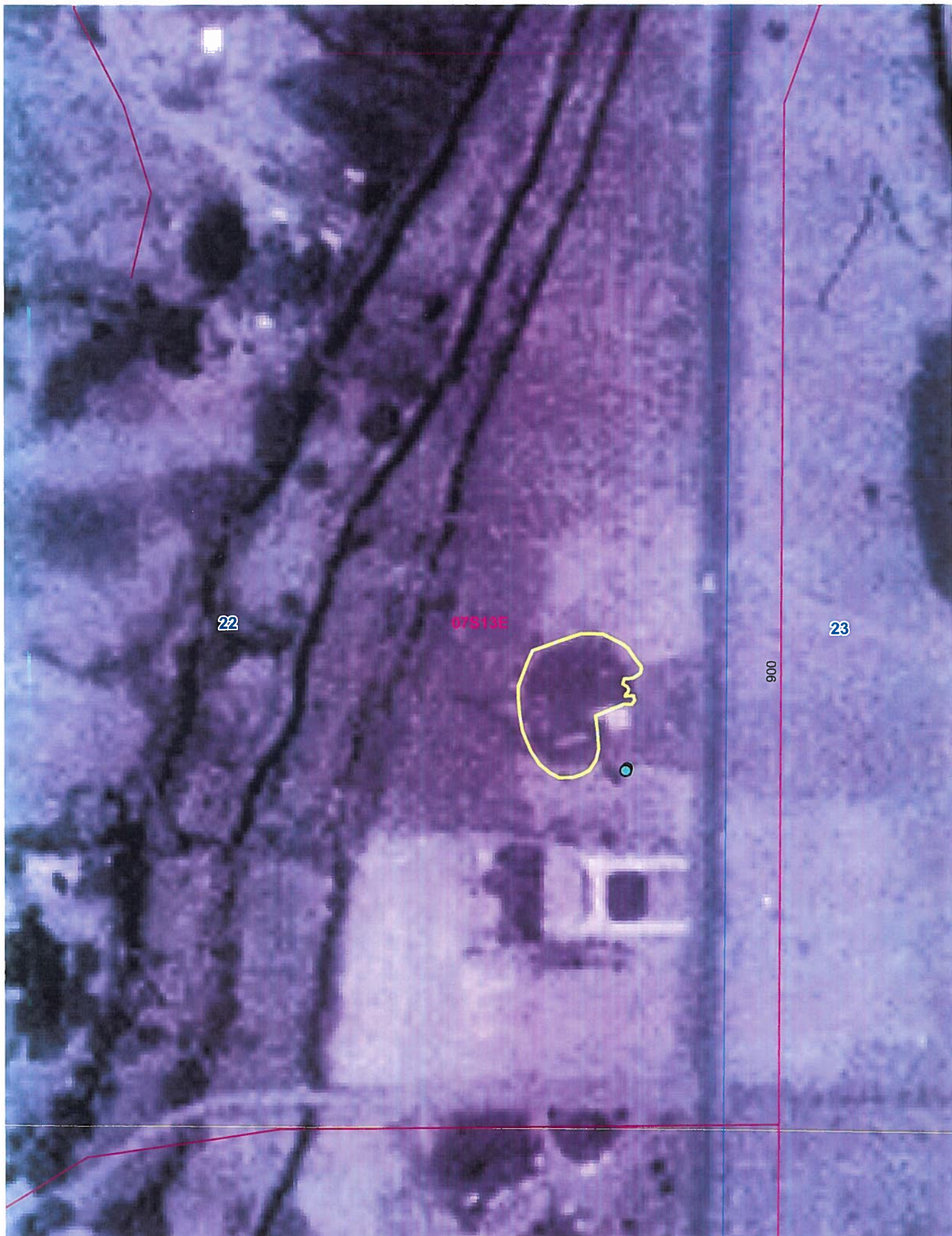
CA220 Pressure tank

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUSE TYPEWRITER OR
BALLPOINT PENState law requires that this report be filed with the Director, Department of Water Resources
within 30 days after the completion or abandonment of the well.

1. WELL OWNER Name <u>Felix Madarieta</u> Address <u>R61 Hagerman</u> Owner's Permit No. <u>36-90-S-111</u> <u>OK</u>	7. WATER LEVEL Static water level <u>149 1/2</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 <u>-85</u> OF. Quality _____ Describe artesian or temperature zones below.																																																																																								
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Well diameter increase ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)	8. WELL TEST DATA ☐ Pump ☐ Bailer ☐ Air ☐ Other _____ <table border="1" style="width:100%"><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></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 <u>78589</u> <table border="1" style="width:100%"><thead><tr><th rowspan="2">Bore Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td>8</td><td>0</td><td>1 1/2</td><td>Top Soil</td><td> </td><td> </td></tr><tr><td>8</td><td>1 1/2</td><td>2 1/2</td><td>Rock</td><td> </td><td> </td></tr><tr><td>8</td><td>2 1/2</td><td>5 1/2</td><td>Clay/lt Rock</td><td> </td><td> </td></tr><tr><td>6</td><td>5 1/2</td><td>7 1/2</td><td>Gray LAVA</td><td> </td><td> </td></tr><tr><td>6</td><td>7 1/2</td><td>10 1/2</td><td>Black LAVA</td><td> </td><td> </td></tr><tr><td>6</td><td>10 1/2</td><td>13 1/2</td><td>Gray LAVA</td><td> </td><td> </td></tr><tr><td>6</td><td>13 1/2</td><td>14 1/2</td><td>circus</td><td> </td><td> </td></tr><tr><td>6</td><td>14 1/2</td><td>16 1/2</td><td>lost cuttings Med Hard</td><td> </td><td> </td></tr><tr><td>6</td><td>16 1/2</td><td>17 1/2</td><td>circus</td><td> </td><td> </td></tr><tr><td>6</td><td>17 1/2</td><td>18 1/2</td><td>Med Hard</td><td> </td><td> </td></tr><tr><td>6</td><td>18 1/2</td><td>19 1/2</td><td>Hard</td><td> </td><td> </td></tr><tr><td>6</td><td>19 1/2</td><td>19 1/2</td><td>circus little water</td><td> </td><td> </td></tr><tr><td>6</td><td>19 1/2</td><td>21 1/2</td><td>Med Hard</td><td> </td><td> </td></tr></tbody></table>	Bore Diam.	Depth		Material	Water		From	To	Yes	No	8	0	1 1/2	Top Soil			8	1 1/2	2 1/2	Rock			8	2 1/2	5 1/2	Clay/lt Rock			6	5 1/2	7 1/2	Gray LAVA			6	7 1/2	10 1/2	Black LAVA			6	10 1/2	13 1/2	Gray LAVA			6	13 1/2	14 1/2	circus			6	14 1/2	16 1/2	lost cuttings Med Hard			6	16 1/2	17 1/2	circus			6	17 1/2	18 1/2	Med Hard			6	18 1/2	19 1/2	Hard			6	19 1/2	19 1/2	circus little water			6	19 1/2	21 1/2	Med Hard		
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4. METHOD DRILLED ☒ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____	RECEIVED JAN 14 1991 Department of Water Resources Southern Region Office																																																																																								
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <table border="1" style="width:100%"><thead><tr><th>Thickness</th><th>Diameter</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>.025 inches</td><td>6 3/4 inches</td><td>2 feet</td><td>58 feet</td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </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 ☐ Gun Size of perforation _____ inches by _____ inches <table border="1" style="width:100%"><thead><tr><th>Number</th><th>From</th><th>To</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> Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>18</u> 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 _____		Thickness	Diameter	From	To	.025 inches	6 3/4 inches	2 feet	58 feet													Number	From	To																																																																	
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6. LOCATION OF WELL Sketch map location <u>must</u> agree with written location. N W E 2 Subdivision Name _____ Lot No. _____ Block No. _____ County <u>Gooding</u> NE 1/4 SE 1/4 Sec. <u>22</u> , T. <u>7</u> N ☐ S ☒ R. <u>13</u> E ☐ W ☒	10. Work started <u>10 Dec 90</u> finished <u>11 Dec 90</u>																																																																																								
11. DRILLERS CERTIFICATION I We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Eaton</u> Firm No. <u>26</u> Address <u>Wendell</u> Date <u>11 Dec 90</u> Signed by (Firm Official) _____ and (Operator) <u>R. Peterson</u>																																																																																									

36-08733



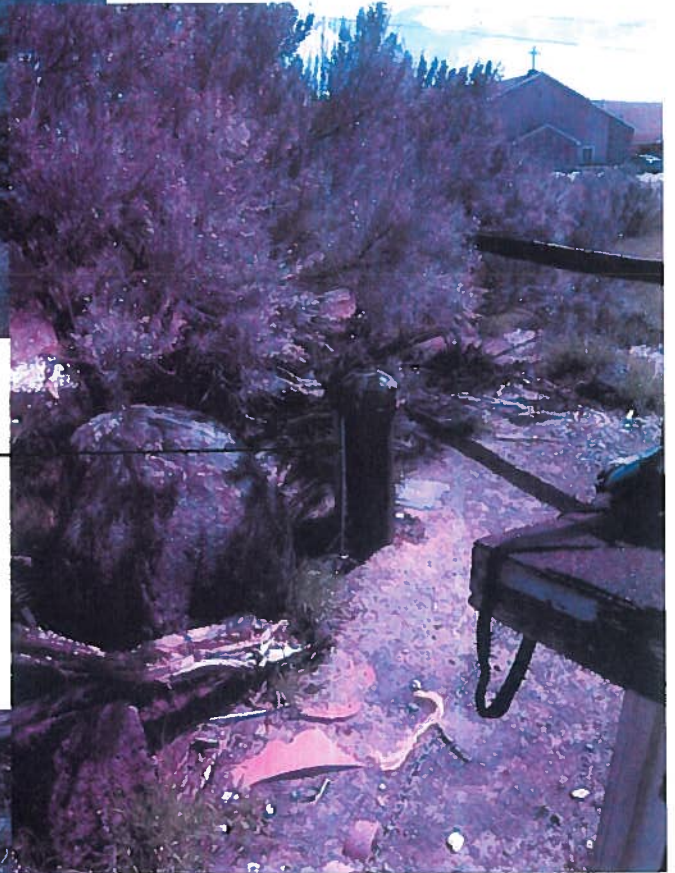
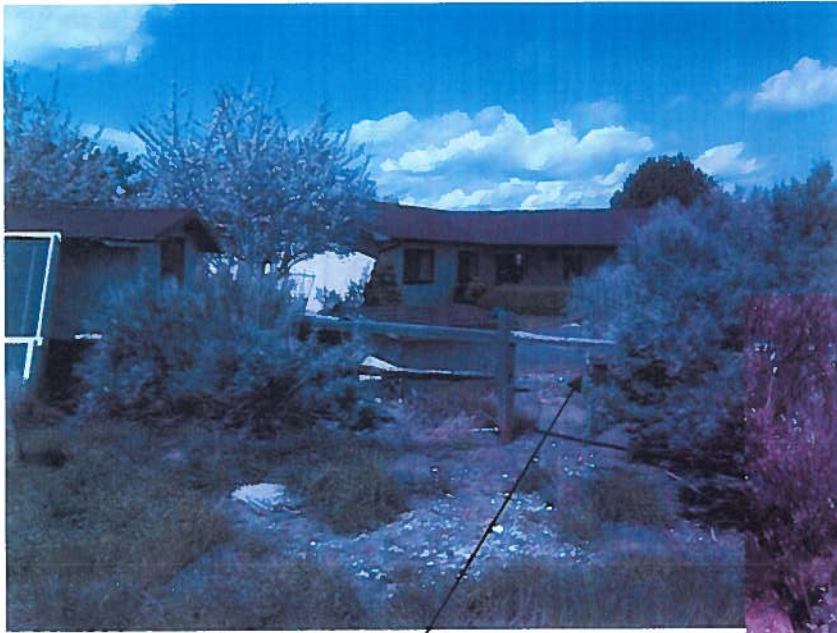


22

07S13E

23

900



Well head from different angles; no tag

