

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-8374

Exam Date: 8/30/2012

1. Current Owner: RICHARD ARTHUR OLSEN
251 W THORNCREEK RD
SHOSHONE ID 83352
(208) 539-7072

2. Accompanied by: owner

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 SW1/4SW1/4 Sec. 14, Twp 04S, Rge 17E, B.M. LINCOLN County

Method of Determination: Field visit and GPS

2.

PLACE OF USE: DOMESTIC AND STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04S	17E	14												X					

Method of Determination: Field visit

3. ☐ NA Delivery System Diagram Attached.
☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required).
☒ Aerial Photo Attached (required for irrigation of 10+ acres).
☒ Photo of Diversion and System Attached

4.

Well or Diversion

ID No.* Motor Make Hp Motor Serial No. Pump Make
A0018512—all information regarding the pump/motor is unknown

Pump Serial No. or Discharge Size**D. FLOW MEASUREMENTS**

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
NONE						

2. Measurements: No measurement is required pursuant to Rule 35.01.r of the Beneficial Use Rules.

E. FLOW CALCULATIONS

Measured Method: The flow rate of the well will be estimated using a horsepower theoretical calculation as follows:

Standard efficiency of 70%

Horsepower = 1.5 horsepower (Mr. Olsen wasn't sure the size of the pump but he said that he knows it isn't the smallest pump possible. I will use 1.5 horsepower since no other information is available.)

Depth to water = 260 (static water level)

Pressure = 10 psi, the well does open discharge into a storage tank

$$8.8 \times 1.5 \times .70 / 260 + (2.31 \times 10) = 9.24 / 283.1 = 0.03 \text{ cfs}$$

There is a 1000 gallon storage tank on the system and I believe it's necessary because the pump may not be able to keep up with demand. It appears that the diversion rate of 0.03 cfs may be realistic given the circumstances and I recommend that this right be licensed with a maximum diversion rate of 0.04 cfs. Since 0.03 cfs is so close to the domestic diversion rate, Mr. Olsen should be given the benefit of the doubt but I don't believe that diversion rate above 0.04 cfs can be defended.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: NA

2. Volume Calculations for Other Uses: ~100 small farm animals x 2 gpd x 365 days = 0.2 af

$$2 \text{ buffalo} \times 12 \text{ gpd} \times 365 = 0.01 \text{ af (round up to 0.1 af)}$$

0.3 afa total for stockwater

Standard volume of 1.2 afa will be used for domestic use. There isn't much lawn but Mr. Olsen waters some trees on the property.

G. NARRATIVE/REMARKS/COMMENTS

Currently, county taxlot data shows that the BLM owns the land at the POU. I asked Mr. Olsen who owns that land and he said that he does and won't sell it as long as he's alive.

Have conditions of permit approval been met? ☒ 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	01/01 to 12/31	0.040 CFS	1.20 AF
STOCKWATER	01/01 to 12/31	0.020 CFS	0.30 AF
<u>Totals:</u>		0.040 CFS	1.50 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

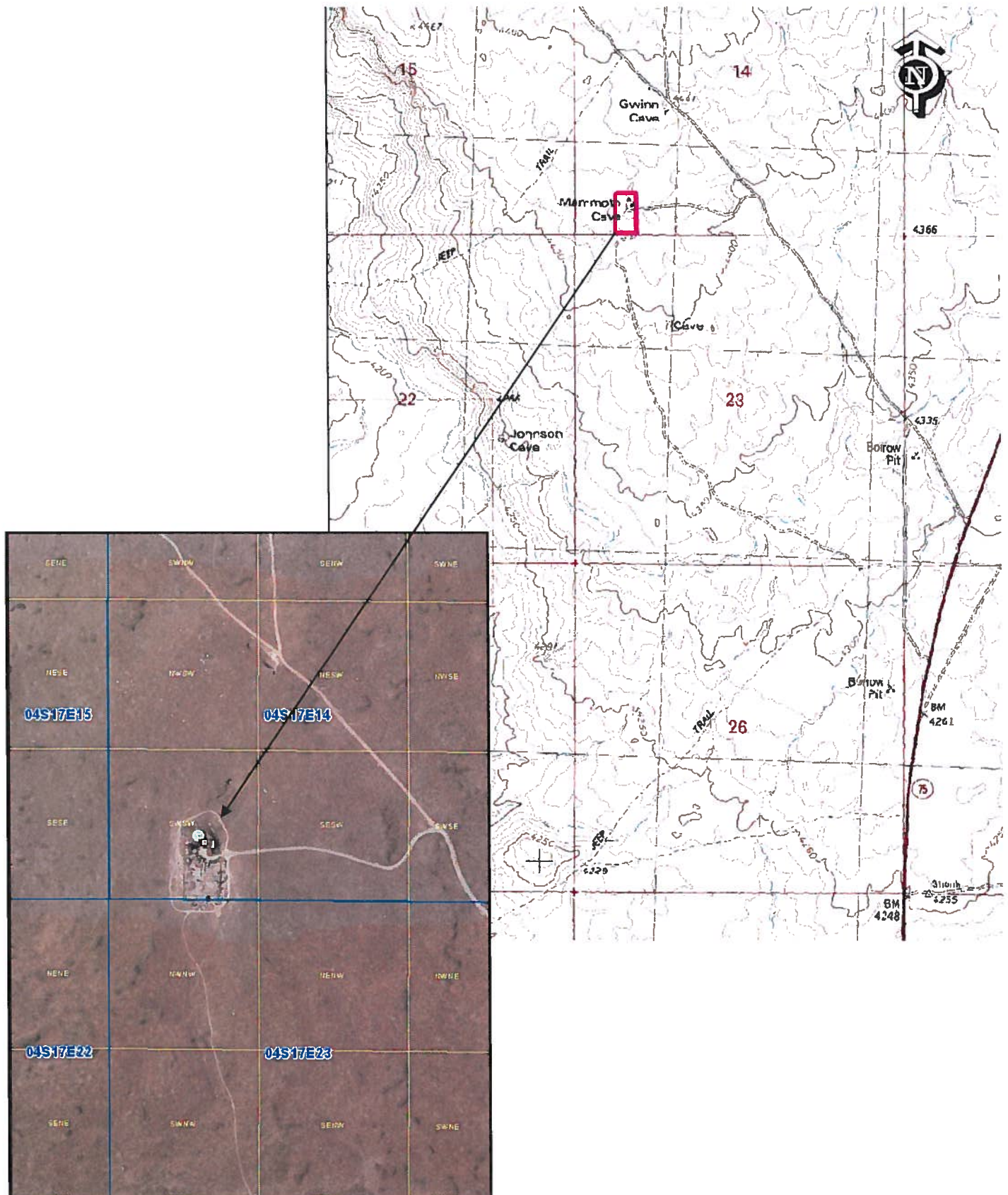
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

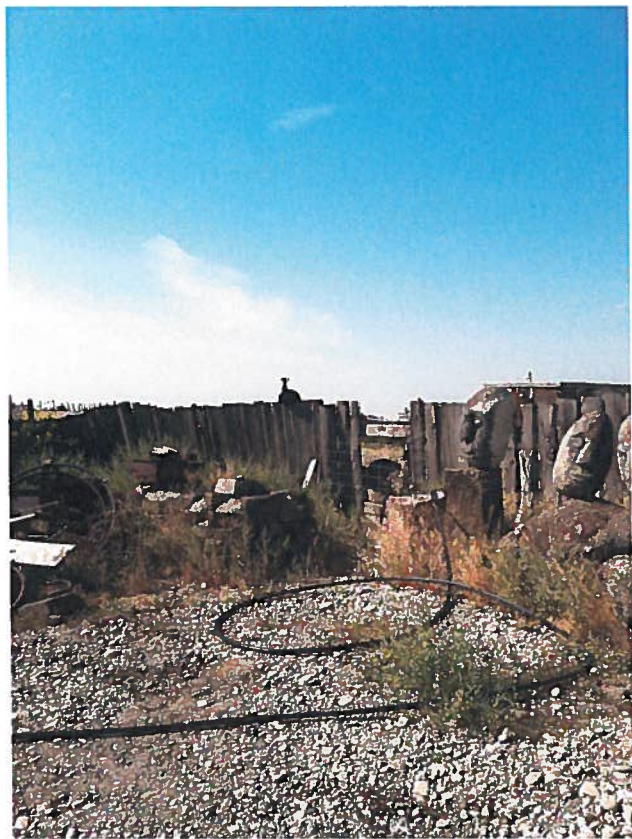
I. AUTHENTICATION

Field Examiner's Name Chris Adams Date 8/31/12

Reviewer _____ Date _____

MAP/Aerial Imagery





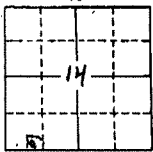
PHOTOS





WELL DRILLER'S REPORT

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

1. WELL OWNER Name <u>Richard Olson</u> Address <u>Shoshone Box 649</u> Owner's Permit No. _____	7. WATER LEVEL Static water level <u>250</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 ____ °F. Quality _____																																																																																																																								
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____	8. WELL TEST DATA ☐ Pump ☐ Baller ☐ Air ☐ Other _____ <table border="1" style="width: 100%; border-collapse: collapse;"> <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																																																																																																																					
Discharge G.P.M.	Pumping Level	Hours Pumped																																																																																																																							
3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)	9. LITHOLOGIC LOG <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Hole Diam.</th> <th>Depth From</th> <th>To</th> <th>Material</th> <th>Water Yes</th> <th>No</th> </tr> </thead> <tbody> <tr><td>8</td><td>0</td><td>3</td><td>top soil</td><td>X</td><td></td></tr> <tr><td></td><td>3</td><td>19</td><td>gray lava</td><td>X</td><td></td></tr> <tr><td>6</td><td>19</td><td>40</td><td>gray lava</td><td>X</td><td></td></tr> <tr><td></td><td>40</td><td>44</td><td>Red lava</td><td>X</td><td></td></tr> <tr><td></td><td>44</td><td>54</td><td>gray lava</td><td>X</td><td></td></tr> <tr><td></td><td>54</td><td>77</td><td>Red lava</td><td>X</td><td></td></tr> <tr><td></td><td>77</td><td>85</td><td>gray lava</td><td>X</td><td></td></tr> <tr><td></td><td>85</td><td>141</td><td>Red lava</td><td>X</td><td></td></tr> <tr><td></td><td>141</td><td>183</td><td>Gray lava</td><td>A</td><td></td></tr> <tr><td></td><td>183</td><td>210</td><td>Red lava</td><td>X</td><td></td></tr> <tr><td></td><td>210</td><td>262</td><td>Gray lava</td><td>X</td><td></td></tr> <tr><td></td><td>262</td><td>265</td><td>Red lava</td><td>X</td><td></td></tr> <tr><td></td><td>265</td><td>270</td><td>Red sand</td><td>X</td><td></td></tr> <tr><td></td><td>270</td><td>315</td><td>Brown clay</td><td>X</td><td></td></tr> <tr><td></td><td>315</td><td>332</td><td>Gray lava</td><td>X</td><td></td></tr> <tr><td></td><td>332</td><td>351</td><td>Brown clay</td><td>X</td><td></td></tr> <tr><td></td><td>351</td><td>439</td><td>Gray lava</td><td></td><td>V</td></tr> <tr><td></td><td>439</td><td>476</td><td>Red lava</td><td></td><td>V</td></tr> <tr><td></td><td>476</td><td>500</td><td>Brown lava</td><td></td><td>V</td></tr> </tbody> </table>	Hole Diam.	Depth From	To	Material	Water Yes	No	8	0	3	top soil	X			3	19	gray lava	X		6	19	40	gray lava	X			40	44	Red lava	X			44	54	gray lava	X			54	77	Red lava	X			77	85	gray lava	X			85	141	Red lava	X			141	183	Gray lava	A			183	210	Red lava	X			210	262	Gray lava	X			262	265	Red lava	X			265	270	Red sand	X			270	315	Brown clay	X			315	332	Gray lava	X			332	351	Brown clay	X			351	439	Gray lava		V		439	476	Red lava		V		476	500	Brown lava		V
Hole Diam.	Depth From	To	Material	Water Yes	No																																																																																																																				
8	0	3	top soil	X																																																																																																																					
	3	19	gray lava	X																																																																																																																					
6	19	40	gray lava	X																																																																																																																					
	40	44	Red lava	X																																																																																																																					
	44	54	gray lava	X																																																																																																																					
	54	77	Red lava	X																																																																																																																					
	77	85	gray lava	X																																																																																																																					
	85	141	Red lava	X																																																																																																																					
	141	183	Gray lava	A																																																																																																																					
	183	210	Red lava	X																																																																																																																					
	210	262	Gray lava	X																																																																																																																					
	262	265	Red lava	X																																																																																																																					
	265	270	Red sand	X																																																																																																																					
	270	315	Brown clay	X																																																																																																																					
	315	332	Gray lava	X																																																																																																																					
	332	351	Brown clay	X																																																																																																																					
	351	439	Gray lava		V																																																																																																																				
	439	476	Red lava		V																																																																																																																				
	476	500	Brown lava		V																																																																																																																				
4. METHOD DRILLED ☒ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____	RECEIVED MAY 31 1978 Department of Water Resources																																																																																																																								
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other <u>Iron</u> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Thickness</th> <th>Diameter</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>1250 inches</td> <td>6 inches</td> <td>1 foot</td> <td>19 feet</td> </tr> <tr> <td>_____ inches</td> <td>_____ inches</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ inches</td> <td>_____ inches</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ inches</td> <td>_____ inches</td> <td>_____ feet</td> <td>_____ 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" style="width: 100%; border-collapse: collapse;"> <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 _____ 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>19</u> Material used in seal: ☐ Cement grout ☐ Puddling clay ☒ Well cuttings 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	1250 inches	6 inches	1 foot	19 feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	Number	From	To	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	10. Work started <u>5-4</u> finished <u>5-9</u>																																																																																								
Thickness	Diameter	From	To																																																																																																																						
1250 inches	6 inches	1 foot	19 feet																																																																																																																						
_____ inches	_____ inches	_____ feet	_____ feet																																																																																																																						
_____ inches	_____ inches	_____ feet	_____ feet																																																																																																																						
_____ inches	_____ inches	_____ feet	_____ feet																																																																																																																						
Number	From	To																																																																																																																							
_____ perforations	_____ feet	_____ feet																																																																																																																							
_____ perforations	_____ feet	_____ feet																																																																																																																							
_____ perforations	_____ feet	_____ feet																																																																																																																							
6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name _____ Lot No. _____ Block No. _____ County <u>LINCOLN</u> S.W. ¼ S.W. ¼ Sec. <u>14</u>, T. <u>4</u> S., R. <u>17</u> E.	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>C.B. Eaton</u> Firm No. <u>16</u> Address <u>Wendell</u> Date <u>5-11-78</u> Signed by (Firm Official) <u>Jamuelton</u> and (Operator) <u>James Singh</u>																																																																																																																								

USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT