

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-33048

Exam Date: 9/9/2013

1. Current Owner: 15881 PURPLE SAGE ROAD LLC
15881 PURPLE SAGE RD
CALDWELL ID 83607
(208)459-8898
2. Accompanied by: Tom Krasowski
Phone No: Same
Address: Same
Relationship to Permit Holder: Manager

- | 3. <u>SOURCE</u> | <u>TRIBUTARY</u> |
|------------------|------------------|
| 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 SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER NW1/4NW1/4 Sec. 33, Twp 05N, Rge 03W, B.M.
CANYON County

Method of Determination: Arc Map (Aerial Photo); GPS – Latitude N.43°43.932', Longitude – W.116°42.497'; Datum – NVD83.

2. **PLACE OF USE:** COMMERCIAL

[illegible]

PLACE OF USE: FIRE PROTECTION

Twp	Rge	Sec	<u>NE</u>				<u>NW</u>				<u>SW</u>				<u>SE</u>				
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>Totals</u>
05N	03W	33						X											

Method of Determination: Arc Map (Aerial Photo); Tax Lots.

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>
<u>Unknown</u>	<u>Franklin</u>	<u>5</u>	<u>Unknown</u>	<u>Franklin</u>	<u>2"</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

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

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>
<u>N/A</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>#</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

2. Measurements: No field measurement. System pressurized by 1,000 gallon steel pressure tank. Non-operational pressure during field exam of 50 psi. Operating pressure range between 40 psi and 60 psi.

E. FLOW CALCULATIONS

 Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

$$Q = 8.8 \times 0.7 \times 5/70 + (2.31 \times 40) = 30.8/162.4 = 0.19 \text{ cfs}$$

$$Q(\text{theoretical}) = 0.19 \text{ cfs} < 0.35 \text{ cfs } Q(\text{permit})$$

$$HP = 5$$

$$Z = 70'$$

$$P = 40 \text{ psi (Assumed)}$$

Appears that the current pumping system cannot attain the permit diversion rate of 0.35 cfs.

Recommend the current theoretical pumping capacity of 0.19 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

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

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

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

2. Volume Calculations for Other Uses: Commercial Mobile Home Community – 49 Total Units

$$V = 0.60 \text{ AF/unit}$$

$$V = 0.60 \text{ AF/unit} \times 49 \text{ units} = 29.4 \text{ AFA}$$

G. NARRATIVE/REMARKS/COMMENTS**WATER SUPPLY SYSTEM:**

A 5-hp submersible pump diverts water from a ground water well to serve 49 mobile home units located in the Purple Sage Community development. Water is pumped to a 1,000-gallon steel pressure tank located near the well in an 'A' frame structure. Water is discharged from the pressure tank through a 6" PVC water main line to serve the 49 mobile home units.

FIRE PROTECTION:

Two (2) 'Flush Ports' are located near each end of the mobile home park along the main entry road. The two 'Flush Ports' are comprised of 2" service lines which reduce to 1 1/2" galvanized pipe for connection of a fire hose.

Note: Irrigation water for the Purple Sage Community development is provided by the Black Canyon Irrigation District. A pump in a wet well discharges to a pressurized irrigation system for irrigation of the lawn, landscaping, and common areas.

OVERLAP ANALYSIS:

Point of Diversion: There are no point of diversion overlaps for Water Right Permit No. 63-33048.

Place of Use: There are no place of use overlaps for Water Right Permit No. 63-33048.

Have conditions of permit approval been met? ☒ Yes ☐ No

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.35	&/or	N/A
Beneficial Use Limit	0.35	&/or	N/A
System Measurement	0.19(theoretical)	&/or	N/A
Proof Fee Amount	1.0	&/or	N/A
Recommended Amount	0.19	&/or	N/A

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
COMMERCIAL	01/01 to 12/31	0.190 CFS	29.4 AFA
FIRE PROTECTION	01/01 to 12/31	0.190 CFS	N/A
<u>Totals:</u>		0.190 CFS	29.4 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

I. AUTHENTICATION

Field Examiner's Name Rick Collingwood Date 1/22/14

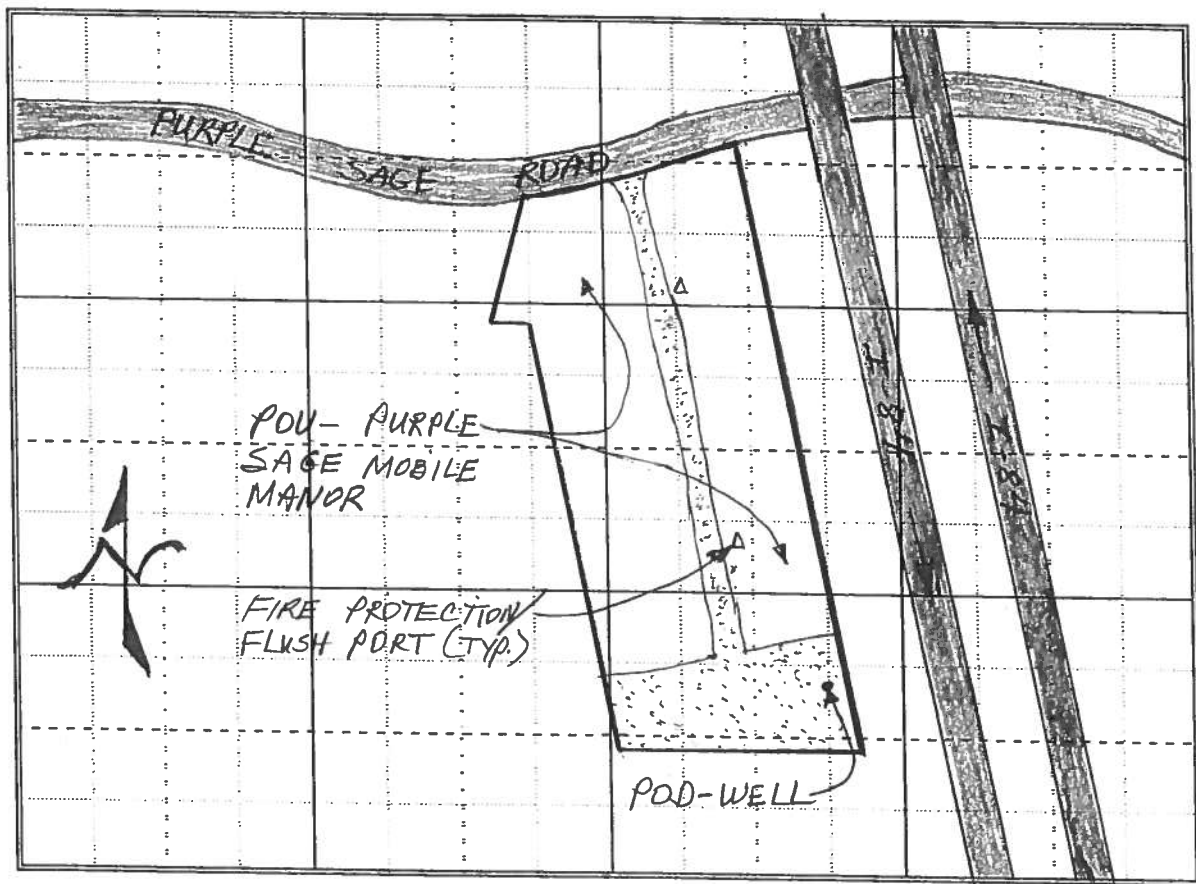
Reviewer _____ Date _____

63-33048

ESRI AERIAL PHOTO - 2012



3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.



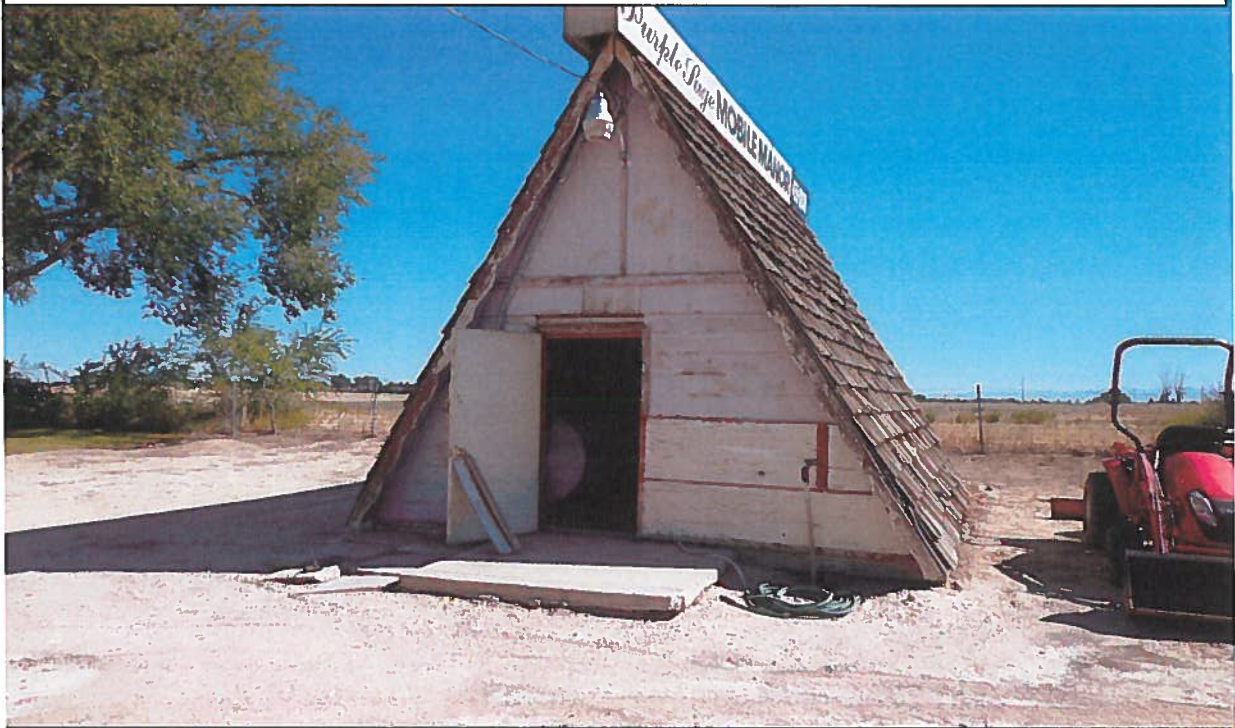
Scale: 1" = NTS

- ☐ 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)
- ☒ Photo of diversion and system attached

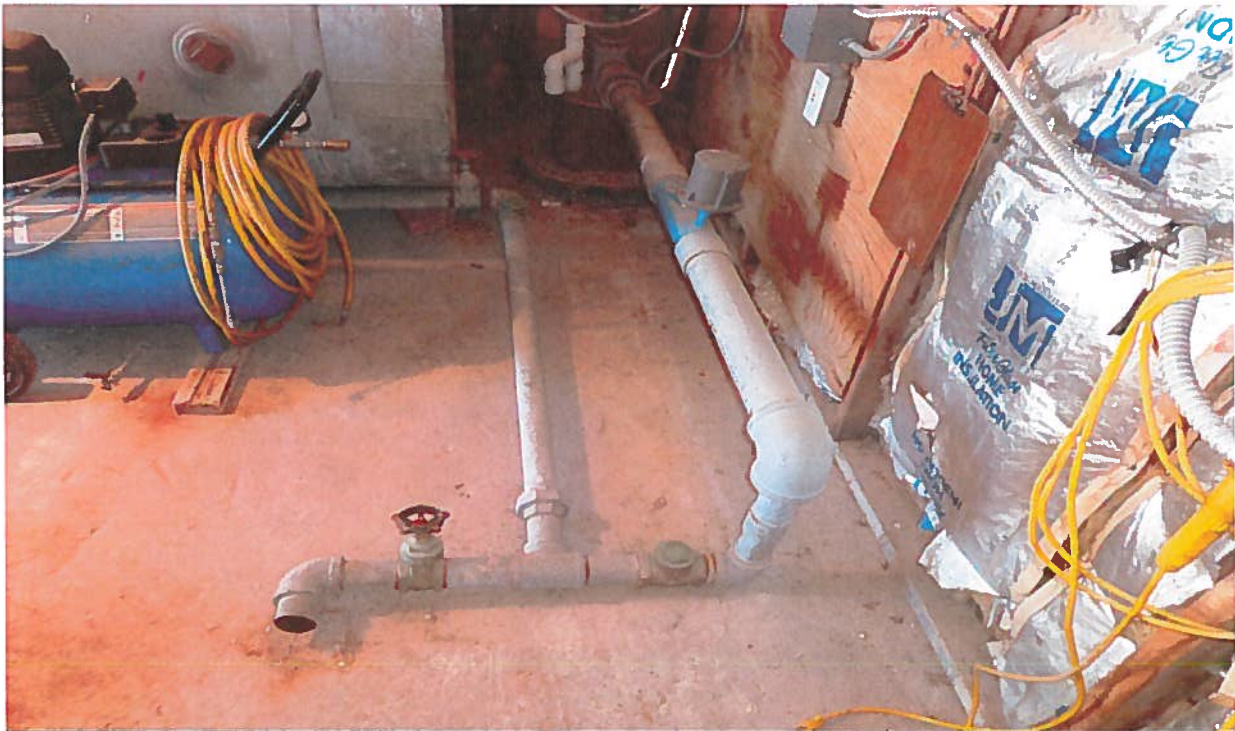
FIELD EXAM PHOTOS

Water Right Permit: 63-33048
PLS: NW1/4, NW1/4 Section 33, T.5N, R.03W
Field Examiner: RC

Field Exam Date: 9-9-13



Point of Diversion: View northeasterly of the well and pump house for the Purple Sage Community development.



Point of Diversion: View of the 12" ground water well casing and 2" galvanized steel discharge piping. Water is discharged to a 1,000-gallon steel pressure tank located in the well and pump house.



View inside the well and pump house of the 1,000-gallon steel pressure tank.



View of the typical fire protection 'flush ports'. A 2" galvanized steel riser reduces to 1 1/2" for fire hose connection. The development has two of the fire protection 'flush ports'.



View northerly of the typical 'wishing well' which is placed atop the fire protection 'flush ports'.



Place of Use: View northwesterly of the typical mobile home units in the Purple Sage Community development.

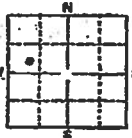
USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Reclamation

WELL DRILLER'S REPORT

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

RECEIVED
SEP 11 1969
Department of Reclamation

1. WELL OWNER Name <u>Mr. Trudell</u> Address <u>Caldwell Idaho</u> Owner's Permit No. _____		7. WATER LEVEL Static water level <u>46</u> feet below land surface Flowing? ☐ Yes ☒ No G.P.M. flow _____ Temperature <u>58</u> ° F. Quality <u>BEST NOT RETURNED</u> Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug	
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____		8. WELL TEST DATA ☒ Pump ☐ Bailor ☐ Other Discharge G.P.M. <u>878</u> Draw Down <u>32'</u> Hours Pumped <u>34</u>	
3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock		9. LITHOLOGIC LOG 041605 Hole Depth Material Water Diam. From To Yes No <u>12</u> <u>0</u> <u>3</u> <u>Silt</u> <u></u> <u></u> <u>11</u> <u>3</u> <u>12</u> <u>Clay Yellow</u> <u></u> <u></u> <u>11</u> <u>12</u> <u>30</u> <u>SAND</u> <u></u> <u></u> <u>11</u> <u>30</u> <u>40</u> <u>CLAY</u> <u></u> <u></u> <u>11</u> <u>40</u> <u>60</u> <u>SAND</u> <u></u> <u></u> <u>11</u> <u>60</u> <u>90</u> <u>SAND FINE</u> <u></u> <u></u> <u>11</u> <u>90</u> <u>120</u> <u>CLAY</u> <u></u> <u></u> <u>11</u> <u>120</u> <u>135</u> <u>SAND COARSE</u> <u></u> <u></u>	
4. METHOD DRILLED ☒ Cable ☐ Rotary ☐ Aug ☐ Other			
5. WELL CONSTRUCTION Diameter of hole <u>12</u> inches Total depth <u>8.3</u> feet Casing schedule: ☒ Steel ☐ Concrete Thickness Diameter From To <u>4</u> inches <u>12</u> inches <u>0</u> feet <u>80</u> 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 _____ 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 _____ feet to _____ feet Placed from _____ feet to _____ feet Surface seal? ☒ Yes ☐ No To what depth <u>18'</u> feet Material used in seal ☒ Cement grout ☐ Pudding clay			
6. LOCATION OF WELL Sketch map location must agree with written location.  County <u>Campan</u> <u>SULX NW 1/4 Sec 33 T. 5 N. 1/4 R. 3 E. 1/4</u>		10. Work started <u>7-30-69</u> finished <u>8-12-69</u>	
		11. DRILLER'S CERTIFICATION This well was drilled under my supervision and this report is true to the best of my knowledge. <u>HOLLOWAY DRILLING Co. 53</u> Driller's or Firm's Name _____ Number _____ Signature <u>May J. Holloway</u> Date <u>9-10-69</u>	

USE ADDITIONAL SHEETS IF NECESSARY