

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-12357

Exam Date: 10/15/2013

1. Current Owner: REGINA D NACHBAR
20796 LOWELL RD
CALDWELL ID 83605
(208)455-0918
- RICHARD H NACHBAR
20796 LOWELL RD
CALDWELL ID 83605
(208)455-0918
2. Accompanied by: Richard Nachbar
Phone No:
Address:
Relationship to Permit Holder: Same

3. SOURCE TRIBUTARY
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: 63-30406 (domestic use)

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT OF DIVERSION:**

GROUND WATER L1 SW1/4SW1/4, Sec. 22, Twp 03N, Rge 04W, B.M., CANYON County

Method of Determination: GPS N43°34.522 W116°48.592

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	04W	22											0.5						0.5
												L 1							

Total Acres: 0.5

Method of Determination: Aerial photo, field visit

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>
	Franklin	3		Grundfos	75S30-5

*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>
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2. Measurements:

System was not operating. No measurement made.

Theoretical:

$$Q = \frac{8.8 \times \text{hp} \times 0.7}{(2.31 \times \text{psi}) + \text{lift}} = \frac{8.8 \times 3 \times 0.7}{(2.31 \times 30) + 85'} = 0.119 = 0.12 \text{ cfs (rounded)}$$

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

F. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation:**

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.5 \text{ ac} \times 4.5 = 2.25 \text{ rounds to } 2.3 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.02 \times 1.9835 \times 260 = 10.3 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 2.3 \text{ af}$$

2. Volume Calculations for Other Uses: n/a

G. NARRATIVE/REMARKS/COMMENTS

System consists of a well with a 3 hp pump for irrigation. There is also a domestic pump in this well; however, this water right does not include the domestic use. The permit holder said the house pump sits about 90' below land surface and the irrigation well is located above that between 80' and 90'. I have used 85' for the depth to water in my theoretical calculation. There are risers for irrigation along the fence line. The land on the side of the driveway and tree lines are what is irrigated from this system. I told permit holder we could not include the land under the "Hip" program because it is just native vegetation and not a beneficial use of water. He stated that he had worked with Fish and Game to establish an area for birds and wildlife.

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>
IRRIGATION	03/01 to 11/15	0.020 CFS	2.3
<u>Totals:</u>		0.020 CFS	2.3

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 Kay Walker Date 10-17-2013

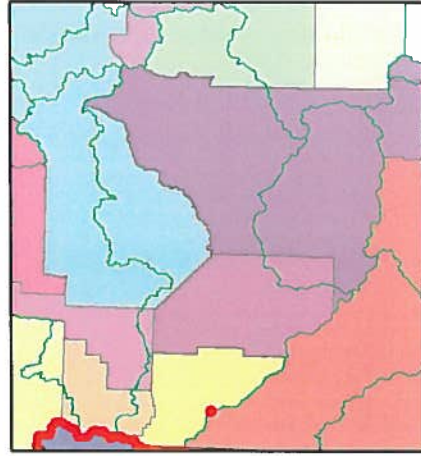
Reviewer _____ Date _____



Idaho Department of Water Resources

Water Right
63-12357
(IRRIGATION)

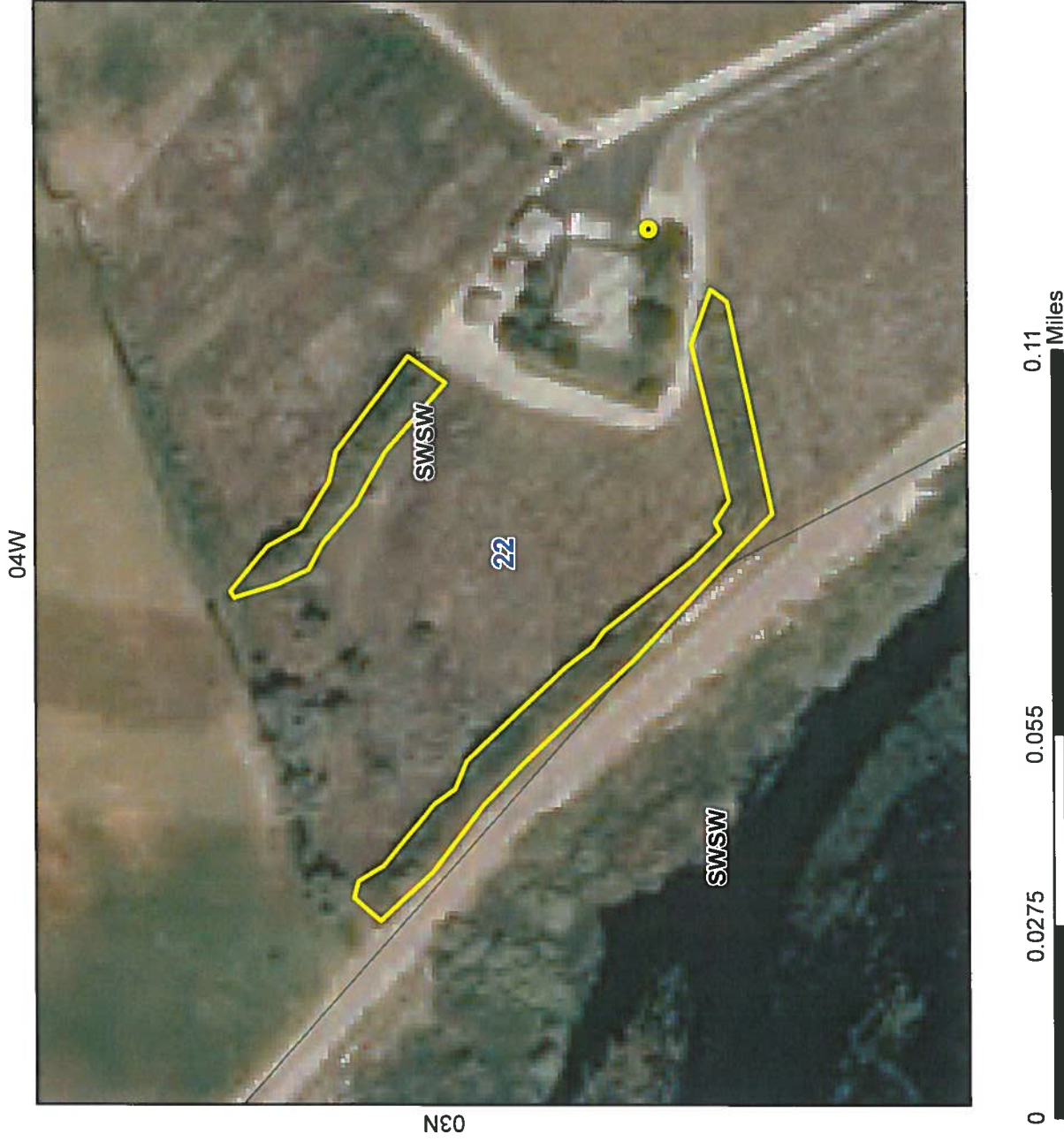
- Point of Diversion
- Place of Use
- State Outline
- Townships
- PLS Sections
- Quarter Quarters



Canyon County
IDWR Basin 63

Prepared by Walker, Kay

2009 Aerial Photography



October 15, 2013

Exam 63-12357



irrigation
along
driveway -
lawn is
irrigated
from domestic
pump.



pipeline
in field -
under "Hip"
program -
worked with
Idaho Fish &
Game



"Hip" program
area



typical
sage brush
in "Hip"
area



← pipeline
in field
under
"Hip" program



Well
with domestic
& irrigation
pumps

**IDAHO DEPARTMENT OF WATER RESOURCES
FIELD EXAMINERS
WELL INSPECTION FORM**

1. IDENTIFICATION # _____ (Tag #, etc.)

OTHER APPLICABLE # 63-12357 (Water right #, etc.)

2. OWNER Richard Nachbar Phone 455-0918

Address 20796 Lowell Rd City Caldwell

State ID Zip 83605 Email _____

3. WELL LOCATION (GPS required in Degrees Decimal Minutes – use PLS if GPS not available)

Lat. N 43° 34.522 Long. W 116° 48.592

Twp 3N Rge 4W Sec 22 $\frac{1}{4}$ SW $\frac{1}{4}$ SW

4. WELL CONSTRUCTION ☒ Well log attached ☐ Well log not found

Any obvious construction problems that may be a source for contamination or waste? ☐ Yes ☒ No

If yes, describe below &/or see attached (list any that apply): ☒ Photos ☐ Diagram ☐ Other

5. HYDROLOGIC INFORMATION

Static water if measured 27-30 ft. *← per Mr. Nachbar* Water temperature if measured _____ °F

Flowing artesian ☐ Yes ☒ No Pressure if measured 30 *← per Mr. Nachbar* psi

NOTES _____

INSPECTED BY Kay Walker DATE 10/15/2013

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCESUSE TYPEWRITER OR
BALLPOINT PEN

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>JOHN STATNER</u> Address <u>CANYON COUNTY-LOWELL RD. (20796)</u> Drilling Permit No. <u>63-91-2-116</u> Water Right Permit No. _____		7. WATER LEVEL Static water level <u>45</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 _____ 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 ☐ Bailor ☒ 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>75</td><td>100</td><td>1</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	75	100	1																																																						
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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>12</td><td>0 2</td><td>TOP SOIL</td><td>X</td></tr><tr><td>12</td><td>2 4</td><td>SANDY CLAY</td><td>X</td></tr><tr><td>12</td><td>4 9</td><td>HARD PAN</td><td>X</td></tr><tr><td>12</td><td>9 20</td><td>CLAY</td><td>X</td></tr><tr><td>8</td><td>20 29</td><td>CLAY</td><td>X</td></tr><tr><td>8</td><td>29 49</td><td>GRAVEL</td><td>X</td></tr><tr><td>8</td><td>49 51</td><td>BROWN CLAY</td><td>X</td></tr><tr><td>8</td><td>51 74</td><td>BLUE CLAY</td><td>X</td></tr><tr><td>8</td><td>74 83</td><td>HARD BLUE CLAY & SAND</td><td>X</td></tr><tr><td>8</td><td>83 90</td><td>BLUE CLAY</td><td>X</td></tr><tr><td>8</td><td>90 100</td><td>BROWN CLAY</td><td>X</td></tr><tr><td>8</td><td>100 130</td><td>BLUE SAND</td><td>X</td></tr><tr><td>8</td><td>130 136</td><td>BLUE SAND STONE WITH SUET STREAKS OF SAND</td><td>X</td></tr><tr><td>8</td><td>136 150</td><td>BLUE SAND</td><td>X</td></tr></tbody></table>		Bore Diam.	Depth From To	Material	Water Yes No	12	0 2	TOP SOIL	X	12	2 4	SANDY CLAY	X	12	4 9	HARD PAN	X	12	9 20	CLAY	X	8	20 29	CLAY	X	8	29 49	GRAVEL	X	8	49 51	BROWN CLAY	X	8	51 74	BLUE CLAY	X	8	74 83	HARD BLUE CLAY & SAND	X	8	83 90	BLUE CLAY	X	8	90 100	BROWN CLAY	X	8	100 130	BLUE SAND	X	8	130 136	BLUE SAND STONE WITH SUET STREAKS OF SAND	X	8	136 150	BLUE SAND	X
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4. METHOD DRILLED ☒ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____		RECEIVED AUG 26 1991 Department of Water Resources																																																													
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>8 inches</td><td>2 feet</td><td>78 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"><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>20</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 strings				Thickness	Diameter	From	To	250 inches	8 inches	2 feet	78 feet													Number	From	To																																					
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Describe access port _____		Work started <u>8-16-91</u> finished <u>8-20-91</u>																																																													
6. LOCATION OF WELL Sketch map location must agree with written location. <table border="1"><tr><td>N</td><td></td><td>E</td></tr><tr><td>W</td><td></td><td>E</td></tr><tr><td>S</td><td></td><td>E</td></tr></table> County <u>CANYON</u> Subdivision Name <u>Wanna Passon's</u> Lot No. _____ Block No. _____ SW SW 22 T 3N S R 4W E		N		E	W		E	S		E	11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. BILL DUTY Firm Name <u>DRILLING CO., INC.</u> Firm No. <u>82</u> Address <u>106 CALLOWAY</u> Date <u>8-22-91</u> <u>83605</u> Signed by (Firm Official) _____ and _____ (Operator) <u>Lakey, Mich</u>																																																				
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W		E																																																													
S		E																																																													



Well for Rt. 63-12357
10/15/2013