

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-33979

Exam Date: 4/5/2016

1. Current Owner:
DEER FLAT FREE METHODIST CHURCH INC
C/O RICK DAY 17703 BEET RD
CALDWELL ID 83607
(208)459-3845

2. Accompanied by: Rick Day
Phone No:
Address:
Relationship to Permit Holder: Manager

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: 63-12225

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

GROUND WATER L1 (NE¼NE¼) Sec. 3, Twp 03N, Rge 04W, B.M. CANYON County

Method of Determination:

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	3	0.1 L 1			4.0													4.1

Total Acres: 4.1

Method of Determination: ArcMap tools.

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.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
A0009445	Franklin Electric	3			

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: Not able to measure.

E. FLOW CALCULATIONS

Measured Method: Theoretical

Additional Computation Sheets Attached

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Efficiency = 0.70

Depth to water = 50 ft.

psi = 35

hp = 3

Theoretical = 0.14 cfs**Permit allowed = 0.17 cfs****License recommend for 0.12 cfs.****F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 4.1 * 4.5 = 18.5 \text{ af}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.12 * 260 * 1.9835 = 61.9 \text{ af}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 18.5 \text{ af}$$

2. Volume Calculations for Other Uses: None.

G. NARRATIVE/REMARKS/COMMENTS

Irrigation use was determined using aerial photography and visual observations. ArcMap tools measure an area of 4.1 acres irrigated on church property by the irrigation system. The permit for 10 acres will be reduced to the beneficial use found. A licensing amendment will be required to include the 0.1 acres found in L1 NENE QQ.

Overlap review found surface water source irrigation rights from irrigation companies, however no surface water shares are owned by the church, and water from an irrigation company is not delivered to the property. The well does service the fire protection use under water right 63-12225.

8" well (A0009445) has a 3 hp submersible pump installed. A well log was obtained and shows a depth of 78 ft. Static water level on the report is 16 ft, a lift of 50 ft is assumed. The system operates at 35 psi, so a theoretical flow rate of 0.14 cfs is calculated. The area irrigated of 4.1 acres limits the license to 0.12 cfs.

Condition R65 limited a combined diversion rate of 0.02 cfs per acre and 4.5 af. This condition will be changed at licensing to R69 since the beneficial use is less than 5 acres, and a combined use of 0.03 cfs could be used per department standards.

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>
IRRIGATION	03/01 to 11/15	0.12 CFS	18.5 AF
	<u>Totals:</u>	0.120 CFS	18.50 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 ☐ None

I. AUTHENTICATION

Field Examiner's Name Patrick Kelly Patrick Kelly Date 4-5-2016

Reviewer _____ Date _____



NENE 1

NWNW 4

Well Control House / Shed

POD - A0009445

POU - 4.1 acres
Rain Bird Sprinkler system

3

2

SENE

SWNW

Fire Protection Storage 63-12225
NOT connected to irrigation system

Deer Flat Free Methodist Church

Water Right License 63-33979

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.

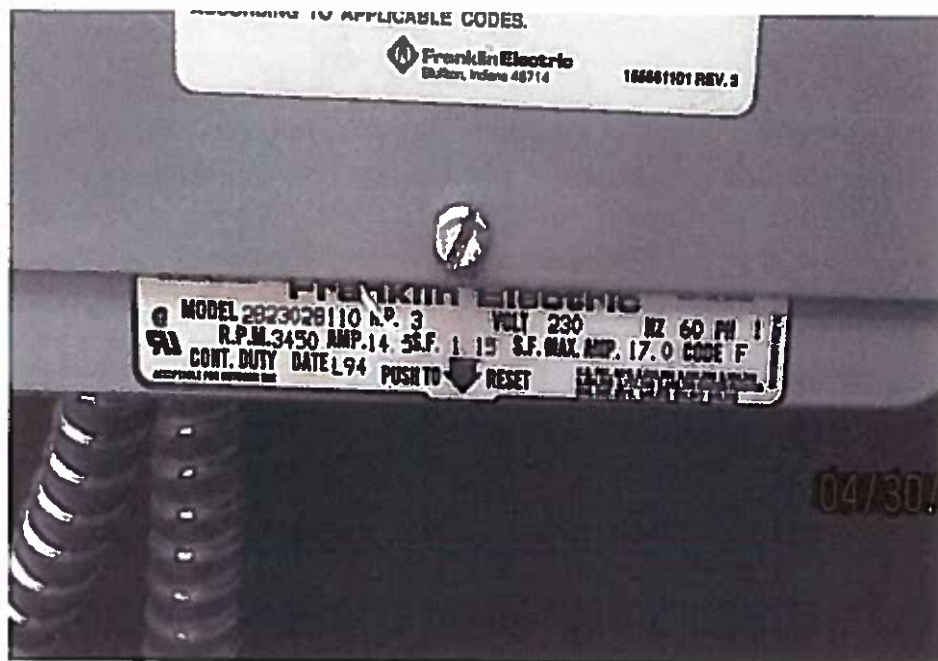
1. WELL OWNER DEER FLAT METHODIST Name <u>CHURCH</u> Address <u>Rte 6, CALDWELL, IDAHO</u> Owner's Permit No. _____		7. WATER LEVEL Static water level <u>16</u> feet below land surface Flowing? ☐ Yes ☐ No G.P.M. flow _____ Temperature _____ ° F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																																											
2. NATURE OF WORK ☐ New well ☐ Deepened ☒ Replacement ☐ Abandoned (describe method of abandoning) _____		8. WELL TEST DATA ☐ Pump ☐ Bailer ☒ Other <u>AIR</u> <table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Draw Down</th><th>Hours Pumped</th></tr></thead><tbody><tr><td><u>APPROX(50)</u></td><td><u>20</u></td><td><u>4 HOURS</u></td></tr></tbody></table>		Discharge G.P.M.	Draw Down	Hours Pumped	<u>APPROX(50)</u>	<u>20</u>	<u>4 HOURS</u>																																																				
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3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock		9. LITHOLOGIC LOG <u>40016</u> <table border="1"><thead><tr><th rowspan="2">Hole 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><u>10</u></td><td><u>0</u></td><td><u>8</u></td><td><u>TOP SOIL</u></td><td></td><td></td></tr><tr><td><u>10</u></td><td><u>8</u></td><td><u>17</u></td><td><u>CLAY</u></td><td></td><td></td></tr><tr><td><u>10</u></td><td><u>17</u></td><td><u>35</u></td><td><u>YELLOW SANDY CLAY</u></td><td></td><td></td></tr><tr><td><u>8</u></td><td><u>35</u></td><td><u>47</u></td><td><u>STICKY CLAY</u></td><td></td><td></td></tr><tr><td><u>8</u></td><td><u>47</u></td><td><u>63</u></td><td><u>SANDY TEXTURED CLAY</u></td><td></td><td></td></tr><tr><td><u>8</u></td><td><u>63</u></td><td><u>70</u></td><td><u>SAND FINE</u></td><td></td><td></td></tr><tr><td><u>8</u></td><td><u>70</u></td><td><u>75</u></td><td><u>GRAVEL MEDIUM</u></td><td></td><td></td></tr><tr><td><u>8</u></td><td><u>75</u></td><td><u>78</u></td><td><u>CLAY</u></td><td></td><td></td></tr></tbody></table>		Hole Diam.	Depth		Material	Water		From	To	Yes	No	<u>10</u>	<u>0</u>	<u>8</u>	<u>TOP SOIL</u>			<u>10</u>	<u>8</u>	<u>17</u>	<u>CLAY</u>			<u>10</u>	<u>17</u>	<u>35</u>	<u>YELLOW SANDY CLAY</u>			<u>8</u>	<u>35</u>	<u>47</u>	<u>STICKY CLAY</u>			<u>8</u>	<u>47</u>	<u>63</u>	<u>SANDY TEXTURED CLAY</u>			<u>8</u>	<u>63</u>	<u>70</u>	<u>SAND FINE</u>			<u>8</u>	<u>70</u>	<u>75</u>	<u>GRAVEL MEDIUM</u>			<u>8</u>	<u>75</u>	<u>78</u>	<u>CLAY</u>		
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4. METHOD DRILLED ☒ Cable ☐ Rotary ☐ Dug ☐ Other		5. WELL CONSTRUCTION Diameter of hole <u>8</u> inches Total depth <u>78</u> feet Casing schedule: ☒ Steel ☐ Concrete <table border="1"><thead><tr><th>Thickness</th><th>Diameter</th><th>From</th><th>To</th></tr></thead><tbody><tr><td><u>3/80</u> inches</td><td><u>8"</u> inches</td><td><u>0</u> feet</td><td><u>67</u> feet</td></tr><tr><td><u>250</u> inches</td><td><u>6</u> inches</td><td><u>67</u> feet</td><td><u>70</u> feet</td></tr><tr><td><u>250</u> inches</td><td><u>6</u> inches</td><td><u>70</u> feet</td><td><u>78</u> 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 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>JANSON</u> Type <u>STAINLESS</u> Model No. <u>405</u> Diameter <u>8</u> Slot size <u>30</u> Set from <u>70</u> feet to <u>75</u> feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No Size of gravel _____ Placed from _____ feet to _____ feet Surface seal? ☒ Yes ☐ No To what depth <u>35</u> feet Material used in seal ☐ Cement grout ☒ Puddling clay		Thickness	Diameter	From	To	<u>3/80</u> inches	<u>8"</u> inches	<u>0</u> feet	<u>67</u> feet	<u>250</u> inches	<u>6</u> inches	<u>67</u> feet	<u>70</u> feet	<u>250</u> inches	<u>6</u> inches	<u>70</u> feet	<u>78</u> feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	Number	From	To	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet																						
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6. LOCATION OF WELL Sketch map location must agree with written location. N W E S 63 by City Engineer J. R. County <u>CANYON</u> NE 1/4 Sec. <u>3</u> T. <u>3</u> N. R. <u>3</u> NW SE		10. Work started <u>12/74</u> finished <u>12/74</u> 11. DRILLER'S CERTIFICATION This well was drilled under my supervision and this report is true to the best of my knowledge. Driller's or Firm's Name <u>Rte 8 CALDWELL, IDAHO</u> Number <u>55</u> Address <u>Henneth, With</u> Signed By <u>1/6/75</u> Date																																																											



Point Of Diversion:
8" well located on
church property.



Well tag #A0009445



Pump information



Pump room. Manual switch to storage.

TRS	Process	Basin	Sequ Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
03N04W3	Water Right	63-136	BARKER ROSHOLT & SIMPSON LLP; BOISE PROJECT BOAI	BOISE RIVER	IRRIGATION	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
03N04W3	Water Right	63-137B	BARKER ROSHOLT & SIMPSON LLP; BOISE PROJECT BOAI	BOISE RIVER	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
03N04W3	Water Right	63-198AJ	DAVIS, THOMAS; HONSINGER LAW PLLC; NAMPA & MEF	BOISE RIVER	IRRIGATION																X	
03N04W3	Water Right	63-198AJ	DAVIS, THOMAS; HONSINGER LAW PLLC; NAMPA & MEF	MORES CREEK	IRRIGATION																X	
03N04W3	Water Right	63-199B	DAVIS, THOMAS; HONSINGER LAW PLLC; NAMPA & MEF	BOISE RIVER	IRRIGATION																X	
03N04W3	Water Right	63-199B	DAVIS, THOMAS; HONSINGER LAW PLLC; NAMPA & MEF	MORES CREEK	IRRIGATION																X	
03N04W3	Water Right	63-200A	BARKER ROSHOLT & SIMPSON LLP; BOISE PROJECT BOAI	BOISE RIVER	IRRIGATION	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
03N04W3	Water Right	63-200B	DAVIS, THOMAS; HONSINGER LAW PLLC; NAMPA & MEF	BOISE RIVER	IRRIGATION																X	
03N04W3	Water Right	63-200B	DAVIS, THOMAS; HONSINGER LAW PLLC; NAMPA & MEF	MORES CREEK	IRRIGATION																X	
03N04W3	Water Right	63-2106	UNITED STATES OF AMERICA ACTING THROUGH	FIVEMILE CREEK	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
03N04W3	Water Right	63-2109	UNITED STATES OF AMERICA ACTING THROUGH	MASON CREEK	IRRIGATION																X	
03N04W3	Water Right	63-233K	AMERICAN DITCH CO; BARKER ROSHOLT & SIMPSON LLF	BOISE RIVER	IRRIGATION	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
03N04W3	Water Right	63-2388A	UNITED STATES OF AMERICA ACTING THROUGH	BOISE RIVER	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
03N04W3	Water Right	63-2392B	DRAINAGE DISTRICT NO 3; NAMPA & MERIDIAN IRRIGAT	WASTE WATER	IRRIGATION																X	
03N04W3	Water Right	63-2392F	BOISE PROJECT BOARD OF CONTROL	WASTE WATER	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
03N04W3	Water Right	63-251A	UNITED STATES OF AMERICA ACTING THROUGH	BOISE RIVER	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
03N04W3	Water Right	63-2968	FARWEST LLC; GRAY, THOMAS P; KING, JAMES B; MC DE	GROUND WATER	IRRIGATION																X	
03N04W3	Water Right	63-30181	DAVIS, THOMAS; HONSINGER LAW PLLC; NAMPA & MEF	BOISE RIVER	IRRIGATION																X	
03N04W3	Water Right	63-30181	DAVIS, THOMAS; HONSINGER LAW PLLC; NAMPA & MEF	MORES CREEK	IRRIGATION																X	
03N04W3	Water Right	63-301A	UNITED STATES OF AMERICA ACTING THROUGH	BOISE RIVER	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
03N04W3	Water Right	63-302A	UNITED STATES OF AMERICA ACTING THROUGH	BOISE RIVER	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
03N04W3	Water Right	63-32695A	NAMPA & MERIDIAN IRRIGATION DISTRICT	GROUND WATER	IRRIGATION																X	
03N04W3	Water Right	63-32695B	NAMPA & MERIDIAN IRRIGATION DISTRICT	GROUND WATER	IRRIGATION																X	
03N04W3	Water Right	63-33251	BOISE PROJECT BOARD OF CONTROL	INDIAN CREEK	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
03N04W3	Water Right	63-33253	BOISE PROJECT BOARD OF CONTROL	TENMILE CREEK	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
03N04W3	Water Right	63-33739	NAMPA & MERIDIAN IRRIGATION DISTRICT	SPRINGS	IRRIGATION																X	
03N04W3	Water Right	63-33979	DEER FLAT FREE METHODIST CHURCH INC	GROUND WATER	IRRIGATION	0.1			4													4.1
03N04W3	Water Right	63-373A	UNITED STATES OF AMERICA ACTING THROUGH	BOISE RIVER	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	