

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-7228

Exam Date: 6/24/2014

1. Current Owner: OWEN DANIELS
2585 W 2000 N
MALAD ID 83252
(208)766-4504
2. Accompanied by: LuAnn Thomas
Phone No: 208 766 3765
Address: 2705 W 2000 N, Malad, 83252
Relationship to Permit Holder: None, but LuAnn is current property owner.

3. SOURCE TRIBUTARY
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None. There are 1.5 shares of St. John's Irrigation water associated with the POU.
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 NW1/4NE1/4 Sec. 18, Twp 14S, Rge 36E, B.M.
ONEIDA County

Method of Determination: GPS and ArcMap

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<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>	
14S	36E	18		.8			14.0												14.8

Total Acres: 14.8

Method of Determination: Meeting with owner, aerial photography, and ArcMap.

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/Diversion Information**

30 HP pump submerged at 280 ft, well is 300 ft deep.

D. FLOW MEASUREMENTS

Measured with a Fuji Portaflow C.

182.20 gpm system max. Totalized readings are attached for more information.

E. FLOW CALCULATIONS

Measured Method:

$$182.20 \text{ gpm} / 448.84 \text{ gpm/cfs} = 0.41 \text{ cfs}$$

$$14.8 \text{ acres} * 0.02 \text{ cfs/acre} = \mathbf{0.30 \text{ cfs}}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 14.8 \text{ acres} \times 3.5 \text{ AF/acre} = 51.8 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.30 \text{ cfs} \times 214 \times 1.9835 = 127.34 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 51.8 \text{ AF}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

1.5 shares of St Johns Irrigation water. Two horses graze land. New owner accompanied for exam. Seven risers off of mainline.

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	04/01 to 10/31	0.300 CFS	51.80 AF
<u>Totals:</u>		0.300 CFS	51.80 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

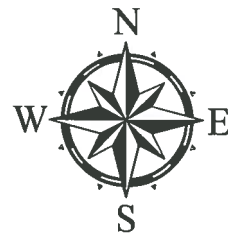
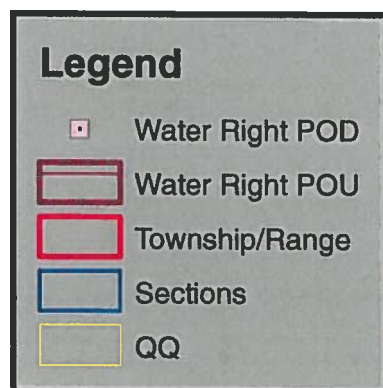
Field Examiner's Name Cooper Fritz Date 2/23/2015

Reviewer _____ Date _____

15-7228 POD and POU



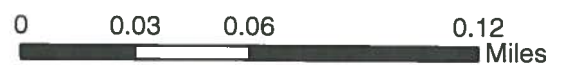
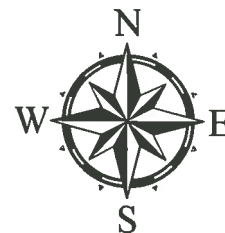
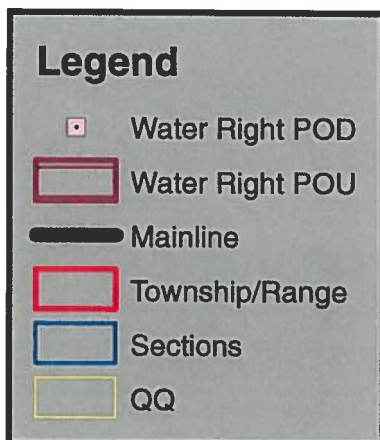
2012 Imagery



15-7228 POD, POU, and Mainline Locations



2012 Imagery



	4 'VELOCITY ft/s	'FLOW RATE gal/min	'+TOTALIZER gal
6/24/2014 10:33	2.036	180.6876	0
6/24/2014 10:34	2.03	180.1045	180.061
6/24/2014 10:35	2.04	181.0387	360.188
6/24/2014 10:36	2.036	180.6725	541.043
6/24/2014 10:37	2.022	179.423	720.395
6/24/2014 10:38	2.023	179.4825	900.936
6/24/2014 10:39	2.016	178.8879	1080.853
6/24/2014 10:40	2.053	182.1979	1261.306
6/24/2014 10:41	2.015	178.8	1440.725
6/24/2014 10:42	2.049	181.8262	1621.571
6/24/2014 10:43	2.042	181.2364	1800.221

