

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-07285
Exam Date: 7/6/2017

1. Current Owner:
SETH D SEAMONS 2223 S 5400 W MALAD CITY ID 83252 (208) 766-4890
2. Accompanied by: Seth Seamons

3. **SOURCE:**
GROUND WATER

TRIBUTARY:

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 NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 4, Twp 15S, Rge 35E, B.M. ONEIDA County

Method of Determination: GPS and ArcMap

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	
15S	35E	4									9			23	32	31	12	31	138

Total Acres: 138.0

Method of Determination: 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.

X

X

Aerial Photo Attached (required for irrigation of 10+ acres).

X

Photo of Diversion and System Attached

4. WELL INFORMATION

125 hp turbine pump

D. FLOW MEASUREMENTS

Fuji Portaflow C, found a maximum 10 second average flow rate of 1010.5 gpm

E. FLOW**CALCULATIONS**

_____ Additional Computation Sheets Attached

$$1010.48 \text{ gpm} / 448.83 \text{ gpm/cfs} = 2.25 \text{ cfs}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: 483.0 AF

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 138.0 \text{ acres} \times 3.5 \text{ AF/acre} = 483.0 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 2.25 \text{ cfs} \times 1.9835 \times 214 \text{ days} = 955.1 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 483.0 \text{ AF}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTSHave 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	04/01 to 10/31	2.25 CFS	483.0 AF
	<u>Totals:</u>	2.250 CFS	483.00 AF

2. Recommended Amendments

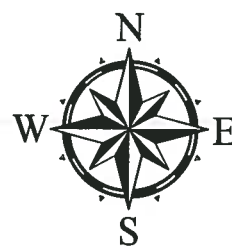
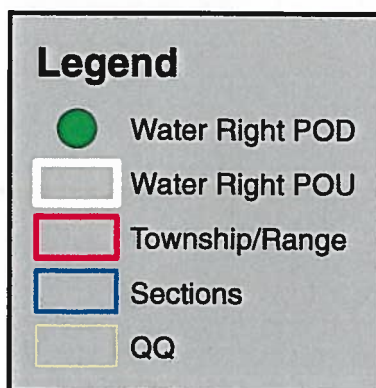
_____ Change P.D. as reflected above _____ Add P.D. as reflected above _____ None

_____ Change P.U. as reflected above X Add P.U. as reflected above _____ None**I. AUTHENTICATION**Field Examiner's Name Cooper Fritz Date 10/19/2017Reviewer James Cefalo Date 10/20/17

15-7285 Place of Use and Point of Diversion at Licensing



7/30/2017 Sentinal-2A Satlite Imagery





Time	'VELOCITY ft/s	'FLOW RATE gal/min
7/6/2017 15:51	4.241	988.3371
7/6/2017 15:51	4.213	981.803
7/6/2017 15:51	4.196	977.7407
7/6/2017 15:51	4.225	984.516
7/6/2017 15:51	4.244	989.0108
7/6/2017 15:51	4.238	987.4857
7/6/2017 15:52	4.26	992.5965
7/6/2017 15:52	4.253	991.0167
7/6/2017 15:52	4.244	988.8719
7/6/2017 15:52	4.22	983.4053
7/6/2017 15:52	4.228	985.2684
7/6/2017 15:52	4.267	994.3685
7/6/2017 15:53	4.254	991.179
7/6/2017 15:53	4.25	990.446
7/6/2017 15:53	4.265	993.8264
7/6/2017 15:53	4.21	981.0373
7/6/2017 15:53	4.221	983.4965
7/6/2017 15:53	4.229	985.4784
7/6/2017 15:54	4.224	984.2422
7/6/2017 15:54	4.247	989.7379
7/6/2017 15:54	4.222	983.7914
7/6/2017 15:54	4.255	991.6116
7/6/2017 15:54	4.251	990.5833
7/6/2017 15:54	4.194	977.3816
7/6/2017 15:55	4.207	980.334
7/6/2017 15:55	4.289	999.4694
7/6/2017 15:55	4.287	998.9395
7/6/2017 15:55	4.3	1002.0622
7/6/2017 15:55	4.286	998.7121
7/6/2017 15:55	4.276	996.4677
7/6/2017 15:56	4.298	1001.6437
7/6/2017 15:56	4.3	1002.0961
7/6/2017 15:56	4.336	1010.4835
7/6/2017 15:56	4.303	1002.7063
7/6/2017 15:56	4.28	997.4659
7/6/2017 15:56	4.29	999.7807
7/6/2017 15:57	4.282	997.733
7/6/2017 15:57	4.296	1001.0384
7/6/2017 15:57	4.3	1001.9776
7/6/2017 15:57	4.263	993.4535
7/6/2017 15:57	4.264	993.738
7/6/2017 15:57	4.28	997.2595
7/6/2017 15:58	4.277	996.749
7/6/2017 15:58	4.25	990.2592
7/6/2017 15:58	4.251	990.553

7/6/2017 15:58	4.229	985.4301
7/6/2017 15:58	4.243	988.7412
7/6/2017 15:58	4.24	988.0649
7/6/2017 15:59	4.281	997.4851
7/6/2017 15:59	4.293	1000.2646
7/6/2017 15:59	4.269	994.8311
7/6/2017 15:59	4.268	994.6096
7/6/2017 15:59	4.293	1000.3921
7/6/2017 15:59	4.314	1005.1814
7/6/2017 16:00	4.273	995.7889
7/6/2017 16:00	4.291	999.8958
7/6/2017 16:00	4.313	1004.9468
7/6/2017 16:00	4.276	996.3587
7/6/2017 16:00	4.271	995.1732
7/6/2017 16:00	4.286	998.7643
7/6/2017 16:01	4.259	992.4878