

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-7314

Exam Date: 7/18/2014

1. Current Owner: DAVID R MILLS
2345 W SAMARIA RD
MALAD CITY ID 83252
(208)766-2542
2. Accompanied by: David Mills (owner)
Phone No:
Address:
Relationship to Permit Holder:

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: 15-7056

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

GROUND WATER	SW1/4SE1/4	Sec. 30,	Twp 15S,	Rge 36E, B.M.
ONEIDA County				
GROUND WATER	NE1/4SE1/4	Sec. 30,	Twp 15S,	Rge 36E, B.M.
ONEIDA County				

Method of Determination: Aerial Photography and GPS

2.

PLACE OF USE: IRRIGATION

Tw	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
15S	36E	29									15.3		23.9	24.2			.1		63.5
15S	36E	30													2.0		.2	11.5	13.7
15S	36E	32					4.0												4.0

Total Acres: 81.2

Method of Determination: Aerial photography

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</u> <u>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</u> <u>Size</u>
South Well (D0057510)	Submersible				
North Well	U.S Motors	25	3203200	Peerless	197317

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

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
Portable Flowmeter	FSC		Fuji	S10A1-00Y	A0L5539T	5/2014

2. Measurements: A ten minute flowmeter reading was performed at both wells.

South Well (new well) – Maximum instantaneous flow rate was 353.1 gpm or .78 cfs

North Well (old well) – Maximum instantaneous flow rate was 186.7 gpm or .42 cfs

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method: Portable Flowmeter

Water right 15-7056 = .39 cfs

Measured Flow (both POD's) = 1.2 cfs

Water right 15-7314 = 1.2 cfs

When combined 15-7056 and 15-7314 are limited to 1.2 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = 81.2 \text{ (Acres Irrigated)} \times 3.5 \text{ (Irrigation Requirement)} = 284.2$$

$$V_{D.R.} = 1.2 \text{ [Diversion Rate (cfs)]} \times 214 \text{ (Days in Irrigation season)} \times 1.9835 = 509.4$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 284.2$$

2. Volume Calculations for Other Uses: none

G. NARRATIVE/REMARKS/COMMENTS

System runs off two points of diversion. A ten minute flow measurement test was performed at each well. Place of use consist of one pivot, wheel lines and hand lines. Water right 15-7314 shares one POD with water right 15-7056 but does not share any of the POU. Water right 15-7314 and 15-7056 when combined will be limited to the rate of 1.2 CFS.

An amendment will be sent to the owner to update the POD and the POU. Permit will add a POD to the NESE of section 30, and change a POD from the SESE to the SWSE of section 30. POU will be changed from the SWSE of section 29 and the NWNE of section 32 to the NWSE and the SWSE of section 30.

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	1.200 CFS	284.2 AF
<u>Totals:</u>		1.200 CFS	284.2 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 Scott Byrne Date 11/20/15

Reviewer _____ Date _____



↗ South Well D0057510





25hp North well - Shares with 15-7056



15-7314 a Southwell D0057510

'FLOW RATE

7/2/2014 13:40	348.039		
7/2/2014 13:40	343.704	7/2/2014 13:47	342.179
7/2/2014 13:40	345.923	7/2/2014 13:48	348.825
7/2/2014 13:40	347.028	7/2/2014 13:48	350.106
7/2/2014 13:41	346.772	7/2/2014 13:48	344.357
7/2/2014 13:41	347.844	7/2/2014 13:48	342.222
7/2/2014 13:41	347.517	7/2/2014 13:48	344.463
7/2/2014 13:41	347.707	7/2/2014 13:48	346.986
7/2/2014 13:41	346.017	7/2/2014 13:49	347.155
7/2/2014 13:41	350.197	7/2/2014 13:49	348.734
7/2/2014 13:42	350.262	7/2/2014 13:49	346.596
7/2/2014 13:42	348.781	7/2/2014 13:49	346.342
7/2/2014 13:42	352.931	7/2/2014 13:49	349.647
7/2/2014 13:42	350.192	7/2/2014 13:49	347.133
7/2/2014 13:42	353.146		gal/min
7/2/2014 13:42	349.511		
7/2/2014 13:43	350.786		
7/2/2014 13:43	349.676		
7/2/2014 13:43	348.832		
7/2/2014 13:43	349.01		
7/2/2014 13:43	345.958		
7/2/2014 13:43	348.853		
7/2/2014 13:44	349.432		
7/2/2014 13:44	348.96		
7/2/2014 13:44	343.708		
7/2/2014 13:44	347.934		
7/2/2014 13:44	348.095		
7/2/2014 13:44	347.931		
7/2/2014 13:45	347.463		
7/2/2014 13:45	346.614		
7/2/2014 13:45	345.083		
7/2/2014 13:45	348.189		
7/2/2014 13:45	350.511		
7/2/2014 13:45	347.583		
7/2/2014 13:46	347.388		
7/2/2014 13:46	348.998		
7/2/2014 13:46	350.402		
7/2/2014 13:46	346.444		
7/2/2014 13:46	345.613		
7/2/2014 13:46	347.05		
7/2/2014 13:47	347.299		
7/2/2014 13:47	346.503		
7/2/2014 13:47	347.55		
7/2/2014 13:47	345.849		
7/2/2014 13:47	345.12		

North well (old well)

35-7314

'FLOW RATE

gal/min

7/18/2014 10:32	180.526	7/18/2014 10:39	184.56
7/18/2014 10:32	184.147	7/18/2014 10:39	183.076
7/18/2014 10:32	182.897	7/18/2014 10:40	181.097
7/18/2014 10:32	182.26	7/18/2014 10:40	183.034
7/18/2014 10:32	183.388	7/18/2014 10:40	184.477
7/18/2014 10:33	182.724	7/18/2014 10:40	184.688
7/18/2014 10:33	183.308	7/18/2014 10:40	183.251
7/18/2014 10:33	184.866	7/18/2014 10:40	182.944
7/18/2014 10:33	185.66	7/18/2014 10:41	179.841
7/18/2014 10:33	186.716	7/18/2014 10:41	184.422
7/18/2014 10:33	185.722	7/18/2014 10:41	182.625
7/18/2014 10:34	183.347	7/18/2014 10:41	175.758
7/18/2014 10:34	183.262	7/18/2014 10:41	173.044
7/18/2014 10:34	185.184	7/18/2014 10:41	173.667
7/18/2014 10:34	182.958	7/18/2014 10:42	172.8
7/18/2014 10:34	183.029		
7/18/2014 10:34	183.497		
7/18/2014 10:35	183.345		
7/18/2014 10:35	183.455		
7/18/2014 10:35	183.025		
7/18/2014 10:35	184.072		
7/18/2014 10:35	183.822		
7/18/2014 10:35	181.904		
7/18/2014 10:36	182.278		
7/18/2014 10:36	186.57		
7/18/2014 10:36	184.073		
7/18/2014 10:36	184.52		
7/18/2014 10:36	181.971		
7/18/2014 10:36	184.002		
7/18/2014 10:37	184.831		
7/18/2014 10:37	183.525		
7/18/2014 10:37	184.026		
7/18/2014 10:37	184.238		
7/18/2014 10:37	183.648		
7/18/2014 10:37	183.441		
7/18/2014 10:38	180.711		
7/18/2014 10:38	181.787		
7/18/2014 10:38	184.279		
7/18/2014 10:38	181.908		
7/18/2014 10:38	186.454		
7/18/2014 10:38	182.071		
7/18/2014 10:39	184.951		
7/18/2014 10:39	181.812		
7/18/2014 10:39	181.595		
7/18/2014 10:39	182.001		