

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-7037
Exam Date: 9/25/2013

1. Current Owner: CATHY LOUDER and Jeffrey Louder
PO BOX 353
COALVILLE UT 84017

And

NORTHWEST FARM CREDIT SERVICES FLCA
PO BOX 386
PRESTON ID 83263

2. Accompanied by: Jeffrey Louder
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: 25 Shares in Samaria Irrigation
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 SE1/4NE1/4 Sec. 27, Twp 16S, Rge 36E, B.M.
ONEIDA County

Method of Determination: Site visit and GPS

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	
16S 36E 27	34.0	39.0	40.0	38.0													151.0

Total Acres: 151

Method of Determination: Site visit and Aerial photos.

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>
A0010824	DeRan	100		Borg Warner	Rockford

*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>
Portable Flowmeter	FSC		Fuji	S10A1-00Y	A0L5539T	2014

2. Measurements:

A ten minute flowmeter reading was performed. Maximum instantaneous rate was 953.9 gpm or 2.13 cfs.

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method:

Calculated using portable flowmeter. Highest instantaneous rate 953.9 gpm = 2.13 cfs.
original permit was for 3.20 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = 151 \text{ (Acres Irrigated)} \times 3.5 \text{ (Irrigation Requirement)} = 528.5$$

$$V_{D.R.} = 2.13 \text{ [Diversion Rate (cfs)]} \times 214 \text{ (Days in Irrigation season)} \times 1.9835 = 904.1$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 528.5$$

2. Volume Calculations for Other Uses: n/a

G. NARRATIVE/REMARKS/COMMENTS

System runs off a 100 HP diesel motor. At the time of measurement, the pump was running 3 wheel lines and 1 hand line. POU has 25 shares in Samaria Lake Irrigating Co.

Initial field exam was done in Aug/2013 but reliable measurement was ^{not} taken during the exam. Follow up exam was done in Sept/2014 and a flow measurement was successful.

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	2.130 CFS	529.00 AF
<u>Totals:</u>		2.130 CFS	529.00 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 Steve Boyer Date 11/6/14

Reviewer James Defalo Date 11/6/14

15-7037	'FLOW RATE		
9/11/2014 14:31	918.583	9/11/2014 14:39	919.375
9/11/2014 14:31	909.124	9/11/2014 14:39	936.05
9/11/2014 14:31	919.812	9/11/2014 14:39	892.892
9/11/2014 14:31	807.284	9/11/2014 14:39	892.405
9/11/2014 14:32	759.197	9/11/2014 14:39	925.258
9/11/2014 14:32	780.717	9/11/2014 14:39	931.899
9/11/2014 14:32	784.965	9/11/2014 14:40	909.74
9/11/2014 14:32	794.409	9/11/2014 14:40	925.246
9/11/2014 14:32	727.607		gal/min
9/11/2014 14:32	750.185		
9/11/2014 14:33	896.157		
9/11/2014 14:33	919.688		
9/11/2014 14:33	912.73		
9/11/2014 14:33	940.311		
9/11/2014 14:33	900.303		
9/11/2014 14:33	931.059		
9/11/2014 14:34	912.912		
9/11/2014 14:34	948.283		
9/11/2014 14:34	953.889		
9/11/2014 14:34	912.08		
9/11/2014 14:34	908.798		
9/11/2014 14:34	914.375		
9/11/2014 14:35	894.552		
9/11/2014 14:35	895.882		
9/11/2014 14:35	922.433		
9/11/2014 14:35	922.664		
9/11/2014 14:35	937.738		
9/11/2014 14:35	920.975		
9/11/2014 14:36	929.14		
9/11/2014 14:36	916.503		
9/11/2014 14:36	893.415		
9/11/2014 14:36	916.104		
9/11/2014 14:36	930.091		
9/11/2014 14:36	930.861		
9/11/2014 14:37	827.876		
9/11/2014 14:37	892.667		
9/11/2014 14:37	907.376		
9/11/2014 14:37	823.054		
9/11/2014 14:37	745.792		
9/11/2014 14:37	856.405		
9/11/2014 14:38	931.287		
9/11/2014 14:38	776.452		
9/11/2014 14:38	727.965		
9/11/2014 14:38	754.516		
9/11/2014 14:38	766.158		
9/11/2014 14:38	892.583		

15-7037 pad



Idaho Department of Water Resources

Water Right
License
15-7037



	POU
	Water Right POD
	water line
	Sections
	QQ

