

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-7127

Exam Date: 8/9/2012

1. Current Owner: DALE DANIELS
176 W 500 N
MALAD CITY ID 83252
(208)766-4480
2. Accompanied by: Dale Daniels (Owner)
Jeffery Daniels (Son) (Primary Contact)
T.J Daniels (Grandson)
Phone No: 208-201-2707 (Jeffery Daniels)
Address:
Relationship to Permit Holder:

3. **SOURCE** **TRIBUTARY**
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Malad Valley Irrigation (12 Shares)
2. Other water rights with the same point of diversion: none

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER NW1/4SW1/4 Sec. 32, Twp 14S, Rge 36E, B.M.
ONEIDA County

Method of Determination: GPS, Aerial Photography

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	
14S	36E	32									33.5	23.5							57.0
15S	36E	5					22.5	13.0											35.5

Total Acres: 92.5

Method of Determination: ArcGIS, 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 Serial No. or Discharge</u> <u>Pump Make</u> <u>Size</u>
A0010806	High Thrust	50	S1252620016R-4	D9601
	(Booster) Baldor-Reliancer	25	2104141591	

*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>
Not used.						

2. Measurements: Pump sucks air. Unable to get measurements using a portable flowmeter. Attempted multiple locations on pipe and always received signal error.

E. FLOW CALCULATIONS

Attached

☐ NO Additional Computation Sheets

Measured Method: Sprinkler count method.

77 Sprinkler heads with 11/64 inch nozzles at 60 PSI. Each nozzle produces 6.80 gpm.

Total of 523.6 GPM which is 1.17 CFS.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = 92.5 \text{ (Acres Irrigated)} \times 3.5 \text{ (Irrigation Requirement)} = 323.8$$

$$V_{D.R.} = 1.17 \text{ [Diversion Rate (cfs)]} \times 214 \text{ (Days in Irrigation season)} \times 1.9835 = 496.6$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 323.8$$

2. Volume Calculations for Other Uses: none

G. NARRATIVE/REMARKS/COMMENTS

System runs off of a 50 HP pump and a 25 HP booster. At the time of measurement, the pump was running two ¼ mile wheel lines and a short 9 rainbird hand line. Pump was sucking too much air and unable to get measurement with a portable flowmeter. Based rate off sprinkler count and pressure reading. Permit was for 152 acres and only 92.5 acres is irrigated. Period of use was updated to standard dates.

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	1.170 CFS	323.80 AF
<u>Totals:</u>		1.170 CFS	323.80 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

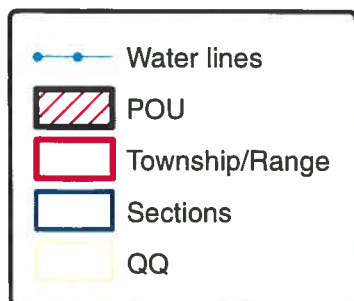
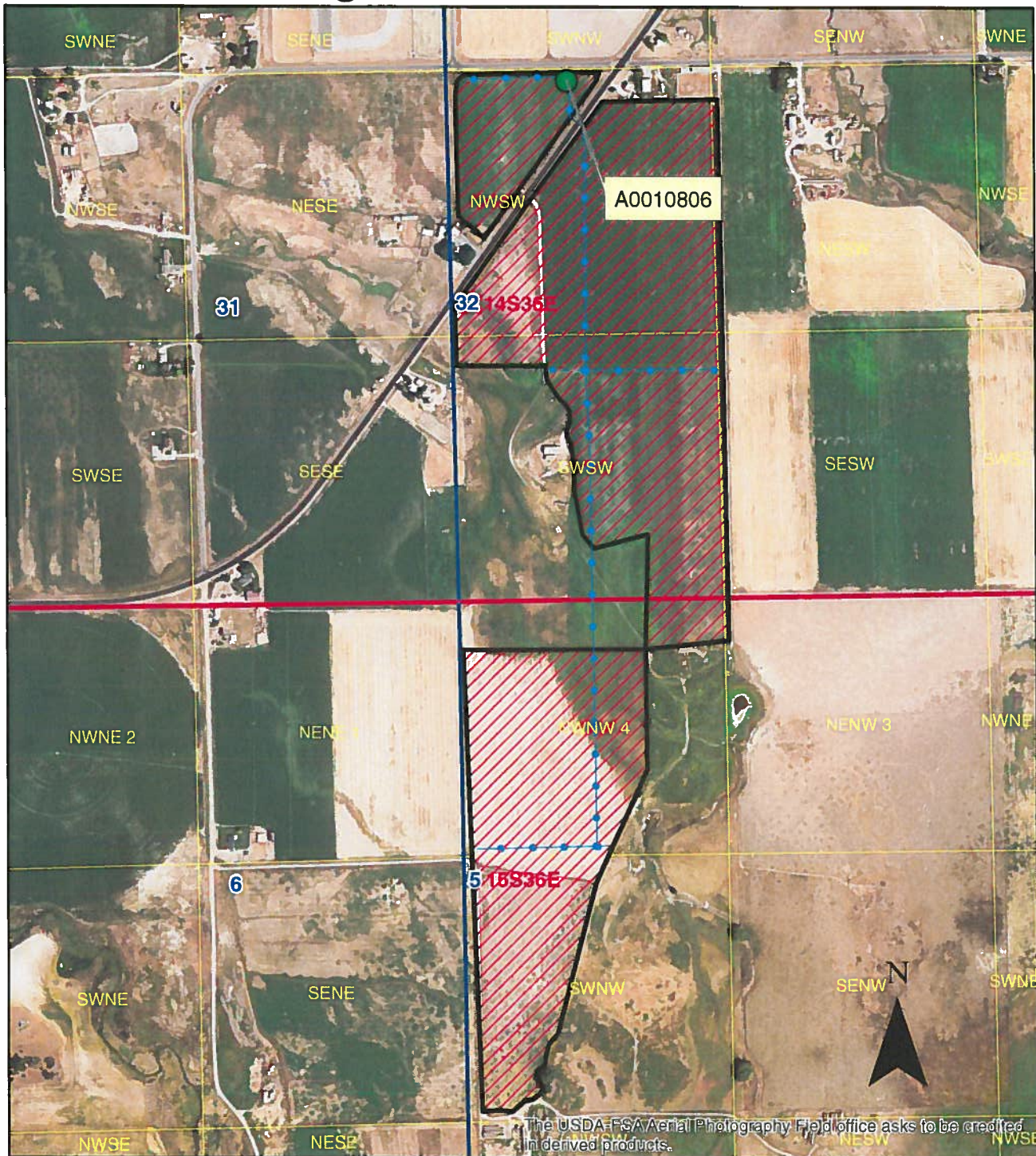
I. AUTHENTICATION

Field Examiner's Name Justin B. [Signature] Date 1/22/15

Reviewer _____ Date _____



Water Right Field Exam 15-7127



0 375 750 1,500 Feet

Onida County
IDWR Basin 15

Idaho Department of Water Resources
Prepared by Scott Bergendorf
2013 Aerial photography

