

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-7227

Exam Date: 6/10/2014

1. Current Owner: DAVID D TALBOT
1444 N 3400 W
MALAD ID 83252
(208)766-2832
2. Accompanied by: David Talbot
Phone No: 208-251-2792
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: None

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

GROUND WATER NE1/4NE1/4
ONEIDA County

Sec. 7, Twp 14S, Rge 36E, B.M.

Method of Determination: GPS and Aerial photography.

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 5											9.1						9.1
14S 36E 6																.9	.9
14S 36E 7	13.5																13.5
14S 36E 8					39.5												38.5

Total Acres: 63

Method of Determination: Aerial Photography and Arc GIS.

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>
D0026727	JOHN DEERE (DIESEL)	200		DERAN	2K4-0532

*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	May/2014

2. Measurements: A ten minute flowmeter reading was performed. Maximum instantaneous flow rate was 800 gpm or 1.78 cfs. End gun on and 48 PSI.

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

Measured Flow = 1.78 cfs

Maximum authorized flow = (0.02 cfs X 63 irrigated acres) = 1.26 cfs

F. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation:**

$$V_{I.R.} = 63 \text{ (Acres Irrigated)} \times 3.5 \text{ (Irrigation Requirement)} = 220.5 \text{ af}$$

$$V_{D.R.} = 1.26 \text{ [Diversion Rate (cfs)]} \times 214 \text{ (Days in Irrigation season)} \times 1.9835 = 534.8 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 220.5 \text{ af}$$

2. Volume Calculations for Other Uses: none**G. NARRATIVE/REMARKS/COMMENTS**

System runs off of a 200 hp diesel motor. At the time of measurement, the well irrigated an 850 foot pivot and one corner of handlines.

15-7227 water right permit was conditioned as a secondary right to surface water shares with Malad Valley Irrigation. However, the permit was developed into two systems. Only ground water is developed on the 63 acres identified in this field exam. The other acres on the permit are only used for surface water and will not part of the POU for water right 15-7227.

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	1.260 CFS	220.50 AF
<u>Totals:</u>		1.260 CFS	220.50 AF

2. Recommended Amendments

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

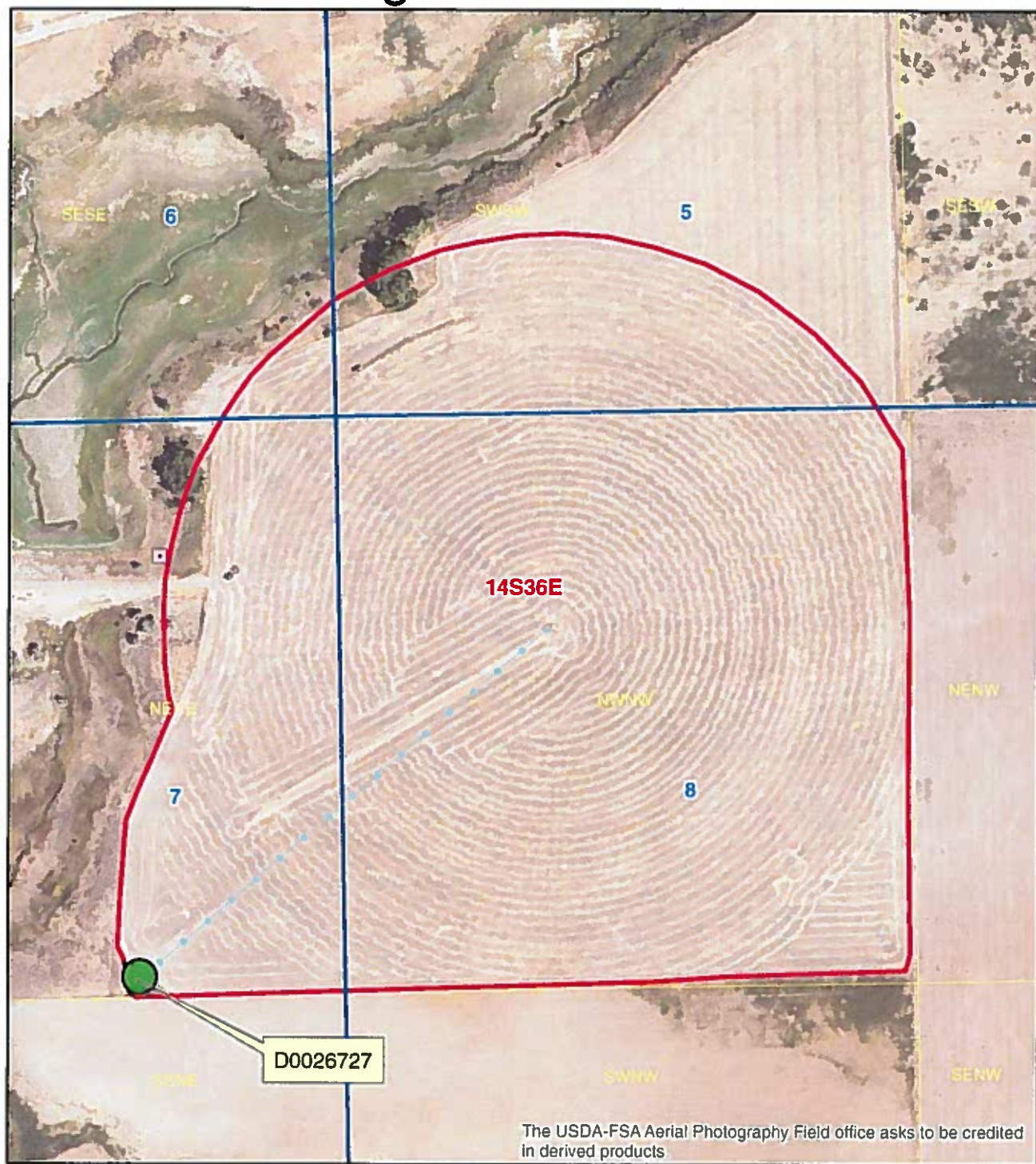
☒ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Scott Bergendorf Date Jan 2016

Reviewer _____ Date _____

Water Right License 15-7227



0 225 450 900 Feet

Water Line
POU

Onida County
IDWR Basin 15

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



