

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-7110

Exam Date: 8/1/2014

1. Current Owner: RICHARD CORNIA
252 W 1500 S
MALAD ID 83252
(208)339-1007

And

LYNETTE CORNIA
252 W 1500 S
MALAD ID 83252
(208)339-1007

2. Accompanied by: Lex Firth

Phone No: 766-3431

Address:

Relationship to Permit Holder: Leases the property.

3. SOURCE**TRIBUTARY**

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 100 Shares Deep Creek 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

SE1/4SE1/4

Sec. 33, 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	33													34.5	38.0	38.0	34.5	145.0

Total Acres: 145

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>
A0010736		50			

*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>
N/A						

2. Measurements: Pump was inoperable due to sand that damaged the motor. Used theoretical calculations.

E. FLOW CALCULATIONS

 Additional Computation Sheets Attached

Measured Method: Theoretical measurement using depth to water, horsepower of motor, and psi. Lex Firth provided the motor size of 50hp, the dynamic drawdown of 15ft (he stated that before irrigation season the well is artesian flowing), and the standard pressure of the system of 50 psi.

$$\frac{8.8 \times 50\text{hp} \times .70}{15\text{ft} + (2.31 \times 50\text{psi})} = 2.36 \text{ cfs}$$

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

$$V_{I.R.} = 145 \text{ (Acres Irrigated)} \times 3.5 \text{ (Irrigation Requirement)} = 507.5 \text{ AF}$$

$$V_{D.R.} = 2.36 [\text{Diversion Rate (cfs)}] \times 214 (\text{Days in Irrigation season}) \times 1.9835 = 1001.7 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 507.5 \text{ AF}$$

2. Volume Calculations for Other Uses: N/A**G. NARRATIVE/REMARKS/COMMENTS**

System runs off a 50hp pump. At the time of measurement system could run 4 sets of wheelines. POU has 100 shares of Deep Creek Irrigation Co. Owner often runs the well and the surface water shares together.

At the time of the exam the well was inoperable due to damage caused by sand that had burned out the pump. Owner was working on finding the funds to drill a new well. Owner will file for a transfer to move the POD when ready.

The property uses 100 shares of surface water from Deep Creek Irrigation Co. Surface water is used in combination with the ground water to irrigate the property. As a result, condition 104 will be added to the water right.

Water Right 15-39 appears to share the POU with this right. However, the backfile shows that this right was moved to the Deep Creek Irrigation Co on 1/8/1978 by a transfer.

POU is also located in the service area of the South Side Water Co. however the owner does not have any shares on this property.

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 11/01	2.360 CFS	508.00 AF
<u>Totals:</u>		2.360 CFS	508.00 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

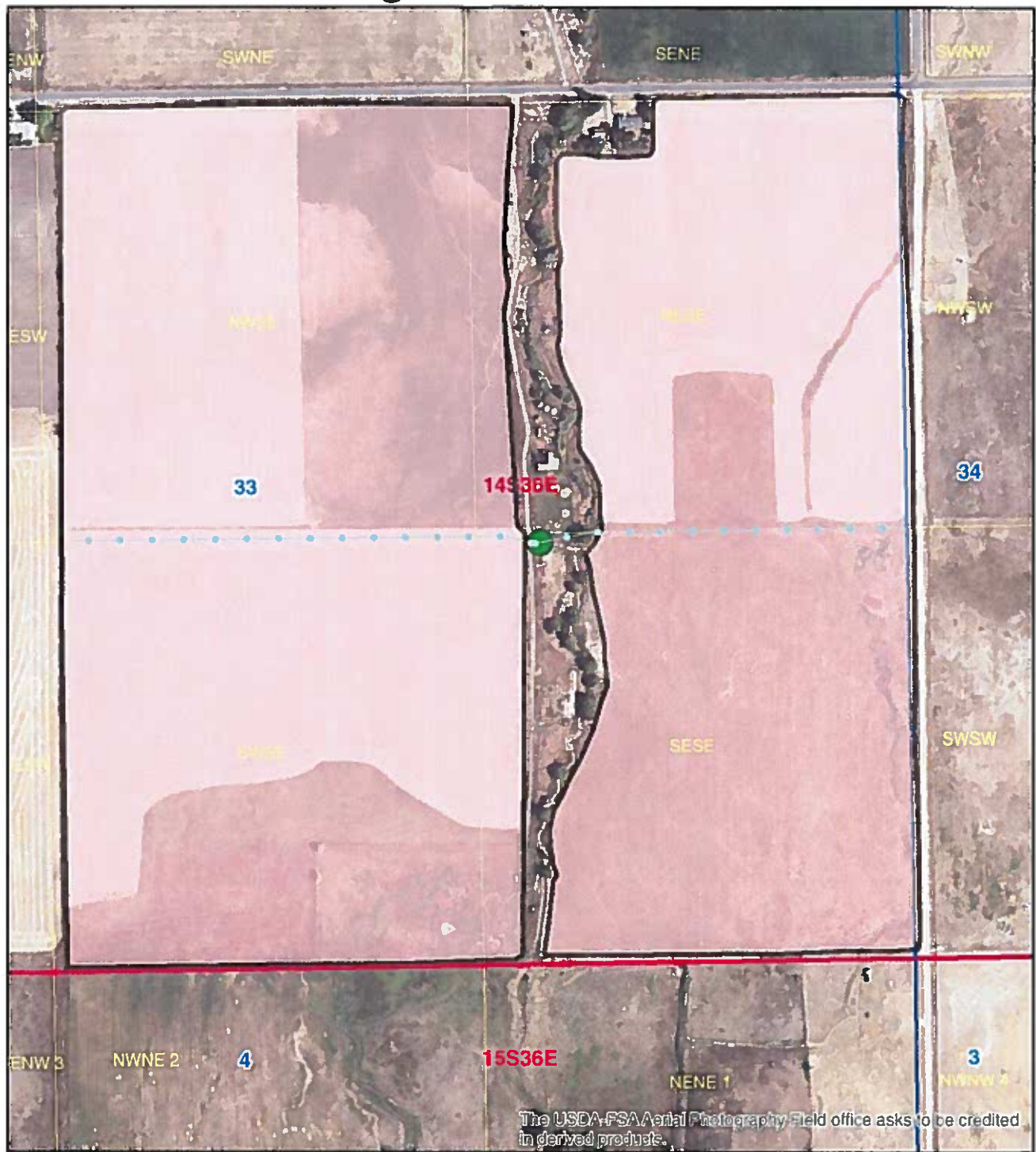
I. AUTHENTICATION

Field Examiner's Name Scott Bergendoff Date 7-6-15

Reviewer _____ Date _____



Water Right License 15-7110



- Water Line
- A0010736
- POU
- Township/Range
- Sections
- QQ

0 280 560 1,120 Feet

Onida County
IDWR Basin 15

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

