

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-7174

Exam Date: 07/09/2015

1. Current Owner: LOYD W BRIGGS
410 N 2100 W
MALAD CITY ID 83252
(208)766-2598
2. Accompanied by: Loyd Briggs
E-Mail Address: loydbriggs@gmail.com

3. SOURCE**TRIBUTARY**

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Water right's entire POU is within the Malad Valley Irrigating Company POU. Water right owner mentioned only St. John Irrigation shares actually used in the POU.
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

SW1/4NE1/4

Sec. 19, Twp 14S, Rge 36E, B.M.

ONEIDA County

Method of Determination: GPS and ArcMap

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	19			5.0	22.0									22.0	37.0	40.0	34.0	160.0

Total Acres: 160

PLACE OF USE: STOCKWATER

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	19													X			X	

Method of Determination: *meeting with appropriator, aerial photography, Arc Map*

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. **Pump Information:** Fairbanks-Morse Serial # K2E2399 powered by a 135 HP tractor motor

D. FLOW MEASUREMENTS

1. **Measurement Equipment:** Fuji Portaflow C
2. Measurements: 11:03:01 = 0000 gallons totalized

11:13:16 = 9572 gallons totalized

Highest observed reading during measuring: 946.1 gpm

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

9572 gallons / 10.25 minutes = 933.85 gallons/minute average.

Highest observed reading during measurement: 946.1 gpm

946.1 gpm / 448.83 gpm/cfs = 2.11 cfs

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

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 160 \text{ acres} \times 3.5 \text{ Acre Feet/Acre} = 560 \text{ Acre Feet}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 2.11 \text{ cfs} \times 214 \times 1.9835 = 895.63 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 560 \text{ AF}$$

2. Volume Calculations for Other Uses:

$$300 \text{ beef cattle} \times 12 \text{ gallons/day/cow} \times 365 \text{ days/year} = 1,314,000 \text{ gallons year} / 325,850 \text{ gallons/AF} = 4.03 \text{ AF/year}$$

G. NARRATIVE/REMARKS/COMMENTS

No domestic uses developed under this permit.

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	2.110 CFS	560.00 AF
STOCKWATER	01/01 to 12/31	0.040 CFS	4.00 AF
<u>Totals:</u>		2.110 CFS	564.00 AF

2. Recommended Amendments

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

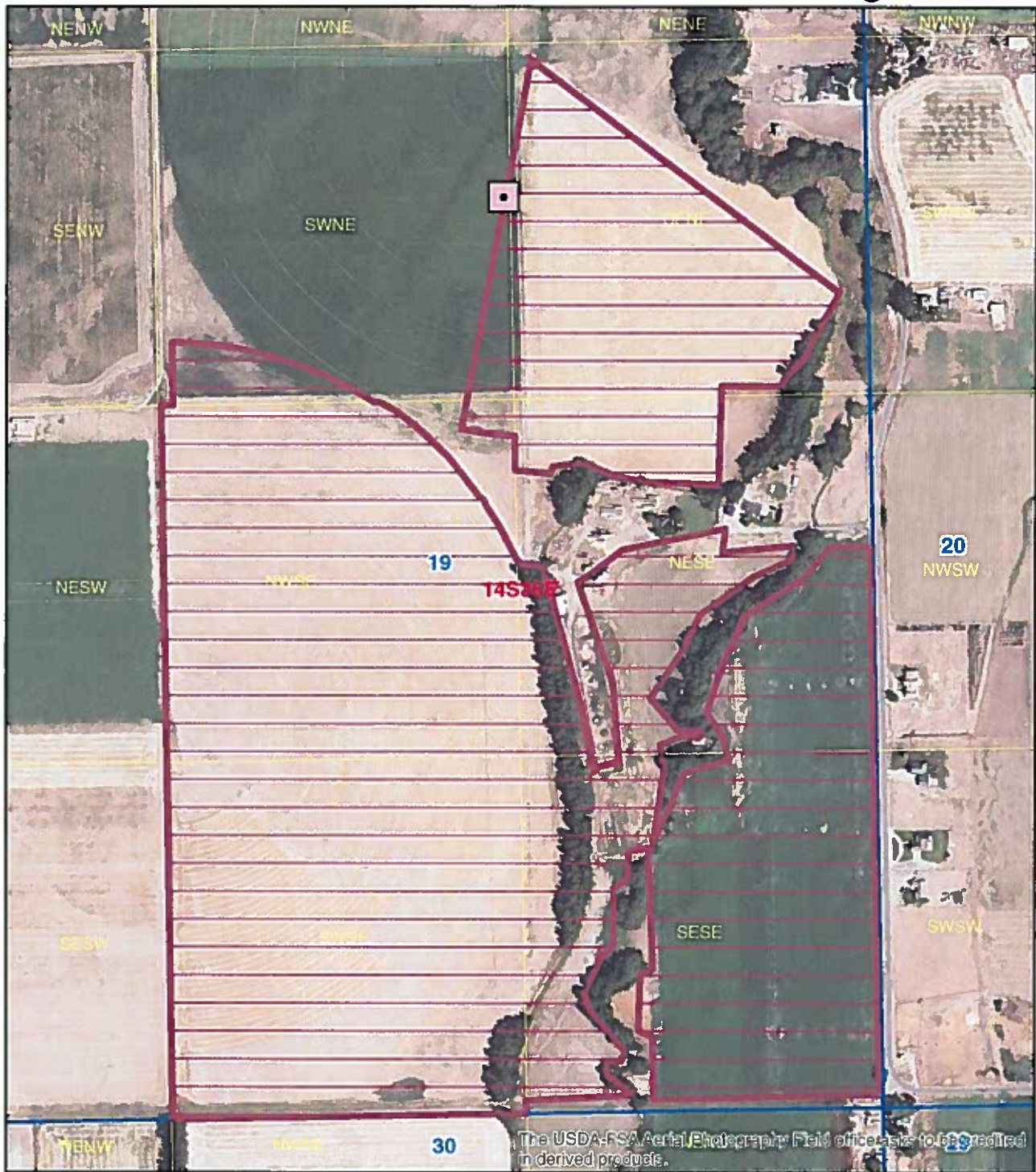
☒ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

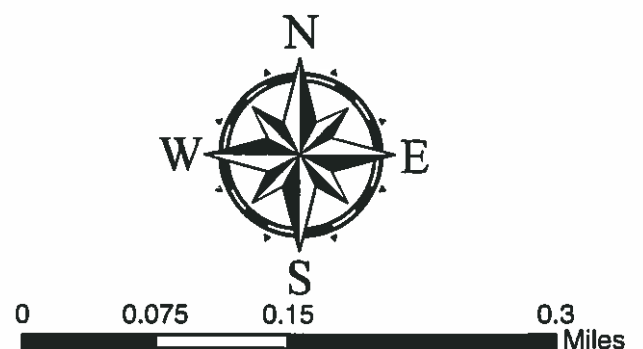
Field Examiner's Name Cooper Fritz Date 12/15/15

Reviewer James Cefalu Date Jan 25, 2016

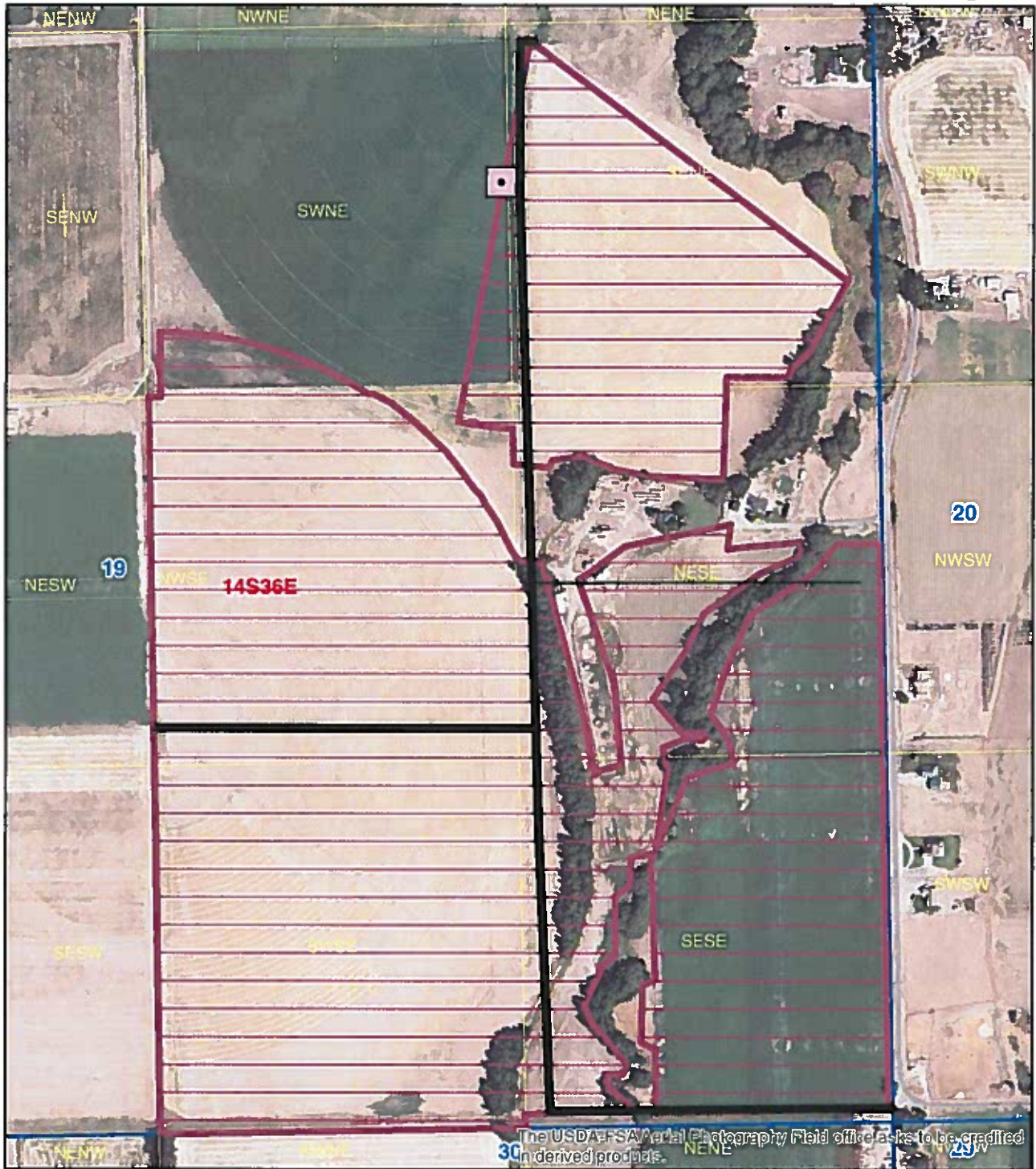
15-7174 POD and POU at Licensing



2013 Imagery



15-7174 POD, POU, and Mainline at Licensing



2013 Imagery

Legend

-  Water Right POD
 Mainline
 POU
 Township/Range
 Sections
 QQ

