

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-7381

Exam Date: 6/9/2022

1. Current Owner:

NORTHWEST FARM CREDIT SERVICES FLCA 102 N STATE ST STE 2 PRESTON ID 83263-1178 AND
LACIE JENSEN 99 N 4400 W MALAD CITY ID 83252-2100 AND
ANTON JENSEN 99 N 4400 W MALAD CITY ID 83252-2100

2. Accompanied by: Anton Jensen

3. **SOURCE:**

GROUND WATER

Method of Determination: _____ Visual Confirmation of three extraction wells _____

B. OVERLAP REVIEW1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
15-7430	Ground Water	Irrigation	Claim
15-7432	Ground Water	Irrigation	Claim

Comments: This system is shared with 15-7294 (license) and 15-7429, 15-7430, and 15-7432 (claims). This system has consistently irrigated 68.5 acres since at least 2004 (as shown in Appendix A).

2. Other water rights with the same point-of-diversion: Yes Overlap

Water Right No.	Source	Purpose of Use	Basis
15-7294	Groundwater	Irrigation	License
15-7163, 15-7429, 15-7430, and 15-7432	Groundwater	Irrigation	Claim

Comments:

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

GROUND WATER SE¼ SE¼, Sec. 23, Twp 14S, Rge 35E, B.M. ONEIDA County

GROUND WATER SE¼ NE¼, Sec. 23, Twp 14S, Rge 35E, B.M. ONEIDA County

GROUND WATER SE¼ SE¼, Sec. 23, Twp 14S, Rge 35E, B.M. ONEIDA County

Method of Determination: ArcMap aerial photography

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
14S	35E	23													11.4			12.6	24.0

Total Acres: 24.0

Method of Determination: ArcMap aerial Photography

3.

Delivery System Diagram Attached. Indicate all major components and distances between components. Indicate weir size/pipe as applicable.

 X Map Attached Showing Location(s) of point(s) of diversion and place(s) of use. Scale must be 1:24,000 or greater.

 X Aerial Photo Attached (required for irrigation of 10+ acres).

 x Photo of Diversion and System Attached

D. POINT OF DIVERSION INFORMATION AND FLOW MEASUREMENTS

Three points of diversion were developed.

(SW)SESE: 15 HP Submersible Pump – 0.52 cfs (backfile of 15-7294)

(NW)SESE: 30 HP Submersible Pump – 0.73 cfs measured as part of this examination

SWNE: 50 HP turbine pump, unmeasured as part of this exam due to 1) the satisfaction of the rate component of the right via the submersible pump in the NWSESE, 2) the non-pressurized nature of the discharge, and 3) the numerous claims associated with the diversion point.

E. FLOW CALCULATIONS

 Additional Computation Sheets Attached

Measured Method: Fuji Transport PT878 ultrasonic flowmeter.

The right will be limited to 0.48 cfs by permit authorization.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 24 \text{ acres} \times 3.5 \text{ AF/acre} = 84 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.48 \text{ cfs} \times 1.9835 \times 214 \text{ days} = 203.7 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 84 \text{ AF}$$

2. Volume Calculations for Other Uses:

N/A

G. NARRATIVE/REMARKS/COMMENTS

This license is part of a system that irrigates 68.5 acres as discussed above and is irrigated either via flood irrigation from the well in the SENE of Section 23 or via a pressurized sprinkler system, primarily diverted via the "middle well" in the N ½ of the SESE of Section 23. The pressurized system can also be served by the "south well" in the S ½ of the SESE.

Because the 68.5 acre property is covered by 15-7294 (license) and 15-7429, 15-7430, and 15-7432 (claims), those four rights are included in a combined limit condition that authorizes 68.5 acres and appurtenant rate and volume (i.e., 1.37 cfs. 239.8 AF).

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
IRRIGATION	04/01 to 10/31	0.48 CFS	84.0 AF

Totals: 0.48 CFS 84.0 AF

2. Recommended Amendments

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

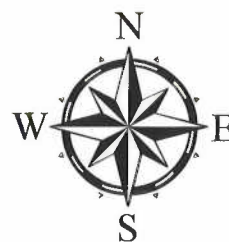
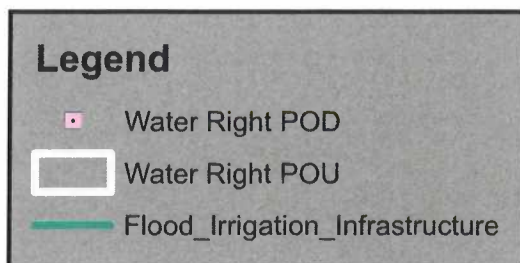
 Change P.U. as reflected above Add P.U. as reflected above X None

I. AUTHENTICATION Cooper Fritz -

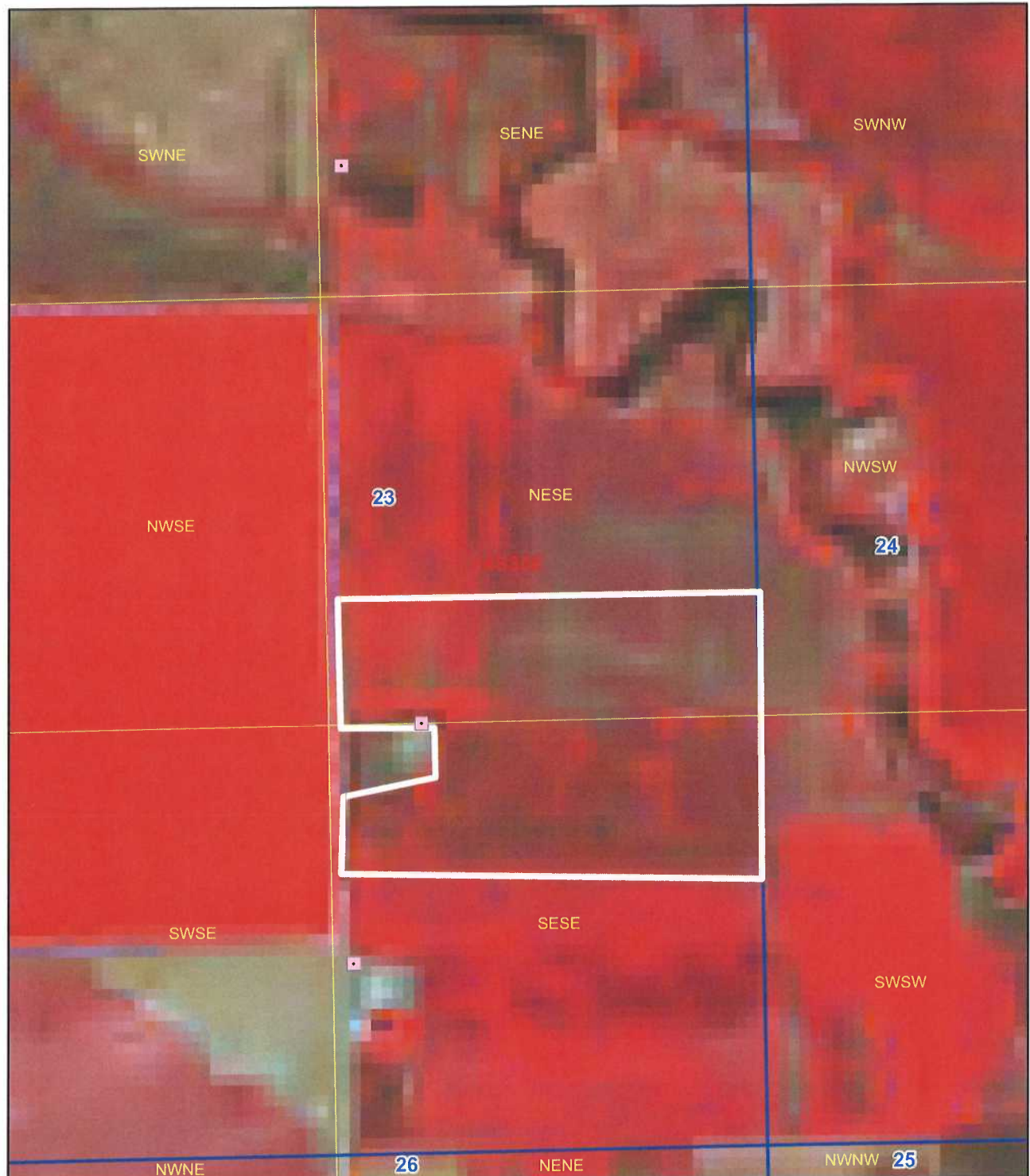
Field Examiner's Name Cooper Fritz Date 9/25/2023

Reviewer James Cefalo Date 9/29/23

15-7381 Point of Diversion and Place of Use at Licensing



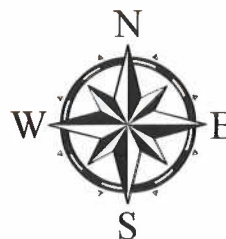
15-7381 Point of Diversion and Place of Use at Licensing



7/10/2019 Imagery

Legend

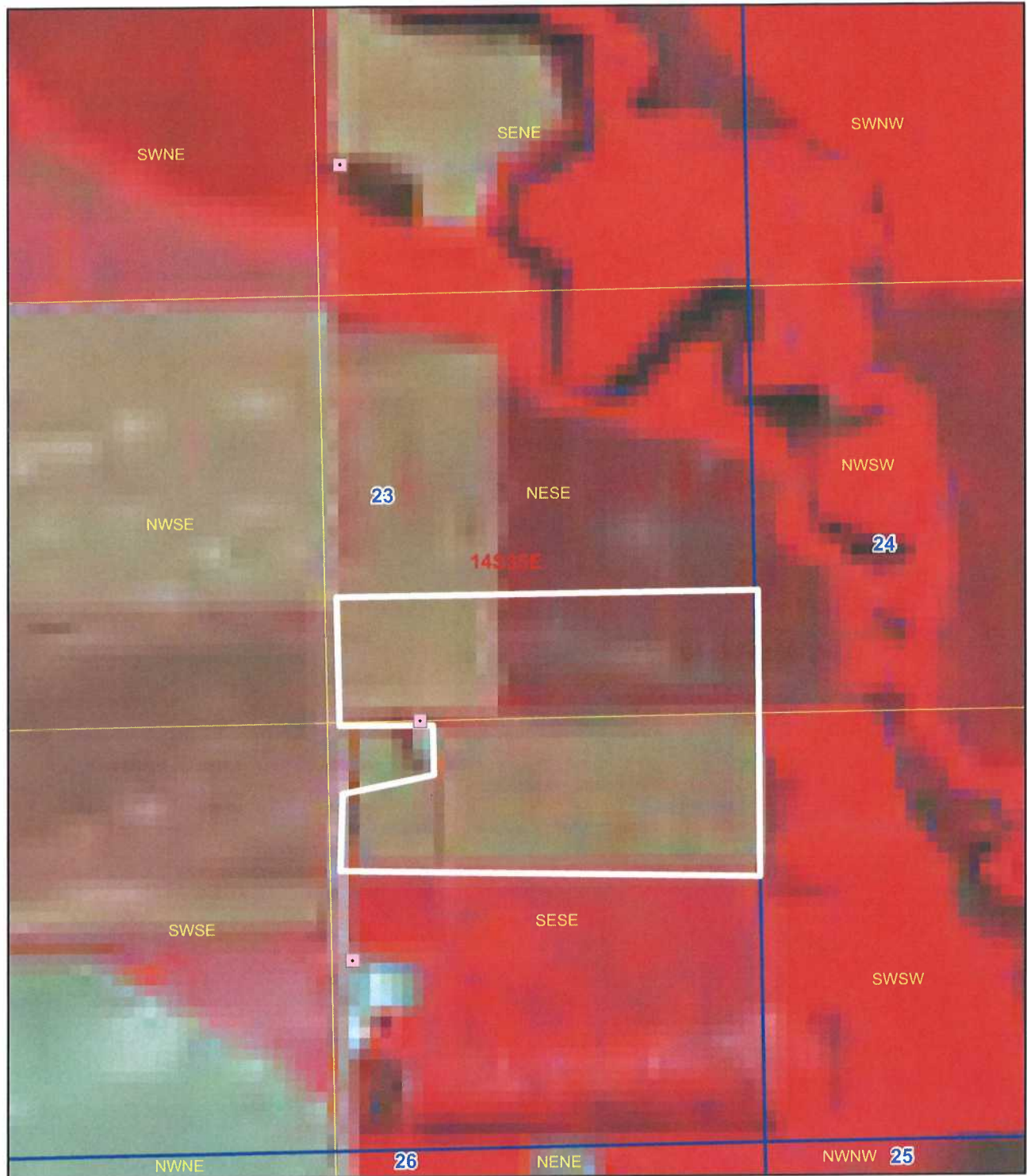
- Water Right POD
- Water Right POU
- Township/Range
- Sections
- QQ



0 0.075 0.15 0.3 Miles

A horizontal scale bar with four segments. The first segment is labeled '0', the second '0.075', the third '0.15', and the fourth '0.3'. The word 'Miles' is at the end of the bar.

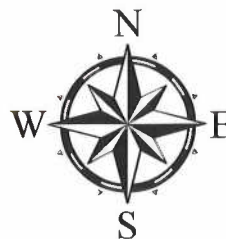
15-7381 Point of Diversion and Place of Use at Licensing



6/10/2019 Imagery

Legend

-  Water Right POD
-  Water Right POU
-  Township/Range
-  Sections
-  QQ



0 0.075 0.15 0.3 Miles



15 HP Submersible Pump in [SW]SESE
Tag No. D0068300



30 HP Submersed Pump in
[NW]SESE
Wheel lines in background
Metal Tag No. D0074184



Diversion rate from pump in [NW]SESE
 $326.9 \text{ gpm} = 0.73 \text{ cfs}$

50 HP Pump
SENE
No Metal Tag
Open discharge
Flood Irrigation



Appendix A



Legend

- 68.5 Acres Irrigation on Property, in which 15-731 is a Component
- Township/Range
- Sections
- QQ

2004 Imagery



0 0.045 0.09 Miles