

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-7215

Exam Date: 7/30/2014

1. Current Owner: THOMAS G THOMAS
3410 W 1000 N
MALAD CITY ID 83252
(208)766-2797
2. Accompanied by: LuAnn Thomas
Phone No: 208-766-2797
Address:
Relationship to Permit Holder: Wife

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: *St. John Irrigating Co.*
2. Other water rights with the same point of diversion: None

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

GROUND WATER

SE1/4NE1/4

Sec. 3, Twp 14S, Rge 35E, B.M.

ONEIDA County

Method of Determination: GPS

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	35E	2						2.4	30.0			40.0							72.4
							L 4												
14S	35E	3	22.0			38.0									33.0		25.0		118.0
			L 1																

Total Acres: 190.4

Method of Determination: ArcMap

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.

Well or Diversion Information

200 HP pump, GE, unreadable serial number and model. VFD on site. Runs on a diesel generator.

D. FLOW MEASUREMENTS

1.

Measurement Equipment

Fuji Portaflow C

2. Measurements:

1856.31 gpm. For more information, see attached print-out of flow rates totalized in 10-second intervals.

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

System: $1856.31 \text{ gpm} / 448.83 \text{ gpm/cfs} = 4.14 \text{ cfs}$

POU: $190.4 \text{ acres} * 0.02 \text{ cfs/acre} = \mathbf{3.81 \text{ cfs}}$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 190.4 \text{ acres} \times 3.5 \text{ af/acre} = 666.4 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 4.14 \text{ cfs} \times 214 \text{ days} \times 1.9835 \text{ af-day/cfs} = 1757.3 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 666.4 \text{ AF}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

St Johns Canal shares on property.

One pump, GE 200 HP, serial number and model were unreadable, runs on a generator and has a variable speed drive.

Three pivots (one full, two wipers), wheel lines.

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	3.810 CFS	666.40 AF
<u>Totals:</u>		3.810 CFS	666.40 AF

2. Recommended Amendments

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

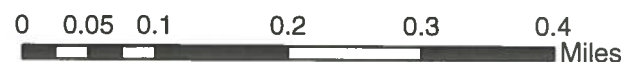
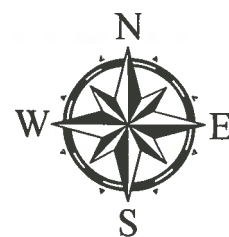
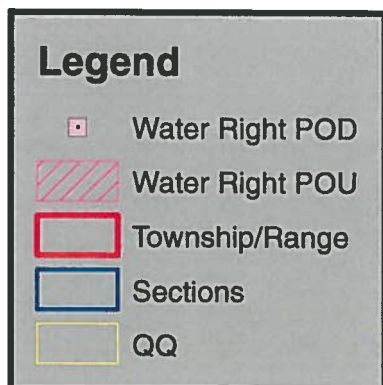
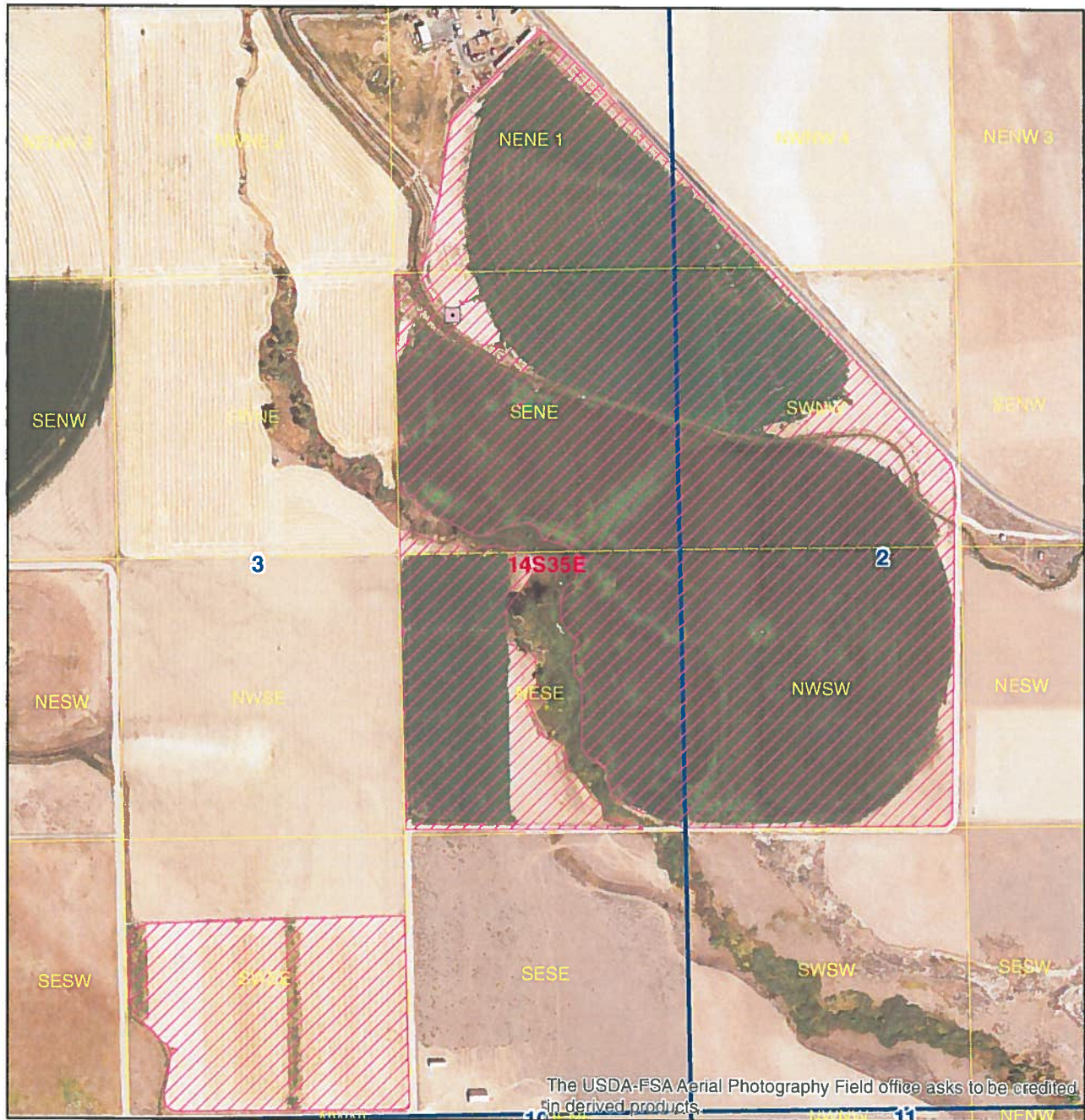
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

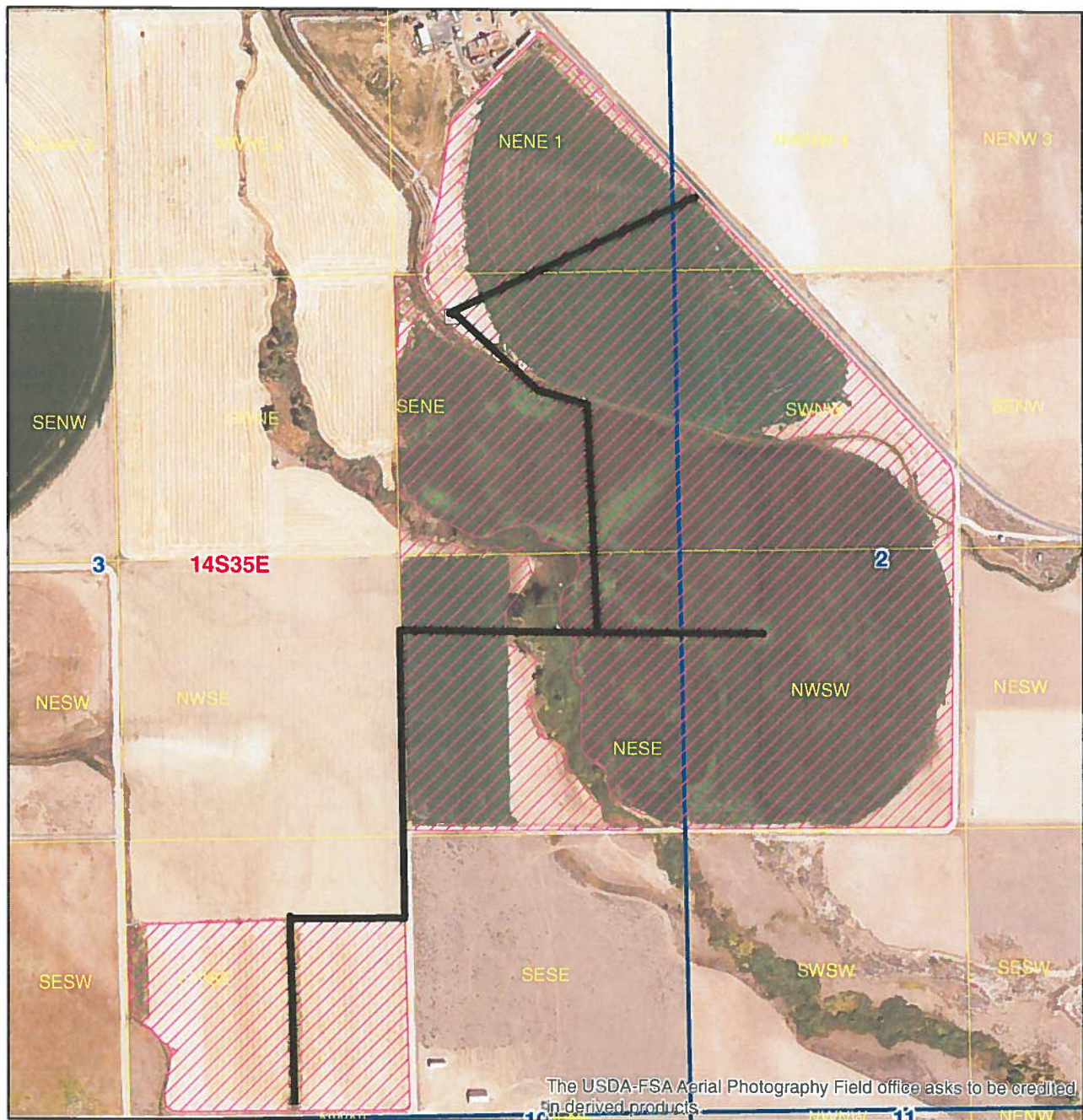
Field Examiner's Name Cooper Fritz Date 2/9/2015

Reviewer _____ Date _____

15-7215 POD and POU

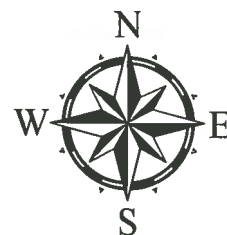


15-7215 Mainline, POD and POU Locations



Legend

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



0 0.05 0.1 0.2 0.3 0.4 Miles

	4 'VELOCITY ft/s	'FLOW RATE gal/min	'+TOTALIZER gal
7/22/2014 14:06	3.912	1839.0324	0
7/22/2014 14:06	3.905	1835.6954	308.491
7/22/2014 14:06	3.933	1848.7977	620.166
7/22/2014 14:06	3.91	1837.7751	921.301
7/22/2014 14:06	3.899	1832.8291	1233.355
7/22/2014 14:06	3.906	1835.9128	1527.651
7/22/2014 14:07	3.916	1840.8362	1839.561
7/22/2014 14:07	3.882	1824.6696	2158.873
7/22/2014 14:07	3.85	1809.7841	2450.188
7/22/2014 14:07	3.863	1815.775	2759.8
7/22/2014 14:07	3.875	1821.3942	3056.825
7/22/2014 14:07	3.914	1839.6697	3367.934
7/22/2014 14:08	3.898	1832.2164	3661.355
7/22/2014 14:08	3.905	1835.5347	3978.798
7/22/2014 14:08	3.899	1832.6868	4273.358
7/22/2014 14:08	3.901	1833.6717	4584.007
7/22/2014 14:08	3.909	1837.1924	4895.829
7/22/2014 14:08	3.898	1832.0586	5194.771
7/22/2014 14:09	3.892	1829.4383	5506.54
7/22/2014 14:09	3.864	1816.1796	5804.195
7/22/2014 14:09	3.877	1822.398	6113.106
7/22/2014 14:09	3.915	1840.177	6407.006
7/22/2014 14:09	3.949	1856.1346	6720.267
7/22/2014 14:09	3.886	1826.7837	7031.739
7/22/2014 14:10	3.912	1839.006	7329.94
7/22/2014 14:10	3.9	1833.306	7643.051
7/22/2014 14:10	3.887	1827.0407	7940.03
7/22/2014 14:10	3.923	1844.0084	8251.786
7/22/2014 14:10	3.949	1856.3146	8547.509
7/22/2014 14:10	3.898	1832.4427	8860.982
7/22/2014 14:11	3.828	1799.5419	9174.666
7/22/2014 14:11	3.869	1818.5175	9465.174
7/22/2014 14:11	3.873	1820.5011	9774.272
7/22/2014 14:11	3.893	1829.8696	10072.803
7/22/2014 14:11	3.869	1818.7111	10384.723
7/22/2014 14:11	3.88	1823.8084	10676.673
7/22/2014 14:12	3.863	1815.8914	10993.237
7/22/2014 14:12	3.882	1824.9548	11284.334
7/22/2014 14:12	3.863	1815.7571	11594.935
7/22/2014 14:12	3.873	1820.5209	11903.694
7/22/2014 14:12	3.834	1802.0609	12198.841
7/22/2014 14:12	3.849	1809.4454	12506.022
7/22/2014 14:13	3.867	1817.4749	12803.514
7/22/2014 14:13	3.86	1814.408	13111.762
7/22/2014 14:13	3.821	1795.8417	13401.258

7/22/2014 14:13	3.847	1808.2799	13709.671
7/22/2014 14:13	3.881	1824.4713	14019.13
7/22/2014 14:13	3.867	1817.7802	14315.64
7/22/2014 14:14	3.851	1810.3309	14622.896
7/22/2014 14:14	3.866	1817.0597	14918.47
7/22/2014 14:14	3.886	1826.6205	15228.82
7/22/2014 14:14	3.867	1817.7246	15520.189
7/22/2014 14:14	3.828	1799.1686	15826.913
7/22/2014 14:14	3.845	1807.4167	16139.885
7/22/2014 14:15	3.812	1791.8002	16428.638
7/22/2014 14:15	3.864	1816.3051	16735.723
7/22/2014 14:15	3.848	1808.8169	17032.006
7/22/2014 14:15	3.845	1807.5686	17339.781
7/22/2014 14:15	3.844	1806.7512	17630.798
7/22/2014 14:15	3.882	1824.6559	17945.328
7/22/2014 14:16	3.843	1806.4675	18235.244

