

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-7206

Exam Date: 7/30/2014

1. Current Owner: NANCY CRANMER
3250 NORTH 5600 WEST
MALAD ID 83252
(208) 766-6753
2. Accompanied by: Jim Cranmer

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 NE1/4SW1/4 Sec. 3, Twp 14S, Rge 35E, B.M.
ONEIDA County

Method of Determination: GPS and ArcMap

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
14S	35E	3									X								

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
14S	35E	3									16.5								16.5

Total Acres: 16.5

Method of Determination:

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 & Diversion Information

D. FLOW MEASUREMENTS

1. Measurement Equipment

Fuji Portaflow C

2. Measurements:

167.11 gpm/system

$(167.11 \text{ gpm/system}) / (448.83 \text{ gpm/cfs}) = 0.37 \text{ cfs/system}$

E. RATE CALCULATIONS

$(16.5 \text{ acres}) * (.02 \text{ cfs/acre}) = 0.33 \text{ cfs for irrigation}$

Domestic as permitted: 0.02 cfs

Total rate for the system = 0.35 cfs

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

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 16.5 \text{ acres} \times 3.5 \text{ af/acre} = 57.8 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.33 \text{ cfs} \times 214 \text{ days} \times 1.9835 = 140.1 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 57.8 \text{ AF}$$

2. Volume Calculations for Other Uses: In-home use: 0.6 AF**G. NARRATIVE/REMARKS/COMMENTS**

One pump, one 14 acre pivot plus a pipe from center pivot to flood two acres total in corners. Same pump also feeds a 1000 gallon storage tank which is used for the yard and in-home.

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>
DOMESTIC	01/01 to 12/31	0.020 CFS	0.6 AF
IRRIGATION	04/01 to 10/31	0.330 CFS	57.8 AF
<u>Totals:</u>		0.350 CFS	58.4 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 3/17/2015

Reviewer _____ Date _____

	4 'VELOCITY ft/s	'FLOW RATE gal/min	'+TOTALIZER gal
7/30/2014 12:50	4.363	165.8079	0
7/30/2014 12:50	4.36	165.7201	27.608
7/30/2014 12:50	4.365	165.9134	54.155
7/30/2014 12:50	4.38	166.4567	82.429
7/30/2014 12:50	4.344	165.1047	110.619
7/30/2014 12:50	4.364	165.8496	137.15
7/30/2014 12:51	4.361	165.7596	165.256
7/30/2014 12:51	4.376	166.3295	193.511
7/30/2014 12:51	4.377	166.3701	220.075
7/30/2014 12:51	4.347	165.1997	248.219
7/30/2014 12:51	4.368	166.0077	276.389
7/30/2014 12:51	4.352	165.3944	303.487
7/30/2014 12:52	4.363	165.819	331.086
7/30/2014 12:52	4.366	165.9449	358.155
7/30/2014 12:52	4.352	165.407	386.313
7/30/2014 12:52	4.353	165.4323	414.435
7/30/2014 12:52	4.372	166.1457	440.966
7/30/2014 12:52	4.376	166.3119	469.21
7/30/2014 12:53	4.357	165.5962	497.393
7/30/2014 12:53	4.368	166.0249	523.896
7/30/2014 12:53	4.364	165.8544	552.121
7/30/2014 12:53	4.353	165.4436	580.284
7/30/2014 12:53	4.352	165.3883	606.701
7/30/2014 12:53	4.376	166.3273	634.945
7/30/2014 12:54	4.374	166.2199	663.156
7/30/2014 12:54	4.348	165.2609	690.283
7/30/2014 12:54	4.338	164.8612	718.338
7/30/2014 12:54	4.356	165.5649	744.745
7/30/2014 12:54	4.362	165.7804	772.931
7/30/2014 12:54	4.367	165.9837	801.098
7/30/2014 12:55	4.378	166.3927	827.735
7/30/2014 12:55	4.368	166.0183	855.98
7/30/2014 12:55	4.353	165.4417	884.113
7/30/2014 12:55	4.368	166.0136	910.626
7/30/2014 12:55	4.369	166.0543	938.84
7/30/2014 12:55	4.367	165.9722	967.097
7/30/2014 12:56	4.387	166.7199	993.702
7/30/2014 12:56	4.363	165.837	1022.011
7/30/2014 12:56	4.379	166.4404	1050.246
7/30/2014 12:56	4.367	165.985	1077.33
7/30/2014 12:56	4.378	166.4068	1105.099
7/30/2014 12:56	4.388	166.7564	1132.304
7/30/2014 12:57	4.388	166.7715	1160.607
7/30/2014 12:57	4.397	167.1081	1188.975
7/30/2014 12:57	4.388	166.7679	1215.703

7/30/2014 12:57	4.373	166.1926	1243.95
7/30/2014 12:57	4.37	166.0897	1272.218
7/30/2014 12:57	4.367	165.9742	1298.809
7/30/2014 12:58	4.362	165.7657	1327.049
7/30/2014 12:58	4.395	167.0366	1355.341
7/30/2014 12:58	4.376	166.309	1382.047
7/30/2014 12:58	4.375	166.2844	1410.32
7/30/2014 12:58	4.376	166.2975	1438.613
7/30/2014 12:58	4.373	166.2146	1465.833
7/30/2014 12:59	4.361	165.7592	1494.06
7/30/2014 12:59	4.395	167.0553	1520.687
7/30/2014 12:59	4.387	166.744	1549.005
7/30/2014 12:59	4.37	166.1035	1577.327
7/30/2014 12:59	4.387	166.734	1603.963
7/30/2014 12:59	4.361	165.7291	1632.221
7/30/2014 13:00	4.382	166.5566	1660.51

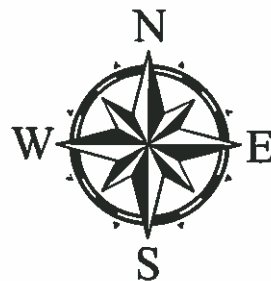
15-7206 POD and POU Locations



2013 Imagery

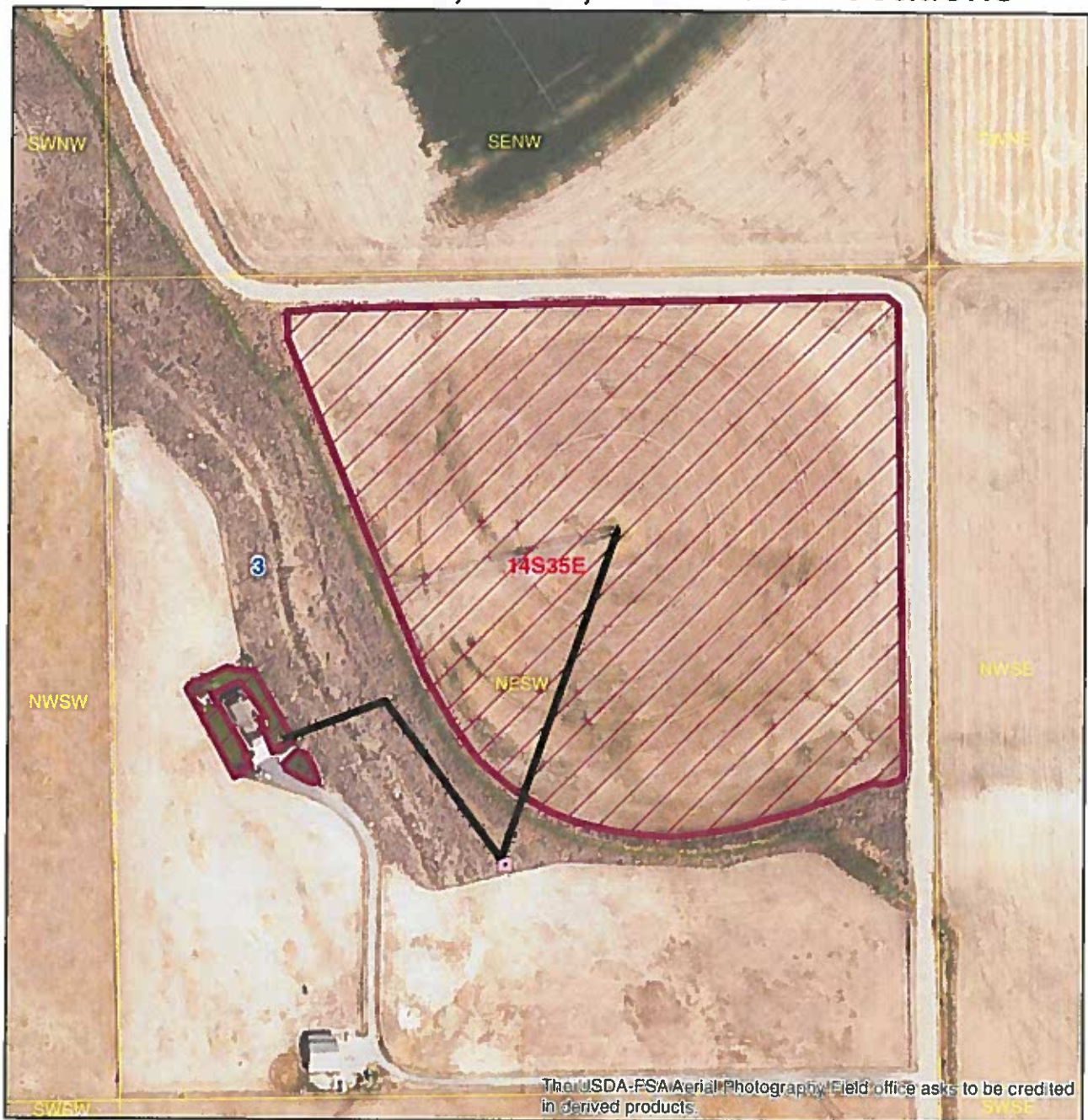
Legend

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



0 0.03 0.06 0.12 Miles

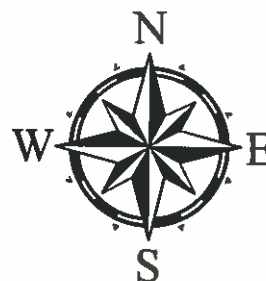
15-7206 Mainline, POD, and POU Locations



2013 Imagery

Legend

- Mainline Location
- ◻ Water Right POD
- ▨ Water Right POU
- ▭ Township/Range
- ▭ Sections
- ▭ QQ



0 0.03 0.06 0.12 Miles



Domestic
User's house

POU's
P. V. O. T.

Pump
House

04/28/2015 13:05