

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-7108

Exam Date: 8/16/2012

1. Current Owner: WILLIAM B HOWARD
1570 W 1500 S
MALAD CITY ID 83252-6594
(208)766-2529

AND

BONITA HOWARD
1570 W 1500 S
MALAD CITY ID 83252-6594
(208)766-2529

2. Accompanied by: William B Howard

Phone No:

Address:

Relationship to Permit Holder: Owner

3. SOURCE

GROUND WATER

TRIBUTARY**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: No
2. Other water rights with the same point of diversion: No

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER

NW1/4SE1/4

Sec. 32, Twp 14S, Rge 36E, B.M.

ONEIDA County

Method of Determination: GIS and Ariel Photography

2.

PLACE OF USE: IRRIGATION

Tw	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	32									30.0			38.0	40.0	39.5	39.0	31.0	217.5

Total Acres: 217.5

Method of Determination: GIS and Ariel 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>
A0010868	Hollowshaft	50	3685723-2	Pomona Fairbanks	

*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>
Portable Flowmeter	FSC	Fuji	S10A1-00Y	A0L5539T		5/30/2012

2. Measurements: A ten minute flow meter reading was performed. Maximum instantaneous flow rate was 2408.3 gpm or 5.37 cfs.

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

Measured Method:

Water right permit 15-7108 = 4.58 cfs

Measured flow = 5.37 cfs

Maximum diversion rate is .02 cfs per acre. (.02*217.5= 4.35 cfs)

Water right will be issued for 4.35 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = 217.5(\text{Acres Irrigated}) \times 3.5 (\text{Irrigation Requirement}) = 761.3$$

$$V_{D.R.} = 4.35 [\text{Diversion Rate (cfs)}] \times 214 (\text{Days in Irrigation season}) \times 1.9835 = 1846.4$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 761.3$$

2. Volume Calculations for Other Uses: None

G. NARRATIVE/REMARKS/COMMENTS

Field exam for this permit was done on 8/16/2012. The pump was powered by a 50 hp motor. A ten minute flow test was done to show maximum instantaneous flow rate.

Ariel Imagery and quarter quarters were not in alignment, therefore the shape file needed to be shifted slightly to the south after acreage measurements were made in order to keep POU boundaries in the correct quarter quarters.

Season of use being change to the Season standard of 4/01 – 10/31.

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	4.350 CFS	761.30 AF
<u>Totals:</u>		4.350 CFS	761.30 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



Date

11/6/2012

Reviewer

James Cefalo

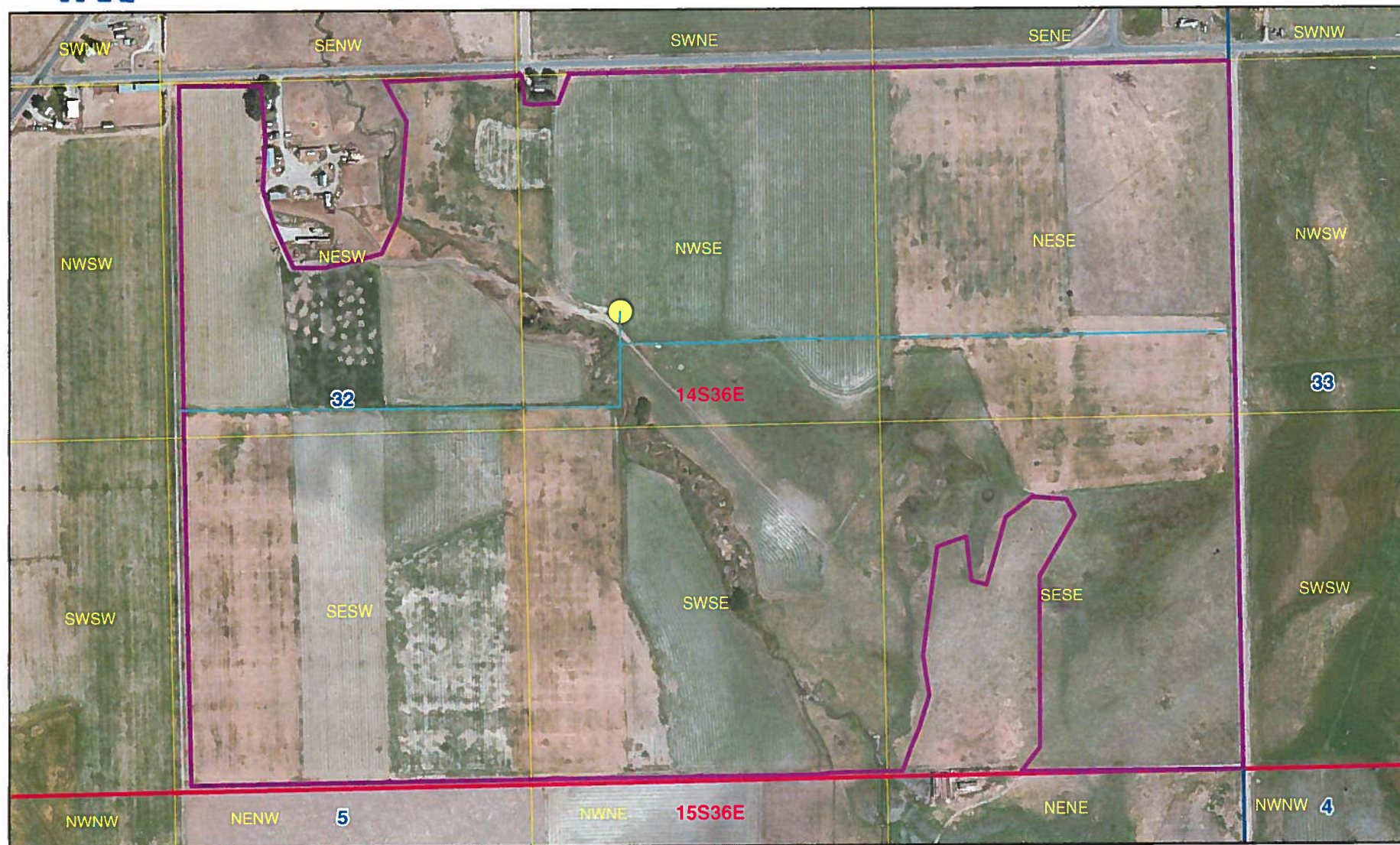
Date

Nov 20, 2012



Idaho Department of Water Resources

Water Right
15-7108
(Irrigation)



- Main Lines
- Place of Use
- Place of Diversion
- Township/Range
- Sections
- QQ



Onieda County IDWR Basin 15

Prepared by Scott Bergendorf
2010 Aerial Photography

0 0.1 0.2 Miles

15-7108	'VELOCITY ft/s	'FLOW RAT gal/min	'TOTALIZER gal
A 8/16/2012 10:23	16.035	2373.631	39953.5
8/16/2012 10:23	16.087	2381.211	40359.6
8/16/2012 10:23	16.115	2385.412	40748.7
8/16/2012 10:23	16.028	2372.544	41151.5
8/16/2012 10:23	16.011	2369.974	41530.3
8/16/2012 10:23	15.966	2363.383	41932.2
8/16/2012 10:24	16.117	2385.663	42319
8/16/2012 10:24	15.91	2355.157	42713.6
8/16/2012 10:24	15.994	2367.578	43115.1
8/16/2012 10:24	16.028	2372.624	43500.8
8/16/2012 10:24	15.968	2363.614	43903.5
8/16/2012 10:24	15.92	2356.584	44305.8
8/16/2012 10:25	15.916	2355.988	44682.8
8/16/2012 10:25	15.964	2363.076	45082.3
8/16/2012 10:25	15.92	2356.622	45483.1
8/16/2012 10:25	15.921	2356.69	45869.5
8/16/2012 10:25	16.033	2373.296	46271.9
8/16/2012 10:25	15.994	2367.468	46650.6
8/16/2012 10:26	15.752	2331.764	47050.7
8/16/2012 10:26	16.013	2370.381	47435
8/16/2012 10:26	15.944	2360.084	47829
8/16/2012 10:26	16.053	2376.286	48223.5
8/16/2012 10:26	16.053	2376.183	48626.7
8/16/2012 10:26	15.961	2362.62	49021.4
8/16/2012 10:27	16.037	2373.827	49408.9
8/16/2012 10:27	16.127	2387.147	49812.9
8/16/2012 10:27	16.19	2396.602	50217.5
8/16/2012 10:27	16.047	2375.359	50599.5
8/16/2012 10:27	16.004	2368.93	51003.8
8/16/2012 10:27	15.841	2344.924	51390.3
8/16/2012 10:28	16.019	2371.276	51790.9
8/16/2012 10:28	16.171	2393.737	52187.7

B 8/16/2012 10:28	16.125	2386.851	52592.5
8/16/2012 10:28	15.926	2357.466	52987.7
8/16/2012 10:28	15.974	2364.606	53365.9
8/16/2012 10:28	16.014	2370.498	53761.7
8/16/2012 10:29	16.037	2373.93	54163.3
8/16/2012 10:29	16.177	2394.608	54560.8
8/16/2012 10:29	16.013	2370.401	54964.9
8/16/2012 10:29	15.942	2359.814	55343.1
8/16/2012 10:29	16.041	2374.427	55735.3
8/16/2012 10:29	16.214	2400.113	56132.4
8/16/2012 10:30	16.047	2375.329	56537.3
8/16/2012 10:30	15.964	2363.147	56934.4
8/16/2012 10:30	16.173	2394.036	57338.7
8/16/2012 10:30	15.991	2367.093	57718.9
8/16/2012 10:30	16.084	2380.881	58116.5
8/16/2012 10:30	15.985	2366.176	58520.3
8/16/2012 10:31	15.926	2357.383	58916
8/16/2012 10:31	16.097	2382.831	59312.5
8/16/2012 10:31	16.11	2384.684	59716.8
8/16/2012 10:31	16.27	2408.308	60099.8
8/16/2012 10:31	16.074	2379.43	60497.1
8/16/2012 10:31	15.973	2364.387	60899.6
8/16/2012 10:32	16.114	2385.331	61297.6
8/16/2012 10:32	16.084	2380.825	61695.3
8/16/2012 10:32	16.105	2383.924	62100.3
8/16/2012 10:32	16.101	2383.37	62481.2
8/16/2012 10:32	16.1	2383.206	62879.4
8/16/2012 10:32	16.046	2375.259	63283.3
8/16/2012 10:33	16.129	2387.488	63680.1
8/16/2012 10:33	16.047	2375.38	64084.8
8/16/2012 10:33	16.142	2389.424	64481.6
8/16/2012 10:33	15.933	2358.501	64860.9
8/16/2012 10:33	16.033	2373.296	65255.6
8/16/2012 10:33	16.188	2396.185	65660.8

Maximum instant flow rate
2408.3 or
5.37 cfs

C

8/16/2012 10:34	16.008	2369.617	66058
8/16/2012 10:34	16.017	2370.916	66460.1
8/16/2012 10:34	16.006	2369.363	66840.1
8/16/2012 10:34	15.98	2365.494	67233.1
8/16/2012 10:34	16.055	2376.539	67630.6
8/16/2012 10:34	16.05	2375.816	68032.9
8/16/2012 10:35	16.07	2378.768	68429.7
8/16/2012 10:35	16.001	2368.575	68832.6
8/16/2012 10:35	15.965	2363.253	69210.8
8/16/2012 10:35	16.093	2382.113	69607.6
8/16/2012 10:35	16.064	2377.899	70013.8
8/16/2012 10:35	15.924	2357.115	70407.8
8/16/2012 10:36	16.099	2383.059	70803.4
8/16/2012 10:36	16.263	2407.275	71185.6
8/16/2012 10:36	15.93	2358.011	71589.6
8/16/2012 10:36	15.971	2364.181	71985.5
8/16/2012 10:36	15.958	2362.122	72388.8
8/16/2012 10:36	15.928	2357.789	72783.3
8/16/2012 10:37	15.901	2353.765	73179.2
8/16/2012 10:37	16.17	2393.53	73560.6
8/16/2012 10:37	15.88	2350.652	73964.8
8/16/2012 10:37	15.952	2361.256	74356.6
8/16/2012 10:37	16.04	2374.351	74760.1
8/16/2012 10:37	16.086	2381.205	75154.8
8/16/2012 10:38	16.004	2368.936	75559.7
8/16/2012 10:38	16.167	2393.146	75933.5
8/16/2012 10:38	16.029	2372.737	76340
8/16/2012 10:38	16.167	2393.118	76736.9
8/16/2012 10:38	15.983	2365.896	77141.9
8/16/2012 10:38	15.892	2352.462	77534.4
8/16/2012 10:39	15.995	2367.595	77936.5
8/16/2012 10:39	15.959	2362.276	78314.3
8/16/2012 10:39	15.901	2353.78	78708.8
8/16/2012 10:39	16.065	2377.976	79103.7

D

8/16/2012 10:39	16.197	2397.639	79508
8/16/2012 10:39	16.033	2373.294	79905.4
8/16/2012 10:40	16.035	2373.516	80308.1
8/16/2012 10:40	16.083	2380.65	80687.8
8/16/2012 10:40	15.969	2363.803	81083.2
8/16/2012 10:40	16.051	2376.007	81485.8
8/16/2012 10:40	15.944	2360.072	81879.9
8/16/2012 10:40	16.049	2375.664	82275.2
8/16/2012 10:41	16.004	2368.945	82654.2
8/16/2012 10:41	15.971	2364.157	83055.9
8/16/2012 10:41	15.882	2350.974	83448.8
8/16/2012 10:41	16.034	2373.426	83850.7
8/16/2012 10:41	16.038	2373.993	84243.6
8/16/2012 10:41	15.983	2365.849	84640.4



