

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-7170

Exam Date: 8/16/2012

1. Current Owner: MARK G COLTON
1497 S 1200 W
MALAD CITY ID 83252
(208)766-2226
2. Accompanied by: Mark Colton
Phone No:
Address:
Relationship to Permit Holder:

3. **SOURCE****TRIBUTARY**

GROUND WATER

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 SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER

SE1/4NE1/4

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

ONEIDA County

Method of Determination: Ariel and 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	36E	32				3.2													3.2

Total Acres: 3.2

DOMESTIC same as IRRIGATION

Method of Determination: Ariel and GPS

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 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 Size</u>
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*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
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2. Measurements:

E. FLOW CALCULATIONS☐ Additional Computation Sheets Attached

Measured Method: Theoretical Calculation

$$Q = \frac{8.8 \times 1 \text{ HP} \times .70 \text{ Efficiency}}{(15 \text{ ft} + 40 \text{ psi})} = .112 \text{ cfs or } 50.3 \text{ gpm}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = 3.2 \text{ (Acres Irrigated)} \times 3.5 \text{ (Irrigation Requirement)} = 11.2$$

$$V_{D.R.} = .08 \text{ [Diversion Rate (cfs)]} \times 214 \text{ (Days in Irrigation season)} \times 1.9835 = 33.95$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 11.2 \text{ AF}$$

2. Volume Calculations for Other Uses:

$$\text{Domestic} - 2 \text{ homes} \times .6(\text{AF}) = 1.2 \text{ AF}$$

G. NARRATIVE/REMARKS/COMMENTS

Only an in-house exam was required for this license, but a partial field exam was completed to verify information. Pump is 1HP in a well house. Irrigation system is single hose and sprinkler for the pasture area and a domestic sprinkler system for the lawn area immediately around the house. Well is connected to two homes on property.

Changed POD and POU to correct Quarter Quarter.

Updated season of use to new standards.

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	0.080 CFS	11.20 AF
DOMESTIC	01/01 to 12/31	0.060 CFS	1.2 AF
<u>Totals:</u>		0.080 CFS	12.40 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 Jim Byrne Date 8/16/2012

Reviewer James Cepalo Date Jan 9, 2013



Idaho Department of Water Resources

Water Right
15-7170
(Irrigation & Domestic)



Onieda County IDWR Basin 15

Prepared by Scott Bergendorf
2010 Aerial Photography



● Point of Diversion
□ Place of Use

0 0.0325 0.065 Miles



