

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 21-7349

Exam Date: 8/16/2007

1. Current Owner: BETTY HAMBERLIN
305 W 18TH
IDAHO FALLS ID 83402

VINCE AQUINO
575 11TH ST
IDAHO FALLS ID 83404

LARSON E HAMBERLIN
305 W 18TH
IDAHO FALLS ID 83402

2. Accompanied by: Larson Hamberlin

Phone No: (208) 522-6487

Address: See above

Relationship to Permit Holder:

3. **SOURCE**

TRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: see attached
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 NE1/4NW1/4
FREMONT County

Sec. 16, Twp 13N, Rge 43E, B.M.

Method of Determination: GPS

2.

PLACE OF USE: IRRIGATION

Tw	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
13N	43E	16					2.9												2.9

Total Acres: 2.9

DOMESTIC same as IRRIGATION

Method of Determination: Fremont County plat data

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>
A0018204					

*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>

2. Measurements:

E. FLOW CALCULATIONS

Measured Method:

☐ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1 \text{ acre} \times 3 \text{ AF/acre/Year} = 3 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.030 \text{ cfs} \times 184 \text{ days} \times 1.9835 = 10.94892 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 3 \text{ AFA}$$

2. Volume Calculations for Other Uses: 2 homes with 0.6 afa per home is 1.2 afa

G. NARRATIVE/REMARKS/COMMENTS

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	05/01 to 10/31	0.030 CFS	3.0 AF
DOMESTIC	01/01 to 12/31	0.040 CFS	1.2 AF
<u>Totals:</u>		0.070 CFS	4.2 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 Joe Luesel Date 22 Aug 07

Reviewer _____ Date _____

Comment Report

21-7349

1. jlarsen 8/22/2007 POD

Comment: Updated shape

2. jlarsen 8/22/2007 POU

Comment: Updated Shape

3. jlarsen 8/22/2007 POU

Comment: Updated PLS

4. jlarsen 8/22/2007 Field Report Narrative

Comment: The well for these properties was originally drilled by Larson Hamberlin in 1973. When the nieghbor built thier home Larson allowed them to tie into his well to save money.

There is a single well that supplies water to two vacation homes through 1 inch lines to both homes.

The irrigation amount for this permit will allow the owners to maintain a defendable fire break around the houses.

Unable to get flow measurements. The 1 inch pipes from the well are not suitable for actual measurement. The owner can not remember the HP of the pump and the contol box for the well has been outside so long that it is impossible to get the HP from it making it impossible to calculate a theoretical value.

5. jlarsen 8/22/2007 POU overlap Annalysis

Comment: The Water Rights sharing QQ are:

21-7004

21-10553



