

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 23-7136

Exam Date: 5/19/2015

1. Current Owner: LOREN C ALEXANDER
HC 34 BOX 10
SWAN VALLEY ID 83449
(208)483-2609

2. Accompanied by:

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: 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	NW1/4SE1/4	Sec. 17,	Twp 01N,	Rge 44E, B.M.
BONNEVILLE County				
GROUND WATER	NW1/4SE1/4	Sec. 17,	Twp 01N,	Rge 44E, B.M.
BONNEVILLE County				

Method of Determination: GPS and site visit.

2.

PLACE OF USE: COMMERCIAL

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
01N	44E	17															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
01N	44E	17															1.0		1.0

Total Acres: 1

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
01N	44E	17	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
																X			

Method of Determination: Aerial photography and site visit

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>
		1.5			
		1.5			

D. FLOW MEASUREMENTS

1. Measurements:

E. FLOW CALCULATIONS☐ Additional Computation Sheets Attached

Measured Method:

Theoretical flow calculation.

$$Q = \frac{8.8 \times (\text{Efficiency}) \times \text{hp}}{\text{depth to water} + 2.31 \times (\text{psi}) + \text{friction}}$$

$$\frac{8.8 \times 1.5 \times 0.70}{20 \text{ ft} + 2.31 \times 50} = 0.07 \text{ cfs}$$

$$0.07 \text{ cfs} \times 2 \text{ pumps} = 0.14 \text{ cfs.}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.0 \text{ acres} \times 3.5 \text{ af} = 3.5 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \text{ cfs} \times 1.9835 \text{ af} \times 214 \text{ days} = 12.7 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 3.5 \text{ af}$$

2. Volume Calculations for Other Uses:

Domestic for 1 home = 0.6 acre-feet

Commercial use:

Café/ store = 0.6 acre-feet

7 RV hookups X 40 gallons per day X 365 days = 0.3 acre-feet

3 cabins X 40 gallons per day X 365 days = 0.3 acre-feet

Hookups for tents x 50 gallons per day X 365 days = 0.06 acre-feet

Total commercial use = 1.3 acre-feet

G. NARRATIVE/REMARKS/COMMENTS

Water delivery system consists of two submersible pumps (1.5 hp) which provide water to a RV park. Domestic use is for one home. Commercial use is for a café/store, RV park and motel. There is approximately 1.0 acre of grass within the park being irrigated.

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>
COMMERCIAL	01/01 to 12/31	0.060 CFS	1.30 AF
IRRIGATION	04/01 to 10/31	0.030 CFS	3.50 AF
DOMESTIC	01/01 to 12/31	0.040 CFS	0.60 AF
<u>Totals:</u>		0.130 CFS	5.40 AF

2. Recommended Amendments

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

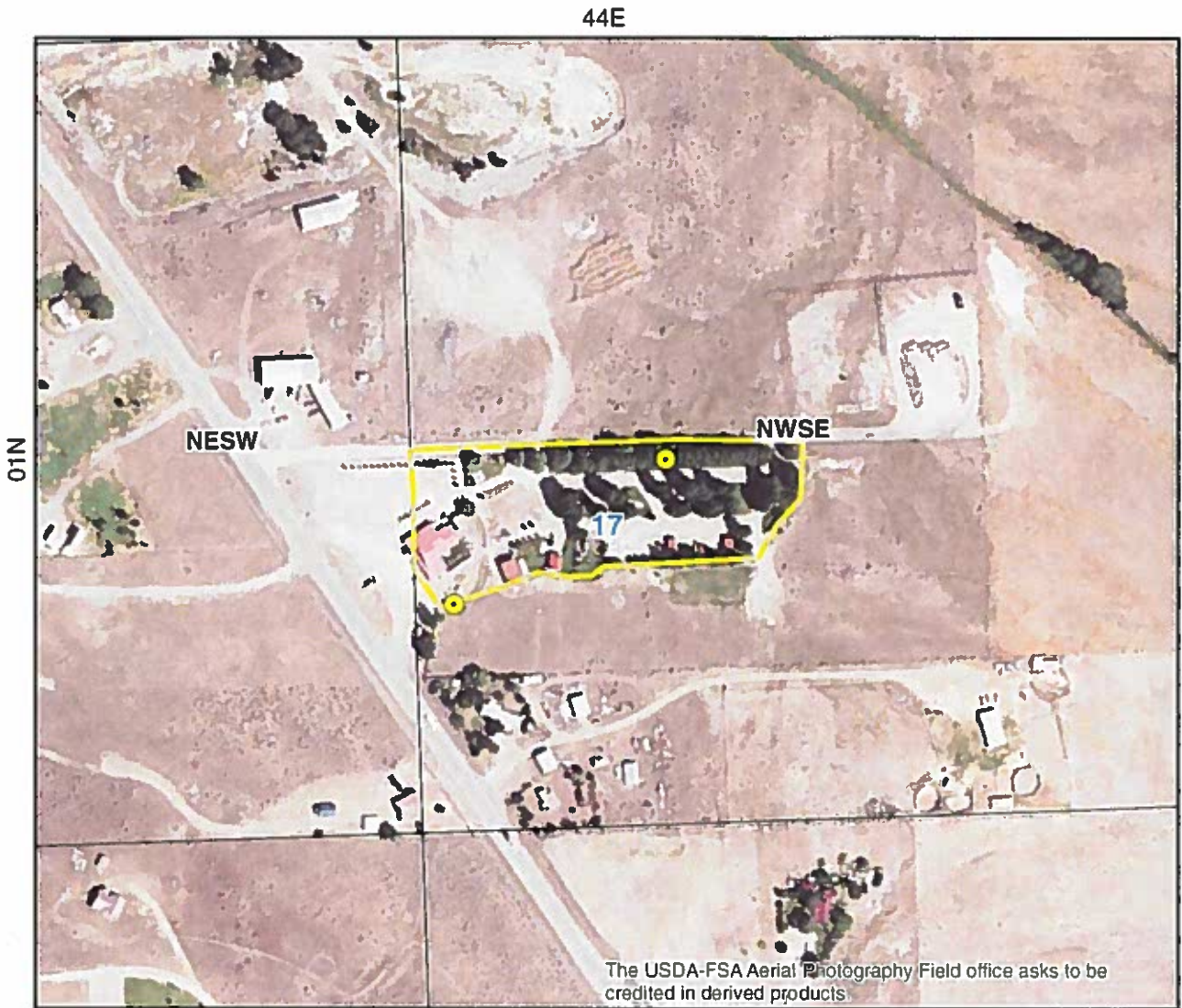
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Blake Jordan Date 5/19/2015
Reviewer James Cefalo Date 8/6/15



State of Idaho
Department of Water Resources
Water Right License
23-7136



- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters

0 0.035 0.07 0.14 Miles

