

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 75-14157

Exam Date: 6/25/2013

1. Current Owner: STANLEY POTTS
4 REDSIDE WAY
SHOUP ID 83469
(208)788-4584
2. Accompanied by: Stanley Potts
Phone No:
Address:
Relationship to Permit Holder: permit holder

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

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 75-14299 Colson Creek Irrigation Co.
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER NE1/4NW1/4 Sec. 30, Twp 23N, Rge 17E, B.M. LEMHI County

Method of Determination: GPS

2.

PLACE OF USE:

DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
23N	17E	30					X												

Method of Determination:

3. ☐ Delivery System Diagram Attached. 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 or Diversion**Pump Serial No. or Discharge**

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

Measurement
Equipment

Type**Make****Model No.****Serial No.****Size****Calib. Date**

2. Measurements: None

E. FLOW CALCULATIONS

 X Additional Computation Sheets Attached

Measured Method: none

Domestic based on one house:

Recommended rate 0.04 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: NONE

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

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

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

2. Volume Calculations for Other Uses:

Headgate requirement 3.5 af/a

No volume was given on the permit

Based upon the development of one house:

Recommended volume: 1.2 AF

G. NARRATIVE/REMARKS/COMMENTS

The permit was developed to supply water to the Wilderness View Subdivision. A 5,000 gallon tank was installed on the north side of the subdivision between lots 4A and 4B near the main road. The water system tied into the Colson Irrigation district. A main line, designed to supply water to lots 1-3 and 4A and 4B ran just below the Salmon River road. A second line ran south to connect to a main east-west line for lots 6-9.

The lots were stubbed in during the development period. Stanley Potts submitted beneficial use in 1998. At the time of the field exam they were stubbed in but not fully developed. Application Processing Memo #18 (Licensing #1) discusses the development of a subdivision over a long period of time. If the Department issues a permit for a number of homes, and proof is submitted for those homes, but a field exam completed years later finds a much smaller number were developed, the Department would only license the number actually diverted. Sufficient time has passed to complete the development of the subdivision. According to Mr. Potts, the system did not work out.

The well sits in lot 6 and continues to supply water to this lot and lot 5, which is currently a runway. As of this writing there is no house on either lot. The imagery from 1998 shows a house on Lot 6. Both the 2004 and 2011 imagery show a house in the same location (see attachment). The existence of the house during the development period supports issuing this license for domestic use. Ground water for this right does not co-mingle with water from Colson Creek.

Have conditions of permit approval been met? Y 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	0.040 CFS	1.2 AF
<u>Totals:</u>		0.040 CFS	1.2 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 Sandra Thiel Date 4/28/2016

Reviewer _____ Date _____



ESRI Imagery 2013



House

2011 NAIP Imagery

State of Idaho
Department of Water Resources
Water Right License
75-14157

This map depicts the DOMESTIC place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.

17E



- Point of Diversion
- Place Of Use Boundary

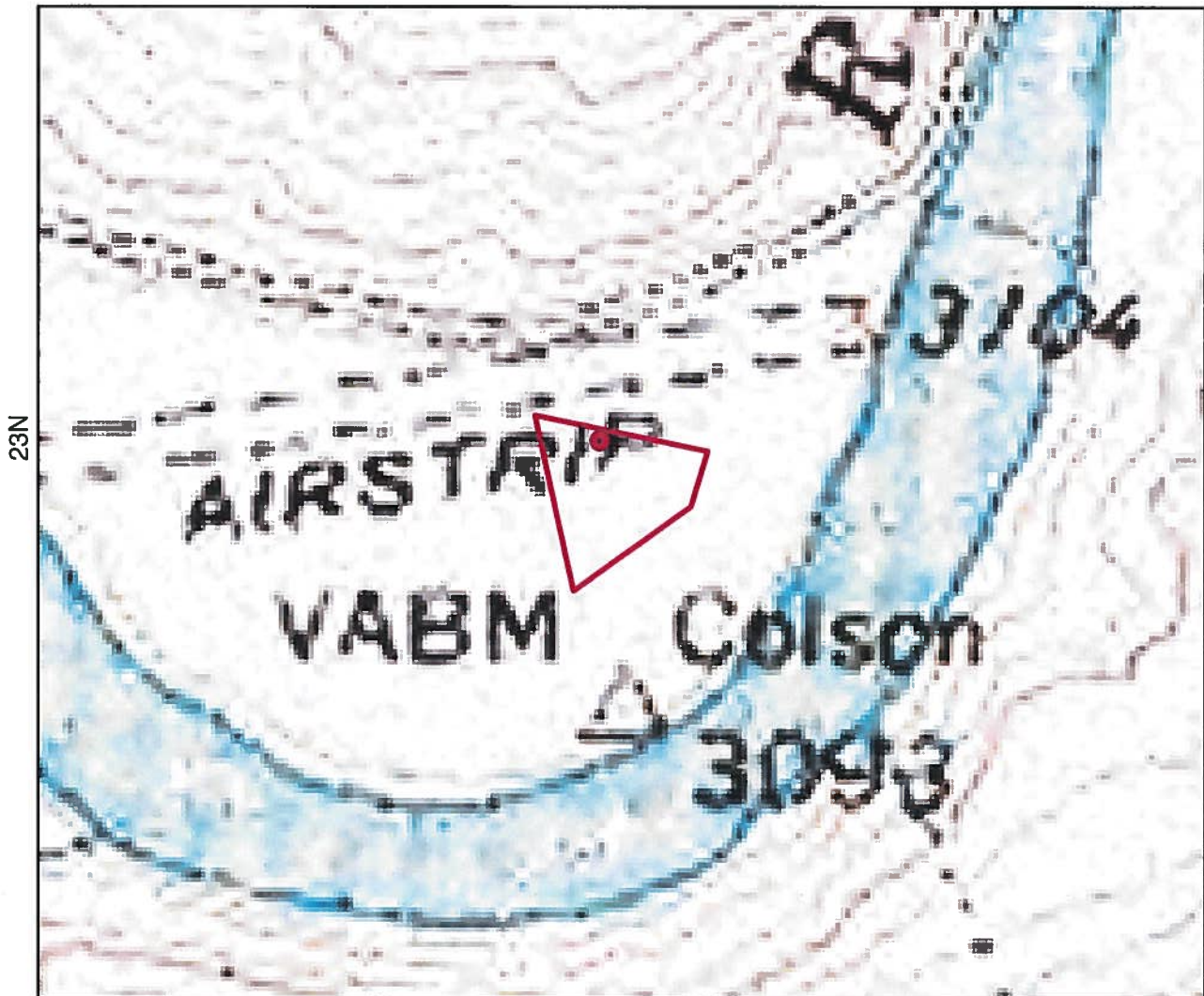


0 250 500 750 Feet

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17E



- Point of Diversion
- Place Of Use Boundary



0 250 500 750 Feet

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 75-14157
Examiner: Sandra Thiel

	Option 1	OPTION 2	OPTION 3	
P/D No.:				
PUMP HORSEPOWER	15	15	15	
BOOSTER HORSEPOWER	0	0	0	
PUMPING LEVEL	205	205	205	
DISCHARGE PRESSURE	40	50	60	
FRICITION	0			
RATE OF FLOW (cfs)	0.31	0.29	0.27	AVE
(gpm)	139.4	129.4	120.7	0.29

The above calculates the formula =
$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.

Examiners Notes:

Pump information based on email from owner
pumping level based on well log
12 kwat pump
12 kwats / 0.745699872 = 16 hp - standard pumps are 15 hp