

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 72-16902

Exam Date: 9/10/2012

1. Current Owner: STEVEN K WORKMAN
272 RIVER DR
HC 67 BOX 2077
CHALLIS ID 83226
(208)838-2910
2. Accompanied by: Jeff Cooper (IDWR). Jeff and I spoke with Mr. Workman (permit holder) prior to exam.

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

L1 NE1/4NW1/4

Sec. 19, Twp 12N, Rge 19E, B.M.

CUSTER County

Method of Determination: Aerial photography and field verification

2.

PLACE OF USE: STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
12N	19E	19					X												
							L 1												

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
12N	19E	19					X												
							L 1												

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
12N	19E	19					.7												.7
							L 1												

Total Acres: 0.7

Method of Determination: Aerial photography and field verification

D. FLOW MEASUREMENTS Not required for permits with irrigation of less than five (5) acres or permits with the total combined diversion rate for all the uses established in connection with the permit not exceeding twenty-four one hundredths (0.24) cubic feet per second per new Beneficial Use Examination Rules implemented 3/29/2012. Can allow irrigation rate of up to 0.03 cfs per acre and allow domestic diversion rate of 0.04 cfs for one home.

E. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: 0.7 acres per ARCMAP & standard diversion allowance for area is 3.5 AFA / acre

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (0.7 \text{ acres}) \times (3.5 \text{ AFA per acre}) = 2.45 \text{ AFA (use 2.5 AFA)}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (0.03 \text{ cfs})(0.7 \text{ acres}) \times (214 \text{ days})(1.9835) = 8.9 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 2.5 \text{ AF}$$

2. Volume Calculations for Other Uses:

Stockwater = 2 head of cattle @ 12 gpd + chickens (assume 5 gpd) = 29 gpd

29 gpd x 365 days / 325850 gallons per AF = 0.032AF (use 0.1 AF)

Domestic use allow 0.6 AF (IDWR standard) for in house culinary use

F. NARRATIVE/REMARKS/COMMENTS

Application for Permit 72-7567 was filed by Don & Maude Lou Greenwell on December 7, 1998 seeking to appropriate a total of 0.16 cfs from two wells for domestic, irrigation, and stockwater uses for Lots 2 and 3 within the Tunnel Rock Acres Subdivision, 1st addition, south of Challis. On March 2, 1999, Permit 72-7567 was issued. The permit was later assigned to Steven K. Workman. On March 25, 2010, Mr. Workman filed Proof of Beneficial Use for permit 72-7567. On September 10, 2012, while in the area, Jeff Cooper and I met with Mr. Workman and then proceeded to conduct the licensing exam for the permit. During our discussion, Mr. Workman indicated that the permit was developed as two different systems. One well is located on Lot 2 of Tunnel Rock Acres Subdivision, 1st addition, for use on that lot with another separate well located on Lot 3 of Tunnel Rock Acres Subdivision, 1st addition, for use on that lot. Mr. Workman indicated that the wells are not physically tied together and the use from each well is limited to the lot it is located on. For this reason, draft license 72-7567 was split into two draft licenses, 72-16902 (for lot # 2) and 72-16903 (for lot # 3).

The 72-16902 system consists of a well that is located on Lot # 2 of Tunnel Rock Acres Subdivision, 1st addition (see attached photo). Water from this well is used to provide domestic water for one home, stockwater for a couple of cows and a flock of chickens, and irrigation water for landscaping (yard, trees, and garden) all on Lot # 2 of Tunnel Rock Acres Subdivision, 1st addition. Lot # 2 is one acre in size, but the irrigated area on Lot # 2 was measured at approximately 0.7 acre using Arcmap and aerial photography. The recommended diversion rates for each use are based on one half of the 72-7567 permitted rates (the other half being assigned to 72-16903 for Lot # 3) except that the irrigation rate is limited to 0.03 cfs per acre (0.03 cfs x 0.7 acres = 0.02 cfs). The recommended diversion volumes for each use are limited to the amounts outlined in the volume calculations section above. Note that permit 72-7567 was permitted with an irrigation season of 4/15 to 10/15. It is recommended that license 72-16902 be issued with an irrigation period of use matching the current IDWR standard of 4/1 to 10/31 for the area. The 72-16902 system is located within water district 170, but is located within sub-district 72D.

Have conditions of permit approval been met? ☒ Yes ☐ No

G. RECOMMENDATIONS**1. Recommended Amounts**

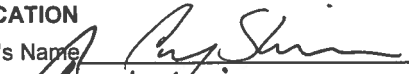
<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
STOCKWATER	01/01 to 12/31	0.010 CFS	0.10 AF
DOMESTIC	01/01 to 12/31	0.040 CFS	0.60 AF
IRRIGATION	04/01 to 10/31	0.020 CFS	2.50 AF
	<u>Totals:</u>	0.070 CFS	3.20 AF

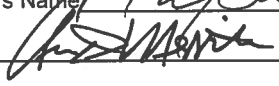
2. Recommended Amendments

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

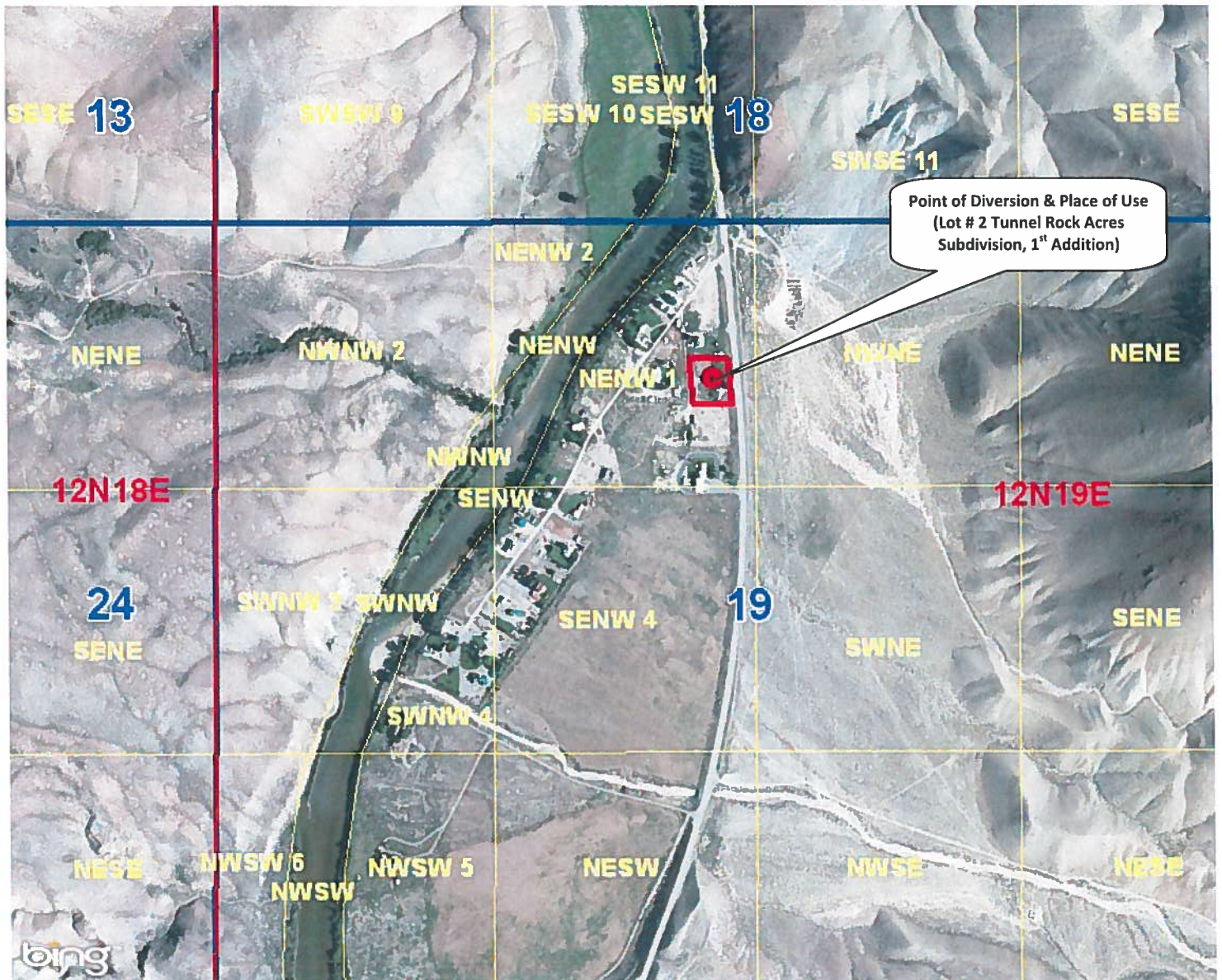
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

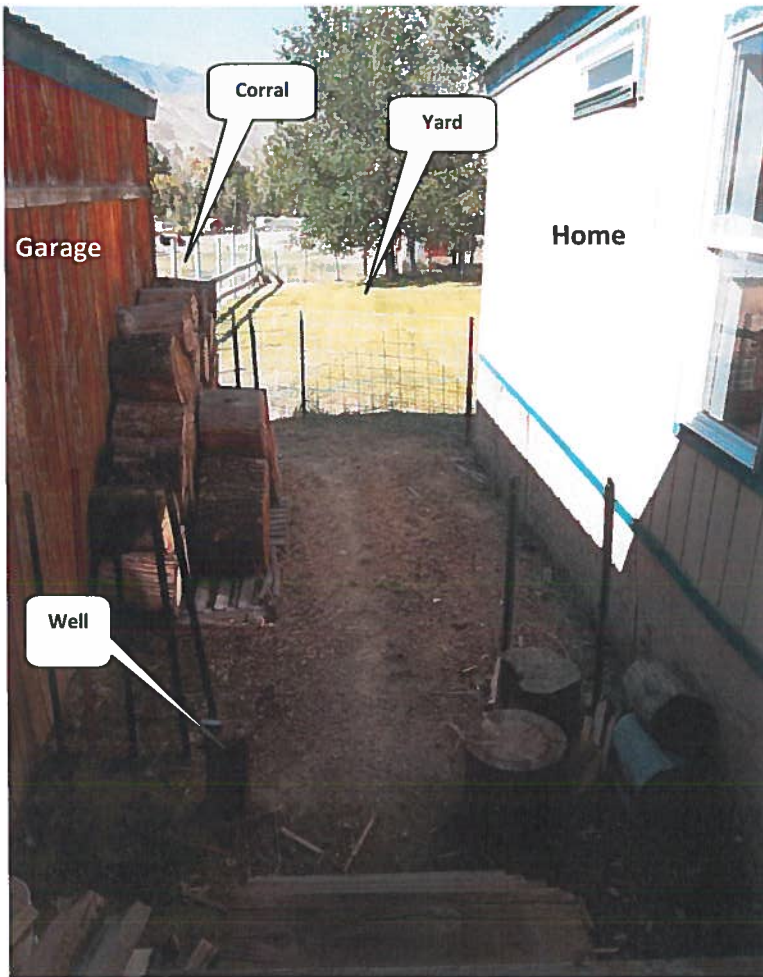
Field Examiner's Name  Date 1/23/13

Reviewer  Date 1/25/13

72-16902 Point of Diversion & Place of Use Map



72-16902 Point of Diversion & Place of Use Photos



LEFT: View looking north between the garage and home located on Lot # 2 of Tunnel Rock Acres Subdivision, 1st Addition, showing the location of the well that serves as the point of diversion for right 72-16902. Note the irrigated yard and the livestock corral visible on this lot in the background of this view.

BELOW: View from the front (west) of Lot # 2 of Tunnel Rock Acres Subdivision, 1st Addition, looking towards the southern portion of the lot showing additional irrigation on the lot.

