

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 72-16903

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
12N	19E	19	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
							X												
							L 1												

PLACE OF USE:

DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
12N	19E	19	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
							X												
							L 1												

PLACE OF USE:

IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
12N	19E	19	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
							.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 estimated and 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 horses @ 12 gpd = 24 gpd

24 gpd x 365 days / 325850 gallons per AF = 0.027 AF (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 72-16903 system consists of a well that is located on Lot # 3 of Tunnel Rock Acres Subdivision, 1st addition (see attached photo). Water from this well is used to provide domestic water for one residence, stockwater and irrigation water all on Lot # 3 of Tunnel Rock Acres Subdivision, 1st addition. The uses on Lot # 3 are not quite as apparent as some of the other lots within the subdivision. The domestic residence consists of a camp trailer (see attached photo). Lot # 3 is one acre in size, but it did not appear to be obviously irrigated. Mr. Workman indicated that it had been irrigated from the well in the past, but he now just disks the property keeping it bare in an effort to control weeds. However, there are some trees located on the property and it was observed that there was quite a bit of garden hoses stored in tires near the center of the property (see attached photo). It was clear that an irrigation system had been used even though the system apparently consisted of a faucet and a bunch of garden hoses. The fact that the trees were alive on the farthest end of the property from the well indicates that some irrigation definitely occurred in the past. Allowing for a residence site, other existing building footprints, and a driveway and turnaround it appears that about 0.7 acre could have been irrigated on the property. During the exam, no livestock were observed on the property, but the lot was fenced, with a gate, and Mr. Workman indicated that they had had a couple of horses on the property in the past.

The recommended diversion rates for each use are based on one half of the 72-7567 permitted rates (the other half being assigned to 72-16902 for Lot # 2) 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 72-16903 be issued with an irrigation period of use matching the current IDWR standard of 4/1 to 10/31 for the area. The 72-16903 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

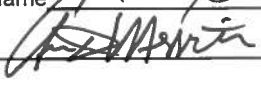
2. Recommended Amendments

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

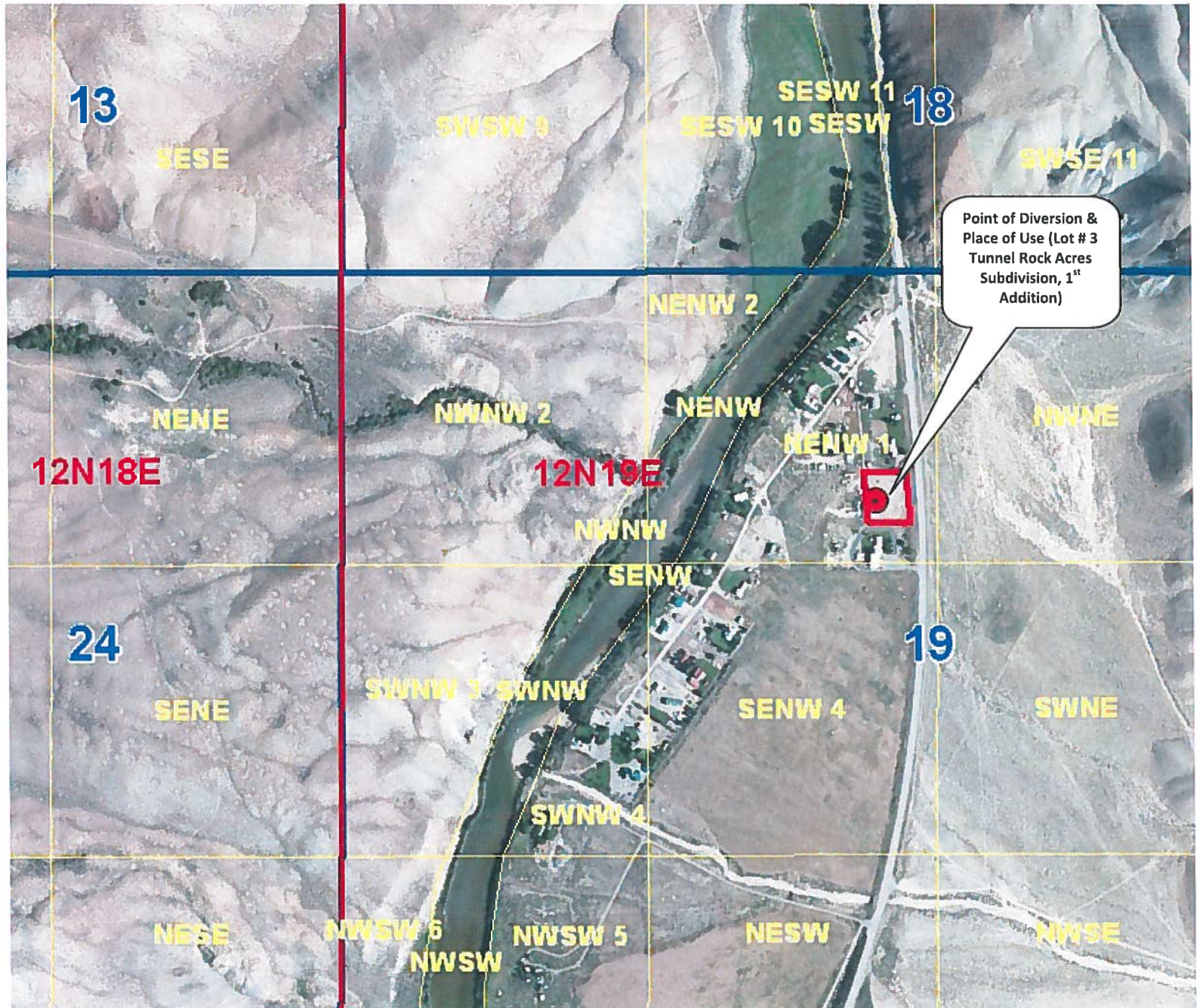
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

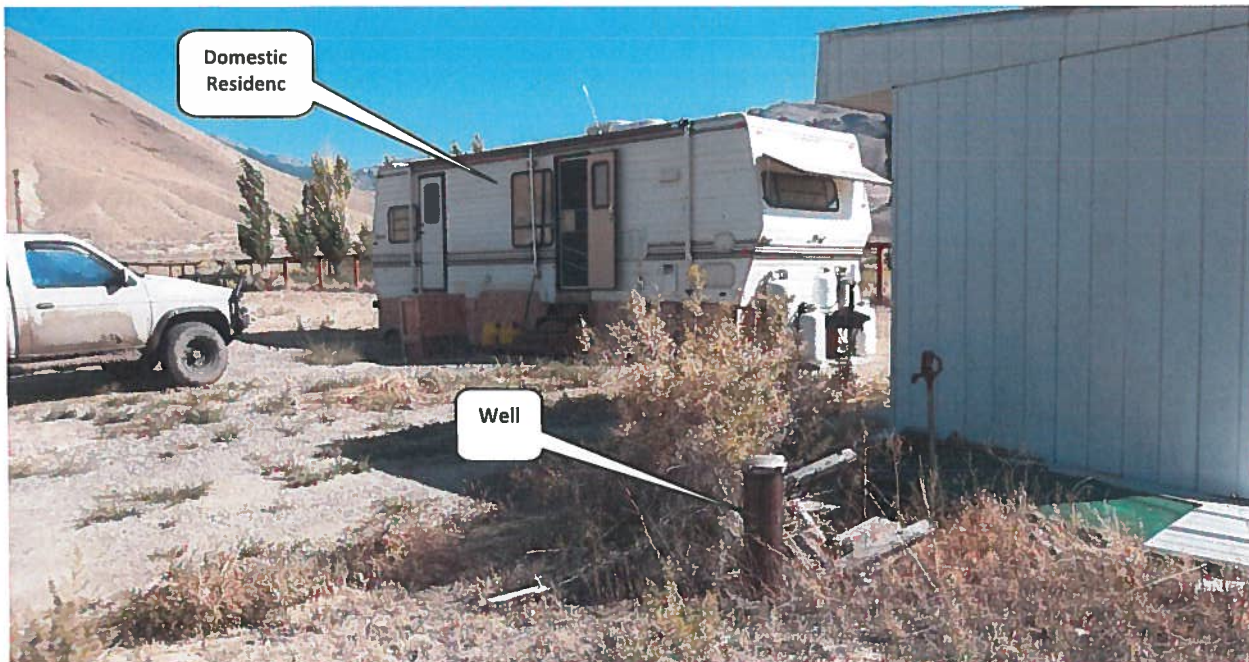
Field Examiner's Name  Date 1/23/13

Reviewer  Date 1/25/13

72-16903 Point of Diversion & Place of Use Map



72-16903 Point of Diversion & Place of Use Photos



ABOVE: View of the well that serves as the point of diversion for right 72-16903 on Lot # 3 of Tunnel Rock Acres Subdivision, 1st Addition. The camp trailer in the background is the domestic residence on this lot.

BELOW: View near the center of Lot # 3 of Tunnel Rock Acres Subdivision, 1st Addition. Garden hoses were stored in the tires shown in this view. The indicated trees are located on Lot # 3.

