

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 72-16650

Exam Date: 9/25/2013

1. Current Owner: DARR MOON
HC 67 BOX 304
STANLEY ID 83278
(208) 838-3714
2. Accompanied by: Darr Moon (Permit Holder), Jim Bitzenburg (IDWR) & Jana Reeder (IDWR)

3. SOURCE**TRIBUTARY**

UNNAMED STREAM

JORDAN CREEK

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:**

UNNAMED STREAM

SW1/4NW1/4SE1/4

Sec. 29, Twp 13N, Rge 15E, B.M.

CUSTER County

Method of Determination: GPS & Aerial Photography

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
13N	15E	29	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
																X			

Method of Determination: Aerial Photography

D. FLOW MEASUREMENTS &/or FLOW CALCULATIONS

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. However, the diversion system consists of a small pipe that is buried from the small unnamed stream for a few feet to a buried 210 gallon storage tank. A 1.5" diameter plastic pipeline runs from the storage tank to the place of use further down the hill. There was no practical way to measure the flow rate due to the storage tank being located next to the point of diversion, and this part of the system being buried. The permit holder indicated that the actual diversion rate is quite small and estimated that it takes overnight to fill a 250 gallon tank that is located further down the hill from the diversion system. Assuming "overnight" equates to approximately 10 hours, a volume of 250 gallons in a 10 hour period would equate to approximately 0.42 gpm (significantly less than 0.01 cfs). It is recommended that the diversion rate be licensed at 0.01 cfs (smallest amount recognized in IDWR computer system).

E. VOLUME CALCULATIONS

Not required for 42-111 Domestic Use permits per new Beneficial Use Examination Rules implemented 3/29/2012. This permit allows for domestic use associated with one home and is limited to a daily diversion of 13,000 gpd. However, as discussed in the Flow Measurement &/or Flow Calculations section on the previous page, a rather small diversion rate has been developed. The permit holder indicated that the actual diversion rate is quite small and estimated that it takes overnight to fill a 250 gallon tank that is located further down the hill from the diversion system. Assuming "overnight" equates to approximately 10 hours, a volume of 250 gallons in a 10 hour period would equate to approximately 0.42 gpm. Over a 24-hour period, assuming continuous flow, this estimated flow rate would yield a daily volume of approximately 600 gallons. It is recommended that the license be limited to a daily diversion volume of 600 gallons per day.

F. NARRATIVE/REMARKS/COMMENTS

Application for Permit 72-16650 was filed by Darr Moon on July 27, 2004 seeking to appropriate 0.04 cfs from an unnamed stream for domestic purposes on property he owns near the Grouse Creek mine approximately 25 miles southwest of Challis. On September 25, 2004, Permit 72-16650 was issued. Darr Moon filed Proof of Beneficial Use on July 15, 2005. A field exam appointment was arranged with Mr. Moon and on September 25, 2013, while in the area, Jim Bitzenburg, Jana Reeder, and I met with Mr. Moon and then proceeded to conduct the licensing exam for the permit.

The diversion system consists of a small pipe that is buried from the small unnamed stream for a few feet to a buried 210 gallon storage tank. A 1.5" diameter plastic pipeline runs from the storage tank to the place of use further down the hill. The place of use consists of a home, with a small yard, and a garage/shop with a bathroom inside. GPS and aerial photography indicates that the POD & POU are located where they were permitted. Due to the relatively small developed diversion rate and resulting diversion volume it is recommended that 72-16650 be licensed with a diversion rate of 0.01 cfs (smallest amount recognized in IDWR computer system) and a daily diversion volume limit of 600 gallons per day. Mr. Moon indicated that the system will ice up at times, but once enough snow is present the system stays insulated enough to continue to flow water and is utilized in the winter. Therefore, a year round period of use is recommended for licensing.

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>
DOMESTIC	01/01 to 12/31	0.010 CFS	N/A
<u>Totals:</u>		0.010 CFS	N/A

2. Recommended Amendments

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

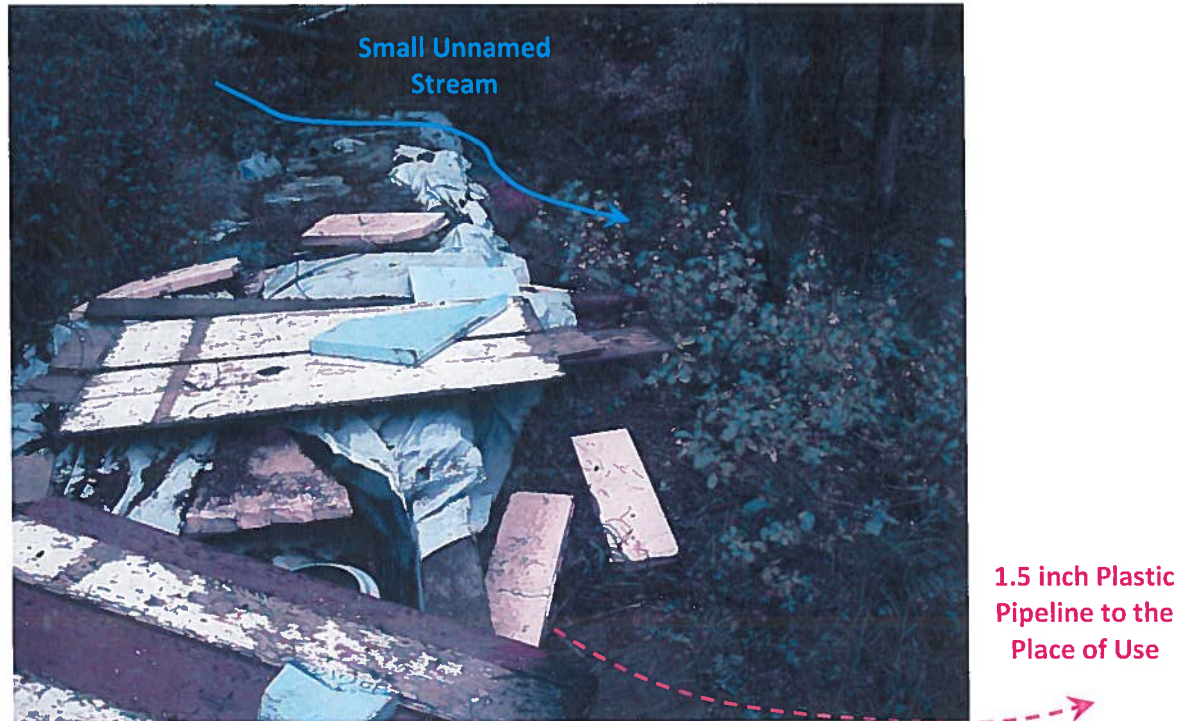
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

H. AUTHENTICATION

Field Examiner's Name Ray Skinner Date 2/10/2014

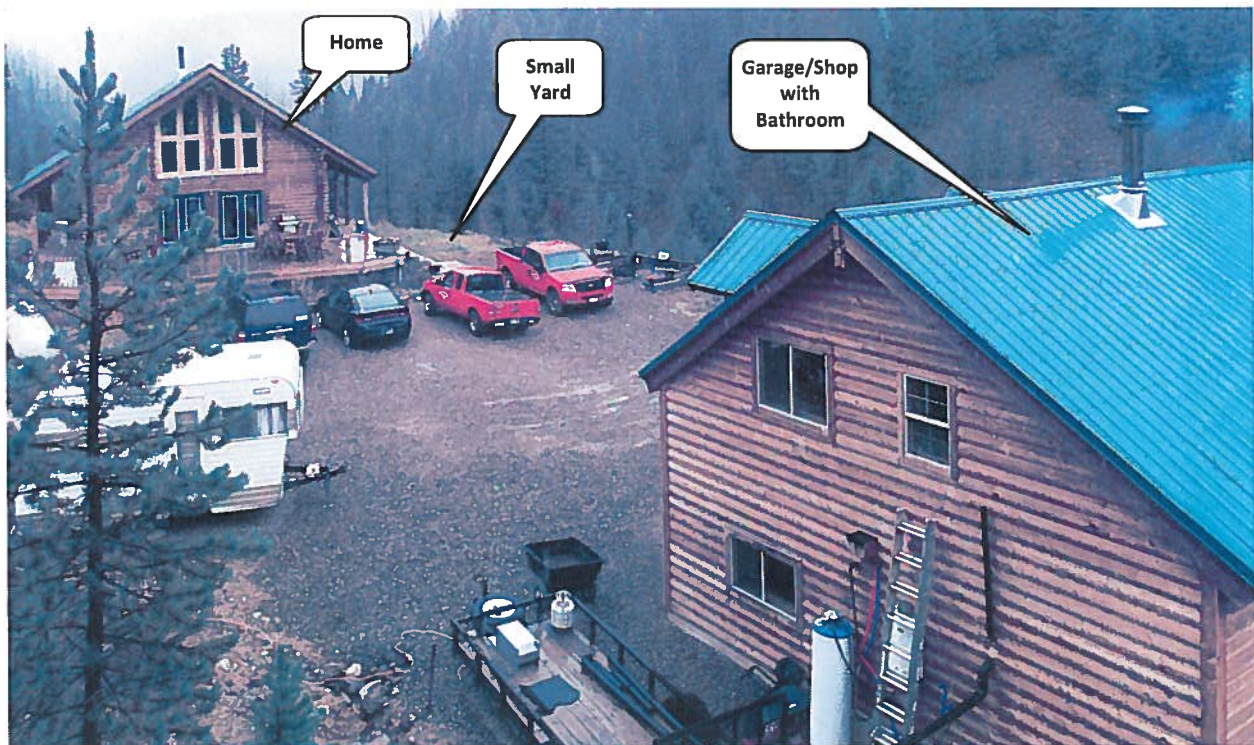
Reviewer Jim Bitzenburg Date 3/25/2014

72-16650 Point of Diversion & Place of Use Photos



ABOVE: View of Point of Diversion location (buried diversion pipe and 210 gallon storage tank buried under debris in foreground). A 1.5 inch plastic pipeline leads to the Place of Use shown below.

BELOW: View of Place of Use (home, garage/shop with bathroom, and small yard) further down the hill than view above.



72-16650 Point of Diversion & Place of Use Map

