

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 72-16622

Exam Date: 9/26/2014

1. Current Owner: UNITED STATES OF AMERICA ACTING THROUGH
USDI BUREAU OF LAND MANAGEMENT
IDAHO STATE OFFICE
1387 S VINNELL WAY
BOISE ID 83709-1657
(208) 373-4000

2. Accompanied by: Benny Walker (IDWR)

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

SW1/4SE1/4

Sec. 31, Twp 14N, Rge 20E, B.M.

CUSTER County

Method of Determination: GPS & aerial photography

2.

PLACE OF USE: STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
13N	20E	6		X															
				L 2															
14N	20E	31															X		

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	
13N	20E	6		X															
				L 2															
14N	20E	31															X		

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.

E. FLOW CALCULATIONS

Theoretical yield:
$$Q = \frac{8.8 \times (Hp) \times (Eff)}{H}$$

Where: Hp = 1.5 Hp (from electrical box in pump house)

Eff = 70% (assumed)

H = elevation distance + 2.31 x operating pressure (static water level on 2002 well log is listed at 76.5 feet, but pumping level on well test was 273 feet with a drawdown of 117 feet. Assume 273 feet to be conservative. Also assume operating pressure of 40 psi.).

$$H = 273.0 \text{ feet} + (2.31 \times 40.0 \text{ psi}) = 365.4 \text{ feet}$$

$$Q = \frac{8.8 \times (1.5) \times (0.70)}{365.4}$$

$$Q = 0.025 \text{ cfs} \quad (\text{Note permitted rate is only 0.02 cfs, therefore recommend 0.02 cfs to be licensed}).$$

F. VOLUME CALCULATIONS

Not required for 42-111 type domestic uses per new Beneficial Use Examination Rules implemented 3/29/2012. Stockwater use can be considered a "part a" domestic use (up to 13,000 gpd). Note that 0.02 cfs produces just less than 13,000 gpd.

G. NARRATIVE/REMARKS/COMMENTS

Application for Permit 72-16622 was filed on April 16, 2002 by the Bureau of Land Management for the diversion of 0.02 cfs of groundwater for domestic and stockwater use associated with the wild horse corrals east of Challis. The permit was issued on September 18, 2002 and proof of beneficial use was filed on October 3, 2003. Note that the permit actually lapsed prior to proof of beneficial use being filed, but the permit was reinstated with an advancement of the priority date to April 18, 2002. On September 26, 2014, Benny Walker and I conducted the licensing field exam for permit/right 72-16622.

The system consists of a drilled well that provides water to several troughs in corrals and various water faucets located around the corrals. During the exam it was noted that a camp trailer was present at the corrals documenting potential domestic use. During the exam no horses, or other livestock, were present, but there was visible evidence of past livestock use. A theoretical calculation indicates that the well could potentially yield the permitted amount of 0.02 cfs. It was noted during the exam that the well and a water faucet were actually located in the SWSE of Section 31 (T14N, R20E) with additional water infrastructure being located within Lot 2 (NWNE) of Section 6 (T13N, R20E). The permit identified the point of diversion and place of use as being located within Lot 2 (NWNE) of Section 6 (T13N, R20E) only. For this reason, a licensing amendment was solicited from the permit holder to correct the point of diversion and place of use. The signed licensing amendment and fee was recently received allowing for the licensing of 72-16622.

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

H. RECOMMENDATIONS**1. Recommended Amounts**

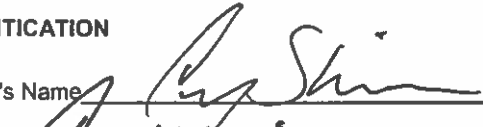
<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
STOCKWATER	01/01 to 12/31	0.020 CFS	N/A
DOMESTIC	01/01 to 12/31	0.020 CFS	N/A
<u>Totals:</u>		0.020 CFS	N/A

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

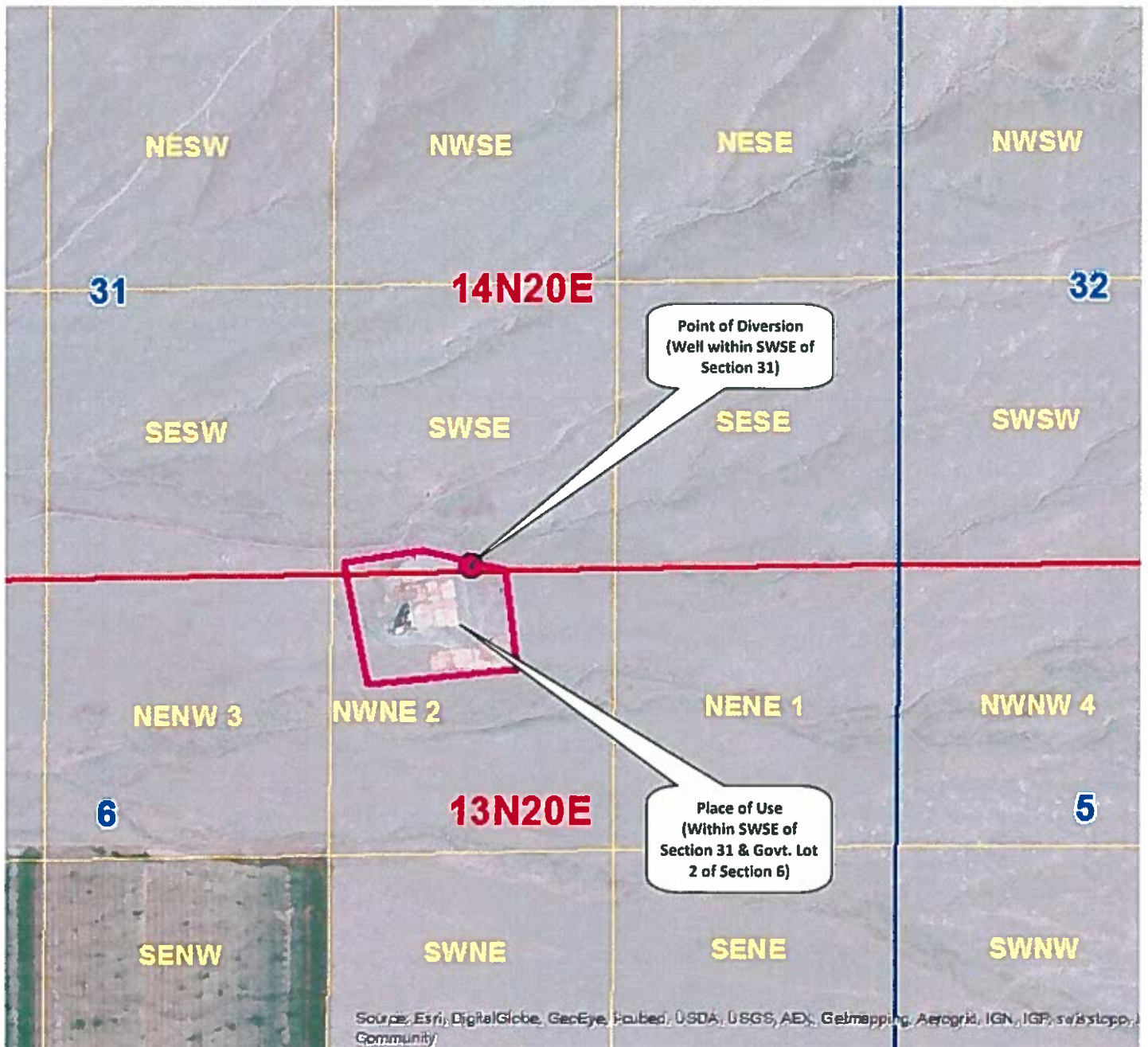
I. AUTHENTICATION

Field Examiner's Name  Date 10/14/14

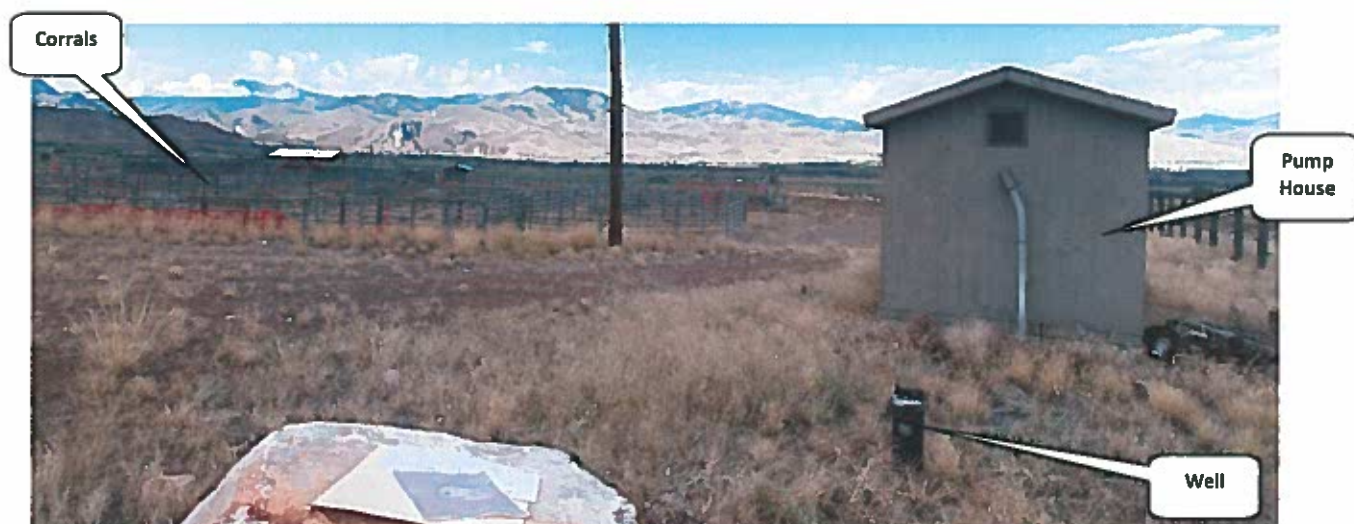
Reviewer  Date 10/17/14

72-16622 Point of Diversion & Place of Use Map

Esri Imagery



72-16622 Point of Diversion & Place of Use Photos



ABOVE: View of well (point of diversion) and corrals (place of use). Note that the well is actually located within the SWSE of Section 31 (T14N, R20E) which is not the permitted location.

BELOW: View of water faucet located within SWSE of Section 31 (T14N, R20E) not within the permitted place of use. Note that there was no water in the restroom facility shown in this view.



72-16622 Point of Diversion & Place of Use Photos



ABOVE: View inside of pump house with electrical box identifying pump as 1.5Hp

BELOW: View in corrals showing water trough (stockwater use) and camp trailer (domestic use)



