

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 45-13430

Exam Date: 10/7/2014

1. Current Owner: CHURCH OF JESUS CHRIST OF THE LATTER DAY SAINTS
OAKLEY STAKE
50 E NORTH TEMPLE 12TH FLOOR
NATURAL RESOURCE SERVICES
SALT LAKE CITY UT 84150
(801) 240-3263
2. Accompanied by: James Mullen
Phone No: 208-260-0834
Address: Oakley, ID
Relationship to Permit Holder: Camp Manager

3. SOURCE TRIBUTARY
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 45-4202
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 NE1/4SE1/4 Sec. 36, Twp 12S, Rge 23E, B.M.
CASSIA County

Method of Determination: Field observation and GPS of Well head

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	
12S	23E	36													X				X

Method of Determination: Field observations, and Aerial photography

3. _____ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
 ___X___ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
 ___X___ Aerial Photo Attached (required for irrigation of 10+ acres).
 _____ Photo of Diversion and System Attached

4.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
Tag #D0023507	N/A	3	N/A	N/A	N/A

D. FLOW MEASUREMENTS

A measurement is not required for Domestic use if diversion rate does not exceed 0.24 cfs according to new Beneficial Use Examination Rules dated 3/29/2012:

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

Measured Method: Theoretical yield:

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

Where: Hp = 3 Hp pump (per Pump Service Inc./ Steve Baker)

Eff = efficiency = 70% assumed

H = total head = pumping level + (2.31 x system pressure)

pumping level of 189 feet (per Pump Service Inc./ Steve Baker)

assume system pressure = 40 psi

$$H = 189 + (40 \times 2.31) = 281.4$$

$$Q = \frac{8.8 \times 3 \times .70}{281.4} = 0.0656 = 0.07 \text{ cfs}$$

Theoretical yield calculation indicates the well is capable of pumping 0.07 cfs. Permit 45-13430 is for 0.02 cfs since the theoretical yield estimates a flow measurement to be 0.07 cfs, more than the permitted amount.

Therefore: **Recommend 0.02 cfs for this license**

F. VOLUME CALCULATIONS

Not required for 42-111 type domestic uses per new Beneficial Use Examination Rules implemented 3/29/2012

Idaho code 42-111 allows for 13,000 gpd for domestic use.

Daily use of 250 people at 50 gpd/person* = 12,500 gpd.

*50 gpd/person used from the Field Examiners Handbook, Non-Irrigation Water Requirements.

A diversion rate of 0.02 cfs will produce approximately 13,000 gpd

G. NARRATIVE/REMARKS/COMMENTS

Application for permit 45-13430 was filed on January 23, 2002 by Church of Jesus Christ of Latter Day Saints, Oakley ID Stake. Permit 45-13430 is for the diversion of 0.02 cfs of groundwater for domestic use associated with a church camp organization. On May 30, 2003 permit 45-13430 was issued to Church of Jesus Christ of Latter Day Saints, Oakley Stake. Proof of Beneficial Use was due on or before April 1, 2006. Proof of Beneficial Use was filed on February 10, 2006 by the permit holder.

On October 7, 2014 I met with James Mullen, camp manager and toured the property. I took photographs of the camp sites, lodge and kitchen, the shower and restroom facilities and GPS'd the well head. The lodge has a meeting/dining area and kitchen. The second floor of the lodge has a sleeping area. The kitchen has a double sink, two stoves, three refrigerators and a electric water heater. The lodge and kitchen has a hydrant on each end of the building. There is a large brick building that is the bathroom and shower facility for the camp, with 4 sinks, 3 showers and 3 stalls and 2 urinals in the men's and 4 sinks, 3 showers and 5 stalls women's area. There are 2 on demand hot water heaters for this facility. Additional there are 2 hydrants located in the camping and theater areas.

The camp is available for use 4/1 through 10/31 with a heavy use period from 6/1 through 8/31. The camp is used for various types of groups from family vacations/reunions, girls and boys camps, scout camps and events, and adult retreats and other activities organized through the church. The camp averages approximately 100 people a night per week for 4-6 days and as many as 250 people a night with a maximum occupancy of approximately 340 people a night per week for 4-6 weeks during the season of use.

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>
DOMESTIC	01/01 to 12/31	0.020 CFS	
<u>Totals:</u>		0.020 CFS	

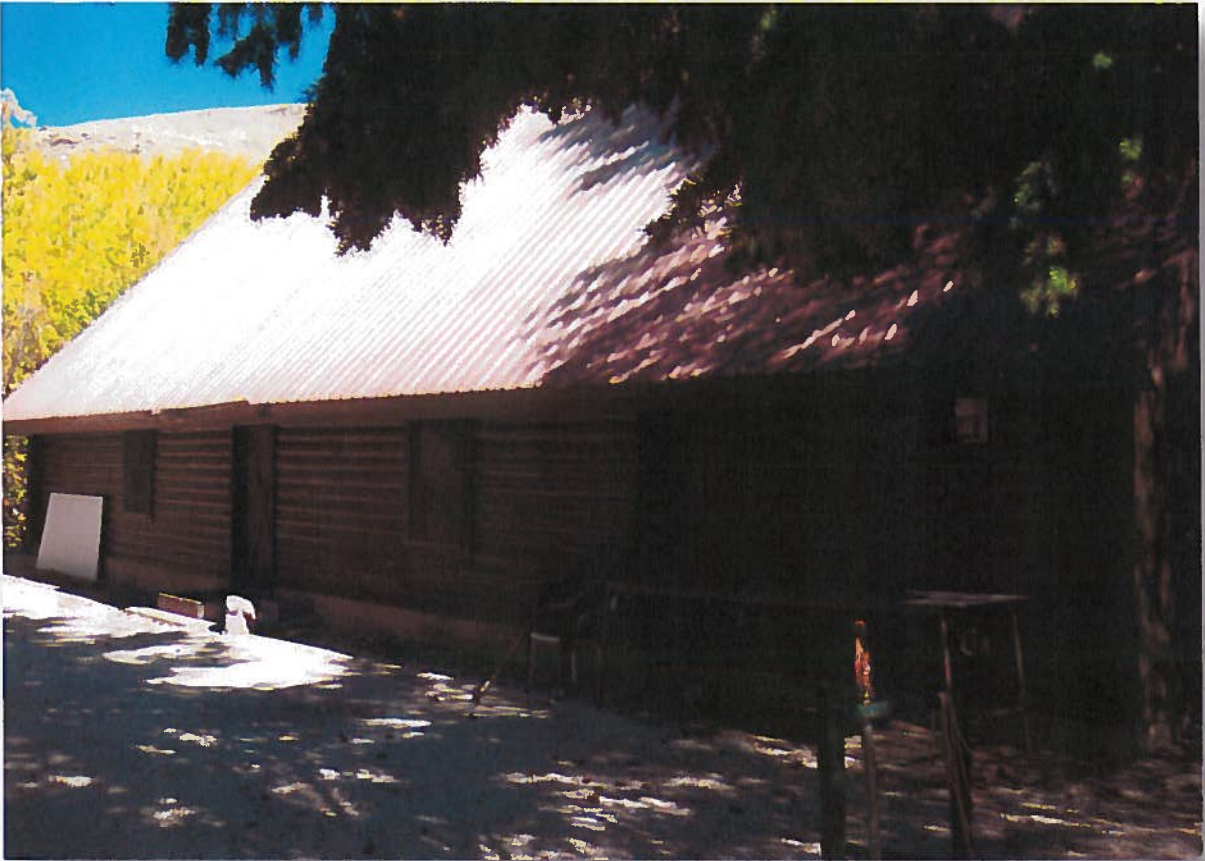
2. Recommended Amendments

☐ 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 Benny Walker Date 4/23/15
 Reviewer [Signature] Date 4/27/15

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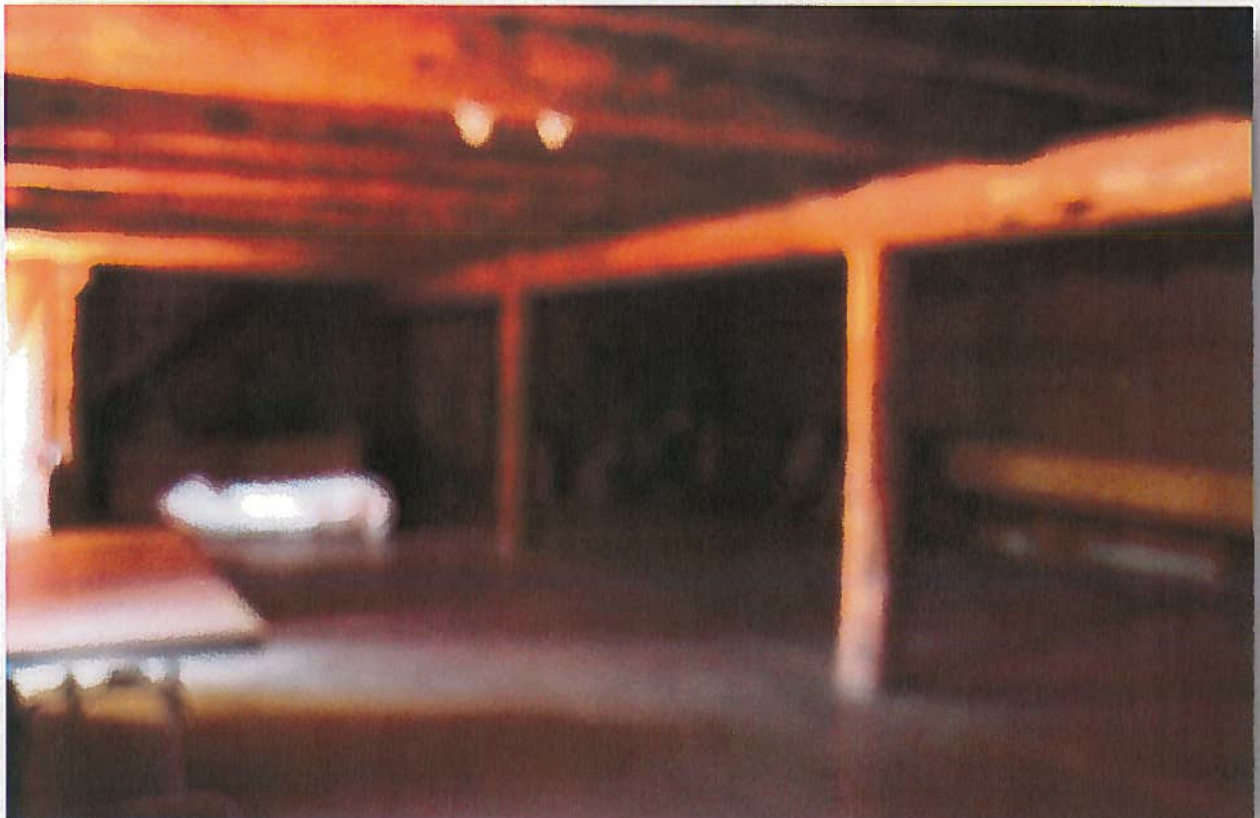
Lodge with Hydrants on each end



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Lodge Kitchen and Dining/Meeting area



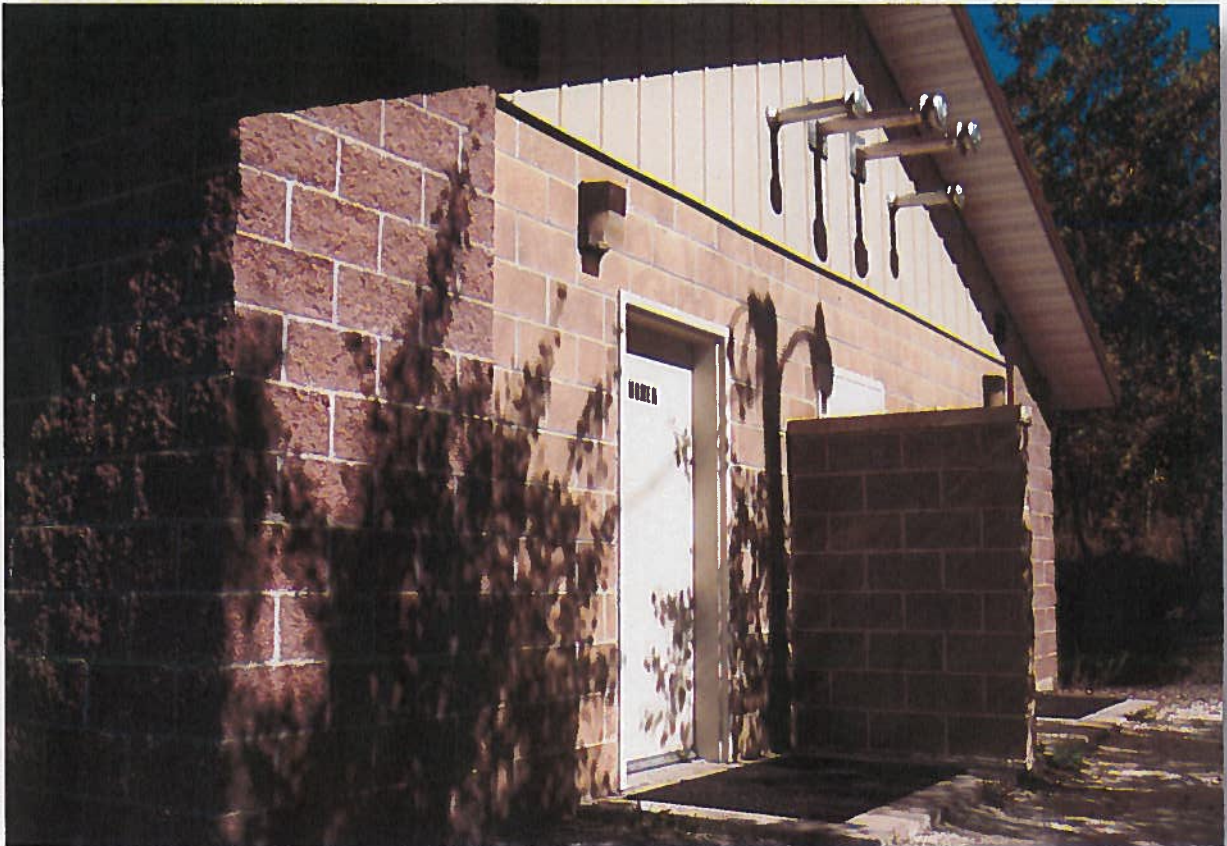
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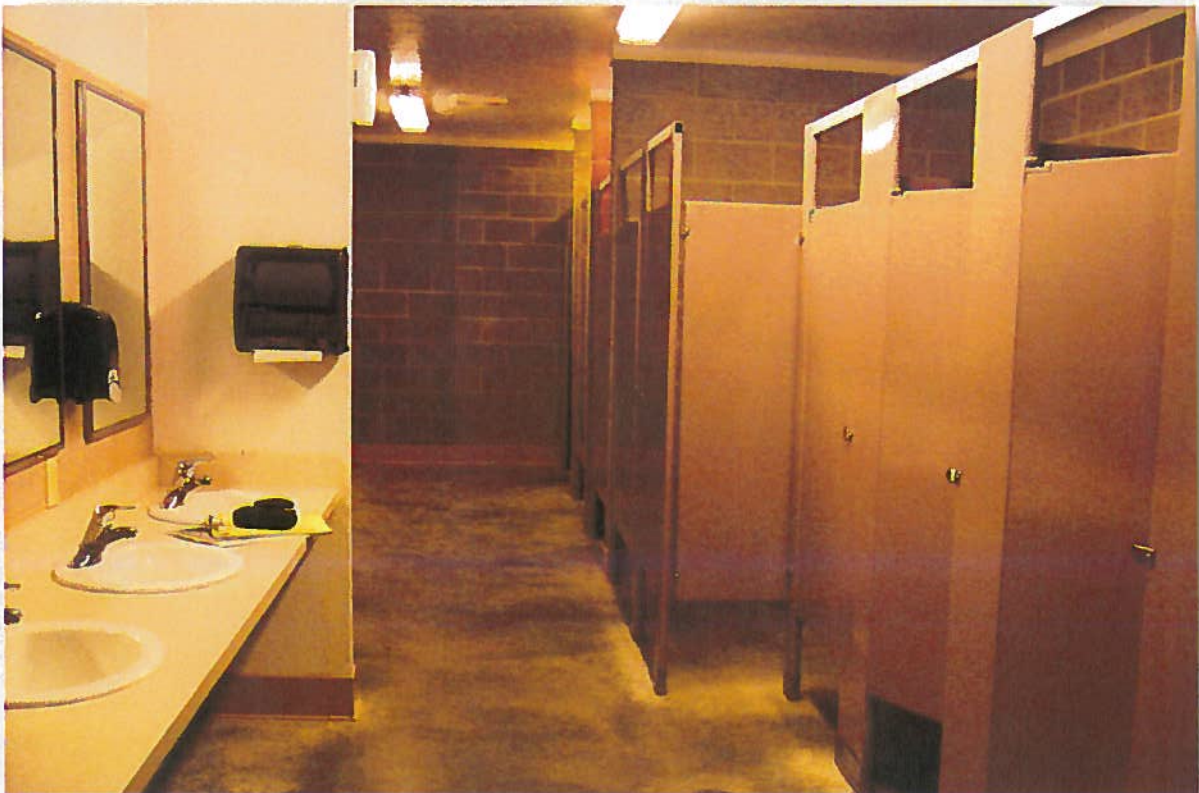
Theater and Camping Sites

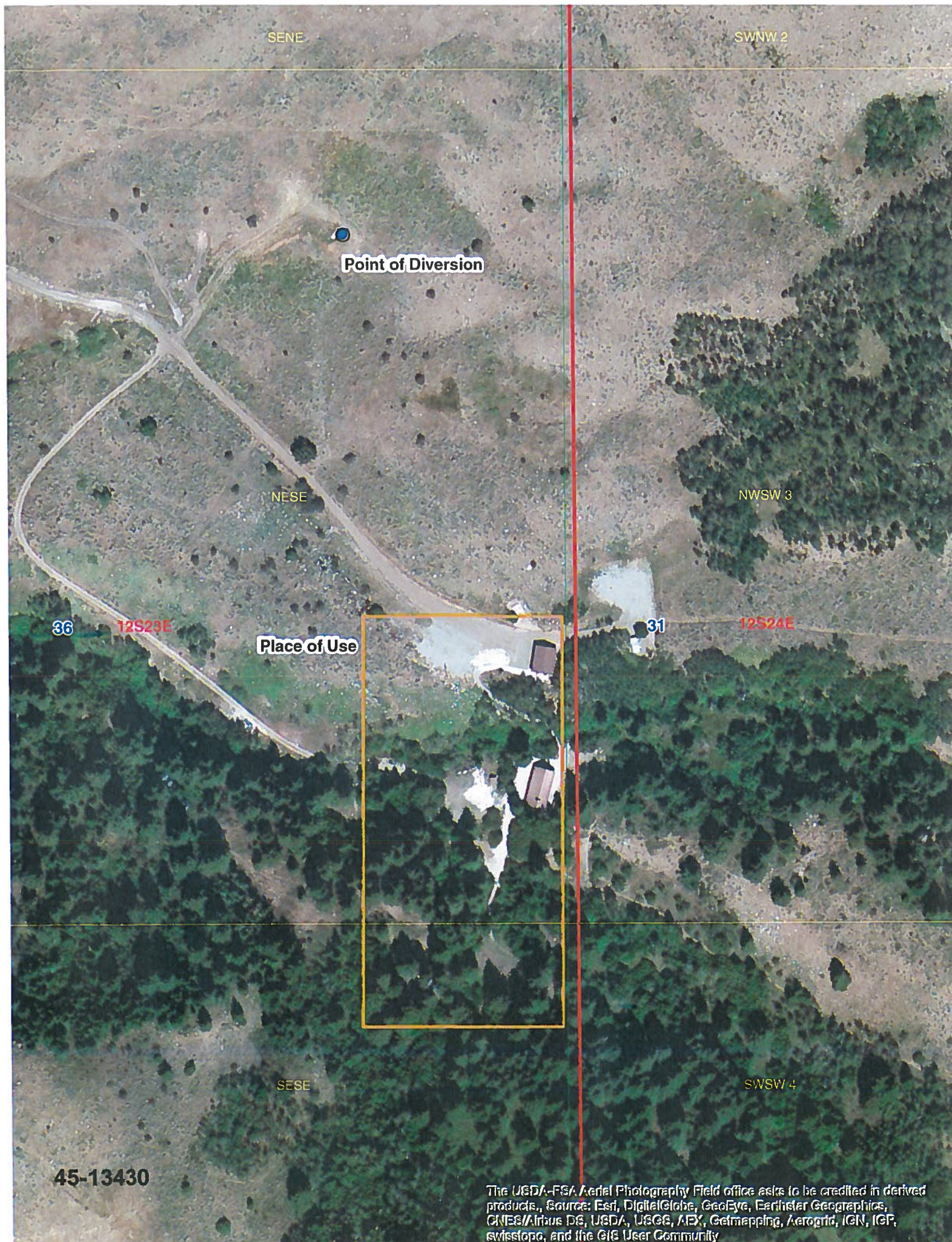


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Mens and Womens Bathrooms





45-13430

The USDA-FSA Aerial Photography Field office asks to be credited in derived products., Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



SWNE

SENE

SWNW

Well

NWSE

NESE

NWSW

36

12S23E

Rest Rooms

31

12S24E

Lodge, Kitchen

Camp Sites

Theater

SWSE

SESE

SWSW

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SENE

SWNW 2

NESE

NWSW 3

36

12S23E

31

12S24E

SESE

SWSW 4

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