

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

**A. GENERAL INFORMATION**

Permit No: 75-14725

Exam Date: 7/14/2017

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? ☒ Yes ☐ No
- a. Irrigation of 5 acres or less
- b. Storage of up to 14.6 AF for stockwater purposes only
- c. Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
- d. Other < >

2. Current Owner: Name: US DEPT OF AGRICULTURE FOREST SERVICE

Owner-of-Record Correct? ☐ Yes ☒ No not to current standard signed

The forest service doesn't operate the business but it owns the land. Charles Mualem owns the buildings and business but has put them up for sale. No one is operating it at this time.

Address-of-Record Correct? ☐ Yes ☒ No

If No: US DEPT OF AGRICULTURE FOREST SERVICE

1206 S CHALLIS ST

SALMON ID 83467

3. Beneficial Use Fees have been paid: ☒ Yes ☐ No Receipt No: C103767**4. SOURCE****TRIBUTARY**

Ground water

N/A

Method of Determination: A map identifying the POD, a photo and the lat-long coordinates for the well were submitted with the proof statement.

Change in Source: ☐ Yes ☒ No**B. OVERLAP REVIEW**1. Other water rights with the same place of use: Overlap? ☒ Yes ☐ No

| Water Right No. | Source        | Purpose of Use | Basis       |
|-----------------|---------------|----------------|-------------|
| 75-13945        | Boulder Creek | Commercial     | SRBA Decree |
| 75-2122         | Boulder Creek | Domestic       | SRBA Decree |

Comments: The POU is located within un-surveyed Salmon-Challis National Forest property

2. Other water rights with the same point of diversion: Overlap? ☐ Yes ☒ No

| Water Right No. | Source | Purpose of Use | Basis |
|-----------------|--------|----------------|-------|
|                 |        |                |       |
|                 |        |                |       |

Comments: The well-POD is located within un-surveyed Salmon-Challis National Forest property. It is labeled with tag D0057578

**C. DIVERSION AND DELIVERY SYSTEM****1. LOCATION OF POINT(S) OF DIVERSION:**

| Source       | Govt. Lot | ¼ | ¼  | ¼  | Sec. | TWP | RGE |      | County |
|--------------|-----------|---|----|----|------|-----|-----|------|--------|
| Ground water |           |   | SE | SW | 30   | 24N | 19E | B.M. | LEMHI  |
|              |           |   |    |    |      |     |     |      |        |

Method of Determination: The legal description in the permit is validated by PLS data and aerial photography. The township, range and section numbers of the legal description are consistent between the maps and the location grids. The quarter-quarters are for IDWR purposes only.

Change in POD? ☐ Yes ☒ NoAmendment Required? ☐ Yes ☒ No

2. **LOCATION OF PLACE(S) OF USE:** Use: Commercial and 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 |        |
| 24N | 19E | 30  |    |    |    |    |    |    |    |    |    |    | C,D | C,D |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |        |

Method of Determination: The property is within un-surveyed National Forest land. The township, range and section numbers of the legal description are consistent between the maps and the location grids. However, the quarter-quarters are for IDWR purposes only. The site is visible in aerial photography and fronts the Salmon River between River Mile 118 and 119.

Change in POU? ☐ Yes ☒ No      Amendment Required? ☐ Yes ☒ No

3.

☒ Delivery System Diagram Attached (required). See design drawings provided by IDEQ. As-built drawings were not available but are assumed to be similar to the design drawings in distances and major components.

☒ Aerial Photo Attached (required for irrigation of 10+ acres).

☒ Photo of Diversion and System Attached

| 4. Well or Diversion Identification No.* | Motor Make | Hp | Motor Serial No. | Pump Make | Pump Serial No. or Discharge Size |
|------------------------------------------|------------|----|------------------|-----------|-----------------------------------|
| D0057578                                 |            |    |                  |           |                                   |

\*Code to correspond with No. on map and aerial photo

D. **FLOW MEASUREMENTS**

| 1. Measurement Equipment | Type | Make | Model No. | Serial No. | Size | Calib. Date |
|--------------------------|------|------|-----------|------------|------|-------------|
|                          |      |      |           |            |      |             |

2. Measurements: In-office field exam. No measurements taken

E. **FLOW CALCULATIONS**

☒ Additional Computation Sheet Attached

|                               | Domestic                                                                   | Commercial                                                                 |
|-------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|
| <b>Policy standard</b>        |                                                                            |                                                                            |
| <b>Permit allowed</b>         | 0.04 cfs; limited to 0.04 cfs for the total domestic and commercial system | 0.04 cfs; limited to 0.04 cfs for the total domestic and commercial system |
| <b>License recommendation</b> | Same as permitted                                                          | Same as permitted                                                          |

F. **VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\text{NA}}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \underline{\text{NA}}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\text{NA}}$$

Volume Calculations for Other Uses: Please refer to the uses listed in system design which was submitted to IDEQ by Preston F. Rufe PE (Alpine Edge Professionals, LLC). IDEQ approved design for 1700 gpd (~1.9 afa) in 2010. As-builts were not available

**License recommendation – the 1300 gpd volume limitation of the permit.**

**G. PURPOSE OF USE**

Irrigation ☐ Yes ☒ No # Stock N/A Domestic # of Homes 4  
 Other: <Commercial>  
 Change in Purpose of Use? ☐ Yes ☒ No  
 Method of Determination: Information in the water right file is consistent with aerial photography of the property.  
 If Yes: From Use \_\_\_\_\_ To Use \_\_\_\_\_ Amount \_\_\_\_\_ CFS \_\_\_\_\_ AFA \_\_\_\_\_

**H. NARRATIVE/REMARKS/COMMENTS**

Permit 75-14725 authorized diversion of 0.04 cfs for domestic use and diversion of 0.04 cfs for commercial use but limited the uses to 0.04 cfs and 13,000 gpd total. Based on the small permitted diversion rate, this permit qualifies for an in-office field exam.

I found that the Shoup café/store and guest cabins were closed near the end of 2015 and are for sale. See Jan 2016 MLS listing #2106874 and photos. However, the link below is to a video taken during September 2014.  
[https://www.youtube.com/watch?v=t1tu2ZeWf\\_s](https://www.youtube.com/watch?v=t1tu2ZeWf_s) The video confirms domestic and commercial use within the development period of the permit.

IDEQ had approved the well design and piping system design for this public water supply system PWS# 7300118. Copies of those approvals are attached. However, because the previous operator of this business had been hauling in potable water, it was not clear that the well water had been delivered to any of buildings. Neither IDEQ nor FS nor the design engineer have as-built information about this system. I asked for additional information to confirm the connection.

The legal description of the POU was used to locate the property. Available Lemhi County taxlot information shows that the owner of the property which contains both the POD and POU is the Salmon-Challis National Forest.

I created the POU shape based on aerial photography and the water system design documents which were submitted to IDEQ by Alpine Edge Professionals. According to IDWR's PLSS layer, the POUs are located in SWSW and SESW, but his area is un-surveyed. There are no established QQs.

The well/POD was drilled in 2010 which was before the permit was issued. The POD shape is based on the permit's POD shape, spatial data point and lat-long coordinates provided by the applicant with the statement of proof.

The POD and POU are within the Wild & Scenic Watershed of the Salmon River (excluding the Middle Fork). The right will be conditioned to notify the right holder of the need for future watermaster control. But because the right is owned by the US Dept of Agriculture, it will be an unsubordinated diversion.

**POU/POD overlap**

I found that SRBA decrees 75-2122 for domestic use and 75-13945 for commercial use overlap the POU for this permit. Those rights are from surface water and were ruled a non-potable water source by DEQ in 2010. Irrigation of the landscape can be provided by the existing domestic right but the internal uses should now be from potable sources only.

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

**I. RECOMMENDATIONS****1. Recommended Amounts**

| <u>BENEFICIAL USE</u> | <u>PERIOD OF USE</u> | <u>DIVERSION RATE</u> | <u>ANNUAL VOLUME</u> |
|-----------------------|----------------------|-----------------------|----------------------|
| Domestic              | 01/01-12/31          | 0.04 cfs              | 14.6 af              |
| Commercial            | 01/01-12/31          | 0.04 cfs              | 14.6 af              |
| <u>Totals</u>         |                      | 0.04 cfs              | 14.6 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**

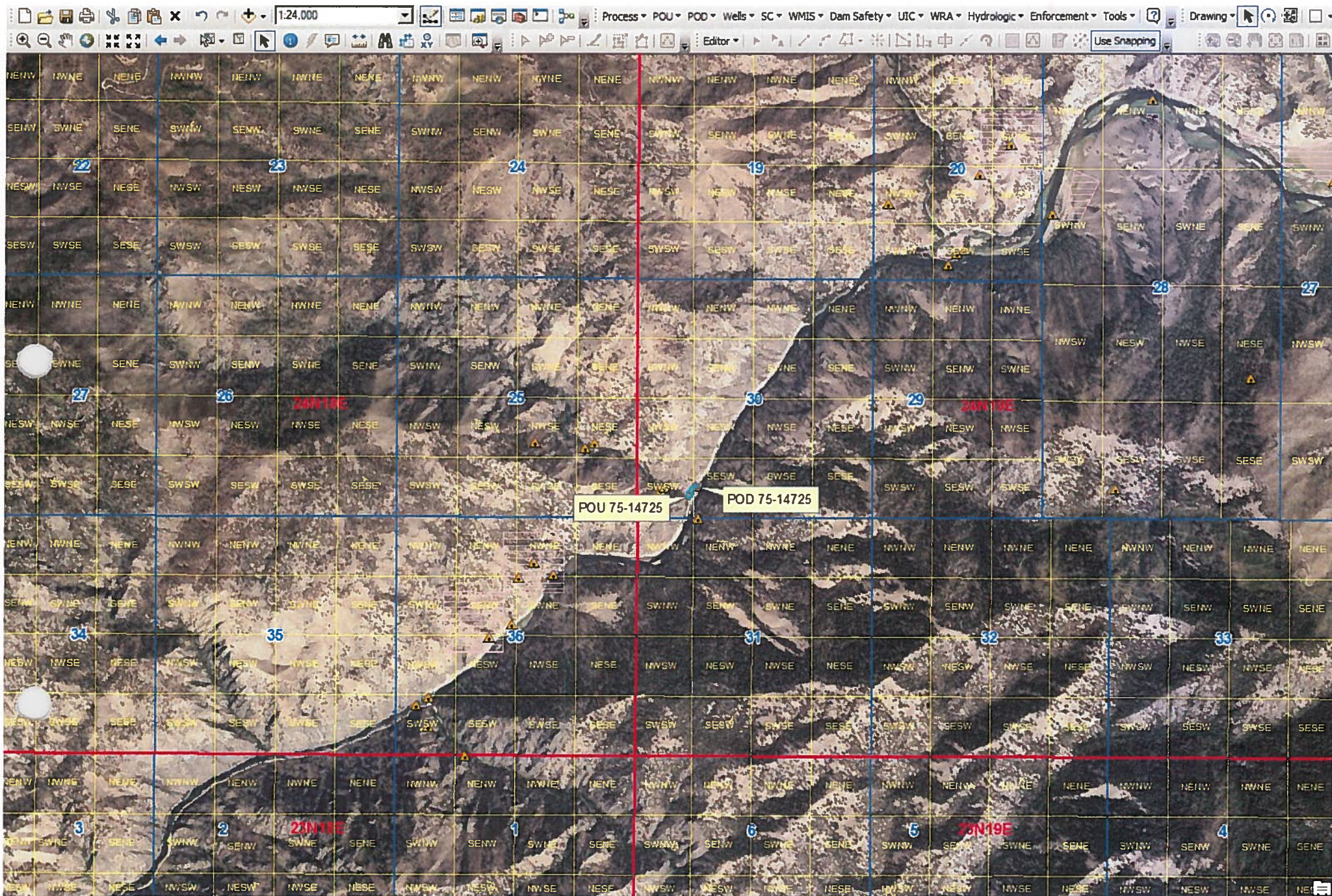
Field Examiner's Name Michele Edl  Date September 8, 2017  
 Reviewer \_\_\_\_\_ Date \_\_\_\_\_

**Workflow**

Exam Date Entered ☒  
 POU/POD shapes ☒  
 Combined Rights Entry ☐  
 Wild & Scenic Entry ☒  
 Draft License and Maps ☒

**Supporting Documents**

Historical Imagery ☐ Well Log ☒  
 Photographs ☒ Diagrams ☐  
 LandSat ☐ Theoretical ☐  
**Other:** Design documents & approvals from IDEQ  
MLS listing and photos, youtube video link



## MEMORANDUM

**Date:** September 7, 2017  
**To:** Water Right File 75-14725  
**From:** Michele Edl  
**Re:** phone conversation

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I spoke to Bill MacFarlane (hydrologist, Forest Service) over the phone today about the well and pipe connections that were made for the water use developed under this permit, 75-14725. He stated that the engineer who designed the project has not provided as-built drawings and that they may not be available.

I explained that I was comfortable that the well had been designed and constructed to industry standards. However, I needed some confirmation that the well was actually connected to the buildings. He mentioned that he was in the area at the time that the piping was being laid. Based on that statement and 2<sup>nd</sup> hand information given to MacFarlane by the property owner, I am submitting the in-house report and recommending the uses be licensed.

## Edl, Michele

---

**From:** Macfarlane, William A -FS <wamacfarlane@fs.fed.us>  
**Sent:** Wednesday, September 06, 2017 1:34 PM  
**To:** Edl, Michele  
**Subject:** RE: Shoup store and cabins water system 75-14725

Michele,

I did finally hear back from Preston Rufe (the engineer who did the design) on August 30. He was not able to locate any as-built documentation in his project files. He was going to contact the Shoup Store owner (Chuck Mualem) and get back to me. I haven't heard back from him yet.

-Bill



**Bill MacFarlane**  
**Hydrologist**

**Forest Service**  
**Salmon-Challis National Forest**

**p: 208-756-5108**  
[wamacfarlane@fs.fed.us](mailto:wamacfarlane@fs.fed.us)

1206 S Challis St  
Salmon, ID 83467  
[www.fs.fed.us](http://www.fs.fed.us)



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---

**From:** Edl, Michele [mailto:Michele.Edl@idwr.idaho.gov]  
**Sent:** Wednesday, September 06, 2017 1:06 PM  
**To:** Macfarlane, William A -FS <wamacfarlane@fs.fed.us>  
**Subject:** RE: Shoup store and cabins water system 75-14725

Any news?

---

**From:** Macfarlane, William A -FS [mailto:wamacfarlane@fs.fed.us]  
**Sent:** Friday, July 28, 2017 1:34 PM  
**To:** Edl, Michele <Michele.Edl@idwr.idaho.gov>  
**Cc:** Thomas, Randall G -FS <randallgthomas@fs.fed.us>; Spencer, Steven M -FS <sspencer@fs.fed.us>  
**Subject:** RE: Shoup store and cabins water system 75-14725

Michele,

I was able to contact Preston Rufe (the engineer that was hired by the owner of the Shoup Store to do the design for the Shoup Store well and submit final approval to IDEQ). He indicated that he would look through his files to see what he has in terms of an as-built drawing and get back to me. I haven't heard back from him yet.

I will be out of the office all week next week, back on Tuesday Aug 8. In the meantime, I will send a reminder to Preston and hope that we can get the information that you requested soon! Thanks for your patience.

## Edl, Michele

---

**From:** Macfarlane, William A -FS <wamacfarlane@fs.fed.us>  
**Sent:** Friday, July 21, 2017 11:19 AM  
**To:** Edl, Michele  
**Subject:** RE: Shoup store and cabins water system 75-14725

Michele,

I just wanted to give you an update as to where we are with tracking down the information you requested for the Shoup Store Well water right.

It appears that the documentation that the system meets state requirements resides with the Professional Engineer that the owner of the Shoup Store hired to do the design work (Preston Rufe). Preston has since moved from the Salmon area, and I am in the process of tracking him down to see if I can get this information.

IDEQ (Carlin Feisthamel) has indicated that the well has been inspected and meets state requirements, but IDEQ relies on the design engineer to certify that the water distribution system has been installed according to design and state requirements. I am working on tracking down this information.

Thanks.

-Bill



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**From:** Macfarlane, William A -FS  
**Sent:** Thursday, July 13, 2017 1:08 PM  
**To:** 'Edl, Michele' <Michele.Edl@idwr.idaho.gov>  
**Subject:** RE: Shoup store and cabins water system 75-14725

Michele,

I have been working on tracking down this information.

Our files include the following

- The 5/27/2010 letter from Carlin Feisthamel of IDEQ stating that the plans meet state standards, and that DEQ will give final project approval after it is established (it sounds like you may also have this letter).
- Project design by Preston Rufe (Professional Engineer) and design drawings

- Letter from District Ranger Jay Winfield with Resource Protection Plan authorizing the work (July 2012)

The work to install new water lines to the well was completed in November 2012. In my discussions with Chuck Mualem (owner of Shoup Store), he indicated that DEQ has inspected the water system, and that it meets the requirements.

I have contacted Carlin Feisthamel (IDEQ) requesting documentation that the final system meets state requirements. It appears that he is out of the office until Monday, July 17. I am hoping to hear back from him early next week, and I will get back to you as soon as possible. Thank you.

-Bill



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**From:** Edl, Michele [<mailto:Michele.Edl@idwr.idaho.gov>]  
**Sent:** Wednesday, July 12, 2017 9:42 AM  
**To:** Macfarlane, William A -FS <[wamacfarlane@fs.fed.us](mailto:wamacfarlane@fs.fed.us)>  
**Subject:** RE: Shoup store and cabins water system 75-14725

This is great news!

---

**From:** Macfarlane, William A -FS [<mailto:wamacfarlane@fs.fed.us>]  
**Sent:** Tuesday, July 11, 2017 12:28 PM  
**To:** Edl, Michele <[Michele.Edl@idwr.idaho.gov](mailto:Michele.Edl@idwr.idaho.gov)>  
**Subject:** RE: Shoup store and cabins water system 75-14725

Michele,

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**From:** Edl, Michele [<mailto:Michele.Edl@idwr.idaho.gov>]  
**Sent:** Monday, July 10, 2017 9:55 AM  
**To:** Macfarlane, William A -FS <[wamacfarlane@fs.fed.us](mailto:wamacfarlane@fs.fed.us)>  
**Subject:** Shoup store and cabins water system 75-14725

Bill MacFarlane,

I am reviewing a water right permit issued to the USDA forest Service on behalf of the Shoup Store complex. The permit is 75-14725. I understand that DEQ required that a well be drilled to supply potable water to the store and guest cabins and that water supply is also the purpose of this water right. My review is the final step in the water rights process and I hope to issue a license for the uses.

I need to confirm that the water distribution system was built to IDEQ design requirements. Otherwise a water right license for the use could be in jeopardy.

At your earliest convenience, please connect with me in reference to this water right permit. I have IDWR's Well Driller's Report for the well but it doesn't provide design details. I also have IDEQ approval of the design but no confirmation that the system was constructed to those requirements. I would be interested in seeing the as-built plans and making them a part of the water right file as documentation that the forest service complied with DEQ requirements. And I would be happy to submit a more formal request for the information if you need it.

Thank you in advance.

Michele Edl  
208-287-4946

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Michele Edl

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 Roger Rife  
 (C) (208) 768-7017  
[rogerrife5@gmail.com](mailto:rogerrife5@gmail.com)

 Robie Real Estate  
[robie@centurytel.net](mailto:robie@centurytel.net)

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## Listing Details

**List Price:** \$329,000

**Street #:** 1829

**Compass Point:**
**Street/Road Name:** Salmon River Road

**Apx Total SqFt:** 0

**Current Use:** Bar, Restaurant, Retail, Other-See Remarks

**County:** Lemhi

**Listing Office:** Robie Real Estate (#40109)

**Listing Agent:** Roger Rife (#9)

**City:** SHOUP

**Taxes:** 869.38

**Lot Size (Apx SqFt):**

**Public Info:** During the gold rush days prospectors discovered major gold deposits in the area and by 1882 the town was founded and a post office was established. The town was named for George L. Shoup the first governor of Idaho. Operations of the area mines were shut down during World War II. Over the years the area became one of the most popular outdoor recreation areas in the West. The area is famous for hunting, fishing, hiking, trail riding and white water rafting. Shoup's buildings have been consolidated under one ownership which are now offered for sale. Although off the power grid, the sale includes a Pelton water wheel electrical system that serves all the buildings. There is phone service and the buildings have propane heat. There are 13 historic structures on the property. The property offered consists of 1.5 acres located on lands of the USFS. Buyer must apply for a special use permit from the USFS to continue business operation. The buildings include two rental cabins, the former school house which will accommodate

large groups, the main store that has area for a cafe, sporting goods, and general merchandise. No ownership of public land is conveyed. Instructions for applying for the permit will be sent upon request.

All information is deemed reliable, but is not guaranteed. Consult with your real estate professional to verify the provided information.

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# SHOUP

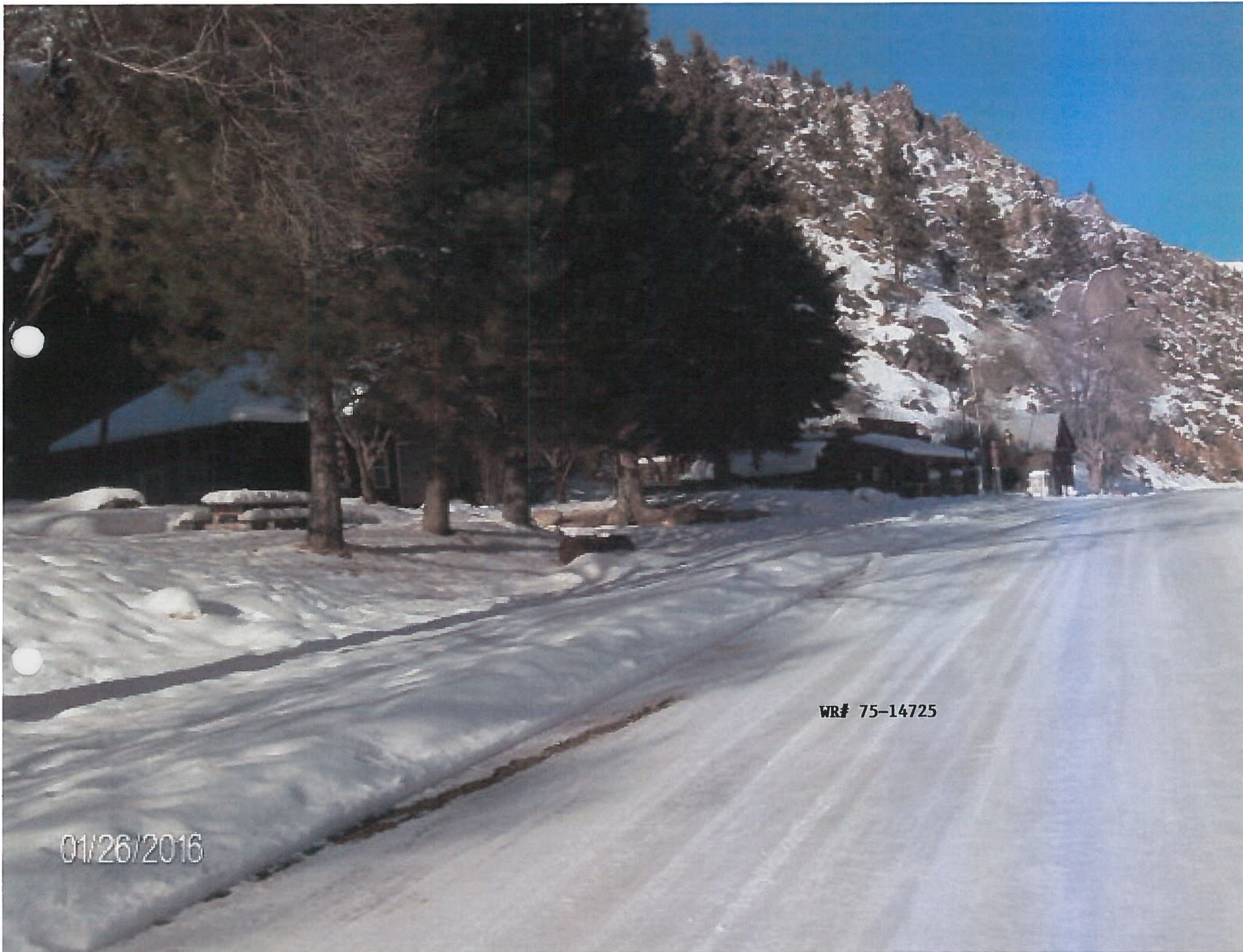
NAMED AFTER COL. GEORGE H. SHOUP 1836 TO 1904. A SOLDIER,  
PIONEER, GOVERNOR OF THE TERRITORY AND LATER THE STATE,  
AND UNITED STATES SENATOR.

ORE WAS FIRST DISCOVERED IN THIS AREA ON APRIL 24, 1882  
BY BEN HARRISON, 14 OTHER CLAIMS WERE LOCATED THE SAME  
YEAR. IN 1930 SHOUP BOOMED AGAIN WHEN NEW CLAIMS WERE  
FOUND.

SALMON *National Forest*

WR #75-14725

01/26/2016



WR# 75-14725

01/26/2016



WR# 75-14725

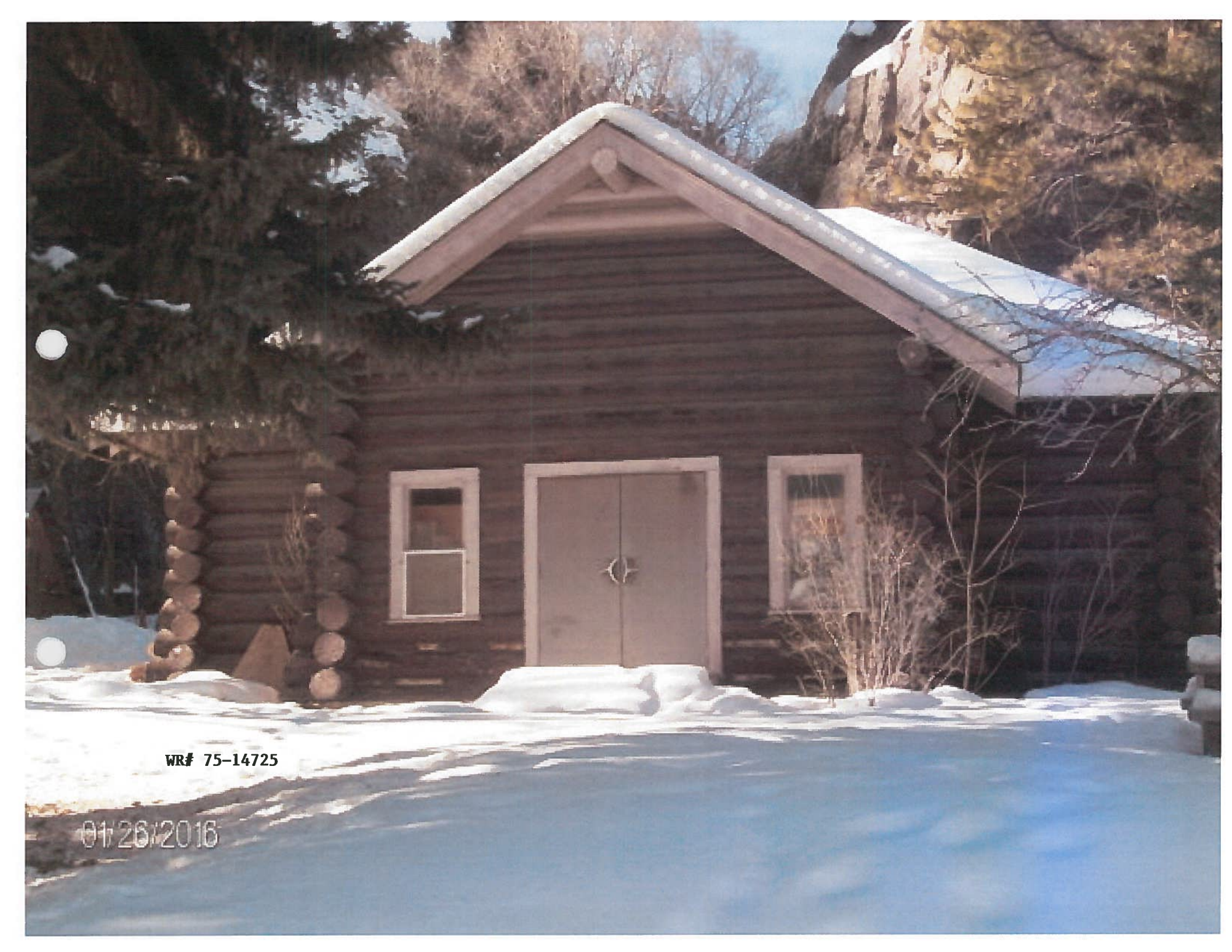
01/26/2016



WR# 75-14725

02/02/2016



A photograph of a log cabin in winter. The cabin is constructed of dark brown logs and has a steep, snow-covered gable roof. The front facade features a central double door with a metal handle and two small, square windows on either side. The cabin is surrounded by snow-covered ground and evergreen trees. A rocky cliff face is visible in the background to the right. The image has a slightly grainy texture and a warm, golden light, suggesting late afternoon or early morning. There are two white circular marks on the left side of the image, possibly from a film strip or a scanning artifact.

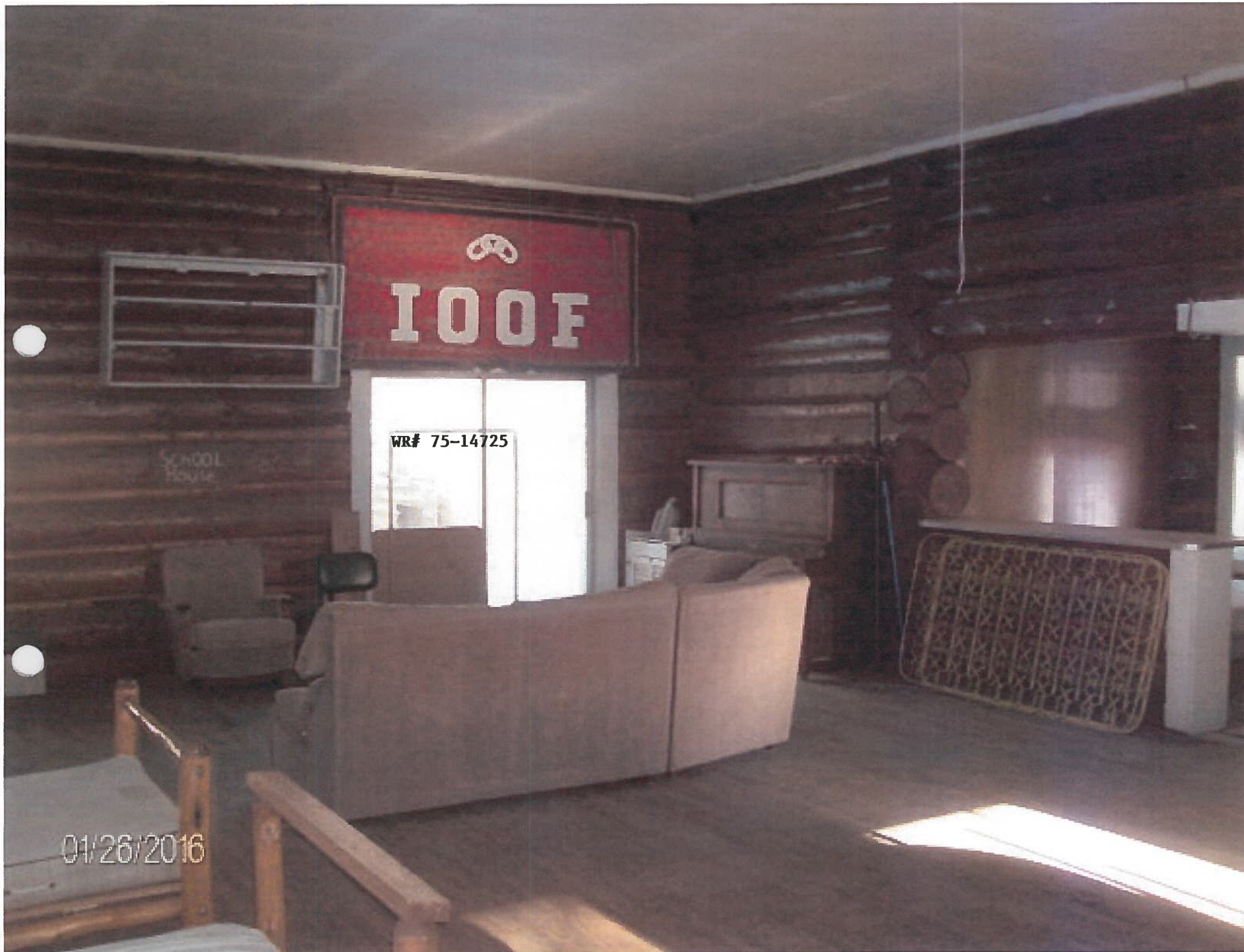
WR# 75-14725

01/26/2016

WR# 75-14725

01/26/2016





WR# 75-14725

01/26/2016



WR# 75-14725

01/26/2016

A photograph of a rustic interior, likely a cabin or lodge. The room features dark wood paneling on the walls and ceiling. Large windows on the right side offer a view of a snowy outdoor scene. In the center, a person stands near a window. To the left, a wooden dining table is set with chairs. In the foreground, a light-colored sofa is visible. The text "WR# 75-14725" is overlaid on the image.

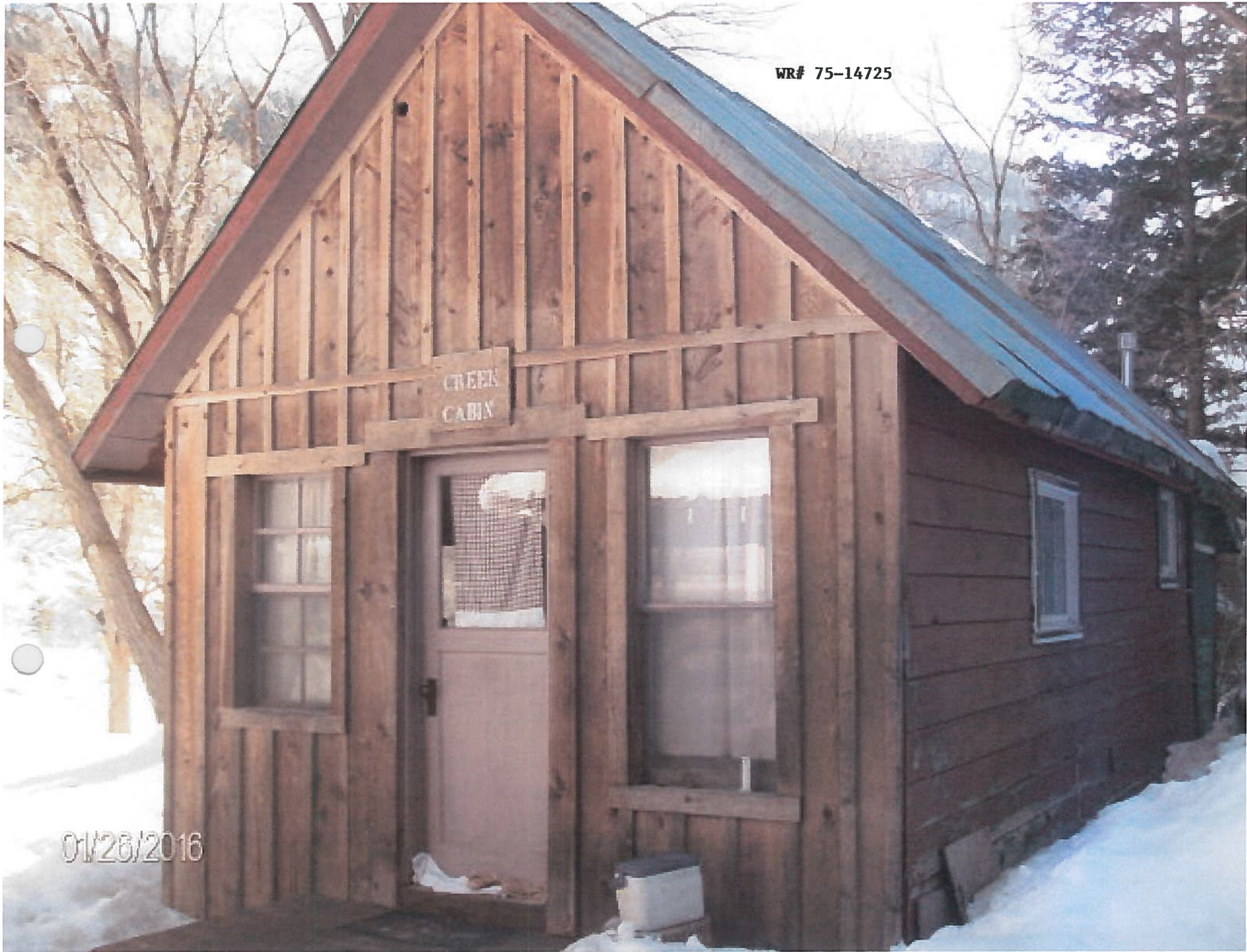
WR# 75-14725

01/26/2016

WR# 75-14725

CREEK  
CABIN

01/28/2016





WR#75-14725

01/26/2016

**Edl, Michele**

---

**To:** WR file 75-14725  
**Subject:** FW: shoup store well and distribution system  
**Attachments:** 10-06-30 Shoup Store Water Distribution System Design, Approval Letter.pdf; 10-06-30 Shoup Store Water Distribution System Design, PWS 7300118 - Pla....pdf; 10-05-30 Shoup Store New Well - Letter of Approval, 031210.pdf; 10-05-30 Shoup Store New Well - Well Design, 030110, PWS 7300118.pdf

The following pages are excerpts from the documents provided to me by IDEQ in response to a request for any information about the well and water system. Contact IDEQ to see the entire documents.

The approved engineering design calculations and drawings are referenced in the field exam report for this water use.

Michele Edl

---

**From:** Carlin.Feisthamel@deq.idaho.gov [mailto:Carlin.Feisthamel@deq.idaho.gov]  
**Sent:** Thursday, July 06, 2017 4:03 PM  
**To:** Edl, Michele <Michele.Edl@idwr.idaho.gov>  
**Subject:** shoup store well and distribution system



STATE OF IDAHO  
DEPARTMENT OF  
ENVIRONMENTAL QUALITY

900 North Skyline Drive, Suite B • Idaho Falls, Idaho 83402 • (208) 528-2650

C.L. "Butch" Otter, Governor  
Toni Hardesty, Director

May 27, 2010

Charles Mualem  
76 Aldous Dr.  
Salmon, ID 83467

**Re: Shoup Store Water Distribution System Design, Drinking Water, Lemhi County,  
DEQ# 10-06-30**

Dear Mr. Mualem:

We have reviewed the plans and specifications for the **Shoup Store Water Distribution System Design**. The plans appear to meet state standards and are hereby approved with the following condition:

- Pursuant to the Idaho Rules for Public Drinking Water Systems (IDAPA 58.01.08.511.04 an accessible check valve (single check) must be installed on the discharge line from the well prior to a service connection.

This approval is for system design only. We will give final project approval after it is established that the system is operating properly. Please keep this office informed of the scheduling of all construction phases so that we can make spot inspections as necessary.

Within 30 days after construction, a professional engineer registered in the State of Idaho must provide this office with as-built plans or a letter of certification stating that the project was installed with substantial accordance to the approved plans.

A copy of the approved plans and specifications will be kept on file at this office. Please reference **DEQ No. 10-06-30** when submitting any future correspondence related to this project. If you have any questions regarding this letter or if we can be of further assistance, please call me at (208) 528-2650.

Sincerely,

A handwritten signature in black ink, appearing to read "Carlin Feisthamel".

Carlin Feisthamel, P.E.  
Water Quality Engineer  
Idaho Falls Regional Office

c: Greg Eager, P.E., Regional Engineering Manager, DEQ-Idaho Falls  
Kellye Eager, Eastern Idaho Public Health Department  
Preston Rufe, P.E., Alpine Edge Professionals, LLC

May 10, 2010

MAY 11 2010

Carlin Feisthamel  
Idaho Department of Environmental Quality  
900 North Skyline Drive, Suite B  
Idaho Falls, ID 83402

**Re: Water Distribution System Design for Shoup Store, Lemhi County, PWS# 7300118**

Dear Mr. Feisthamel:

On behalf of the Owner, Mr. Charles Mualem, I respectfully submit the enclosed water distribution system design for the subject property. Given the physical constraints of the site, the distribution mains and laterals were located where the topography would allow. Only basic connections at each building and exterior hydrants are included. Generally, the system design concept is commensurate with the scale and simplicity of this system's requirements.

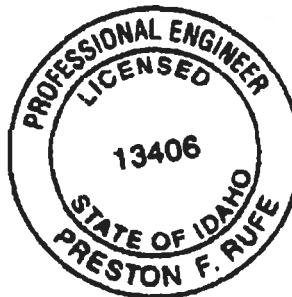
As the well design package was previously submitted and approved, the water system design package contained herein specifically addresses only those items not addressed by the previous submittal. For example, an overview map showing the project location is not enclosed in this submittal.

I believe the enclosed design is appropriate for the site and conforms to State standards. If you have any questions or concerns regarding this submittal, please contact me directly at 208-940-1952 or via email at [rufepf@gmail.com](mailto:rufepf@gmail.com).

Respectfully,



Preston F. Rufe, P.E.  
Alpine Edge Professionals, LLC



Enclosure

CC:  
Mr. Charles Mualem

### **3. System Design Engineer Report**

**Project:** Shoup Store and Café

**Location:** 1829 Salmon River Road, Shoup, ID

**Owner:** Charles Mualem

**Engineer:** Preston Rufe, P.E.

**Company:** Alpine Edge Professionals, LLC

#### **Project Description**

The Shoup Store and Café (Company) currently uses a surface water source (Boulder Creek) to supply non-potable water to its facilities. Potable water is currently being imported for use in the restaurant. Citing concerns about using a surface water source for commercial use, Idaho Department of Environmental Quality required the Company to install a well that conforms to the standards for public water supplies.

The Company maintains three guest cabins and a public restaurant/café. Each cabin has a water closet, lavatory sink, and shower/bath. The restaurant/café, in addition to the kitchen, also includes a public restroom for customers and a separate living quarters for the operator/management. The living quarters include a water closet, lavatory sink, and bath.

The scope of this project includes construction of a well and water distribution system that conforms to IDAPA 58.01.08, Idaho Rules for Public Drinking Water Systems. Further details regarding this system are provided in the sections below.

#### **Statement of Work**

A new well and water distribution system will be constructed at the Shoup Store and Café, according to the plans and specifications contained herein.

Previously, a plan and design for the well construction was submitted and approved by DEQ. This submittal includes the water distribution system details.

#### **Project Specifications**

All project specifications shall be in accordance with Idaho Standards for Public Works Construction.

## System Design Evaluation

The water system is sized based on the following demand:

- 3 guest cabins with water closet, lavatory sink, and shower/tub
- 1 public restaurant with restroom
- 1 private domicile with water closet, lavatory

### System Sizing

Several methods to size a system this small were investigated. The first method applied use rates to determine a maximum and average daily use rate according to Table 1 below.

**Table 1 Maximum and Average Daily Flow**

| MAXIMUM      |                                    |                              |                   |
|--------------|------------------------------------|------------------------------|-------------------|
|              | Max Capacity*<br>(person or meals) | Use Rate<br>(gal/day/person) | Flow<br>(gal/day) |
| Cabin 1      | 5                                  | 50                           | 250               |
| Cabin 2      | 15                                 | 50                           | 750               |
| Cabin 3      | 5                                  | 50                           | 250               |
| Private Res. | 2                                  | 50                           | 100               |
| Restaurant   | 50                                 | 7                            | 350               |
|              |                                    | <i>Total</i>                 | <b>1700</b> GPD   |
| AVERAGE      |                                    |                              |                   |
|              | Avg Capacity*<br>(person or meals) | Use Rate<br>(gal/day/person) | Flow<br>(gal/day) |
| Cabin 1      | 4                                  | 50                           | 200               |
| Cabin 2      | 10                                 | 50                           | 500               |
| Cabin 3      | 4                                  | 50                           | 200               |
| Private Res. | 2                                  | 50                           | 100               |
| Restaurant   | 25                                 | 7                            | 175               |
|              |                                    | <i>Total</i>                 | <b>1175</b> GPD   |

\* Capacity provided by facility operator based on historic use and facility capacity

The total dynamic head (TDH) the pump must provide is determined according to the following factors:

- Assumed maximum depth of well pump 160 ft
- Assumed maximum friction and minor losses of 20% of elevation head

TDH = 190 ft @ 10 GPM (minimum), at 40 psi.

Well pump shall be a constant pressure type Model CP75-07N4LT Commander Pro 75 or similar. The constant pressure pump shall include a minimum 12 gallon pneumatic bladder-type pressure tank.

Water distribution main shall be sized to accommodate up to 20 gpm flows and maintain velocities between 2 and 6 fps. Main shall be 2" maximum. Laterals shall be sized for 10 gpm flows and maintain velocities between 2 and 6 fps. Laterals shall be minimum of 0.75 and maximum of 1.25".

### ***Water Distribution System Design***

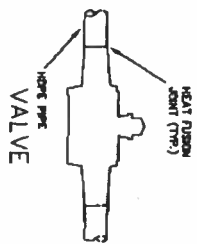
The numbering below corresponds to the numbered item in the Water Distribution System Checklist.

1. General Plan and Specification Review Checklist Included
2. The new system does not connect to an existing public water system.
3. Not required for this project.
4. There is no interconnection between potable water supplies on this project.
5. Specifications for pipe and joints included in ISPWC 2008.
6. All materials used on this project shall conform to AWWA and ANSI/NSF standards, as required by ISPWC 2008.
7. Water distribution lines are not installed in ground water.
8. Any previously used materials, particularly those inside existing buildings, shall be restored to practically original condition and shall conform with item #5, above.
9. ISPWC 2008 specifications shall apply to this project.
10. Minimum pressure throughout the system shall be maintained at 40 psi. System is not designed nor intended for fire use.
11. Minimum pressure of 40 psi shall be provided at each facility.
12. Static pressure shall be kept below 80 psi.
13. Static pressure shall be kept below 80 psi.
14. Fire service is not provided by this system.

FLUSH ONE VALVE  
OPERATING WRENCH FOR EACH  
VALVE. THE WRENCH SHALL BE  
WELDED TO THE VALVE BODY  
WITH A WELD BEING PROVIDED  
TO BE 1" LONGER THAN THE  
LONGEST VALVE BOX.

SOCKET TO FIT SQUARE W/T.  
SIZE MAY VARY.

VALVE OPERATING  
WRENCH

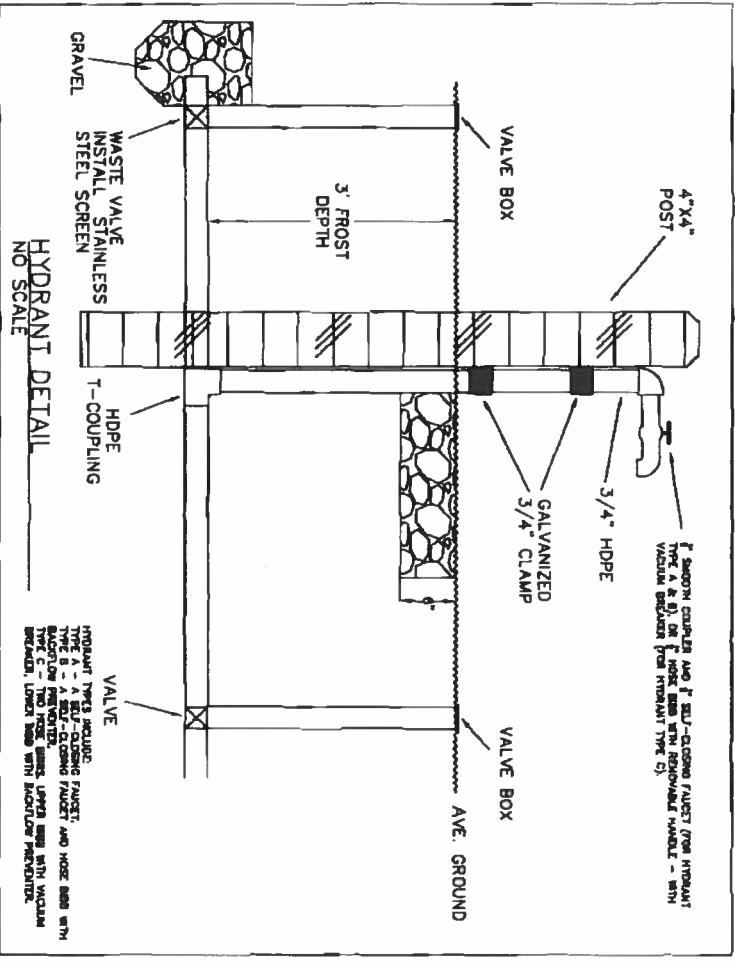


LOOKING THE LID

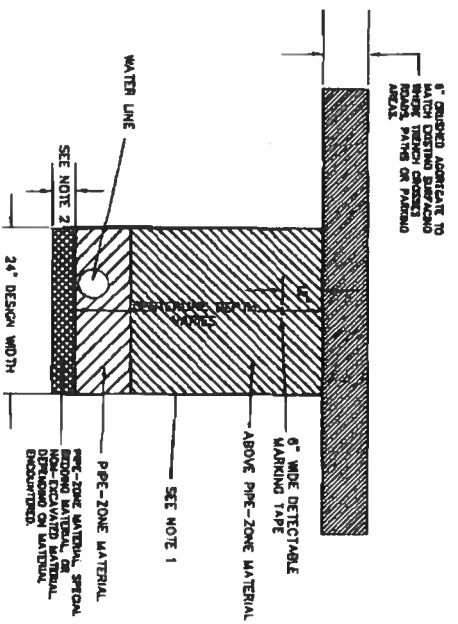
FOR INSTALLATION IN ASPHALT  
OR CONCRETE MATERIAL,  
THE VALVE SHALL BE SET  
IN A 24" DEEP TRENCH  
WITH THE VALVE BODY  
FOR GROUND INSTALLATION  
BEING 4" ABOVE  
GROUND LEVEL.

ADJUSTABLE  
VALVE BOX

POLY VALVES AND CURB BOXES  
NO SCALE

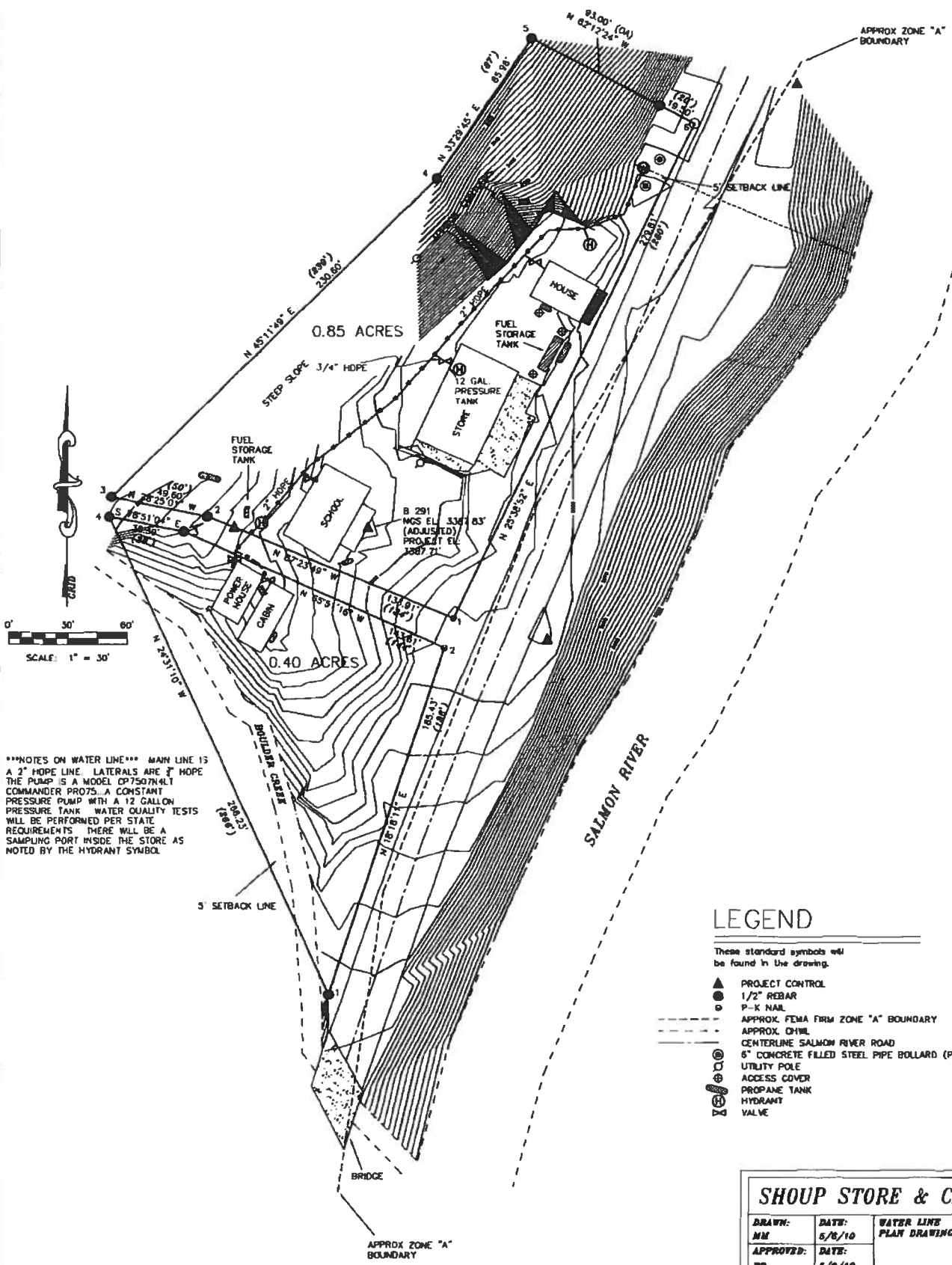


# TRENCH CROSS SECTION NO SCALE



- TRENCHING NOTES:
1. WALLS SHALL BE VERTICAL FOR TRENCHES LESS THAN 5'-0" DEEP AT CENTERLINE. FOR DEPTHS GREATER THAN 5'-0", THE WALLS SHALL BE LINED BACK TO MEET APPROPRIATE SLOPE REQUIREMENTS.
  2. IF BOTTOM OF TRENCH IS UNSTABILIZED BEDDING MATERIAL, A MINIMUM OF 6" OF PIPE-ZONE MATERIAL OR SPECIAL BEDDING MATERIAL SHALL BE USED DEPENDENT ON MATERIAL SPECIFICATIONS THIS NEED NOT BE EXHAUSTIVE.
  3. WRAP ALL BURIED NON-METALLIC PIPE WITH TRACER WIRE.

| SHOUP STORE & CAFE |        |                     |  |
|--------------------|--------|---------------------|--|
| DRAWN:             | DATE   | WATER SYSTEM        |  |
| MM                 | 6/6/10 | HYDRANT, VALVE, AND |  |
| APPROVED:          | DATE   | TRENCH DETAILS      |  |
| PR                 | 6/6/10 |                     |  |
| SCALE:             | SHEET  | PROJECT NO.         |  |
| NO SCALE           | 2 OF 2 | 10-002              |  |



\*\*\*NOTES ON WATER LINE\*\*\* MAIN LINE IS A 2" HDPE LINE. LATERALS ARE 1" HDPE. THE PUMP IS A MODEL CP7507N4LT COMMANDER PRO75. A CONSTANT PRESSURE PUMP WITH A 12 GALLON PRESSURE TANK. WATER QUALITY TESTS WILL BE PERFORMED PER STATE REQUIREMENTS. THERE WILL BE A SAMPLING PORT INSIDE THE STORE AS NOTED BY THE HYDRANT SYMBOL.

### LEGEND

- These standard symbols will be found in the drawing.
- ▲ PROJECT CONTROL
  - 1/2" REBAR
  - P-K NAIL
  - APPROX. FEMA FIRM ZONE "A" BOUNDARY
  - - - APPROX. CHWL
  - - - CENTERLINE SALMON RIVER ROAD
  - ⊕ 6" CONCRETE FILLED STEEL PIPE BOLLARD (PROPOSED)
  - ⊕ UTILITY POLE
  - ⊕ ACCESS COVER
  - ⊕ PROPANE TANK
  - ⊕ HYDRANT
  - ⊕ VALVE

### SHOUP STORE & CAFE

|                    |                 |                            |
|--------------------|-----------------|----------------------------|
| DRAWN:<br>MM       | DATE:<br>5/8/10 | WATER LINE<br>PLAN DRAWING |
| APPROVED:<br>PR    | DATE:<br>3/6/10 |                            |
| SCALE:<br>1" = 30' | SHEET<br>1 OF 2 | PROJECT NO.<br>10-002      |



STATE OF IDAHO  
DEPARTMENT OF  
ENVIRONMENTAL QUALITY

900 North Skyline Drive, Suite B • Idaho Falls, Idaho 83402 • (208) 528-2650

C.L. "Butch" Otter, Governor  
Toni Hardesty, Director

March 12, 2010

Charles Mualem  
76 Aldous Dr.  
Salmon, ID 83467

**Re: Shoup Store New Well, Drinking Water, Lemhi County, DEQ# 10-05-30**

Dear Mr. Mualem:

We have reviewed the plans and specifications for the **Shoup Store New Well** project. The plans appear to meet state standards and are hereby approved with the following conditions:

- ♦ If PVC casing is used in the well the following conditions must be met:
  - ♦ Centralizers must be used every forty feet.
  - ♦ Rather than slotted PVC in the water bearing zone, a PVC or stainless steel screen must be placed.
  - ♦ Sand should extend from total depth to plus 10% of slotted screen length. (required to stabilize the PVC)
  - ♦ The PVC must be hung while the sand & cement grout is placed.
  - ♦ Screw together PVC is suggested to allow proper placement of the sand and prevent bridging of the fill.
- ♦ A complete water quality analysis including coliform bacteria, general mineral, general physical, nitrate and nitrite must be completed and be in compliance with the public drinking water standards. DEQ must approve the water quality test results before the well is placed into domestic service (See Attachment for required tests)
- ♦ A copy of the well driller's permit from the Department of Water Resources and a completed well log must to be submitted to this office.
- ♦ This office must be notified upon completion of the well in order to conduct a well inspection.

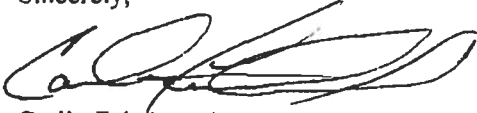
This approval is for system design only. We will give final project approval after it is established that the system is operating properly. Please keep this office informed of the scheduling of all construction phases so that we can make spot inspections as necessary.

Within 30 days after construction, a professional engineer registered in the State of Idaho must provide this office with as-built plans or a letter of certification stating that the project was installed with substantial accordance to the approved plans.

Mr. Mualem  
March 12, 2010  
Page 2 of 2

A copy of the approved plans and specifications will be kept on file at this office. Please reference **DEQ No. 10-05-30** when submitting any future correspondence related to this project. If you have any question s regarding this letter or if we can be of further assistance, please call me at (208) 528-2650.

Sincerely,

A handwritten signature in black ink, appearing to read 'Carlin Feisthamel', written over a horizontal line.

Carlin Feisthamel, P.E.  
Water Quality Engineer  
Idaho Falls Regional Office

c: Greg Eager, P.E., Regional Engineering Manager, DEQ-Idaho Falls  
Kellye Eager, Eastern Idaho Public Health Department  
Preston Rufe, P.E., Alpine Edge Professionals, LLC

February 25, 2010

**Carlin Feisthamel**  
Idaho Department of Environmental Quality  
900 North Skyline Drive, Suite B  
Idaho Falls, ID 83402

RECEIVED

MAR 01 2010

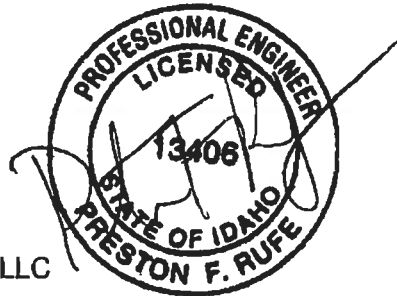
**Re: Well Design for Shoup Store New Well, Lemhi County, PWS# 7300118**

**Dear Mr. Feisthamel:**

On behalf of the Owner, Mr. Charles Mualem, I respectfully submit the enclosed well design for the subject property. As you will see, I designed a well for commercial use in accordance with IDAPA 58.01.08 to be located at 1829 Salmon River Road, Shoup, ID. As you know, the proposed well is located more than the required 100 ft from any septic system or drain field but will not meet the minimum set back distance of 50 ft from a road. Accordingly, this design package includes a request for variance for the set back distance required.

I believe the enclosed well design is appropriate for the anticipated hydrogeology at the site and conforms to the well design standards. If you have any questions or concerns regarding this submittal, please contact me directly at 208-940-1952 or via email at [rufepf@gmail.com](mailto:rufepf@gmail.com).

Respectfully,



**Preston F. Rufe, P.E.**  
**Alpine Edge Professionals, LLC**

## Enclosure

CC:  
Mr. Charles Mualem  
Harber Drilling, Inc.

## System Sizing

Several methods to size a system this small were investigated. The first method applied use rates to determine a maximum and average daily use rate according to Table 1 below.

**Table 1 Maximum and Average Daily Flow**  
MAXIMUM

|              | Max Capacity*<br>(person or meals) | Use Rate<br>(gal/day/person) | Flow<br>(gal/day) |
|--------------|------------------------------------|------------------------------|-------------------|
| Cabin 1      | 5                                  | 50                           | 250               |
| Cabin 2      | 15                                 | 50                           | 750               |
| Cabin 3      | 5                                  | 50                           | 250               |
| Private Res. | 2                                  | 50                           | 100               |
| Restaurant   | 50                                 | 7                            | 350               |
| Total        |                                    |                              | 1700 GPD          |

AVERAGE

|              | Avg Capacity*<br>(person or meals) | Use Rate<br>(gal/day/person) | Flow<br>(gal/day) |
|--------------|------------------------------------|------------------------------|-------------------|
| Cabin 1      | 4                                  | 50                           | 200               |
| Cabin 2      | 10                                 | 50                           | 500               |
| Cabin 3      | 4                                  | 50                           | 200               |
| Private Res. | 2                                  | 50                           | 100               |
| Restaurant   | 25                                 | 7                            | 175               |
| Total        |                                    |                              | 1175 GPD          |

\* Capacity provided by facility operator based on historic use and facility capacity

The total dynamic head (TDH) the pump must provide is determined according to the following factors:

- Assumed maximum depth of well pump 200 ft
- Assumed maximum friction and minor losses of 20% of elevation head

TDH = 240 ft @ 8 GPM (10-times average daily consumption rate in gpm) (RSWW 7.2.2.a.).

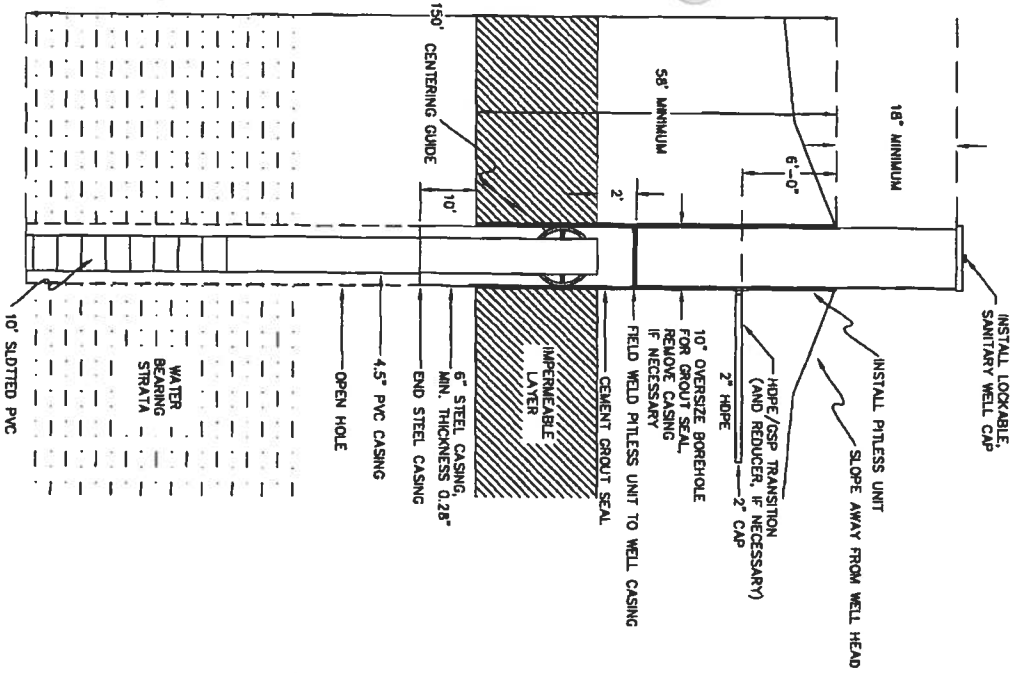
Upon completion of well construction and development, the well pump will be sized according to the actual well yield or the criteria above, whichever is higher.

The average daily consumption rate in gpm was used to properly size the pneumatic bladder-type pressure tank. Using minimum and maximum pressures of 35 and 60 psi

(RSWW 7.3.1), respectively, the pressure tank or tanks, was shall be 80 gallons (10-times the pump capacity in gpm) (RSWW 7.2.2.b.) minimum.

### ***Well Design***

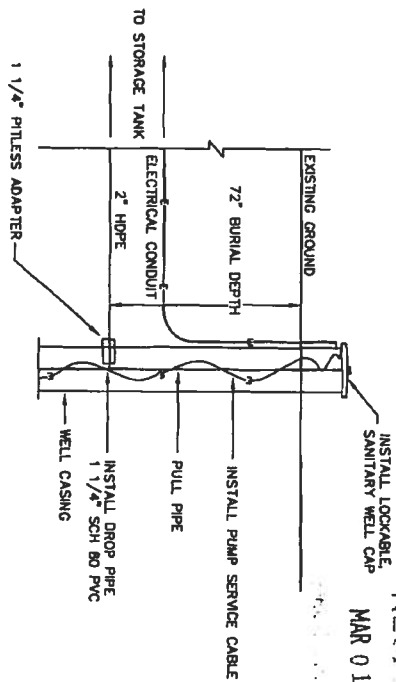
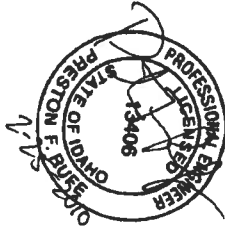
- The well construction inspection services will be performed by the engineer preparing this document
- IDWR was consulted prior to the well design. Upon consultation with IDWR, it was determined that the use of the well is classified as DOMESTIC (i.e., less than 2,500 gpd) and will not require a water right for diversion.
- Application for Drilling Permit will be filed with IDWR upon Owner's return from overseas (mid-March, 2010)
- Owner received written approval of the well site from DEQ in May, 2003
- The engineer preparing this submittal will provide engineering and inspection services during well construction
- Minimum separation distances are met with the exception of the Salmon River Road, which is less than 50 feet from the well site. See the request for variance outlined above.
- Well will be constructed with an 6-inch steel casing of minimum wall thickness of 0.28 inches, 10-inch overbore to 58 feet or through any existing confining layer, with 4.5 inch PVC liner and slotted section.
- Well seal shall be constructed of cement grout and be placed by pump.
- See well design for additional detail.
- All specifications and practices shall be in accordance with these plans, drawings, and the Idaho Standards for Public Works Construction Manual, which is incorporated by reference herein.
- Dig line shall be contacted at 1-800-342-1585, two working days prior to commencing construction.



WELL INSTALLATION DETAIL  
NO SCALE

WELL INSTALLATION NOTES:

1. ACTUAL DEPTH OF WELL MAY VARY BETWEEN 120 FEET AND 200 FEET.
2. THE 10\"/>



SUBMERSIBLE PUMP INSTALLATION DETAIL  
NO SCALE

WELL PUMP INSTALLATION NOTES:

1. GRADE AREA AROUND WELL CASING TO DRAIN AWAY FROM CASING.
  2. PUMP SHALL DELIVER A MINIMUM OF 8 GPM (AND 1700 GPD) UNDER THE FOLLOWING CONDITIONS:  
- 220 FEET TOTAL DYNAMIC HEAD.
- IF ACTUAL CONDITIONS ARE NOT WITHIN THIS RANGE OR IF THE PUMP CURVE IS NOT APPROPRIATE, AN ALTERNATIVE PUMP WILL BE SELECTED BY THE ENGINEER.

| SHOUP STORE & CAFE |         |                     |  |
|--------------------|---------|---------------------|--|
| DRAWN:             | DATE    | WATER SYSTEM        |  |
| MM                 | 2/25/10 | WELL DESIGN DETAILS |  |
| APPROVED:          | DATE    |                     |  |
| PR                 | 2/25/10 |                     |  |
| SCALE:             | SHEET   | PROJECT NO.         |  |
| NO SCALE           | 3 OF 3  | 10-002              |  |

RECEIVED  
MAR 01 2010



# TABLE OF CONTENTS:

- 1..... VICINITY MAP
- 2..... SURVEY AND SITE PLAN
- 3..... WATER SYSTEM DESIGN



| SHOUP STORE & CAFE |                  |                                     |  |
|--------------------|------------------|-------------------------------------|--|
| DRAWN:<br>MM       | DATE:<br>2/25/10 | VICINITY MAP &<br>TABLE OF CONTENTS |  |
| APPROVED:<br>PR    | DATE:<br>2/25/10 |                                     |  |
| SCALE<br>NO SCALE  | SHEET<br>1 OF 3  | PROJECT NO.<br>10-002               |  |

Form 238-F  
6/07

IDAHO DEPARTMENT OF WATER RESOURCES  
WELL DRILLER'S REPORT



1. WELL TAG NO. D 0057578

Drilling Permit No. \_\_\_\_\_

Water right or injection well # (DEQ Ref # 10-05-30)

2. OWNER

Name **Chuck Maulem**

Address **76 Aldous Drive**

City **Salmon** State **ID** Zip **83467**

3. WELL LOCATION:

Twp. \_\_\_\_\_ North ☐ or South ☐ Rge. \_\_\_\_\_ East ☐ or West ☐

Sec. \_\_\_\_\_ 10 acres 1/4 40 acres 1/4 160 acres 1/4

Gov't Lot \_\_\_\_\_ County **Lamhi**

Lat. **45: ° 22:34 N** (Deg. and Decimal minutes)

Long. **114: ° 16:38 W** (Deg. and Decimal minutes)

Address of Well Site **1829 Salmon River Road**

City **Shoup**

Lot \_\_\_\_\_ Blk. \_\_\_\_\_ Sub. Name \_\_\_\_\_

4. USE:

☐ Domestic ☒ Municipal ☐ Monitor ☐ Irrigation ☐ Thermal ☐ Injection

☐ Other \_\_\_\_\_

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Replacement well ☐ Modify existing well

☐ Abandonment ☐ Other \_\_\_\_\_

6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other \_\_\_\_\_

7. SEALING PROCEDURES

| Seal material | From (ft) | To (ft) | Quantity (lbs or ft³) | Placement method/procedure |
|---------------|-----------|---------|-----------------------|----------------------------|
| benetomite    | 0         | 58      | 1500#                 | poured                     |

8. CASING/LINER:

| Diameter (nominal) | From (ft) | To (ft) | Gauge/Schedule | Material | Casing                              | Liner                    | Threaded                 | Welded                              |
|--------------------|-----------|---------|----------------|----------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|
| 10                 | +3        | 63      | .280           | steel    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) **63'**

9. PERFORATIONS/SCREENS:

Perforations ☒ Y ☐ N Method **manufactured**

Manufactured screen ☒ Y ☐ N Type **certa-lok**

Method of installation **lowered into place**

| From (ft) | To (ft) | Slot size | Number/ft | Diameter (nominal) | Material | Gauge or Schedule |
|-----------|---------|-----------|-----------|--------------------|----------|-------------------|
| 122       | 162     | .20       |           | 4"                 | PVC      | SDR17             |

Length of Headpipe **110'** Length of Tailpipe \_\_\_\_\_

Packer ☒ Y ☐ N Type **10/20 silica sand**

10. FILTER PACK:

| Filter Material | From (ft) | To (ft) | Quantity (lbs or ft³) | Placement method |
|-----------------|-----------|---------|-----------------------|------------------|
| sand            | 122       | 162     | 750#                  | poured           |

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) \_\_\_\_\_

Describe control device \_\_\_\_\_

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) **36'** Static water level (ft) **30'**

Water temp. (°F) **cold** Bottom hole temp. (°F) **cold**

Describe access port **sanitary well seal**

Well test: \_\_\_\_\_ Test method: \_\_\_\_\_

| Drawdown (feet) | Discharge or yield (gpm) | Test duration (minutes) | Pump                     | Bailer                   | Air                                 | Flowing artesian         |
|-----------------|--------------------------|-------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|
| 162             | 20                       | 180                     | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Water Quality test or comments: **none**

13. LITHOLOGIC LOG and/or repairs or abandonment:

| Bore Dia. (in) | From (ft) | To (ft) | Remarks, lithology or description of repairs or abandonment, water temp. | Water Y | N |
|----------------|-----------|---------|--------------------------------------------------------------------------|---------|---|
| 10             | 0         | 36      | granite conglomerate                                                     |         | x |
|                | 36        | 42      | wet conglomerate                                                         | x       |   |
|                | 42        | 58      | broken granite                                                           |         | x |
| 6              | 58        | 66      | hard brown granite                                                       | x       |   |
|                | 66        | 78      | grey granite                                                             |         | x |
|                | 78        | 80      | brown gold granite                                                       | x       |   |
|                | 80        | 102     | grey granite                                                             |         | x |
|                | 102       | 105     | gold granite                                                             | x       |   |
|                | 105       | 120     | grey granite                                                             |         | x |
|                | 120       | 125     | grey wet granite                                                         | x       |   |
|                | 125       | 152     | grey hard granite                                                        |         | x |
|                | 152       | 158     | gold wet granite                                                         | x       |   |
|                | 158       | 162     | brown hard granite                                                       |         | x |

Completed Depth (Measurable) **162'**

Date: Started **4/28/10** Completed **5/13/10**

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name **Harber Drilling** Co. No. **430**

\*Principal Driller **Alan Harber** Date **6/27/10**

\*Driller \_\_\_\_\_ Date \_\_\_\_\_

\*Operator II **Alan Harber** Date **6/27/10**

Operator I \_\_\_\_\_ Date \_\_\_\_\_

\*Signature of Principal Driller and rig operator are required.

RECEIVED

JUN 30 2010

Department of Water Resources  
Eastern Region

IDAHO DEPARTMENT OF WATER RESOURCES  
WELL DRILLER'S REPORT1. WELL TAG NO. D Abandon-Chuck Maulem

Drilling Permit No. \_\_\_\_\_

Water right or injection well # (DEQ ref# 10-05-30)

## 2. OWNER

Name Chuck MaulemAddress 76 Aldous DriveCity SalmonState IDZip 83467

## 3. WELL LOCATION:

Twp. \_\_\_\_\_ North ☐ or South ☐ Rge. \_\_\_\_\_ East ☐ or West ☐

Sec. \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4

Gov't Lot \_\_\_\_\_ County LemhiLat. 45 ° 22:34 (Deg. and Decimal minutes)Long. 114 ° 16:38 (Deg. and Decimal minutes)Address of Well Site 1829 Salmon River RdCity Shoup

(Give at least one of front - Distance to Road or Landmark)

Lot \_\_\_\_\_ Blk. \_\_\_\_\_ Sub. Name \_\_\_\_\_

## 4. USE:

☐ Domestic ☒ Municipal ☐ Monitor ☐ Irrigation ☐ Thermal ☐ Injection  
☐ Other

## 5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Replacement well ☐ Modify existing well☒ Abandonment ☐ Other

## 6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other

## 7. SEALING PROCEDURES

| Seal material | From (ft) | To (ft) | Quantity (lbs or ft <sup>3</sup> ) | Placement method/procedure |
|---------------|-----------|---------|------------------------------------|----------------------------|
|               |           |         |                                    |                            |

## 8. CASING/LINER:

| Diameter (nominal) | From (ft) | To (ft) | Gauge/Schedule | Material | Casing                   | Liner                    | Threaded                 | Welded                   |
|--------------------|-----------|---------|----------------|----------|--------------------------|--------------------------|--------------------------|--------------------------|
|                    |           |         |                |          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                    |           |         |                |          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                    |           |         |                |          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Was drive shoe used? ☐ Y ☐ N Shoe Depth(s) \_\_\_\_\_

## 9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☐ N Method \_\_\_\_\_Manufactured screen ☐ Y ☐ N Type \_\_\_\_\_

Method of installation \_\_\_\_\_

| From (ft) | To (ft) | Slot size | Number/ft | Diameter (nominal) | Material | Gauge or Schedule |
|-----------|---------|-----------|-----------|--------------------|----------|-------------------|
|           |         |           |           |                    |          |                   |
|           |         |           |           |                    |          |                   |

Length of Headpipe \_\_\_\_\_

Length of Tailpipe \_\_\_\_\_

Packer ☐ Y ☐ N Type \_\_\_\_\_

## 10. FILTER PACK:

| Filter Material | From (ft) | To (ft) | Quantity (lbs or ft <sup>3</sup> ) | Placement method |
|-----------------|-----------|---------|------------------------------------|------------------|
|                 |           |         |                                    |                  |

## 11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☐ N Artesian Pressure (PSIG) \_\_\_\_\_

Describe control device \_\_\_\_\_

## 12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) \_\_\_\_\_ Static water level (ft) \_\_\_\_\_

Water temp. (°F) \_\_\_\_\_ Bottom hole temp. (°F) \_\_\_\_\_

Describe access port none

Well test:

Test method:

| Drawdown (feet) | Discharge or yield (gpm) | Test duration (minutes) | Pump                     | Bailer                   | Air                      | Flowing artesian         |
|-----------------|--------------------------|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                 |                          |                         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Water Quality test or comments: \_\_\_\_\_

## 13. LITHOLOGIC LOG and/or repairs or abandonment:

| Bore Dia. (in)                                                                     | From (ft) | To (ft) | Remarks, lithology or description of repairs or abandonment, water temp. | Water |
|------------------------------------------------------------------------------------|-----------|---------|--------------------------------------------------------------------------|-------|
| 10                                                                                 | 0         | 10      | boulders top soil                                                        | Y N   |
|                                                                                    | 10        | 38      | decomposed granite                                                       | x     |
|                                                                                    | 38        | 42      | sandy silt gravel wet                                                    | x     |
|                                                                                    | 42        | 60      | fractured granite                                                        | x     |
| WELL WAS ABANDONED ACCORDING TO IDWR REGULATION. SEALED WITH 3200 POUNDS BENTONITE |           |         |                                                                          |       |

Completed Depth (Measurable) \_\_\_\_\_

Date: Started \_\_\_\_\_

Completed 4/15/2010

## 14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Harber DrillingCo. No. 430\*Principal Driller Alan HarberDate 6/27/10

\*Driller \_\_\_\_\_

Date \_\_\_\_\_

\*Operator II Alan HarberDate 6/27/10

Operator I \_\_\_\_\_

Date \_\_\_\_\_

\*Signature of Principal Driller and rig operator are required.

JUN 30 2010

Department of Water Resources  
Eastern Region

10/1/03

Drilling Permit No. \_\_\_\_\_

Drilling Permit I.D. Tag No. 10057578

Water Right Permit No. \_\_\_\_\_

Injection Permit No. \_\_\_\_\_

State of Idaho  
Department of Water ResourcesAPPLICATION FOR DRILLING PERMIT  
(FOR THE CONSTRUCTION OF A WELL)

1. Owner (please print): CHARLES MUALEM / SHOUP STORE
2. Mailing Address: 76 ALDOUS Drive  
City: SALMON State: ID Zip Code: 83467 Telephone (208) 940-2173
3. Proposed Well Location: Twp. UNSURVEYED, Sec. —, — 1/4 — 1/4 — 1/4  
Gov't Lot No. \_\_\_\_\_ County LEMHI Lat. 45: 22: 39 N Long. 111: 16: 38 W  
Street Address of Well Site 1829 SALMON RIVER RD City SHOUP  
Give at least name of road & distance to road or landmark  
Lot N/A Block N/A Subdivision N/A
4. Proposed Use of Well: DEQ REF # DEQ No. 10-05-30

☒ DOMESTIC: The use of water for homes, organization camps, public campgrounds, livestock, and for any other purpose in connection therewith, including irrigation of up to 1/2 acre of land, if the total use is not in excess of 13,000 gpd; or any other uses, if the total use does not exceed a diversion rate of 0.04 cfs and a diversion volume of 2500 gpd.

Domestic does not include water for multiple ownership subdivisions, mobile home parks, commercial or business establishments, unless the use does not exceed a diversion rate of 0.04 cfs and a diversion volume of 2500 gpd.

☐ NON-DOMESTIC:

☐ Irrigation

☐ Municipal

☐ Industrial

☐ Livestock

☐ Test

☐ Other \_\_\_\_\_

Type & Number in Hd.

☐ INJECTION

☐ MONITORING: A well bore schematic and map is required for each blanket permit.

No. of proposed wells: \_\_\_\_\_

## 5. Well Construction Information:

A. ☒ New well

☐ Modify

☐ Replace

B. Proposed Casing Diameter 6"

Proposed Maximum Depth 150 FT

C. Anticipated bottom hole temperature:

☒ 85 F or less  
(Cold Water Well)

☐ 85 F to 212 F  
(Low Temp. Geo. Well)

☐ 212 F. or more  
(Geothermal Well)

6. Construction Start Date: APRIL - 2010

7. Anticipated Well Driller: HARBOR DRILLING

Driller's Lic. No. 430

NOTE: The actual well driller must be identified prior to drilling.

8. Applicant's Signature: \_\_\_\_\_

Date 4/5/10

Address (if different than owner): \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_ Telephone (\_\_\_\_) \_\_\_\_\_

Title: \_\_\_\_\_

RECEIVED

(Owner, Firm Representative, Other)

APR 07 2010

Department of Water Resources  
Eastern Region

## ACTION OF THE DEPARTMENT OF WATER RESOURCES

This Permit is Approved

Date April 7, 2010

If approved, this permit authorizes the construction or modification of a well subject to the following conditions. **READ CAREFULLY!**

### GENERAL CONDITIONS:

1. This drilling permit is valid for two (2) months from the above approval date for the start of construction and is valid for one (1) year from the approval date for completion of the well unless an extension has been granted.
2. This permit does not constitute an approval of the District Health Department or the Idaho Department of Health and Welfare, which may be required before construction of the well. All wells must be drilled a minimum distance of 100 feet from a drain field. Domestic and Public Water Supply wells must be drilled a minimum of 50 feet and 100 feet respectively from a septic tank.
3. The well shall be constructed by a driller currently licensed in the State of Idaho who must maintain a copy of the drilling permit at the drilling site.
4. Approval of this drilling permit does not authorize trespass on the land of another party.
5. This permit does not constitute other local, county, state or federal approvals, which may be required for construction of a well.
6. This drilling permit does not represent a right to divert and use the water of the State of Idaho. If the well being drilled is associated with approved water right(s), use of the well must comply with conditions of said water right(s).
7. If a bottom hole temperature of 85 or greater is encountered, well construction shall cease and the well driller and the well owner shall contact the Department immediately.
8. Idaho Code, S 55-2201 - 55-2210 requires the applicant and/or his contractors to contact "Digline" (DigLine is a one-call center for utility notification) not less than 2 working days prior to the start of any excavation for this project. The "DigLine" Number for your area is 1-800-342-1585.
9. Please be advised that this drilling permit should be considered and treated as a preliminary permit. If you are in disagreement with this preliminary permit you have fourteen (14) days of the service date of this permit to petition the Department for reconsideration pursuant to Section 67-5243, Idaho Code.
10. The well tag for the drilling permit/start card shall be securely and permanently attached to the well casing through welding or by the use of four closed-end domed stainless steel pop rivets. The tag attachment will be done at the time of completion of the well, and prior to removing the drill rig from the drill site.

### SPECIFIC CONDITIONS:

1. This well must be constructed according to the design approved by DEQ.
2. Any changes to the well construction must be approved by DEQ and the P.E./P.G. prior to such changes being made.
3. Failure to follow the approved well design will result in the well not being approved for public use.

Annex Dunn

Signature of Authorized Department Representative

Sr. Water Resource Agent

Title

Receipt No. FD35715 Received by Annex Dunn Fee 75.00 Date April 7, 2010

### EXTENSION OF DRILLING PERMIT

Extension approved by \_\_\_\_\_ Approval Date \_\_\_\_\_

This extension expires: \_\_\_\_\_