

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 47-16815

Exam Date: 8/29/2012

1. Current Owner: SALMON TRACT RURAL FIRE PROTECTION DIST
2450 N 2411 E
TWIN FALLS ID 83301
(208)655-4222
2. Accompanied by: Jeannie Roberston I spoke with Rodney Davis of the Salmon Tract Rural Fire Protection District on the telephone after the field exam to verify domestic use at the station.
Phone No: 208-731-3829
Address: 2450 N. 2411 E.
Relationship to Permit Holder: IDWR staff and Fire Chief

3. SOURCE TRIBUTARY
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 47-7381 Rogerson Water District
2. Other water rights with the same point of diversion: 47-7381 Rogerson Water District

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER L1 NE1/4NE1/4NE1/4 Sec. 17, Twp 14S, Rge 16E, B.M.
TWIN FALLS County

Method of Determination: GPS point was collected 8/29/2012.

PLACE OF USE: FIRE PROTECTION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
14S	16E	17	X																
			L 1																

Method of Determination: 2011 aerial photography and taxlot information.

3. ☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☐ 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>
D0023079		15			

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

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>

2. Measurements: A measurement is not required for fire protection if diversion rate does not exceed 0.24 cfs according to new Beneficial Use Examination Rules.

E. FLOW CALCULATIONSX Additional Computation Sheets Attached**Measured Method:**

Theoretical Horsepower Equation Worksheet from the State Office is attached. Worksheet calculates a flow of 0.28 cfs or 126 gpm. This exceeds the permitted flow of 0.23 cfs or 103 gpm. Elsing Drilling also verified the pump capacity tested at the time of drilling measured around 100 gpm. Recommended flow rate the permitted 0.23 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses:

No volume for fire protection.**G. NARRATIVE/REMARKS/COMMENTS**

Application for permit was filed on June 29, 2001 for the diversion of 0.23 cfs for fire protection associated with a fire guard station. Permit was approved on November 9, 2001 and Proof of Beneficial use was filed on October 16, 2002.

According to the new Beneficial Use Examination Rules, a physical measurement for fire protection use is not necessary if the diversion rate does not exceed 0.24 cfs. The system consists of one well and a 15 HP pump. Elsing Drilling indicated the well produced around 0.22 cfs or 100 gpm maximum capacity at the time the well was drilled. The theoretical yield was calculated at 0.28 or 125.9 gpm but exceeds the limits (0.23 cfs) of the permit. (See attached worksheet) **Recommended permitted rate of 0.23 cfs.**

A volume estimate is not required for fire protection use per new Beneficial Use Examination Rules implemented 3/29/2012.

Note, overlapping domestic water right 47-7381 is for the city of Rogerson. Domestic use for the Fire Station is covered under this right.

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

Permit No: 47-16815

Page 3

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
FIRE PROTECTION	01/01 to 12/31	0.230 CFS	N/A
<u>Totals:</u>		0.230 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 Sana Reeder Date _____

Reviewer [Signature] Date 9/13/2012

D0023079

Elsing Drilling 9/4/12

15 HP

214' depth to Water

50 PSI

pump rated at 100 gpm capacity

$$\frac{15 \times .7 \times 8.8}{214 + (50 \times 2.31)} = \frac{92.4}{329.5} = .28 \text{ or } 126 \text{ gpm}$$

Eddy Sanchez BIM 208-677-6684

Rod Davis 731-3829

Domestic Use covered by 47-7381

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 47-16815
Examiner: Jana Reeder
Date of Field Exam: 8/29/2012

P/D No.:	Option 1	Option 2	Option 3
PUMP HORSEPOWER	15	0	0
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	214	0	0
DISCHARGE PRESSURE	50	0	0
FRICTION	0	0	0
RATE OF FLOW (cfs)	0.28	#DIV/0!	#DIV/0!
(gpm)	125.9	#DIV/0!	#DIV/0!

AVE
#####

The above calculates the formula = $Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$

Assumptions: 870 efficiency.

Examiners Notes: Exceeds permitted rate of 0.23

WELL DRILLER'S REPORT

CA

City Buhl State ID Zip 83316

FORWARD WHITE COPY TO WATER RESOURCES

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
_____ 1/4 _____ 1/4 _____ 1/4
Lat: : : Long: : :

1. WELL TAG NO. D 0023079

DRILLING PERMIT NO. 776840
Other IDWR No. ID# 348670; App # 871256
Water Right No. 47-16815
2. OWNER: Salmon Tract Rural Fire Protection
Name District %Hayes Construction Co., Inc.
Address P.O. Box 209
City Buhl State ID Zip 83316

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N
 W E
 Twp. 14 North ☐ or South ☒
 Rge. 16 East ☐ or West ☐
 Sec. 17 NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$
 Gov't Lot _____ County Twin Falls
 Lat: _____ Long: _____

Address of Well Site _____
East of Rogerson City Well City Rogerson
 (Give at least name of road + Distance to Road or Landmark)

Lt.	Blk.	Sub.	Name	.
------------	-------------	-------------	-------------	---

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☒ Other **Fire Protection**

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

☐ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☐ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	

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

Was drive shoe seal tested? ☐ Y ☐ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations	Method
--------------	--------

Screens	Screen Type
---------	-------------

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

ft. below ground Artesian pressure lb.

Depth flow encountered _____ ft. Describe access port or control devices: _____

11. WELL TESTS:

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment) Water

[illegible]

13. DRILLER'S CERTIFICATION

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

Company Name Elsing Drilling Firm No. 31

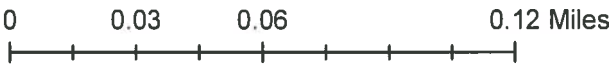
Firm Official Arnold Eising Date 6-3-02

and
Driller or Operator Craig Egan Date 6-3-02

(Sign once if Firm Official & Operator)

State of Idaho
Department of Water Resources
Attachment To Water Right License
47-16815

This map depicts the FIRE PROTECTION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters





D0023079



Station to fill trucks



State of Idaho
DEPARTMENT OF WATER RESOURCES
1341 Fillmore Street, Suite 200, Twin Falls, ID 83301-3380
Phone: (208) 736-3033 FAX: (208) 736-3037

SOUTHERN REGION

Memorandum

DIRK KEMPTHORNE
GOVERNOR

KARL J. DREHER
DIRECTOR

To: Application 47-16815

From: John Freitag, Water Resource Agent

Re: Review notes

Date: 8-9-01

The well to be drilled under this application is also intended to be used as a back-up well for the City of Rogerson. The Rogerson City Water District has filed a transfer to add this POD and POU to their water right 47-7381.

Water right 47-7381 was the only overlap found.

This application is intended to fill fire trucks only. Domestic water for the fire station will be supplied from the City of Rogerson's system.

APPROVED
AUG 10 2001