

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 36-16062

Exam Date: 4/10/2012

1. Current Owner: US DEPT OF INTERIOR
BUREAU OF LAND MANAGEMENT
400 WEST F ST
SHOSHONE ID 83352
(208)732-7200

2. 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 SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER NE1/4NE1/4 Sec. 8, Twp 07S, Rge 23E, B.M.
LINCOLN County

Method of Determination: Field Visit (by Nathan Erickson, IDWR well inspector) and aerial photography

2.

PLACE OF USE: DOMESTIC

Tw	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
07S	23E	8	X																

PLACE OF USE: FIRE PROTECTION

Tw	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
07S	23E	8	X																

Method of Determination: Aerial photography and GIS

D. FLOW CALCULATIONS

Theoretical yield:

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

Where: Hp = 15 Hp (per Roger Dalrymple of the BLM)

Eff = 70% (assumed)

H = elevation distance + 2.31 x operating pressure (assume elevation difference of 264.0 feet based on well log pumping level during well test and operating pressure of 45 psi).

$$H = 264.0 \text{ feet} + (2.31 \times 45 \text{ psi}) = 367.95$$

$$Q = \frac{8.8 \times (15) \times (0.70)}{367.95}$$

Q = 0.25 cfs Rate exceeds permitted amount of 0.02 cfs, therefore **recommend permitted rate of 0.02 cfs**

E. VOLUME CALCULATIONS

Not required for domestic and fire protection uses per new Beneficial Use Examination Rules implemented 3/29/2012

F. NARRATIVE/REMARKS/COMMENTS

Application for permit 36-16062 was filed on July 11, 2002 for the diversion of 0.02 cfs of groundwater for domestic and fire protection use associated with a proposed fire station. Permit 36-16062 was issued on September 16, 2002 and Proof of Beneficial Use was filed on August 26, 2005.

The licensing exam report was written up in the office based on information obtained from the IDWR GIS system and aerial photography, a well log indicating that the well proposed by application for permit 36-16062 was completed in June of 2004, and additional information obtained from BLM representatives. In addition, Nathan Erickson, IDWR well inspector, visited the site on April 3, 2012, to verify the location of the well. A theoretical estimate of the well yield indicates that it can produce at least the permitted rate of 0.02 cfs, so it is recommended that license 36-16062 be issued for 0.02 cfs for domestic and fire protection uses, with the domestic use being culinary water for the fire station, water of landscaping around the fire station, and filling and cleaning fire trucks at the fire station. Note that a volume estimate is not required for domestic and fire protection uses per new Beneficial Use Examination Rules implemented 3/29/2012.

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
FIRE PROTECTION	01/01 to 12/31	0.010 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

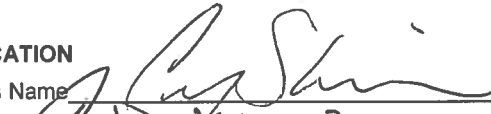
H. AUTHENTICATION

Field Examiner's Name

Date

Reviewer

Date




4/10/2012

4/27/2012

WELL DRILLER'S REPORT

1. DRILLING PERMIT NO.

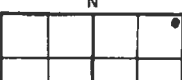
Other IDWR No. Tag # 00034 027

2. OWNER:

Name Bureau of Land Mgmt
Address P.O. Box 2-B
City Shoshone State ID Zip 83352

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.



Twp. 7 North ☐ or South ☒
 Rge. 23 East ☒ or West ☐
 Sec. 8 1/4 NE 1/4 NE 1/4
10 acres 40 acres 160 acres
 Gov't Lot _____ County Lincoln

Address of Well Site 1500 N, 600 W
+ 200' SSW City Raper
 (Give at least name of road + Distance to Road or Landmark)

Lt. _____ Blk. _____ Sub. Name _____

4. PROPOSED USE:

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

5. TYPE OF WORK

☒ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD

☐ Mud Rotary ☐ Air Rotary ☒ Cable ☐ Other_____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Bentonite Chips	0	64	70 sacks	From surface then hydrated

- Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) 1/2
Was drive shoe seal tested? Y ☐ N ☐ How? 1/2

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8"	350	4	322	Steel	☒	☐	☒	☐
10"	4	+1.8	375	Steel	☒	☐	☒	☐
					☐	☐	☐	☐

Length of Headpipe Spool type Length of Tailpipe Pitless unit

9. PERFORATIONS/SCREENS

☒ Perforations Method torch bi-bevel
☐ Screens Screen Type _____

From	To	Survey	Number	Diameter	Material	Casing	Line
350	297	0.250	200	8"	Steel	☒	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

264 ft. below ground Artesian pressure 11.5 lb.
Depth flow encountered _____ ft. Describe access port or
control devices: Through cover (Baker Monitor)

11. WELL TESTS:

☒ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
115.0	0.02'	264	24 hrs.

Water Temp. 53°F Bottom hole temp. 53°F
Water Quality test or comments: apparently good; odorless,
tasteless, clear. Pending analysis

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

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
14	0	6	Lt. brn. silty clay, some sand		X
14	6	12	Grey fractured basalt		X
14	12	28	Soft vesicular basalt		X
14	28	59	Hard broken basalt, brn-grey		X
13	59	65	Very hard dark grey basalt		X
12	65	83	Brn-grey basalt, med. hard		X
12	83	95	Soft brown basalt		X
12	95	106	Hard basalt, dark brn-grey		X
12	106	130	Brown basalt, med. hard		X
12	130	143	Hard basalt, brn-grey		X
12	143	227	Soft brown basalt		X
12	227	259	Fractured brown basalt, some scoria		X
12	259	262	Hard grey basalt		X
12	262	274	Hard black basalt	X	
12	274	290	Fractured brn. basalt w/ scoria	X	
12	290	309	Hard dark grey basalt		X
12	309	320	Broken brn. basalt and scoria	X	
12	320	330	Brown-grey basalt, med. hard	X	
12	330	350	Broken brown basalt	X	

RECEIVED

JUL 19 2004

Department of Water Resources
700 North Main Street

Completed Depth 350' (Measurable)
Date: Started 5/5/04 Completed 6/29/04

13. DRILLER'S CERTIFICATION

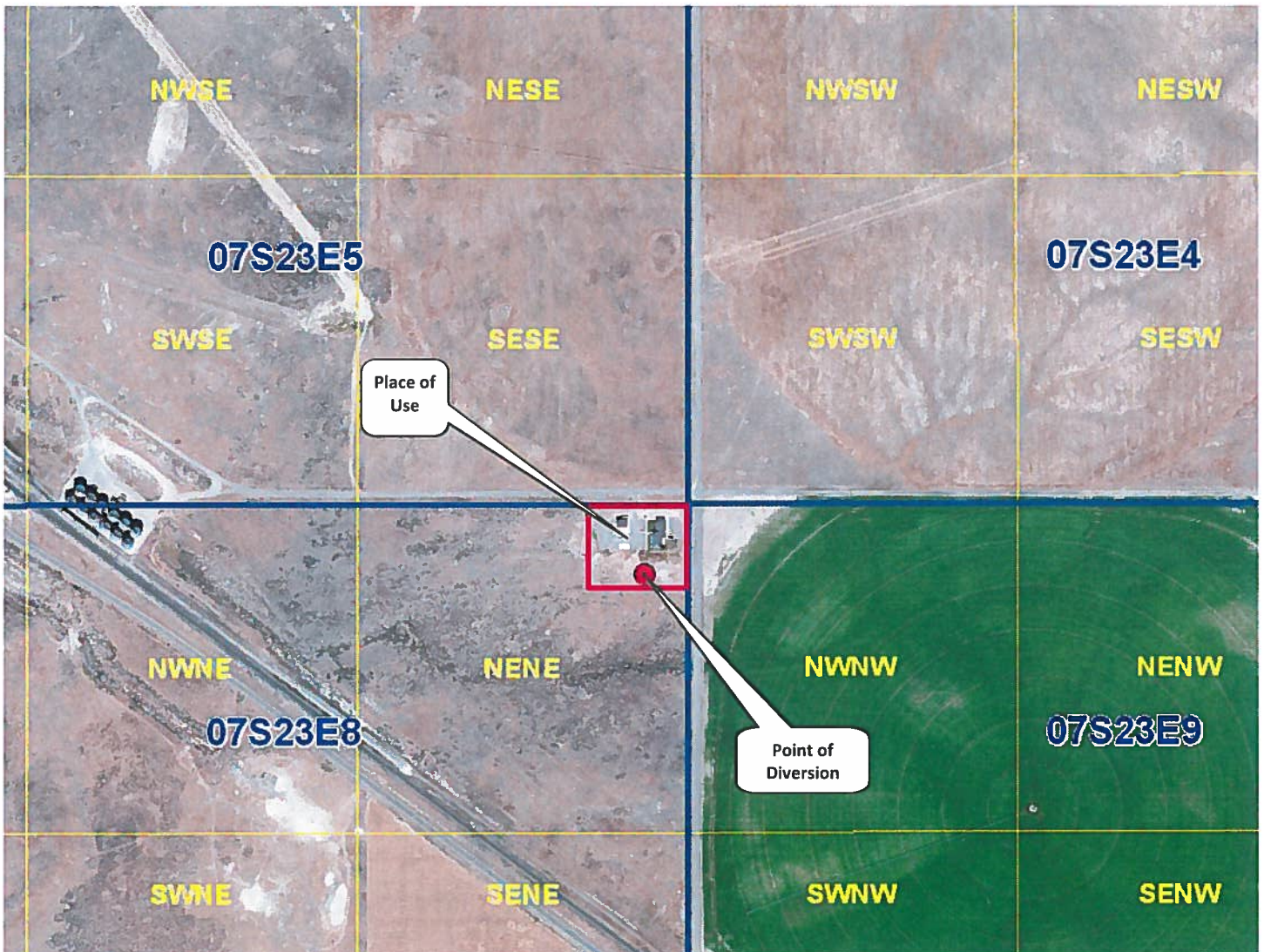
I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name Stan Lloyd Drilling, LLC Firm No. 294
Firm Official Alan Lloyd Date 7/14/04
and _____
Supervisor or Operator _____ Date _____

(Sign once if Firm Official & Operator)

37-16062 Point of Diversion & Place of Use Map

Bing Maps Aerial Photography



36-16062 Point of Diversion & Place of Use Photos



ABOVE: View of point of diversion (well).

BELOW: View from southeast corner of place of use showing well site and buildings as part of the place of use. Some lawn irrigation and landscaping exists around building at right edge of view.

