

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 41-7095

Exam Date: 12/08/2012

1. Current Owner: STATE OF IDAHO
DEPT OF TRANSPORTATION
DIVISION OF HWYS
PO BOX 4700
POCATELLO ID 83205
(208)232-4270
2. Accompanied by: Jerry Bauer (telephone conversations)
Phone No: 208-201-3311
Address: same as above
Relationship to Permit Holder: Idaho Transportation Department Employee

3. SOURCE TRIBUTARY
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 41-7075
2. Other water rights with the same point of diversion: 41-7075

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

GROUND WATER	NE1/4SE1/4NW1/4	Sec. 26,	Twp 09S,	Rge 28E, B.M.
POWER County				
GROUND WATER	SE1/4SE1/4NW1/4	Sec. 26,	Twp 09S,	Rge 28E, B.M.
POWER County				

Method of Determination: Aerial Photography and GIS

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
09S	28E	26			X				X										

Method of Determination: Aerial Photography and GIS

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</u> <u>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</u> <u>Size</u>
D00140890	New Well	7.5		Submersible	
	Existing Well	5.0			

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

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
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2. Measurements: No measurement made

E. FLOW CALCULATIONS

_____Additional Computation Sheets Attached

Measured Method:

Theoretical Q = $8.8 \times 0.7 \times 7.5 / 284 + (70 \times 2.31) = 0.1 \text{ cfs} - 0.06 \text{ cfs (original WR)} = 0.04 \text{ cfs}$ Applicants are only seeking **0.02 cfs**

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: NA

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

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

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

2. Volume Calculations for Other Uses:

10 gallons per day per person

400 visitors per day increase over original WR

$$10 \text{ gpd} \times 400 \text{ visitors} \times 365 \text{ days} / 325850 \text{ gal per AF} = 4.5 \text{ AF}$$

G. NARRATIVE/REMARKS/COMMENTS

The facility has two restrooms and a drinking fountain and there are three irrigated lawn areas totaling about 1.2 acres, well over the 0.5 acre allowed under a domestic right. It appears, from past aerial photography, that these areas have been irrigated for at least 20 years.

The second well was drilled in 2000, and is the main well now, while the original well is the backup well. The number of visitors to the rest area is 600 per day, up from 200 in 1991.

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	4.50 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 James Bitzenburg

Date 12/08/2012

Reviewer

Date

1/17/2013

Box 41

APP 861623

Per 764386

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

1. WELL TAG NO. D ~~0004225~~ D0014089

DRILLING PERMIT NO. _____

Other IDWR No. 25289

2. OWNER:

Name State & Id Transp Dept.

Address PO Box 4700

City Boise State Id Zip 83721

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N

W E S

Twp. 9 North ☐ or South ☒
Rge. 28 East ☒ or West ☐
Sec. 26 1/4 SW 1/4 NE 1/4
Gov'l Lot _____ County Blaine
Lat: _____ Long: _____
Address of Well Site High 86 City _____

(Give at least name of road + Distance to Road or Landmark)

Lt. _____ Bk. _____ Sub. Name _____

4. USE:

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

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

- ☐ New Well ☐ Modify ☐ Abandonment ☒ Other Repair

6. DRILL METHOD

- ☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks or Pounds		
Bentonite	0	480	80 sacks		Overbore
Cement	480	520	4 yds		Tremy Tube

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

Was drive shoe seal tested? ☒ Y ☐ N How? Air

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
12"	+1	520	250	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations _____ Method None

Screens _____ Screen Type _____

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

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

194 ft. below ground Artesian pressure _____ lb.

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

11. WELL TESTS:

- ☐ Pump ☐ Bailor

Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 1/4 1/4
Lat: _____ Long: _____
☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>75</u>	<u>176</u>	<u>372</u>	<u>1 hr</u>

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
16"	0	50	Red Sandy Soil		☒
14"	50	280	Red Sandy Soil		☒
	280	284	Sandy Clay		☒
	284	340	Red Sandy Soil		☒
	340	345	Clay		☒
	345	420	Red Sandy Soil		☒
	420	480	Clay Sand		☒
14"	480	520	Red Sand		☒
12"	520	635	Lava Rock Grey		☒
	635	660	Brown Red Rock (Fracture)		☒
	660	678	Brown Rock		☒
	678	685	Grey Rock Clay		☒
	685	693	Brown Clay Stone		☒
	693	710	Brown Rock Little Clay		☒
"	710	725	Very Hard Brown Rock		☒

RECEIVED

JUL 12 2000

RECEIVED

Department of Water Resources
Southern Region

JUL 20 2000

Department of Water Resources

Completed Depth 725 (Measurable)

Date: Started 4-1-00 Completed 5-1-00

13. DRILLER'S CERTIFICATION

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

Company Name Volmer Well Drilling Firm No. 383

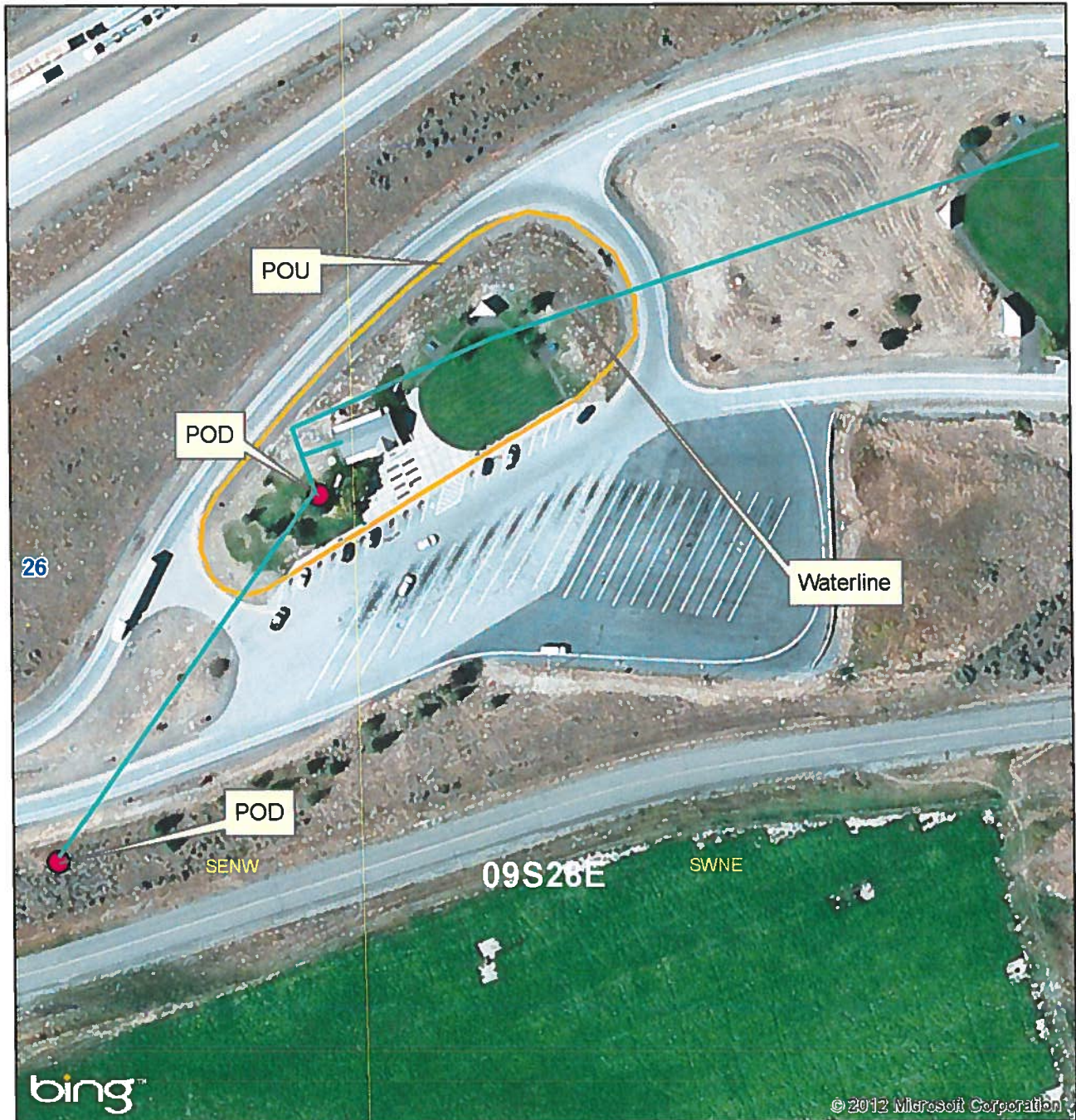
Firm Official [Signature] Date 05/10/00

and _____

Driller or Operator [Signature] Date 5-10-00

(Sign once if Firm Official & Operator)

Idaho Department of Water Resources



41-7095 State of Idaho
System Diagram

Legend

- Township/Range
- Sections
- QQ

0 0.0125 0.025 0.05 Miles



Date: 12/11/2012



New Well

Rest Area Grounds- Original Well at Arrow



41-7095



Rest Area Building and Lawn

41-7095