

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT
To appropriate the public waters of the State of Idaho

Permit No. 36-16829 (76329)
RECEIVED
FEB 25 2010
DEPT. OF WATER RESOURCES
SOUTHERN REGION

1. Name of applicant(s) Idaho Power Phone (208) 838-2905
Name connector (check one): ☐ and ☐ or ☐ and/or 389
Mailing address: c/o Jon Bowling P.O. Box 70 City Boise
State ID Zip 83707 Email: jbowling@idahopower.com

2. Source of water supply Ground Water which is a tributary of _____

3. Location of point(s) of diversion:

Twp	Rge	Sec	Govt Lot	¼	¼	¼	County	Source	Local name or tag #
7S	13E	11	2	NW	NE	NW	Gooding	Ground Water	

4. Water will be used for the following purposes:

Amount 0.20 cfs for Domestic purposes from 1/1 to 12/31 (both dates inclusive)
(cfs or acre-feet per year)
Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per year)
Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per year)
Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per year)

5. Total quantity to be appropriated is (a) 0.20 cubic feet per second (cfs) and/or (b) _____ acre-feet per year (af).

6. Proposed diverting works:

- a. Describe type and size of devices used to divert water from the source. Water is diverted from an existing well.
- b. Height of storage dam N/A feet; active reservoir capacity N/A acre-feet; total reservoir capacity N/A acre-feet. If the reservoir will be filled more than once each year, describe the refill plan in item 12.
- c. Proposed well diameter is 8 inches; proposed depth of well is 305 feet.
- d. Is ground water with a temperature of greater than 85°F being sought? No
- e. If well is already drilled, when? 8/10/2007; drilling firm Eaton Drilling and Pump;
Well was drilled for (well owner) Idaho Power; Drilling Permit No. 0044486

7. Time required for completion of works and application of water to proposed beneficial use is 5 years (minimum 1 year).

8. Description of proposed uses (if irrigation only, go to item 9):

- a. Hydropower; show total feet of head and proposed capacity in kW. N/A
- b. Stockwatering; list number and kind of livestock. N/A
- c. Municipal; show name of municipality or the applicant's qualifications as a municipal provider. N/A
- d. Domestic; show number of households. 6 Homes
- e. Other; describe fully. One public park restroom and domestic use in the the Lower Salmon Dam powerhouse.

9. Description of place of use:

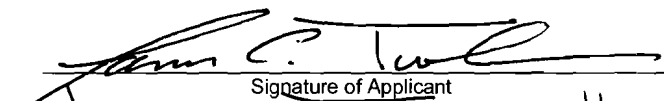
- If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
- If water is used for other purposes, place a symbol of the use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
7S	13E	11					D	D											
7S	13E	2											D	D					

Total number of acres to be irrigated: 0.0

- Describe any other water rights used for the same purposes as described above. Include water delivered by a municipality, canal company, or irrigation district. If this application is for domestic purposes, do you intend to use this water, water from another source, or both, to irrigate your lawn, garden, and/or landscaping? This water right is to replace the domestic water supplied by water right 36-15388. Water right 36-15388 is from a spring that has experienced a decline in flow and can no longer provide adequate water for the facility.
- Who owns the property at the point of diversion? Idaho Power
 - Who owns the land to be irrigated or place of use? Idaho Power
 - If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing: _____
- Describe your proposal in narrative form, and provide additional explanation for any of the items above. Attach additional pages if necessary. This application is to replace an existing spring source with a ground water source. The spring source can no longer provide adequate water to meet the needs of the facility. This application also replaces a lapsed permit 36-16519.
- MAP OF PROPOSED PROJECT REQUIRED** - Attach an 8½"x11" map clearly identifying the proposed point of diversion, place of use, section #, township & range. A photocopy of a USGS 7.5 minute topographic quadrangle map is preferred.

The information contained in this application is true to the best of my knowledge. I understand that any willful misrepresentations made in this application may result in rejection of the application or cancellation of an approval.


 Signature of Applicant
JAMES C. TUCKER Attorney
 Print Name (and title, if applicable)

 Signature of Applicant

 Print Name (and title, if applicable)

For Department Use:

Received by JS Date 2-25-10 Time noon Preliminary check by JS
 Fee \$ 100⁰⁰ Receipted by JS Receipt No. 5031298 Date 2-26-10

Idaho Power

Dan B. Minor

Executive Vice President of Operations

John R. “Ric” Gale

Vice President of Regulatory Affairs

N. Vern Porter

Vice President of Delivery Engineering and Operations

Lisa A. Grow

Senior Vice President of Power Supply

Warren Kline

Vice President of Customer Service and Regional Operations

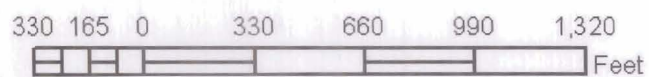
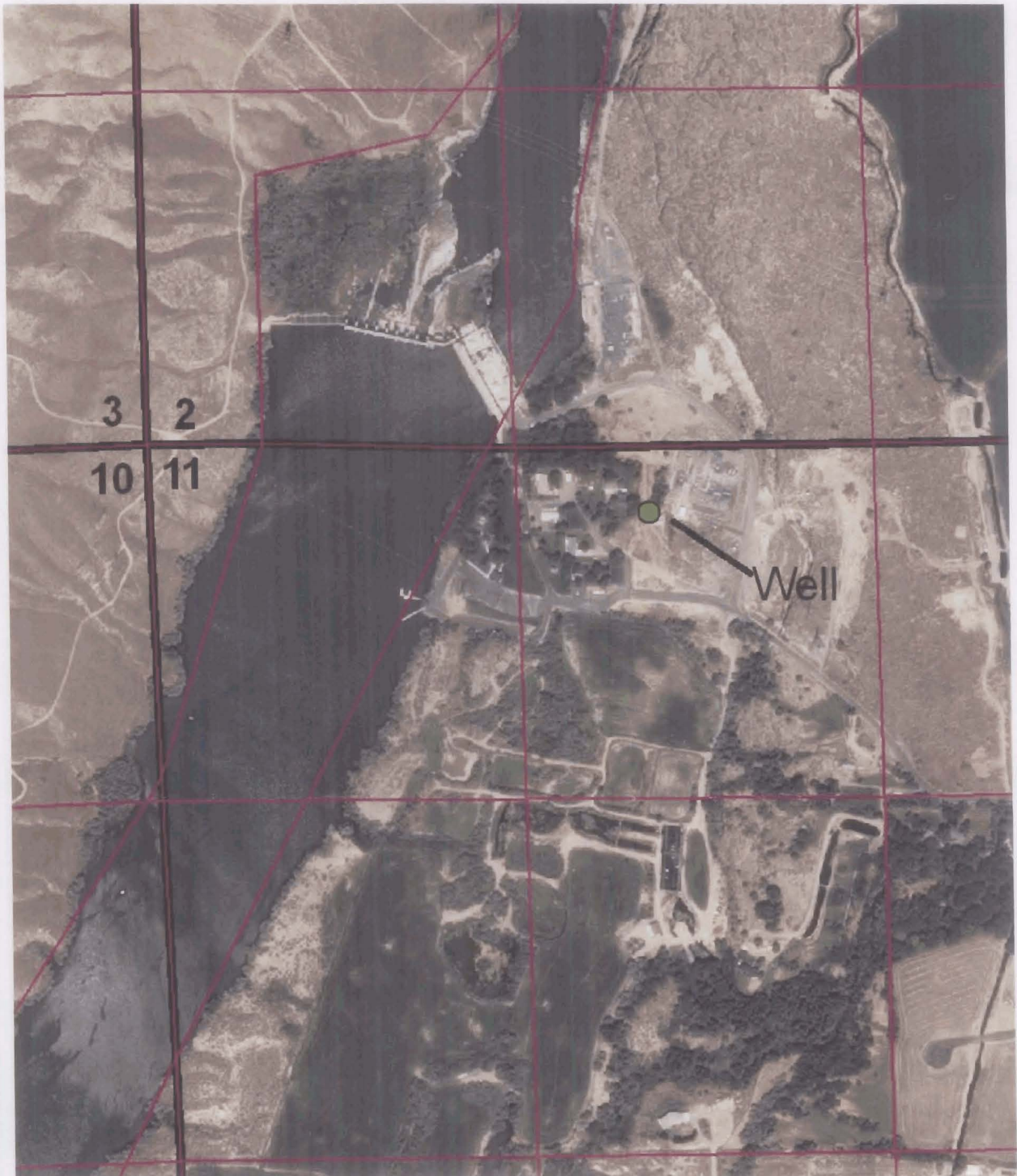
Idaho Power
Application for Permit
Location Map

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7S 13E

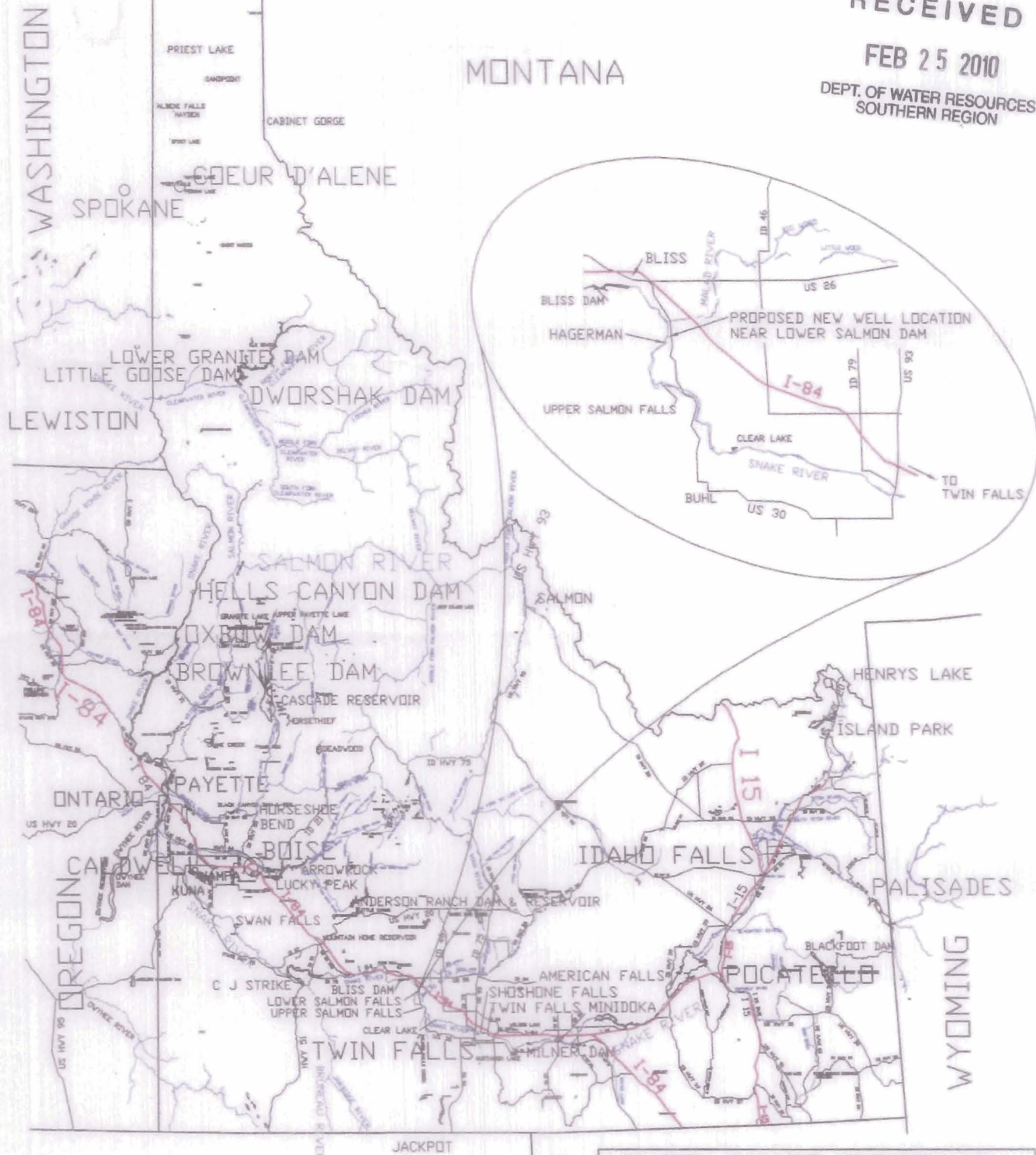


CANADA

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MAY 30 2007

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UTAH

LOCATION MAP FOR PROPOSED NEW
DOMESTIC WATER WELL AT
LOWER SALMON DAM VILLAGE
COUNTY: GOODING
SW1/4 NW1/4 SW1/4 S.11, T7S, R13E
GOVT LOT 2
MAY, 2007

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MAY 04 2007
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NOTES

1. ALL DISTANCES ARE IN FEET UNLESS OTHERWISE NOTED.

2. ALL ELEVATIONS ARE IN FEET UNLESS OTHERWISE NOTED.

3. ALL CONCENTRATIONS ARE IN PPM UNLESS OTHERWISE NOTED.

4. ALL PERCENTAGES ARE IN PERCENT UNLESS OTHERWISE NOTED.

5. ALL DATES ARE IN MONTHS AND YEARS UNLESS OTHERWISE NOTED.

6. ALL DIRECTIONS ARE IN DEGREES UNLESS OTHERWISE NOTED.

7. ALL SIZES ARE IN INCHES UNLESS OTHERWISE NOTED.

8. ALL WEIGHTS ARE IN POUNDS UNLESS OTHERWISE NOTED.

9. ALL VOLUMES ARE IN GALLONS UNLESS OTHERWISE NOTED.

10. ALL LENGTHS ARE IN FEET UNLESS OTHERWISE NOTED.

11. ALL AREAS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED.

12. ALL PERIMETERS ARE IN FEET UNLESS OTHERWISE NOTED.

13. ALL ANGLES ARE IN DEGREES UNLESS OTHERWISE NOTED.

14. ALL RADIUSES ARE IN FEET UNLESS OTHERWISE NOTED.

15. ALL DIAMETERS ARE IN FEET UNLESS OTHERWISE NOTED.

16. ALL THICKNESSES ARE IN INCHES UNLESS OTHERWISE NOTED.

17. ALL WEIGHTS ARE IN POUNDS UNLESS OTHERWISE NOTED.

18. ALL VOLUMES ARE IN GALLONS UNLESS OTHERWISE NOTED.

19. ALL LENGTHS ARE IN FEET UNLESS OTHERWISE NOTED.

20. ALL AREAS ARE IN SQUARE FEET UNLESS OTHERWISE NOTED.

21. ALL PERIMETERS ARE IN FEET UNLESS OTHERWISE NOTED.

22. ALL ANGLES ARE IN DEGREES UNLESS OTHERWISE NOTED.

23. ALL RADIUSES ARE IN FEET UNLESS OTHERWISE NOTED.

24. ALL DIAMETERS ARE IN FEET UNLESS OTHERWISE NOTED.

25. ALL THICKNESSES ARE IN INCHES UNLESS OTHERWISE NOTED.

MINIMUM SEPARATION DISTANCES

ITEM	DISTANCE
1. ALL DISTANCES	100 FT.
2. ALL DISTANCES	100 FT.
3. ALL DISTANCES	100 FT.
4. ALL DISTANCES	100 FT.
5. ALL DISTANCES	100 FT.
6. ALL DISTANCES	100 FT.
7. ALL DISTANCES	100 FT.
8. ALL DISTANCES	100 FT.
9. ALL DISTANCES	100 FT.
10. ALL DISTANCES	100 FT.
11. ALL DISTANCES	100 FT.
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16. ALL DISTANCES	100 FT.
17. ALL DISTANCES	100 FT.
18. ALL DISTANCES	100 FT.
19. ALL DISTANCES	100 FT.
20. ALL DISTANCES	100 FT.
21. ALL DISTANCES	100 FT.
22. ALL DISTANCES	100 FT.
23. ALL DISTANCES	100 FT.
24. ALL DISTANCES	100 FT.
25. ALL DISTANCES	100 FT.

LOWER SALMON VILLAGE WATER SYSTEM

Boise, Idaho

Focus Engineering

1000 N. 10th St. Suite 100
Boise, ID 83702
208.333.1000
www.focuseng.com

USA

SITE PLAN

C1.0

PROJECT NO. 08-12-07
DATE: 08-12-07
DRAWN BY: JLB



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ESTIMATED WATER DEMAND FOR THE DOMESTIC USE AT LOWER SALMON VILLAGE AND PARK
PGN, May 25, 2007

Currently and in future: 6 homes, public park restroom, and domestic use in the powerhouse.

Water will not be used for irrigation or powerhouse industrial/commercial purposes.

Irrigation, fire protection, and powerhouse cooling water is provided via a canal from Billingsley Creek.

Water Demand

Average Daily Demand per Home	ADD/home =	400	gpd/home
Number of Homes	N =	7	homes
Water Demand for Homes	ADD _{home} =	2,800	gpd
Public Restroom	ADD _{restroom} =	800	gpd
Total Average Daily Demand	ADD =	3,600	gpd
Maximum Daily Demand	MDD =	2*ADD	
	=	7,200	gpd
Coefficient for ERU Range	C =	1.0	
Factor Associated with ERU Range	F =	0.0	
Peak Hourly Demand	PHD =	(MDD/1440)*(C*N+F)+18	
	=	53	gpm
Peak Factor	F =	1.7	
Peak Design Flow	Q _{pk} =	90	gpm
		0.20	cfs

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Note: Peak factor reduced from 2 to 1.7 in light of absence of landscape irrigation at this site.
Landscape irrigation and fire flows provided by surface water supply to powerhouse.
Powerhouse domestic demand is accounted for as one "home".

Notes:

1. Maximum Daily Demand (MDD) Eq. 5-2 is referenced from Washington State Department of Health Water System Design Manual.

1. Peak Hourly Demand (PHD) Eq. 5-3 is referenced from Washington State Department of Health Water System Design Manual.

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Form 238-7
11/97 JGE

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

1. WELL TAG NO. D 0044486

DRILLING PERMIT NO. 847611

Other IDWR No. well #417596

2. OWNER:

Name Idaho Power Company

Address 905 D Justice Grade

City Hagerman State ID Zip 83332

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N		Twp. 7		North ☐	or	South ☒
W		Rge. 13		East ☒	or	West ☐
E		Sec. 11		1/4 NE 1/4 NW 1/4		
S		Gov't Lot		County Gooding		
		Lat: 42°50.401		Long: 114.54.083		
		Address of Well Site 902 D Justice Grade		City Hagerman		

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

Lt. Blk. 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

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			
sealant		70	1000 lbs	dry pour

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
8"	2	73	.322	steel	☒	☐	☒	☐

Length of Headpipe

Length of Tailpipe

9. PERFORATIONS/SCREENS:

☐ Perforations ☐ Screens
 Method Screen Type

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

70 ft. below ground Artesian pressure lb.

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

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

11. WELL TESTS:

Yield gal./min.	Drawdown	Pumping Level	Time
70+			

Water Temp. <85

Bottom hole temp. <85

Water Quality test or comments:

Depth first Water Encounter 14

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Water Y	N
12	0	11	boulders & gravel		
12	11	14	boulders & gravel	X	
12	14	72	brown clay		
12	72	74	brown medium black lava		
8	74	99	black lava		
8	99	102	broken black lava		
8	102	114	black lava		
8	114	118	medium hard black lava	X	
8	118	133	black lava		
8	133	142	soft broken lava	X	
8	142	185	black lava		
8	185	191	black lava		
8	191	196	soft broken & brown silt		
8	196	206	black lava		
8	206	212	soft broken & green talc	X	
8	212	221	black ash & talc		
8	221	236	black lava		
8	236	241	medium hard & green talc	X	
8	241	243	soft broken & talc	X	
8	243	246	medium hard		
8	246	277	black lava	X	
8	277	284	soft broken & talc	X	
8	284	292	black lava		
8	292	294	broken & talc	X	
8	294	305	black lava		

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AUG 17 2007

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Completed Depth 305 (Measurable)

Date: Started 7/10/2007

Completed 7/10/2007

13. DRILLER'S CERTIFICATION:

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

Company Name Eaton Drilling & pump Service, Inc.

Firm No. 26

Firm Official

Date 8/10/2007

and

Driller or Operator

Date 8/10/2007

(Sign once if Firm Official & Operator)

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