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March 3, 2004

<Address>Kettle, Doug-Hard Rock Drilling
2775 Howard St. #2, CdA. Id. 83815
Subject: Well Test well D0033129

Well Data:

Well Location:	Lancaster Ave & E Haden Lk.
Well Construction:	8" to 6" steel
Well Depth:	280'
Static Water Level:	240'
Test Pump Used:	50 GPM 5HP
Pipe Size:	N/A
Wire Size:	N/A
Liquid Level Controls:	N/A
Pitless:	N/A
Pump House:	N/A
Condition:	N/A
Pressure Tank Size:	N/A
Electrical Controls:	N/A

Date of Test:	2/13/04
Time:	11:00 am thru 1:00 pm

Summary:

This well will produce 50	gallons per minute over a 2-hour period.
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Clayton Raney
Service Manager
/djf

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. D0033429

Drilling Permit No:

Other IDWR No.

2. OWNER

Well Number:

Name KETTLE, DOUG-HARD ROCK DRILL 718

Address 2775 HOWARD STREET #2

City COEUR D'ALENE State ID Zip 83815

3. LOCATION OF WELL by legal description

sketch map location must agree with written location

N W E S	X	Twp. 51	☒ North or ☐ South
		Rge. 3	☐ East or ☒ West
		Sec. 4	1/4 SE 1/4 SW 1/4
		County KOOTENAI	
Lat:		Long:	
Address of Well Site LANCASTER AVE & E			
City HAYDEN LAKE			

(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	18	250 LBS	OVERBORE
NATIVE CLAY	18	65		

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 65Was drive shoe seal tested? ☐ Y ☒ N How?

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	35	275	.250	STEEL	☒	☐	☒	☐
8	2	65	.250	STEEL	☒	☐	☒	☐

Length of Headpipe Length of Tailpipe

9. PERFORATIONS/SCREENS

- ☒ Perforations Method TORCH CUT

- ☐ Screens Screen Type

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
265	275	1/8X6	30	6	STEEL	☒	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

240 ft. below ground Artesian pressure lb.

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

11. WELL TESTS:

- ☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
20			2HRS

Water Temp COLD Bottom Hole Temp SAME

Water Quality test or comments: GOOD

Depth first Water encountered 90

12. LITHOLOGIC LOG:(Describe repairs or abandonment)

					Water	
Bore Diam	From	To	Remarks: Lithology, Water Quality, Temperature	Y	N	
10	0	3	CLAYISH TOP SOIL WET	☐	☒	
10	3	12	CLAY BROWN HARD	☐	☒	
10	12	21	CLAY TAN YELLOWISH	☐	☒	
10	21	50	CLAY TAN	☐	☒	
10	50	65	CLAY DARK BROWN WET	☐	☒	
8	65	90	BASALT DARK GRAY	☐	☒	
8	90	95	BASALT GRAY BROKEN W/WAT	☒	☐	
8	95	150	BASALT BLACK HARD	☐	☒	
8	150	230	CLAY GREENISH BROW	☐	☒	
8	230	260	BASALT HARD	☐	☒	
8	260	280	BASALT BROKEN W/WATER	☒	☐	

Customer
COPYCompleted Depth 280 (Measurable)
Date: Started 2/9/04 Completed 2/11/04

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 H2O WellService, Inc. Firm No. 448

Firm Official Date 02/20/04

and

Supervisor or Operator Date 02/19/04

(Sign Once if Firm Official and Operator)

Louie Hanner

T51N
R3W Sec 4

SE SW

