

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-9557

Exam Date: 11/13/2008

1. Current Owner: ROCKY BEACH WATER DIST
PO BOX 126
SPIRIT LAKE ID 83869-0126
(208)623-6523
2. Accompanied by: Cynthia A. Kroetch
Phone No: 208-623-5130
Address: 31067 N. Nautical Loop
Relationship to Permit Holder: Member

3. SOURCETRIBUTARY

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 L3 SW¼SW¼ Sec. 6, Twp 53N, Rge 04W, B.M. KOOTENAI County

GROUND WATER L3 SW¼SW¼ Sec. 8, Twp 53N, Rge 04W, B.M. KOOTENAI County

Method of Determination: GPS

2.

PLACE OF USE: MUNICIPAL

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
53N 04W 8											X						L 3

Method of Determination:

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>
00005427	OK	7 1/2	OK	OK	OK
96-77-N-156	OK	7 1/2	OK	OK	OK
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

} See Attached

*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>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

2. Measurements:

See Attached

E. FLOW CALCULATIONS

Measured Method:

____ Additional Computation Sheets Attached

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:

Irrigation 51 acres $\times 3$ 153 AF	Domestic 32 homes $\times .6$ 19.2
$\begin{array}{r} 153 \\ + 19.2 \\ \hline 172.2 \text{ AF} \end{array}$	

$$.23 \text{ cfs} = 166.6 \text{ AF}$$

G. NARRATIVE/REMARKS/COMMENTS

THIS SYSTEM USES GROUNDWATER FOR MUNICIPAL USE. THE PERMIT IS FOR DOMESTIC AND IRRIGATION. DURING THE FIELD EXAM THE PERMIT HOLDER WANTED TO AMEND THE PERMIT TO MUNICIPAL USE. THERE ARE 2 POINTS OF DIVERSION. BOTH WELLS RUN A 7½ HP PUMP. THEY BOTH PUMP INTO A HOLDING TANK THEN THERE IS BOOSTER PUMPS THAT PUMP OUT TO THE SERVICE AREA.

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>
MUNICIPAL	01/01 to 12/31	0.230 CFS	166.60 AF
<u>Totals:</u>		0.230 CFS	166.60 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

Date

11-18-08

Reviewer

Date

12/10/08

PUMP EQUATIONS					
WATER RIGHT No.			95-9557 WELL #1		
	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q = $HP \cdot 8.8 \cdot \text{Eff}$	7.5	465	0.8	465	0
Q = 0.114 cfs 51.0 gpm					

PUMP EQUATIONS					
WATER RIGHT No.			95-9557 WELL #2		
	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q = $HP \cdot 8.8 \cdot \text{Eff}$	7.5	495	0.8	495	0
Q = 0.107 cfs 48.0 gpm					

$$\begin{array}{r}
 0.12 \\
 + 0.11 \\
 \hline
 0.23 \text{ cfs total}
 \end{array}$$

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

RECEIVED

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

CORRECTED COPY

1. WELL TAG NO. D0005427

DRILLING PERMIT N 96-98-N-0197-000

Oct 14 1998

Other IDWR No 95-9557

2. OWNER:

NORTHERN REGION
IDWR

Name Rocky Beach Water Dist

Address P O Box 849

City Spirit Lake

State ID

Zip 83869

3. LOCATION OF WELL by legal description:

N	Twp	53N	North	☒ or	South	☐
	Rge	04W	East	☐ or	West	☒
	Sec	08	1/4	SW	1/4	SW
			10 Ac	40 Ac	160 Ac	
Gov't Lot	County Kootenai					
Lat	Long					

Address of Well Site: (see next line)

95 to Spirit Lake Loop Road

City Spirit Lake

Lot _____ Blk _____

Sub. Name (see next line)

Rocky Beach Water District

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/Lbs	
Bentonite	0	40	20 sacks	pour in

Drive Shoe Used? ☐ Y ☒ N Shoe Depth(s) _____

Drive Shoe Seal Tested? ☐ Y ☒ N How? _____

8. CASING/LINER

Diam	From	To	Gauge	Material	Casing	Liner	Weld	Threaded
6"	1	499	0.025	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length Headpipe _____

Length Tailpipe _____

9. PERFORATIONS/SCREENS

☒ Perforations? Method air perforator

☐ Screens? Screen Type _____

From	To	Slot	Nmbr	Diam	Material	Casing	Liner
480	499	1"	300	1/16	Steel	☒	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL or ARTESIAN PRESSURE

460 ft. below ground. Artesian pressure _____ lb.

Depth flow encountered 460 ft. Describe access port or

control devices: Steel cap welded

11. WELL TESTS:

- ☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pump Level	Time
30+	100%	495	4 hrs.

Water Temp. _____ cold Bottom hole temp. _____ cold
Water Quality test or comments: (below) Depth first Water Encountered 460
clear cold, no smell

12. LITHOLOGIC LOG (Describe repairs or abandonment)

Bore Diam	From	To	Lithology, Water Quality and Temperature	Remarks	Water
10	0	8	Topsoil		☐ Y ☒ N
10	8	40	Sand & gravel - 3/8" minus		☐ Y ☒ N
10	40	250	Sand & gravel - 3/4" minus		☐ Y ☒ N
6	250	290	Sand & gravel - 3/8" minus		☐ Y ☒ N
6	290	300	Boulders		☐ Y ☒ N
6	300	445	Sand & gravel - 1/2" minus		☐ Y ☒ N
6	445	450	Boulder		☐ Y ☒ N
6	450	499	Sand & gravel - 1/2" minus		☒ Y ☐ N

Completed Depth 499 (Measurable)

Date: Started 9/30/98 Completed 10/6/98

13. DRILLERS CERTIFICATION

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

Firm Name United Drilling Inc. Firm No 414

Firm Official _____ Date 10/7/98

Supervisor or Operator Jason C. Beckham Date 10/7/98

FORWARD WHITE COPY TO WATER RESOURCES

53 N 4W 8

USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Water Resources

WELL DRILLER'S REPORT

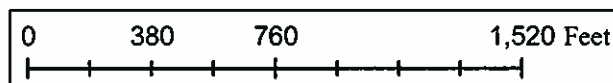
State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

1. WELL OWNER Name <u>GEORGE BROTT</u> Address <u>P.O. Box 144 SPIRIT LAKE WA-83869</u> Owner's Permit No. _____		7. WATER LEVEL Static water level <u>46.5</u> feet below land surface Flowing? ☐ Yes ☒ No G.P.M. flow _____ Temperature _____ ° F. Quality <u>Good</u> Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																																																																			
2. NATURE OF WORK <u>96-77-N-156</u> ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____		8. WELL TEST DATA ☒ Pump ☐ Bailer <u>None</u> Discharge G.P.M. <u>25</u> Draw Down <u>0</u> Hours Pumped <u>8 days</u>																																																																																			
3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type) _____ ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection		9. LITHOLOGIC LOG																																																																																			
4. METHOD DRILLED ☒ Cable ☒ Rotary ☐ Dug ☐ Other		<table border="1"><thead><tr><th rowspan="2">Hole Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td>8"</td><td>0</td><td>28'</td><td>BOULDERS</td><td></td><td>☒</td></tr><tr><td>8"</td><td>28'</td><td>329'</td><td>CLAY AND GRAVEL</td><td></td><td>☒</td></tr><tr><td></td><td></td><td></td><td>WITH SOME BOULDERS</td><td></td><td>☒</td></tr><tr><td>6"</td><td>329'</td><td>334'</td><td>HARD BOULDER</td><td></td><td>☒</td></tr><tr><td></td><td>334'</td><td>378'</td><td>GRAVEL AND CLAY</td><td></td><td>☒</td></tr><tr><td></td><td>378'</td><td>382'</td><td>BOULDERS</td><td></td><td>☒</td></tr><tr><td></td><td>382'</td><td>398'</td><td>CLAY + GRAVEL</td><td></td><td>☒</td></tr><tr><td></td><td>398'</td><td>430'</td><td>WITH BOULDERS</td><td></td><td>☒</td></tr><tr><td></td><td>430'</td><td>441'</td><td>GRAVEL + CLAY</td><td></td><td>☒</td></tr><tr><td></td><td>441'</td><td>473'</td><td>CLAY + GRAVEL</td><td></td><td>☒</td></tr><tr><td></td><td>473'</td><td>485'</td><td>BOULDERS</td><td></td><td>☒</td></tr><tr><td></td><td>485'</td><td>495'</td><td>PER GRAVEL</td><td></td><td>☒</td></tr></tbody></table> Well was drilled to 378' by BRAND X WATERWELL AND FROM 378' TO 495' BY ENTERPRISE DRILLING		Hole Diam.	Depth		Material	Water		From	To	Yes	No	8"	0	28'	BOULDERS		☒	8"	28'	329'	CLAY AND GRAVEL		☒				WITH SOME BOULDERS		☒	6"	329'	334'	HARD BOULDER		☒		334'	378'	GRAVEL AND CLAY		☒		378'	382'	BOULDERS		☒		382'	398'	CLAY + GRAVEL		☒		398'	430'	WITH BOULDERS		☒		430'	441'	GRAVEL + CLAY		☒		441'	473'	CLAY + GRAVEL		☒		473'	485'	BOULDERS		☒		485'	495'	PER GRAVEL		☒
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5. WELL CONSTRUCTION Diameter of hole <u>6 1/8"</u> inches Total depth <u>495</u> feet Casing schedule: ☒ Steel ☐ Concrete Thickness _____ inches Diameter _____ inches From _____ feet To _____ feet <u>250</u> inches <u>6</u> inches <u>1</u> feet <u>495</u> feet <u>250</u> inches <u>8</u> inches <u>0</u> feet <u>232</u> feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet Was casing drive shoe used? ☒ Yes ☐ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation _____ inches by _____ inches Number _____ From _____ To _____ _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>22</u> Material used in seal ☐ Cement grout ☒ Puddling clay ☐ Well cuttings Sealing procedure used ☐ Slurry pit ☒ Temporary surface casing ☐ Overbore to seal depth																																																																																					
6. LOCATION OF WELL Sketch map location must agree with written location. <u>96</u>  Subdivision Name _____ Lot No. _____ Block No. _____ County <u>Kootenai</u> <u>SW 1/4 Sec. 8 T. 53 N. 4 R. 1W</u>		10. Work started <u>Nov 1-1976</u> finished <u>DEC 1-1977</u>																																																																																			
		11. DRILLERS CERTIFICATION Firm Name <u>Brand X Water Wells</u> Firm No. <u>389</u> Address <u>Bathurst Id.</u> Date <u>12-15-77</u> Signed by (Firm Official) <u>Landon Cordon</u> and (Operator) <u>Landon Cordon</u>																																																																																			

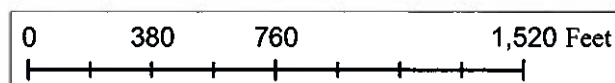
USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE COPY TO THE DEPARTMENT

95-9557



95-9557





PLACE OF USE MAP.JPG



SYSTEM.JPG



WELL #2 PUMP
INFORMATION.JPG



WELL # 1 PUMP
INFORMATION.JPG



WELL # 1.JPG

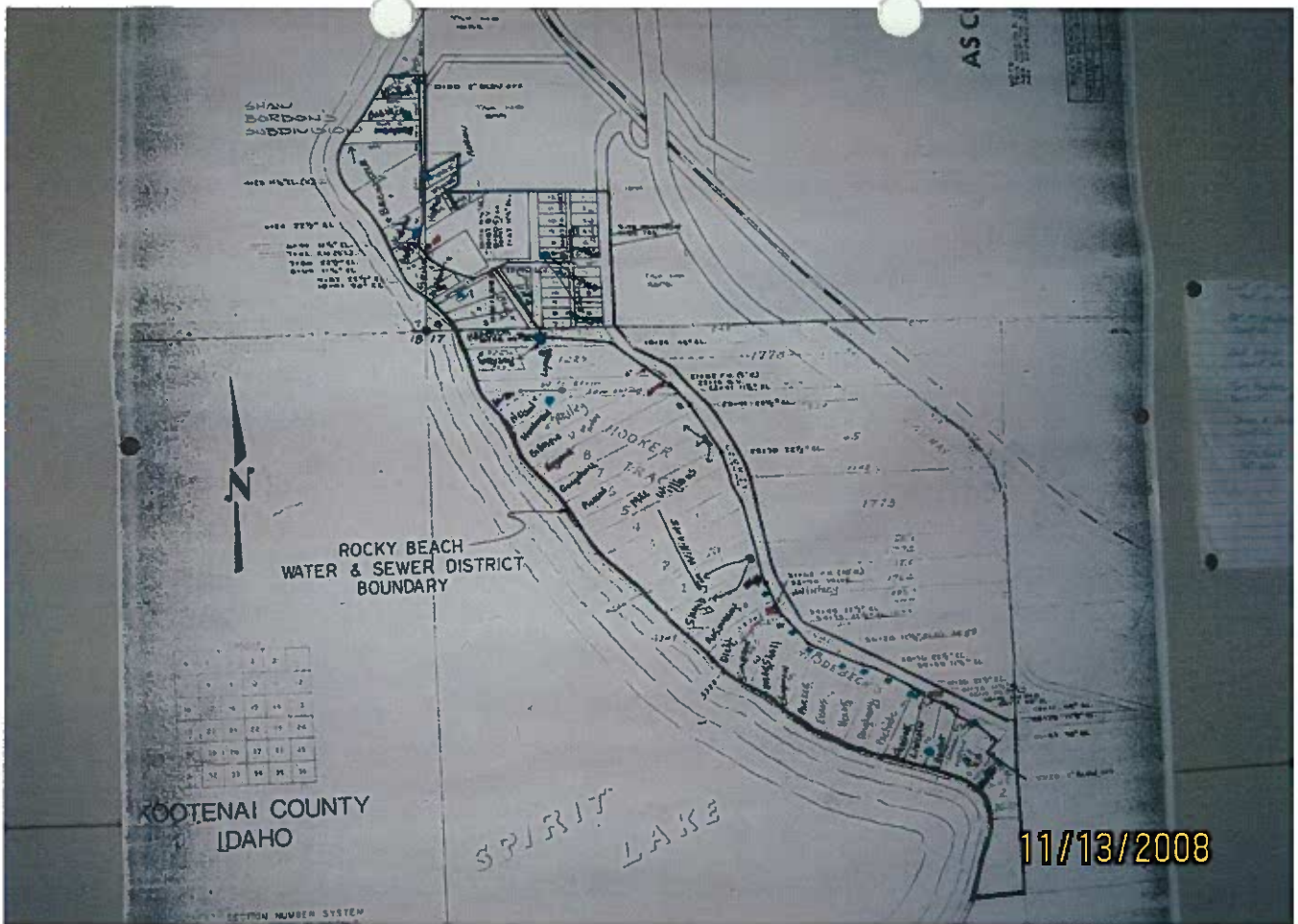


WELL # 2.JPG



WELL TAG FOR WELL #
1.JPG

95-9557



95-9557





11/13/2008

95-9557

BEFORE WORKING ON OR AROUND THIS WATER SYSTEM, DISCONNECTING POWER BEFORE WORKING ON OR AROUND THIS WATER SYSTEM. HAVE WORK PERFORMED BY TECHNICALLY QUALIFIED PERSONNEL COMPLYING WITH ALL GROUNDING AND CODE REQUIREMENTS.

THIS LABEL IDENTIFIES THE FRANKLIN SUBMERSIBLE MOTOR USED IN THIS WELL. PLEASE DISPLAY PROMINENTLY. A SUGGESTED LOCATION IS THE DISCONNECT BOX.

MODEL	2366019020	HP	7 1/2 KW	5.5	PH	3
VOLTS	230	RPM	3450		HZ	60
AMP	21.8	S.F. MAX. AMP	24.6			
SF	1.15	KVA CODE	H	CONT. DUTY		
MIN FLOW FT/SEC	0.5	CSA CERTIFIED				



Franklin Electric
Bluffton, Indiana 46714

MADE IN U.S.A.

155414101

11/13/2008



95-9557





95-9557