

Twp	Rge	Sec	NE				NW				SW				SE				
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>Totals</u>
48N	04W	7										X							

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>
00023492	U/K	3/4	U/K	U/K	U/K

*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:

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

Measured Method:

PUMP EQUATIONS					
WATER RIGHT No.			95-9029		
	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
$Q = \frac{HP \cdot 8.8 \cdot \text{Eff}}{H}$	0.75	594.0816327	0.8	490	45
Q = 0.009 cfs 4.0 gpm					

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:

$$.6 \text{ home} + .6 \text{ Irrigation} = 1.2 \text{ AF total}$$

G. NARRATIVE/REMARKS/COMMENTS

THIS SYSTEM USES GROUNDWATER FOR DOMESTIC USE. THE WELL HAS A IDWR TAG THE NUMBER IS D0022492. THE SYSTEM PULLS WATER UP TO A 3000 GALLON HOLDING TANK THEN GRAVITY FEEDS THE HOUSE AND LAWN IRRIGATION SYSTEM. THE GRAVITY FEED RUNS AT 5 GALLONS IN 15 SECONDS AND THE WELL FILLS THE HOLDING TANK AT 4 GALLONS PER MINUTE.

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	1.20 AF
<u>Totals:</u>		0.020 CFS	1.20 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 [Signature] Date 8-28-07

Reviewer [Signature] Date 9/4/7

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. **D0022492**

DRILLING PERMIT N WELL #1

Other IDWR No **784041**

2. OWNER:

Name **Randy Rolphe**

Address **11619 W Rockford Bay RD**

City **Coeur d'Alene** State **ID** Zip **83814**

3. LOCATION OF WELL by legal description:

N Twp **48N** North ☒ or South
Rge **04W** East or West ☒
Sec **07** 1/4 NE 1/4 SW 1/4
Gov't Lot _____ County **Kootenai**
Lat _____ Long _____
Address of Well Site: (see next line)

ROCKFORD BAY RD

Lot _____ Blk _____ Sub. Name (see next line)

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	8 Sacks	Pour in

Drive Shoe Used? ☒ Y ☐ N Shoe Depth(s) **230**

Drive Shoe Seal Tested? ☐ Y ☒ N How?

8. CASING/LINER

Diam	From	To	Gauge	Material	Casng	Liner	Weld	Thrded
6	+2	230	0.250	Steel	☒			☒
4	160	660	0.160	PVC		☒		

Length Headpipe _____ Length Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations? Method _____
☒ Screens? Screen Type **PVC**

From	To	Slot	Nmbr	Diam	Material	Casng	Liner
540	560	.020	1	4	PVC		☒
580	600	.020	1	4	PVC		☒
620	640	.020	1	4	PVC		☒

10. STATIC WATER LEVEL or ARTESIAN PRESSURE

1 ft. below ground. Artesian pressure _____ lb.
Depth flow encountered **250/490** ft. Describe access port or control devices: **Steel Cap Welded on**

11. WELL TESTS:

Pump	Bailer	☒ Air	Flowing Artesian
Yield gal./min.	Drawdown	Pump Level	Time
3-4 GPM	100%	659	1 Hour

Water Temp. _____ Cold Bottom hole temp. _____ Cold
Water Quality test or comments: (below) Depth first Water Encountered **250**
Clear, Cold, No Smell

12. LITHOLOGIC LOG (Describe repairs or abandonment)

Bore Diam	From	To	Remarks: Lithology, Water Quality and Temperature	Water
				Y N
8	0	3	Fill	☒
8	3	6	Clay Brown	☒
8	6	8	Boulder	☒
8	8	10	Wood	☒
8	10	14	Clay Brown	☒
8	14	18	Basalt Black	☒
8	18	62	Basalt Black Broken	☒
6	62	75	Basalt Black Hard	☒
6	75	80	Basalt Black Soft	☒
6	80	90	Clay Black Hard Pan	☒
6	90	95	Clay Brown & Gray	☒
6	95	106	Clay Brown	☒
6	106	116	Clay Orange	☒
6	116	125	Clay Brown	☒
6	125	210	Clay Gray, Beige W/Sand	☒
6		140	Clay Beige	☒
6	140	180	Clay Brown W/Sand	☒
6	180	230	Clay Dark Brown W/Some Sand	☒
6	230	290	Granite Brown, Green, White 2 gpm	☒
6	290	380	Black, White, Quartz Medium	☒
6	380	390	Green White Soft	☒
6	390	450	Purple Black & White Medium	☒
6	450	460	Green White Soft	☒
6	460	470	Purple Black White Medium	☒
6	470	505	White Quartz, Purple Black Med. 1-2 GPM	☒
6	505	545	Purple Black & White Medium	☒
6	545	560	Green & White Soft	☒
6	560	630	Purple Black White Medium	☒
6	630	660	Purple Black White Medium	☒

Completed Depth **660** (Measurable)
Date: Started **7/12/02** Completed **7/16/02**

13. DRILLERS CERTIFICATION

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

Firm **United Drilling Inc.** Firm No **414**
Name _____
Firm Official **Jason C. Beckham** Date **7/15/02**
and _____
Supervisor or Operator **Jason C. Beckham** Date **7/15/02**

FORWARD WHITE COPY TO WATER RESOURCES

95-9284



0.05 0 0.05 0.1 Miles

-  Kootenai taxlots
-  GCDB48N04W GCDB
-  Right POD
-  Pou.shp





CURRENT WELL



CURRENT WELL TAG



HOLDING TANK



MEASUREMENT



OLD WELL WENT DRY



PLACE OF USE 1



PLACE OF USE 2



SYSTEM

95-9284



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95-9284

