

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-09022

Exam Date: 4/27/2016

1. Current Owner:

MIKE VINCENT 15555 BLACKROCK RANCH RD COEUR D ALENE ID 83814 (208)664-5514

And/Or

BARBARA VINCENT 15555 BLACKROCK RANCH RD COEUR D ALENE ID 83814 (208)664-5514

2. Accompanied by: Mike and Barbara

3. SOURCE: GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Claim 95-16971

2. Other water rights with the same point-of-diversion: Claim 95-16971

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER NW¼SW¼ Sec. 3, Twp 48N, Rge 04W, B.M. KOOTENAI County

GROUND WATER L7 (SE¼SW¼) Sec. 3, Twp 48N, Rge 04W, B.M. KOOTENAI County

Method of Determination: GPS and maps. POD locations at 47° 31.841, 116° 50.802 (95-93-N-114-000)
47° 31.702, 116° 50.630 (D0040419)

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
48N	04W	3										X							

PLACE OF USE: STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
48N	04W	3										X							

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
48N	04W	3										3.0							3.0

Total Acres: 3

Method of Determination: GPS and maps

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.

X

X Aerial Photo Attached (required for irrigation of 10+ acres).

X Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0040419	FRANKLIN	1.5			
95-93-N-114-000	FRANKLIN	5			

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: 5 GALLON BUCKET TEST PERFORMED ON WELL D0040419. 5 GALLONS FILLED IN 10 SECONDS. 60 SECONDS / 10 SECONDS * 5 GALLONS = 30 GPM.

E. FLOW CALCULATIONS

Measured Method: UNABLE TO PERFORM FLOW MEASUREMENT ON WELL 95-93-N-114-000. THEORETICAL PUMPING EQUATION ESTIMATES FLOW RATE

_____ Additional Computation Sheets Attached

$$(1.5 \text{ HP})(8.8)(0.8) / (587 + (35 \text{ PSI} \times 2.3087)) = 0.016 \text{ CFS OR } 7.1 \text{ GPM}$$

WHEN 30 GPM IS ADDED TO 7.1 GPM STEM CAPACITY IS 37.1 GPM OR 0.08 CFS.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3 \text{ AC} \times 3 \text{ AF} = 9 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.08 \times 246 \times 1.9835 = 39.0 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 9 \text{ AF}$$

2. Volume Calculations for Other Uses: DOMESTIC USE FOR 1 HOME = 0.6 AF

$$5 \text{ HORSES} \times 12 \text{ GPD} \times 365 \text{ DAYS} / 325,850 \text{ GAL/AF} = 0.1 \text{ AF}$$

G. NARRATIVE/REMARKS/COMMENTS

FIELD EXAM SHOWED APPLICANT HAD 2 WELLS, 1ST WELL DRILLED IN 1993 THAT THEORETICAL PUMPING EQUATION ESTIMATES PRODUCES 7.1 GPM AND 2ND WELL DRILLED IN 2005 THAT WAS ABLE TO PRODUCE 30 GPM PER 5 GALLON BUCKET TEST. THE 2ND WELL WILL HAVE TO BE AMENDED AT TIME OF LICENSING BECAUSE IT WAS LOCATED IN DIFFERENT QQ. LICENSE WILL BE ISSUED AT 0.08 CFS FOR THE IRRIGATION OF 3 ACRES OF LAND WHEN WATER IS AVAILABLE, STOCKWATER FOR 5 HORSES AND THE DOMESTIC USE IN 1 HOME.

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>
IRRIGATION	03/15 to 11/15	0.08 CFS	9.0 AF
STOCKWATER	01/01 to 12/31	0.02 CFS	0.1 AF
DOMESTIC	01/01 to 12/31	0.04 CFS	0.6 AF
<u>Totals:</u>		0.080 CFS	9.70 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 ☒ None

I. AUTHENTICATION

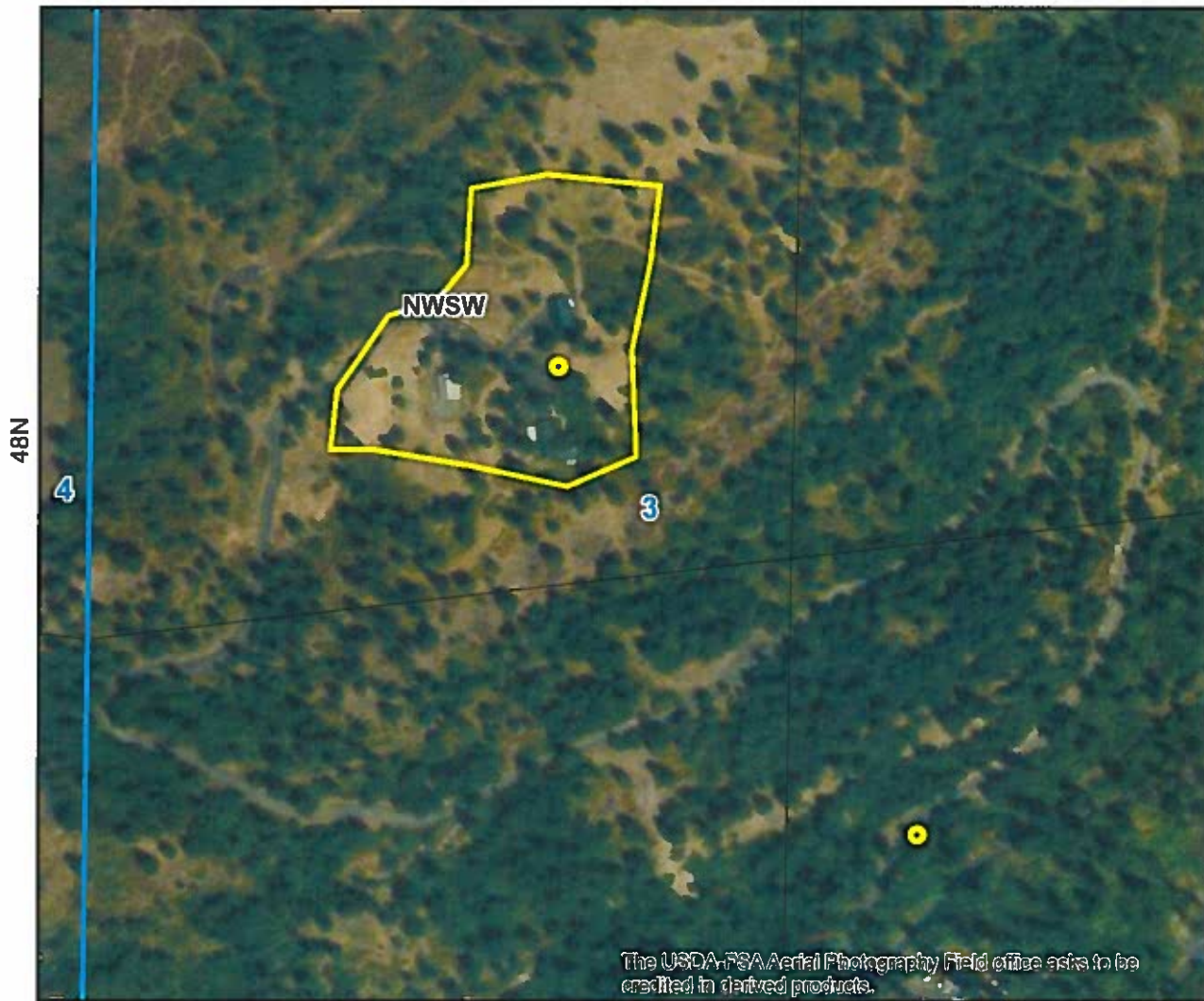
Field Examiner's Name Adam F. L. Smith Date 6-7-2016

Reviewer Morgan Case Date 6/22/2016

State of Idaho
Department of Water Resources
Water Right License
95-9022

DOMESTIC, IRRIGATION, and STOCKWATER

04W



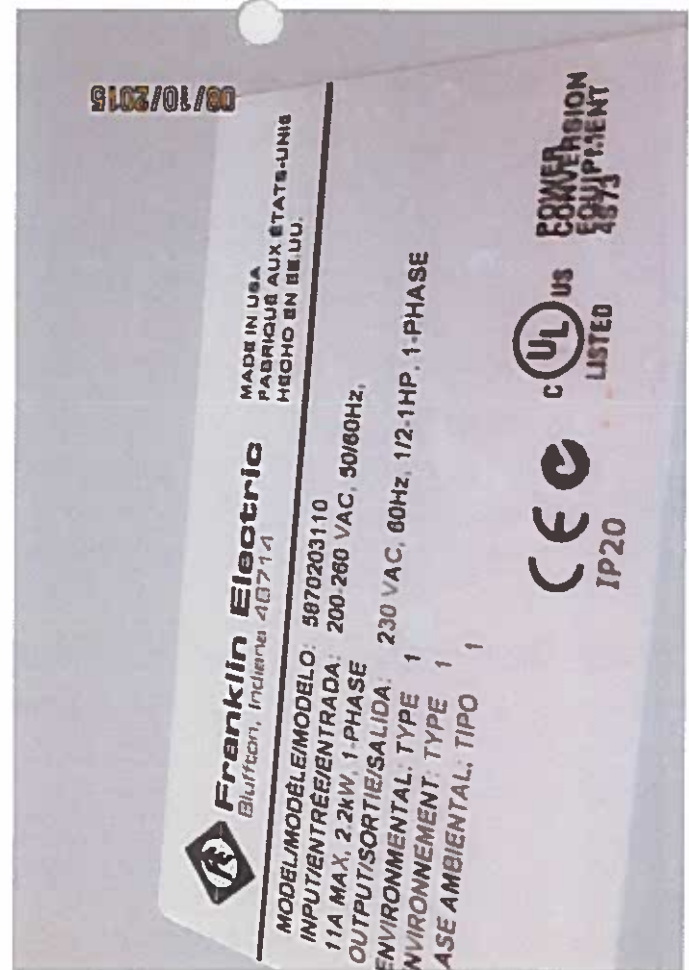
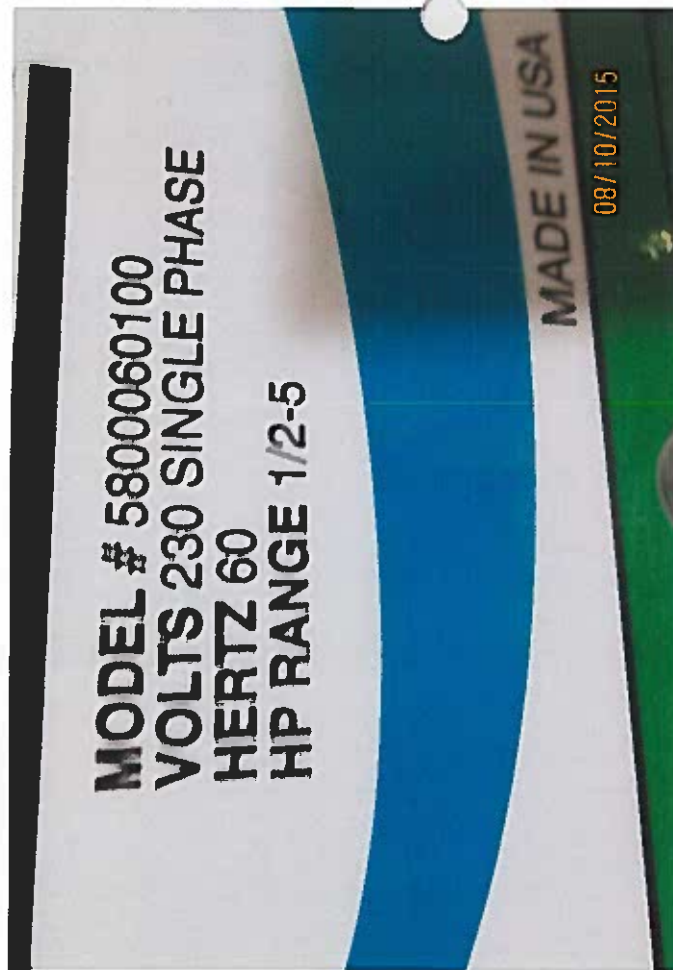
-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections

0 0.0425 0.085 0.17 Miles

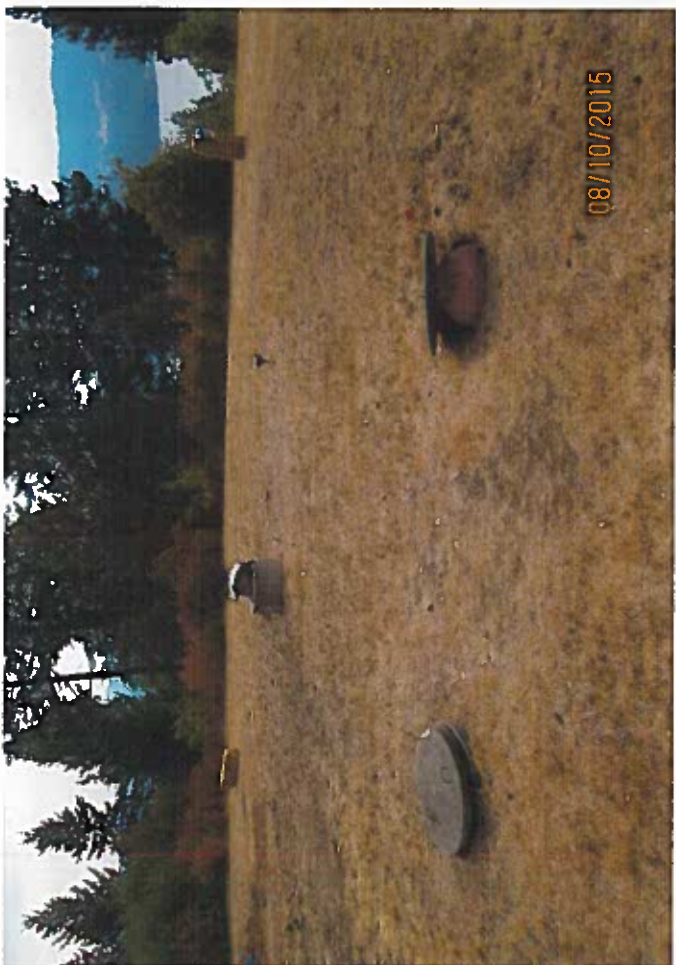




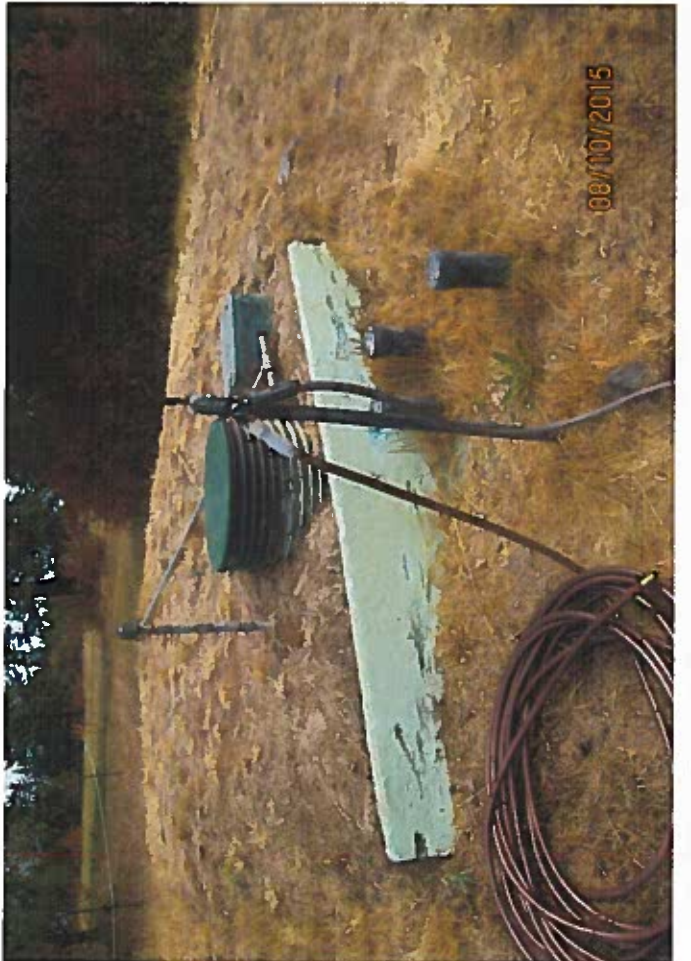
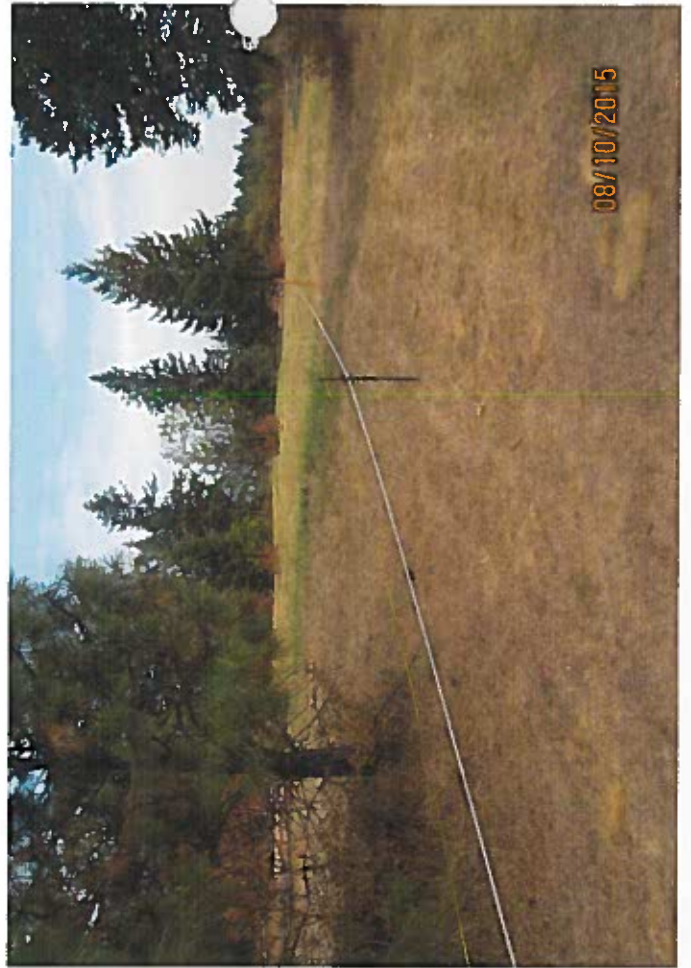
95-9022



95-9022



95-9022



95-9022



PUMP EQUATIONS WATER RIGHT	
No.	95-9022

		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	$\frac{HP \cdot 8.8 \cdot \text{Eff}}{H}$	1.5	$\frac{667.952}{4}$	0.8	587	35
Q =		0.016 cfs	7.1 gpm			

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTState 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.**RECEIVED**
DEPARTMENT OF
BALLPOINT PEN
JUL 16 1993
NORTHERN REGION
IDWR

1. WELL OWNER Name <u>MIKE VINCENT</u> Address <u>3779 S HAYDEN LAKE RD HAYDEN LAKE ID</u> Drilling Permit No. <u>95-93-N-114-000</u> Water Right Permit No. _____	7. WATER LEVEL Static water level <u>360</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ °F. Quality _____ Describe artesian or temperature zones below.																																																																																																																																																																																								
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Well diameter increase ☐ Modification ☐ Abandoned (describe abandonment or modification procedures such as liners, screen, materials, plug depths, etc. in lithologic log, section 9.)	8. WELL TEST DATA ☐ Pump ☐ Bailer ☒ Air ☐ Other _____ <table border="1" style="width:100%"><thead><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr></thead><tbody><tr><td>6 to 8 GPM</td><td></td><td></td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>	Discharge G.P.M.	Pumping Level	Hours Pumped	6 to 8 GPM																																																																																																																																																																																				
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3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Monitor ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)	9. LITHOLOGIC LOG 80325 <table border="1" style="width:100%"><thead><tr><th rowspan="2">Bore 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>10</td><td>0</td><td>6</td><td>TOPSOIL</td><td></td><td>X</td></tr><tr><td>10</td><td>6</td><td>14</td><td>CLAY W/BASALT GRAVEL</td><td></td><td>X</td></tr><tr><td>10</td><td>14</td><td>18</td><td>BASALT GRAY HARD</td><td></td><td>X</td></tr><tr><td>8</td><td>18</td><td>25</td><td>BASALT GRAY HARD</td><td></td><td>X</td></tr><tr><td>8</td><td>25</td><td>49</td><td>BASALT BROKEN W/BROWN</td><td></td><td>X</td></tr><tr><td>8</td><td>49</td><td>177</td><td>BASALT FRACTURED MED</td><td></td><td>X</td></tr><tr><td>8</td><td>177</td><td>186</td><td>BASALT /CLAY W/GRAVEL BROWN</td><td></td><td>X</td></tr><tr><td>3</td><td>186</td><td>218</td><td>CLAY YELLOWISH TAN</td><td></td><td>X</td></tr><tr><td>8</td><td>218</td><td>228</td><td>CLAY TAN W/QUARTZ SAND</td><td></td><td>X</td></tr><tr><td>3</td><td>228</td><td>245</td><td>CLAY BROWN HARD</td><td></td><td>X</td></tr><tr><td>3</td><td>245</td><td>252</td><td>CLAY TAN /YELLOW/BROWN</td><td></td><td>X</td></tr><tr><td>3</td><td>252</td><td>278</td><td>BASALT BROKEN SOFT W/CLAY</td><td></td><td>X</td></tr><tr><td>6</td><td>278</td><td>347</td><td>BASALT DARK GRAY MED</td><td></td><td>X</td></tr><tr><td>6</td><td>347</td><td>350</td><td>BASALT BROWN</td><td></td><td>X</td></tr><tr><td>6</td><td>350</td><td>365</td><td>CLAY BROWNISH TAN MED</td><td></td><td>X</td></tr><tr><td>6</td><td>365</td><td>382</td><td>CLAY SILTY DARK BROWN HARD</td><td></td><td>X</td></tr><tr><td>6</td><td>382</td><td>395</td><td>CLAY BROWN W/WEED & QUARTZ SAND</td><td></td><td>X</td></tr><tr><td>6</td><td>395</td><td>406</td><td>CLAY GRAY SOFT</td><td></td><td>X</td></tr><tr><td>6</td><td>406</td><td>430</td><td>CLAY BLUE W/QUARTZ SAND</td><td></td><td>X</td></tr><tr><td>6</td><td>430</td><td>456</td><td>GRANITE GREEN & WHITE W/QUARTZ</td><td></td><td>X</td></tr><tr><td>6</td><td>456</td><td>470</td><td>GRANITE WHITE & GREEN W/WATER</td><td>X</td><td></td></tr><tr><td>6</td><td>470</td><td>475</td><td>GRANITE BLACK HARD</td><td></td><td>X</td></tr><tr><td>6</td><td>475</td><td>478</td><td>GRANITE WHITE & GREEN SOFT</td><td></td><td>X</td></tr><tr><td>6</td><td>478</td><td>497</td><td>GRANITE BLACK & WHITE W/GREEN</td><td></td><td>X</td></tr><tr><td>6</td><td>497</td><td>508</td><td>GRANITE GREEN & BLACK HARD</td><td></td><td>X</td></tr><tr><td>6</td><td>508</td><td>555</td><td>GRANITE BLACK & WHITE MED</td><td></td><td>X</td></tr><tr><td>6</td><td>555</td><td>562</td><td>GRANITE WHITE & GREEN W/WATER</td><td>X</td><td></td></tr><tr><td>6</td><td>562</td><td>585</td><td>GRANITE BLACK & WHITE MED</td><td></td><td>X</td></tr><tr><td>6</td><td>585</td><td>603</td><td>GRANITE WHITE & BLACK MED</td><td></td><td>X</td></tr></tbody></table> NOTE: SET FORMATION PACKER AT 430'	Bore Diam.	Depth		Material	Water		From	To	Yes	No	10	0	6	TOPSOIL		X	10	6	14	CLAY W/BASALT GRAVEL		X	10	14	18	BASALT GRAY HARD		X	8	18	25	BASALT GRAY HARD		X	8	25	49	BASALT BROKEN W/BROWN		X	8	49	177	BASALT FRACTURED MED		X	8	177	186	BASALT /CLAY W/GRAVEL BROWN		X	3	186	218	CLAY YELLOWISH TAN		X	8	218	228	CLAY TAN W/QUARTZ SAND		X	3	228	245	CLAY BROWN HARD		X	3	245	252	CLAY TAN /YELLOW/BROWN		X	3	252	278	BASALT BROKEN SOFT W/CLAY		X	6	278	347	BASALT DARK GRAY MED		X	6	347	350	BASALT BROWN		X	6	350	365	CLAY BROWNISH TAN MED		X	6	365	382	CLAY SILTY DARK BROWN HARD		X	6	382	395	CLAY BROWN W/WEED & QUARTZ SAND		X	6	395	406	CLAY GRAY SOFT		X	6	406	430	CLAY BLUE W/QUARTZ SAND		X	6	430	456	GRANITE GREEN & WHITE W/QUARTZ		X	6	456	470	GRANITE WHITE & GREEN W/WATER	X		6	470	475	GRANITE BLACK HARD		X	6	475	478	GRANITE WHITE & GREEN SOFT		X	6	478	497	GRANITE BLACK & WHITE W/GREEN		X	6	497	508	GRANITE GREEN & BLACK HARD		X	6	508	555	GRANITE BLACK & WHITE MED		X	6	555	562	GRANITE WHITE & GREEN W/WATER	X		6	562	585	GRANITE BLACK & WHITE MED		X	6	585	603	GRANITE WHITE & BLACK MED		X
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4. METHOD DRILLED ☒ Rotary ☒ Air ☐ Auger ☐ Reverse rotary ☐ Cable ☐ Mud ☐ Other _____ (backhoe, hydraulic, etc.)	10. Work started <u>06/25/93</u> finished <u>06/30/93</u>																																																																																																																																																																																								
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <table border="0" style="width:100%"><tr><td>Thickness</td><td>Diameter</td><td>From</td><td>To</td></tr><tr><td><u>.250</u> inches</td><td><u>6</u> inches</td><td><u>3</u> feet</td><td><u>282</u> feet</td></tr><tr><td><u>1.60</u> inches</td><td><u>4</u> inches</td><td><u>-5</u> feet</td><td><u>603</u> feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr></table> Was casing drive shoe used? ☒ Yes ☐ No Was a packer or seal used? ☒ Yes ☐ No packer 430' Perforated? ☒ skill saw ☐ Yes ☐ No How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun Size of perforation? <u>1/8</u> inches by <u>4</u> inches <table border="0" style="width:100%"><tr><td>Number</td><td>From</td><td>To</td></tr><tr><td><u>140</u></td><td><u>560</u> feet</td><td><u>600</u> feet</td></tr><tr><td>_____</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____</td><td>_____ feet</td><td>_____ feet</td></tr></table> Well screen installed? ☐ Yes ☒ No Manufacturer _____ Type _____ Top Packer or Headpipe _____ Bottom of Tailpipe _____ 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>60+</u> Material used in seal: ☐ Cement grout ☒ Bentonite ☐ Puddling clay ☐ _____ Sealing procedure used: ☒ Slurry pit ☐ Temp. surface casing ☒ Overbore to seal depth Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld ☐ Cemented between strata Describe access port _____	Thickness	Diameter	From	To	<u>.250</u> inches	<u>6</u> inches	<u>3</u> feet	<u>282</u> feet	<u>1.60</u> inches	<u>4</u> inches	<u>-5</u> feet	<u>603</u> feet	_____ inches	_____ inches	_____ feet	_____ feet	Number	From	To	<u>140</u>	<u>560</u> feet	<u>600</u> feet	_____	_____ feet	_____ feet	_____	_____ feet	_____ feet	11. DRILLER'S CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>H2O WELL SVC INC</u> Firm No. <u>#448</u> Address <u>502 W HAYDEN AVE</u> Date <u>06/30/93</u> Signed by Drilling Supervisor <u>[Signature]</u> and _____ (Operator) <u>[Signature]</u> (if different than the Drilling Supervisor)																																																																																																																																																												
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6. LOCATION OF WELL Sketch map location must agree with written location. Subdivision Name _____ Lot No. _____ Block No. _____ County <u>KOOTENAI</u> Address of Well Site <u>BLACK ROCK BAY</u> (give at least name of road) NW 1/4 SW 1/4 Sec. <u>3</u> T. <u>48</u> N ☒ or S ☐ R. <u>4</u> E ☐ or W ☒	USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT																																																																																																																																																																																								

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. D0040419

DRILLING PERMIT N 834517

Other IDWR No _____

2. OWNER:

Name **Mike & Barbara Vincent**

Address **15555 Black Rock Ranch Road**

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 03		1/4 NW 1/4 SW 1/4	
Gov't Lot _____		County Kootenai	
Lat _____		Long _____	

Address of Well Site: (see next line)
15555 Black Rock Ranch RD well #2 City **Coeur d'Alene**
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	-18	6 Sacks	Pour In
Granular				

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

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

8. CASING/LINER

Diam	From	To	Gauge	Material	Casng	Liner	Weld	Thrded
6"	+3	-219	0.250	Steel	☒	☐	☒	☐
4"	-190	-370	0.200	PVC	☐	☒	☒	☐
					☐	☐	☐	☐

Length Headpipe _____ Length Tailpipe _____

9. PERFORATIONS/SCREENS

☒ Perforations? Method Drilled _____

☐ Screens? Screen Type _____

From	To	Slot	Nmbr	Diam	Material	Casng	Liner
290	350	3/8"	200	4"	PVC	☐	☒
						☐	☐
						☐	☐

10. STATIC WATER LEVEL or ARTESIAN PRESSURE

190 ft. below ground. Artesian pressure _____ lb.

Depth flow encountered **210** ft. Describe access port or

control devices: **Steel Cap Welded**

11. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pump Level	Time
15	100%	340	1HR

Water Temp. _____ Cold Bottom hole temp. _____ Cold

Water Quality test or comments: (below) Depth first Water Encountered **210**

Cold, Slight Color, No Smell

12. LITHOLOGIC LOG (Describe repairs or abandonment)

Bore Diam	From	To	Remarks: Lithology, Water Quality and Temperature	Water Y	N
8	0	4	Clay Brown	☐	☒
8	4	25	Basalt & Clay Mix Sand	☐	☒
8	25	55	Basalt Broken	☐	☒
8	55	70	Clay Brown	☐	☒
8	70	121	Clay Brown/Tan	☐	☒
8	121	208	Basalt Black Medium	☐	☒
8	208	215	Basalt Broken	☒	☐
8	215	330	Basalt Black Medium	☐	☒
8	330	335	Clay Brown/ Gray	☐	☒
8	335	350	Clay & Decomposed Granite Blue Gray & Black & White Soft	☐	☒
8	350	380	Granite Blue-Black-Purple Medium	☐	☒

RECEIVED
JUL 21 2005
IDWR/North

Completed Depth **370** (Measurable)

Date: Started **6/30/05** Completed **7/6/05**

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 Tom M. Valdez Date **7/7/05**

Supervisor or Operator **Cody Puls** Date **7/7/05**

48N 4W 3