

78968

RECEIVED

DEC 04 2013

IDWR / NORTH

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

Ident. No. 95-16656

1. Name of applicant(s) Scott Broder Phone 561 322 9660
Name connector (check one): ☐ and ☐ or ☐ and/or
Mailing address: 3830 E. Lookout Drive City Coeur d'Alene
State ID _____ Zip 83815 Email: scott7827@gmail.com
2. Source of water supply Groundwater which is a tributary of _____
3. Location of point(s) of diversion:

Twp	Rge	Sec	Govt Lot	1/4	1/4	1/4	County	Source	Local name or tag #
51N	3W	4			NW	SE	Kootenai	Groundwater	D0061205
51N	3W	4			NW	SE	Kootenai	Groundwater	D0013926

4. Water will be used for the following purposes:

Amount 0.13 for Domestic purposes from 1/1 to 12/31 (both dates inclusive)
(cfs or acre-feet per year)

Amount 0.12 for Irrigation purposes from 3/15 to 11/15 (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. 3 HP Grundfos submersible pump in well
Well pumps to storage and distribution system

b. Height of storage dam _____ feet; active reservoir capacity _____ acre-feet; total reservoir capacity _____ acre-feet. If the reservoir will be filled more than once each year, describe the refill plan in item 11.
For dams 10 feet or more in height OR reservoirs with a total storage capacity of 50 acre-feet or more, submit a separate Application for Construction or Enlargement of a New or Existing Dam. Application required? ☐ Yes ☐ No

c. Proposed well diameter is 6 inches; proposed depth of well is 360 feet.

d. Is ground water with a temperature of greater than 85°F being sought? ☐ Yes ☒ No

e. If well is already drilled, when? _____; drilling firm United Crown Pump and Drilling/United Drilling;
Well was drilled for (well owner) Scott Broder/Steve Atkinson; Drilling Permit No. D0061205/D0013926.

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

a. Hydropower; show total feet of head and proposed capacity in kW. _____

b. Stockwatering; list number and kind of livestock. _____

c. Municipal; show name of municipality or the applicant's qualifications as a municipal provider. _____

d. Domestic; show number of households 8 homes

e. Other; describe fully. _____

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8. Description of place of use:

- a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
b. 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	
51N	3W	4														D			
																4			4

Total number of acres to be irrigated: 4

9. 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? Domestic service includes 1/2 acre of lawn and or garden per residence

10. a. Who owns the property at the point of diversion? Scott Broder

b. Who owns the land to be irrigated or place of use? Scott Broder

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing: _____

11. Describe your proposal in narrative form, and provide additional explanation for any of the items above. Attach additional pages if necessary. Application is for groundwater supply for 8 lots/homes to be subdivided and sold in the near future.

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

13. **MAP OF PROPOSED PROJECT REQUIRED** - Attach an 8½" x 11" 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

Print Name (and title, if applicable)

Signature of Applicant

James S. De Smet PE, PG/Consultant for owner
Print Name (and title, if applicable)

For Department Use:

Received by db Date 12/4/13 Time _____ Preliminary check by _____
Fee \$ 100.00 Receipted by NS Receipt No. 1030183 Date 10/23/13

95-16656



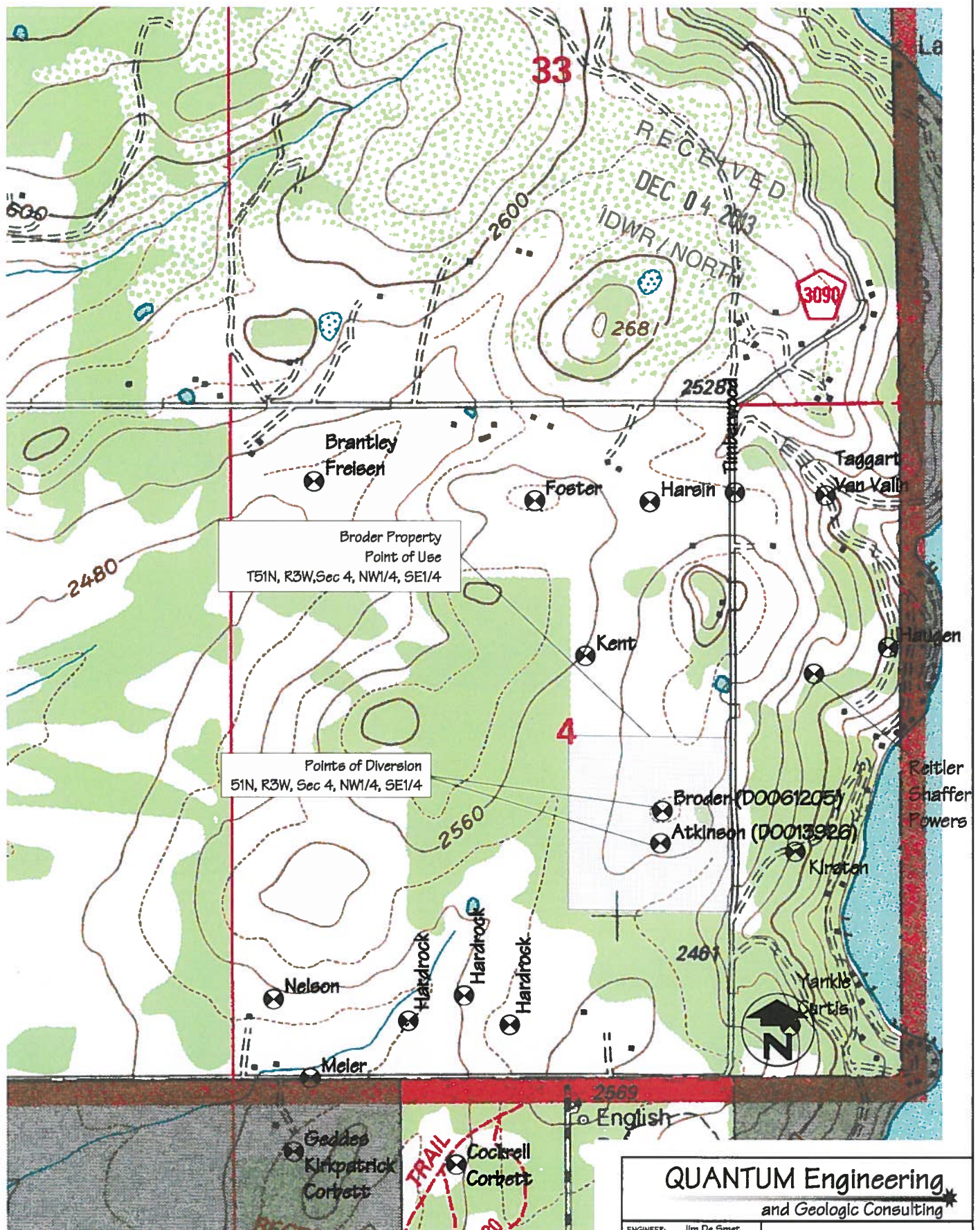
Legend

-  Working_POD
-  Working_POU
-  QQ
-  Taxlots

0 0.0275 0.055 0.11 Miles



95-16656



QUANTUM Engineering
and Geologic Consulting

ENGINEER: Jim De Smet

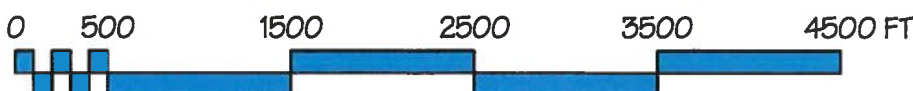
DRAWN BY: Jim De Smet

DATE: 10/15/13

SCALE: 1"=1000'

SHEET NO.:

Broder Property
T51N, R3W, Sec 4
Kootenai County, Idaho



NOV-22-2000
11/97
IDWR/North

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

95-16656
Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 1/4 1/4
Lat: : : Long: : :
IDWR/NORTH

1. WELL TAG NO. D0013926

DRILLING PERMIT N

Other IDWR No

767250

2. OWNER:

Name **Steve Atkinson**

Address 700 Ironwood Drive, #214

City Coeur d'Alene

State ID

Zip 83814

3. LOCATION OF WELL by legal description:

N	Twp 51N	North ☒ or South ☐
	Rge 03W	East ☐ or West ☒
	Sec 04	1/4 NE 1/4 SE 1/4
		10 Ac 40 Ac 160 Ac
Gov't Lot	County Kootenai	
Lat	Long	

Address of Well Site: (see next line)

Lancaster past hard left on left half way up hill

City

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	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	Thrded
6	2	-183	0.250	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length Headpipe

Length Tailpipe

9. PERFORATIONS/SCREENS

☒ Perforations? Method air perforator
☐ Screens? Screen Type

From	To	Slot	Nmbr	Diam	Material	Casing	Liner
160	180	1"	800		Steel	☒	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL or ARTESIAN PRESSURE

70 ft. below ground. Artesian pressure lb.

Depth flow encountered 170 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
9-9.5	100%	180	2 hrs

Water Temp.

cold

Bottom hole temp.

cold

Water Quality test or comments: (below) Depth first Water Encountered 170

clear, no smell

12. LITHOLOGIC LOG (Describe repairs or abandonment)

Bore Diam	From	To	Remarks: Lithology, Water Quality and Temperature	Water	
				Y	N
8	0	1	Topsoil	☐	☒
8	1	40	Clay - orange	☐	☒
8	40	43	Clay - orange with shale gravel	☐	☒
8	43	50	Clay - orange	☐	☒
8	50	70	Clay - beige	☐	☒
8	70	78	Clay - brown/green	☐	☒
8	78	88	Basalt & clay - brown - soft	☐	☒
8	88	165	Basalt - black - hard	☐	☒
8	165	170	Basalt - black - soft	☒	☐
8	170	183	Clay - black/brown	☐	☒

Completed Depth 183 (Measurable)

Date: Started 11/16/00 Completed 11/17/00

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 *Tim M. Williams*

Date 11/21/00

and

Supervisor or Operator Jason C. Beckham

Date 11/21/00

FORWARD WHITE COPY TO WATER RESOURCES

356

51N 3W 4



State of Idaho

DEPARTMENT OF WATER RESOURCES

Northern Region, 7600 N. Mineral Drive, Suite 100 • Coeur d'Alene, Idaho 83815

Phone: (208) 762-2800 • Fax: (208) 762-2819 • Web Site: www.idwr.idaho.gov

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

November 4, 2013

James S De Smet, P.E., P.G.
Quantum Engineering
South 2641 Silver Beach Loop
Coeur d'Alene, ID 83814

Application For Permit Scott Broder

Dear Jim:

The Idaho Department of Water Resources received one well upgrade for Scott Broder's application, however, since there are two wells, there needs to be two well upgrade fees (see attached letter dated October 30, 2013). Please submit another check in the amount of \$125.00 payable to IDWR within the next 30 days so as not to delay processing.

If you have any questions, feel free to give me call.

Thank you.

Sincerely,

Keith E Franklin
Program Manager Northern Region

COPY



State of Idaho

DEPARTMENT OF WATER RESOURCES

Northern Region, 7600 N. Mineral Drive, Suite 100 • Coeur d'Alene, Idaho 83815

Phone: (208) 762-2800 • Fax: (208) 762-2819 • Web Site: www.idwr.idaho.gov

October 30, 2013

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

James S. De Smet, P.E., P.G.
Quantum Engineering
South 2641 Silver Beach Loop
Coeur d'Alene, Idaho 83814

COPY

Re: Application For Permit to Appropriate the Public Waters of the State of Idaho
Scott Broder

Dear Jim,

The Idaho Department of Water Resources is returning the above mentioned application for the following reasons.

The application is requesting domestic use for 8 homes with ½ acre of irrigation per home. An irrigation component must be added to the application. Therefore, on line item #4 the maximum diversion rate for 4 acres of irrigation would be 0.12 cfs, with a corresponding season of use from 3/15 to 11/15. That would bring the total diversion rate to 0.22 cfs or you could round to 0.2 cfs (90 gpm) on line item #5. Four acres of irrigation would also need to be added to line item #8 (b) in the NW of the SE.

The two wells proposed for the points of diversion have a combined yield of 29.5 gpm according to well logs. That would equate to 3.7 gpm per home. As you know the yield test at the time of construction can be quite different from an actual pump test. The production capability of these wells for a development is suspect since the yield figures are quite low for 8 homes. Past experience has shown that in shallow basalt formations that are not directly connected to a surface water source have a limited or no recharge capability. Mining of the available water supply generally occurs which can lead to water availability problems in the future. Before processing begins, the Department would feel more comfortable with a pump test on both wells to determine their true yield and sustainability. Are you planning to do a pump test? Is there a design for storage?

Also, since the two wells were constructed as single family domestics, there will need to be an additional upgrade fee of \$125.00 per well or \$250.00. When the corrected application and additional information is returned, please include a check in the amount of \$250.00 made payable to IDWR for the additional well upgrade fees.

If you have any questions, feel free to contact me at this office.

Sincerely,

Keith E Franklin, Program Manager Northern Region

95-16656

m.k.

6994217

772-7867

Pump Test Log

Client: BrockerDate: 10/2/13Page 1 of 2

Well ID: _____

Obs Well: _____

Well Tag#: D0001205

WH Elevation: _____

Cor. Factor: _____

Pump: 3 HP Grundfos 16gpmBtm of Pump: 341Pipe Col. Dia: 1 1/4" STDProduction Pump or Test: Production pump.2 check valves

pumping well

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DWR/NORTH

Date	Time	Delta T	SWL	Q	Comments
10/2/13	8:49 AM		278.7	12 gpm	
	8:50	0.25			START TEST
		0.50	277.7		well chlorinated.
		0.75			clean/clear
		1.0	275.0		
		1.5	276.0		
		2.0	277.6		
		3.0	279.95		
		4.0	281.4		
		5.0	281.95		
		6.0	282.4		
		7.0	282.6		
		8.0	282.65		
		9.0	282.75		
		10.0	282.75		
		12.0	282.80		
		14.0	282.85		
		16.0	282.90		
		20.0	282.95		
		25.0	282.90		
		30.0	282.95		
		40.0	282.95	12 gpm	12 gpm
		45.0	278.70		
		50.0	278.0		
		55.0	277.95		
	9:50	60.0	277.85		
	10:00	70.0	277.75		$C_2(\text{free}) = 0.00 \text{ ppm}$
	10:30	100	277.6		
	11:11	141	277.5		
	12:11	207	277.55		
	1:15	271	277.5		
	2:05	321	277.5		
	3:07	383	277.5		
	4:00	436	277.5		
	4:55	491	277.8		
	6:03	559	277.8		
	7:00	616	277.8		
	8:00	676	277.8		
	9:00	736	277.8		
	10:00	796	277.8		
10/2/13	11:00 PM	856	277.8		
10/2/13	12:00 PM	916	277.8		
10/3/13	1:00 AM	976	277.8		

Pump Test Log

Client: Knoder.

Date: 10/21/13

Page 2 of 2

Well ID:

Obs Well:

Well Tag#: D0061205

WH Elevation:

Cor. Factor:

Pump:

Btm of Pump:

Pipe Col. Dia: _____ Production _____

Production Pump or Test:[illegible]

Pump Test Log

Client:

Bruder

Date: 10/31/13

Page 1 of 1

Well ID:

Obs Well:

Well Tag#:

170061205

WH Elevation:

Cor. Factor:

Pump:

Btm of Pump:

Pipe Col. Dia:

Production Pump or Test:

Recovery.

[illegible]

QUANTUM Engineering

and Geologic Consulting*

November 1, 2013

Kristina Keating
Panhandle Health District
8500 N. Atlas Rd.
Hayden, ID 83835

Re: Broder Subdivision (Patriot View Estates)
Correspondence #N304.01

Dear Kristina:

Quantum has performed a new source capacity evaluation for the Scott Broder property (also known as Patriot View Estates) located on Lancaster Road north of Hayden Lake, Idaho. The property consist of approximately 40 acres and is to be subdivided into 8-lots. A site vicinity map is attached.

The property is served by two wells, named Broder (D0061205) and Atkinson (D0013926). Logs for these wells are attached.

Wells in a ½ mile radius around the subject property were also reviewed and located using the geographical information system available at the Idaho Department of Water Resources (IDWR). Wells for township 51N, R3W, Section 4 and the north portion of Section 9 were downloaded and evaluated. In general, these wells revealed water in fractured basalt and basalt interbeds. Flow from the wells varied from 0-100 gpm, with the majority of wells producing 5-20 gpm. Most dry or low producing wells were located on the far east of Section 4 or in Section 9. There was very little evidence of deepening of wells, hydrofracturing of wells or redrilling of wells, suggesting stable water tables in the area. Locations of surrounding wells are plotted on the attached site plan. Copies of the surrounding well logs are available upon request, but were too voluminous to attach to this report.

Atkinson Well

The Atkinson well was completed on 11/16/2000 and originally produced 9-9.5 gpm according to the drilling log. The well obtains water from a soft basalt zone at 165-170 feet bgs. The well was lined with 6" steel casing to 183 feet bgs and perforated with 1" slots at 160-180 feet bgs to accept water.

This well was pump tested in September 2012 and was found to produce only 1.5 gpm. Since the well was inactive for 12 years, it has likely that the well may need redevelopment with a drill rig.

It was decided that a new well would be drilled to obtain water rather than rehabilitate the existing well. However, the Atkinson well is being included as a point of diversion in the application for water rights with IDWR. This well is then available for development and use during the 5-year demonstration period for beneficial use with IDWR.

Broder Well

The Broder well was completed on 9/26/2012. This well obtains water from a soft basalt zone at 265-360 feet bgs. This well was airlift tested by the driller and estimated at 20 gpm. This well was cased with 6" steel casing to 81 feet bgs and then lined with 5" steel casing to 360 feet bgs. The 5" steel casing was perforated with 1/8" slots at 340-360 feet bgs.

Broder Pump Test

A 24-hour pump test was performed on the Broder well on 10/2/2013 by Quantum Engineering and United Crown Pump and Drilling. The pump test was started at 15 gpm and then reduced to 12-gpm for 24-hours of stabilized drawdown. Drawdown stabilized at approximately 7.1-7.4 feet.

The pump test was stopped at 1546 minutes (25.7 hours) of pumping and recovery was recorded. Recovery was 90% complete in approximately 1.5 minutes. Pump test data was analyzed using the Cooper-Jacob straight-line method and estimated a transmissivity of 52.4 ft²/day. Pump test data is attached for your review.

The Atkinson well was monitored during the pump test and found to have no observable drawdown from the pump test. It appears that the two wells derive water from different elevations and are in different aquifers. As such, simultaneous diversions would not be considered multiple wells in a well field. Future development of the Atkinson well would require separate pump testing and separate water quality testing.

Design Considerations

Based on a maximum daily demand of 1500 gpd/connection, the system will require 12,000 gpd. Source capacity for the Broder well is 17,280 gpd. This water system will require either central storage or individual storage at the lot. The most cost effective approach is to install individual 3,000-gallon storage reservoirs that are filled from the well by an individual float control. Each residence then utilizes an individual booster pump and pressure tank to control flow and pressure to the home.

As with any new water system, it is recommended that water association bylaws with water conservation measures be created to manage and monitor usage of the water system. Typical water conservation measures include limiting total lawn and garden area to ½ acre per residence, odd/even watering strategies, natural landscape vegetation and automatic sprinklers with water sensors.

Water Quality Testing

Samples were collected from the Broder well during the latter part of the pump test, placed on ice and transported to the laboratory for testing. The sample meets all Phase II and Phase IV primary drinking water standards. The samples met all of the secondary drinking water standards with the exception of iron and manganese. Iron was identified at 4.24 mg/L compared to the secondary standard of 0.30 mg/L. Manganese was identified at 0.0645 mg/L compared to the secondary standard of 0.05 mg/L. These secondary drinking water contaminants present aesthetic issues (rust, discoloration of water and staining of plumbing fixtures), but do not pose a direct health threat to users. Individual treatment is probably the most cost effective method for iron removal.

A sample for bacteria was also collected during the pump test. This sample revealed that coliform bacteria were absent from the well.

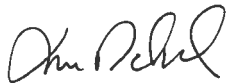
Summary

The Broder well is capable of meeting 145% of the maximum daily demand of the system. Drawdown in the well was a maximum of 12-13 feet at 15 gpm and approximately 7.4 feet at 12 gpm. Drawdown stabilized quickly during the pump test and recovery was almost immediate upon shutdown. These are both indicators of a stable, productive well.

Centralized or individual storage will be necessary to meet instantaneous demands on the system. The water meets all of the primary and secondary drinking water standards with the exception of iron and manganese. Individual treatment will be the best option if the individual intends to install iron removal.

If you have any further questions or need any additional information, please feel free to call.

Sincerely,



James S. De Smet, PE, PG

Cc:

Scott Broder
Rich Agueros, United Crown Pump and Drilling
Rand Wichman, Rand Wichman Planning, LLC
Scott MacArthur, H2 Engineering and Surveying

Form 11/97
NOV-22-2000
IDWR/North

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. **D0013926**

DRILLING PERMIT N _____

Other IDWR No **767250**

2. OWNER:

Name **Steve Atkinson**

Address **700 Ironwood Drive, #214**

City **Coeur d'Alene**

State ID _____

Zip **83814**

3. LOCATION OF WELL by legal description:

N		Twp	51N	North	☒ or	South	☐
W		Rge	03W	East	☐ or	West	☒
E		Sec	04	1/4 NE 1/4 SE 1/4			
S		Gov't Lot	10 Ac	40 Ac	160 Ac		
		County	Kootenai				
		Lat	Long				

Address of Well Site: (see next line)
City _____
Lancaster past hard left on left half way up hill
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	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	Thrded
8	2	-183	0.250	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length Headpipe _____ Length Tailpipe _____

9. PERFORATIONS/SCREENS

☒ Perforations? Method air perforator

☐ Screens? Screen Type _____

From	To	Slot	Nmbr	Diam	Material	Casing	Liner
160	180	1"	500		Steel	☒	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL or ARTESIAN PRESSURE

70 ft. below ground. Artesian pressure _____ lb.

Depth flow encountered **170** 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
9-9.5	100%	180	2 hrs

Water Temp. _____ cold

Bottom hole temp. _____ cold

Water Quality test or comments: (below) Depth first Water Encountered **170**

clear, no smell

12. LITHOLOGIC LOG (Describe repairs or abandonment)

Bore	From	To	Remarks:	Water	
Diam			Lithology, Water Quality and Temperature	Y	N
8	0	1	Topsoil	☐	☒
8	1	40	Clay - orange	☐	☒
8	40	43	Clay - orange with shale gravel	☐	☒
8	43	50	Clay - orange	☐	☒
8	50	70	Clay - beige	☐	☒
8	70	78	Clay - brown/green	☐	☒
8	78	88	Basalt & clay - brown - soft	☐	☒
8	88	165	Basalt - black - hard	☐	☒
8	165	170	Basalt - black - soft	☒	☐
8	170	183	Clay - black/brown	☐	☒

Completed Depth **183** (Measurable)

Date: Started **11/16/00** Completed **11/17/00**

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 _____ Date **11/21/00**

Firm Official **Tim M. Williams** and _____

Supervisor or Operator **Jason C. Beckham** Date **11/21/00**

FORWARD WHITE COPY TO WATER RESOURCES

51N 3W 4

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D 0061205

Drilling Permit No. 8045105

Water right or injection well # _____

2. OWNER

Name Scott Broder

Address 3380 East Lookout Drive

City Coeur d'Alene State Id Zip 83815

3. WELL LOCATION:

Twp. 51 North ☒ or South ☐ Rge. 03 East ☐ or West ☒

Sec. 04 10 acres 1/4 NW 1/4 SE 1/4 160 acres

Gov't Lot _____ County Kootenai

Lat. 47° 47.616 (Deg. and Decimal minutes)

Long. 116° 42.463 (Deg. and Decimal minutes)

East side of Hayden Lake Road Past Deep

Address of Well Site Shadow

City Hayden

Lot _____ Blk. _____ Sub. Name _____

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation ☐ Thermal ☐ Injection

☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Replacement well ☐ Modify existing well

☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES

Seal material	From (ft)	To (ft)	Quantity (lbs or ft)	Placement method/procedure
Bentonite	0	62	1800/lbs	Dry pour
Granular				

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
6	2	81	.250	Steel	☒	☐	☐	☒
5	66	360	.258	Steel	☒	☐	☐	☒

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 81

9. PERFORATIONS/SCREENS:

Perforations ☒ Y ☐ N Method Torch cut

Manufactured screen ☐ Y ☒ N Type _____

Method of installation _____

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
340	360	1/8x12	20	5	Steel	.258

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☒ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft)	Placement method

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) _____

Describe control device Steel Cap Welded

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 270 Static water level (ft) 270

Water temp. (°F) _____ Bottom hole temp. (°F) _____

Describe access port 3/4 Plug

Well test: _____ Test method: _____

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Air	Flowing artesian
N/A	20	2hrs	☐	☐	☒	☐

Water Quality test or comments: cold, no smell

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water Y N
10	0	1	topsoil	X
10	1	11	clay brown firm	X
10	11	30	clay tan/yellow shale gravels	X
10	30	33	clay orange firm	X
10	33	38	clay beige firm	X
10	38	40	clay orange firm	X
10	40	46	clay beige firm	X
10	46	56	clay orange firm	X
10	56	66	clay brown firm	X
10	66	71	clay brown with fine sands	Z
10	71	78	clay brown firm	X
10	78	81	basalt black with brown clay	X
6	81	169	basalt black firm	X
6	169	171	clay black firm	X
6	171	209	clay brown firm	X
6	209	230	clay brown firm	X
6	230	240	clay grey firm	X
6	240	265	clay brown/black firm	X
6	265	360	basalt black soft	X

Completed Depth (Measurable) 360

Date: Started 9/26/12 Completed 10/04/12

14. DRILLER'S CERTIFICATION

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

Company Name United Crown Pump & Drilling Co. No. 636

*Principal Driller Jason C Beckham Date 10/05/12

*Driller _____ Date 10-5-12

*Operator II _____ Date _____

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.

UNITED CROWN PUMP & DRILLING

3125 W Hayden Ave. Hayden ID 83835

Office (800) 682-0641 (TUS) 772-7867

51N 03W 04

Data Set: C:\Users\Jim DeSmet\Desktop\Broder\Broder.aqt
Title: Broder Pump Test
Date: 10/09/13
Time: 07:11:54

PROJECT INFORMATION

Company: Quantum Engineering
Client: Scott Broder
Project: N304
Location: T51,N3W, Sec 4
Test Date: 10/2/13
Test Well: D0061205

AQUIFER DATA

Saturated Thickness: 20. ft
Anisotropy Ratio (Kz/Kr): 1.

PUMPING WELL DATA

No. of pumping wells: 1

Pumping Well No. 1: Broder

X Location: 0. ft
Y Location: 0. ft

Casing Radius: 0.5 ft
Well Radius: 0.5 ft

Fully Penetrating Well

No. of pumping periods: 65

<u>Pumping Period Data</u>			
<u>Time (min)</u>	<u>Rate (gal/min)</u>	<u>Time (min)</u>	<u>Rate (gal/min)</u>
0.	15.	559.	12.
0.5	15.	616.	12.
1.	15.	676.	12.
1.5	15.	736.	12.
2.	15.	796.	12.
3.	15.	856.	12.
4.	15.	916.	12.
5.	15.	976.	12.
6.	15.	1036.	12.
7.	15.	1096.	12.
8.	15.	1156.	12.
9.	15.	1216.	12.
10.	15.	1306.	12.
12.	15.	1336.	12.
14.	15.	1396.	12.
16.	15.	1456.	12.
20.	15.	1516.	12.

<u>Time (min)</u>	<u>Rate (gal/min)</u>	<u>Time (min)</u>	<u>Rate (gal/min)</u>
25.	15.	1546.	0.
30.	15.	1546.5	0.
40.	12.	1547.	0.
45.	12.	1547.5	0.
50.	12.	1548.	0.
55.	12.	1549.	0.
60.	12.	1550.	0.
70.	12.	1551.	0.
100.	12.	1552.	0.
147.	12.	1553.	0.
207.	12.	1554.	0.
271.	12.	1555.	0.
321.	12.	1556.	0.
383.	12.	1558.	0.
436.	12.	1561.	0.
491.	12.		

OBSERVATION WELL DATA

No. of observation wells: 1

Observation Well No. 1: Broder

X Location: 0. ft

Y Location: 0. ft

Radial distance from Broder: 0. ft

Fully Penetrating Well

No. of Observations: 64

<u>Observation Data</u>			
<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
0.5	1.	559.	7.1
1.	4.3	616.	7.1
1.5	5.3	676.	7.1
2.	6.9	736.	7.1
3.	9.25	796.	7.1
4.	10.7	856.	7.1
5.	11.25	916.	7.1
6.	11.7	976.	7.1
7.	11.9	1036.	7.1
8.	11.95	1096.	7.1
9.	12.05	1156.	7.1
10.	12.05	1216.	7.1
12.	12.1	1306.	6.8
14.	12.15	1336.	7.1
16.	12.2	1396.	7.1
20.	12.25	1456.	7.3
25.	12.2	1516.	7.4
30.	12.25	1546.	7.4
40.	12.25	1546.5	5.1

<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
45.	8.	1547.	2.8
50.	7.3	1547.5	-1.7
55.	7.25	1548.	-2.5
60.	7.15	1549.	-3.4
70.	7.05	1550.	-3.45
100.	6.9	1551.	-3.6
147.	6.8	1552.	-3.65
207.	6.85	1553.	-3.65
271.	6.8	1554.	-3.65
321.	6.8	1555.	-3.68
383.	6.8	1556.	-3.68
436.	6.8	1558.	-3.69
491.	7.1	1561.	-3.673

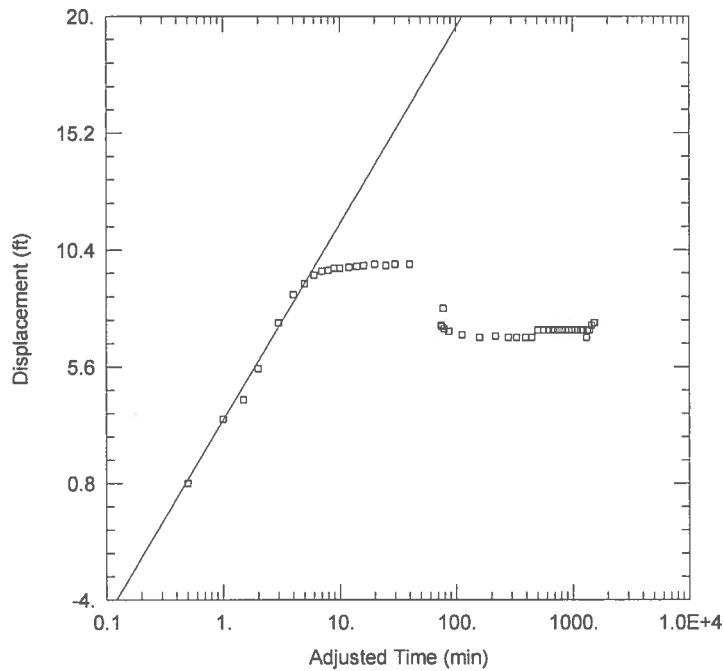
SOLUTION

Pumping Test
 Aquifer Model: Confined
 Solution Method: Cooper-Jacob

VISUAL ESTIMATION RESULTSEstimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
T	52.44	ft ² /day
S	0.1252	

$K = T/b = 2.622 \text{ ft/day}$ (0.0009249 cm/sec)
 $S_s = S/b = 0.006261 \text{ 1/ft}$



BRODER PUMP TEST

Data Set: C:\Users\Jim DeSmet\Desktop\Broder\Broder.aqt

Date: 10/09/13

Time: 07:10:49

PROJECT INFORMATION

Company: Quantum Engineering

Client: Scott Broder

Project: N304

Location: T51,N3W, Sec 4

Test Well: D0061205

Test Date: 10/2/13

AQUIFER DATA

Saturated Thickness: 20. ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
Broder	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
□ Broder	0	0

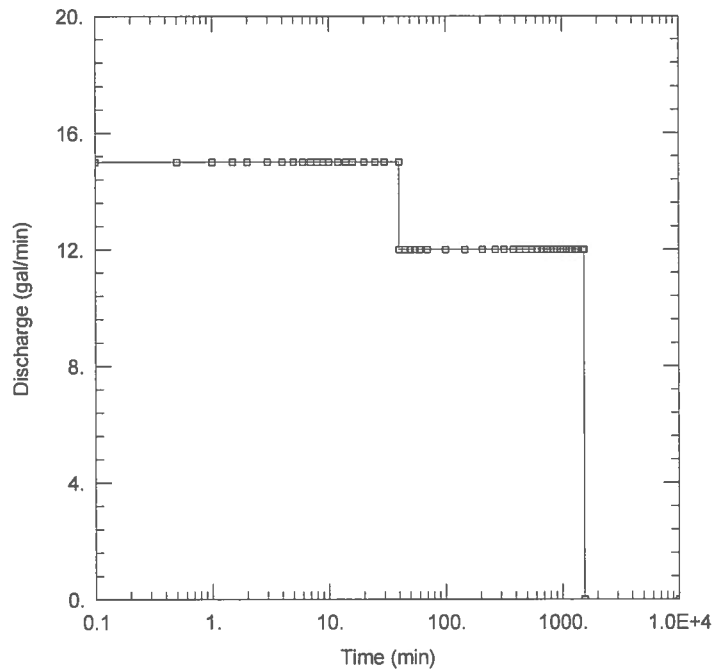
SOLUTION

Aquifer Model: Confined

Solution Method: Cooper-Jacob

T = 52.44 ft²/day

S = 0.1252



BRODER PUMP TEST

Data Set: C:\Users\Jim DeSmet\Desktop\Broder\Broder.aqt

Date: 10/09/13

Time: 07:11:21

PROJECT INFORMATION

Company: Quantum Engineering

Client: Scott Broder

Project: N304

Location: T51,N3W, Sec 4

Test Well: D0061205

Test Date: 10/2/13

AQUIFER DATA

Saturated Thickness: 20 ft

Anisotropy Ratio (K_z/K_r): 1

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
Broder	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
Broder	0	0

SOLUTION

Aquifer Model: Confined

Solution Method: Cooper-Jacob

$T = 52.44$ ft²/day

$S = 0.1252$

LAB FEDERAL ID#		LAB SAMPLE NUMBER	
ID00013		131002034-001	
DATE RECEIVED		DATE REPORTED BY LAB	
10/2/2013		10/22/2013	
COMPLIANCE SAMPLE: NO		REPLACEMENT SAMPLE: NO	
COLLECTION DATE		COLLECTION TIME	
10/2/2013		10:00 AM	
SAMPLE TYPE			
PWS #			
PWS NAME: QUANTUM ENGINEERING			
SAMPLING POINT/LOCATION		TAG #/FACILITY ID	
BRODER WELL HEAD		D0061205	
CONTACT NAME		CONTACT PHONE	
QUANTUM		(208) 765-2308	



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Public Drinking Water System Inorganic Chemical (IOC) Analysis Report

FRDS	Contaminant	Result	Units	MCL	MDL	Method	Analysis Date	Analyst	Qualifier
Primary IOCs									
Phase II									
1010	Barium	0.0588	mg/L	2	0.001	EPA 200.8	10/17/2013	KEA	
1015	Cadmium	ND	mg/L	0.005	0.001	EPA 200.8	10/17/2013	KEA	
1020	Chromium	0.00192	mg/L	0.1	0.001	EPA 200.8	10/17/2013	KEA	
1035	Mercury	ND	mg/L	0.002	0.0001	EPA 200.8	10/17/2013	KEA	
1038	Ti(NO ₂ /NO ₃)	ND	mg/L	10	0.1	EPA 300.0	10/2/2013	WOZ	
1040	Nitrate	ND	mg/L	10	0.1	EPA 300.0	10/2/2013	WOZ	
1041	Nitrite	ND	mg/L	1	0.1	EPA 300.0	10/2/2013	WOZ	
1045	Selenium	ND	mg/L	0.05	0.001	EPA 200.8	10/17/2013	KEA	
Phase V									
1036	Nickel	0.00272	mg/L		0.001	EPA 200.8	10/17/2013	KEA	
1074	Antimony	ND	mg/L	0.006	0.001	EPA 200.8	10/17/2013	KEA	
1075	Beryllium	ND	mg/L	0.004	0.0003	EPA 200.8	10/17/2013	KEA	
1085	Thallium	ND	mg/L	0.002	0.001	EPA 200.8	10/17/2013	KEA	
Other IOCs									
1005	Arsenic	ND	mg/L	0.01	0.001	EPA 200.8	10/17/2013	KEA	
1025	Fluoride	0.298	mg/L	4	0.1	EPA 300.0	10/2/2013	WOZ	
1052	Sodium	8.34	mg/L		0.1	EPA 200.7	10/8/2013	ETL	
Secondary IOCs (optional)									
1002	Aluminum	0.0445	mg/L	0.2	0.01	EPA 200.8	10/17/2013	KEA	M1
1003	Ammonia/N	0.111	mg/L		0.05	SM4500NH3C	10/2/2013	KAS	
1016	Calcium	18.1	mg/L		0.1	EPA 200.8	10/16/2013	KEA	
1017	Chloride	0.867	mg/L	250	0.1	EPA 300.0	10/2/2013	WOZ	
1022	Copper	0.00255	mg/L	1.3	0.001	EPA 200.8	10/17/2013	KEA	
1027	Sulfide(HS)	ND	mg/L		0.05	SM4500S2F	10/3/2013	MJL	
1028	Iron	4.24	mg/L	0.3	0.02	EPA 200.7	10/8/2013	ETL	
1030	Lead	ND	mg/L	0.015	0.001	EPA 200.8	10/17/2013	KEA	
1031	Magnesium	15.8	mg/L		0.1	EPA 200.8	10/16/2013	KEA	
1032	Manganese	0.0645	mg/L	0.05	0.001	EPA 200.8	10/17/2013	KEA	
1042	Potassium	3.08	mg/L		0.1	EPA 200.7	10/8/2013	ETL	

Comments:

Certifications held by Anatek Labs ID: EPA ID00013; AZ 0701, CO ID00013, FL(NELAP) E87893, ID ID00013, IN C-ID-01, KY 90142, MT CERT0028, NM ID00013, OR ID200001-002, WA C595
 Certifications held by Anatek Labs WA: EPA WA00169, ID WA00169, WA C585, MT Cert0095

Tuesday, October 22, 2013

Page 1 of 2

LAB FEDERAL ID#		LAB SAMPLE NUMBER	
ID00013		131002034-001	
DATE RECEIVED		DATE REPORTED BY LAB	
10/2/2013		10/22/2013	
COMPLIANCE SAMPLE NO		REPLACEMENT SAMPLE NO	
COLLECTION DATE		COLLECTION TIME	
10/2/2013		10:00 AM	
SAMPLE TYPE			
PWS #	PWS NAME		
	QUANTUM ENGINEERING		
SAMPLING POINT/LOCATION		TAG #/FACILITY ID	
BRODER WELL HEAD		D0061205	
CONTACT NAME		CONTACT PHONE	
QUANTUM		(208) 765-2308	



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Public Drinking Water System Inorganic Chemical (IOC) Analysis Report

FRDS	Contaminant	Result	Units	MCL	MDL	Method	Analysis Date	Analyst	Qualifier
1049	Silicon	30.0	mg/L		0.1	EPA 200.7	10/8/2013	ETL	
1049	Silica (as SiO2)	64.2	mg/L		0.1	EPA 200.7	10/8/2013	ETL	
1050	Silver	ND	mg/L	0.1	0.001	EPA 200.8	10/17/2013	KEA	
1055	Sulfate	11.5	mg/L	250	0.1	EPA 300.0	10/2/2013	WOZ	
1095	Zinc	0.0880	mg/L	5	0.001	EPA 200.8	10/17/2013	KEA	
1905	Color(Cu)	35	color units	15	5	EPA 110.2	10/8/2013	APM	
1915	Hardness (CaCO3)	110	mg/L		1	EPA 200.8	10/16/2013	KEA	
1925	pH	7.18				EPA 150.1	10/2/2013	APM	
1927	Alkalinity	128	mg CaCO3/		2	SM2320B	10/3/2013	APM	
1926	Conductivity	275	µmhos/cm	700	1	EPA 120.1	10/8/2013	APM	
1930	TDS	174	mg/L	500	10	EPA 160.1	10/7/2013	APM	
2905	Surfactants	ND	mg/L		0.05	SM5540C	10/10/2013	AJT	
	Turbidity(NTU)	58.5	NTU		1	EPA 180.1	10/8/2013	APM	
1997	Corrosivity (Langlier Index)	-0.970				ALCALUTIOI	10/18/2013	KAS	

ND = Analyte Not Detected

MCL = Maximum Contaminant Level

— = No Analysis Performed

MDL = Method Detection Limit

M1 Matrix spike recovery was high; the associated blank spike recovery was acceptable. Potential matrix effect.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The results reported relate only to the samples indicated.

Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Lab Supervisor

Kathleen A. Little

QUANTUM
QUANTUM ENGINEERING
S. 2641 SILVER BEACH LOOP
COEUR D'ALENE, ID 83814

Comments:

Certifications held by Anatek Labs ID EPA ID00013 AZ 0701 CO ID00013 FL(NELAP) E87893 ID ID00013 IN C-ID-01 KY 90142 MT CERT0028 NM ID00013 OR ID200001-002 WA C595
Certifications held by Anatek Labs WA EPA WA00169 ID WA00169 WA C585 MT Cert0095

Tuesday, October 22, 2013

Page 2 of 2

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Login Report

Customer Name: QUANTUM ENGINEERING

Order ID: 131002034

S. 2641 SILVER BEACH LOOP

Order Date: 10/2/2013

COEUR D' ALENE ID 83814

Contact Name: QUANTUM

Project Name: BRODER IOC

Comment:

Sample #: 131002034-001 Customer Sample #: BRODER WELL HEAD

Recv'd: ☒ Collector: JIM DESMET Date Collected: 10/2/2013
Quantity: 3 Matrix: Drinking Water Date Received: 10/2/2013 12 32:00 PM
Comment:

Test	Lab	Method	Due Date	Priority
HARDNESS by EPA 200.8	S	EPA 200.8	10/14/2013	<u>Normal (~10 Days)</u>
ALKALINITY	S	SM2320B	10/14/2013	<u>Normal (~10 Days)</u>
ALUMINUM	S	EPA 200.8	10/14/2013	<u>Normal (~10 Days)</u>
AMMONIA-NITROGEN	S	SM4500NH3G	10/14/2013	<u>Normal (~10 Days)</u>
ANTIMONY	S	EPA 200.8	10/14/2013	<u>Normal (~10 Days)</u>
ARSENIC	S	EPA 200.8	10/14/2013	<u>Normal (~10 Days)</u>
BARIUM	S	EPA 200.8	10/14/2013	<u>Normal (~10 Days)</u>
BERYLLIUM	S	EPA 200.8	10/14/2013	<u>Normal (~10 Days)</u>
CADMIUM	S	EPA 200.8	10/14/2013	<u>Normal (~10 Days)</u>
CHLORIDE	S	EPA 300.0	10/14/2013	<u>Normal (~10 Days)</u>
CHROMIUM	S	EPA 200.8	10/14/2013	<u>Normal (~10 Days)</u>
COLOR	S	EPA 110.2	10/14/2013	<u>Normal (~10 Days)</u>
CONDUCTIVITY	S	EPA 120.1	10/14/2013	<u>Normal (~10 Days)</u>
COPPER	S	EPA 200.8	10/14/2013	<u>Normal (~10 Days)</u>
CORROSIVITY	S	CALCULATION	10/14/2013	<u>Normal (~10 Days)</u>
FLUORIDE	S	EPA 300.0	10/14/2013	<u>Normal (~10 Days)</u>
ID IOC COMPLETE	S	N/A	10/14/2013	<u>Normal (~10 Days)</u>
IRON ICP	M	EPA 200.7	10/14/2013	<u>Normal (~10 Days)</u>
LEAD	S	EPA 200.8	10/14/2013	<u>Normal (~10 Days)</u>
MANGANESE	S	EPA 200.8	10/14/2013	<u>Normal (~10 Days)</u>
MERCURY-ICPMS	S	EPA 200.8	10/14/2013	<u>Normal (~10 Days)</u>
NICKEL	S	EPA 200.8	10/14/2013	<u>Normal (~10 Days)</u>
NITRATE/N	S	EPA 300.0	10/14/2013	<u>Normal (~10 Days)</u>

Customer Name: QUANTUM ENGINEERING
S. 2641 SILVER BEACH LOOP
COEUR D' ALENE ID 83814

Order ID: 131002034
Order Date: 10/2/2013

Contact Name: QUANTUM

Project Name: BRODER IOC

Comment:

NITRATE+ NITRITE AS N	S	EPA 300.0	10/14/2013	<u>Normal (~10 Days)</u>
NITRITE/N	S	EPA 300.0	10/14/2013	<u>Normal (~10 Days)</u>
ODOR	S	EPA 140.1	10/14/2013	<u>Normal (~10 Days)</u>
pH	S	EPA 150.1	10/14/2013	<u>Normal (~10 Days)</u>
POTASSIUM ICP	M	EPA 200.7	10/14/2013	<u>Normal (~10 Days)</u>
SELENIUM	S	EPA 200.8	10/14/2013	<u>Normal (~10 Days)</u>
SILICON ICP	M	EPA 200.7	10/14/2013	<u>Normal (~10 Days)</u>
SILVER	S	EPA 200.8	10/14/2013	<u>Normal (~10 Days)</u>
SODIUM ICP	S	EPA 200.7	10/14/2013	<u>Normal (~10 Days)</u>
SOLIDS - TDS	S	EPA 160.1	10/14/2013	<u>Normal (~10 Days)</u>
SULFATE	S	EPA 300.0	10/14/2013	<u>Normal (~10 Days)</u>
SULFIDE	S	SM4500S2F	10/14/2013	<u>Normal (~10 Days)</u>
SURFACTANTS	M	SM5540C	10/14/2013	<u>Normal (~10 Days)</u>
THALLIUM	S	EPA 200.8	10/14/2013	<u>Normal (~10 Days)</u>
TURBIDITY	S	EPA 180.1	10/14/2013	<u>Normal (~10 Days)</u>
ZINC	S	EPA 200.8	10/14/2013	<u>Normal (~10 Days)</u>

SAMPLE CONDITION RECORD

Samples received in a cooler?	Yes
Samples received intact?	Yes
What is the temperature inside the cooler?	10.1
Samples received with a COC?	Yes
Samples received within holding time?	Yes
Are all sample bottles properly preserved?	Yes
Are VOC samples free of headspace?	N/A
Is there a trip blank to accompany VOC samples?	N/A
Labels and chain agree?	Yes

Idaho Chain of Custody - Drinking Water Analysis

31002 034 **QUAN** Last Due 10/14/2013
 11 SAMPL 10/22/2013 1st RCVD 10/22/2013
 RODER IOC

WATER SYSTEM NAME BRORDER
 SEND REPORT TO QUANTUM ENGINEERING
 ADDRESS S. 2641 SILVER BEACH LOOP
 CITY STATE ZIP COEUR D'ALENE, ID 83814
 WATER SYSTEM # (208) 765-2308
 PHONE NUMBER (208) 667-2988
 FAX NUMBER KOOTENAI
 COUNTY

Sample Type ☐ Raw Water ☐ Compliance (C)
☐ Distribution ☐ Investigative (I)
☐ Plant Tap ☒ Other Purpose (B)

Public Water System Jurisdiction
 A copy of report to be sent to:
 Regulator N/A

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 Moscow ID 83843
 V: 208.883.2839
 F: 208.882.9246
 moscow@anateklabs.com
 EPA# ID00013
 www.anateklabs.com
 504 E Sprague Suite D
 Spokane WA 99202
 V: 509.838.3999
 F: 509.838.4433
 spokane@anateklabs.com
 EPA# WA00169

Sample Collection Location BRORDER well head
 Well Tag # 1261205 Date and Time Sample Taken 10/12/13 10:00A
 Sampler Name Jim DeWet Sampler Signature [Signature]

SEND BILL OR RECEIPT TO [Signature]
 Payment due with sample unless credit has been established
 Amount \$ _____
 Received by _____
 Payment Options
☐ Cash
☐ Bill
☐ Check # _____
☐ PO # _____
☐ Other _____

Check Desired Analyses

IOCS
☐ Arsenic & Sodium ☐ Fluoride ☐ Nitrate ☐ Nitrite
☐ Phase II IOC metals: Ba, Cd, Cr, Hg, Se
☐ Phase V IOC: Be, Ni, Sb, Ti
☐ Primary IOC package with Cyanide Waiver: As, Ba, Be, Cd, Cr, Hg, Na, Ni, Sb, Se, Ti, Nitrate, Nitrite, Fluoride
☐ Secondary/Optional IOC package: Ag, Al, Ca, Cu, Fe, K, Mg, Mn, Pb, Zn, Chloride, Sulfate, Ammonia, Hydrogen Sulfide, Silica, Color, Hardness, Odor, pH, Conductivity, Alkalinity, TDS, Langelier Index Corrosivity, Surfactants, Turbidity
☒ Complete IOC package: Ag, Al, As, Ba, Be, Ca, Cd, Cr, Cu, Fe, Hg, K, Mg, Mn, Na, Ni, Pb, Se, Sb, Ti, Zn, Chloride, Fluoride, Nitrate, Nitrite, Sulfate, Ammonia, Hydrogen Sulfide, Silica, Color, Hardness, Odor, pH, Conductivity, Alkalinity, TDS, Langelier Index Corrosivity, Surfactants, Turbidity
☐ Cyanide

VOCS
☐ VOC 524.2
☐ Total THM
☐ THMP
☐ Haloacetic Acids
☐ TOC

SOCs
☐ Phase II SOC (all 5 below)
☐ Semivolatiles (525.2)
☐ Herbicides (515.1)
☐ Carbamates (531.1)
☐ Pesticides (508)
☐ EDB (504.1)
☐ Phase V SOC (all 3 below)
☐ Diquat (549.1)
☐ Endothal (548.1)
☐ Glyphosate (547)

Other (specify) hard/soft/3/10

Customer Signature [Signature]
 Shipping/Delivery Date 10/12/13 12:30P

Received By [Signature]
 Date Received 10/21/13 12:32

DATE/TIME RECEIVED: 11/12/2012 ANALYST: DATE REVIEWED: SUPERVISOR:

REMARKS:

Ball, Dianne

From: Ball, Dianne
Sent: Tuesday, December 10, 2013 3:24 PM
To: Legal Notices-CdA Press; Legal Notices-CdA Press - Paige Plew
Cc: Franklin, Keith
Subject: Application for Permit No. 95-16555, 95-16651, 95-16656
Attachments: LegalNotice 12-10-13 CDA e-mail 95-16555,16651,16656.doc

Good afternoon, Paige,

Please publish the enclosed legal notice on the dates indicated, December 19 and 26, 2013, (once a week for two consecutive weekly issues). If you cannot publish the notice on the proposed dates, please contact us immediately.

Please send a proof/preview copy for my review before this actually goes to press. This should be very close to press ready – 2-column, 8pt, Century Old Style font.

An affidavit of publication must be submitted to the Department along with the publication bill. Please send the affidavit and bill to this office before 1/6/2014. Your cooperation is always appreciated.

Thanks for all your great help with our legal.

If you have any questions, please either call me or reply to this message.

Dianne Ball

Administrative Assistant
Idaho Department of Water Resources
7600 N Mineral Dr., Ste. 100
Coeur d'Alene, ID 83815
208-762-2800 Fax 208-762-2819

The following application(s) have been filed to appropriate the public waters of the State of Idaho:

95-16555

GLENN BLEDSOE

ALERIE BLEDSOE

PO BOX 835

RATHDRUM, ID 83858

Point of Diversion NWNWNE S30T53N R04W KOOTENAI CO

Source SPRING tributary SINKS

Point of Diversion NWNE S30 T53N R04W KOOTENAI CO

Source UNNAMED STREAM tributary SINKS

Use: DIVERSION to STORAGE	01/01 to 12/31	0.08 CFS
Use: DOMESTIC	01/01 to 12/31	0.06 CFS
Use: DOMESTIC from STORAGE	01/01 to 12/31	1.2 AF
Use: DOMESTIC STORAGE	01/01 to 12/31	2.5 AF
Use: FIRE PROTECTION	01/01 to 12/31	0.2 CFS
Use: FIRE PROTECTION Storage	01/01 to 12/31	1.3 AF
Use: IRRIGATION	04/01 to 10/31	0.06 CFS
Use: IRRIGATION from STORAGE	04/01 to 10/31	3 AF
Use: IRRIGATION STORAGE	01/01 to 12/31	4.3 AF
Total Diversion:	0.2 CFS	5.5 AF

Date Filed: 3/4/2013

Place of Use: ALL USES: T53N R04W S30 NWNE

Total Acres: 1

Domestic use is for 2 homes.

95-16651

RAY BRADLEY

51 S HIDDEN ISLAND LN

COEUR D ALENE, ID 83814

Point of Diversion NWSENE S8 T50N R04W KOOTENAI CO

Source GROUND WATER

Use: COOLING	01/01 to 12/31	0.03 CFS
Use: HEATING	01/01 to 12/31	0.03 CFS
Total Diversion:		0.03 CFS

Date Filed: 10/29/2013

Place of Use: COOLING and HEATING

T50N R04W S8 L6(SWNE) L5(ENE)

95-16656

SCOTT BRODER

3380 EAST LOOKOUT DRIVE

COEUR D ALENE, ID 83815

Point of Diversion NWSE S4 T51N R03W KOOTENAI CO

Source GROUND WATER

Point of Diversion NWSE S4 T51N R03W KOOTENAI CO

Source GROUND WATER

Use: DOMESTIC	01/01 to 12/31	0.13 CFS
Use: IRRIGATION	03/15 to 11/15	0.12 CFS
Total Diversion:		0.2 CFS

Date Filed: 10/23/2013

Place of Use: DOMESTIC T51N R03W S4 NWSE

Place of Use: IRRIGATION same as DOMESTIC

Total Acres: 4

Domestic use is for 8 homes.

Permits will be subject to all prior water rights. For additional information concerning the property location, contact Northern Region office at (208) 762-2800. Protests may be submitted based on the criteria of Idaho Code § 42-203A. Any protest against the approval of this application must be filed with the Director, Dept. of Water Resources, Northern Region, 7600 Mineral Drive, Suite 100, Coeur D' Alene ID 83815 together with a protest fee of \$25.00 for each application on or before 1/6/2014. The protestant must also send a copy of the protest to the applicant.

GARY SPACKMAN, Director

Published on 12/19/2013 and 12/26/2013



State of Idaho

DEPARTMENT OF WATER RESOURCES

Northern Region, 7600 Mineral Drive, Suite 100, Coeur d'Alene, Idaho 83815

Phone: (208) 762-2800 FAX: (208) 762-2819 www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

December 10, 2013

SCOTT BRODER
3380 EAST LOOKOUT DRIVE
COEUR D ALENE, ID 83815

Application For Permit No. 95-16656

Dear Applicant(s):

The Department of Water Resources has received your water right application. Please refer to the number referenced above in all future correspondence regarding this application.

A legal notice of the application has been prepared and is scheduled for publication in the COEUR D ALENE PRESS on 12/19/2013 and 12/26/2013. Protests to this application may be submitted for a period ending ten (10) days after the second publication.

If the application is protested, you will be sent a copy of each protest. All protests must be resolved before the application can be considered for approval. If the protest(s) cannot be resolved voluntarily, the Department will conduct a conference and/or hearing on the matter.

If the application is not protested, the Department will process your application and notify you of any action taken on the application. If your application is approved, the Department will send you a copy of the permit.

Please contact this office if you have any questions regarding the application.

Sincerely,

A handwritten signature in black ink that reads "Keith Franklin".

Keith Franklin
Program Manager