Well #2

WATER WELL REPORT

DEPARTMENT OF ECOLOGY State of Washington

Type of Work:
☒ Construction
☐ Decommission ⟹ Original installation NOI No. _____

Proposed Use: ☒ Domestic ☐ Industrial ☐ Municipal ☐ Dewatering ☐ Irrigation ☐ Test Well ☐ Other _____

Construction Type: ☒ New well ☐ Alteration ☐ Deepening ☐ Other _____

Method: ☐ Driven ☐ Jetted ☐ Cable Tool ☐ Dug ☒ Air- ☐ Mud-Rotary

Dimensions: Diameter of boring 6 in., to 420 ft.
Depth of completed well 420 ft.

Construction Details:

Casing	Liner	Diameter	From	To	Wall Thickness	Steel	PVC	Welded	Thread
☒	☐	6 in.	+1.5	80	____ in.	☒	☐	☒	☐
☐	☒	4 in.	-10	420	____ in.	☐	☒	☐	☐
☐	☐	____ in.	____	____	____ in.	☐	☐	☐	☐
☐	☐	____ in.	____	____	____ in.	☐	☐	☐	☐

Perforations: ☒ Yes ☐ No Type of perforator used SAW CUT
No. of perforations 184 Size of perforations 3/8 in. by 4 in.
Perforated from 370 ft. to 410 ft. below ground surface

Screens: ☐ Yes ☒ No ☐ K-Packer ⟹ Depth ____ ft.
Manufacturer's Name _____
Type _____ Model No. _____
Diameter ____ in. Slot size ____ in. from ____ ft. to ____ ft.
Diameter ____ in. Slot size ____ in. from ____ ft. to ____ ft.

Sand/Filter pack: ☐ Yes ☒ No Size of pack material ____ in.
Materials placed from ____ ft. to ____ ft.

Surface Seal: ☒ Yes ☐ No To what depth? 18 ft.
Material used in seal BENTONITE
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

Pump: Manufacturer's Name _____ Type: _____
H.P. _____ Pump intake depth: _____ ft. Designed flow rate: _____ gpm

Water Levels: Land-surface elevation above mean sea level 1847 ft.
Stick-up of top of well casing ____ ft. above ground surface
Static water level 127 ft. below top of well casing Date 09/10/2020
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (cap, valve, etc.)

Well Tests:
Was a pumping test performed? ☒ No ☐ Yes ⟹ by whom? _____
Yield ____ gpm with ____ ft. drawdown after ____ hrs.
Yield ____ gpm with ____ ft. drawdown after ____ hrs.
Yield ____ gpm with ____ ft. drawdown after ____ hrs.
Recovery data (time = zero when pump is turned off – water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of pumping test _____
Bailer test ____ gpm with ____ ft. drawdown after ____ hrs.
Air test 3-5 gpm with stem set at 410 ft. for 1 hrs. Date 09/09/2020
Artesian flow ____ gpm
Temperature of water ____ ° F Was a chemical analysis made? ☐ Yes ☒ No

Notice of Intent No. WE40457
Unique Ecology Well ID Tag No. BMH531
Site Well Name (if more than one well): _____
Water Right Permit/Certificate No. _____
Property Owner Name WILLIAM HOING
Well Street Address 720 DEER MEADOW WAY
City KETTLE FALLS County STEVENS
Tax Parcel No. 1047411
Was a variance approved for this well? ☐ Yes ☒ No
If yes, what was the variance for? _____

Location (see instructions on page 2): ☐ WWM or ☒ EWM
SW ¼-¼ of the NE ¼; Section 34 Township 36 Range 38
Latitude (Example: 47.12345) 48.57596
Longitude (Example: -120.12345) -118.00795

Driller's Log/Construction or Decommission Procedure
Formation: Describe by color, character, size of material and structure, and the kind and nature of the material in each layer penetrated, with at least one entry for each change of information. Use additional sheets if necessary.

Material	From	To
SILTY GRAVELS COBBLES	0	6
BROWN CLAY	6	12
BROWN SAND	12	19
GRAY CLAY	19	80
BLACK SHALE	80	224
SEEPAGE BLACK SHALE	224	260
DARK GRAY SHALE	260	315
FRACTURES	315	325
DARK GRAY SHALE	325	420

RECEIVED
SEP 28 2020
Department of Ecology
Eastern Washington Office

Start Date 09/04/2020 Completed Date 09/09/2020

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ PE – Print Name JOHN ARFMAN
Signature _____
License No. 2673
IF TRAINEE: Sponsor's License No. _____
Sponsor's Signature _____

Drilling Company FOGLE PUMP & SUPPLY, INC.
Address 2250 NORTH HIGHWAY
City, State, Zip COLVILLE, WA 99114
Contractor's Registration No. FOGLEPS095L4 Date 09/09/2020

The Department of Ecology does NOT warranty the data and/or information on this well report.

Water test for new well

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Client: Fogle Pump & Supply - Colville
Address: 2250 N. Hwy. 395
Colville, WA 99114
Attn: Kenny C

Work Order: WAK0127
Project: William C. Hoing
Reported: 11/13/2020 09:19

Analytical Results Report

Sample Location: 720 Deer Meadow Way, Kettle Falls, WA, 99141
Lab/Sample Number: WAK0127-01 Collect Date: 11/04/20 07:30
Date Received: 11/04/20 10:30 Collected By: William Hoing
Matrix: Drinking Water

Analyte	Result	Units	PQL	MCL	Analyzed	Analyst	Method	Qualifier
Microbiology								
E. coli	Absent		1.00		11/5/20 9:00	MMS	SM 9223 B	
Total Coliform	Absent		1.00		11/5/20 9:00	MMS	SM 9223 B	
Inorganics								
Nitrate-N	5.11	mg/L	0.100	10	11/4/20 14:08	BAS	EPA 300.0	
Metals by ICP-MS								
Arsenic	ND	mg/L	0.00100	0.01	11/10/20 12:31	TRC	EPA 200.8	
Lead	0.00109	mg/L	0.00100	0.015	11/10/20 12:31	TRC	EPA 200.8	
Uranium(mass)	6.73	ug/L	1.00	30	11/10/20 12:31	TRC	EPA 200.8	

Authorized Signature,

Karice Scott For Kathleen Sattler, Laboratory Manager

PQL	Practical Quantitation Limit
ND	Not Detected
MCL	EPA's Maximum Contaminant Level
Dry	Sample results reported on a dry weight basis
*	Not a certified analyte

OVER

WAK0127

Due: 11/18/20

Anatek Labs, Inc.

504 E Sprague Ave Ste D, Spokane WA 99202, (509) 838-3999 FAX 838-4433
1282 Alturas Drive, Moscow ID 83843, (208) 883-2839 FAX 882-9246

EPA# WA00169 EPA# ID00013

Turn Around Time *Rush Charges Ap
☒ Normal ☐ Next Day* ☐ 2-Day* ☐
email _____

Please fill out completely and legibly

Date Collected	Time Collected	County
11/04/20	7:30 (AM) PM	Stevens

Sample Purpose
☐ Purchase/Sale/Bldg Permit
☐ Informative
☒ New Well # 34199

Sample Type
☒ Standard Drinking Water
☐ Raw Source Water
☐ Other (Specify) _____
FOGLE PUMP COLVILLE

Client Name William C. Hoing

Specific Location Where Sample Was Collected (i.e.,address of well)
720 Deer Meadow Way Kettle Falls WA 99141

Send Report to:
Name William C Hoing
Address 720 Deer Meadow Way
City Kettle Falls St WA Zip 99141

Day Tel #	Fax #
509-393-3322	—

Sample Collected by:	Company:
William Hoing	—

Source Type (Check One)
☒ Well/Well Field ☐ Purchased or Intertie
☐ Spring ☐ Grd. Water under Surface Influence
☐ Surface Water ☐ Combination or Other _____

COLIFORM BACTERIA (Lab Use Only)

☐ SATISFACTORY (COLIFORM ABSENT)

REPEAT SAMPLES REQUIRED ☐ Unsatisfactory (Coliform Present)
☐ Total Present ☐ Total Absent
☐ E.Coli Present ☐ E.Coli Absent

Other Lab Results

Total Coliform	/100ml	E.Coli	/100ml
Fecal Coliform	/100ml	Plate Count	/100ml

☐ Another Sample Required

Sample Not Tested Because:
☐ Sample Too Old
☐ Wrong Container
☐ Other _____

Test Unsuitable Because:
☐ TNTC
☐ Turbid Culture
☐ Excess Debris

Report Date	Lab Analyst

Date Received	Time	By
11/4/2020	1030	KS

Inorganic Chemical Analysis Report

✓	Tests	MCL*	Results	Units	Compliance Y / N	Initials
X	**Arsenic (As)**	0.01		mg/L		
X	Barium (Ba)	2.0		mg/L		
	Beryllium (Be)	0.004		mg/L		
	Cadmium (Cd)	0.005		mg/L		
	Calcium (Ca)	-		mg/L		
	Chloride (Cl)	250		mg/L		
	Chromium (Cr)	0.1		mg/L		
	Color	15		Color Units		
	Conductivity	700		µmhos/cm 25°C		
	Copper (Cu)	1.3		mg/L		
	Corrosivity	-		-		
	Cyanide (CN)	0.2		mg/L		
	Fluoride (F)	4.0		mg/L		
	Hardness	-		mg/L as $CaCO_3$		
	Iron (Fe)	0.3		mg/L		
X	**Lead (Pb)**	0.015		mg/L		
X	Magnesium (Mg)	-		mg/L		
	Manganese (Mn)	0.05		mg/L		
	Mercury (Hg)	0.002		mg/L		
	Nickel (Ni)	0.1		mg/L		
X	**Nitrate as N**	10		mg/L		
	Nitrite as N	1.0		mg/L		
	pH	-		-		
	Selenium (Se)	0.05		mg/L		
	Silver (Ag)	0.1		mg/L		
	Sodium (Na)	-		mg/L		
	Sulfate (SO_4)	250		mg/L		
	TDS	500		mg/L		
	TSS	-		mg/L		
	Turbidity	1.0		NTU		
X	**Uranium (U)**	30		µg/L		
	Zinc (Zn)	5.0		mg/L		

MCL-Max. Contaminant Level TSS-Total Suspended Solids TDS-Total Dissolved Solids

OTHER ANALYSES REQUESTED	
Inorganic Contaminants (IOC's)	
Volatile Organics (VOC's)	
Semivolatile Organics (SOC's)	
Private Well Test	
Iron Bacteria	

Laboratory Comments
LFS B-LR011V

Lab Supervisor Report Date

Anatek Log-in # 3560