

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-17679
Exam Date: 11/08/2019

1. Current Owner:
SCENIC BAY WATER SYSTEM INCORPORATED 8636 E SCENIC BAY RD COEUR D ALENE ID 83814-2006

2. Accompanied by: Daniel Sturgis
Phone No: 1-360-951-4217
Address: 6516 S Artesian Way, CdA ID 83814
Relationship to permit Holder: Well lot owner and water user.

3. **SOURCE:**
GROUND WATER

Method of Determination: Arcmap and DRG

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
95-12313	Groundwater	Domestic	Beneficial Use
95-13623	Groundwater	Domestic	Beneficial Use

Comments: _____

2. Other water rights with the same point-of-diversion: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
95-13623	Groundwater	Domestic	Beneficial Use

Comments: _____

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER NE¼ NW¼, Sec. 12, Twp 49N, Rge 03W, B.M. KOOTENAI County

Method of Determination: Maps and GPS. POD located at -116° 40.349, 47° 36.800

PLACE OF USE: DOMESTIC

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
49N	03W	12					X	X											

Method of Determination: Arcmap and Google Earth.

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.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
95-83-N-19		1			

D. FLOW MEASUREMENTS

1.

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

2. Measurements: N/A

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

Measured Method: Unable to perform flow measurement because water flowed directly into 1,500 gallon cistern.
 Theoretical pumping equation estimates flow rate of 5.7 gpm or 0.01 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$$

2. Volume Calculations for Other Uses: Domestic use for 6 homes with irrigation up to ½ acre
 6 homes X 1.2 acre-feet = 7.2 acre-feet

G. NARRATIVE/REMARKS/COMMENTS

Field exam with Daniel Sturgis, a user and well lot owner, showed a well being used for domestic uses for 6 homes. The well was drilled back in the 1980's and was equipped with a 1 hp pump that was set 460 feet down. A frost free hydrant was located near the well where a 5 gallon bucket test was performed. It was believed the hydrant was coming straight off the well capacity but it was in fact coming from the 1,500 gallon cistern. The cistern was a buried concrete vault with pump house located on top of it. There was a pressure tank and additional pump for distribution from the cistern. A theoretical pumping equation was needed and estimated a flow rate of 5.7 gpm or 0.01 cfs. A note on the wall referenced the 1 hp pump as being a 5 gpm one.

The well was serving 6 homes in the subdivision. There was no information on how the piping went to the homes from the cistern. All homes were built and using water both in home and for some minor irrigation around the houses. The license will be issued with a diversion rate of 0.01 cfs with an annual volume of 7.2 acre-feet. The diversion rate for 0.01 cfs pumped year round is equal to 7.23 acre-feet at a diversion rate of 4.48 gpm. The well produced more than the 4.48 gpm so it can fully produce the 7.2 acre-feet that will be licensed.

Condition 046 will be removed from the license. Conditions X59 and X60 will be added to describe what lots are served water in the subdivision and what lot the well is located at. Condition 928 will be added because two of the homes have recommendations for domestic use 95-12313 and 95-13623.

Adjudication staff said there was nothing that could be done about recommendation 95-12313 because it was claimed as domestic use from a well located on their property. There is no well located on that property and it is served water from the community well. Condition 928 will handle any redundancy of rights. There are no other overlap concerns.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
DOMESTIC	01/01 to 12/31	0.01 CFS	7.2 AF

Totals: 0.01 CFS 7.2 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

Adam Frederick - Water Resource Agent, Senior

Field Examiner's Name Adam Frederick Date 11/15/2019
 Reviewer Douglas Jones P.E. Date 12/30/2019

State of Idaho
Department of Water Resources
Attachment to Field Exam
95-17679

DOMESTIC / SYSTEM DIAGRAM

03W



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

0 0.035 0.07 0.14 Miles



THEORETICAL PUMPING EQUATION FOR WATER RIGHT 95-17679

Unable to perform flow measurement as system pumped into 1,500 gallon cistern before being distributed to system. Theoretical pumping equation shows the pump being set 460 feet down at a presumed 40 psi. Pumping equation estimates flow rate at 0.01 cfs.

PUMP EQUATIONS WATER RIGHT No. 95- 17679						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	1	552.517	0.8	460	40
Q = 0.013 cfs		5.7 gpm				

MAY 21 1984

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.

ENT'D

Department of Water Resources

1. WELL OWNER

Name Roy HEBERER

Address Beauty Bay

Owner's Permit No. 95-83-N-19

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

3. PROPOSED USE

☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (specify type)

4. METHOD DRILLED

☒ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary
☐ Cable ☐ Dug ☐ Other _____

5. WELL CONSTRUCTION

Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____

Thickness	Diameter	From	To
250 inches	6 inches	1 feet	295 feet
125 inches	4 inches	90 feet	520 feet

Was casing drive shoe used? ☒ Yes ☐ No
Was a packer or seal used? ☐ Yes ☐ No
Perforated? P.U.C. ☒ Yes ☐ No
How perforated? ☐ Factory ☐ Knife ☒ Torch
Size of perforation 1/8 inches by 1/8 inches

Number	From	To
50 perforations	500 feet	520 feet
20 perforations	395 feet	400 feet
10 perforations	295 feet	300 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 20 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 _____

6. LOCATION OF WELL

Sketch map location must agree with written location.

Subdivision Name _____
Lot No. _____ Block No. _____
County Kootenai
SE 1/4 NW 1/4 Sec. 12 T. 49 N. R. 3 W.

7. WATER LEVEL

Static water level 60 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.

8. WELL TEST DATA

Discharge G.P.M.	Pumping Level	Hours Pumped
5 G.P.M.		

9. LITHOLOGIC LOG

Bore Diam.	Depth From To	Material	Water Yes No
8"	0 44	Brown dirt decomposed slate	X
	44 65	med. Granet SOFT SLATE	X
	65 95	Hard Granet.	X
6"	95 105	Hard SLATE	X
	105 160	SOFT SLATE	X
	160 220	medium SLATE	X
	220 325	hard SLATE	X
	325 520	hard SLATE	X
	160 162	1 G.P.M.	
	510 512	4 G.P.M.	
	440 Feet	4 inch	
	125 P.U.C.		

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MAY 13 1984
Department of Water Resources
Northern District Office

MICROFILMED

10.

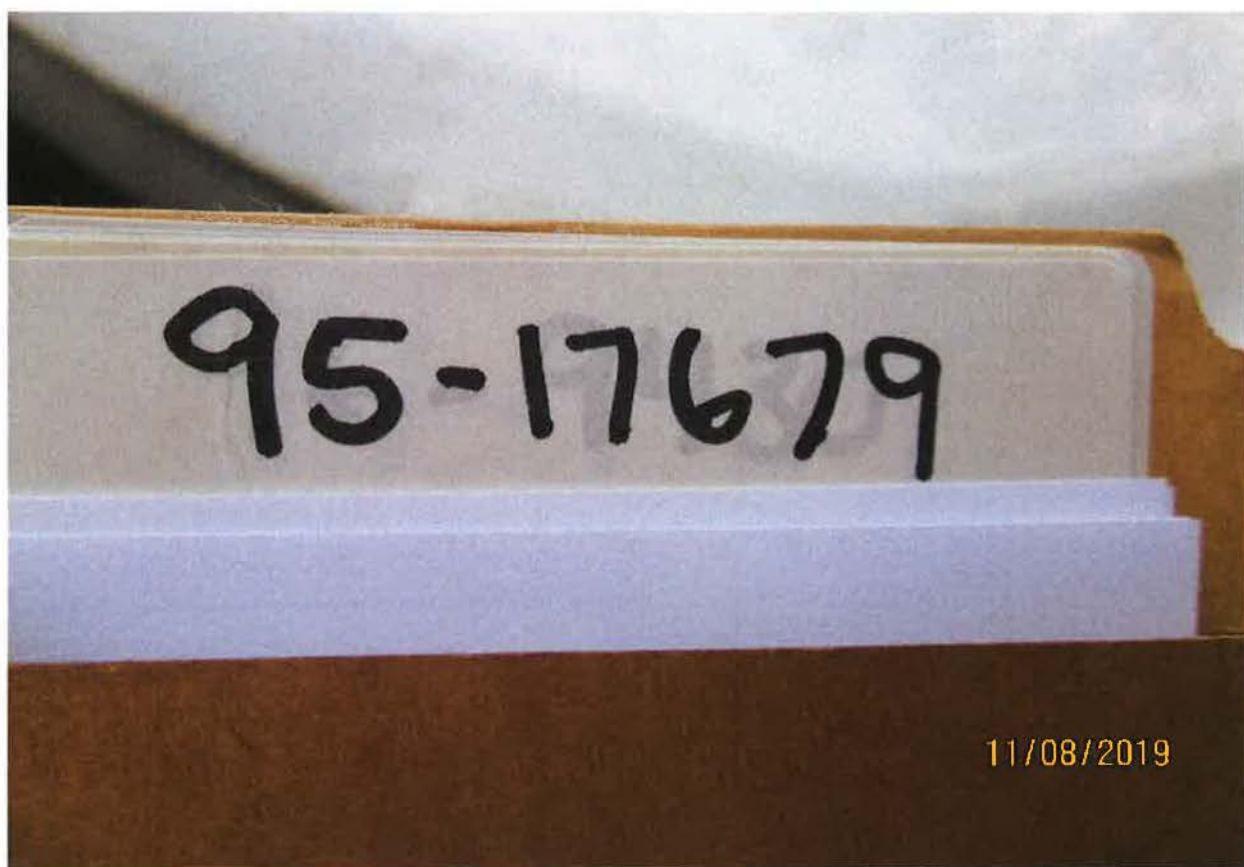
Work started 10/6/83 finished 10/10/83

11. 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 Firm No. 414
Address P.O. Box 2499 CDA IDA. Date 10/14/83
Signed by (Firm Official) [Signature]
and
(Operator) [Signature]

USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT



Point of diversion.



1 hp pump in well to 1,500 gallon storage tank.



Home 1 at Lot 11 Block 4.



Home 2 at Lot 8 Block 5.



Home 3 at Lot 10 Block 5.



Home 4 at Lot 16 Block 5.



Home 5 at Lot 18 Block 5.



Home 6 at Lot 14 Block 2.