

**MONTANA WELL LOG REPORT**

Other Options

This well log reports the activities of a licensed Montana well driller, serves as the official record of work done within the borehole and casing, and describes the amount of water encountered. This report is compiled electronically from the contents of the Ground Water Information Center (GWIC) database for this site. Acquiring water rights is the well owner's responsibility and is NOT accomplished by the filing of this report.

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**Site Name: NEITZKE, MATTHEW**  
**GWIC Id: 319567**

**Section 1: Well Owner(s)**

1) NEITZKE, MATTHEW & CASIE (MAIL)  
 252 OLD US HWY 93 S  
 SOMERS MT 59932 [04/05/2022]  
 2) NEITZKE, MATTHEW & CASIE (WELL)  
 1360 PATRICK CREEK RD  
 KALISPELL MT 59901 [04/05/2022]

**Section 2: Location**

Township	Range	Section	Quarter Sections
27N	21W	19	SE¼ NW¼ NW¼ SE¼
County		Geocode	
FLATHEAD			
Latitude	Longitude	Geomethod	Datum
48.087472	-114.318861	NAV-GPS	WGS84
Ground Surface Altitude	Ground Surface Method	Datum	Date

Addition

Block

Lot

**Section 3: Proposed Use of Water**

DOMESTIC (1)

**Section 4: Type of Work**

Drilling Method: ROTARY  
 Status: NEW WELL

**Section 5: Well Completion Date**

Date well completed: Tuesday, April 5, 2022

**Section 6: Well Construction Details****Borehole dimensions**

From	To	Diameter
0	145	10
145	720	8

**Casing**

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-1.5	145	8.6	0.25		WELDED	A53B STEEL
120	720	6.6	0.25		WELDED	A53B STEEL

**Completion (Perf/Screen)**

From	To	Diameter	# of Openings	Size of Openings	Description
700	720	6	20	1"	TORCH OR PLASMA CUTS

**Annular Space (Seal/Grout/Packer)**

From	To	Description	Cont. Fed?
0	145	BENTONITE	Y

**Section 7: Well Test Data**

Total Depth: 720  
 Static Water Level: 580  
 Water Temperature:

**Air Test \***

25 gpm with drill stem set at 700 feet for 1 hours.  
 Time of recovery 1 hours.  
 Recovery water level 580 feet.  
 Pumping water level    feet.

*\* During the well test the discharge rate shall be as uniform as possible. This rate may or may not be the sustainable yield of the well. Sustainable yield does not include the reservoir of the well casing.*

**Section 8: Remarks****Section 9: Well Log****Geologic Source**

Unassigned

From	To	Description
0	2	BLACK TOPSOIL
2	9	TAN CLAY
9	26	GRAY FRACTURED ROUGH SILTY CLAY
26	29	GRAY SOLID ROCK BOULDERS
29	34	GRAY FRACTURED ROCK CLAY
34	35	GRAY SOLID ROCK
35	90	GRAY FRACTURED ROCK
90	100	TAN SANDSTONE
100	105	TAN SAND AND LARGE FRACTURED ROCK
105	110	GRAY FRACTURED ROCK
110	117	TAN SOFT ROCK
117	127	GRAY FRACTURED ROCK
127	145	TAN/GRAY SOFTER ROCK
145	200	GRAY HARD ROCK WITH TAN LENSES
200	240	TAN/GRAY FRACTURED ROCK (CAVED AFTER DRILLING)

**Driller Certification**

All work performed and reported in this well log is in compliance with the Montana well construction standards. This report is true to the best of my knowledge.

**Name:** PATRICK CORY BRONSON  
**Company:** AQUASOURCE  
**License No:** WWD-168  
**Date Completed:** 4/5/2022

**Property directly  
north of subject  
property**

**Site Name: NEITZKE, MATTHEW****GWIC Id: 319567****Additional Lithology Records**

<b>From</b>	<b>To</b>	<b>Description</b>
240	300	GRAY HARD ROCK
300	315	TAN/GRAY SOFTER ROCK
315	410	TAN/GRAY ROCK
410	450	TAN/GRAY FRACTURED ROCK (CAVED AFTER DRILLING)
450	470	TAN/GRAY ROCK
470	680	HARD GRAY ROCK WITH TAN LENSES (WATER IN TAN LENSES)
680	720	TAN/GRAY FRACTURED ROCK WITH MUCH WATER

**MONTANA WELL LOG REPORT**

**Other Options**

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**Site Name: ROBERTSON, SHANE**  
**GWIC Id: 308282**

**Section 7: Well Test Data**

Total Depth: 980  
 Static Water Level: 780  
 Water Temperature:

**Section 1: Well Owner(s)**

1) ROBERTSON, SHANE (WELL)  
 1421 PATRICK CREEK ROAD  
 KALISPELL MT N/A [06/17/2020]

**Air Test \***

8 gpm with drill stem set at 900 feet for 2 hours.  
 Time of recovery 24 hours.  
 Recovery water level 780 feet.  
 Pumping water level    feet.

**Section 2: Location**

Township	Range	Section	Quarter Sections
27N	21W	19	NW¼ NW¼ NE¼ SE¼
			Geocode

FLATHEAD

Latitude	Longitude	Geomethod	Datum
48.087197	-114.313956	MAP	WGS84
Ground Surface Altitude	Ground Surface Method	Datum	Date

\* During the well test the discharge rate shall be as uniform as possible. This rate may or may not be the sustainable yield of the well. Sustainable yield does not include the reservoir of the well casing.

**Addition**                                      **Block**                                      **Lot**

**Section 8: Remarks**

**Section 3: Proposed Use of Water**

DOMESTIC (1)

**Section 9: Well Log**

**Geologic Source**

Unassigned

**Section 4: Type of Work**

Drilling Method: ROTARY  
 Status: NEW WELL

From	To	Description
0	7	SAND SILT
7	43	FRACTURED GRAY MUDSTONE
43	765	HARD GRAY MUDSTONE WITH OCCASIONAL SOFT YELLOW LENSES
765	980	HARD GRAY MUDSTONE WITH AMPLE SOFT YELLOW LENSES (WATER FROM 805'-980' LOST CIRC AT 900')

**Section 5: Well Completion Date**

Date well completed: Wednesday, June 17, 2020

**Driller Certification**

All work performed and reported in this well log is in compliance with the Montana well construction standards. This report is true to the best of my knowledge.

**Section 6: Well Construction Details**

**Borehole dimensions**

From	To	Diameter
0	45	8
45	900	6
900	980	5

**Casing**

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-1.5	45	6.6	0.25		WELDED	A53B STEEL
10	640	5.5	0.188		WELDED	A53B STEEL
540	900	4		160.0	GLUED	PVC-SDR 26

**Name:** TYREL HLAVNICKA  
**Company:** AQUASOURCE  
**License No:** WWC-199  
**Date Completed:** 6/17/2020

**Completion (Perf/Screen)**

From	To	Diameter	# of Openings	Size of Openings	Description
860	900	4	64	.1*5	SAW SLOTS
900	980	5	1	5	OPEN HOLE

**Annular Space (Seal/Grout/Packer)**

From	To	Description	Cont. Fed?
0	45	BENTONITE	

### MONTANA WELL LOG REPORT

### Other Options

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**Site Name: SCHELBERG, JAMES**  
**GWIC Id: 303955**

**Section 1: Well Owner(s)**

- 1) SCHELBERG, JAMES (MAIL)  
1435 PATRICK CREEK RD  
KALISPELL MT 59901 [11/05/2019]
- 2) SCHELBERG, JAMES (WELL)  
1435 PATRICK CREEK RD  
KALISPELL MT 59901 [11/05/2019]

**Section 7: Well Test Data**

Total Depth: 1102  
 Static Water Level: 895  
 Water Temperature:

**Air Test \***

4 gpm with drill stem set at 1100 feet for 2 hours.  
 Time of recovery 16 hours.  
 Recovery water level 895 feet.  
 Pumping water level    feet.

*\* During the well test the discharge rate shall be as uniform as possible. This rate may or may not be the sustainable yield of the well. Sustainable yield does not include the reservoir of the well casing.*

**Section 2: Location**

Township	Range	Section	Quarter Sections	
27N	21W	19	SE¼ SE¼	
County			Geocode	
FLATHEAD				
Latitude	Longitude	Geomethod	Datum	
48.083194259	-114.3130487405	TRS-SEC	NAD83	
Ground Surface Altitude	Ground Surface Method	Datum	Date	

**Section 8: Remarks**

**Section 9: Well Log**

**Geologic Source**

Unassigned

From	To	Description
0	50	TAN CLAY + GRAVEL + COBBLES + BOULDERS
50	135	FRACTURED TAN AND GRAY ROCK
135	162	GRAY ROCK
162	503	SOFT TAN AND GRAY ROCK
503	642	HARDER GRAY ROCK + TAN LAYERS
642	711	SOFT TAN AND GRAY ROCK
711	1042	HARDER GRAY ROCK
1042	1060	FRACTURED GRAY ROCK + WATER
1060	1102	GRAY ROCK

**Driller Certification**

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**Name:** JEFF GLAZIER  
**Company:** GLAZIER DRILLING  
**License No:** WWC-655  
**Date Completed:** 11/5/2019

**Addition**

**Block**

**Lot**

**Section 3: Proposed Use of Water**

DOMESTIC (1)

**Section 4: Type of Work**

Drilling Method: ROTARY  
 Status: NEW WELL

**Section 5: Well Completion Date**

Date well completed: Tuesday, November 5, 2019

**Section 6: Well Construction Details**

**Borehole dimensions**

From	To	Diameter
0	29	10
29	158	7.5
158	1102	6

**Casing**

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-2	158	6	0.25		WELDED	A53B STEEL
102	682	4		160.0	GLUED	PVC-SDR 26
682	1102	4		220.0	GLUED	PVC-SDR 21

**Completion (Perf/Screen)**

From	To	Diameter	# of Openings	Size of Openings	Description
1072	1101	4	8	3/8" X 7"	SAW SLOTS

**Annular Space (Seal/Grout/Packer)**

From	To	Description	Cont. Fed?
0	29	BENTONITE	

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**Site Name: SHILLING, DARYL**  
**GWIC Id: 308357**

**Section 1: Well Owner(s)**

1) SHILLING, DARYL (MAIL)  
 13311 CARLA AVE NW  
 UNIONTOWN OH 44685-9374 [07/09/2020]  
 2) SHILLING, DARYL (WELL)  
 1473 PATRICK CREEK ROAD  
 KALISPELL MT 59901 [07/09/2020]

**Section 2: Location**

Township	Range	Section	Quarter Sections
27N	21W	19	NW¼ SE¼ SE¼ SE¼
County			
FLATHEAD			
Latitude	Longitude	Geomethod	Datum
48.082411	-114.3112	NAV-GPS	WGS84
Ground Surface Altitude	Ground Surface Method	Datum	Date

Addition

Block

Lot

**Section 3: Proposed Use of Water**

DOMESTIC (1)

**Section 4: Type of Work**

Drilling Method: ROTARY  
 Status: NEW WELL

**Section 5: Well Completion Date**

Date well completed: Thursday, July 9, 2020

**Section 6: Well Construction Details****Borehole dimensions**

From	To	Diameter
0	60	10
60	110	8
110	1000	6

**Casing**

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-1.5	60	8.6	0.25		WELDED	A53B STEEL
-1.5	110	6.6	0.25		WELDED	A53B STEEL
20	1000	4		220.0	SPLINE	PVC-SCHED 40

**Completion (Perf/Screen)**

From	To	Diameter	# of Openings	Size of Openings	Description
960	1000	4	64	.1*5	SAW SLOTS

**Annular Space (Seal/Grout/Packer)**

From	To	Description	Cont. Fed?
0	110	BENTONITE	

**Section 7: Well Test Data**

Total Depth: 1000  
 Static Water Level: 920  
 Water Temperature:

**Air Test \***

7 gpm with drill stem set at 1000 feet for 2 hours.  
 Time of recovery 24 hours.  
 Recovery water level 920 feet.  
 Pumping water level    feet.

*\* During the well test the discharge rate shall be as uniform as possible. This rate may or may not be the sustainable yield of the well. Sustainable yield does not include the reservoir of the well casing.*

**Section 8: Remarks****Section 9: Well Log****Geologic Source**

Unassigned

From	To	Description
0	15	TAN SILTY CLAY
15	62	TAN TO GRAY FRACTURED MUDSTONE
62	130	GRAY MUDSTONE
130	145	TAN FRACTURED ROCK
145	510	GRAY MUDSTONE
510	575	TAN ROCK SOFT
575	660	GRAY MUDSTONE
660	665	TAN ROCK
665	850	GRAY MUDSTONE
850	855	TAN ROCK
855	935	GRAY MUDSTONE
935	1000	GRAY MUDSTONE WITH SMALL TAN WATER BEARING LENSES

**Driller Certification**

All work performed and reported in this well log is in compliance with the Montana well construction standards. This report is true to the best of my knowledge.

**Name:** TYREL HLAVNICKA**Company:** AQUASOURCE**License No:** WWC-199**Date Completed:** 7/9/2020

**MONTANA WELL LOG REPORT****Other Options**

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**Site Name: BOUMA, NEAL**  
**GWIC Id: 308370**

**Section 7: Well Test Data**

Total Depth: 880  
 Static Water Level: 695  
 Water Temperature:

**Air Test \***

10 gpm with drill stem set at 800 feet for 2 hours.  
 Time of recovery 24 hours.  
 Recovery water level 695 feet.  
 Pumping water level    feet.

*\* During the well test the discharge rate shall be as uniform as possible. This rate may or may not be the sustainable yield of the well. Sustainable yield does not include the reservoir of the well casing.*

**Section 8: Remarks**

PARTIAL LOST CIRCULATION WAS ENCOUNTERED IN THE WATER BEARING ZONE AS THE FORMATION WAS VERY FRACTURED. THE WELL LIKELY PRODUCES IN EXCESS OF 10 GPM.

**Section 9: Well Log****Geologic Source**

Unassigned

From	To	Description
0	6	FRACTURED TAN SILTSTONE
6	26	TAN SANDY CLAY
26	40	TAN CLAY
40	45	GRAY MUDSTONE
45	242	TAN FRACTURED SILTSTONE
242	245	GRAY MUDSTONE
245	247	TAN FRACTURED SILTSTONE
247	695	GRAY MUDSTONE WITH THIN TAN SILTSTONE LENSES
695	740	TAN SILTSTONE (STARTED MAKING WATER)
740	860	FRACTURED GRAY MUDSTONE WITH THIN TAN FRACTURED SILTSTONE LENSES (WATER)
860	880	GRAY MUDSTONE

**Driller Certification**

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**Name:** TYREL HLAVNICKA  
**Company:** AQUASOURCE  
**License No:** WWC-199  
**Date Completed:** 7/16/2020

**Section 1: Well Owner(s)**

1) BOUMA, NEAL (MAIL)  
 PO BOX 775  
 CHOTEAU MT 59422 [07/16/2020]

**Section 2: Location**

Township	Range	Section	Quarter Sections
27N	21W	29	SW¼ NW¼ NE¼ NW¼
County			Geocode

FLATHEAD

Latitude	Longitude	Geomethod	Datum
48.079619	-114.303411	MAP	WGS84
Ground Surface Altitude	Ground Surface Method	Datum	Date

Addition	Block	Lot

**Section 3: Proposed Use of Water**

UNUSED (1)

**Section 4: Type of Work**

Drilling Method: ROTARY  
 Status: NEW WELL

**Section 5: Well Completion Date**

Date well completed: Thursday, July 16, 2020

**Section 6: Well Construction Details****Borehole dimensions**

From	To	Diameter
0	265	8
265	880	6

**Casing**

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-1.5	265	6.6	0.25		WELDED	A53B STEEL
100	800	4		220.0	SPLINE	PVC-SCHED 40

**Completion (Perf/Screen)**

From	To	Diameter	# of Openings	Size of Openings	Description
700	800	4	64	.1*5	SAW SLOTS
800	880	6	1	6	OPEN HOLE

**Annular Space (Seal/Grout/Packer)**

From	To	Description	Cont. Fed?
0	265	BENTONITE	y