MONTANA WELL LOG REPORT

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 complied 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.

Other Options

Plot this site on a topographic map

Site Name: HAUG DAVE
GWIC Id: 215383

Section 1: Well Owner

Owner Name
HAUG DAVE
Mailing Address
33 WILLOW CR RD
City LIVINGSTON
State MT
Zip Code 59047

Section 2: Location

Township	Range	Section	Quarter Sections
02S	09E	1	NW¼ SE¼

County PARK
Geocode

Latitude	Longitude	Geomethod	Datum
45.6895	110.5573	TRS-TWN	NAD27

Altitude **Method** **Datum** **Date**

Addition **Block** **Lot**

Section 3: Proposed Use of Water

DOMESTIC (1)

Section 4: Type of Work

Drilling Method: ROTARY

Section 5: Well Completion Date

Date well completed: Thursday, June 17, 2004

Section 6: Well Construction Details

Borehole dimensions

From	To	Diameter
0	22	9
22	265	6

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-2	22	6	0.250		WELDED	STEEL
12	265	4.5		160.00		PVC

Completion (Perf/Screen)

From	To	Diameter	# of Openings	Size of Openings	Description
200	240	4.5		0.020	PERFORATED CASING

Annular Space (Seal/Grout/Packer)

From	To	Description	Cont. Fed?
0	22	BENTONTE	

Section 7: Well Test Data

Total Depth: 285
Static Water Level:
Water Temperature:

Air Test *

100 gpm with drill stem set at 265 feet for 1 hours.
Time of recovery 1 hours.
Recovery water level 43 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	1	TOPSOIL
1	18	SILT
18	105	SHALE
105	120	SANDSTONE
120	125	SAHLE
125	165	SANDSTONE
165	170	SHALE
170	175	SANDSTONE
175	210	SHALE
210	255	SANDSTONE
255	285	SHALE

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:
Company: ROCK CREEK
License No: WWC-300
Date Completed: 6/17/2004

Form No. 603 R2-99

MONTANA WELL LOG REPORT

Well ID# _____

This log reports the activities of a licensed Montana well driller and serves as the official record of work done within the borehole a casing and describes the amount of water encountered. **This form is to be completed by the driller and filed with DNRC withi days of completion of the work. Acquiring Water Rights is the well owner's responsibility and is not accomplished by the of this report.**

Well log information is stored in the Groundwater Information Center at the Montana Bureau of Mines and Geology (Butte) and wat information is stored in the Water Rights Bureau records (Helena).

For fields that are not applicable, enter NA. Optional fields have a grayed background. Record additional information in the REMARKS se

1. WELL OWNER:

Name Dave Haug

Mailing address [illegible]

2. WELL LOCATION List ¼ from smallest to largest

____ ¼ ____ ¼ [illegible] ¼ ____ ¼, Section 1

Township ____ N/S Range ____ E/W County [illegible]

Lot ____, Tract/Blk ____ Subdivision Name

Well Address _____

GPS ☐ Yes ☐ No

Latitude _____ Longitude _____

Error as reported by GPS locator (± feet) _____

Horizontal datum ☐ NAD27 ☐ WGS84

3. PROPOSED USE: ☑ Domestic ☐ Stock ☐ Irrigation ☐ Public water supply ☐ Monitoring Well ☐ Other:

4. TYPE OF WORK:

☑ New well ☐ Deepen existing well ☐ Abandon existing well

Method: ☐ Cable ☑ Rotary ☐ Other: _____

5. WELL CONSTRUCTION DETAILS:

Borehole:

Dia. 9 7/8 in. from [illegible] ft. to [illegible] ft.

Dia. 6 in. from [illegible] ft. to [illegible] ft.

Dia. ____ in. from ____ ft. to ____ ft.

Casing:

Steel: Wall thickness [illegible] ☐ Threaded ☑ Welded

Dia. ____ in. from [illegible] ft. to [illegible] ft.

Dia. ____ in. from ____ ft. to ____ ft.

Plastic: Pressure Rating 160 lbs. ☐ Threaded ☐ Welded

Dia. 4 1/2 in. from 12 ft. to 265 ft.

Perforations/Slotted Pipe:

Type of perforator used ____

Size of perforations/slots ____ in. by ____ in.

____ no. of perforations/slots from ____ ft. to ____ ft.

____ no. of perforations/slots from ____ ft. to ____ ft.

Screens: ☑ Yes ☐ No

Material _____

Dia. 4 1/2 Slot size .020 from 200 ft. to 240 ft.

Dia. ____ Slot size ____ from ____ ft. to ____ ft.

Gravel Packed: ☐ Yes ☑ No

Size of gravel _____

Gravel placed from ____ ft. to ____ ft.

Packer: ☐ Yes ☑ No

Type _____ Depth(s) _____

Grout: Material used [illegible]

Depth from 0 ft. to 22 ft. OR ☐ Continuous feed

6. WELL TEST DATA:

A well test is required for all wells. (*See details on well log report cover.*)

☐ Static water level ____ ft. below top of casing or

☐ Closed-in artesian pressure ____ psi.

How was test flow measured:

bucket/stopwatch, weir, flume, flowmeter, etc _____

Yellowstone Controlled Groundwater Area - Water Temperature ____ °F

☐ AQUIFER TEST DATA FORM ATTACHED

Test - 1 hour minimum

Drawdown is the amount water level is lowered below static le

All depth measurements shall be from the top of the well casin

Time of recovery is hours/minutes since pumping stopped.

Air test*

100 gpm with drill stem set at 285 ft. for 1 hou

Time of recovery 1 hrs/min. Recovery water level ____

OR Bailer test*

____ gpm with ____ ft. of drawdown after ____ hours

Time of recovery ____ hrs/min. Recovery water level ____

OR Pump test*

Depth pump set for test ____ ft.

____ gpm pump rate with ____ ft. of drawdown after ____ hrs pumpi

Time of recovery ____ hrs/min. Recovery water level ____ ft

OR Flowing Artesian*

____ gpm for ____ hours

Flow controlled by _____

**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 resevoir of the well casing.*

7. WELL LOG:

Depth, Feet From	To	Material: color/rock and type/descriptor (example: blue/shale/hard, or brown/gravel/water, or brown/sand/heaving)
0	1	Top Soil
1	18	Silt
18	105	Shale
105	120	Sandstone
120	125	Shale
125	165	Sandstone
165	170	Shale
170	175	Sandstone
125	210	Shale
210	255	Sandstone
255	285	Shale

☐ ADDITIONAL SHEETS ATTACHED

8. DATE WELL COMPLETED: [illegible]

9. REMARKS: _____

10. DRILLER/CONTRACTOR'S 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, firm, or corporation (print) Rock Creek Drilling

Address [illegible]

Signature [illegible]

Date _____ License no. [illegible]

Montana DNRC P.O. BOX 201601 HELENA, MT 59620-1601 444-6610

MBMG ID# _____

WELL OWNER COPY