

# MONTANA WELL LOG REPORT

Form No. 603 R2-04

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 and casing and describes the amount of water encountered. **This form is to be completed by the driller and filed with MBMG within 60 days of completion of the work.** Acquiring Water Rights is the well owner's responsibility and is not accomplished by the filing of this report.

Well log information is stored in the Groundwater Information Center at the Montana Bureau of Mines and Geology (Butte) and water right 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 section.

**1. WELL OWNER:**

Name ED GARDING  
 Mailing address 4883 Dove Tail  
RD - Billings mt 59106

**2. WELL LOCATION:**

List 1/4 from smallest to largest  
NE 1/4 SE 1/4, Section 21  
 Township 6 N 5 E Range 20 E County CARBON  
 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. 10 in. from 0 ft. to 2 ft.  
 Dia. 6 7/8 in. from 20 ft. to 150 ft.  
 Dia. \_\_\_\_\_ in. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**Casing:**  
 Steel: Wall thickness 250  Threaded  Welded  
 Dia. 6 7/8 in. from +2 ft. to 60 ft.  
 Dia. \_\_\_\_\_ in. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Plastic: Pressure Rating 250 lbs.  Threaded  Welded  
 Dia. 4 1/2 in. from 50 ft. to 150 ft.

**Perforations/Slotted Pipe:**  
 Type of perforator used Saw  
 Size of perforations/slots 4/8 in. by 6 in.  
90 no. of perforations/slots from 110 ft. to 150 ft.  
 \_\_\_\_\_ no. of perforations/slots from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**Screens:**  Yes  No  
 Material \_\_\_\_\_  
 Dia. \_\_\_\_\_ Slot size \_\_\_\_\_ from \_\_\_\_\_ ft. to \_\_\_\_\_ 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 Bentonite  
 Depth from 0 ft. to 20 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 68 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 level.  
 All depth measurements shall be from the top of the well casing.  
 Time of recovery is hours/minutes since pumping stopped.

**Air test\***  
40 gpm with drill stem set at 150 ft. for 1 1/2 hours  
 Time of recovery 200 hrs/min. Recovery water level 28 ft.

**OR Bailor test\***

\_\_\_\_\_ gpm with \_\_\_\_\_ ft. of drawdown after \_\_\_\_\_ hours  
 Time of recovery \_\_\_\_\_ hrs/min. Recovery water level \_\_\_\_\_ ft.

**OR Pump test\***

Depth pump set for test \_\_\_\_\_ ft.  
 \_\_\_\_\_ gpm pump rate with \_\_\_\_\_ ft. of drawdown after \_\_\_\_\_ hrs pumping  
 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 reservoir of the well casing.

**7. WELL LOG:**

Depth, Feet		Material: color/rock and type/descriptor (example: blue/shale/hard, or brown/gravel/water, or brown/sand/heaving)
From	To	
0	3	Brown top soil
3	57	tan Gravel
57	68	Gray shale
68	91	Brown shale
91	96	Gray Sandstone w/ R 2
96	128	Gray shale
128	134	Gray sandstone
134	150	Gray shale

ADDITIONAL SHEETS ATTACHED

**8. DATE WELL COMPLETED:** 6-21-08

**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) Douglas Drilling  
 Address Roberts  
 Signature [Signature]  
 Date 6-21-08 License no. 591

