

085 20E 3 BB  
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 LARRY EMMIS  
 Mailing address PO Box 129  
Montrose MT 59059

**2. WELL LOCATION:** List 1/4 from smallest to largest  
 1/4 1/4 1/4 1/4 Section 5  
 Township E 10 N 5 Range 50 E County Fallon  
 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. 7 1/2 in. from 0 ft. to 105 ft.  
 Dia. 6 in. from 105 ft. to 606 ft.  
 Dia. \_\_\_\_\_ in. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
**Casing:**  
 Steel: Wall thickness 750 Threaded  Welded   
 Dia. 6 7/8 in. from 72 ft. to 105 ft.  
 Dia. \_\_\_\_\_ in. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Plastic: Pressure Rating 250 lbs.  Threaded  Welded   
 Dia. 4 1/2 in. from 10 ft. to 606 ft.  
**Perforations/Slotted Pipe:**  
 Type of perforator used Hydrus Saw  
 Size of perforations/slots 3/8 in. by 1 1/4 in. 4x6  
40 no. of perforations/slots from 80 ft. to 100 ft.  
20 no. of perforations/slots from 80 ft. to 606 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 \_\_\_\_\_ ft. to \_\_\_\_\_ 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 30 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\***  
12 gpm with grill stem set at 610 ft. for 2 hours  
 Time of recovery 70 hrs/min. Recovery water level 30 ft.

OR **Bailer 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:** HF

Depth, Feet		Material:
From	To	color/rock and type descriptor (example: blue/shale/hard, or brown/gravel/water, or brown/sand/heaving)
0	2	BRN TOP SOIL
2	91	Red sand & Gravel with
91	606	tan white & clay limonite
		WORK AT 86 TO 90
	11 11	575 GPM

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SEP 20 2010  
MBMG

ADDITIONAL SHEETS ATTACHED \_\_\_\_\_

**8. DATE WELL COMPLETED:** 9-14-09

**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) Daniel S. Drilling  
 Address 8800 5th St  
 Signature [Signature]  
 Date 9-14-09 License no. 591

Montana Bureau of Mines & Geology  
The University of Montana  
1300 West Park Street  
Butte, MT 59701

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