New well

MONTANA WELL LOG REPORT

Form No. 603 R2-99

Well ID# 1052

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 DNRC 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 Charles G. Duffy / Wesley Kremer TIC

MAILING ADDRESS PO Box 70

Pray, MT 59065

2. WELL LOCATION: List ¼ from smallest to largest

NW ¼ NE ¼ SW ¼ SW ¼, Section 18

Township 5S N/S Range 9E E/W County Park

Lot ____, Tract/Blk ____ Subdivision Name ____

Well Address ____

GPS [X] Yes [ ] No

Latitude 45 23 51.1 N Longitude 110 40 04.2 W

Error as reported by GPS locator (± feet) 18

Horizontal datum [X] NAD27 [ ] WGS84

3. PROPOSED USE: [X] Domestic [ ] Stock [ ] Irrigation [ ] Public Water Supply [ ] Monitoring Well [X] Other: Test Well #2

4. TYPE OF WORK:
[X] New well [ ] Deepen existing well [ ] Abandon existing well

Method: [ ] Cable [X] Rotary [ ] Other: ____

5. WELL CONSTRUCTION DETAIL:

Borehole:
Dia. 6 in. from 0 ft. to 260 ft.
Dia. ____ in. from ____ ft. to ____ ft.
Dia. ____ in. from ____ ft. to ____ ft.

Casing:
Steel: Wall thickness .250 [ ] Threaded [X] Welded
Dia. 6 in. from +2 ft. to 259 ft.
Dia. ____ in. from ____ ft. to ____ ft.

Plastic: Pressure Rating ____ lbs. [ ] Threaded [ ] Welded
Dia. ____ in. from ____ ft. to ____ 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 [X] No
Material ____
Dia. ____ Slot size ____ from ____ ft. to ____ ft.
Dia. ____ Slot size ____ from ____ ft. to ____ ft.

Gravel Packed: [ ] Yes [X] No
Size of gravel ____
Gravel placed from ____ ft. to ____ ft.

Packer: [ ] Yes [X] No
Type ____ Depth(s) ____

Grout: Material used Bentonite
Depth from ____ ft. to ____ ft. OR [X] Continuous feed

6. WELL TEST DATA:
A well test is required for all wells. (See details on well log report cover.)

[X] Static water level 169 ft. below top of casing or
[ ] Closed-in artesian pressure ____ psi.

How was test flow measured:
bucket/stopwatch, weir, flume, flowmeter, etc Bucket/Stopwatch

Yellowstone groundwater closure area only - 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*
70 gpm with drill stem set at 255 ft. for 1 hours
Time of recovery 1 hr. hrs/min. Recovery water level 169 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 resevoir of the well casing.

7. WELL LOG:

Depth, Feet From	Depth, Feet To	Material: color/rock and type/descriptor (example: blue/shale/hard, or brown/gravel/water, or brown/sand/heaving)
0	2	Topsoil
2	60	Sand, gravel & cobbles
60	190	Sand, gravel, cobbles & boulders
190		Slightly claybound sand, gravels &
	260	cobbles, a few boulders
I.R. drive shoe used		

[ ] ADDITIONAL SHEETS ATTACHED

8. DATE WELL COMPLETED: 10/10/2006

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)
Hayes Drilling Co

Address 2403 Par Court - Bozeman, MT 59715

Signature ____

Date 11/14/2006 License no. 361/074

MBMG ID#