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
View scanned well log (12/11/2009 12:01:57 PM)

Site Name: YOUNG JIM
GWIC Id: 181317
DNRC Water Right: C114258-00

Section 1: Well Owner

Owner Name
YOUNG JIM
Mailing Address
5239 US HWY 895

City	State	Zip Code
LIVINGSTON	MT	59047

Section 2: Location

Township	Range	Section	Quarter Sections
03S	09E	2	NW¼ NW¼ NE¼

County PARK **Geocode**

Latitude	Longitude	Geomethod	Datum
45.611834	110.579191	TRS-SEC	NAD83

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

Addition **Block** **Lot** 4

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, November 04, 1999

Section 6: Well Construction Details

Borehole dimensions

From	To	Diameter
0	60	6

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-2	30	6				STEEL
10	60	4				PVC

Completion (Perf/Screen)

From	To	Diameter	# of Openings	Size of Openings	Description
40	60	4			1/8X1/8 DRILL

Annular Space (Seal/Grout/Packer)

From	To	Description	Cont. Fed?
0	20	BENTONITE	

Section 7: Well Test Data

Total Depth: 60
Static Water Level: 24
Water Temperature:

Air Test *

80 gpm with drill stem set at 58 feet for 1 hours.
Time of recovery 0 hours.
Recovery water level _ 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	30	SAND/ GRAVEL
30	60	BROWN LIMESTONE

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: HILLMAN DRILLING
License No: WWC-105
Date Completed: 11/4/1999

3S 9E 2 ABB

MONTANA WELL LOG REPORT

Form No. 603 R2-99

Well ID# 43B-C114258

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). 141893

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 Jim Young
Mailing address 5239 US Hwy 89 S
Livingston MT 59047

2. WELL LOCATION: List ¼ from smallest to largest
NW NW NE
___ ¼ ~~SW ¼ NW ¼ NE~~ ¼, Section 2
Township 3 N/S Range 9 E/W County Park
GOV Lot 4 , Tract/Blk ___ Subdivision Name ___
Well Address COS 1444
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. 6 in. from 0 ft. to 60 ft.
Dia. ___ in. from ___ ft. to ___ ft.
Dia. ___ in. from ___ ft. to ___ ft.

Casing:
Steel: Wall thickness .250 ☐ Threaded ☒ Welded
Dia. 6 5/8 in. from +1.8 ft. to 30 ft.
Dia. ___ in. from ___ ft. to ___ ft.

Plastic: Pressure Rating ___ lbs. ☐ Threaded ☐ Welded
Dia. 4 1/2 in. from 10 ft. to 60 ft.

Perforations/Slotted Pipe:
Type of perforator used Drill
Size of perforations/slots 1/8 in. by 1/4 in.
___ no. of perforations/slots from 40 ft. to 60 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 24 ft. below top of casing **or**
☐ Closed-in artesian pressure ___ psi.
How was test flow measured:
bucket/stopwatch, weir, flume, flowmeter, etc ___
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*
80 gpm with drill stem set at 58 ft. for 1 hours
Time of recovery ___ hrs/min. Recovery water level ___ 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: HB

Depth, Feet		Material: color/rock and type/descriptor (example: blue/shale/hard, or brown/gravel/water, or brown/sand/heaving)
From	To	
0	30	Sand Gravel
30	60	Brown Cement

☐ ADDITIONAL SHEETS ATTACHED

8. DATE WELL COMPLETED: 11-4-00

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) Norman Drilling of MT Inc
Address Box 514 Livingston MT 59047
Signature [signature]
Date 3-5-8 License no. 153

MBMG ID# 181317

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

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