

MONTANA WELL LOG REPORT

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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 compiled 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.

Site Name: MINGER DAVE
GWIC Id: 161421

Section 7: Well Test Data

Total Depth: 75
Static Water Level: 55
Water Temperature:

Section 1: Well Owner(s)

1) MINGER, DAVE (MAIL)
GENERAL DELIVER
RED LODGE MT 59068 [06/11/1996]

Air Test *

30 gpm with drill stem set at feet for 1 hours.
Time of recovery 0.01 hours.
Recovery water level 55 feet.
Pumping water level 75 feet.

Section 2: Location

| Township | Range | Section | Quarter Sections |
|----------|-------|---------|------------------|
| 08S | 20E | 9 | SW¼ SW¼ NW¼ |
| County | | | Geocode |

CARBON

| Latitude | Longitude | Geomethod | Datum |
|-----------|-------------|-----------|-------|
| 45.145374 | -109.280041 | TRS-SEC | NAD83 |

| Ground Surface Altitude | Ground Surface Method | Datum Date |
|-------------------------|-----------------------|------------|
|-------------------------|-----------------------|------------|

** 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.*

Addition

RED LODGE ESTATES

| Block | Lot |
|-------|-----|
| 4 | 1 |

Section 8: Remarks

Section 3: Proposed Use of Water

DOMESTIC (1)

Section 9: Well Log

Geologic Source

110ALVM - ALLUVIUM (QUATERNARY)

Section 4: Type of Work

Drilling Method: ROTARY DRIVEN
Status: NEW WELL

| From | To | Description |
|------|----|--------------------|
| 0 | 5 | TOPSOIL AND GRAVEL |
| 5 | 22 | CLAY AND GRAVEL |
| 22 | 77 | GRAVEL |
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Section 5: Well Completion Date

Date well completed: Tuesday, June 11, 1996

Section 6: Well Construction Details

Borehole dimensions

| From | To | Diameter |
|------|----|----------|
| 0 | 22 | 8 |
| 22 | 75 | 7 |
| 75 | 77 | 6 |

Casing

| From | To | Diameter | Wall Thickness | Pressure Rating | Joint | Type |
|------|----|----------|----------------|-----------------|-------|-------|
| -1.5 | 75 | 6 | | | | STEEL |

Completion (Perf/Screen)

| From | To | Diameter | # of Openings | Size of Openings | Description |
|------|----|----------|---------------|------------------|-------------|
| 75 | 77 | 6 | | | OPEN BOTTOM |

Annular Space (Seal/Grout/Packer)

| From | To | Description | Cont. Fed? |
|------|----|-------------|------------|
| 0 | 22 | BENTONITE | |

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: AAQUA DRILLING INC
License No: WWC-542

Date Completed: 6/11/1996

085 20E 09 BCC
WELL LOG REPORT

122733

FORM NO. 203 (R 8-84)

File No. _____

State law requires that the Bureau's copy be filed by the water well driller within 60 days after completion of the well.

| | |
|--|--|
| <p>1. WELL OWNER Name <u>Dave Wingler</u></p> <p>2. CURRENT MAILING ADDRESS <u>1000 1st St SW</u> <u>Butte, MT 59701</u></p> <p>3. WELL LOCATION S 1/2 1/4 SW 1/4 NW 1/4 Section <u>9</u> Township <u>8 N</u> Range <u>20 E</u> County <u>CARBON</u> Gov't Lot _____ of Lot <u>1</u> Block <u>4</u> Subdivision Name <u>Red Lodge Estates</u> Tract Number _____</p> <p>4. PROPOSED USE: Domestic <input checked="" type="checkbox"/> Stock <input type="checkbox"/> Irrigation <input type="checkbox"/> Other <input type="checkbox"/> specify _____</p> <p>5. TYPE OF WORK: New well <input checked="" type="checkbox"/> Method: Dug <input type="checkbox"/> Bored <input type="checkbox"/> Deepened <input type="checkbox"/> Cable <input type="checkbox"/> Driven <input checked="" type="checkbox"/> Reconditioned <input type="checkbox"/> Rotary <input checked="" type="checkbox"/> Jetted <input type="checkbox"/></p> <p>6. DIMENSIONS: Diameter of Hole Dia. <u>8 3/4</u> in. from <u>0</u> ft. to <u>23</u> ft. Dia. <u>2 1/2</u> in. from <u>23</u> ft. to <u>25</u> ft. Dia. <u>6</u> in. from <u>25</u> ft. to <u>27</u> ft.</p> <p>7. CONSTRUCTION DETAILS: Casing; Steel Dia. <u>6 1/2</u> from <u>0</u> ft. to <u>25</u> ft. Threaded <input type="checkbox"/> Welded <input checked="" type="checkbox"/> Dia. _____ from _____ ft. to _____ ft. Type <u>2 1/2</u> Wall Thickness <u>2 5/8</u> Casing; Plastic Dia. _____ from _____ ft. to _____ ft. Weight _____ Dia. _____ from _____ ft. to _____ ft. PERFORATIONS: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Type of perforator used _____ Size of perforations _____ in. by _____ in. _____ perforations from _____ ft. to _____ ft. _____ perforations from _____ ft. to _____ ft. _____ perforations from _____ ft. to _____ ft. SCREENS: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Manufacturer's Name _____ Type _____ Model No. _____ Dia. _____ Slot size _____ from _____ ft. to _____ ft. Dia. _____ Slot size _____ from _____ ft. to _____ ft. GRAVEL PACKED: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Size of gravel _____ Gravel placed from _____ ft. to _____ ft. GROUTED: To what depth? <u>22</u> ft. Material used in grouting <u>Bestonite</u></p> <p>8. WELL HEAD COMPLETION: Pitless Adapter <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>9. PUMP (if installed) Manufacturer's name _____ Type _____ Model No. _____ HP _____</p> <p>10. WELL TEST DATA The information requested in this section is required for all wells. All depth measurements shall be from the top of the well casing. All wells under 100 gpm must be tested for a minimum of one hour and provide the following information: a) Air <input checked="" type="checkbox"/> Pump _____ Ballor _____ b) Static water level immediately before testing _____ ft. If flowing; closed-in pressure _____ psi. _____ gpm. Flow controlled by: _____ valve, _____ reducers, _____ other, (specify) _____ c) Depth at which pump is set for test _____ ft. d) The pumping rate: _____ gpm. e) Pumping water level _____ ft. at _____ hrs. after pumping began.</p> | <p>f) Duration of test: Pumping time <u>1</u> hrs. g) Recovery time <u>14</u> hrs. h) Recovery water level <u>55</u> ft. at <u>14</u> hrs. after pumping stopped. Wells intended to yield 100 gpm or more shall be tested for a period of 8 hours or more. The test shall follow the development of the well, and shall be conducted continuously at a constant discharge at least as great as the intended appropriation. In addition to the above information, water level data shall be collected and recorded on the Department's "Aquifer Test Data" form. NOTE: All wells shall be equipped with an access port 1/2 inch minimum or a pressure gauge that will indicate the shut-in pressure of a flowing well. Removable caps are acceptable as access ports.</p> <p>11. WAS WELL PLUGGED OR ABANDONED? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, how? _____</p> <p>12. WELL LOG Depth (ft.) From To Formation <u>0</u> <u>5</u> <u>HF</u> <u>5</u> <u>22</u> <u>HF</u> <u>22</u> <u>27</u> <u>HF</u></p> <p style="text-align: center;">ATTACH ADDITIONAL SHEETS IF NECESSARY</p> <p>13. YELLOWSTONE CLOSURE AREA: WATER TEMPERATURE _____</p> <p>14. DATE COMPLETED <u>6/11/96</u></p> <p>15. DRILLER/CONTRACTOR'S CERTIFICATION This well was drilled under my jurisdiction and this report is true to the best of my knowledge. Date <u>6/11/96</u> Firm Name <u>Boyer Drilling Inc</u> Address <u>Boyer Drilling 4400 5th St SW</u> Signature <u>Paul Boyer</u> License No. <u>5412</u></p> |
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MONTANA DEPARTMENT OF NATURAL RESOURCES & CONSERVATION
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