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41F-30005107

Well ID#

For fields that are not applicable, enter NA. Optional fields have a grayed background. Record additional information in the REMARKS section.

Name Terry Quirk
Mailing address 4000 Nelson Rd
Longmont, CO 80503

WELL LOCATION List $\frac{1}{4}$ from smallest to largest
 _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 31
 Township 9 N/S Range 10 E/W County Madison
 Lot 14C, Tract/Blk _____ Subdivision Name _____
 Well Address _____ Cos # 376
 GPS ☐ Yes ☒ No
 Latitude _____ Longitude _____
 Error as reported by GPS locator (\pm feet) _____
 Horizontal datum ☐ NAD27 ☐ WGS84

PROPOSED USE: ☒ Domestic ☐ Stock ☐ Irrigation
☐ Public water supply ☐ Monitoring Well ☐ Other:

Method: ☐ Cable ☒ Rotary ☐ Other _____

Borehole: 10 in. from 0 ft. to 20 ft.
Dia. 6 in. from 20 ft. to 65 ft.
Dia. _____ in. from _____ ft. to _____ ft.

Steel: Wall thickness 250 ☐ Threaded ☒ Welded
Dia. 6 5/8" in. from 2 ft. to 63 ft
Dia. _____ in. from _____ ft. to _____ ft

Plastic: Pressure Rating _____ lbs. ☐ Threaded ☐ Welded
Dia _____ in. from _____ ft to _____ ft

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 ☒ 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 crumbles
Depth from _____ ft to _____ ft OR ☒ Continuous feed

A well test is required for all wells. (See details on well log report cover.)

☐ Static water level 27 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 °

☐ AQUIFER TEST DATA FORM ATTACHED

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*
20 gpm with drill stem set at 65 ft. for 2 hours
Time of recovery 1 hrs. min. Recovery water level 27 ft.

Time of recovery hrs/min. Recovery water level ft.

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

_____ 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.*

[illegible]☐ ADDITIONAL SHEETS ATTACHED

8. DATE WELL COMPLETED: Aug 5 2002

9. REMARKS: _____

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) Madison Drilling & Pump Supply
Address PO Box 1378 Ennis MI 49729
Signature Monte Davis
Date 10/1/02 License no 557



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

MBMG ID#

19 9493

Ground-Water Information Center Water Quality Report

Report Date: 5/20/2019

Site Name: QUIRK TERRY

[Compare to Water Quality Standards](#)

Location Information

Sample Id/Site Id:	202799 / 199493	Sample Date:	9/26/2012 2:32:00 PM
Location (TRS):	09S 01E 31 CCCB	Agency/Sampler:	MBMG / CARSTARPHEN, CAMELA
Latitude/Longitude:	45° 0' 2" N 111° 39' 26" W	Field Number:	199493
Datum:	NAD83	Lab Date:	1/23/2013 1:03:02 PM
Altitude:	5650	Lab/Analyst:	MBMG / MCGRATH, STEVE
County/State:	MADISON / MT	Sample Method/Handling:	PUMPED / ru:1 ra:0 fu:1 fa:2
Site Type:	WELL	Procedure Type:	DISSOLVED
Geology:	112SNGR	Total Depth (ft):	65
USGS 7.5' Quad:	BUCKS NEST	SWL-MP (ft):	20.4
PWS Id:		Depth Water Enters (ft):	63
Project:	GWCP08		

Major Ion Results

	mg/L	meq/L		mg/L	meq/L
Calcium (Ca)	28.860	1.440	Bicarbonate (HCO ₃)	135.230	2.216
Magnesium (Mg)	6.450	0.531	Carbonate (CO ₃)	0.000	0.000
Sodium (Na)	15.110	0.657	Chloride (Cl)	7.480	0.211
Potassium (K)	2.380	0.061	Sulfate (SO ₄)	6.640	0.138
Iron (Fe)	<0.015 U	0.000	Nitrate (as N)	0.350	0.025
Manganese (Mn)	<0.002 U	0.000	Fluoride (F)	0.910	0.048
Silica (SiO ₂)	30.770		Orthophosphate (as P)	<0.020 U	0.000
Total Cations		2.696	Total Anions		2.639

Trace Element Results (µg/L)

Aluminum (Al):	0.570 J	Cesium (Cs):	<0.100 U	Molybdenum (Mo):	2.260	Strontium (Sr):	70.170
Antimony (Sb):	0.610	Chromium (Cr):	0.550	Nickel (Ni):	0.390 J	Thallium (Tl):	<0.100 U
Arsenic (As):	29.110	Cobalt (Co):	<0.100 U	Niobium (Nb):	<0.100 U	Thorium (Th):	<0.100 U
Barium (Ba):	18.700	Copper (Cu):	0.690	Neodymium (Nd):	<0.100 U	Tin (Sn):	<0.100 U
Beryllium (Be):	<0.100 U	Gallium (Ga):	<0.100 U	Palladium (Pd):	<0.100 U	Titanium (Ti):	<0.100 U
Boron (B):	58.030	Lanthanum (La):	<0.100 U	Praseodymium (Pr):	<0.100 U	Tungsten (W):	0.420 J
Bromide (Br):	<10.000 U	Lead (Pb):	<0.040 U	Rubidium (Rb):	4.370	Uranium (U):	14.820
Cadmium (Cd):	<0.100 U	Lithium (Li):	81.510	Silver (Ag):	<0.100 U	Vanadium (V):	2.270
Cerium (Ce):	<0.100 U	Mercury (Hg):	NR	Selenium (Se):	0.240 J	Zinc (Zn):	<0.200 U
						Zirconium (Zr):	<0.100 U

Field Chemistry and Other Analytical Results

**Total Dissolved Solids (mg/L):	164.81	Field Hardness as CaCO ₃ (mg/L):	NR	Ammonia (mg/L):	NR
**Sum of Diss. Constituents (mg/L):	233.31	Hardness as CaCO ₃ :	98.61	T.P. Hydrocarbons (µg/L):	NR
Field Conductivity (µmhos):	232	Field Alkalinity as CaCO ₃ (mg/L):	96	PCP (µg/L):	NR
Lab Conductivity (µmhos):	221.2	Alkalinity as CaCO ₃ (mg/L):	110.72	Phosphorus, TD (mg/L):	<0.030 U
Field pH:	7.61	Ryznar Stability Index:	8.381	Field Nitrate (mg/L):	0.000
Lab pH:	7.61	Sodium Adsorption Ratio:	0.6573	Field Dissolved O ₂ (mg/L):	6.560
Water Temp (°C):	11.1	Langlier Saturation Index:	-0.385	Field Chloride (mg/L):	NR
Air Temp (°C):	NR	Nitrite (mg/L as N):	<0.010 U	Field Redox (mV):	135.6
Nitrate + Nitrite (mg/L as N)	0.340	Hydroxide (mg/L as OH):	0.000	Lab, Dissolved Organic Carbon (mg/L):	NR
Total Kjeldahl Nitrogen (mg/L as N)	NR	Lab, Dissolved Inorganic Carbon (mg/L):	NR	Lab, Total Organic Carbon (mg/L):	NR
Total Nitrogen (mg/L as N)	1.070	Acidity to 4.5 (mg/L CaCO ₃)	NR	Acidity to 8.3 (mg/L CaCO ₃)	NR
As(III) (ug/L)	NR	As(V) (ug/L)	NR	Total Susp Solids (mg/L)	NR

Sample Condition: CLEAR

Notes

Field Remarks:

Lab Remarks:

Explanation: mg/L = milligrams per Liter; µg/L = micrograms per Liter; ft = feet; NR = No Reading in GWIC

Qualifiers: A = Hydride atomic absorption; E = Estimated due to interference; H = Exceeded holding time; J = Estimated quantity above detection limit but below reporting limit; K = Na+K combined; N = Spiked sample recovery not within control limits; P = Preserved sample; S = Method of standard additions; U = Undetected quantity below detection limit; * = Duplicate analysis not within control limits; ** = Sum of Dissolved Constituents is the sum of major cations (Na, Ca, K, Mg, Mn, Fe) and anions (HCO₃, CO₃, SO₄, Cl, SiO₂, NO₃, F) in mg/L. Total Dissolved Solids is reported as equivalent weight of evaporation residue.

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