

Peak Health & Fitness Center well

MONTANA WELL LOG REPORT

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Site Name: SCHARBAUER PAMELA R.
GWIC Id: 67088

Section 7: Well Test Data

Total Depth: 120
Static Water Level: 11
Water Temperature:

Section 1: Well Owner

Owner Name

SCHARBAUER PAMELA R

Mailing Address

WESTERN MT SPORTS MED. PO BOX 5066

City **State** **Zip Code**

MISSOULA MT 59806

Pump Test *

Depth pump set for test _ feet.
100 gpm pump rate with _ feet of drawdown after 3 hours of pumping.
Time of recovery _ hours.
Recovery water level _ feet.
Pumping water level 55 feet.

Section 2: Location

Township	Range	Section	Quarter Sections
12N	20W	2	SW¼ NW¼

County	Geocode
MISSOULA	

Latitude	Longitude	Geomethod	Datum
46.828828	114.085347	TRS-SEC	NAD83

Altitude	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	Block	Lot

Section 8: Remarks

Section 3: Proposed Use of Water

MEDICAL (1)

Section 4: Type of Work

Drilling Method: ROTARY

Section 5: Well Completion Date

Date well completed: Wednesday, April 16, 1986

Section 6: Well Construction Details

There are no borehole dimensions assigned to this well.

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-2	118.8	6				STEEL

Completion (Perf/Screen)

From	To	Diameter	# of Openings	Size of Openings	Description
55	118.6			1/8X1	PULL DOWN SLOTS

Annular Space (Seal/Grout/Packer)

From	To	Description	Cont. Fed?
0	22	CEMENT	

Section 9: Well Log

Geologic Source

400BELT - BELT SUPERGROUP

From	To	Description
0	17	CLAY AND GRAVEL
17	50	CLAY SAND GRAVEL AND WATER
50	55	BROWN BROKEN ROCK AND WATER
55	57	BROWN BROKEN ROCK
57	63	BROWN ROCK
63	118	PINK ROCK AND WATER
118	120	PINK ROCK

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: CAMP WELL DRILLING License No: WWC-7 Date Completed: 4/16/1986
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Site Name: GILLILAND STAN AND OTIS
GWIC Id: 67079

Section 7: Well Test Data

Total Depth: 60
Static Water Level: 15
Water Temperature:

Section 1: Well Owner

Owner Name

GILLILAND STAN AND OTIS

Mailing Address

5120 HWY 93 S

City

MISSOULA

State

MT

Zip Code

59801

Air Test *

12 gpm with drill stem set at feet for 1 hours.
Time of recovery hours.
Recovery water level feet.
Pumping water level 45 feet.

Section 2: Location

Township	Range	Section	Quarter	Sections
12N	20W	2		
County		Geocode		
MISSOULA				
Latitude	Longitude	Geomethod	Datum	
46.827025	114.077412	TRS-SEC	NAD83	
Altitude	Method	Datum	Date	
Addition	Block	Lot		

* 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 3: Proposed Use of Water

DOMESTIC (1)

Section 4: Type of Work

Drilling Method: ROTARY

Section 5: Well Completion Date

Date well completed: Friday, November 15, 1985

Section 6: Well Construction Details

There are no borehole dimensions assigned to this well.

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-1.5	59	6				STEEL

Completion (Perf/Screen)

From	To	Diameter	# of Openings	Size of Openings	Description
35	59	6		1/8X1	PULL DOWN SLOTS

Annular Space (Seal/Grout/Packer)

There are no annular space records assigned to this well.

Section 8: Remarks

Section 9: Well Log

Geologic Source

400BELT - BELT SUPERGROUP

From	To	Description
0	12	SANDY CLAY
12	19	CLAY SAND AND GRAVEL
19	23	CLAY SAND AND GRAVEL AND WATER
23	28	PINK CLAY
28	34	PINK CLAY AND PINK BROKEN ROCK
34	60	PINK ROCK AND WATER
60	80	PINK ROCK

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: CAMP WELL DRILLING
License No: WWC-7
Date Completed: 11/15/1985

MONTANA WELL LOG REPORT

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Site Name: VAN ALLEN J.L.
GWIC Id: 67083

Section 7: Well Test Data

Total Depth: 105
Static Water Level: 60
Water Temperature:

Section 1: Well Owner

Owner Name

VAN ALLEN J.L.

Mailing Address

223 WEST ALDER

City State Zip Code

MISSOULA MT

Bailer Test *

12 gpm with feet of drawdown after 0.5 hours.
Time of recovery hours.
Recovery water level feet.
Pumping water level 60 feet.

Section 2: Location

Township	Range	Section	Quarter Sections
12N	20W	2	

County	Geocode
MISSOULA	

Latitude	Longitude	Geomethod	Datum
46.827025	114.077412	TRS-SEC	NAD83

Altitude	Method	Datum	Date

Addition	Block	Lot

* 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 3: Proposed Use of Water

DOMESTIC (1)

Section 8: Remarks

Section 4: Type of Work

Drilling Method:

Section 9: Well Log

Geologic Source

120SDMS - SEDIMENTS (TERTIARY)

From	To	Description
0	1	TOPSOIL
1	29	GRAVEL BOULDERS AND CLAY
29	35	BOULDERS
35	38	GRAVEL CLAY SMALL BOULDERS
38	41	BOULDERS AND CLAY
41	50	GRAVEL CLAY AND COBBLESTONES
50	70	CLAY GRAVEL SAND ABOUT 1.5 GPM WATER AT 70 FEET
70	78	CLAY AND GRAVEL
78	80	BROKEN SOFT RED ROCK
80	87	SMALL GRAVEL AND SILT A LITTLE WATER
87	103	SILTY AND SANDY CLAY
103	106	WATER GRAVEL AND SAND

Section 5: Well Completion Date

Date well completed: Monday, March 30, 1959

Section 6: Well Construction Details

There are no borehole dimensions assigned to this well.

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-1	105	6				IRON

Completion (Perf/Screen)

From	To	Diameter	# of Openings	Size of Openings	Description
105	105	6			OPEN BOTTOM *

Annular Space (Seal/Grout/Packer)

There are no annular space records assigned to this well.

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: CAMP WELL DRILLING
License No.:
Date Completed: 3/30/1959

Area Well Logs From MBMG GWIC

Location (TRS): 12N 20W 02 CABB	Agency/Sampler: MBMG / CAC
Latitude/Longitude: 46° 49' 30" N 114° 4' 50" W	Field Number: 1024991
Datum: NAD27	Lab Date: 1/12/2000
Altitude: 3185	Lab/Analyst: MBMG / JMC
County/State: MISSOULA / MT	Sample Method/Handling: PUMPED / 4220
Site Type: WELL	Procedure Type: DISSOLVED
Geology: 400BELT	Total Depth (ft): 180
USGS 7.5' Quad: SW MISSOULA	SWL-MP (ft): 74.24
PWS Id:	Depth Water Enters (ft): 150
Project: GWCP04	

Major Ion Results

	mg/L	meq/L		mg/L	meq/L
Calcium (Ca)	32.200	1.607	Bicarbonate (HCO3)	164.700	2.699
Magnesium (Mg)	17.500	1.440	Carbonate (CO3)	0.000	0.000
Sodium (Na)	21.500	0.935	Chloride (Cl)	30.420	0.858
Potassium (K)	0.927	0.024	Sulfate (SO4)	10.110	0.211
Iron (Fe)	<.01	0.000	Nitrate (as N)	3.911 P	0.279
Manganese (Mn)	0.004	0.000	Fluoride (F)	0.231	0.012
Silica (SiO2)	19.100		Orthophosphate (OPO4)	<.05	0.000
Total Cations		4.011	Total Anions		4.060

Trace Element Results (µg/L)

Aluminum (Al):	<60	Cesium (Cs):	NR	Molybdenum (Mo):	<10	Strontium (Sr):	224.000
Antimony (Sb):	<2	Chromium (Cr):	<2	Nickel (Ni):	2.600	Thallium (Tl):	<5
Arsenic (As):	1.420	Cobalt (Co):	<2	Niobium (Nb):	NR	Thorium (Th):	NR
Barium (Ba):	215.000	Copper (Cu):	7.910	Neodymium (Nd):	NR	Tin (Sn):	NR
Beryllium (Be):	<2	Gallium (Ga):	NR	Palladium (Pd):	NR	Titanium (Ti):	<20
Boron (B):	<30	Lanthanum (La):	NR	Praseodymium (Pr):	NR	Tungsten (W):	NR
Bromide (Br):	52.200	Lead (Pb):	<2	Rubidium (Rb):	NR	Uranium (U):	NR
Cadmium (Cd):	<2	Lithium (Li):	13.600	Silver (Ag):	<1	Vanadium (V):	<5
Cerium (Ce):	NR	Mercury (Hg):	NR	Selenium (Se):	<1	Zinc (Zn):	3.790
						Zirconium (Zr):	<10

Field Chemistry and Other Analytical Results

**Total Dissolved Solids (mg/L):	212.990	Field Hardness as CaCO3 (mg/L):	NR	Ammonia (mg/L):	NR
**Sum of Diss. Constituents (mg/L):	296.710	Hardness as CaCO3:	152.430	T.P. Hydrocarbons (µg/L):	NR
Field Conductivity (µmhos):	386	Field Alkalinity as CaCO3 (mg/L):	164	PCP (µg/L):	NR
Lab Conductivity (µmhos):	377	Alkalinity as CaCO3 (mg/L):	135.33	Phosphate, TD (mg/L as P):	<.2
Field pH:	8.2	Ryznar Stability Index:	7.922	Field Nitrate (mg/L):	2.000
Lab pH:	7.8	Sodium Adsorption Ratio:	0.775	Field Dissolved O2 (mg/L):	NR
Water Temp (°C):	12	Langlier Saturation Index:	-0.061	Field Chloride (mg/L):	NR
Air Temp (°C):	NR	Nitrite (mg/L as N):	NR	Field Redox (mV):	242.9
		Hydroxide (mg/L as OH):	NR		

Notes

Sample Condition: CLEAR
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; K = Na+K combined; N = Spiked sample recovery not within control limits; P = Preserved sample; S = Method of standard additions; * = 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.

Disclaimer

These data represent the contents of the GWIC databases at the Montana Bureau of Mines and Geology at the time and date of the retrieval. The information is considered unpublished and is subject to correction and review on a daily basis. The Bureau warrants the accurate transmission of the data to the original end user. Retransmission of the data to other users is discouraged and the Bureau claims no responsibility if the material is retransmitted.

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Site Name: WONRATH GUS
GWIC Id: 706263

Section 7: Well Test Data

Total Depth: 197
Static Water Level:
Water Temperature:

Section 1: Well Owner

Owner Name

N/A

Unknown Test Method *

Yield 11 gpm.
Pumping water level _ feet.
Time of recovery _ hours.
Recovery water level _ feet.

Section 2: Location

Township	Range	Section	Quarter Sections
12N	20W	2	NE¼ SW¼
County		Geocode	

MISSOULA

Latitude	Longitude	Geomethod	Datum
46.825	114.0786	MAP	NAD27

Altitude	Method	Datum	Date
3156			

Addition	Block	Lot

* 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 3: Proposed Use of Water

DOMESTIC (1)

Section 8: Remarks

Section 4: Type of Work

Drilling Method: CABLE

Section 9: Well Log

Geologic Source

400BELT - BELT SUPERGROUP

Lithology Data

Section 5: Well Completion Date

Date well completed: Thursday, January 01, 1959

There are no lithologic details assigned to this well.

Section 6: Well Construction Details

There are no borehole dimensions assigned to this well.

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.

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint Type
0	197	6			

There are no completion records assigned to this well.

Annular Space (Seal/Grout/Packer)

There are no annular space records assigned to this well.

Name:
Company:
License No: -
Date Completed: 1/1/1959

Ground-Water Information Center Water Quality Report

Site Name: RUSS SAGE/SAGES REC

Report Date: 4/16/2008

Location Information

Sample Id/Site Id: 2000Q0415 / 67120	Sample Date: 10/24/1999 5:48:00 PM
Location (TRS): 12N 20W 02 DBCA	Agency/Sampler: MBMG / CAC
Latitude/Longitude: 46° 49' 27" N 114° 4' 26" W	Field Number: 67120
Datum: NAD27	Lab Date: 1/12/2000
Altitude: 3130	Lab/Analyst: MBMG / JMC
County/State: MISSOULA / MT	Sample Method/Handling: PUMPED / 4220
Site Type: WELL	Procedure Type: DISSOLVED
Geology: 112ALVM	Total Depth (ft): 51
USGS 7.5' Quad: SW MISSOULA	SWL-MP (ft): 9.7
PWS Id:	Depth Water Enters (ft): 51
Project: GWCP04	

Major Ion Results

	mg/L	meq/L		mg/L	meq/L
Calcium (Ca)	10.200	0.509	Bicarbonate (HCO3)	54.900	0.900
Magnesium (Mg)	2.310	0.190	Carbonate (CO3)	0.000	0.000
Sodium (Na)	3.650	0.159	Chloride (Cl)	1.064	0.030
Potassium (K)	1.060	0.027	Sulfate (SO4)	2.970	0.062
Iron (Fe)	0.037	0.002	Nitrate (as N)	<.5 P	0.000
Manganese (Mn)	0.003	0.000	Fluoride (F)	0.115	0.006
Silica (SiO2)	11.800		Orthophosphate (OPO4)	<.05	0.000
Total Cations		0.888	Total Anions		0.998

Trace Element Results (µg/L)

Aluminum (Al): <60	Cesium (Cs): NR	Molybdenum (Mo): <10	Strontium (Sr): 47.400
Antimony (Sb): <2	Chromium (Cr): <2	Nickel (Ni): <2	Thallium (Tl): <5
Arsenic (As): <1	Cobalt (Co): <2	Niobium (Nb): NR	Thorium (Th): NR
Barium (Ba): 29.300	Copper (Cu): <2	Neodymium (Nd): NR	Tin (Sn): NR
Beryllium (Be): <2	Gallium (Ga): NR	Palladium (Pd): NR	Titanium (Ti): <20
Boron (B): <30	Lanthanum (La): NR	Praseodymium (Pr): NR	Tungsten (W): NR
Bromide (Br): <50	Lead (Pb): <2	Rubidium (Rb): NR	Uranium (U): NR
Cadmium (Cd): <2	Lithium (Li): <10	Silver (Ag): <1	Vanadium (V): <5
Cerium (Ce): NR	Mercury (Hg): NR	Selenium (Se): <1	Zinc (Zn): 7.950
			Zirconium (Zr): <10

Field Chemistry and Other Analytical Results

**Total Dissolved Solids (mg/L): 60.610	Field Hardness as CaCO3 (mg/L): NR	Ammonia (mg/L): NR
**Sum of Diss. Constituents (mg/L): 88.520	Hardness as CaCO3: 34.980	T.P. Hydrocarbons (µg/L): NR
Field Conductivity (µmhos): 91	Field Alkalinity as CaCO3 (mg/L): 196	PCP (µg/L): NR
Lab Conductivity (µmhos): 79	Akalinity as CaCO3 (mg/L): 45.11	Phosphate, TD (mg/L as P): <.2
Field pH: 7	Ryznar Stability Index: 10.654	Field Nitrate (mg/L): 0.000
Lab pH: 7.02	Sodium Adsorption Ratio: 0.294	Field Dissolved O2 (mg/L): NR
Water Temp (°C): 9.7	Langlier Saturation Index: -1.817	Field Chloride (mg/L): NR
Air Temp (°C): NR	Nitrite (mg/L as N): NR	Field Redox (mV): 201
	Hydroxide (mg/L as OH): NR	

Notes

Sample Condition: CLEAR

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; K = Na+K combined; N = Spiked sample recovery not within control limits; P = Preserved sample; S = Method of standard additions; * = 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.

