



Water-Data Report 2006

462342112174601 Local number 08N06W36DCBC01 (BUCKEYE WELL BTMW-6)

Quaternary Alluvium
Jefferson County, MT

LOCATION.--Lat 46°23'42", long 112°17'46" referenced to North American Datum of 1927, in NW ¼ SW ¼ SE ¼ sec.36, T.8 N., R.6 W., Jefferson County, MT, Hydrologic Unit 10020006.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Depth 10 ft. Upper casing diameter 2 in; top of first opening 4.5 ft, bottom of last opening 9.5 ft. Drilled Oct. 22, 1998.

DATUM.--Land-surface datum is 7,035 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of PVC casing, 4.3 ft above land-surface datum, June 15, 2006 to present.

PERIOD OF RECORD.--December 1998 to current year.

REMARKS.--All water levels are reported as distance, in feet below land-surface datum. No valid water levels are available from June 14, 1999 to June 14, 2006 due to frost upheaval of casing and measuring point; water-level data for this period have been removed from the database. The measuring point was resurveyed in June 2006 and subsequent water levels are considered reliable.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM (READINGS ABOVE LAND-SURFACE INDICATED BY "+")

WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

[Measurement method: T, electric tape. Water-level status: --, static.]

Date	Water level	Measure-ment method	Water level status	Date	Water level	Measure-ment method	Water level status
Jun 15	.07	T	--	Sep 11	3.26	T	--

Water year 2006 highest: .07 Jun 15, 2006; lowest: 3.26 Sep 11, 2006

Period of record highest: +.22 Jun 14, 1999; lowest: 3.26 Sep 11, 2006

Record available from Dec 01, 1998, to Sep 11, 2006; 7 entries

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1999, July 2004 to current year.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
 Part 1 of 3

Date	Time	Pump or flow period prior to sampling, minutes (72004)	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat un f uS/cm 25 degC (00095)	Temper-ature, deg C (00010)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)	Sodium adsorp-tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)
Jun 16...	1000	3	--	6.1	396	5.0	160	47.8	10.2	3.23	.3	9.52
Sep 11...	1240	--	1.1	6.8	388	10.0	140	42.9	8.82	3.18	.5	13.3

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
 Part 2 of 3

Date	Alka-linity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Alka-linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti-tuents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)
Jun 16...	97	87	.52	.11	16.9	87.8	234	.32
Sep 11...	86	86	.47	.16	16.8	89.9	230	.31

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
 Part 3 of 3
 [Remark codes: <, less than.]

Date	Alum-inum, water, fltrd, ug/L (01106)	Arsenic water, fltrd, ug/L (01000)	Cadmium water, fltrd, ug/L (01025)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Mangan-ese, water, fltrd, ug/L (01056)	Zinc, water, fltrd, ug/L (01090)
Jun 16...	<1.6	10.1	.12	2.2	2,570	<.08	3,410	8.7
Sep 11...	134	5.4	.17	.70	223	.58	2,900	6.8