



Water-Data Report 2008

441759103261202 Local number 4N6E19AABA2

Paleozoic aquifers
Madison Group (Upper and Lower Mississippian)
Meade County, SD

LOCATION.--Lat 44°17'59.7", long 103°26'12.2" referenced to North American Datum of 1983, in NW ¼ NW ¼ NE ¼ sec.19, T.4 N., R.6 E., Meade County, SD, Hydrologic Unit 10120111, at Interstate 90 Tilford exit. Owner: South Dakota Department of Environment and Natural Resources.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Drilled observation water well, diameter 5 in, depth 840 ft, 750 ft of 5-in steel casing. Open hole from 750 to 840 ft.

DATUM.--Measuring point Oct. 1, 2002, to Dec. 27, 2002, -4.1 ft where reference gage was mounted. Dec. 27, 2002, to Apr. 13, 2004, -4.0 ft at red dot on well fittings. Apr. 13, 2004, to June 18, 2008, -3.2 ft. June 18, 2008 to Present, -3.73 ft. Elevation of land-surface datum is 3,639.1 ft above NGVD of 1988.

PERIOD OF RECORD.--July 1991 to September 1998 published in Black Hills Hydrology Study, Open-File Reports 94-319, 96-399, and 00-70, October 2002 to current year. Records from October 1998 to September 2002 are unpublished and available in files of the U.S. Geological Survey.

GAGE.--Satellite data-collection platform and submersible transducer.

REMARKS.--Well was open and flowing from August 1 to September 30, water level was known to be higher than -3.75 ft.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, -34.34 ft. below land-surface datum (pressure head), June 15, 1997; lowest water level, 54.96 ft. below land-surface datum, Mar. 31, Apr. 1,3,7, 1993.

EXTREMES FOR CURRENT YEAR.--Highest water level, higher than -3.75ft. below land-surface datum (pressure head), August 1 to Spetember 30; lowest water level, 27.06 ft. below land-surface datum, April 26.

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DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MAXIMUM VALUES

[- (minus sign), value is water level above land surface]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	17.91	19.06	21.65	22.89	24.44	26.39	26.45	7.48	-2.05	---	---
2	17.39	18.13	19.38	21.61	22.94	24.85	26.32	26.67	6.84	-1.92	---	---
3	17.32	18.03	19.41	21.11	22.87	24.83	26.33	26.66	6.20	-1.97	---	---
4	17.41	18.03	19.27	21.01	23.29	24.80	26.32	26.32	5.50	-2.13	---	---
5	17.29	18.35	---	21.02	23.29	24.94	26.17	26.12	4.85	-2.29	---	---
6	17.40	18.32	---	21.15	23.24	25.10	26.48	25.48	4.18	-2.26	---	---
7	17.54	18.10	---	21.51	23.24	25.10	26.47	24.94	3.22	-2.32	---	---
8	17.61	18.20	---	21.51	23.25	24.99	26.54	24.16	2.35	-2.30	---	---
9	17.72	18.20	---	21.60	23.78	25.20	26.45	23.26	1.54	-2.28	---	---
10	17.71	18.01	---	21.61	23.79	25.26	26.53	21.99	0.85	-2.54	---	---
11	17.50	18.40	---	21.70	23.55	25.12	26.78	21.13	0.06	-2.38	---	---
12	17.50	18.40	19.97	21.86	23.61	25.03	26.95	19.78	-0.57	-2.30	---	---
13	17.52	18.40	20.12	22.01	23.46	25.04	26.94	19.38	-0.88	-2.39	---	---
14	17.59	18.65	20.15	22.05	23.84	25.24	26.73	18.89	-1.08	-2.59	---	---
15	17.59	18.65	20.16	21.88	23.85	25.30	26.37	18.44	-1.18	-2.53	---	---
16	17.42	18.31	20.10	22.14	23.74	25.44	26.78	18.03	---	-2.57	---	---
17	17.15	18.40	20.05	22.03	23.88	25.44	26.81	17.54	---	-2.51	---	---
18	17.32	18.42	20.23	22.39	23.95	25.52	26.68	17.04	---	-2.64	---	---
19	17.34	18.61	20.19	22.35	24.14	25.63	26.60	16.46	-1.68	-2.82	---	---
20	17.44	18.91	20.14	22.47	24.14	25.73	26.61	16.30	-1.64	-2.86	---	---
21	17.93	19.05	20.68	22.48	24.03	25.94	26.85	15.76	-1.67	-2.95	---	---
22	17.93	19.02	20.67	22.46	24.03	26.15	26.84	15.30	-1.79	-3.04	---	---
23	17.99	18.95	20.71	22.51	24.20	26.14	26.84	14.98	-1.90	-3.16	---	---
24	17.99	18.89	20.70	22.51	24.20	25.72	26.85	14.33	-1.95	-3.16	---	---
25	17.86	19.01	20.80	22.41	24.61	25.92	26.87	13.09	-1.98	-3.11	---	---
26	18.17	19.11	20.80	22.53	24.63	25.93	27.06	12.16	-2.04	-3.31	---	---
27	18.18	19.11	20.80	22.48	24.50	25.94	27.04	11.44	-2.03	-3.50	---	---
28	18.07	19.14	20.81	22.35	24.57	26.08	26.88	10.61	-1.85	-3.64	---	---
29	18.00	19.33	20.71	22.57	24.61	26.01	26.67	9.45	-1.74	-3.51	---	---
30	17.99	19.37	20.83	22.81	---	26.20	26.46	8.62	-1.89	-3.69	---	---
31	18.08	---	21.38	22.80	---	26.36	---	8.06	---	-3.59	---	---
Max	---	19.37	---	22.81	24.63	26.36	27.06	26.67	---	-1.92	---	---

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