

ELK COUNTY

412458078324601. Local number, EK 108.

LOCATION.--Lat 41°24'58", long 78°32'46", Hydrologic Unit 05010005, at St. Marys.

Owner: St. Marys Municipal Joint Water Authority.

AQUIFER.--Pottsville Group of Middle Pennsylvanian age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 12 in, depth 340 ft, cased to 40 ft, open hole.

INSTRUMENTATION.--Continuous strip-chart recorder. Data collection platform with 60-minute recording interval since July 25, 2001. Satellite telemetry at station.

DATUM.--Elevation of land-surface datum is 1,740 ft above sea level, from topographic map. Measuring point: Top of plywood instrument shelf, 2.65 ft above land-surface datum. Prior to July 25, 2001, top of casing, 2.30 ft above land-surface datum.

PERIOD OF RECORD.--October 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Prior to October 2000, the extremes shown were based on extremes of the daily maximum depth below land-surface datum. Since that date, the extremes are based on the instantaneous depth below land-surface datum.

Highest water level, 1.95 ft below land-surface datum, Mar. 4, 1991; lowest, 9.24 ft below land-surface datum, Jan. 21, 1996.

EXTREMES FOR CURRENT YEAR.--Highest water level, 4.19 ft below land-surface datum, Apr. 12; lowest, 7.32 ft below land-surface datum, Sept. 23.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.50	6.36	6.49	5.86	5.81	5.12	4.36	4.75	5.25	5.50	6.80	7.02
2	6.46	6.36	6.56	5.87	5.76	5.10	4.57	4.80	5.20	5.58	6.75	7.04
3	6.50	6.36	6.57	5.80	5.79	5.26	4.61	4.85	5.17	5.66	6.68	7.02
4	6.53	6.35	6.50	5.75	5.75	5.25	4.70	4.87	5.27	5.60	6.68	7.08
5	6.54	6.38	6.36	5.68	5.65	5.12	4.68	4.88	5.31	5.68	6.76	7.14
6	6.35	6.46	6.40	5.74	5.71	5.25	4.50	4.96	5.30	5.80	6.74	7.15
7	6.36	6.42	6.33	5.78	5.83	5.39	4.40	4.97	5.28	5.80	6.72	7.10
8	6.36	6.46	6.46	5.81	5.84	5.33	4.33	4.96	5.29	5.75	6.69	7.14
9	6.35	6.39	6.60	5.86	5.68	5.35	4.26	4.96	5.30	5.80	6.70	7.18
10	6.30	6.38	6.55	5.91	5.63	5.40	4.39	4.93	5.33	5.80	6.74	7.22
11	6.38	6.52	6.45	5.92	5.70	5.46	4.40	4.92	5.33	5.90	6.77	7.24
12	6.42	6.50	6.57	5.95	5.69	5.46	4.40	4.97	5.32	5.95	6.77	7.26
13	6.40	6.40	6.58	5.97	5.50	5.16	4.30	5.10	5.45	5.98	6.76	7.23
14	6.34	6.38	6.31	5.96	5.40	5.13	---	5.10	5.52	6.12	6.76	7.25
15	6.34	6.42	6.41	5.90	5.23	5.12	---	5.03	5.52	6.18	6.78	7.22
16	6.37	6.41	6.32	5.91	5.25	5.04	---	5.00	5.54	6.20	6.80	7.18
17	6.38	6.50	6.00	5.92	5.36	5.10	---	5.04	5.57	6.21	6.82	7.19
18	6.30	6.55	6.07	5.91	5.35	5.15	---	5.06	5.68	6.27	6.84	7.20
19	6.27	6.52	6.02	5.80	5.31	5.14	---	5.11	5.67	6.30	6.80	7.21
20	6.30	6.50	5.93	5.80	5.20	5.03	4.90	5.20	5.70	6.40	6.89	7.22
21	6.35	6.57	5.91	5.97	5.43	4.98	4.86	5.20	5.70	6.38	6.95	7.25
22	6.40	6.60	5.86	6.05	5.40	4.55	4.82	5.12	5.59	6.39	6.98	7.30
23	6.41	6.70	5.87	6.00	5.48	4.46	4.77	5.10	5.53	6.40	6.94	7.32
24	6.35	6.71	5.87	5.76	5.52	4.57	4.78	5.12	5.58	6.40	7.00	7.23
25	6.33	6.68	5.86	5.97	5.25	4.62	4.84	5.18	5.61	6.65	7.01	7.14
26	6.28	6.50	5.86	5.98	5.38	4.65	4.83	5.19	5.65	6.77	6.98	7.13
27	6.30	6.40	5.86	5.95	5.36	4.74	4.74	5.12	5.65	6.81	6.95	7.12
28	6.35	6.48	5.85	6.00	5.27	4.77	4.86	5.11	5.60	6.77	7.02	7.19
29	6.34	6.49	5.85	6.01	---	4.69	4.95	5.20	5.60	6.68	7.07	7.22
30	6.33	6.49	5.85	5.80	---	4.60	4.87	5.27	5.55	6.72	7.05	7.23
31	6.36	---	5.84	5.70	---	4.38	---	5.30	---	6.78	7.02	---
MEAN	6.37	6.47	6.19	5.88	5.52	5.01	4.63	5.04	5.47	6.17	6.85	7.18
MAX	6.54	6.71	6.60	6.05	5.84	5.46	4.95	5.30	5.70	6.81	7.07	7.32
MIN	6.27	6.35	5.84	5.68	5.20	4.38	4.26	4.75	5.17	5.50	6.68	7.02

