CHEMICAL AND PHYSICAL DATA RELATED TO GROUND WATER IN THE VICINITY OF ABANDONED URANIFEROUS LIGNITE MINES, WESTERN NORTH DAKOTA, DECEMBER 1983 THROUGH JUNE 1988

By J. D. Wald

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CONVERSION FACTORS, VERTICAL DATUM, AND ABBREVIATED WATER-QUALITY UNITS

Multiply	By	To obtain
acre	0.4047	hectare
foot (ft)	0.3048	meter
inch (in.)	25.4	millimeter
mile (mi)	1.609	kilometer

To convert degrees Celsius (°C) to degrees Fahrenheit (°F), use the following formula: °F = 9/5(°C)+32.

Sea level: In this report, "sea level" refers to the National Geodetic Vertical Datum of 1929--a geodetic datum derived from a general adjustment of the first-order level nets of the United States and Canada, formerly called Sea Level Datum of 1929.

Liter (L): A unit of volume equal to 1,000 milliliters.

Micrograms per liter (µg/L): A unit expressing the concentration of a chemical constituent in solution as weight (micrograms) of solute per unit volume (liter) of water.

Micrometer (µm): A unit of length equal to one one-millionth of a meter.

Microsiemens per centimeter at 25 degrees Celsius (µS/cm): A unit that replaces micromhos per centimeter at 25 degrees Celsius used for specific conductance in older reports. The two units are equivalent.

Milligrams per liter (mg/L): A unit expressing the concentration of a chemical constituent in solution as weight (milligrams) of solute per unit volume (liter) of water; 1 mg/L equals 1,000 micrograms per liter (µg/L).

Milliliter (mL): A unit of volume equal to one one-thousandth of a liter.

Millimeter (mm): A unit of length equal to one one-thousandth of a meter.

Picocurie (pCi): A unit of radioactivity equal to one one-trillionth of a Curie, which is equal to 3.7×10^{10} radioactive disintegrations per second.

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ABSTRACT

Geochemical and hydrologic data were collected in and around six abandoned uraniferous lignite mines in western North Dakota during December 1983 through June 1988. These data include well-construction and field water-quality data for 224 wells, test holes, and springs. Also included are water levels in selected wells, lithologic logs of selected wells and test holes, physical properties and major-ion and nutrient concentrations of water samples from selected wells and springs, trace-element analyses of water samples from selected wells and springs, radiochemical analyses of water samples from selected wells and springs, and grain-size analyses of rock samples from selected wells and test holes. Analytical methods and detection levels for determination of chemical constituents are included as well as township-range location numbers and corresponding latitude-longitude numbers.

INTRODUCTION

Between 1955 and 1967, uraniferous lignite was mined at several sites in western North Dakota to obtain uranium ore. Uranium ore was concentrated at these sites by burning the host lignite, which left a residual uranium-rich ash. The ash then was removed for further processing in other states. When the uraniferous lignite mines were abandoned in the late 1960's, partially burned uranium ore and other potentially hazardous materials were left in open pits and on spoils piles. Soluble materials have been leached from the uraniferous wastes by precipitation on spoils piles and water ponded in the pits. The potentially hazardous leachates may have migrated to ground water beneath the mines.

To minimize potential migration of hazardous materials from the largest of the abandoned mines, the North Dakota Public Service Commission undertook a program of mine reclamation. One part of the reclamation program included the installation of ground-water monitoring wells in and around the abandoned mines. This part of the program was a cooperative effort between the U.S. Geological Survey and the North Dakota Public Service Commission. Ground-water samples were obtained for chemical analyses before and after reclamation of the abandoned mines. Geochemical data collected before the mines were reclaimed provide a baseline to determine the effects of reclamation on ground-water compositions.

The purpose of this report is to provide geochemical and hydrologic data that were collected during this study. The geochemical data may be used to define spatial variations in ground-water chemistry around the mines, and the hydrologic data may be used to estimate the directions of ground-water flow. All of these data will be useful in evaluating the effectiveness of reclamation efforts in and around six abandoned uraniferous lignite mines in western North Dakota and in determining whether the reclamation program has succeeded in isolating uraniferous wastes from contact with ground and surface water.

The study area is located near the city of Belfield in western North Dakota (fig. 1). The study area consists of three mine sites in Billings County, one mine site in Slope County, and two mine sites in Stark County.

The township-range location-numbering system used to identify wells, test holes, and springs in this report (fig. 2) is based on the Federal system of rectangular surveys of the public lands. The first number denotes the township north of a base line, the second number denotes the range west of the fifth principal meridian, and the third number denotes the section in which the well, test hole, or spring is located. The letters A, B, C, and D designate, respectively, the northeast, northwest, southwest, and southeast quarter section, quarter-quarter section, quarter-quarter-quarter section, and quarter-quarter-quarter-quarter section (2.5-acre tract); thus, well 142-099-15DCD would be located in the SE¼SW¼SE¼ sec. 15, T. 142 N., R. 99 W. Consecutive terminal numbers are added if more than one well, test hole, or spring is located within a 2.5-acre tract.

The latitude-longitude location-numbering system used to identify wells, test holes, or springs consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude; the next seven digits denote the degrees, minutes, and seconds of longitude; and the last two digits identify more than one well, test hole, or spring in a 1-second grid.

WELL CONSTRUCTION AND DEVELOPMENT

The ground-water monitoring wells installed in and around the abandoned mines were constructed with an air-rotary drilling method, which does not introduce outside water into the aquifer. The wells were constructed with 2-in. diameter polyvinyl-chloride casing and had 6 ft of 12- or 18-slot (0.012 or 0.018 in. slot size) screen at the bottom. Casing joints were glued with solvent glue. The annular space around the screen was filled with graded silica sand, a bentonite plug about 2 ft thick was placed above the sand pack, and a layer of nonshrinking cement about 10 ft thick was placed above the bentonite. The remaining open hole was filled with drill cuttings. Wells were developed with airlift methods, where possible, or bailing methods where airlift would not work.

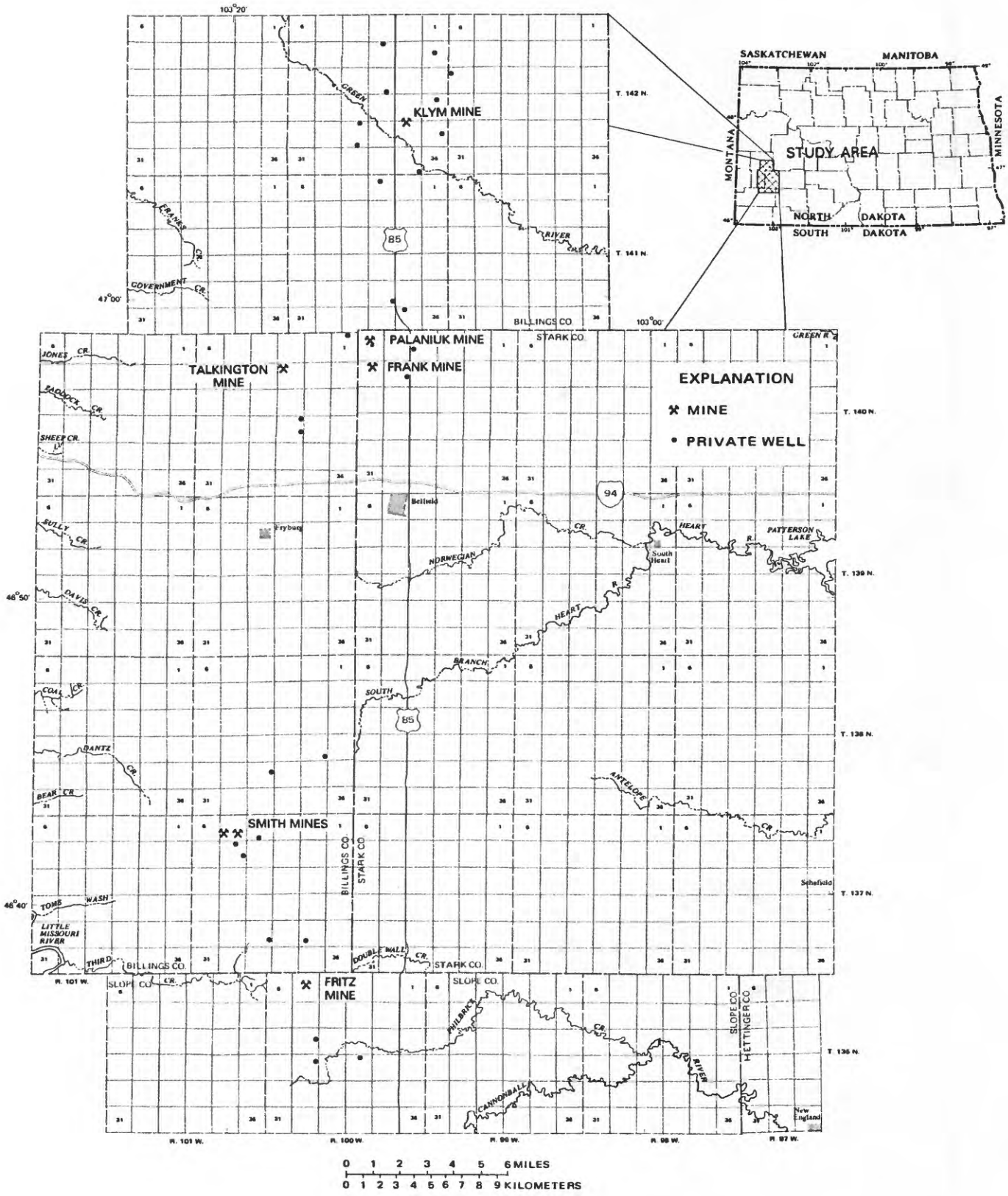

Figure 1.--Location of mines and private wells in study area.

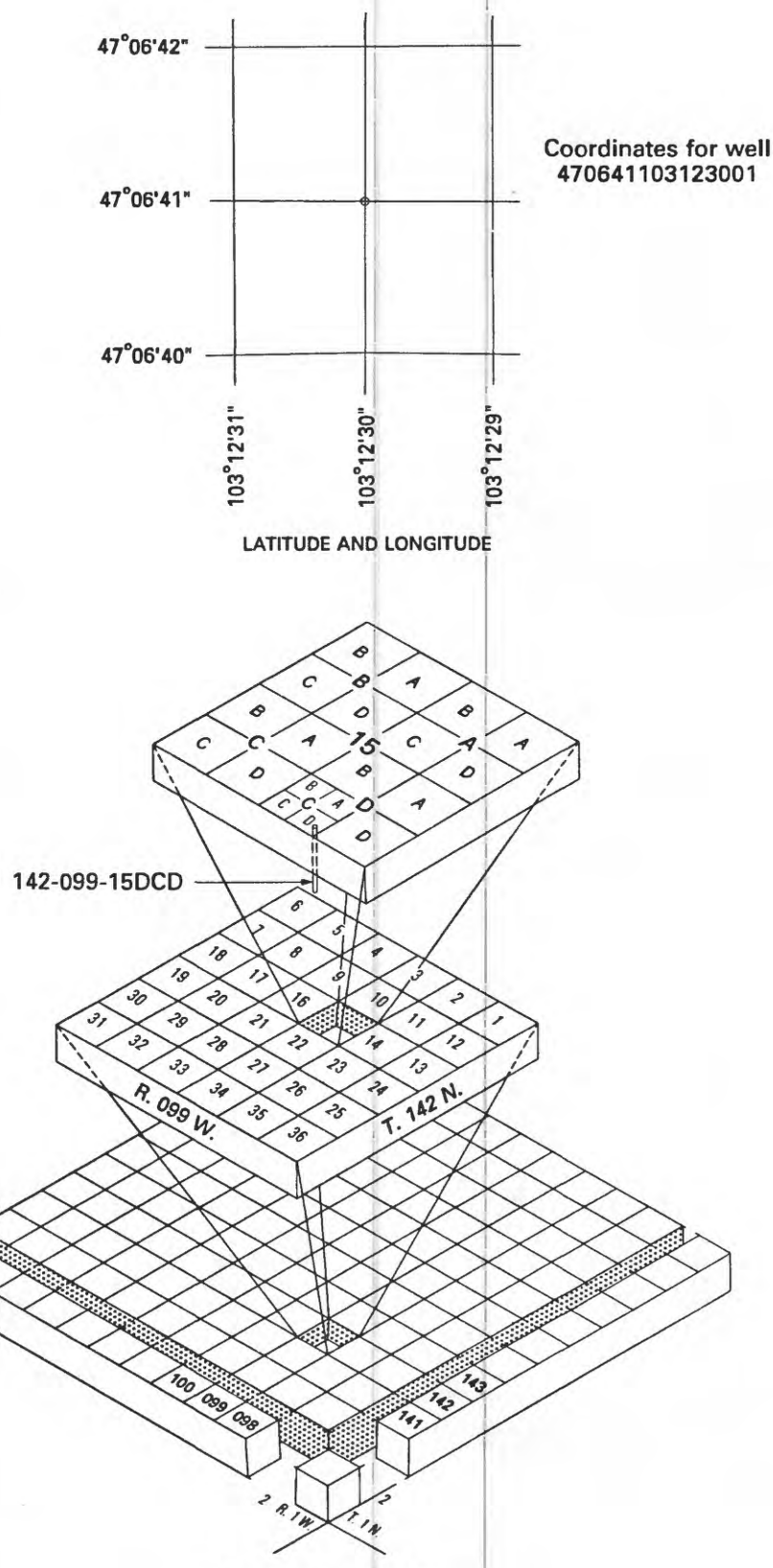

Figure 2.--Location-numbering systems.

DATA COLLECTION AND ANALYSIS

Geochemical and hydrologic data were collected in and around six abandoned uraniferous lignite mines in western North Dakota (fig. 1) during December 1983 through June 1988. These mines are the Klym (fig. 3), Smith (fig. 4), and Talkington (fig. 5) mines in Billings County; the Fritz (fig. 6) mine in Slope County; and the Frank and Palaniuk (fig. 7) mines in Stark County. Part of the Palaniuk Mine was reclaimed in the spring of 1986; thus, both prereclamation and postreclamation geochemical and hydrologic data are presented for that mine site. Only prereclamation data are presented for the other mine sites.

Well-construction and field water-quality data for 224 wells, test holes, and springs monitored for this study are given in table 1. Periodic measurements of water levels in 67 wells are given in table 2, and lithologic logs of 81 wells and test holes are given in table 3. Physical properties and major-ion and nutrient concentrations of water samples from 64 wells and 2 springs are given in table 4, trace-element analyses of water samples from 62 wells and 2 springs are given in table 5, and radiochemical analyses of water samples from 124 wells and 2 springs are given in table 6. Grain-size analyses of rock samples from 6 wells and test holes are given in table 7. Laboratory analytical methods and detection levels for determination of chemical constituents in water are given in table 8, and township-range location numbers and corresponding latitude-longitude numbers are given in table 9.

Sample Collection and Processing Methods

Before sample collection, three well-casing volumes of water were removed from the well with a 1-L Teflon bailer. The bailer then was used to collect a composite sample in a 12-L Teflon churn splitter, and aliquots were drawn from the churn splitter for chemical analyses. Samples were collected from private wells after three well-casing volumes of water were flushed from the plumbing.

Water samples were processed at the well site by U.S. Geological Survey personnel. Specific conductance and pH were measured with Extech conductance and pH meters. Also, a 250-mL aliquot was drawn from the churn splitter into a rinsed polyethylene bottle for laboratory determination of pH, specific conductance, carbonate, and bicarbonate.

The remaining churn-splitter sample was filtered through a 0.45-µm pore size Millipore filter and separated into different aliquots for chemical analyses. A 250-mL aliquot was drawn into an acid-rinsed polyethylene bottle, acidified to a pH of less than 2 with 2 mL of nitric acid, and analyzed for major cations (calcium, magnesium, sodium, and potassium). A second 250-mL aliquot was drawn into a sample-rinsed polyethylene bottle and analyzed for major anions (chloride, sulfate, and fluoride). A third 250-mL aliquot was drawn into a sample-rinsed brown polyethylene bottle, preserved with mercuric chloride, and analyzed for nutrients (nitrogen and phosphorus species). A 500-mL aliquot was drawn into an acid-rinsed polyethylene bottle and analyzed for trace metals (arsenic, barium, beryllium, cadmium, chromium, cobalt,

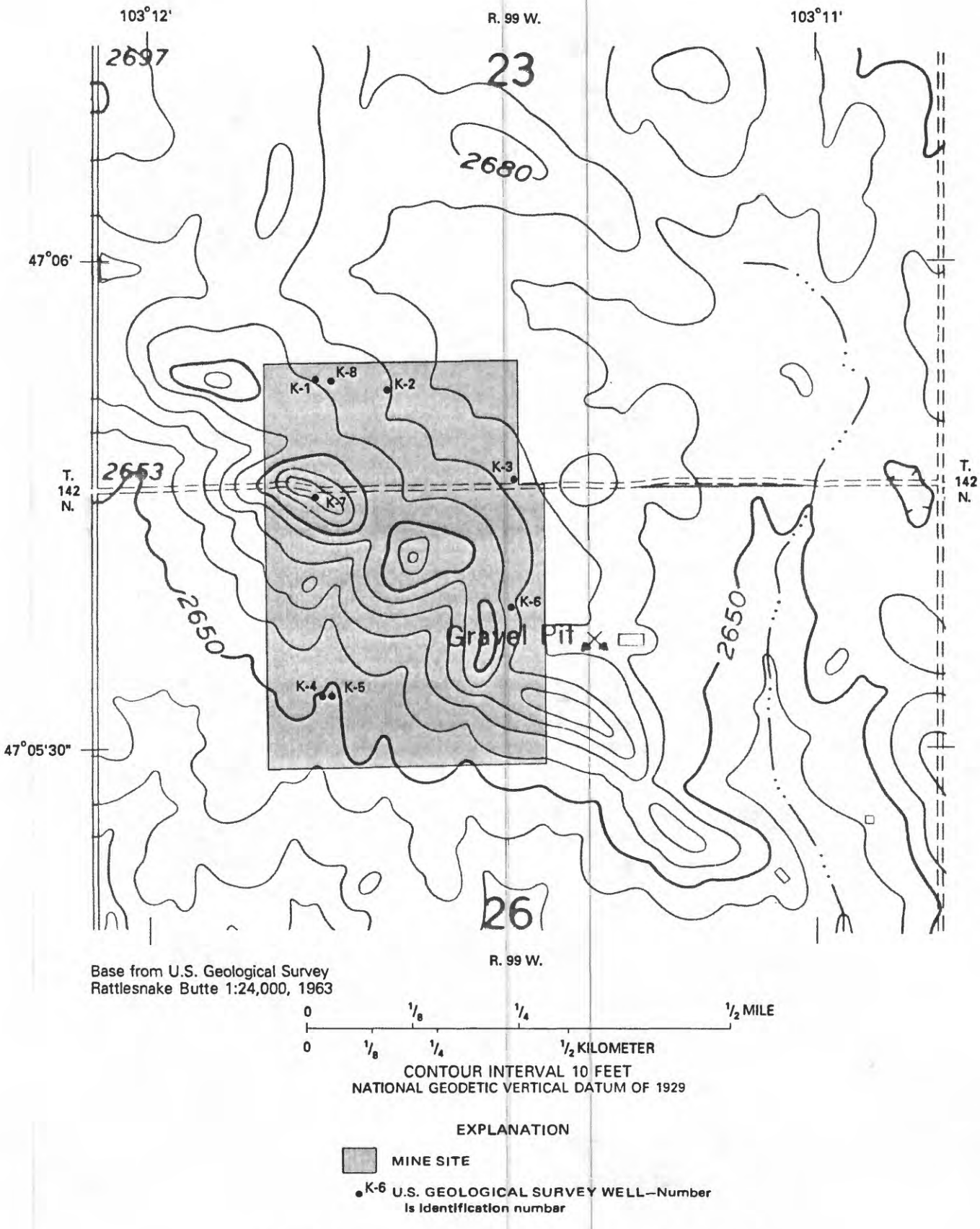

Figure 3.--Location of wells and test holes for the Klym mine site.

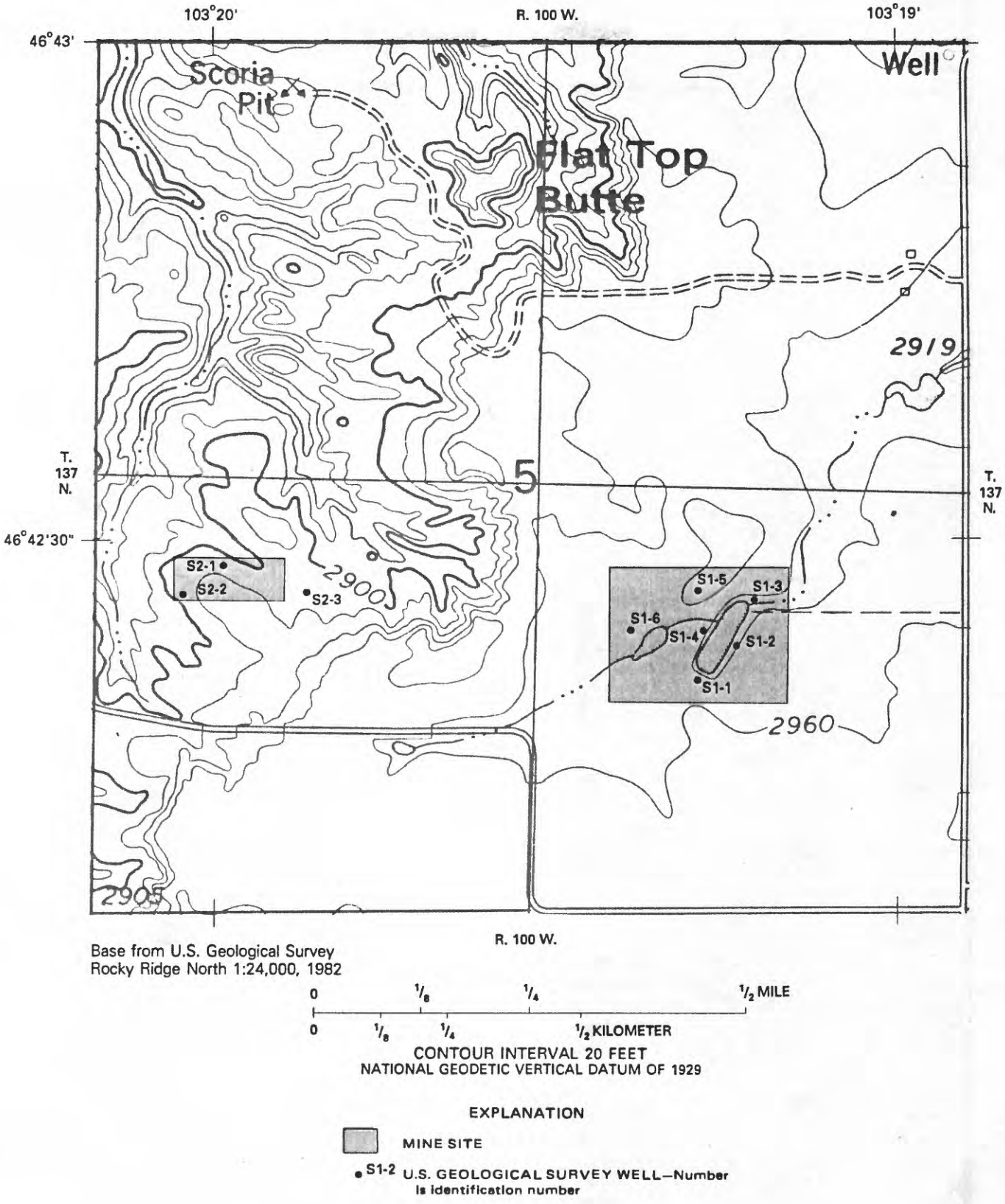

Figure 4.--Location of wells for the Smith 1 and Smith 2 mine sites.

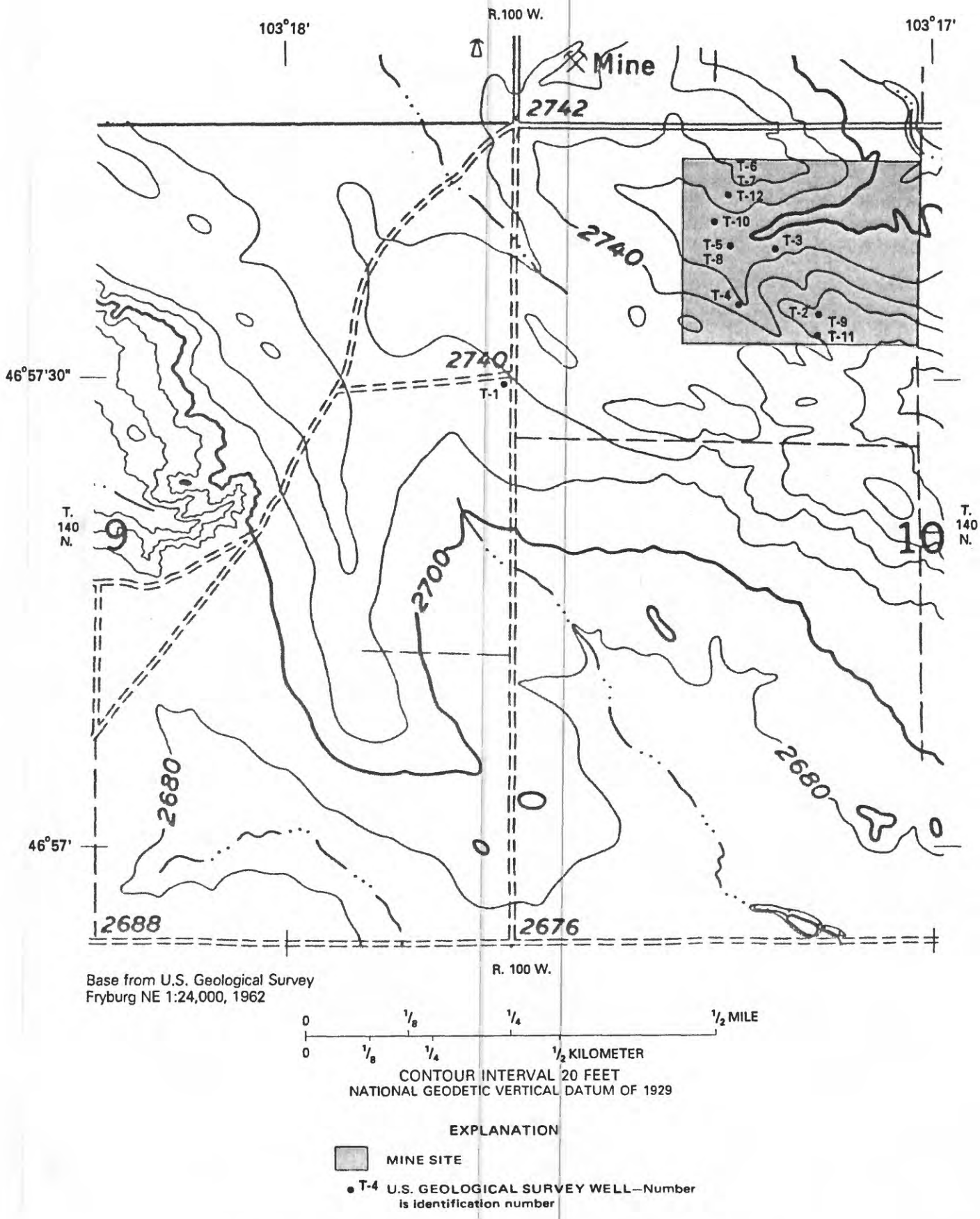

Figure 5.--Location of wells and test holes for the Talkington mine site.

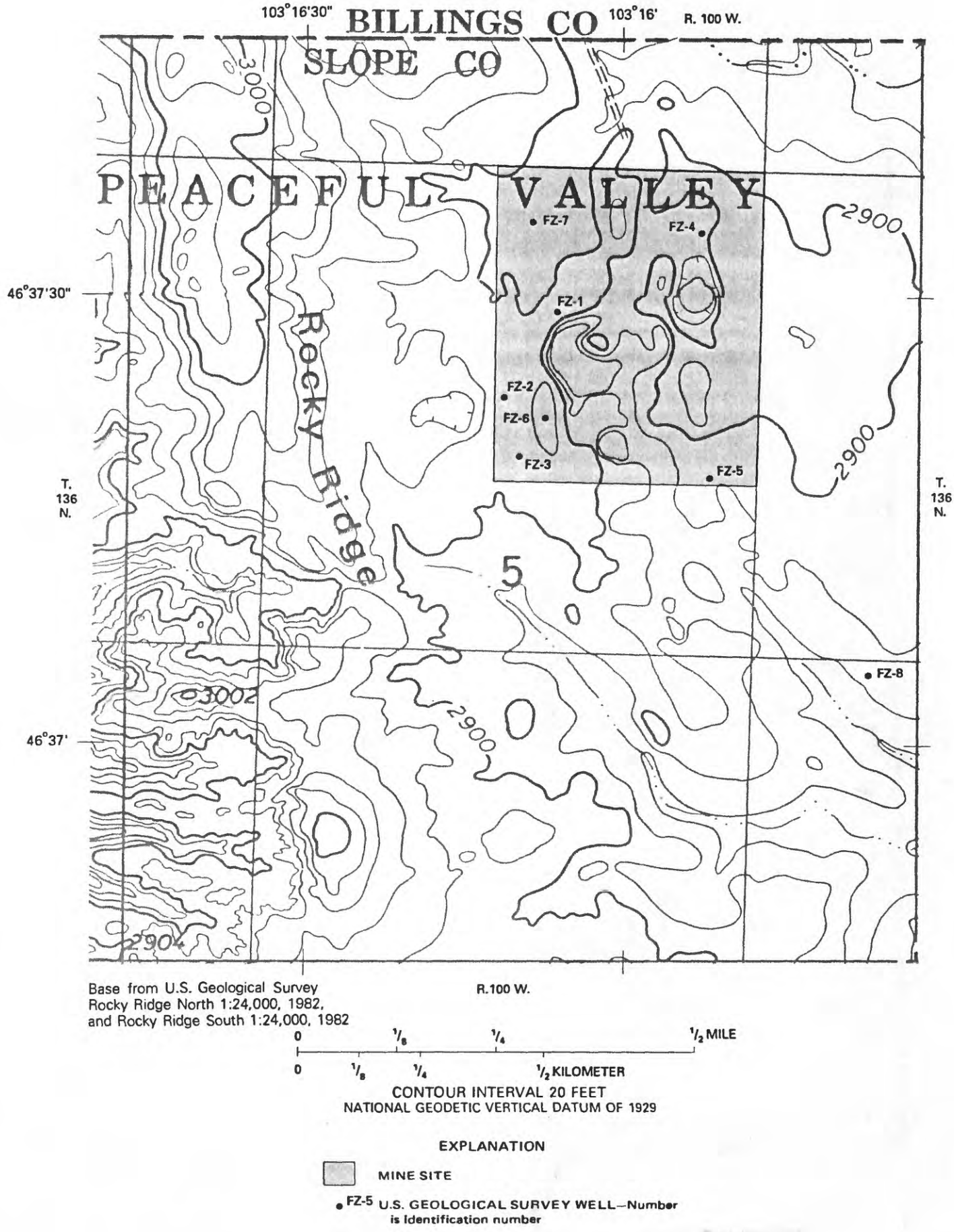

Figure 6.--Location of wells and test holes for the Fritz mine site.

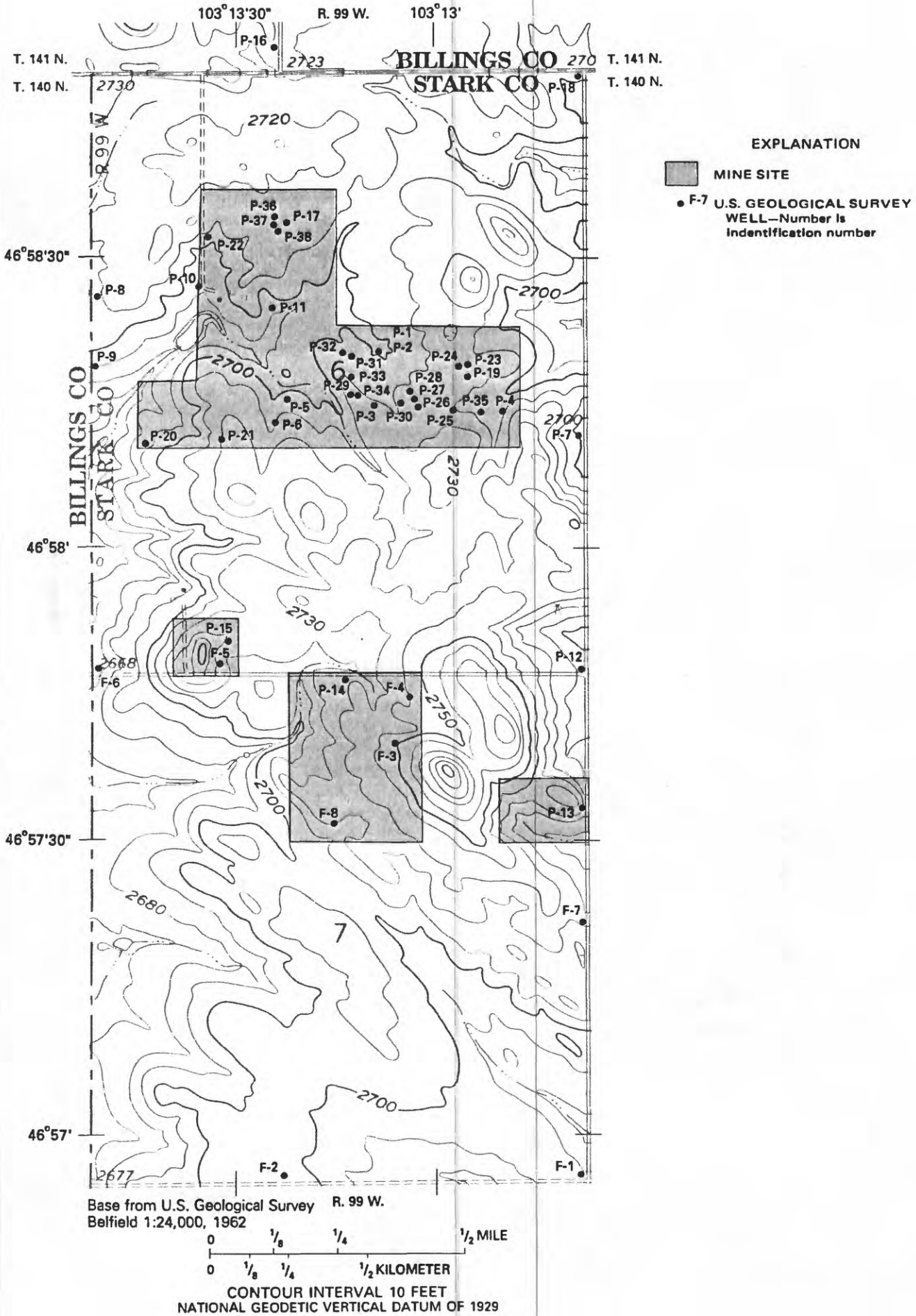

Figure 7.--Location of wells and test holes for the Frank and Palaniuk mine sites.

copper, iron, lead, lithium, manganese, molybdenum, selenium, strontium, vanadium, and zinc). A 200-mL aliquot was drawn into an acid-rinsed glass bottle, preserved with a mixture of nitric acid and potassium dichromate, and analyzed for mercury. After processing, all samples were shipped to the laboratory in coolers filled with ice.

A 2-L sample was collected in a sample-rinsed polyethelene bottle and analyzed for radiochemical constituents (dissolved gross alpha, suspended gross alpha, dissolved gross beta, suspended gross beta, dissolved radium-226, total radium-226, and dissolved natural uranium).

Analytical Methods

Water samples were analyzed at the U.S. Geological Survey National Water-Quality Laboratory in Arvada, Colo. Samples were received at the laboratory within 4 days of collection. Analyses of nutrient samples were completed within 10 days of collection. The remaining analyses were completed within 100 days of collection. Inorganic constituents were analyzed using methods described by Fishman and Friedman (1989), and radiochemical constituents were analyzed using methods described by Thatcher and others (1977).

Grain-size determinations of rock samples were made by the U.S. Geological Survey, Iowa City, Iowa. Values refer to the Wentworth (1922) size scale. Color descriptions were determined by comparing fresh samples with a standardized rock-color chart (Geological Society of America, 1963).

SUMMARY

Geochemical and hydrologic data were collected in and around six abandoned uraniferous lignite mines in western North Dakota. The data include well-construction and field water-quality data for wells, test holes, and springs. Also included are water levels in selected wells, lithologic logs of selected wells and test holes, physical properties and major-ion and nutrient concentrations of water samples from selected wells and springs, trace-element analyses of water samples from selected wells and springs, radiochemical analyses of water samples from selected wells and springs, and grain-size analyses of rock samples from selected wells and test holes drilled near the reclamation sites. These data are useful for evaluating the effectiveness of reclamation efforts at abandoned uraniferous lignite mines in western North Dakota.

REFERENCES

Feltz, H.R., Duncan, S.S., and Zepp, A., 1985, 1986-87-88 National Water Quality Laboratory services catalog: U.S. Geological Survey Open-File Report 86-232.

Fishman, M.J., and Friedman, L.C., 1989, Methods for determination of inorganic substances in water and fluvial sediments: Techniques of Water-Resources Investigations of the U.S. Geological Survey, book 5, chapter A1, 545 p.

Geological Society of America, 1963, Rock color chart: New York, Geological Society of America.

Thatcher, L.L., Janzer, V.J., and Edwards, K.W., 1977, Methods for determination of radioactive substances in water and fluvial sediment: Techniques of Water-Resources Investigations of the U.S. Geological Survey, book 5, chapter A5, 95 p.

Wentworth, C.K., 1922, A scale of grade and class terms for clastic sediments: Journal of Geology, v. 30, p. 377-392.

Table 1.--Well-construction and field water-quality data for wells, test holes, and springs

[USGS FZ-7, U.S. Geological Survey well or test hole, Fritz mine site; --, no data; Specific conductance, value shown is the field specific conductance measured at the time of water-quality sampling unless otherwise noted; µS/cm, microsiemens per centimeter; °C, degrees Celsius; pH, value shown is the field pH measured at the time of water-quality sampling; Temperature, water, value shown is the field temperature measured at the time of water-quality sampling; 125TGRV, Paleocene, Tongue River Member of the Fort Union Formation; USGS S2-2A, U.S. Geological Survey well or test hole, Smith 2 mine site; USGS S1-3A, U.S. Geological Survey well or test hole, Smith 1 mine site; USGS P-18, U.S. Geological Survey well or test hole, Palaniuk mine site; 125SNLB, Paleocene, Sentinel Butte Member of the Fort Union Formation; USGS F-6, U.S. Geological Survey well or test hole, Frank mine site; USGS T-1, U.S. Geological Survey well or test hole, Talkington mine site; USGS K-2, U.S. Geological Survey well or test hole, Klym mine site; WL, additional water levels given in table 2; L, log given in table 3; PC, physical properties and major-ion and nutrient concentrations given in table 4; T, trace-element analysis given in table 5; R, radiochemical analysis given in table 6; G, grain-size analysis given in table 7; LY, lysimeter]

Township-range location number	Owner and name	Depth drilled, total (feet)	Depth of well, total (feet)	Diameter of casing (inches)	Date well constructed	Water level at time of water-quality sampling (feet below land surface)	Date of water-quality sampling
136-100-05ABCC	USGS FZ-7	19	19	2.00	05-25-84	7.90	08-08-84
136-100-05ACAA	USGS FZ-4	50	50	2.00	05-24-84	44.69	08-10-84
136-100-05ACBC	USGS FZ-1	16	16	2.00	05-25-84	10.17	07-31-84
136-100-05ACDB1	USGS FZ-6	140	118	2.00	05-31-84	72.28	10-30-84
136-100-05ACDB2	USGS FZ-6A	70	70	2.00	06-01-84	61.55	10-30-84
136-100-05ACDB3	USGS FZ-6B	40	40	4.00	06-01-84	--	--
136-100-05ACDB4	USGS FZ-6C	30	30	4.00	06-01-84	--	--
136-100-05ACDB5	USGS FZ-6D	20	20	4.00	06-01-84	--	--
136-100-05ACDB6	USGS FZ-6E	10	10	4.00	06-01-84	--	--
136-100-05ACDB7	USGS FZ-6F	5.0	5.0	4.00	06-01-84	--	--

Table 1.--Well-construction and field water-quality data for wells, test holes, and springs--Continued

Township-range location number	Aquifer code	Specific conductance (µS/cm at 25 °C)	pH (standard units)	Temperature, water (°C)	Altitude of land surface (feet above sea level)	Remarks
136-100-05ABCC	125TGRV	5,290	7.0	12.0	2,892	WL, L, PC, T, R
136-100-05ACAA	125TGRV	7,900	7.1	8.5	2,907	WL, L, PC, T, G
136-100-05ACBC	125TGRV	2,950	5.9	15.0	2,906	WL, L, PC, T, R
136-100-05ACDB1	125TGRV	4,700	8.6	10.0	2,936	WL, L, PC, T, R
136-100-05ACDB2	125TGRV	--	--	--	2,936	WL
136-100-05ACDB3	125TGRV	--	--	--	2,936	R
136-100-05ACDB4	125TGRV	--	--	--	2,936	R
136-100-05ACDB5	125TGRV	--	--	--	2,936	R
136-100-05ACDB6	125TGRV	--	--	--	2,936	R
136-100-05ACDB7	125TGRV	--	--	--	2,936	R

Table 1.--Well-construction and field water-quality data for wells, test holes, and springs--Continued

Township-range location number	Owner and name	Depth drilled, total (feet)	Depth of well, total (feet)	Diameter of casing (inches)	Date well constructed	Water level at time of water-quality sampling (feet below land surface)	Date of water-quality sampling
136-100-05ACDB8	USGS FZ-6G	30	30	--	06-01-84	--	--
136-100-05ACDB9	USGS FZ-6H	20	20	--	06-01-84	--	--
136-100-05ACDB10	USGS FZ-6I	10	10	--	06-01-84	--	--
136-100-05ACDD1	USGS FZ-5A	34	34	2.00	06-01-84	21.66	10-30-84
136-100-05ACDD2	USGS FZ-5B	20	20	4.00	06-01-84	--	--
136-100-05ACDD3	USGS FZ-5C	10	10	4.00	06-01-84	--	--
136-100-05ACDD4	USGS FZ-5D	5.0	5.0	4.00	06-01-84	--	--
136-100-05ACDD5	USGS FZ-5E	20	20	--	06-01-84	--	--
136-100-05ACDD6	USGS FZ-5F	10	10	--	06-01-84	--	--
136-100-05BDAD	USGS FZ-2	45	45	2.00	05-24-84	29.48	08-08-84
136-100-05CAAA	USGS FZ-3	34	34	2.00	05-24-84	27.84	07-31-84
136-100-05DACA	USGS FZ-8	38	--	--	05-25-84	--	--
136-100-17ADD	Howard Peterson	--	40	--	--	--	01-23-85
136-100-20AAD	Sheldon Erickson	--	45	--	--	--	01-22-85
136-100-22BAA	Daisy Hewson	--	58	--	--	--	01-22-85
137-100-04CDD	Dorothy Molm	--	40	--	--	--	01-23-85
137-100-05CBAC1	USGS S2-2A	20	20	--	06-04-84	--	--
137-100-05CBAC2	USGS S2-2B	20	10	--	06-04-84	--	--
137-100-05CBCA1	USGS S2-1A	20	20	4.00	06-04-84	--	--
137-100-05CBCA2	USGS S2-1B	20	20	--	06-04-84	--	--

Table 1.--Well-construction and field water-quality data for wells, test holes, and springs--Continued

Township-range location number	Aquifer code	Specific conductance (µS/cm at 25 °C)	pH (standard units)	Temperature, water (°C)	Altitude of land surface (feet above sea level)	Remarks
136-100-05ACDB8	125TGRV	--	--	--	2,936	LY
136-100-05ACDB9	125TGRV	--	--	--	2,935	LY
136-100-05ACDB10	125TGRV	--	--	--	2,935	LY
136-100-05ACDD1	125TGRV	6,990	6.7	8.5	2,891	WL, L, PC, T
136-100-05ACDD2	125TGRV	--	--	--	2,892	R
136-100-05ACDD3	125TGRV	--	--	--	2,893	R
136-100-05ACDD4	125TGRV	--	--	--	2,894	R
136-100-05ACDD5	125TGRV	--	--	--	2,895	--
136-100-05ACDD6	125TGRV	--	--	--	2,895	--
136-100-05BDAD	125TGRV	3,560	6.0	21.0	2,920	WL, L, PC, T, R
136-100-05CAAA	125TGRV	2,240	8.9	8.5	2,901	WL, L, PC, T, R
136-100-05DACA	125TGRV	--	--	--	2,883	L
136-100-17ADD	--	2,280	7.2	8.0	--	PC, T, R
136-100-20AAD	--	1,680	7.4	6.0	--	PC, T, R
136-100-22BAA	--	2,450	7.5	8.0	--	PC, T, R
137-100-04CDD	--	1,580	8.0	6.0	--	PC, T, R
137-100-05CBAC1	125TGRV	--	--	--	2,902	L
137-100-05CBAC2	125TGRV	--	--	--	2,902	--
137-100-05CBCA1	125TGRV	--	--	--	2,904	L, R
137-100-05CBCA2	125TGRV	--	--	--	2,904	--

Table 1.--Well-construction and field water-quality data for wells, test holes, and springs--Continued

Township-range location number	Owner and name	Depth drilled, total (feet)	Depth of well, total (feet)	Diameter of casing (inches)	Date well constructed	Water level at time of water-quality sampling (feet below land surface)	Date of water-quality sampling
137-100-05CBCA3	USGS S2-1C	10	10	--	06-04-84	--	--
137-100-05CBCA4	USGS S2-1D	10	10	4.00	06-04-84	--	--
137-100-05CBCA5	USGS S2-1E	5.0	5.0	4.00	06-04-84	--	--
137-100-05CBDA	USGS S2-3	20	17	2.00	06-04-84	8.00	08-08-84
137-100-05DACB1	USGS S1-3A	20	20	2.00	05-23-84	3.15	10-29-84
137-100-05DACB2	USGS S1-3B	15	15	4.00	05-23-84	--	--
137-100-05DACB3	USGS S1-3C	10	10	4.00	05-23-84	--	--
137-100-05DACB4	USGS S1-3D	5.0	5.0	4.00	05-23-84	--	--
137-100-05DACB5	USGS S1-3E	10	10	--	05-23-84	--	--
137-100-05DBCA	USGS S1-6	22	8.0	--	05-23-84	--	--
137-100-05DBDA1	USGS S1-4	20	20	2.00	05-23-84	5.27	08-07-84
137-100-05DBDA2	USGS S1-5A	46	43	2.00	05-24-84	24.89	08-10-84
137-100-05DBDA3	USGS S1-5B	20	20	4.00	05-24-84	--	--
137-100-05DBDA4	USGS S1-5C	10	10	4.00	05-24-84	--	--
137-100-05DBDA5	USGS S1-5D	5.0	5.0	4.00	05-24-84	--	--
137-100-05DBDA6	USGS S1-5E	20	20	--	05-24-84	--	--
137-100-05DBDA7	USGS S1-5F	10	10	--	05-24-84	--	--
137-100-05DBDD1	USGS S1-1	38	36	2.00	05-23-84	18.50	08-01-84
137-100-05DBDD2	USGS S1-2	21	21	2.00	05-23-84	6.01	08-01-84
137-100-08ABB	Dale Smith	--	1,790	--	--	--	01-23-85

Table 1.--Well-construction and field water-quality data for wells, test holes, and springs--Continued

Township-range location number	Aquifer code	Specific conductance (µS/cm at 25 °C)	pH (standard units)	Temperature, water (°C)	Altitude of land surface (feet above sea level)	Remarks
137-100-05CBCA3	125TGRV	--	--	--	2,904	LY
137-100-05CBCA4	125TGRV	--	--	--	2,904	R
137-100-05CBCA5	125TGRV	--	--	--	2,904	R
137-100-05CBDA	125TGRV	742	7.2	16.5	2,898	WL, L, PC, T, R, G
137-100-05DACB1	125TGRV	1,440	6.4	12.0	2,938	WL, L, PC, T, R
137-100-05DACB2	125TGRV	--	--	--	2,938	R
137-100-05DACB3	125TGRV	--	--	--	2,938	R
137-100-05DACB4	125TGRV	--	--	--	2,939	R
137-100-05DACB5	125TGRV	4,060	9.3	20.0	2,939	LY, PC
137-100-05DBCA	125TGRV	--	--	--	2,945	LY, L
137-100-05DBDA1	125TGRV	3,590	8.1	18.0	2,943	WL, L, PC, T, R
137-100-05DBDA2	125TGRV	7,200	7.9	18.0	2,960	WL, L, PC, T, R
137-100-05DBDA3	125TGRV	--	--	--	2,960	R
137-100-05DBDA4	125TGRV	--	--	--	2,960	R
137-100-05DBDA5	125TGRV	--	--	--	2,960	R
137-100-05DBDA6	125TGRV	--	--	--	2,960	LY
137-100-05DBDA7	125TGRV	--	--	--	2,960	LY
137-100-05DBDD1	125TGRV	4,000	8.7	14.0	2,951	WL, L, PC, T, R, G
137-100-05DBDD2	125TGRV	1,300	6.2	12.5	2,942	WL, L, PC, T, R
137-100-08ABB	--	1,770	8.6	11.0	--	PC, T

Table 1.--Well-construction and field water-quality data for wells, test holes, and springs--Continued

Township-range location number	Owner and name	Depth drilled, total (feet)	Depth of well, total (feet)	Diameter of casing (inches)	Date well constructed	Water level at time of water-quality sampling (feet below land surface)	Date of water-quality sampling
137-100-08DAA	Dale Smith	--	107	--	--	--	01-18-84
137-100-26CCA	Rocky Fritz	--	Spring	--	--	--	01-23-85
137-100-28DDA	Les Fritz	--	Spring	--	--	--	01-23-85
138-100-23DDD	Robert Hewson	--	25	--	--	--	01-17-84
138-100-28ADA	James Fritz	--	316	--	--	--	01-22-85
140-099-04CBB	Gabrial Frank	--	30	--	--	--	01-19-84
140-099-06AAAA	USGS P-18	30	18	2.00	12-15-83	14.05	04-24-84
140-099-06ACCD1	USGS P-1	240	--	--	12-09-83	--	--
140-099-06ACCD2	USGS P-1A	240	237	2.00	12-12-83	169.96	05-16-85
140-099-06ACCD3	USGS P-2	30	29	2.00	12-13-83	12.09	05-16-84
140-099-06ACCD4	USGS P-31	27	27	2.00	06-06-86	11.98	10-30-86
140-099-06ACCD5	USGS P-31A	10	10	--	06-06-86	--	--
140-099-06ACCD6	USGS P-31B	15	15	--	06-06-86	--	--
140-099-06ACCD7	USGS P-31C	20	20	--	06-06-86	--	--
140-099-06ACCD8	USGS P-31D	5.0	5.0	4.00	06-06-86	--	--
140-099-06ACCD9	USGS P-31E	10	10	4.00	06-06-86	--	--
140-099-06ACCD10	USGS P-31F	15	15	4.00	06-06-86	--	--
140-099-06ACCD11	USGS P-31G	20	20	4.00	06-06-86	--	--
140-099-06ACCD12	USGS P-32	31	31	2.00	06-05-86	13.94	10-28-86
140-099-06ACCD13	USGS P-33	36	36	2.00	06-05-86	17.55	10-28-86

Table 1.--Well-construction and field water-quality data for wells, test holes, and springs--Continued

Township-range location number	Aquifer code	Specific conductance (µS/cm at 25 °C)	pH (standard units)	Temperature, water (°C)	Altitude of land surface (feet above sea level)	Remarks
137-100-08DAA	--	699	8.3	6.5	--	R
137-100-26CCA	--	1,010	7.4	4.0	--	PC, T, R
137-100-28DDA	--	2,150	6.9	4.0	--	PC, T, R
138-100-23DDD	--	1,110	7.3	8.0	--	R
138-100-28ADA	--	1,600	8.8	11.0	--	PC, T, R
140-099-04CBB	--	705	6.3	6.0	--	R
140-099-06AAAA	125SNLB	2,100	7.0	8.5	2,703	WL, L, PC, T, R
140-099-06ACCD1	125SNLB	--	--	--	2,700	L, G
140-099-06ACCD2	125SNLB	3,050	8.7	9.0	2,700	WL, PC, T, R
140-099-06ACCD3	125SNLB	480	9.2	9.5	2,700	WL, L, PC, T, R
140-099-06ACCD4	125SNLB	1,410	7.2	10.0	2,704	WL, L, PC, T, R
140-099-06ACCD5	--	--	--	--	2,704	LY
140-099-06ACCD6	--	--	--	--	2,704	LY
140-099-06ACCD7	--	--	--	--	2,704	LY
140-099-06ACCD8	--	--	--	--	2,704	--
140-099-06ACCD9	--	--	--	--	2,704	--
140-099-06ACCD10	--	--	--	--	2,704	--
140-099-06ACCD11	--	--	--	--	2,704	--
140-099-06ACCD12	125SNLB	432	7.1	9.5	2,706	WL, L, PC, T, R
140-099-06ACCD13	125SNLB	500	7.5	10.0	2,710	WL, L, PC, T, R

Table 1.--Well-construction and field water-quality data for wells, test holes, and springs--Continued

Township-range location number	Owner and name	Depth drilled, total (feet)	Depth of well, total (feet)	Diameter of casing (inches)	Date well constructed	Water level at time of water-quality sampling (feet below land surface)	Date of water-quality sampling
140-099-06ACDD	USGS P-24	32	32	2.00	06-06-86	18.01	10-29-86
140-099-06ADCC	USGS P-23	29	29	2.00	06-06-86	20.67	10-29-86
140-099-06BACD	USGS P-36	38	38	2.00	06-06-86	20.70	10-27-86
140-099-06BCAD	USGS P-10	20	20	2.00	12-14-83	4.15	05-16-84
140-099-06BCBC	USGS P-8	18	17	2.00	12-14-83	12.25	05-16-84
140-099-06BCCC	USGS P-9	18	--	--	12-14-83	--	--
140-099-06BDAB	USGS P-17	40	38	2.00	12-15-83	19.07	05-16-84
140-099-06BDBA1	USGS P-37	35	33	2.00	06-06-86	16.34	10-29-86
140-099-06BDBA2	USGS P-38	34	31	2.00	06-06-86	13.95	10-29-86
140-099-06BDBB1	USGS P-22A	28	28	2.00	05-17-84	9.17	06-05-84
140-099-06BDBB2	USGS P-22B	25	25	4.00	05-17-84	--	--
140-099-06BDBB3	USGS P-22C	15	15	4.00	05-17-84	--	--
140-099-06BDBB4	USGS P-22D	5.0	5.0	4.00	05-17-84	--	--
140-099-06BDCA1	USGS P-11	24	24	2.00	12-14-83	5.70	05-16-84
140-099-06BDCA2	USGS P-11A	8.0	8.0	--	12-14-83	--	--
140-099-06BDCA3	USGS P-11B	8.0	8.0	4.00	12-14-83	--	--
140-099-06BDCA4	USGS P-11C	5.0	5.0	4.00	12-14-83	--	--
140-099-06BDCA5	USGS P-11D	15	--	--	12-14-83	--	--
140-099-06BDCA6	USGS P-11E	12	--	--	12-14-83	--	--
140-099-06CAAB	USGS P-5	30	30	2.00	12-13-83	14.34	05-16-84

Table 1.--Well-construction and field water-quality data for wells, test holes, and springs--Continued

Township-range location number	Aquifer code	Specific conductance (µS/cm at 25 °C)	pH (standard units)	Temperature, water (°C)	Altitude of land surface (feet above sea level)	Remarks
140-099-06ACDD	125SNLB	418	7.2	9.5	2,710	WL, L, PC, T, R
140-099-06ADCC	125SNLB	895	6.1	9.5	2,711	WL, L, PC, T, R
140-099-06BACD	125SNLB	950	7.0	9.5	2,719	WL, L, R
140-099-06BCAD	125SNLB	1,850	7.1	8.0	2,696	WL, L, PC, T, R
140-099-06BCBC	125SNLB	--	--	--	2,704	WL, L
140-099-06BCCC	125SNLB	--	--	--	2,705	LY, L
140-099-06BDAB	125SNLB	640	8.8	9.0	2,708	WL, L, PC, T, R
140-099-06BDBA1	125SNLB	[1]8,490	7.2	10.0	2,715	WL, L, R
140-099-06BDBA2	125SNLB	[1]8,700	7.4	10.5	2,711	WL, L, R
140-099-06BDBB1	125SNLB	[1]69,800	7.0	7.5	2,712	WL, L, PC, T, R
140-099-06BDBB2	125SNLB	--	--	--	2,712	--
140-099-06BDBB3	125SNLB	--	--	--	2,712	--
140-099-06BDBB4	125SNLB	--	--	--	2,712	--
140-099-06BDCA1	125SNLB	560	6.7	8.0	2,694	WL, L, PC, T, R
140-099-06BDCA2	125SNLB	--	--	--	2,694	LY
140-099-06BDCA3	125SNLB	--	--	--	2,695	--
140-099-06BDCA4	125SNLB	--	--	--	2,696	--
140-099-06BDCA5	125SNLB	--	--	--	2,696	LY
140-099-06BDCA6	125SNLB	--	--	--	2,696	LY
140-099-06CAAB	125SNLB	510	9.8	9.0	2,705	WL, L, PC, T, R

[1]Value shown is laboratory specific conductance.

Table 1.--Well-construction and field water-quality data for wells, test holes, and springs--Continued

Township-range location number	Owner and name	Depth drilled, total (feet)	Depth of well, total (feet)	Diameter of casing (inches)	Date well constructed	Water level at time of water-quality sampling (feet below land surface)	Date of water-quality sampling
140-099-06CABC1	USGS P-21A	12	12	2.00	05-17-84	4.17	06-05-84
140-099-06CABC2	USGS P-21B	10	10	4.00	05-17-84	--	--
140-099-06CABC3	USGS P-21C	5.0	5.0	4.00	05-17-84	--	--
140-099-06CABD	USGS P-6	32	32	2.00	12-13-83	20.76	05-16-84
140-099-06CBBD1	USGS P-20A	58	58	2.00	05-18-84	36.83	06-05-84
140-099-06CBBD2	USGS P-20B	35	35	4.00	05-18-84	--	--
140-099-06CBBD3	USGS P-20C	20	20	4.00	05-18-84	--	--
140-099-06CBBD4	USGS P-20D	10	10	4.00	05-18-84	--	--
140-099-06CBBD5	USGS P-20E	30	30	--	05-18-84	--	--
140-099-06CBBD6	USGS P-20F	20	20	--	05-18-84	--	--
140-099-06CBBD7	USGS P-20G	10	10	--	05-18-84	--	--
140-099-06CCCC	USGS F-6	15	15	2.00	05-16-84	12.08	08-15-84
140-099-06CCD1	USGS F-5A	35	15	--	05-17-84	--	--
140-099-06CCD2	USGS F-5B	20	20	4.00	05-17-84	--	--
140-099-06CCD3	USGS F-5C	10	10	4.00	05-17-84	--	--
140-099-06CCD4	USGS F-5D	5.0	5.0	4.00	05-17-84	--	--
140-099-06CCD5	USGS F-5E	20	20	--	05-17-84	--	--
140-099-06CCD6	USGS F-5E1	20	10	--	05-17-84	--	--
140-099-06CDCB1	USGS P-15A	27	20	--	12-15-83	--	--
140-099-06CDCB2	USGS P-15A1	27	10	--	12-15-83	--	--

Table 1.--Well-construction and field water-quality data for wells, test holes, and springs--Continued

Township-range location number	Aquifer code	Specific conductance (µS/cm at 25 °C)	pH (standard units)	Temperature, water (°C)	Altitude of land surface (feet above sea level)	Remarks
140-099-06CABC1	125SNLB	4,900	4.8	16.0	2,693	WL, L, PC, T, R
140-099-06CABC2	125SNLB	--	--	--	2,693	--
140-099-06CABC3	125SNLB	--	--	--	2,693	--
140-099-06CABD	125SNLB	1,800	6.2	9.5	2,712	WL, L, PC, T, R
140-099-06CBBD1	125SNLB	[1]9,350	6.6	10.0	2,720	WL, PC, T, R
140-099-06CBBD2	125SNLB	--	--	--	2,721	L
140-099-06CBBD3	125SNLB	--	--	--	2,721	--
140-099-06CBBD4	125SNLB	--	--	--	2,721	--
140-099-06CBBD5	125SNLB	--	--	--	2,721	LY
140-099-06CBBD6	125SNLB	--	--	--	2,720	LY
140-099-06CBBD7	125SNLB	--	--	--	2,720	LY
140-099-06CCCC	125SNLB	[1]26,200	7.2	9.0	2,670	WL, L, PC, T, R
140-099-06CCD1	125SNLB	--	--	--	2,721	L
140-099-06CCD2	125SNLB	--	--	--	2,722	--
140-099-06CCD3	125SNLB	--	--	--	2,723	--
140-099-06CCD4	125SNLB	--	--	--	2,724	LY, R
140-099-06CCD5	125SNLB	--	--	--	2,725	LY, R
140-099-06CCD6	125SNLB	--	--	--	2,725	LY, R
140-099-06CDCB1	125SNLB	--	--	--	2,720	LY, L
140-099-06CDCB2	125SNLB	--	--	--	2,720	LY

[1]Value shown is laboratory specific conductance.

Table 1.--Well-construction and field water-quality data for wells, test holes, and springs--Continued

Township-range location number	Owner and name	Depth drilled, total (feet)	Depth of well, total (feet)	Diameter of casing (inches)	Date well constructed	Water level at time of water-quality sampling (feet below land surface)	Date of water-quality sampling
140-099-06DAAD	USGS P-7	30	30	2.00	12-13-83	14.57	04-24-84
140-099-06DABB1	USGS P-19	65	61	2.00	05-22-84	48.57	06-05-84
140-099-06DABB2	USGS P-19A	62	--	--	05-22-84	--	--
140-099-06DABB3	USGS P-19B	35	35	4.00	05-22-84	--	--
140-099-06DABB4	USGS P-19C	20	20	4.00	05-22-84	--	--
140-099-06DABB5	USGS P-19D	10	10	4.00	05-22-84	--	--
140-099-06DABB6	USGS P-19E	30	30	--	05-22-84	--	--
140-099-06DABB7	USGS P-19F	20	20	--	05-22-84	--	--
140-099-06DABB8	USGS P-19G	10	10	--	05-22-84	--	--
140-099-06DABB9	USGS P-19H	34	34	2.00	06-05-86	22.87	10-30-86
140-099-06DABB10	USGS P-19I	20	20	--	06-05-86	--	--
140-099-06DABB11	USGS P-19J	15	15	--	06-05-86	--	--
140-099-06DABB12	USGS P-19K	10	10	--	06-05-86	--	--
140-099-06DABB13	USGS P-19L	20	20	4.00	06-05-86	--	--
140-099-06DABB14	USGS P-19M	15	15	4.00	06-05-86	--	--
140-099-06DABB15	USGS P-19N	10	10	4.00	06-05-86	--	--
140-099-06DABB16	USGS P-19O	5.0	5.0	4.00	06-05-86	--	--
140-099-06DABC	USGS P-35	27	27	2.00	06-06-86	19.58	10-28-86
140-099-06DABD	USGS P-4	25	18	2.00	12-13-83	13.19	06-05-84
140-099-06DBAB1	USGS P-26	32	32	2.00	06-06-86	16.85	10-28-86

Table 1.--Well-construction and field water-quality data for wells, test holes, and springs--Continued

Township-range location number	Aquifer code	Specific conductance (µS/cm at 25 °C)	pH (standard units)	Temperature, water (°C)	Altitude of land surface (feet above sea level)	Remarks
140-099-06DAAD	125SNLB	1,900	7.3	8.5	2,700	WL, L, PC, T, R
140-099-06DABB1	125SNLB	650	6.1	9.5	2,742	WL, L, PC, T, R
140-099-06DABB2	125SNLB	--	--	--	2,742	--
140-099-06DABB3	125SNLB	--	--	--	2,741	R
140-099-06DABB4	125SNLB	--	--	--	2,741	R
140-099-06DABB5	125SNLB	--	--	--	2,741	R
140-099-06DABB6	125SNLB	--	--	--	2,741	LY
140-099-06DABB7	125SNLB	--	--	--	2,741	LY
140-099-06DABB8	125SNLB	--	--	--	2,741	LY
140-099-06DABB9	125SNLB	579	6.2	10.5	2,715	WL, L, PC, T, R
140-099-06DABB10	125SNLB	--	--	--	2,715	LY
140-099-06DABB11	125SNLB	--	--	--	2,715	LY
140-099-06DABB12	125SNLB	--	--	--	2,715	LY
140-099-06DABB13	125SNLB	--	--	--	2,715	--
140-099-06DABB14	125SNLB	--	--	--	2,715	--
140-099-06DABB15	125SNLB	--	--	--	2,715	--
140-099-06DABB16	125SNLB	--	--	--	2,715	--
140-099-06DABC	125SNLB	920	6.5	11.5	2,711	WL, L, PC, T, R
140-099-06DABD	125SNLB	[1]11,600	12.2	12.0	2,708	WL, L, PC, T, R
140-099-06DBAB1	125SNLB	640	7.3	9.0	2,709	WL, L, PC, T, R

[1]Value shown is laboratory specific conductance.

Table 1.--Well-construction and field water-quality data for wells, test holes, and springs--Continued

Township-range location number	Owner and name	Depth drilled, total (feet)	Depth of well, total (feet)	Diameter of casing (inches)	Date well constructed	Water level at time of water-quality sampling (feet below land surface)	Date of water-quality sampling
140-099-06DBAB2	USGS P-30	38	31	2.00	06-06-86	15.78	10-29-86
140-099-06DBAB3	USGS P-28	31	31	2.00	06-05-86	13.77	10-30-86
140-099-06DBAB4	USGS P-28A	10	10	--	06-05-86	--	--
140-099-06DBAB5	USGS P-28B	20	20	--	06-05-86	--	--
140-099-06DBAB6	USGS P-28C	10	10	4.00	06-05-86	--	--
140-099-06DBAB7	USGS P-28D	20	20	4.00	06-05-86	--	--
140-099-06DBAB8	USGS P-27	36	29	2.00	06-05-86	16.20	10-30-86
140-099-06DBAB9	USGS P-27A	10	10	--	06-05-86	--	--
140-099-06DBAB10	USGS P-27B	20	18	--	06-05-86	--	--
140-099-06DBAD	USGS P-25	36	36	2.00	06-05-86	20.96	10-28-86
140-099-06DBBA1	USGS P-29	2.5	2.5	4.00	06-06-86	--	--
140-099-06DBBA2	USGS P-34	36	36	2.00	06-06-86	19.73	10-28-86
140-099-06DBBD	USGS P-3	39	39	2.00	12-13-83	23.43	05-16-84
140-099-06DDDD	USGS P-12	23	23	2.00	12-14-83	17.14	04-24-84
140-099-07ABBB	USGS P-14	60	57	2.00	12-14-83	24.83	08-14-84
140-099-07ABBD	USGS F-4	12	5.0	4.00	05-16-84	--	--
140-099-07ABCA1	USGS F-3A	50	44	2.00	05-16-84	36.12	08-14-84
140-099-07ABCA2	USGS F-3B	30	30	4.00	05-16-84	--	--
140-099-07ABCA3	USGS F-3C	20	20	4.00	05-16-84	--	--
140-099-07ABCA4	USGS F-3D	10	10	4.00	05-16-84	--	--

Table 1.--Well-construction and field water-quality data for wells, test holes, and springs--Continued

Township-range location number	Aquifer code	Specific conductance (µS/cm at 25 °C)	pH (standard units)	Temperature, water (°C)	Altitude of land surface (feet above sea level)	Remarks
140-099-06DBAB2	125SNLB	1,240	7.5	9.5	2,708	WL, L, PC, T, R
140-099-06DBAB3	125SNLB	1,390	7.3	9.5	2,706	WL, L, PC, T, R
140-099-06DBAB4	--	--	--	--	2,706	LY
140-099-06DBAB5	--	--	--	--	2,706	LY
140-099-06DBAB6	--	--	--	--	2,706	--
140-099-06DBAB7	--	--	--	--	2,706	--
140-099-06DBAB8	125SNLB	3,090	6.2	8.0	2,709	WL, L, PC, T, R
140-099-06DBAB9	--	--	--	--	2,709	LY
140-099-06DBAB10	--	--	--	--	2,709	LY
140-099-06DBAD	125SNLB	858	6.6	9.5	2,713	WL, L, PC, T, R
140-099-06DBBA1	--	--	--	--	2,717	--
140-099-06DBBA2	125SNLB	700	7.2	10.0	2,712	WL, L, PC, T, R
140-099-06DBBD	125SNLB	540	8.9	9.0	2,708	WL, L, PC, T, R
140-099-06DDDD	125SNLB	675	8.9	8.5	2,705	WL, L, PC, T, R
140-099-07ABBB	125SNLB	1,160	11.4	9.0	2,725	WL, L, PC, T, R
140-099-07ABBD	125SNLB	--	--	--	2,713	L, R
140-099-07ABCA1	125SNLB	--	--	--	2,739	WL, L
140-099-07ABCA2	125SNLB	--	--	--	2,740	R
140-099-07ABCA3	125SNLB	--	--	--	2,740	R
140-099-07ABCA4	125SNLB	--	--	--	2,740	R

Table 1.--Well-construction and field water-quality data for wells, test holes, and springs--Continued

Township-range location number	Owner and name	Depth drilled, total (feet)	Depth of well, total (feet)	Diameter of casing (inches)	Date well constructed	Water level at time of water-quality sampling (feet below land surface)	Date of water-quality sampling
140-099-07ABCA5	USGS F-3E1	30	30	--	05-16-84	--	--
140-099-07ABCA6	USGS F-3E2	30	20	--	05-16-84	--	--
140-099-07ABCA7	USGS F-3E3	30	10	--	05-16-84	--	--
140-099-07ADAA	USGS P-13	20	16	--	12-14-83	--	--
140-099-07ADDD	USGS F-7	50	50	2.00	05-22-84	26.64	08-15-84
140-099-07BDAA	USGS F-8	25	23	2.00	05-16-84	15.18	08-15-84
140-099-07CDCD	USGS F-2	35	35	2.00	05-16-84	31.84	10-29-84
140-099-07DDDD1	USGS F-1	45	45	2.00	05-16-84	33.03	08-14-84
140-099-07DDDD2	USGS F-1A	20	20	2.00	05-16-84	14.28	08-09-84
140-099-08DAA	Joseph Obrigewitch	--	40	--	--	--	01-19-84
140-100-01ABB	John Smith	--	40	--	--	--	01-19-84
140-100-09ADA	USGS T-1	165	--	--	12-15-83	--	--
140-100-10BABC1	USGS T-6A	35	35	4.00	04-17-84	--	--
140-100-10BABC2	USGS T-6B	25	25	4.00	04-17-84	--	--
140-100-10BABC3	USGS T-6C1	10	10	4.00	04-17-84	--	--
140-100-10BABC4	USGS T-7A	37	37	2.00	04-17-84	25.50	04-25-84
140-100-10BABC5	USGS T-7B	20	20	--	04-18-84	--	--
140-100-10BABC6	USGS T-7C	10	10	--	04-18-84	--	--
140-100-10BABC7	USGS T-12	40	--	--	06-07-84	--	--
140-100-10BACA	USGS T-3	37	37	2.00	04-17-84	10.67	04-17-84

Table 1.--Well-construction and field water-quality data for wells, test holes, and springs--Continued

Township-range location number	Aquifer code	Specific conductance (µS/cm at 25 °C)	pH (standard units)	Temperature, water (°C)	Altitude of land surface (feet above sea level)	Remarks
140-099-07ABCA5	125SNLB	--	--	--	2,740	LY
140-099-07ABCA6	125SNLB	--	--	--	2,740	LY
140-099-07ABCA7	125SNLB	--	--	--	2,740	LY
140-099-07ADAA	125SNLB	--	--	--	2,720	LY, L
140-099-07ADDD	125SNLB	795	7.5	10.0	2,720	WL, L, PC, T, R
140-099-07BDAA	125SNLB	[1]8,160	6.1	8.0	2,705	WL, L, PC, T, R
140-099-07CDCD	125SNLB	--	--	--	2,703	WL, L, PC
140-099-07DDDD1	125SNLB	--	--	--	2,694	WL, L, G
140-099-07DDDD2	125SNLB	14,500	6.8	10.0	2,694	WL, PC, T, R
140-099-08DAA	--	1,590	6.6	8.0	--	R
140-100-01ABB	--	1,820	6.2	6.0	--	R
140-100-09ADA	125SNLB	--	--	--	2,738	L, G
140-100-10BABC1	125SNLB	--	--	--	2,759	L, R
140-100-10BABC2	125SNLB	--	--	--	2,759	R
140-100-10BABC3	125SNLB	--	--	--	2,759	R
140-100-10BABC4	125SNLB	4,900	6.6	9.0	2,758	WL, PC, T, R
140-100-10BABC5	125SNLB	--	--	--	2,758	LY
140-100-10BABC6	125SNLB	--	--	--	2,758	LY
140-100-10BABC7	125SNLB	--	--	--	2,759	L
140-100-10BACA	125SNLB	5,900	6.8	8.5	2,732	WL, L, PC, T, R

[1]Value shown is laboratory specific conductance.

Table 1.--Well-construction and field water-quality data for wells, test holes, and springs--Continued

Township-range location number	Owner and name	Depth drilled, total (feet)	Depth of well, total (feet)	Diameter of casing (inches)	Date well constructed	Water level at time of water-quality sampling (feet below land surface)	Date of water-quality sampling
140-100-10BACB1	USGS T-5A	26	26	--	04-17-84	--	--
140-100-10BACB2	USGS T-5B	10	10	--	04-17-84	--	--
140-100-10BACB3	USGS T-8	25	25	2.00	04-18-84	7.75	10-30-84
140-100-10BACC	USGS T-4	34	33	2.00	04-17-84	17.33	10-30-84
140-100-10BACD	USGS T-2	35	30	2.00	04-17-84	28.69	04-17-84
140-100-10BBAD	USGS T-10	45	44	2.00	04-18-84	13.71	04-25-84
140-100-10BDBA1	USGS T-9A	20	20	4.00	04-18-84	--	--
140-100-10BDBA2	USGS T-9B	10	10	4.00	04-18-84	--	--
140-100-10BDBA3	USGS T-9C	5.0	5.0	4.00	04-18-84	--	--
140-100-10BDBA4	USGS T-9D	20	15	--	04-18-84	--	--
140-100-10BDBA5	USGS T-9E	10	10	--	04-18-84	--	--
140-100-10BDBA6	USGS T-11	25	--	--	06-07-84	--	--
140-100-22AAA	Steve Klem	--	90	--	--	--	01-19-84
140-100-22DAA	Joseph Snyder	--	26	--	--	--	01-19-84
141-099-03BAD	Anthony Kessel	--	50	--	--	--	02-29-84
141-099-27DDA	Mildred Burian	--	50	--	--	--	01-19-84
141-099-33DDDA	USGS P-16	65	65	2.00	12-15-83	23.81	04-24-84
141-099-35BAB	Ida Hecker	--	20	--	--	--	01-19-84
142-098-18BBC	David Armbrust	--	60	--	--	--	02-29-84
142-099-10ABB	Emil Baranko	--	80	--	--	--	03-02-84

Table 1.--Well-construction and field water-quality data for wells, test holes, and springs--Continued

Township-range location number	Aquifer code	Specific conductance (µS/cm at 25 °C)	pH (standard units)	Temperature, water (°C)	Altitude of land surface (feet above sea level)	Remarks
140-100-10BACB1	125SNLB	10,100	12.4	26.0	2,738	LY, L, PC, T
140-100-10BACB2	125SNLB	--	--	--	2,738	LY
140-100-10BACB3	125SNLB	5,600	6.6	9.0	2,738	WL, L, PC, T, R
140-100-10BACC	125SNLB	5,800	7.1	9.0	2,746	WL, L, PC, T, R
140-100-10BACD	125SNLB	2,200	5.9	9.0	2,760	WL, L, PC, T, R
140-100-10BBAD	125SNLB	2,800	7.1	9.0	2,745	WL, L, PC, T, R
140-100-10BDBA1	125SNLB	--	--	--	2,750	L, R
140-100-10BDBA2	125SNLB	--	--	--	2,750	R
140-100-10BDBA3	125SNLB	--	--	--	2,751	R
140-100-10BDBA4	125SNLB	--	--	--	2,751	--
140-100-10BDBA5	125SNLB	--	--	--	2,752	--
140-100-10BDBA6	125SNLB	--	--	--	2,752	L
140-100-22AAA	--	2,260	6.6	7.0	--	R
140-100-22DAA	--	1,790	5.4	4.5	--	R
141-099-03BAD	--	700	9.0	7.0	--	R
141-099-27DDA	--	1,210	6.8	10.0	--	R
141-099-33DDDA	125SNLB	590	9.6	9.0	2,725	WL, L, PC, T, R
141-099-35BAB	--	2,140	6.8	12.0	--	R
142-098-18BBC	--	1,010	7.3	9.0	--	R
142-099-10ABB	--	695	6.8	9.0	--	R

Table 1.--Well-construction and field water-quality data for wells, test holes, and springs--Continued

Township-range location number	Owner and name	Depth drilled, total (feet)	Depth of well, total (feet)	Diameter of casing (inches)	Date well constructed	Water level at time of water-quality sampling (feet below land surface)	Date of water-quality sampling
142-099-12BDD	Joseph Armbrust	--	45	--	--	--	02-29-84
142-099-15DCD	Sam Logosz	--	20	--	--	--	03-02-84
142-099-23CDCA	USGS K-2	20	20	2.00	04-18-84	15.10	06-05-84
142-099-23CDCB1	USGS K-1	85	54	2.00	04-18-84	--	--
142-099-23CDCB2	USGS K-8A	58	58	4.00	04-25-84	--	--
142-099-23CDCB3	USGS K-8B	30	30	4.00	04-25-84	--	--
142-099-23CDCB4	USGS K-8C	20	20	4.00	04-25-84	--	--
142-099-23CDCB5	USGS K-8D	10	10	4.00	04-25-84	--	--
142-099-23CDCB6	USGS K-8E1	30	30	--	04-25-84	--	--
142-099-23CDCB7	USGS K-8E2	20	20	--	04-25-84	--	--
142-099-23CDCB8	USGS K-8E3	10	10	--	04-25-84	--	--
142-099-23CDDD	USGS K-3	38	21	2.00	04-18-84	19.90	06-05-84
142-099-24ABC	William Namyniuk	--	22	--	--	--	02-29-84
142-099-25ADC	Joseph Armbrust	--	22	--	--	--	02-29-84
142-099-26BACC1	USGS K-4	100	46	2.00	04-18-84	42.78	06-05-84
142-099-26BACC2	USGS K-5A	55	54	2.00	04-23-84	43.81	06-05-84
142-099-26BACC3	USGS K-5B	30	30	4.00	04-23-84	--	--
142-099-26BACC4	USGS K-5C	20	20	4.00	04-23-84	--	--
142-099-26BACC5	USGS K-5D	10	10	4.00	04-23-84	--	--
142-099-26BACC6	USGS K-5E	5.0	5.0	4.00	04-23-84	--	--

Table 1.--Well-construction and field water-quality data for wells, test holes, and springs--Continued

Township-range location number	Aquifer code	Specific conductance (µS/cm at 25 °C)	pH (standard units)	Temperature, water (°C)	Altitude of land surface (feet above sea level)	Remarks
142-099-12BDD	--	540	7.7	6.0	--	R
142-099-15DCD	--	1,250	6.2	9.0	--	R
142-099-23CDCA	125SNLB	2,620	5.8	15.0	2,681	WL, L, PC, T, R
142-099-23CDCB1	125SNLB	--	--	--	2,718	L
142-099-23CDCB2	125SNLB	--	--	--	2,718	R
142-099-23CDCB3	125SNLB	--	--	--	2,718	R
142-099-23CDCB4	125SNLB	--	--	--	2,718	R
142-099-23CDCB5	125SNLB	--	--	--	2,718	R
142-099-23CDCB6	125SNLB	--	--	--	2,718	LY
142-099-23CDCB7	125SNLB	--	--	--	2,718	LY
142-099-23CDCB8	125SNLB	--	--	--	2,718	LY
142-099-23CDDD	125SNLB	--	--	--	2,674	L
142-099-24ABC	--	640	7.2	8.0	--	R
142-099-25ADC	--	1,510	6.1	4.0	--	R
142-099-26BACC1	125SNLB	--	--	--	2,691	WL, L
142-099-26BACC2	125SNLB	--	--	--	2,691	WL, L
142-099-26BACC3	125SNLB	--	--	--	2,691	R
142-099-26BACC4	125SNLB	--	--	--	2,691	R
142-099-26BACC5	125SNLB	--	--	--	2,692	R
142-099-26BACC6	125SNLB	--	--	--	2,692	R

Table 1.--Well-construction and field water-quality data for wells, test holes, and springs--Continued

Township-range location number	Owner and name	Depth drilled, total (feet)	Depth of well, total (feet)	Diameter of casing (inches)	Date well constructed	Water level at time of water-quality sampling (feet below land surface)	Date of water-quality sampling
142-099-26BACC7	USGS K-5F	30	30	--	04-23-84	--	--
142-099-26BACC8	USGS K-5G	30	20	--	04-23-84	--	--
142-099-26BACC9	USGS K-5H	30	10	--	04-23-84	--	--
142-099-26BADA	USGS K-6	40	38	2.00	04-23-84	34.23	06-05-84
142-099-26BBAA1	USGS K-7A	55	55	2.00	04-24-84	49.40	06-05-84
142-099-26BBAA2	USGS K-7A1	30	30	--	04-25-84	--	--
142-099-26BBAA3	USGS K-7A2	20	20	--	04-25-84	--	--
142-099-26BBAA4	USGS K-7A3	10	10	--	04-25-84	--	--
142-099-26BBAA5	USGS K-7B	20	20	4.00	04-25-84	--	--
142-099-26BBAA6	USGS K-7C	10	10	4.00	04-25-84	--	--
142-099-26BBAA7	USGS K-7D	5.0	5.0	4.00	04-25-84	--	--
142-099-28ABA	Stanley Paluck	--	35	--	--	--	03-02-84
142-099-28DCC	George Jilek	--	20	--	--	--	03-02-84
142-099-35DDD	George Krushevsky	--	70	--	--	--	02-29-84

Table 1.--Well-construction and field water-quality data for wells, test holes, and springs--Continued

Township-range location number	Aquifer code	Specific conductance (µS/cm at 25 °C)	pH (standard units)	Temperature, water (°C)	Altitude of land surface (feet above sea level)	Remarks
142-099-26BACC7	125SNLB	--	--	--	2,692	LY
142-099-26BACC8	125SNLB	--	--	--	2,692	LY
142-099-26BACC9	125SNLB	--	--	--	2,692	LY
142-099-26BADA	125SNLB	--	--	--	2,689	WL, L
142-099-26BBAA1	125SNLB	--	--	--	2,718	WL, L
142-099-26BBAA2	125SNLB	--	--	--	2,719	LY
142-099-26BBAA3	125SNLB	--	--	--	2,719	LY
142-099-26BBAA4	125SNLB	--	--	--	2,719	LY
142-099-26BBAA5	125SNLB	--	--	--	2,720	R
142-099-26BBAA6	125SNLB	--	--	--	2,720	R
142-099-26BBAA7	125SNLB	--	--	--	2,719	R
142-099-28ABA	--	1,000	6.7	8.0	--	R
142-099-28DCC	--	1,030	6.8	8.0	--	R
142-099-35DDD	--	722	8.0	7.0	--	R

Table 2.--Water levels in selected wells

[Water levels are shown in feet below or above (+) land surface; altitude is for land-surface datum]

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 136-100-05ABCC		**Owner: USGS FZ-7**			
Depth of well: 19 feet		**Date drilled: 05-25-84**		**Altitude: 2,892 feet**	
Aug. 8, 1984...	7.90	Mar. 19.....	9.05	Mar. 16.....	8.53
Oct. 30.....	8.81	Apr. 28.....	8.27	Apr. 15.....	8.18
Nov. 8.....	8.88	May 15.....	8.02	May 15.....	8.17
Apr. 17, 1985...	8.96	June 16.....	8.22	June 15.....	8.17
May 16.....	8.91	July 14.....	8.32	July 15.....	8.25
June 13.....	8.53	Aug. 14.....	8.55	Aug. 18.....	8.19
July 15.....	8.95	Sept. 22.....	8.74	Sept. 14.....	8.34
Aug. 16.....	8.24	Oct. 14.....	8.46	Oct. 20.....	8.67
Sept. 16.....	9.16	Nov. 18.....	8.29	Nov. 16.....	8.84
Oct. 17.....	9.21	Dec. 15.....	8.33	Dec. 15.....	9.05
Nov. 19.....	9.29	Jan. 13, 1987...	8.56	Mar. 14, 1988...	9.55
Jan. 24, 1986...	9.59	Feb. 13.....	8.66	June 14.....	9.12
Period of record: Highest, 7.90, Aug. 8, 1984; lowest, 9.59, Jan. 24, 1986					
Township-range location number: 136-100-05ACAA		**Owner: USGS FZ-4**			
Depth of well: 50 feet		**Date drilled: 05-24-84**		**Altitude: 2,907 feet**	
Aug. 10, 1984...	44.69	Mar. 19.....	44.77	Mar. 16.....	44.24
Oct. 30.....	44.55	Apr. 28.....	44.22	Apr. 15.....	44.17
Nov. 8.....	44.69	May 15.....	44.34	May 15.....	44.25
Apr. 17, 1985...	44.50	June 16.....	44.42	June 15.....	44.18
May 16.....	45.03	July 14.....	44.41	July 15.....	43.91
June 13.....	44.59	Aug. 14.....	44.35	Aug. 18.....	39.02
July 15.....	44.92	Sept. 22.....	44.34	Sept. 14.....	35.25
Aug. 16.....	44.76	Oct. 14.....	44.40	Oct. 20.....	33.01
Sept. 16.....	44.47	Nov. 18.....	44.14	Nov. 16.....	32.19
Oct. 17.....	44.76	Dec. 15.....	44.31	Dec. 15.....	31.67
Nov. 19.....	44.80	Jan. 13, 1987...	44.16	Mar. 14, 1988...	31.28
Jan. 24, 1986...	44.59	Feb. 13.....	44.22	June 14.....	31.47
Period of record: Highest, 31.28, Mar. 14, 1988; lowest, 45.03, May 16, 1985					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 136-100-05ACBC			Owner: USGS FZ-1		
Depth of well: 16 feet		Date drilled: 05-25-84		Altitude: 2,906 feet	
July 31, 1984...	10.17	Mar. 19.....	10.49	Mar. 16.....	10.48
Oct. 30.....	9.74	Apr. 28.....	10.27	Apr. 15.....	10.46
Nov. 8.....	9.87	May 15.....	10.24	May 15.....	10.31
Apr. 17, 1985...	10.02	June 16.....	10.10	June 15.....	10.28
May 16.....	10.01	July 14.....	10.08	July 15.....	10.33
June 13.....	9.86	Aug. 19.....	10.12	Aug. 18.....	10.31
July 15.....	10.04	Sept. 22.....	10.24	Sept. 14.....	10.36
Aug. 16.....	10.02	Oct. 14.....	10.28	Oct. 20.....	10.46
Sept. 16.....	9.95	Nov. 18.....	10.35	Nov. 16.....	10.52
Oct. 17.....	10.20	Dec. 15.....	10.43	Dec. 15.....	10.59
Nov. 19.....	10.28	Jan. 13, 1987...	10.47	Mar. 14, 1988...	10.74
Jan. 24, 1986...	10.34	Feb. 13.....	10.51	June 15.....	10.66
Period of record: Highest, 9.74, Oct. 30, 1984; lowest, 10.74, Mar. 14, 1988					
Township-range location number: 136-100-05ACDB1			Owner: USGS FZ-6		
Depth of well: 118 feet		Date drilled: 05-31-84		Altitude: 2,936 feet	
Oct. 30, 1984...	72.28	Apr. 28.....	70.36	Apr. 15.....	70.41
Nov. 8.....	72.25	May 15.....	70.32	May 15.....	70.55
Apr. 17, 1985...	71.46	June 16.....	70.42	June 15.....	70.60
May 16.....	71.59	July 14.....	70.29	July 15.....	70.55
June 13.....	71.74	Aug. 14.....	70.37	Aug. 18.....	70.49
July 15.....	72.04	Sept. 22.....	70.24	Sept. 14.....	70.60
Aug. 16.....	71.64	Oct. 14.....	70.21	Oct. 20.....	70.64
Sept. 16.....	70.59	Nov. 18.....	70.19	Nov. 16.....	70.68
Oct. 17.....	70.44	Dec. 15.....	70.25	Dec. 15.....	70.73
Nov. 19.....	70.43	Jan. 13, 1987...	70.26	Mar. 14, 1988...	70.93
Jan. 24, 1986...	70.24	Feb. 13.....	70.08	June 14.....	71.45
Mar. 19.....	70.31	Mar. 16.....	70.39		
Period of record: Highest, 70.08, Feb. 13, 1987; lowest, 72.28, Oct. 30, 1984					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 136-100-05ACDB2			**Owner: USGS FZ-6A**		
Depth of well: 70 feet		**Date drilled: 06-01-84**		**Altitude: 2,936 feet**	
Oct. 30, 1984...	61.55	Apr. 28.....	60.30	Apr. 15.....	60.71
Nov. 8.....	61.22	May 15.....	60.18	May 15.....	60.73
Apr. 17, 1985...	60.20	June 16.....	60.37	June 15.....	60.73
May 16.....	60.05	July 14.....	60.49	July 15.....	60.69
June 13.....	59.98	Aug. 14.....	60.62	Aug. 18.....	60.69
July 15.....	60.12	Sept. 22.....	60.48	Sept. 14.....	60.73
Aug. 16.....	59.07	Oct. 14.....	60.47	Oct. 20.....	60.73
Sept. 16.....	60.20	Nov. 18.....	60.59	Nov. 16.....	60.76
Oct. 17.....	60.17	Dec. 15.....	60.61	Dec. 15.....	60.76
Nov. 19.....	60.26	Jan. 13, 1987...	60.65	Mar. 14, 1988...	60.73
Jan. 24, 1986...	60.25	Feb. 13.....	60.68	June 14.....	60.73
Mar. 19.....	60.39	Mar. 16.....	60.72		
Period of record: Highest, 59.07, Aug. 16, 1985; lowest, 61.55, Oct. 30, 1984					
Township-range location number: 136-100-05ACDD1			**Owner: USGS FZ-5A**		
Depth of well: 34 feet		**Date drilled: 06-01-84**		**Altitude: 2,891 feet**	
Oct. 30, 1984...	21.66	Apr. 28.....	20.31	Apr. 15.....	20.12
Nov. 8.....	21.38	May 15.....	20.33	May 15.....	20.24
Apr. 17, 1985...	20.20	June 16.....	20.45	June 15.....	20.31
May 16.....	20.27	July 14.....	20.51	July 15.....	20.33
June 13.....	20.32	Aug. 14.....	20.47	Aug. 18.....	20.12
July 15.....	20.57	Sept. 22.....	20.56	Sept. 14.....	20.10
Aug. 16.....	20.64	Oct. 14.....	20.47	Oct. 20.....	20.13
Sept. 16.....	20.52	Nov. 18.....	20.31	Nov. 16.....	20.09
Oct. 17.....	20.57	Dec. 15.....	20.23	Dec. 15.....	20.05
Nov. 19.....	20.49	Jan. 13, 1987...	20.15	Mar. 14, 1988...	19.92
Jan. 24, 1986...	20.28	Feb. 13.....	20.11	June 14.....	20.20
Mar. 19.....	20.28	Mar. 16.....	20.11		
Period of record: Highest, 19.92, Mar. 14, 1988; lowest, 21.66, Oct. 30, 1984					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 136-100-05BDAD			Owner: USGS FZ-2		
Depth of well: 45 feet		Date drilled: 05-24-84		Altitude: 2,920 feet	
Aug. 8, 1984...	29.48	Mar. 19.....	28.65	Mar. 16.....	29.31
Oct. 30.....	29.26	Apr. 28.....	29.28	Apr. 15.....	29.33
Nov. 8.....	29.30	May 15.....	29.45	May 15.....	29.42
Apr. 17, 1985...	29.25	June 16.....	29.54	June 15.....	29.44
May 16.....	29.80	July 14.....	29.53	July 15.....	29.30
June 13.....	29.34	Aug. 14.....	29.36	Aug. 18.....	29.64
July 15.....	30.59	Sept. 22.....	29.38	Sept. 14.....	29.29
Aug. 16.....	30.33	Oct. 14.....	29.45	Oct. 20.....	29.59
Sept. 16.....	29.06	Nov. 18.....	29.22	Nov. 16.....	29.20
Oct. 17.....	29.36	Dec. 15.....	29.38	Dec. 15.....	29.42
Nov. 19.....	29.46	Jan. 13, 1987...	29.24	Mar. 14, 1988...	29.53
Jan. 24, 1986...	29.24	Feb. 13.....	29.37	June 14.....	29.59
Period of record: Highest, 28.65, Mar. 19, 1986; lowest, 30.59, July 15, 1985					
Township-range location number: 136-100-05CAAA			Owner: USGS FZ-3		
Depth of well: 34 feet		Date drilled: 05-24-84		Altitude: 2,901 feet	
July 31, 1984...	27.84	Mar. 19.....	26.84	Mar. 16.....	26.40
Oct. 30.....	25.58	Apr. 28.....	26.36	Apr. 15.....	26.36
Nov. 8.....	26.50	May 15.....	26.60	May 15.....	26.51
Apr. 17, 1985...	26.29	June 16.....	26.63	June 15.....	26.44
May 16.....	27.05	July 15.....	26.64	July 15.....	26.26
June 13.....	26.40	Aug. 14.....	26.45	Aug. 18.....	26.79
July 15.....	26.74	Sept. 22.....	26.40	Sept. 14.....	26.39
Aug. 16.....	26.37	Oct. 14.....	26.52	Oct. 20.....	26.71
Sept. 16.....	25.98	Nov. 18.....	26.28	Nov. 16.....	26.32
Oct. 17.....	26.47	Dec. 15.....	26.49	Dec. 15.....	26.53
Nov. 19.....	26.56	Jan. 13, 1987...	26.33	Mar. 14, 1988...	26.57
Jan. 24, 1986...	26.34	Feb. 13.....	26.38	June 14.....	26.69
Period of record: Highest, 25.58, Oct. 30, 1984; lowest, 27.84, July 31, 1984					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 137-100-05CBDA			Owner: USGS S2-3		
Depth of well: 17 feet		Date drilled: 06-04-84		Altitude: 2,898 feet	
Aug. 8, 1984...	8.00	Mar. 19.....	10.02	Mar. 16.....	9.63
Oct. 29.....	9.36	Apr. 28.....	9.78	Apr. 15.....	9.51
Nov. 6.....	9.40	May 15.....	9.57	May 15.....	8.97
Apr. 16, 1985...	9.71	June 16.....	9.23	June 15.....	9.05
May 16.....	9.85	July 14.....	9.35	July 15.....	9.37
June 13.....	9.89	Aug. 14.....	9.73	Aug. 18.....	9.37
July 15.....	10.14	Sept. 15.....	10.00	Sept. 14.....	9.48
Aug. 16.....	10.32	Oct. 19.....	9.62	Oct. 20.....	9.65
Sept. 16.....	10.40	Nov. 18.....	9.64	Nov. 16.....	9.75
Oct. 17.....	10.28	Dec. 15.....	9.58	Dec. 15.....	9.84
Nov. 19.....	10.32	Jan. 13, 1987...	9.58	Mar. 14, 1988...	9.88
Jan. 24, 1986...	10.32	Feb. 13.....	9.55	June 14.....	10.74
Period of record: Highest, 8.00, Aug. 8, 1984; lowest, 10.74, June 14, 1988					
Township-range location number: 137-100-05DACB1			Owner: USGS S1-3A		
Depth of well: 20 feet		Date drilled: 05-23-84		Altitude: 2,938 feet	
Oct. 29, 1984...	3.15	Apr. 28.....	4.61	Apr. 15.....	4.14
Nov. 7.....	3.16	May 15.....	4.43	May 15.....	4.13
Apr. 16, 1985...	5.22	June 16.....	4.23	June 15.....	3.78
May 16.....	5.13	July 14.....	3.59	July 15.....	3.22
June 13.....	4.47	Aug. 14.....	3.13	Aug. 18.....	2.68
July 15.....	4.32	Sept. 15.....	2.86	Sept. 14.....	2.45
Aug. 16.....	3.81	Oct. 14.....	2.51	Oct. 20.....	2.83
Sept. 16.....	3.60	Nov. 18.....	2.69	Nov. 16.....	3.05
Oct. 17.....	3.72	Dec. 15.....	3.16	Dec. 15.....	3.58
Nov. 19.....	4.17	Jan. 13, 1987...	3.64	Mar. 15, 1988...	4.90
Jan. 24, 1986...	5.00	Feb. 13.....	4.04	June 14.....	4.54
Mar. 19.....	5.10	Mar. 16.....	4.25		
Period of record: Highest: 2.45, Sept. 14, 1987; lowest, 5.22, Apr. 16, 1985					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 137-100-05DBDA1				Owner: USGS S1-4	
Depth of well: 20 feet		Date drilled: 05-23-84		Altitude: 2,943 feet	
Aug. 7, 1984...	5.27	Mar. 19.....	7.12	Mar. 16.....	6.30
Oct. 29.....	5.35	Apr. 28.....	6.69	Apr. 15.....	6.21
Nov. 7.....	5.33	May 15.....	6.49	May 15.....	6.10
Apr. 16, 1985...	7.22	June 16.....	6.25	June 15.....	5.73
May 16.....	7.06	July 14.....	5.60	July 15.....	5.17
June 13.....	6.49	Aug. 14.....	5.11	Aug. 18.....	4.65
July 15.....	6.41	Sept. 15.....	4.95	Sept. 14.....	4.51
Aug. 16.....	5.87	Oct. 14.....	4.65	Oct. 20.....	4.88
Sept. 16.....	5.71	Nov. 18.....	4.91	Nov. 16.....	5.20
Oct. 17.....	5.80	Dec. 15.....	4.35	Dec. 15.....	5.69
Nov. 19.....	6.21	Jan. 13, 1987...	5.77	Mar. 15, 1988...	6.88
Jan. 24, 1986...	7.06	Feb. 13.....	6.15	June 14.....	6.32
Period of record: Highest, 4.35, Dec. 15, 1986; lowest, 7.22, Apr. 16, 1985					
Township-range location number: 137-100-05DBDA2				Owner: USGS S1-5A	
Depth of well: 43 feet		Date drilled: 05-24-84		Altitude: 2,960 feet	
Aug. 10, 1984...	24.89	Mar. 19.....	25.61	Mar. 16.....	25.29
Oct. 29.....	24.38	Apr. 28.....	25.38	Apr. 15.....	25.33
Nov. 7.....	24.11	May 15.....	25.49	May 15.....	25.46
Apr. 16, 1985...	25.34	June 16.....	25.60	June 15.....	25.36
May 16.....	25.70	July 14.....	25.44	July 15.....	25.05
June 13.....	25.31	Aug. 14.....	25.14	Aug. 18.....	25.14
July 15.....	25.39	Sept. 15.....	25.14	Sept. 14.....	24.79
Aug. 16.....	24.96	Oct. 14.....	24.95	Oct. 20.....	24.99
Sept. 16.....	24.58	Nov. 18.....	24.67	Nov. 16.....	24.63
Oct. 17.....	24.72	Dec. 15.....	24.91	Dec. 15.....	24.85
Nov. 19.....	24.88	Jan. 13, 1987...	24.91	Mar. 14, 1988...	25.48
Jan. 24, 1986...	24.96	Feb. 13.....	25.17	June 14.....	25.84
Period of record: Highest, 24.11, Nov. 7, 1984; lowest, 25.84, June 14, 1988					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 137-100-05DBDD1				Owner: USGS S1-1	
Depth of well: 36 feet		Date drilled: 05-23-84		Altitude: 2,951 feet	
Aug. 1, 1984...	18.50	Mar. 19.....	19.50	Mar. 16.....	18.73
Oct. 29.....	17.37	Apr. 28.....	19.65	Apr. 15.....	19.02
Nov. 7.....	17.39	May 15.....	19.58	May 15.....	19.21
Apr. 16, 1985...	19.86	June 16.....	19.42	June 15.....	18.98
May 16.....	20.06	July 14.....	18.81	July 15.....	18.35
June 13.....	19.76	Aug. 14.....	18.20	Aug. 18.....	17.57
July 15.....	19.43	Sept. 15.....	17.62	Sept. 14.....	17.19
Aug. 16.....	18.15	Oct. 14.....	16.98	Oct. 20.....	17.04
Sept. 16.....	18.42	Nov. 18.....	16.87	Nov. 16.....	17.12
Oct. 17.....	18.03	Dec. 15.....	17.19	Dec. 15.....	17.47
Nov. 19.....	18.18	Jan. 13, 1987...	17.70	Mar. 14, 1988...	19.09
Jan. 24, 1986...	19.05	Feb. 13.....	18.26	June 14.....	19.58
Period of record: Highest, 16.87, Nov. 18, 1986; lowest, 20.06, May 16, 1985					
Township-range location number: 137-100-05DBDD2				Owner: USGS S1-2	
Depth of well: 21 feet		Date drilled: 05-23-84		Altitude: 2,942 feet	
Aug. 1, 1984...	6.01	Mar. 19.....	7.67	Mar. 16.....	6.85
Oct. 29.....	5.84	Apr. 28.....	7.23	Apr. 15.....	6.75
Nov. 6.....	5.84	May 15.....	7.05	May 15.....	6.72
Apr. 16, 1985...	7.80	June 16.....	6.83	June 15.....	6.39
May 16.....	7.72	July 14.....	6.18	July 15.....	5.83
June 13.....	7.09	Aug. 14.....	5.67	Aug. 18.....	5.29
July 15.....	6.94	Sept. 15.....	5.47	Sept. 14.....	5.08
Aug. 16.....	7.33	Oct. 14.....	5.11	Oct. 20.....	5.43
Sept. 16.....	6.24	Nov. 18.....	5.30	Nov. 16.....	5.67
Oct. 17.....	6.34	Dec. 15.....	5.76	Dec. 15.....	6.19
Nov. 19.....	6.79	Jan. 13, 1987...	6.22	Mar. 14, 1988...	7.51
Jan. 24, 1986...	7.61	Feb. 13.....	6.65	June 14.....	7.19
Period of record: Highest, 5.08, Sept. 14, 1987; lowest, 7.80, Apr. 16, 1985					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 140-099-06AAAA			Owner: USGS P-18		
Depth of well: 18 feet		Date drilled: 12-15-83		Altitude: 2,703 feet	
Apr. 24, 1984...	14.05	Mar. 18.....	15.38	May 15.....	12.46
Oct. 29.....	12.43	Apr. 23.....	14.42	June 15.....	12.51
Nov. 13.....	12.43	May 15.....	13.75	July 15.....	12.82
Apr. 15, 1985...	14.65	June 16.....	13.24	Aug. 17.....	12.07
May 17.....	14.83	July 14.....	12.94	Sept. 14.....	11.71
June 14.....	15.06	Aug. 15.....	12.10	Oct. 19.....	12.10
July 16.....	15.34	Sept. 15.....	12.34	Nov. 16.....	12.44
Aug. 16.....	15.23	Oct. 14.....	12.50	Dec. 15.....	12.89
Sept. 16.....	15.82	Nov. 13.....	12.47	Jan. 15, 1988...	13.09
Oct. 17.....	16.28	Dec. 15.....	12.57	Feb. 16.....	13.70
Nov. 18.....	16.58	Jan. 13, 1987...	12.53	Mar. 15.....	13.98
Dec. 17.....	17.03	Feb. 13.....	12.69	Apr. 15.....	14.00
Jan. 23, 1986...	17.24	Mar. 16.....	12.96	May 16.....	14.06
Feb. 17.....	17.49	Apr. 15.....	12.82	June 15.....	14.27
Period of record: Highest, 11.71, Sept. 14, 1987; lowest, 17.49, Feb. 17, 1986					
Township-range location number: 140-099-06ACCD2			Owner: USGS P-1A		
Depth of well: 237 feet		Date drilled: 12-12-83		Altitude: 2,700 feet	
Apr. 16, 1985...	169.57	July 14.....	169.84	Aug. 17.....	169.85
May 16.....	169.96	Aug. 15.....	169.68	Sept. 14.....	169.72
June 14.....	169.62	Sept. 15.....	170.12	Oct. 19.....	169.75
July 16.....	169.78	Oct. 14.....	169.91	Nov. 16.....	169.69
Aug. 16.....	169.43	Nov. 18.....	169.94	Dec. 15.....	169.15
Sept. 16.....	169.36	Dec. 15.....	169.85	Jan. 15, 1988...	169.15
Oct. 17.....	169.76	Jan. 13, 1987...	169.72	Feb. 16.....	169.64
Nov. 18.....	169.71	Feb. 13.....	169.69	Mar. 15.....	169.58
Jan. 23, 1986...	169.61	Mar. 16.....	169.76	Apr. 15.....	169.99
Mar. 18.....	169.69	Apr. 15.....	169.54	May 16.....	169.79
Apr. 23.....	169.48	May 15.....	168.78	June 15.....	170.06
May 15.....	169.57	June 15.....	169.79		
June 16.....	169.91	July 15.....	169.60		
Period of record: Highest, 168.78, May 15, 1987; lowest, 170.12, Sept. 15, 1986					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 140-099-06ACCD3		**Owner: USGS P-2**			
Depth of well: 29 feet		**Date drilled: 12-13-83**		**Altitude: 2,700 feet**	
May 16, 1984...	12.09	May 15.....	13.01	June 15.....	12.39
Oct. 29.....	12.84	June 16.....	13.03	July 15.....	12.18
Apr. 15, 1985...	12.93	July 14.....	11.99	Aug. 17.....	12.53
May 16.....	12.99	Aug. 15.....	12.08	Sept. 14.....	11.43
June 14.....	13.03	Sept. 15.....	12.85	Oct. 19.....	11.79
July 16.....	18.30	Oct. 14.....	12.38	Nov. 16.....	11.82
Aug. 16.....	20.56	Nov. 18.....	12.55	Dec. 15.....	12.08
Sept. 16.....	18.65	Dec. 15.....	12.64	Jan. 15, 1988...	11.89
Oct. 17.....	16.90	Jan. 13, 1987...	12.61	Feb. 16.....	12.50
Nov. 18.....	15.61	Feb. 13.....	12.59	Mar. 15.....	12.52
Jan. 23, 1986...	14.74	Mar. 16.....	12.68	Apr. 15.....	12.44
Mar. 18.....	13.69	Apr. 15.....	11.83	May 16.....	12.46
Apr. 23.....	13.30	May 15.....	12.13	June 15.....	12.93
Period of record: Highest, 11.43, Sept. 14, 1987; lowest, 20.56, Aug. 16, 1985					
Township-range location number: 140-099-06ACCD4		**Owner: USGS P-31**			
Depth of well: 27 feet		**Date drilled: 06-06-86**		**Altitude: 2,704 feet**	
June 13, 1986...	12.81	Jan. 15, 1988...	11.60	Apr. 15.....	12.22
June 20.....	12.86	Feb. 16.....	12.27	May 16.....	12.26
Oct. 30.....	11.98	Mar. 15.....	12.33	June 15.....	12.76
Period of record: Highest, 11.60, Jan. 15, 1988; lowest, 12.86, June 20, 1986					
Township-range location number: 140-099-06ACCD12		**Owner: USGS P-32**			
Depth of well: 31 feet		**Date drilled: 06-05-86**		**Altitude: 2,706 feet**	
June 13, 1986...	14.84	Jan. 15, 1988...	13.26	Apr. 15.....	13.78
June 20.....	14.44	Feb. 16.....	13.89	May 16.....	13.82
Oct. 28.....	13.94	Mar. 15.....	13.87	June 15.....	14.33
Period of record: Highest, 13.26, Jan. 15, 1988; lowest, 14.84, June 13, 1986					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 140-099-06ACCD13			Owner: USGS P-33		
Depth of well: 36 feet		Date drilled: 06-05-86		Altitude: 2,710 feet	
June 13, 1986...	18.00	Jan. 15, 1988...	16.78	Apr. 15.....	17.33
June 20.....	18.50	Feb. 16.....	17.42	May 16.....	17.37
Oct. 28.....	17.55	Mar. 15.....	17.42	June 15.....	17.88
Period of record: Highest, 16.78, Jan. 15, 1988; lowest, 18.50, June 20, 1986					
Township-range location number: 140-099-06ACDD			Owner: USGS P-24		
Depth of well: 32 feet		Date drilled: 06-06-86		Altitude: 2,710 feet	
June 13, 1986...	18.36	Jan. 15, 1988...	17.38	Apr. 15.....	17.95
June 20.....	18.50	Feb. 16.....	17.81	May 16.....	17.91
Oct. 29.....	18.01	Mar. 15.....	17.95	June 15.....	18.13
Period of record: Highest, 17.38, Jan. 15, 1988; lowest, 18.50, June 20, 1986					
Township-range location number: 140-099-06ADCC			Owner: USGS P-23		
Depth of well: 29 feet		Date drilled: 06-06-86		Altitude: 2,711 feet	
June 13, 1986...	20.79	Jan. 15, 1988...	20.11	Apr. 15.....	20.42
June 20.....	20.81	Feb. 16.....	20.40	May 16.....	20.39
Oct. 29.....	20.67	Mar. 15.....	20.46	June 15.....	20.63
Period of record: Highest, 20.11, Jan. 15, 1988; lowest, 20.81, June 20, 1986					
Township-range location number: 140-099-06BACD			Owner: USGS P-36		
Depth of well: 38 feet		Date drilled: 06-06-86		Altitude: 2,719 feet	
June 13, 1986...	20.28	Jan. 15, 1988...	20.60	Apr. 15.....	22.45
June 20.....	20.46	Feb. 16.....	22.14	May 16.....	22.48
Oct. 27.....	20.70	Mar. 15.....	22.46	June 15.....	22.72
Period of record: Highest, 20.28, June 13, 1986; lowest, 22.72, June 15, 1988					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 140-099-06BCAD			**Owner: USGS P-10**		
Depth of well: 20 feet		**Date drilled: 12-14-83**		**Altitude: 2,696 feet**	
May 16, 1984...	4.15	May 15.....	3.92	July 15.....	4.63
Oct. 29.....	4.95	June 16.....	4.60	Aug. 17.....	4.59
Apr. 15, 1985...	4.60	July 14.....	4.07	Sept. 14.....	4.66
May 17.....	4.86	Aug. 15.....	4.65	Oct. 19.....	4.72
June 14.....	5.15	Sept. 15.....	4.81	Nov. 16.....	4.58
July 16.....	5.82	Oct. 14.....	4.33	Dec. 15.....	4.57
Aug. 16.....	5.75	Nov. 18.....	4.28	Jan. 5, 1988...	4.45
Sept. 16.....	5.67	Dec. 15.....	4.20	Feb. 16.....	4.48
Oct. 17.....	5.43	Jan. 13, 1987...	4.15	Mar. 15.....	4.37
Nov. 18.....	5.28	Feb. 13.....	4.03	Apr. 15.....	4.32
Dec. 17.....	5.26	Mar. 16.....	4.05	May 16.....	4.60
Jan. 23, 1986...	5.02	Apr. 15.....	3.67	June 15.....	5.26
Mar. 18.....	4.05	May 15.....	4.25		
Apr. 23.....	4.05	June 15.....	4.68		
Period of record: Highest, 3.67, Apr. 15, 1987; lowest, 5.82, July 16, 1985					
Township-range location number: 140-099-06BCBC			**Owner: USGS P-8**		
Depth of well: 17 feet		**Date drilled: 12-14-83**		**Altitude: 2,704 feet**	
May 16, 1984...	12.25	May 15.....	12.93	July 15.....	12.66
Oct. 29.....	12.92	June 16.....	12.79	Aug. 17.....	12.62
Apr. 15, 1985...	13.07	July 14.....	12.69	Sept. 14.....	12.54
May 17.....	12.93	Aug. 15.....	12.45	Oct. 19.....	12.68
June 14.....	12.93	Sept. 15.....	12.63	Nov. 16.....	12.69
July 16.....	13.13	Oct. 14.....	12.23	Dec. 15.....	12.72
Aug. 16.....	13.37	Nov. 18.....	12.24	Jan. 15, 1988...	12.72
Sept. 16.....	13.37	Dec. 15.....	12.24	Feb. 16.....	12.78
Oct. 17.....	13.36	Jan. 13, 1987...	12.32	Mar. 15.....	12.85
Nov. 18.....	13.30	Feb. 13.....	12.42	Apr. 15.....	12.78
Jan. 23, 1986...	13.35	Mar. 16.....	12.38	May 16.....	12.67
Feb. 17.....	13.30	Apr. 15.....	12.18	June 15.....	12.86
Mar. 18.....	13.26	May 15.....	12.09		
Apr. 23.....	13.11	June 15.....	12.25		
Period of record: Highest, 12.09, May 15, 1987; lowest, 13.37, Aug. 16, 1985, and Sept. 16, 1985					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 140-099-06BDAB		Owner: USGS P-17			
Depth of well: 38 feet		Date drilled: 12-15-83		Altitude: 2,708 feet	
May 16, 1984...	19.07	May 15.....	16.97	June 15.....	17.88
Oct. 29.....	19.37	June 16.....	17.19	July 15.....	17.70
Apr. 15, 1985...	18.49	July 14.....	17.06	Aug. 17.....	18.27
May 17.....	19.52	Aug. 15.....	17.05	Sept. 14.....	18.42
June 14.....	19.59	Sept. 15.....	17.67	Oct. 19.....	18.48
July 16.....	19.45	Oct. 14.....	17.76	Nov. 16.....	18.57
Aug. 16.....	17.12	Nov. 18.....	17.87	Dec. 15.....	18.71
Sept. 16.....	16.39	Dec. 15.....	17.88	Jan. 15, 1988...	18.53
Oct. 17.....	16.37	Jan. 13, 1987...	17.91	Feb. 16.....	18.85
Nov. 18.....	16.20	Feb. 13.....	17.98	Mar. 15.....	19.22
Jan. 23, 1986...	16.63	Mar. 16.....	18.10	Apr. 15.....	19.25
Mar. 18.....	16.76	Apr. 15.....	17.56	May 16.....	19.26
Apr. 23.....	16.77	May 15.....	17.65	June 15.....	19.43
Period of record: Highest, 16.20, Nov. 18, 1985; lowest, 19.59, June 14, 1985					
Township-range location number: 140-099-06BDBA1		Owner: USGS P-37			
Depth of well: 33 feet		Date drilled: 06-06-86		Altitude: 2,715 feet	
June 13, 1986...	16.94	Jan. 15, 1988...	16.99	Apr. 15.....	17.81
June 20.....	15.66	Feb. 16.....	17.55	May 16.....	17.81
Oct. 29.....	16.34	Mar. 15.....	17.86	June 15.....	18.06
Period of record: Highest, 15.66, June 20, 1986; lowest, 18.06, June 15, 1988					
Township-range location number: 140-099-06BDBA2		Owner: USGS P-38			
Depth of well: 31 feet		Date drilled: 06-06-86		Altitude: 2,711 feet	
June 13, 1986...	14.64	Jan. 15, 1988...	14.73	Apr. 15.....	15.59
June 20.....	13.92	Feb. 16.....	15.42	May 16.....	15.59
Oct. 29.....	13.95	Mar. 15.....	15.73	June 15.....	15.95
Period of record: Highest, 13.92, June 20, 1986; lowest, 15.95, June 15, 1988					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 140-099-06BDBB1				Owner: USGS P-22A	
Depth of well: 28 feet		Date drilled: 05-17-84		Altitude: 2,712 feet	
June 5, 1984...	9.17	May 15.....	8.61	June 15.....	9.14
Oct. 29.....	10.09	June 16.....	8.97	July 15.....	9.24
Apr. 15, 1985...	10.68	July 14.....	8.75	Aug. 17.....	9.35
May 17.....	10.81	Aug. 15.....	8.77	Sept. 14.....	9.29
June 14.....	11.01	Sept. 15.....	8.27	Oct. 19.....	9.57
July 16.....	11.37	Oct. 14.....	9.08	Nov. 16.....	9.45
Aug. 16.....	11.40	Nov. 18.....	9.01	Dec. 15.....	9.56
Sept. 16.....	11.09	Dec. 15.....	9.03	Jan. 15, 1988...	9.33
Oct. 17.....	10.91	Jan. 13, 1987...	9.02	Feb. 16.....	9.65
Nov. 18.....	10.54	Feb. 13.....	9.02	Mar. 15.....	9.71
Jan. 23, 1986...	10.08	Mar. 16.....	9.09	Apr. 15.....	9.62
Mar. 18.....	9.07	Apr. 15.....	8.65	May 16.....	9.71
Apr. 23.....	8.80	May 15.....	8.73	June 15.....	10.22
Period of record: Highest, 8.27, Sept. 15, 1986; lowest, 11.40, Aug. 16, 1985					
Township-range location number: 140-099-06BDCA1				Owner: USGS P-11	
Depth of well: 24 feet		Date drilled: 12-14-83		Altitude: 2,694 feet	
May 16, 1984...	5.70	May 15.....	6.17	June 15.....	6.13
Oct. 29.....	6.55	June 16.....	6.53	July 15.....	5.73
Apr. 15, 1985...	6.15	July 14.....	5.60	Aug. 17.....	4.40
May 17.....	6.31	Aug. 15.....	6.09	Sept. 14.....	4.56
June 14.....	5.67	Sept. 15.....	6.38	Oct. 19.....	5.00
July 16.....	5.76	Oct. 14.....	5.96	Nov. 16.....	5.10
Aug. 16.....	7.77	Nov. 18.....	5.93	Dec. 15.....	5.34
Sept. 16.....	8.13	Dec. 15.....	5.95	Jan. 15, 1988...	5.32
Oct. 17.....	8.12	Jan. 13, 1987...	5.90	Feb. 16.....	5.60
Oct. 17.....	7.80	Feb. 13.....	5.85	Mar. 15.....	5.60
Jan. 23, 1986...	7.35	Mar. 16.....	5.95	Apr. 15.....	5.50
Mar. 18.....	6.64	Apr. 15.....	5.21	May 16.....	5.79
Apr. 23.....	6.39	May 15.....	5.77	June 15.....	6.51
Period of record: Highest, 4.40, Aug. 17, 1987; lowest, 8.13, Sept. 16, 1985					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 140-099-06CAAB			Owner: USGS P-5		
Depth of well: 30 feet		Date drilled: 12-13-83		Altitude: 2,705 feet	
May 16, 1984...	14.34	May 15.....	15.02	June 15.....	14.63
Oct. 29.....	15.29	June 16.....	15.18	July 15.....	13.97
Apr. 15, 1985...	15.08	July 14.....	14.31	Aug. 17.....	12.03
May 16.....	15.19	Aug. 15.....	14.53	Sept. 14.....	12.09
June 14.....	13.30	Sept. 15.....	15.07	Oct. 19.....	12.81
July 16.....	13.78	Oct. 14.....	14.66	Nov. 16.....	13.09
Aug. 16.....	15.65	Nov. 18.....	14.62	Dec. 15.....	13.48
Sept. 16.....	16.36	Dec. 15.....	14.66	Jan. 15, 1988...	13.59
Oct. 17.....	16.73	Jan. 13, 1987...	14.67	Feb. 16.....	14.09
Nov. 18.....	16.53	Feb. 13.....	14.61	Mar. 15.....	14.07
Jan. 23, 1986...	16.25	Mar. 16.....	14.65	Apr. 15.....	14.06
Mar. 18.....	15.46	Apr. 15.....	13.90	May 16.....	14.28
Apr. 23.....	15.18	May 15.....	14.29	June 15.....	14.92
Period of record: Highest, 12.03, Aug. 17, 1987; lowest, 16.73, Oct. 17, 1985					
Township-range location number: 140-099-06CABC1			Owner: USGS P-21A		
Depth of well: 12 feet		Date drilled: 05-17-84		Altitude: 2,693 feet	
June 5, 1984...	4.17	May 15.....	2.89	June 15.....	4.96
Oct. 29.....	4.80	June 16.....	4.66	July 15.....	3.03
Apr. 15, 1985...	3.77	July 14.....	3.09	Aug. 17.....	+.38
May 17.....	4.30	Aug. 15.....	5.03	Sept. 14.....	+.11
June 14.....	+.44	Sept. 15.....	4.58	Oct. 19.....	.96
July 16.....	+.02	Oct. 14.....	2.80	Nov. 16.....	1.46
Aug. 16.....	1.36	Nov. 18.....	3.10	Dec. 15.....	2.03
Sept. 16.....	2.70	Dec. 15.....	3.90	Jan. 15, 1988...	3.76
Oct. 17.....	2.30	Jan. 13, 1987...	4.38	Feb. 16.....	4.14
Nov. 18.....	4.21	Feb. 13.....	3.79	Mar. 15.....	2.52
Jan. 23, 1986...	4.12	Mar. 16.....	2.86	Apr. 15.....	2.60
Mar. 18.....	2.84	Apr. 15.....	2.37	May 16.....	3.65
Apr. 23.....	2.78	May 15.....	3.98	June 15.....	3.50
Period of record: Highest, +0.44, June 14, 1985; lowest, 5.03, Aug. 15, 1986					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 140-099-06CABD		Owner: USGS P-6			
Depth of well: 32 feet		Date drilled: 12-13-83		Altitude: 2,712 feet	
May 16, 1984...	20.76	May 15.....	21.16	June 15.....	21.14
Oct. 29.....	21.79	June 16.....	21.52	July 15.....	20.05
Apr. 15, 1985...	21.42	July 14.....	20.89	Aug. 17.....	17.22
May 17.....	21.59	Aug. 15.....	21.12	Sept. 14.....	17.28
June 14.....	18.18	Sept. 15.....	21.50	Oct. 19.....	18.24
July 16.....	17.40	Oct. 14.....	21.10	Nov. 16.....	18.69
Aug. 16.....	18.88	Nov. 18.....	21.01	Dec. 15.....	18.17
Sept. 16.....	20.26	Dec. 15.....	21.07	Jan. 15, 1988...	19.50
Oct. 17.....	21.17	Jan. 13, 1987...	21.12	Feb. 16.....	19.96
Nov. 18.....	21.74	Feb. 13.....	20.99	Mar. 15.....	19.85
Jan. 23, 1986...	22.11	Mar. 16.....	20.99	Apr. 15.....	20.05
Mar. 18.....	21.20	Apr. 15.....	20.35	May 16.....	20.34
Apr. 23.....	21.19	May 15.....	20.72	June 15.....	20.56
Period of record: Highest, 17.22, Aug. 17, 1987; lowest, 22.11, Jan. 23, 1986					
Township-range location number: 140-099-06CBBD1		Owner: USGS P-20A			
Depth of well: 58 feet		Date drilled: 05-18-84		Altitude: 2,720 feet	
June 5, 1984...	36.83	May 15.....	37.12	June 15.....	36.59
Oct. 29.....	37.18	June 16.....	37.13	July 15.....	36.60
Apr. 15, 1985...	37.50	July 14.....	36.83	Aug. 17.....	36.89
May 17.....	37.66	Aug. 15.....	36.25	Sept. 14.....	36.52
June 14.....	37.63	Sept. 15.....	36.70	Oct. 19.....	36.59
July 16.....	37.38	Oct. 14.....	36.68	Nov. 16.....	36.51
Aug. 16.....	37.22	Nov. 18.....	36.70	Dec. 15.....	36.87
Sept. 16.....	37.10	Dec. 15.....	36.81	Jan. 15, 1988...	36.49
Oct. 17.....	37.51	Jan. 13, 1987...	36.80	Feb. 16.....	36.95
Nov. 18.....	37.59	Feb. 13.....	36.92	Mar. 15.....	37.46
Jan. 23, 1986...	37.78	Mar. 16.....	36.91	Apr. 15.....	37.44
Mar. 18.....	37.92	Apr. 15.....	36.53	May 16.....	37.73
Apr. 23.....	37.10	May 15.....	36.43	June 15.....	37.89
Period of record: Highest, 36.25, Aug. 15, 1986; lowest, 37.92, Mar. 18, 1986					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 140-099-06CCCC			**Owner: USGS F-6**		
Depth of well: 15 feet		**Date drilled: 05-16-84**		**Altitude: 2,670 feet**	
Aug. 15, 1984...	12.08	Apr. 23.....	10.26	June 15.....	8.39
Oct. 29.....	8.76	May 15.....	9.90	July 15.....	7.57
Nov. 7.....	8.66	June 16.....	9.30	Aug. 17.....	7.82
Apr. 16, 1985...	10.36	July 14.....	8.71	Sept. 14.....	7.70
May 17.....	10.25	Aug. 15.....	8.38	Oct. 19.....	7.83
June 14.....	9.81	Sept. 15.....	8.32	Nov. 16.....	7.99
July 15.....	9.54	Oct. 14.....	8.27	Dec. 15.....	8.36
Aug. 16.....	8.98	Nov. 18.....	8.45	Jan. 15, 1988...	8.63
Sept. 16.....	8.30	Dec. 15.....	8.72	Feb. 16.....	9.33
Oct. 17.....	8.56	Jan. 13, 1987...	8.95	Mar. 15.....	9.77
Nov. 18.....	8.95	Feb. 13.....	9.15	Apr. 15.....	9.78
Jan. 23, 1986...	9.85	Mar. 16.....	9.07	May 15.....	9.53
Feb. 17.....	10.03	Apr. 15.....	8.79	June 15.....	9.24
Mar. 18.....	10.29	May 15.....	8.60		
Period of record: Highest, 7.57, July 15, 1987; lowest, 12.08, Aug. 15, 1984					
Township-range location number: 140-099-06DAAD			**Owner: USGS P-7**		
Depth of well: 30 feet		**Date drilled: 12-13-83**		**Altitude: 2,700 feet**	
Apr. 24, 1984...	14.57	Apr. 23.....	12.56	June 15.....	14.36
Oct. 29.....	15.12	May 15.....	12.20	July 15.....	14.99
Apr. 15, 1985...	16.08	June 16.....	13.13	Aug. 17.....	14.67
May 16.....	16.22	July 14.....	12.85	Sept. 14.....	14.92
June 14.....	16.39	Aug. 15.....	12.99	Oct. 19.....	15.53
July 16.....	16.80	Sept. 15.....	14.29	Nov. 16.....	15.80
Aug. 16.....	17.10	Oct. 14.....	14.44	Dec. 15.....	16.09
Sept. 16.....	17.25	Nov. 13.....	14.49	Jan. 15, 1988...	16.16
Oct. 17.....	17.56	Dec. 15.....	14.81	Feb. 16.....	16.59
Nov. 18.....	17.64	Jan. 13, 1987...	14.89	Mar. 15.....	15.95
Dec. 17.....	17.87	Feb. 13.....	15.04	Apr. 15.....	15.72
Jan. 23, 1986...	17.81	Mar. 16.....	14.85	May 16.....	15.89
Feb. 17.....	17.56	Apr. 15.....	13.36	June 15.....	16.54
Mar. 18.....	13.44	May 15.....	13.70		
Period of record: Highest, 12.20, May 15, 1986; lowest, 17.87, Dec. 17, 1985					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 140-099-06DABB1		**Owner: USGS P-19**			
Depth of well: 61 feet		**Date drilled: 05-22-84**		**Altitude: 2,742 feet**	
June 5, 1984...	48.57	May 16.....	49.54	Aug. 16.....	51.13
Oct. 29.....	49.03	June 14.....	49.93		
Apr. 15, 1985...	49.46	July 16.....	50.61		
Period of record: Highest, 48.57, June 5, 1984; lowest, 51.13, Aug. 16, 1985					
Township-range location number: 140-099-06DABB9		**Owner: USGS P-19H**			
Depth of well: 34 feet		**Date drilled: 06-05-86**		**Altitude: 2,715 feet**	
June 13, 1986...	23.52	Jan. 15, 1988...	22.51	Apr. 15.....	22.92
June 20.....	23.54	Feb. 16.....	22.88	May 16.....	22.90
Oct. 30.....	22.87	Mar. 15.....	22.95	June 15.....	23.19
Period of record: Highest, 22.51, Jan. 15, 1988; lowest, 23.54, June 20, 1986					
Township-range location number: 140-099-06DABC		**Owner: USGS P-35**			
Depth of well: 27 feet		**Date drilled: 06-06-86**		**Altitude: 2,711 feet**	
June 13, 1986...	20.17	Jan. 15, 1988...	18.52	Apr. 15.....	19.09
June 20.....	20.16	Feb. 16.....	18.98	May 16.....	19.05
Oct. 28.....	19.58	Mar. 15.....	19.09	June 15.....	19.21
Period of record: Highest, 18.52, Jan. 15, 1988; lowest, 20.17, June 13, 1986					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 140-099-06DABD		**Owner: USGS P-4**			
Depth of well: 18 feet		**Date drilled: 12-13-83**		**Altitude: 2,708 feet**	
June 5, 1984...	13.19	May 15.....	16.04	June 15.....	15.54
Oct. 29.....	14.43	June 16.....	16.14	July 15.....	15.63
Apr. 15, 1985...	14.90	July 14.....	15.57	Aug. 17.....	15.19
May 16.....	15.10	Aug. 15.....	15.00	Sept. 14.....	15.45
June 14.....	14.98	Sept. 15.....	15.60	Oct. 19.....	15.56
July 16.....	15.23	Oct. 14.....	15.70	Nov. 16.....	15.59
Aug. 16.....	15.37	Nov. 13.....	15.77	Dec. 15.....	15.65
Sept. 16.....	15.48	Dec. 15.....	15.78	Jan. 15, 1988...	15.50
Oct. 17.....	15.83	Jan. 13, 1987...	15.75	Feb. 16.....	15.73
Nov. 18.....	16.01	Feb. 13.....	14.82	Mar. 15.....	15.86
Jan. 23, 1986...	16.24	Mar. 16.....	15.47	Apr. 15.....	15.82
Mar. 18.....	15.47	Apr. 15.....	15.11	May 16.....	15.86
Apr. 23.....	15.85	May 15.....	15.35	June 15.....	16.08
Period of record: Highest, 13.19, June 5, 1984; lowest, 16.24, Jan. 23, 1986					
Township-range location number: 140-099-06DBAB1		**Owner: USGS P-26**			
Depth of well: 32 feet		**Date drilled: 06-06-86**		**Altitude: 2,709 feet**	
June 13, 1986...	18.41	Jan. 15, 1988...	15.77	Apr. 15.....	16.47
June 20.....	18.41	Feb. 16.....	16.34	May 16.....	16.44
Oct. 28.....	16.85	Mar. 15.....	16.51	June 15.....	16.71
Period of record: Highest, 15.77, Jan. 15, 1988; lowest, 18.41, June 13, 1986, and June 20, 1986					
Township-range location number: 140-099-06DBAB2		**Owner: USGS P-30**			
Depth of well: 31 feet		**Date drilled: 06-06-86**		**Altitude: 2,708 feet**	
June 13, 1986...	15.62	Jan. 15, 1988...	14.76	Apr. 15.....	15.70
June 20.....	16.03	Feb. 16.....	15.47	May 16.....	15.69
Oct. 29.....	15.78	Mar. 15.....	15.83	June 15.....	16.05
Period of record: Highest, 14.76, Jan. 15, 1988; lowest, 16.05, June 15, 1988					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 140-099-06DBAB3		**Owner: USGS P-28**			
Depth of well: 31 feet		**Date drilled: 06-05-86**		**Altitude: 2,706 feet**	
June 13, 1986...	14.65	Feb. 16.....	13.95	May 16.....	14.10
Oct. 30.....	13.77	Mar. 15.....	14.26	June 15.....	14.42
Jan. 15, 1988...	13.29	Apr. 15.....	14.16		
Period of record: Highest, 13.29, Jan. 15, 1988; lowest, 14.65, June 13, 1986					
Township-range location number: 140-099-06DBAB8		**Owner: USGS P-27**			
Depth of well: 29 feet		**Date drilled: 06-05-86**		**Altitude: 2,709 feet**	
June 13, 1986...	17.92	Jan. 15, 1988...	15.71	Apr. 15.....	16.38
June 20.....	17.13	Feb. 16.....	16.22	May 16.....	16.35
Oct. 30.....	16.20	Mar. 15.....	16.43	June 15.....	16.57
Period of record: Highest, 15.71, Jan. 15, 1988; lowest, 17.92, June 13, 1986					
Township-range location number: 140-099-06DBAD		**Owner: USGS P-25**			
Depth of well: 36 feet		**Date drilled: 06-05-86**		**Altitude: 2,713 feet**	
June 13, 1986...	18.36	Jan. 15, 1988...	19.89	Apr. 15.....	20.45
June 20.....	21.66	Feb. 16.....	20.27	May 16.....	20.42
Oct. 28.....	20.96	Mar. 15.....	20.45	June 15.....	20.60
Period of record: Highest, 18.36, June 13, 1986; lowest, 21.66, June 20, 1986					
Township-range location number: 140-099-06DBBA2		**Owner: USGS P-34**			
Depth of well: 36 feet		**Date drilled: 06-06-86**		**Altitude: 2,712 feet**	
June 13, 1986...	20.13	Jan. 15, 1988...	18.82	Apr. 15.....	19.44
June 20.....	20.22	Feb. 16.....	19.50	May 16.....	19.48
Oct. 28.....	19.73	Mar. 15.....	19.53	June 15.....	19.97
Period of record: Highest, 18.82, Jan. 15, 1988; lowest, 20.22, June 20, 1986					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 140-099-06DBBD				**Owner: USGS P-3**	
Depth of well: 39 feet		**Date drilled: 12-13-83**		**Altitude: 2,708 feet**	
May 16, 1984...	23.43	Apr. 23.....	24.96	June 15.....	23.64
Oct. 29.....	24.13	May 15.....	24.63	July 15.....	23.53
Apr. 15, 1985...	24.23	June 16.....	24.49	Aug. 17.....	22.84
May 16.....	24.32	July 14.....	23.71	Sept. 14.....	22.65
June 14.....	25.69	Aug. 15.....	23.46	Oct. 19.....	22.86
July 16.....	29.77	Sept. 15.....	24.07	Nov. 16.....	22.89
Aug. 16.....	29.88	Oct. 14.....	23.78	Dec. 15.....	23.17
Sept. 16.....	29.31	Nov. 18.....	23.85	Jan. 15, 1988...	22.95
Oct. 17.....	28.10	Dec. 15.....	23.86	Feb. 16.....	23.62
Nov. 18.....	26.94	Jan. 13, 1987...	23.83	Mar. 15.....	23.72
Dec. 17.....	26.81	Feb. 13.....	23.79	Apr. 15.....	23.64
Jan. 23, 1986...	26.09	Mar. 16.....	23.91	May 16.....	23.68
Feb. 17.....	26.12	Apr. 15.....	23.24	June 15.....	24.09
Mar. 18.....	25.44	May 15.....	23.45		
Period of record: Highest, 22.65, Sept. 14, 1987; lowest, 29.88, Aug. 16, 1985					
Township-range location number: 140-099-06DDDD				**Owner: USGS P-12**	
Depth of well: 23 feet		**Date drilled: 12-14-83**		**Altitude: 2,705 feet**	
Apr. 24, 1984...	17.14	Mar. 18.....	15.67	May 15.....	16.26
Oct. 29.....	17.78	Apr. 23.....	16.06	June 15.....	16.63
Nov. 13.....	17.75	May 15.....	16.19	July 15.....	16.91
Apr. 15, 1985...	17.80	June 16.....	16.37	Aug. 17.....	16.81
May 16.....	17.80	July 14.....	16.12	Sept. 14.....	16.85
June 14.....	18.94	Aug. 15.....	16.30	Oct. 19.....	16.94
July 15.....	18.14	Sept. 15.....	16.84	Nov. 16.....	17.20
Aug. 16.....	18.26	Oct. 14.....	16.95	Dec. 15.....	17.28
Sept. 16.....	18.37	Nov. 13.....	16.85	Jan. 15, 1988...	17.23
Oct. 17.....	18.47	Dec. 15.....	16.96	Feb. 16.....	17.46
Nov. 18.....	18.43	Jan. 13, 1987...	16.94	Mar. 15.....	17.17
Dec. 17.....	18.48	Feb. 13.....	16.15	Apr. 15.....	17.11
Jan. 23, 1986...	18.37	Mar. 16.....	16.39	May 16.....	17.26
Feb. 17.....	18.37	Apr. 15.....	16.03	June 15.....	17.63
Period of record: Highest, 15.67, Mar. 18, 1986; lowest, 18.94, June 14, 1985					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 140-099-07ABBB			**Owner: USGS P-14**		
Depth of well: 57 feet		**Date drilled: 12-14-83**		**Altitude: 2,725 feet**	
Aug. 14, 1984...	24.83	Apr. 23.....	26.10	June 15.....	25.74
Oct. 29.....	25.26	May 15.....	25.97	July 15.....	25.74
Apr. 16, 1985...	25.84	June 16.....	26.07	Aug. 17.....	26.01
May 17.....	26.11	July 14.....	25.62	Sept. 14.....	25.89
June 14.....	26.08	Aug. 15.....	24.91	Oct. 19.....	26.17
July 15.....	26.28	Sept. 15.....	25.41	Nov. 16.....	26.08
Aug. 16.....	26.26	Oct. 14.....	25.58	Dec. 15.....	26.32
Sept. 16.....	26.03	Nov. 13.....	25.29	Jan. 15, 1988...	25.85
Oct. 17.....	26.55	Dec. 15.....	25.85	Feb. 16.....	26.58
Nov. 18.....	26.59	Jan. 13, 1987...	25.79	Mar. 15.....	26.90
Dec. 17.....	26.01	Feb. 13.....	25.88	Apr. 15.....	26.88
Jan. 23, 1986...	26.53	Mar. 16.....	26.10	May 16.....	26.87
Feb. 17.....	26.67	Apr. 15.....	25.70	June 15.....	27.21
Mar. 18.....	26.62	May 15.....	25.71		
Period of record: Highest, 24.91, Aug. 15, 1986; lowest, 27.21, June 15, 1988					
Township-range location number: 140-099-07ABCA1			**Owner: USGS F-3A**		
Depth of well: 44 feet		**Date drilled: 05-16-84**		**Altitude: 2,739 feet**	
Aug. 14, 1984...	36.12	May 15.....	37.16	June 15.....	36.07
Oct. 29.....	36.45	June 16.....	37.06	July 15.....	35.90
Apr. 16, 1985...	36.54	July 14.....	36.94	Aug. 17.....	36.25
May 16.....	37.01	Aug. 15.....	36.48	Sept. 14.....	36.08
June 14.....	36.63	Sept. 15.....	36.72	Oct. 19.....	36.24
July 15.....	36.85	Oct. 14.....	36.64	Nov. 16.....	36.13
Aug. 16.....	36.84	Nov. 13.....	36.58	Dec. 15.....	36.27
Sept. 16.....	36.51	Dec. 15.....	36.47	Jan. 15, 1988...	35.70
Oct. 17.....	37.03	Jan. 13, 1987...	36.30	Feb. 16.....	36.38
Nov. 18.....	37.10	Feb. 13.....	36.25	Mar. 15.....	36.61
Jan. 23, 1986...	36.98	Mar. 16.....	36.33	Apr. 15.....	36.46
Mar. 18.....	37.35	Apr. 15.....	36.03	May 16.....	36.51
Apr. 23.....	37.10	May 15.....	36.20	June 15.....	36.75
Period of record: Highest, 35.70, Jan. 15, 1988; lowest, 37.35, Mar. 18, 1986					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 140-099-07ADDD			Owner: USGS F-7		
Depth of well: 50 feet		Date drilled: 05-22-84		Altitude: 2,720 feet	
Aug. 15, 1984...	26.64	May 15.....	27.75	June 15.....	26.78
Oct. 29.....	26.89	June 16.....	27.77	July 15.....	26.74
Apr. 16, 1985...	27.23	July 14.....	27.57	Aug. 17.....	26.59
May 16.....	27.45	Aug. 15.....	27.37	Sept. 14.....	26.60
June 14.....	27.43	Sept. 15.....	27.43	Oct. 19.....	26.73
July 15.....	27.53	Oct. 14.....	27.39	Nov. 16.....	26.72
Aug. 16.....	27.60	Nov. 13.....	27.12	Dec. 15.....	26.87
Sept. 16.....	27.55	Dec. 15.....	27.13	Jan. 15, 1988...	26.75
Oct. 17.....	27.83	Jan. 13, 1987...	27.01	Feb. 16.....	27.06
Nov. 18.....	27.88	Feb. 13.....	26.92	Mar. 15.....	27.20
Jan. 23, 1986...	27.95	Mar. 16.....	26.92	Apr. 15.....	27.19
Mar. 18.....	27.82	Apr. 15.....	26.78	May 16.....	27.21
Apr. 23.....	27.75	May 15.....	26.82	June 15.....	27.40
Period of record: Highest, 26.59, Aug. 17, 1987; lowest, 27.95, Jan. 23, 1986					
Township-range location number: 140-099-07BDAA			Owner: USGS F-8		
Depth of well: 23 feet		Date drilled: 05-16-84		Altitude: 2,705 feet	
Aug. 15, 1984...	15.18	May 15.....	14.02	July 15.....	13.80
Oct. 29.....	14.19	June 16.....	13.82	Aug. 17.....	13.85
Nov. 6.....	14.20	July 14.....	13.73	Sept. 14.....	13.81
Apr. 16, 1985...	14.33	Aug. 15.....	13.70	Oct. 19.....	13.90
May 16.....	14.45	Sept. 15.....	13.92	Nov. 16.....	13.87
June 14.....	14.40	Oct. 14.....	13.95	Dec. 15.....	13.93
July 15.....	14.38	Nov. 18.....	13.90	Jan. 15, 1988...	13.84
Aug. 16.....	14.48	Dec. 15.....	13.96	Feb. 16.....	14.00
Sept. 16.....	14.43	Jan. 13, 1987...	13.94	Mar. 15.....	14.06
Oct. 17.....	14.56	Feb. 13.....	13.82	Apr. 15.....	14.00
Nov. 18.....	14.57	Mar. 16.....	13.92	May 16.....	13.97
Jan. 23, 1986...	14.63	Apr. 15.....	13.74	June 15.....	14.09
Mar. 18.....	14.74	May 15.....	13.78		
Apr. 23.....	14.31	June 15.....	13.77		
Period of record: Highest, 13.70, Aug. 15, 1986; lowest, 15.18, Aug. 15, 1984					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 140-099-07CDCD		**Owner: USGS F-2**			
Depth of well: 35 feet		**Date drilled: 05-16-84**		**Altitude: 2,703 feet**	
Oct. 29, 1984...	31.84	June 16.....	29.07	July 15.....	28.93
Apr. 16, 1985...	28.16	July 14.....	28.91	Aug. 17.....	28.70
May 16.....	28.27	Aug. 15.....	29.07	Sept. 14.....	28.73
June 14.....	28.28	Sept. 15.....	29.08	Oct. 19.....	28.86
July 15.....	28.48	Oct. 14.....	28.93	Nov. 16.....	28.91
Aug. 16.....	28.45	Nov. 13.....	29.09	Dec. 15.....	28.96
Sept. 16.....	28.45	Dec. 15.....	29.22	Jan. 15, 1988...	28.95
Oct. 17.....	28.53	Jan. 13, 1987...	29.24	Feb. 16.....	29.00
Nov. 18.....	28.65	Feb. 13.....	29.29	Mar. 15.....	29.02
Jan. 23, 1986...	28.92	Mar. 16.....	29.34	Apr. 15.....	28.99
Mar. 18.....	29.08	Apr. 15.....	29.25	May 16.....	28.82
Apr. 23.....	29.08	May 15.....	29.27	June 15.....	28.79
May 15.....	28.98	June 15.....	29.16		
Period of record: Highest, 28.16, Apr. 16, 1985; lowest, 31.84, Oct. 29, 1984					
Township-range location number: 140-099-07DDDD1		**Owner: USGS F-1**			
Depth of well: 45 feet		**Date drilled: 05-16-84**		**Altitude: 2,694 feet**	
Aug. 14, 1984...	33.03	May 15.....	33.84	June 15.....	33.26
Oct. 29.....	33.24	June 16.....	33.88	July 15.....	33.17
Apr. 16, 1985...	33.47	July 14.....	33.83	Aug. 17.....	33.34
May 16.....	33.73	Aug. 15.....	33.57	Sept. 14.....	33.24
June 14.....	33.64	Sept. 15.....	33.74	Oct. 19.....	33.32
July 15.....	33.69	Oct. 14.....	33.59	Nov. 16.....	33.25
Aug. 16.....	33.66	Nov. 18.....	33.41	Dec. 15.....	33.35
Sept. 16.....	33.47	Dec. 15.....	33.34	Jan. 15, 1988...	33.05
Oct. 17.....	33.73	Jan. 13, 1987...	33.23	Feb. 16.....	33.51
Nov. 18.....	33.70	Feb. 13.....	33.25	Mar. 15.....	33.64
Jan. 23, 1986...	33.61	Mar. 16.....	33.32	Apr. 15.....	33.59
Mar. 18.....	33.87	Apr. 15.....	33.14	May 16.....	33.54
Apr. 23.....	33.86	May 15.....	33.28	June 15.....	33.73
Period of record: Highest, 33.03, Aug. 14, 1984; lowest, 33.88, June 16, 1986					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 140-099-07DDDD2			Owner: USGS F-1A		
Depth of well: 20 feet		Date drilled: 05-16-84		Altitude: 2,694 feet	
Aug. 9, 1984...	14.28	May 15.....	14.79	June 15.....	14.38
Oct. 29.....	14.46	June 16.....	14.68	July 15.....	14.26
Apr. 16, 1985...	14.73	July 14.....	14.46	Aug. 17.....	14.23
May 16.....	14.77	Aug. 15.....	14.19	Sept. 14.....	14.14
June 14.....	14.74	Sept. 15.....	14.29	Oct. 19.....	14.24
July 15.....	14.72	Oct. 14.....	14.14	Nov. 16.....	14.27
Aug. 16.....	14.65	Nov. 18.....	14.19	Dec. 15.....	14.36
Sept. 16.....	14.58	Dec. 15.....	14.23	Jan. 15, 1988...	14.35
Oct. 17.....	14.63	Jan. 13, 1987...	14.13	Feb. 16.....	14.49
Nov. 18.....	14.68	Feb. 13.....	14.22	Mar. 15.....	14.59
Jan. 23, 1986...	14.76	Mar. 16.....	14.34	Apr. 15.....	14.62
Mar. 18.....	14.83	Apr. 15.....	14.33	May 16.....	14.60
Apr. 23.....	14.77	May 15.....	14.43	June 15.....	14.64
Period of record: Highest, 14.13, Jan. 13, 1987; lowest, 14.83, Mar. 18, 1986					
Township-range location number: 140-100-10BABC4			Owner: USGS T-7A		
Depth of well: 37 feet		Date drilled: 04-17-84		Altitude: 2,758 feet	
Apr. 25, 1984...	25.50	Apr. 23.....	24.20	Apr. 15.....	24.42
Oct. 30.....	26.20	May 15.....	24.67	May 15.....	24.82
Apr. 16, 1985...	26.82	June 16.....	25.19	June 15.....	24.92
May 16.....	26.99	July 14.....	24.49	July 15.....	24.82
June 13.....	26.63	Aug. 14.....	25.02	Aug. 17.....	24.47
July 15.....	27.01	Sept. 15.....	25.42	Sept. 14.....	24.33
Aug. 16.....	27.11	Oct. 14.....	24.89	Oct. 19.....	24.87
Sept. 16.....	27.08	Nov. 18.....	25.05	Nov. 16.....	24.99
Oct. 17.....	26.58	Dec. 15.....	25.10	Dec. 15.....	25.17
Nov. 19.....	26.92	Jan. 13, 1987...	25.11	Mar. 15, 1988...	25.37
Jan. 24, 1986...	27.35	Feb. 13.....	25.16	June 14.....	26.02
Mar. 19.....	24.89	Mar. 16.....	25.22		
Period of record: Highest, 24.20, Apr. 23, 1986; lowest, 27.35, Jan. 24, 1986					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 140-100-10BACA			Owner: USGS T-3		
Depth of well: 37 feet		Date drilled: 04-17-84		Altitude: 2,732 feet	
Apr. 17, 1984...	10.67	Apr. 23.....	8.88	Apr. 15.....	6.30
Oct. 30.....	9.81	May 15.....	7.89	May 15.....	6.14
Apr. 16, 1985...	11.24	June 16.....	7.19	June 15.....	6.26
May 16.....	11.28	July 14.....	6.45	July 15.....	6.54
June 13.....	11.23	Aug. 14.....	6.03	Aug. 17.....	6.67
July 15.....	11.20	Sept. 15.....	5.95	Sept. 14.....	6.59
Aug. 16.....	11.03	Oct. 14.....	5.58	Oct. 19.....	6.69
Sept. 16.....	10.78	Nov. 18.....	5.14	Nov. 16.....	6.99
Oct. 17.....	10.36	Dec. 15.....	5.14	Dec. 15.....	7.41
Nov. 19.....	9.95	Jan. 13, 1987...	5.35	Mar. 15, 1988...	8.84
Jan. 24, 1986...	9.92	Feb. 13.....	5.74	June 14.....	9.12
Mar. 19.....	9.97	Mar. 16.....	6.12		
Period of record: Highest, 5.14, Nov. 18, 1986, and Dec. 15, 1986; lowest, 11.28, May 16, 1985					
Township-range location number: 140-100-10BACB3			Owner: USGS T-8		
Depth of well: 25 feet		Date drilled: 04-18-84		Altitude: 2,738 feet	
Oct. 30, 1984...	7.75	May 15.....	2.56	May 15.....	3.80
Apr. 16, 1985...	8.75	June 16.....	3.83	June 15.....	5.26
May 16.....	7.37	July 14.....	3.10	July 15.....	5.79
June 13.....	6.82	Aug. 14.....	3.65	Aug. 17.....	6.01
July 15.....	7.05	Sept. 15.....	6.74	Sept. 14.....	6.09
Aug. 16.....	8.83	Oct. 14.....	3.96	Oct. 19.....	7.28
Sept. 16.....	9.33	Nov. 18.....	4.64	Nov. 16.....	7.53
Oct. 17.....	8.66	Dec. 15.....	4.15	Dec. 15.....	7.78
Nov. 19.....	8.26	Jan. 13, 1987...	4.25	Mar. 15, 1988...	8.34
Jan. 24, 1986...	9.17	Feb. 13.....	5.48	June 14.....	8.51
Mar. 19.....	2.38	Mar. 16.....	5.17		
Apr. 23.....	2.52	Apr. 15.....	2.76		
Period of record: Highest, 2.38, Mar. 19, 1986; lowest, 9.33, Sept. 16, 1985					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 140-100-10BACC			**Owner: USGS T-4**		
Depth of well: 33 feet		**Date drilled: 04-17-84**		**Altitude: 2,746 feet**	
Oct. 30, 1984...	17.33	May 15.....	17.79	May 15.....	15.57
Apr. 16, 1985...	18.12	June 16.....	17.46	June 15.....	15.58
May 16.....	18.33	July 14.....	17.01	July 15.....	15.63
June 13.....	18.51	Aug. 14.....	16.88	Aug. 17.....	15.69
July 15.....	18.81	Sept. 15.....	16.57	Sept. 14.....	15.75
Aug. 16.....	18.76	Oct. 14.....	16.16	Oct. 19.....	15.85
Sept. 16.....	18.72	Nov. 18.....	15.76	Nov. 16.....	15.88
Oct. 17.....	18.54	Dec. 15.....	15.59	Dec. 15.....	15.99
Nov. 19.....	18.46	Jan. 13, 1987...	15.47	Mar. 15, 1988...	16.54
Jan. 24, 1986...	18.22	Feb. 13.....	15.52	June 14.....	16.40
Mar. 19.....	18.30	Mar. 16.....	15.68		
Apr. 23.....	18.14	Apr. 15.....	15.69		
Period of record: Highest, 15.47, Jan. 13, 1987; lowest, 18.81, July 15, 1985					
Township-range location number: 140-100-10BACD			**Owner: USGS T-2**		
Depth of well: 30 feet		**Date drilled: 04-17-84**		**Altitude: 2,760 feet**	
Apr. 17, 1984...	28.69	Apr. 23.....	28.04	Apr. 15.....	28.73
Oct. 30.....	29.77	May 15.....	28.04	May 15.....	28.65
Apr. 16, 1985...	28.66	June 16.....	28.70	June 15.....	28.83
May 16.....	28.20	July 14.....	27.23	July 15.....	28.31
June 13.....	28.43	Aug. 14.....	28.79	Aug. 17.....	27.70
July 15.....	29.05	Sept. 15.....	29.19	Sept. 14.....	28.70
Aug. 16.....	28.59	Oct. 14.....	28.23	Oct. 19.....	29.46
Sept. 16.....	28.30	Nov. 18.....	28.71	Nov. 16.....	29.99
Oct. 17.....	28.10	Dec. 15.....	28.74	Dec. 15.....	Dry
Nov. 19.....	28.86	Jan. 13, 1987...	29.32	Mar. 15, 1988...	Dry
Jan. 24, 1986...	Dry	Feb. 13.....	29.65	June 14.....	29.87
Mar. 19.....	27.89	Mar. 16.....	29.65		
Period of record: Highest, 27.23, July 14, 1986; lowest, 29.99, Nov. 16, 1987					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 140-100-10BBAD				Owner: USGS T-10	
Depth of well: 44 feet		Date drilled: 04-18-84		Altitude: 2,745 feet	
Apr. 25, 1984...	13.71	Apr. 23.....	14.79	Apr. 15.....	11.33
Oct. 30.....	14.39	May 15.....	14.81	May 15.....	11.30
Apr. 16, 1985...	14.85	June 16.....	14.79	June 15.....	11.84
May 16.....	14.98	July 14.....	13.83	July 15.....	11.64
June 13.....	15.12	Aug. 14.....	12.87	Aug. 17.....	11.82
July 15.....	15.44	Sept. 15.....	12.97	Sept. 14.....	12.02
Aug. 16.....	15.59	Oct. 14.....	12.99	Oct. 19.....	12.24
Sept. 16.....	15.74	Nov. 18.....	12.69	Nov. 16.....	12.30
Oct. 17.....	15.88	Dec. 15.....	12.60	Dec. 15.....	12.41
Nov. 19.....	16.03	Jan. 13, 1987...	12.41	Mar. 15, 1988...	12.69
Jan. 24, 1986...	16.24	Feb. 13.....	11.95	June 14.....	13.23
Mar. 19.....	14.12	Mar. 16.....	11.83		
Period of record: Highest, 11.30, May 15, 1987; lowest, 16.24, Jan. 24, 1986					
Township-range location number: 141-099-33DDDA				Owner: USGS P-16	
Depth of well: 65 feet		Date drilled: 12-15-83		Altitude: 2,725 feet	
Apr. 24, 1984...	23.81	Apr. 23.....	25.67	June 15.....	23.53
Oct. 29.....	24.29	May 15.....	25.79	July 15.....	23.27
Apr. 15, 1985...	24.92	June 16.....	25.90	Aug. 17.....	23.29
May 17.....	25.07	July 14.....	25.74	Sept. 14.....	22.71
June 14.....	25.09	Aug. 15.....	25.05	Oct. 19.....	22.19
July 16.....	24.20	Sept. 15.....	24.92	Nov. 16.....	21.93
Aug. 16.....	25.20	Oct. 14.....	24.62	Dec. 15.....	21.99
Sept. 16.....	25.09	Nov. 13.....	23.98	Jan. 15, 1988...	21.60
Oct. 17.....	25.52	Dec. 15.....	24.02	Feb. 16.....	22.31
Nov. 18.....	25.51	Jan. 13, 1987...	23.71	Mar. 15.....	22.83
Dec. 17.....	25.83	Feb. 13.....	23.56	Apr. 15.....	22.91
Jan. 23, 1986...	25.47	Mar. 16.....	23.62	May 16.....	23.07
Feb. 17.....	25.55	Apr. 15.....	23.38	June 15.....	23.42
Mar. 18.....	25.75	May 15.....	23.59		
Period of record: Highest, 21.60, Jan. 15, 1988; lowest, 25.90, June 16, 1986					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 142-099-23CDCA		**Owner: USGS K-2**			
Depth of well: 20 feet		**Date drilled: 04-18-84**		**Altitude: 2,681 feet**	
June 5, 1984...	15.10	Mar. 18.....	14.34	Mar. 16.....	14.73
Oct. 29.....	17.20	Apr. 23.....	14.04	Apr. 15.....	14.23
Apr. 15, 1985...	16.57	May 15.....	14.27	May 15.....	15.01
May 17.....	17.19	June 16.....	14.92	June 15.....	15.73
June 14.....	17.75	July 19.....	15.42	July 15.....	16.36
July 16.....	18.22	Aug. 15.....	15.98	Aug. 17.....	15.47
Aug. 16.....	Dry	Sept. 15.....	16.45	Sept. 14.....	15.92
Sept. 16.....	Dry	Oct. 14.....	15.71	Oct. 19.....	16.10
Oct. 17.....	Dry	Nov. 17.....	15.31	Nov. 16.....	16.26
Nov. 18.....	Dry	Dec. 15.....	15.33	Dec. 15.....	16.48
Jan. 22, 1986...	Dry	Jan. 13, 1987...	15.42	Mar. 15, 1988...	16.05
Feb. 17.....	Dry	Feb. 13.....	14.49	June 15.....	17.53
Period of record: Highest, 14.04, Apr. 23, 1986; lowest, 18.22, July 16, 1985					
Township-range location number: 142-099-26BACC1		**Owner: USGS K-4**			
Depth of well: 46 feet		**Date drilled: 04-18-84**		**Altitude: 2,691 feet**	
June 5, 1984...	42.78	May 15.....	43.57	May 15.....	42.65
May 17, 1985...	42.64	June 16.....	43.71	June 15.....	42.56
June 14.....	42.65	July 14.....	43.65	July 15.....	42.44
July 16.....	42.79	Aug. 15.....	43.31	Aug. 17.....	42.51
Aug. 16.....	42.84	Sept. 15.....	43.39	Sept. 14.....	42.44
Sept. 16.....	42.75	Oct. 14.....	43.29	Oct. 19.....	42.36
Oct. 17.....	43.01	Nov. 17.....	43.12	Nov. 16.....	42.27
Nov. 18.....	43.07	Dec. 15.....	43.11	Dec. 15.....	42.22
Jan. 22, 1986...	43.31	Jan. 13, 1987...	42.96	Mar. 15, 1988...	42.15
Feb. 17.....	43.74	Feb. 13.....	42.85	June 15.....	42.23
Mar. 18.....	43.42	Mar. 16.....	42.81		
Apr. 23.....	43.40	Apr. 15.....	42.62		
Period of record: Highest, 42.15, Mar. 15, 1988; lowest, 43.74, Feb. 17, 1986					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 142-099-26BACC2		Owner: USGS K-5A			
Depth of well: 54 feet		Date drilled: 04-23-84		Altitude: 2,691 feet	
June 5, 1984...	43.81	May 15.....	45.97	May 15.....	45.53
May 17, 1985...	44.78	June 16.....	46.27	June 15.....	45.52
June 14.....	44.70	July 14.....	46.15	July 15.....	45.32
July 16.....	44.83	Aug. 15.....	45.80	Aug. 17.....	45.50
Aug. 16.....	44.61	Sept. 15.....	46.17	Sept. 14.....	45.43
Sept. 16.....	44.79	Oct. 14.....	46.09	Oct. 19.....	45.68
Oct. 17.....	45.16	Nov. 17.....	45.77	Nov. 16.....	45.57
Nov. 18.....	45.32	Dec. 15.....	45.93	Dec. 15.....	45.22
Jan. 22, 1986...	45.64	Jan. 13, 1987...	45.70	Mar. 15, 1988...	45.70
Feb. 17.....	45.26	Feb. 13.....	45.11	June 15.....	45.68
Mar. 18.....	45.74	Mar. 16.....	45.65		
Apr. 23.....	45.68	Apr. 15.....	45.39		
Period of record: Highest, 43.81, June 5, 1984; lowest, 46.27, June 16, 1986					
Township-range location number: 142-099-26BADA		Owner: USGS K-6			
Depth of well: 38 feet		Date drilled: 04-23-84		Altitude: 2,689 feet	
June 5, 1984...	34.23	Mar. 18.....	34.78	Mar. 16.....	34.24
Oct. 29.....	34.27	Apr. 23.....	34.68	Apr. 15.....	34.20
Apr. 15, 1985...	34.50	May 15.....	34.68	May 15.....	34.21
May 17.....	34.50	June 16.....	33.75	June 15.....	34.25
June 14.....	34.50	July 14.....	34.63	July 15.....	34.29
July 16.....	34.58	Aug. 15.....	34.58	Aug. 17.....	34.29
Aug. 16.....	34.68	Sept. 15.....	34.59	Sept. 14.....	34.24
Sept. 16.....	34.57	Oct. 14.....	34.49	Oct. 19.....	34.25
Oct. 17.....	34.72	Nov. 17.....	34.39	Nov. 16.....	34.24
Nov. 18.....	34.72	Dec. 15.....	34.35	Dec. 15.....	34.28
Jan. 22, 1986...	34.80	Jan. 13, 1987...	34.30	Mar. 15, 1988...	34.40
Feb. 17.....	34.76	Feb. 13.....	33.64	June 15.....	34.49
Period of record: Highest, 33.64, Feb. 13, 1987; lowest, 34.80, Jan. 22, 1986					

Table 2.--Water levels in selected wells--Continued

Date water level measured	Water level	Date water level measured	Water level	Date water level measured	Water level
Township-range location number: 142-099-26BBAA1				Owner: USGS K-7A	
Depth of well: 55 feet		Date drilled: 04-24-84		Altitude: 2,718 feet	
June 5, 1984...	49.40	Apr. 23.....	53.04	Apr. 15.....	52.40
Aug. 29.....	51.97	May 15.....	52.72	May 15.....	52.40
Apr. 15, 1985...	52.46	June 16.....	52.53	June 15.....	52.34
May 17.....	52.52	July 14.....	52.44	July 15.....	52.28
June 14.....	52.56	Aug. 15.....	52.37	Aug. 17.....	52.29
July 16.....	52.67	Sept. 15.....	52.47	Sept. 14.....	52.24
Aug. 16.....	52.27	Oct. 14.....	52.50	Oct. 19.....	52.20
Sept. 16.....	52.71	Nov. 17.....	52.45	Nov. 16.....	52.12
Oct. 17.....	52.97	Dec. 15.....	52.55	Dec. 15.....	52.06
Nov. 18.....	53.01	Jan. 13, 1987...	52.51	Mar. 15, 1988...	51.97
Jan. 22, 1986...	53.18	Feb. 13.....	52.47	June 15.....	52.11
Mar. 18.....	53.25	Mar. 16.....	52.33		
Period of record: Highest, 49.40, June 5, 1984; lowest, 53.25, Mar. 18, 1986					

Table 3.--Logs of selected wells and test holes

[Depths shown are depths drilled, in feet below land surface; altitude is for land-surface datum]

136-100-05ABCC
USGS FZ-7
(Log modified from Verplancke Drilling Company)

Date drilled: 05-25-84 Altitude: 2,892 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	2	2
Sand, gray, silty; water	9	11
Clay, gray, silty	4	15
Lignite	2	17
Clay, blue	2	19

136-100-05ACAA
USGS FZ-4
(Log modified from Verplancke Drilling Company)

Date drilled: 05-24-84 Altitude: 2,907 feet

Topsoil	1	1
Sand, oxidized	12	13
Sand, gray, silty	2	15
Sand, oxidized; some "yellow cake"	2	17
Lignite; some "yellow cake"	2	19
Sand, gray, silty, damp	7	26
Sand, blue, silty, damp	4	30
Clay, carbonaceous, damp	3	33
Lignite, hard, dry	2	35
Sand, blue, silty	9	44
Clay, blue	1	45
Lignite	2	47
Clay, gray, silty	3	50

Table 3.--Logs of selected wells and test holes--Continued

136-100-05ACBC
USGS FZ-1
(Log modified from Verplancke Drilling Company)

Date drilled: 05-25-84 Altitude: 2,906 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Sand, tan, silty	7	8
Sand, gray, silty, damp	3	11
Sand, oxidized, silty	2	13
Lignite; water	1	14
Clay, blue	2	16

136-100-05ACDB1
USGS FZ-6
(Log modified from Verplancke Drilling Company)

Date drilled: 05-31-84 Altitude: 2,936 feet

Sand, tan and gray, silty, damp	33	33
Sand, gray, silty, damp	17	50
Sand, blue, silty, damp	10	60
Lignite, damp	1	61
Clay, blue, very silty, damp	9	70
Clay, gray, silty, damp	6	76
Clay, carbonaceous, silty, damp	2	78
Lignite, dry	3	81
Clay, blue, silty	12	93
Lignite	2	95
Clay, gray, silty; water	17	112
Clay, blue	28	140

Table 3.--Logs of selected wells and test holes--Continued

136-100-05ACDD1
USGS FZ-5A
(Log modified from Verplancke Drilling Company)

Date drilled: 06-01-84 Altitude: 2,891 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil, sandy	2	2
Clay, tan, silty	6	8
Sand, gray, silty, damp	6	14
Clay, tan, silty, dry	4	18
Lignite, dry	2	20
Clay, carbonaceous, silty, damp	1	21
Lignite, dry	1	22
Sand, blue, silty, wet	10	32
Clay, blue, silty	2	34

136-100-05BDAD
USGS FZ-2
(Log modified from Verplancke Drilling Company)

Date drilled: 05-24-84 Altitude: 2,920 feet

Topsoil	2	2
Sand, gray, silty, damp	22	24
Sand, blue, silty, damp	15	39
Clay, carbonaceous	3	42
Clay, blue, silty	3	45

136-100-05CAAA
USGS FZ-3
(Log modified from Verplancke Drilling Company)

Date drilled: 05-24-84 Altitude: 2,901 feet

Topsoil	1	1
Sand, gray	5	6
Sand, gray, silty, wet	5	11
Sand, blue, silty, wet	5	16
Clay, gray, silty, damp	1	17
Clay, tan, silty, damp	1	18
Sand, gray, silty, damp	4	22
Sand, blue, damp	8	30
Lignite	2	32
Clay, blue	2	34

Table 3.--Logs of selected wells and test holes--Continued

136-100-05DACA
USGS FZ-8
(Log modified from Verplancke Drilling Company)

Date drilled: 05-25-84 Altitude: 2,883 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, tan, silty	6	6
Clay, oxidized	1	7
Clay, tan, silty	2	9
Clay, blue	1	10
Clay, tan, silty	1	11
Clay, oxidized, hard, dry	4	15
Clay, gray	1	16
Lignite, dry	2	18
Clay, blue, silty	2	20
Silt, carbonaceous	1	21
Sand, blue, silty, damp	10	31
Clay, gray, damp	1	32
Clay, carbonaceous, damp	2	34
Lignite, hard, dry	3	37
Clay, blue	1	38

137-100-05CBAC1
USGS S2-2A
(Log modified from Verplancke Drilling Company)

Date drilled: 06-04-84 Altitude: 2,902 feet

Sand, tan, silty	8	8
Clay, yellow, oxidized	1	9
Lignite, soft, dry; some "yellow cake"	6	15
Clay, light-tan	1	16
Clay, dark-gray, damp	1	17
Clay, blue, damp	3	20

Table 3.--Logs of selected wells and test holes--Continued

137-100-05CBCA1
USGS S2-1A
(Log modified from Verplancke Drilling Company)

Date drilled: 06-04-84 Altitude: 2,904 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil, sandy	2	2
Sand, tan, silty, damp	8	10
Lignite, soft; some "yellow cake"	4	14
Clay, brown, silty	1	15
Lignite	3	18
Clay, blue	1	19
Clay, brown, sandy	1	20

137-100-05CBDA
USGS S2-3
(Log modified from Verplancke Drilling Company)

Date drilled: 06-04-84 Altitude: 2,898 feet

Topsoil, silty	2	2
Sand, oxidized, silty	10	12
Clay, brown, sandy; water	2	14
Clay, blue	6	20

137-100-05DACB1
USGS S1-3A
(Log modified from Verplancke Drilling Company)

Date drilled: 05-23-84 Altitude: 2,938 feet

Sand, tan, silty, damp	14	14
Lignite; water	2	16
Clay, blue	4	20

Table 3.--Logs of selected wells and test holes--Continued

137-100-05DBCA
USGS S1-6
(Log modified from Verplancke Drilling Company)

Date drilled: 05-23-84 Altitude: 2,945 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil, sandy	2	2
Sand, tan, silty, damp	8	10
Sand, gray, silty, damp	9	19
Clay, brown, silty, damp	1	20
Lignite, soft, dry	1	21
Clay, blue, dry	1	22

137-100-05DBDA1
USGS S1-4
(Log modified from Verplancke Drilling Company)

Date drilled: 05-23-84 Altitude: 2,943 feet

Topsoil	1	1
Sand, tan, silty	5	6
Sand, tan, very silty, damp	6	12
Clay, oxidized, damp	1	13
Sand, gray, silty; water	5	18
Lignite	1	19
Clay, blue	1	20

137-100-05DBDA2
USGS S1-5A
(Log modified from Verplancke Drilling Company)

Date drilled: 05-24-84 Altitude: 2,960 feet

Sand and gray silty clay; with lignite and rocks; damp	10	10
Sand, tan, silty, damp	5	15
Sand, brown and tan, silty	6	21
Topsoil	2	23
Sand, tan, silty	1	24
Shale, red	1	25
Sand, tan, silty, very damp	14	39
Sand, carbonaceous, silty, damp	1	40
Clay, dark-gray, silty, damp	3	43
Clay, tan and gray, silty, damp	2	45
Clay, blue, damp	1	46

Table 3.--Logs of selected wells and test holes--Continued

137-100-05DBDD1
USGS S1-1
(Log modified from Verplancke Drilling Company)

Date drilled: 05-23-84 Altitude: 2,951 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Sand, tan, oxidized, silty, damp	19	20
Sand, gray, silty; water	9	29
Clay, carbonaceous, sandy; water	4	33
Lignite, hard	2	35
Clay, blue	3	38

137-100-05DBDD2
USGS S1-2
(Log modified from Verplancke Drilling Company)

Date drilled: 05-23-84 Altitude: 2,942 feet

Topsoil	1	1
Sand, brown, silty	6	7
Sand, gray, silty, damp	7	14
Sand, oxidized, silty, damp	1	15
Sand, gray, silty; water	3	18
Lignite	2	20
Clay, blue	1	21

140-099-06AAAA
USGS P-18
(Log modified from Verplancke Drilling Company)

Date drilled: 12-15-83 Altitude: 2,703 feet

Topsoil	1	1
Sand, brown, silty, dry	6	7
Sand, tan, silty, wet	11	18
Clay, blue, silty, damp	12	30

Table 3.--Logs of selected wells and test holes--Continued

140-099-06ACCD1
USGS P-1
(Log modified from Verplancke Drilling Company)

Date drilled: 12-09-83 Altitude: 2,700 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Sand, brown, silty	8	9
Sandstone	1	10
Sand, brown, wet	8	18
Sand, light-blue; water	7	25
Lignite	3	28
Clay, blue, silty	25	53
Shale	1	54
Clay, blue	22	76
Sand, blue, silty	6	82
Clay, blue, silty	11	93
Lignite	7	100
Clay	1	101
Lignite	1	102
Clay, blue	6	108
Shale	1	109
Clay, blue	7	116
Lignite	3	119
Clay, blue	24	143
Lignite	1	144
Clay, blue, sandy	1	145
Lignite	1	146
Clay, blue, silty	20	166
Lignite	1	167
Clay	1	168
Lignite, loose, broken	8	176
Sand, blue; water	25	201
Sand, blue, soft	21	222
Sand, blue, firm	3	225
Sandstone	2	227
Sand, blue	11	238
Sandstone, hard	1	239
Sand, blue	1	240

Table 3.--Logs of selected wells and test holes--Continued

140-099-06ACCD3
USGS P-2
(Log modified from Verplancke Drilling Company)

Date drilled: 12-13-83 Altitude: 2,700 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Sand, dark-brown, silty	5	6
Sand, brown, dry	4	10
Sand, brown, damp	9	19
Sand, blue-green, very wet	7	26
Lignite; water	3	29
Clay, blue	1	30

140-099-06ACCD4
USGS P-31
(Log modified from Verplancke Drilling Company)

Date drilled: 06-06-86 Altitude: 2,704 feet

Sand, brown	10	10
Sand, tan	11	21
Sand, tan, silty, clayey, wet	4	25
Lignite	1	26
Clay, blue	1	27

140-099-06ACCD12
USGS P-32
(Log modified from Verplancke Drilling Company)

Date drilled: 06-05-86 Altitude: 2,706 feet

Sand, oxidized to tan	10	10
Sand, brown	10	20
Sand, blue	8	28
Lignite	2	30
Clay, blue	1	31

Table 3.--Logs of selected wells and test holes--Continued

140-099-06ACCD13
USGS P-33
(Log modified from Verplancke Drilling Company)

Date drilled: 06-05-86 Altitude: 2,710 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, tan	15	15
Sand, brown	10	25
Shale	2	27
Sand, blue	7	34
Lignite	1	35
Clay, blue	1	36

140-099-06ACDD
USGS P-24
(Log modified from Verplancke Drilling Company)

Date drilled: 06-06-86 Altitude: 2,710 feet

Sand, tan	17	17
Shale	1	18
Sand, tan	4	22
Sand, gray	7	29
Clay, gray	1	30
Lignite	1	31
Clay, blue	1	32

140-099-06ADCC
USGS P-23
(Log modified from Verplancke Drilling Company)

Date drilled: 06-06-86 Altitude: 2,711 feet

Sand, tan	15	15
Shale, white, hard	2	17
Sand, brown	9	26
Clay, carbonaceous	1	27
Lignite	1	28
Clay, blue	1	29

Table 3.--Logs of selected wells and test holes--Continued

140-099-06BACD
USGS P-36
(Log modified from Verplancke Drilling Company)

Date drilled: 06-06-86 Altitude: 2,719 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, tan	10	10
Sand, gray	9	19
Sand, brown	16	35
Lignite, oxidized	1	36
Lignite	1	37
Clay, blue	1	38

140-099-06BCAD
USGS P-10
(Log modified from Verplancke Drilling Company)

Date drilled: 12-14-83 Altitude: 2,696 feet

Topsoil	1	1
Sand, brown, silty, dry	5	6
Sand, gray, silty, damp	6	12
Sand, blue, silty, damp	1	13
Sand, gray, silty, damp	2	15
Clay, brown, silty; water	2	17
Lignite; water	2	19
Clay, blue	1	20

140-099-06BCBC
USGS P-8
(Log modified from Verplancke Drilling Company)

Date drilled: 12-14-83 Altitude: 2,704 feet

Topsoil	1	1
Sand, brown, silty, dry	6	7
Sand, tan, silty, damp	7	14
Sand, blue, damp	1	15
Lignite, oxidized; water	1	16
Clay, brown, sandy	2	18

Table 3.--Logs of selected wells and test holes--Continued

140-099-06BCCC
USGS P-9
(Log modified from Verplancke Drilling Company)

Date drilled: 12-14-83 Altitude: 2,705 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Sand, light-brown, silty	4	5
Sandstone, soft, dry	2	7
Sand, gray, silty, damp	6	13
Lignite, oxidized, damp	2	15
Clay, brown, silty, damp	3	18

140-099-06BDAB
USGS P-17
(Log modified from Verplancke Drilling Company)

Date drilled: 12-15-83 Altitude: 2,708 feet

Topsoil	1	1
Sand, tan, silty, dry	6	7
Sand, tan, silty, damp	8	15
Sand, reddish-brown, silty, damp	5	20
Sandstone, dry	2	22
Sand, brown, silty, damp	10	32
Sand, tan, silty; water	3	35
Lignite; water	2	37
Clay, blue, silty	3	40

140-099-06BDBA1
USGS P-37
(Log modified from Verplancke Drilling Company)

Date drilled: 06-06-86 Altitude: 2,715 feet

Sand, gray; with lignite chips	2	2
Sand, tan	31	33
Lignite	1	34
Clay, blue	1	35

Table 3.--Logs of selected wells and test holes--Continued

140-099-06BDBA2
USGS P-38
(Log modified from Verplancke Drilling Company)

Date drilled: 06-06-86 Altitude: 2,711 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Silt, tan	6	6
Sand, tan	24	30
Lignite	3	33
Clay, blue	1	34

140-099-06BDBB1
USGS P-22A
(Log modified from Verplancke Drilling Company)

Date drilled: 05-17-84 Altitude: 2,712 feet

Sand, gray, silty	9	9
Sand, tan, silty; water	15	24
Lignite	1	25
Clay, blue	3	28

140-099-06BDCA1
USGS P-11
(Log modified from Verplancke Drilling Company)

Date drilled: 12-14-83 Altitude: 2,694 feet

Topsoil	1	1
Sand, gray, silty, dry	5	6
Sand, gray, silty, damp	9	15
Sand, blue, silty; water	5	20
Lignite; water	2	22
Clay, blue, sandy	2	24

Table 3.--Logs of selected wells and test holes--Continued

140-099-06CAAB
USGS P-5
(Log modified from Verplancke Drilling Company)

Date drilled: 12-13-83 Altitude: 2,705 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Clay, brown, silty	2	3
Sand, brown	3	6
Sand, gray, damp	4	10
Sandstone, blue, hard, dry	1	11
Sandstone, brown, soft	3	14
Sandstone, blue, hard	1	15
Sand, brown, wet	6	21
Clay, blue, sandy, wet	4	25
Lignite; water	1	26
Clay, blue, sandy, wet	1	27
Clay, blue, silty	3	30

140-099-06CABC1
USGS P-21A
(Log modified from Verplancke Drilling Company)

Date drilled: 05-17-84 Altitude: 2,693 feet

Sand, oxidized	5	5
Clay, gray, silty, dry	2	7
Clay, carbonaceous	1	8
Clay, gray, silty, damp	4	12

Table 3.--Logs of selected wells and test holes--Continued

140-099-06CABD
USGS P-6
(Log modified from Verplancke Drilling Company)

Date drilled: 12-13-83 Altitude: 2,712 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Sand, brown, dry	9	10
Sand, blue-gray, damp	4	14
Sandstone, blue, dry	1	15
Sand, gray-brown, silty, damp	5	20
Sandstone, blue, dry	1	21
Clay, brown, silty, wet	6	27
Clay, sandy, soft; water	2	29
Lignite, oxidized, soft; water	1	30
Clay, blue, silty	2	32

140-099-06CBBD2
USGS P-20B
(Log modified from Verplancke Drilling Company)

Date drilled: 05-18-84 Altitude: 2,721 feet

Sand, tan, silty	8	8
Sand, gray, silty	19	27
Sand, oxidized	8	35

140-099-06CCCC
USGS F-6
(Log modified from Verplancke Drilling Company)

Date drilled: 05-16-84 Altitude: 2,670 feet

Clay, gray, sticky	1	1
Clay, gray	7	8
Clay, tan, silty	2	10
Clay, gray, silty	1	11
Lignite, oxidized, wet	2	13
Clay, blue	2	15

Table 3.--Logs of selected wells and test holes--Continued

140-099-06CCD1
USGS F-5A
(Log modified from Verplancke Drilling Company)

Date drilled: 05-17-84 Altitude: 2,721 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	2	2
Sand, oxidized	8	10
Sandstone, tan	2	12
Sand, tan, silty, damp	5	17
Sand, carbonaceous, damp	1	18
Sand, gray, damp	1	19
Sand and carbonaceous damp clay	1	20
Clay, blue	15	35

140-099-06CDCB1
USGS P-15A
(Log modified from Verplancke Drilling Company)

Date drilled: 12-15-83 Altitude: 2,720 feet

Topsoil	1	1
Sand, brown, silty, dry	7	8
Sand, tan, silty, damp	9	17
Sandstone, dry	2	19
Sand, tan, silty, damp	6	25
Lignite, oxidized, damp	1	26
Clay, blue, silty, damp	1	27

140-099-06DAAD
USGS P-7
(Log modified from Verplancke Drilling Company)

Date drilled: 12-13-83 Altitude: 2,700 feet

Topsoil	1	1
Sand, brown, silty, dry	6	7
Clay, light-gray, dry	2	9
Clay, blue, sandy, damp	3	12
Clay, brown, sandy, damp	3	15
Clay, gray, silty, damp	4	19
Clay, blue, silty, wet	1	20
Lignite, oxidized, wet	1	21
Clay, blue, silty, soft, wet	9	30

Table 3.--Logs of selected wells and test holes--Continued

140-099-06DABB1
USGS P-19
(Log modified from Verplancke Drilling Company)

Date drilled: 05-22-84 Altitude: 2,742 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, tan	4	4
Sand, tan, and blue silty clay; mixed	9	13
Sand, tan, silty, damp	13	26
Sand, carbonaceous, silty, damp	3	29
Sand, oxidized, damp	2	31
Sand, tan, silty, damp	10	41
Sandstone, tan	3	44
Sand, tan, silty, damp	12	56
Sand, dark-gray, silty, damp	4	60
Lignite, hard; water	1	61
Clay, blue, silty	4	65

140-099-06DABB9
USGS P-19H
(Log modified from Verplancke Drilling Company)

Date drilled: 06-05-86 Altitude: 2,715 feet

Sand, tan	13	13
Sandstone	1	14
Sand, tan	1	15
Sandstone	1	16
Sand, brown	14	30
Lignite	2	32
Clay, gray	2	34

140-099-06DABC
USGS P-35
(Log modified from Verplancke Drilling Company)

Date drilled: 06-06-86 Altitude: 2,711 feet

Sand, tan	18	18
Sand, oxidized	2	20
Sand, gray	4	24
Lignite	2	26
Clay, blue	1	27

Table 3.--Logs of selected wells and test holes--Continued

140-099-06DABD
USGS P-4
(Log modified from Verplancke Drilling Company)

Date drilled: 12-13-83 Altitude: 2,708 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Clay, brown, silty	8	9
Sand, reddish-brown, silty, damp	9	18
Clay, carbonaceous, sandy, wet	2	20
Clay, blue, silty	5	25

140-099-06DBAB1
USGS P-26
(Log modified from Verplancke Drilling Company)

Date drilled: 06-06-86 Altitude: 2,709 feet

Sand, brown	12	12
Sand, oxidized	3	15
Sand, tan	13	28
Sand, blue	2	30
Lignite	1	31
Clay, blue	1	32

140-099-06DBAB2
USGS P-30
(Log modified from Verplancke Drilling Company)

Date drilled: 06-06-86 Altitude: 2,708 feet

Sand, tan	17	17
Topsoil	1	18
Sand, brown	7	25
Sand, gray	10	35
Lignite	1	36
Clay, blue	2	38

Table 3.--Logs of selected wells and test holes--Continued

140-099-06DBAB3
USGS P-28
(Log modified from Verplancke Drilling Company)

Date drilled: 06-05-86 Altitude: 2,706 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, brown	10	10
Sand, carbonaceous	2	12
Sand, brown	8	20
Shale	1	21
Sand, brown	8	29
Lignite	1	30
Clay, blue	1	31

140-099-06DBAB8
USGS P-27
(Log modified from Verplancke Drilling Company)

Date drilled: 06-05-86 Altitude: 2,709 feet

Sand, tan	17	17
Sand, gray, wet	16	33
Lignite	1	34
Clay, blue	2	36

140-099-06DBAD
USGS P-25
(Log modified from Verplancke Drilling Company)

Date drilled: 06-05-86 Altitude: 2,713 feet

Sand, brown	5	5
Sand, gray	5	10
Sand, brown	16	26
Shale, gray	1	27
Sand, gray	4	31
Lignite	1	32
Clay, blue	4	36

Table 3.--Logs of selected wells and test holes--Continued

140-099-06DBBA2
USGS P-34
(Log modified from Verplancke Drilling Company)

Date drilled: 06-06-86 Altitude: 2,712 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, gray, clayey	5	5
Sand, oxidized	2	7
Sand, tan	3	10
Sand, brown	20	30
Sand, blue	3	33
Lignite	1	34
Clay, blue	2	36

140-099-06DBBD
USGS P-3
(Log modified from Verplancke Drilling Company)

Date drilled: 12-13-83 Altitude: 2,708 feet

Topsoil	1	1
Clay, yellow, sandy	2	3
Sand, tan, silty, dry	5	8
Sand, brown, damp	3	11
Sand, blue-gray, damp	3	14
Sand, reddish-brown, damp	8	22
Sand, blue, damp	1	23
Sandstone, hard	2	25
Sand, brown, silty, damp	9	34
Sand, blue, silty; water	1	35
Lignite; water	2	37
Clay, blue, silty	2	39

Table 3.--Logs of selected wells and test holes--Continued

140-099-06DDDD
USGS P-12
(Log modified from Verplancke Drilling Company)

Date drilled: 12-14-83 Altitude: 2,705 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Sand, brown, silty, dry	11	12
Sand, tan, damp	7	19
Sand, damp	1	20
Lignite, oxidized, wet	1	21
Clay, brown, sandy	2	23

140-099-07ABBB
USGS P-14
(Log modified from Verplancke Drilling Company)

Date drilled: 12-14-83 Altitude: 2,725 feet

Topsoil	1	1
Silt, dark-brown, dry	3	4
Clay, blue, firm, dry	3	7
Sand, reddish-brown, silty, dry	3	10
Sand, tan, silty, dry	5	15
Sand, tan, silty, damp	17	32
Clay, tan, sandy, damp	2	34
Sand, tan, silty, damp	3	37
Sand, tan, silty; water	5	42
Sandstone	1	43
Sand, tan, silty	2	45
Sandstone	3	48
Sand, brown, silty	9	57
Clay, blue, silty	3	60

140-099-07ABBD
USGS F-4
(Log modified from Verplancke Drilling Company)

Date drilled: 05-16-84 Altitude: 2,713 feet

Sand, gray, silty, wet	3	3
Sand, tan, silty, wet	7	10
Clay, blue, silty, dry	2	12

Table 3.--Logs of selected wells and test holes--Continued

140-099-07ABCA1
USGS F-3A
(Log modified from Verplancke Drilling Company)

Date drilled: 05-16-84 Altitude: 2,739 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, tan, and rocks	7	7
Shale	2	9
Sand, tan, oxidized, damp	16	25
Sand, tan, silty; mixed with blue damp clay	11	36
Sand, tan, and blue unconsolidated damp clay; mixed; 1 inch of damp lignite	8	44
Clay, blue, silty	6	50

140-099-07ADAA
USGS P-13
(Log modified from Verplancke Drilling Company)

Date drilled: 12-14-83 Altitude: 2,720 feet

Topsoil	1	1
Sand, gray-tan, damp	17	18
Lignite, oxidized, damp	1	19
Clay, yellow, firm	1	20

140-099-07ADDD
USGS F-7
(Log modified from Verplancke Drilling Company)

Date drilled: 05-22-84 Altitude: 2,720 feet

Topsoil and rocks	2	2
Sand, gray, fine	6	8
Sand, tan and gray, damp	9	17
Sandstone, tan	1	18
Sand, tan, silty, damp	6	24
Sandstone, tan	1	25
Sand, tan and gray, silty; water	19	44
Lignite	1	45
Clay, blue, silty	5	50

Table 3.--Logs of selected wells and test holes--Continued

140-099-07BDAA
USGS F-8
(Log modified from Verplancke Drilling Company)

Date drilled: 05-16-84 Altitude: 2,705 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	2	2
Clay, dark-gray, sticky, damp	3	5
Clay, tan, silty, damp	8	13
Clay, gray, silty, damp	5	18
Lignite; water	2	20
Clay, gray	5	25

140-099-07CDCD
USGS F-2
(Log modified from Verplancke Drilling Company)

Date drilled: 05-16-84 Altitude: 2,703 feet

Topsoil	1	1
Clay, gray	6	7
Lignite, oxidized	1	8
Clay, tan, silty	12	20
Clay, blue	5	25
Lignite	2	27
Clay, blue	3	30
Clay, carbonaceous	2	32
Clay, blue	3	35

140-099-07DDDD1
USGS F-1
(Log modified from Verplancke Drilling Company)

Date drilled: 05-16-84 Altitude: 2,694 feet

Clay, tan	6	6
Shale, light-gray, soft	2	8
Sand, tan, silty	6	14
Clay, blue, damp	2	16
Clay, carbonaceous; water	2	18
Clay, dark-gray	3	21
Clay, blue, silty, dry	17	38
Lignite, dry	2	40
Clay, blue, damp	5	45

Table 3.--Logs of selected wells and test holes--Continued

140-100-09ADA
USGS T-1
(Log modified from Verplancke Drilling Company)

Date drilled: 12-15-83 Altitude: 2,738 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Clay, brown	12	13
Clay, brown, silty	10	23
Clay, blue, silty	1	24
Clay, brown, silty	1	25
Clay, gray, silty	4	29
Lignite, oxidized, dry	1	30
Clay, blue	1	31
Lignite, oxidized, dry	1	32
Clay, blue	5	37
Lignite, dry	11	48
Clay, blue	18	66
Lignite	4	70
Clay, blue, very silty	27	97
Clay, brown	1	98
Lignite, dry	2	100
Clay, blue	7	107
Lignite, dry	2	109
Clay, brown, carbonaceous	4	113
Lignite, dry	4	117
Clay, gray, silty, damp	3	120
Sand, blue, damp	10	130
Sand, blue, dry	35	165

140-100-10BABC1
USGS T-6A
(Log modified from Verplancke Drilling Company)

Date drilled: 04-17-84 Altitude: 2,759 feet

Silt, tan, sandy	6	6
Sand, tan, silty	4	10
Silt, tan, sandy	15	25
Clay, carbonaceous	1	26
Clay, gray, silty, sandy	4	30
Clay, tan, silty	5	35

Table 3.--Logs of selected wells and test holes--Continued

140-100-10BABC7
USGS T-12
(Log modified from Verplancke Drilling Company)

Date drilled: 06-07-84 Altitude: 2,759 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, tan, silty	5	5
Sand, tan, silty, damp; mixed with clay and rocks	10	15
Silt, carbonaceous, sandy	1	16
Sand, tan, silty, damp; mixed with clay and lignite	4	20
Sand, damp; with carbonaceous material	6	26
Clay, gray, silty	8	34
Clay, blue, silty	6	40

140-100-10BACA
USGS T-3
(Log modified from Verplancke Drilling Company)

Date drilled: 04-17-84 Altitude: 2,732 feet

Topsoil	4	4
Clay, tan, silty, damp	7	11
Clay, tan, damp	9	20
Clay, dark-gray, damp	3	23
Clay, gray, silty	3	26
Clay, blue, silty	1	27
Shale	1	28
Clay, blue, silty, very damp	2	30
Lignite	1	31
Clay, blue, damp	2	33
Lignite, dry	1	34
Clay, blue, damp	3	37

Table 3.--Logs of selected wells and test holes--Continued

140-100-10BACB1
USGS T-5A
(Log modified from Verplancke Drilling Company)

Date drilled: 04-17-84 Altitude: 2,738 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Lignite, soft	1	1
Sand, tan, silty	10	11
Clay, tan, silty, damp	3	14
Clay, blue, silty, very damp	3	17
Shale, blue	1	18
Clay, blue, damp	3	21
Clay, blue, silty	5	26

140-100-10BACB3
USGS T-8
(Log modified from Verplancke Drilling Company)

Date drilled: 04-18-84 Altitude: 2,738 feet

Lignite, soft	3	3
Silt, yellow, sandy	22	25

140-100-10BACC
USGS T-4
(Log modified from Verplancke Drilling Company)

Date drilled: 04-17-84 Altitude: 2,746 feet

Clay, brown, silty, dry	8	8
Clay, tan, silty, dry	6	14
Clay, tan, silty, damp	4	18
Clay, gray, silty, damp	2	20
Clay, blue, damp	3	23
Sand, blue, silty, damp	2	25
Clay, blue, silty, damp	5	30
Clay, blue, silty, dry	3	33
Shale, blue	1	34

Table 3.--Logs of selected wells and test holes--Continued

140-100-10BACD
USGS T-2
(Log modified from Verplancke Drilling Company)

Date drilled: 04-17-84 Altitude: 2,760 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, tan	14	14
Sand, tan, damp	11	25
Clay, carbonaceous	4	29
Clay, tan, silty	3	32
Clay, blue, silty	3	35

140-100-10BBAD
USGS T-10
(Log modified from Verplancke Drilling Company)

Date drilled: 04-18-84 Altitude: 2,745 feet

Silt, brown, sandy	6	6
Clay, tan, silty	7	13
Clay, tan, silty, damp	5	18
Clay, oxidized	1	19
Clay, tan, silty, damp	9	28
Shale, blue	2	30
Clay, blue, silty, dry	6	36
Clay, blue	3	39
Clay, carbonaceous	1	40
Clay, blue	5	45

140-100-10BDBA1
USGS T-9A
(Log modified from Verplancke Drilling Company)

Date drilled: 04-18-84 Altitude: 2,750 feet

Silt, brown, sandy	5	5
Sand, tan, silty	6	11
Clay, gray, silty	5	16
Clay, carbonaceous, dry	1	17
Clay, carbonaceous, wet	3	20

Table 3.--Logs of selected wells and test holes--Continued

140-100-10BDBA6
USGS T-11
(Log modified from Verplancke Drilling Company)

Date drilled: 06-07-84 Altitude: 2,752 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, tan, silty	12	12
Clay, light-gray, silty	4	16
Clay, carbonaceous, silty, sandy	2	18
Lignite, soft, and sand; mixed	4	22
Clay, tan, silty	1	23
Clay, blue, silty	2	25

141-099-33DDDA
USGS P-16
(Log modified from Verplancke Drilling Company)

Date drilled: 12-15-83 Altitude: 2,725 feet

Topsoil	1	1
Sand, brown, very silty, dry	6	7
Sand, tan, silty, damp	9	16
Sand, blue-gray, silty, damp	3	19
Clay, tan, sandy, damp	2	21
Clay, blue, sandy, damp	2	23
Sand, blue, wet	7	30
Sandstone, blue, hard, dry	2	32
Sandstone, brown, soft, damp	3	35
Sand, tan; water	6	41
Sand, carbonaceous, wet	1	42
Sand, blue, wet	9	51
Sandstone, dry	3	54
Sand, blue, wet	8	62
Clay, blue, silty	3	65

Table 3.--Logs of selected wells and test holes--Continued

142-099-23CDCA
USGS K-2
(Log modified from Verplancke Drilling Company)

Date drilled: 04-18-84 Altitude: 2,681 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, tan, silty	8	8
Sand, oxidized	2	10
Sand, gray, silty	3	13
Lignite	2	15
Clay, blue, silty	1	16
Clay, carbonaceous	1	17
Clay, blue, silty	2	19
Clay, gray, silty	1	20

142-099-23CDCB1
USGS K-1
(Log modified from Verplancke Drilling Company)

Date drilled: 04-18-84 Altitude: 2,718 feet

Sand, oxidized	14	14
Sand, tan, silty	17	31
Clay, carbonaceous, silty	6	37
Sand, tan, silty	15	52
Clay, carbonaceous, silty	3	55
Clay, gray, silty, damp	13	68
Clay, blue, silty	4	72
Sand, blue, silty, damp	3	75
Clay, blue, silty, firm	10	85

142-099-23CDDD
USGS K-3
(Log modified from Verplancke Drilling Company)

Date drilled: 04-18-84 Altitude: 2,674 feet

Sand, tan, silty, damp	18	18
Lignite, soft, damp	2	20
Clay, carbonaceous, damp	2	22
Clay, gray, silty, damp	4	26
Clay, blue, silty, firm	12	38

Table 3.--Logs of selected wells and test holes--Continued

142-099-26BACC1
USGS K-4
(Log modified from Verplancke Drilling Company)

Date drilled: 04-18-84 Altitude: 2,691 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, tan, damp	45	45
Sand, gray, silty, very damp	4	49
Clay, brown, sandy, very damp	3	52
Clay, tan, silty, very damp	28	80
Clay, brown, silty, very damp	15	95
Clay, oxidized, carbonaceous, and gray sandy silt; with some wet lignite	5	100

142-099-26BACC2
USGS K-5A
(Log modified from Verplancke Drilling Company)

Date drilled: 04-23-84 Altitude: 2,691 feet

Sand, tan and brown, silty, damp	31	31
Sand, tan and brown; mixed with particles of silty clay and damp sandstone	18	49
Clay, tan and brown, sandy; with rocks	4	53
Clay, gray, silty, sandy; feels like natural materials under spoil pile	2	55

142-099-26BADA
USGS K-6
(Log modified from Verplancke Drilling Company)

Date drilled: 04-23-84 Altitude: 2,689 feet

Sand, carbonaceous, silty	6	6
Clay, carbonaceous, silty, sandy	4	10
Sand, tan, fine, damp	20	30
Clay, gray, silty, damp	2	32
Lignite, soft, damp	1	33
Clay, gray, silty, damp; some lignite	2	35
Clay, blue, silty	5	40

Table 3.--Logs of selected wells and test holes--Continued

142-099-26BBAA1
USGS K-7A
(Log modified from Verplancke Drilling Company)

Date drilled: 04-24-84 Altitude: 2,718 feet

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, fine, and rocks	14	14
Clay, tan, silty	2	16
Sand, gray, silty	1	17
Clay, gray, silty	3	20
Sand, tan, fine, very loose	3	23
Clay, tan, silty	3	26
Sandstone	1	27
Sand, tan, silty, damp	6	33
Clay, gray, silty, damp	2	35
Sand, tan, silty, damp	8	43
Cored interval; no lithology available	12	55

Table 4.--Field and laboratory determination of physical properties and major-ion and nutrient concentrations of water samples from selected wells and springs

[Specific conductance, field, value shown is the field specific conductance measured at the time of water-quality sampling; µS/cm, microsiemens per centimeter; °C, degrees Celsius; Specific conductance, laboratory, value shown is the laboratory specific conductance measured at the time of analysis; pH, field, value shown is the field pH measured at the time of water-quality sampling; pH, laboratory, value shown is the laboratory pH measured at the time of analysis; Temperature, water, value shown is the field temperature measured at the time of water-quality sampling; mg/L, milligrams per liter; --, no data; <, less than; >, greater than]

Township-range location number	Date	Time	Depth of well, total (feet)	Specific conductance, field (µS/cm at 25 °C)	Specific conductance, laboratory (µS/cm at 25 °C)	pH, field (standard units)	pH, laboratory (standard units)	Temperature, water (°C)
136-100-05ABCC	08-08-84	1310	19	5,290	5,140	7.0	7.1	12.0
	11-08-84	1100	19	9,700	8,620	6.9	8.1	9.5
136-100-05ACAA	11-09-84	0830	50	7,900	7,610	7.1	8.0	8.5
136-100-05ACBC	08-16-84	1200	16	2,950	3,420	5.9	6.1	15.0
	11-08-84	1000	16	3,600	3,560	6.1	8.4	10.5
136-100-05ACDB1	08-15-84	0945	118	4,700	5,310	8.6	8.1	10.0
	11-08-84	1400	118	5,500	5,450	8.4	8.3	9.0
136-100-05ACDD1	11-09-84	0730	34	6,990	6,920	6.7	7.5	8.5
136-100-05BDAD	08-10-84	0950	45	3,560	3,450	6.0	6.3	21.0
	11-08-84	1500	45	2,410	2,510	8.6	9.1	8.5
136-100-05CAAA	11-08-84	1530	34	2,240	2,190	8.9	9.0	8.5
136-100-17ADD	01-23-85	1405	40	2,280	2,280	7.2	7.5	8.0
136-100-20AAD	01-22-85	1410	45	1,680	1,560	7.4	7.8	6.0
136-100-22BAA	01-22-85	1330	58	2,450	2,470	7.5	7.8	8.0
137-100-04CDD	01-23-85	1200	40	1,580	1,550	8.0	8.2	6.0

Table 4.--Field and laboratory determination of physical properties and major-ion and nutrient concentrations of water samples from selected wells and springs--Continued

Township-range location number	Hardness, total (mg/L as $CaCO_3$)	Alkalinity, total, laboratory (mg/L as $CaCO_3$)	Dissolved solids, calculated sum of constituents (mg/L)	Dissolved solids, residue at 180 °C (mg/L)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)
136-100-05ABCC	540	510	3,900	--	98	72
	1,600	590	7,370	--	260	220
136-100-05ACAA	1,700	280	6,670	--	300	220
136-100-05ACBC	240	110	2,690	--	66	17
	290	140	2,820	--	83	19
136-100-05ACDB1	69	910	3,680	--	17	6.3
	74	510	3,750	--	18	7.0
136-100-05ACDD1	450	390	5,320	--	59	73
136-100-05BDAD	310	160	2,780	--	95	18
	18	520	1,380	--	4.7	1.4
136-100-05CAAA	12	450	1,150	--	3.4	.9
136-100-17ADD	900	430	1,640	--	200	98
136-100-20AAD	400	280	1,080	--	93	41
136-100-22BAA	430	400	1,750	--	93	47
137-100-04CDD	60	430	985	--	12	7.2

Table 4.--Field and laboratory determination of physical properties and major-ion and nutrient concentrations of water samples from selected wells and springs--Continued

Township-range location number	Sodium, dissolved (mg/L as Na)	Sodium-adsorption ratio	Potassium, dissolved (mg/L as K)	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Silica, dissolved (mg/L as SiO_2)	Nitrite plus nitrate, total (mg/L as N)
136-100-05ABCC	1,100	21	--	2,300	6.7	1.0	15	<0.10
	1,800	20	6.8	4,700	12	1.1	18	.20
136-100-05ACAA	1,500	16	16	4,400	39	1.4	10	3.3
136-100-05ACBC	710	20	--	1,700	59	.4	57	.10
	710	18	--	1,800	60	.3	54	<.10
136-100-05ACDB1	1,300	68	--	1,800	4.6	1.0	7.8	<.10
	1,300	66	--	2,100	6.9	1.1	8.4	<.10
136-100-05ACDD1	1,500	31	10	3,400	9.7	.2	19	<.10
136-100-05BDAD	740	18	--	1,700	58	.3	61	.30
	610	63	--	400	39	1.1	15	<.10
136-100-05CAAA	530	66	--	310	25	1.2	9.5	<.10
136-100-17ADD	200	3.0	--	630	68	.2	17	40
136-100-20AAD	200	4.0	--	460	15	.9	20	18
136-100-22BAA	420	9.0	--	890	19	.5	18	6.6
137-100-04CDD	330	19	--	340	14	1.0	22	.10

Table 4.--Field and laboratory determination of physical properties and major-ion and nutrient concentrations of water samples from selected wells and springs--Continued

Township-range location number	Nitrite plus nitrate, dissolved (mg/L as N)	Nitrogen, ammonia, total (mg/L as N)	Nitrogen, ammonia plus organic, total (mg/L as N)	Phosphorus, total (mg/L as P)	Phosphorus, total (mg/L as PO_4)	Phosphorus, ortho, total (mg/L as P)	Phosphorus, ortho, dissolved (mg/L as P)
136-100-05ABCC	<0.10	0.20	1.5	0.04	--	<0.01	--
	<.10	.21	2.3	.01	--	<.01	--
136-100-05ACAA	3.2	.52	1.9	.21	--	<.01	--
136-100-05ACBC	<.10	.80	4.9	.30	--	.26	--
	<.10	.77	3.8	.15	--	.09	--
136-100-05ACDB1	<.10	.49	3.0	.40	--	.22	--
	<.10	.47	3.4	.90	--	.22	--
136-100-05ACDD1	<.10	5.7	6.0	.63	--	.19	--
136-100-05BDAD	.18	1.0	5.2	.25	--	.11	--
	<.10	.22	2.4	.61	--	.48	--
136-100-05CAAA	<.10	.20	2.1	.45	--	.30	--
136-100-17ADD	39	.07	.80	.02	--	.02	--
136-100-20AAD	18	.03	.60	.01	--	.01	--
136-100-22BAA	6.4	.02	.60	.02	--	.02	--
137-100-04CDD	.14	.11	.40	.18	--	.19	--

Table 4.--Field and laboratory determination of physical properties and major-ion and nutrient concentrations of water samples from selected wells and springs--Continued

Township-range location number	Date	Time	Depth of well, total (feet)	Specific conductance, field (µS/cm at 25 °C)	Specific conductance, laboratory (µS/cm at 25 °C)	pH, field (standard units)	pH, laboratory (standard units)	Temperature, water (°C)
137-100-05CBDA	08-08-84	0850	17	742	680	7.2	7.1	16.5
	11-06-84	1210	17	805	770	7.4	7.7	10.0
137-100-05DACB1	07-25-84	1000	20	1,440	1,400	6.4	6.8	12.0
	11-07-84	1400	20	1,650	1,620	6.4	7.9	9.0
137-100-05DACB5	08-01-84	1100	10	4,060	4,200	9.3	8.7	20.0
137-100-05DBDA1	08-01-84	1540	20	3,590	3,400	8.1	8.1	18.0
	11-07-84	1230	20	3,590	3,660	8.1	8.3	9.0
137-100-05DBDA2	08-14-84	1400	43	7,200	7,640	7.9	7.9	18.0
	11-07-84	1430	43	7,900	7,840	7.5	8.2	8.5
137-100-05DBDD1	08-01-84	1400	36	4,000	4,350	8.7	8.7	14.0
	11-07-84	1100	36	4,590	4,480	8.5	8.7	8.5
137-100-05DBDD2	08-01-84	1230	21	1,300	1,750	6.2	6.6	12.5
	11-06-84	1400	21	2,000	2,020	6.3	7.6	10.0
137-100-08ABB	01-23-85	0930	1,790	1,770	1,840	8.6	8.7	11.0
137-100-26CCA	01-23-85	1400	Spring	1,010	1,010	7.4	7.7	4.0
137-100-28DDA	01-23-85	1245	Spring	2,150	2,310	6.9	7.2	4.0
138-100-28ADA	01-22-85	1215	316	1,600	1,610	8.8	8.9	11.0
140-099-06AAAA	04-24-84	1230	18	2,100	2,430	7.0	7.6	8.5
	11-13-84	1425	18	1,990	2,180	7.6	7.9	9.0
140-099-06ACCD2	05-17-84	1320	237	3,050	3,230	8.7	8.7	9.0

Table 4.--Field and laboratory determination of physical properties and major-ion and nutrient concentrations of water samples from selected wells and springs--Continued

Township-range location number	Hardness, total (mg/L as $CaCO_3$)	Alkalinity, total, laboratory (mg/L as $CaCO_3$)	Dissolved solids, calculated sum of constituents (mg/L)	Dissolved solids, residue at 180 °C (mg/L)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)
137-100-05CBDA	65	67	546	--	24	1.2
	94	100	606	--	36	1.0
137-100-05DACB1	33	310	1,290	--	8.3	2.9
	33	280	1,510	--	8.8	2.5
137-100-05DACB5	100	420	--	--	22	11
137-100-05DBDA1	47	770	2,850	--	13	3.3
	42	740	2,920	--	12	2.9
137-100-05DBDA2	180	430	5,980	--	32	24
	170	460	6,000	--	27	24
137-100-05DBDD1	27	880	3,280	--	7.6	1.9
	37	460	3,030	--	9.2	3.3
137-100-05DBDD2	61	240	1,510	--	20	2.5
	50	210	1,640	--	16	2.3
137-100-08ABB	8	600	1,050	--	2.3	.5
137-100-26CCA	28	280	640	--	7.0	2.6
137-100-28DDA	590	210	1,590	--	120	71
138-100-28ADA	6	690	999	--	1.5	.6
140-099-06AAAA	1,100	410	1,920	--	230	120
	900	460	1,630	--	210	90
140-099-06ACCD2	13	300	2,030	--	3.5	1.0

Table 4.--Field and laboratory determination of physical properties and major-ion and nutrient concentrations of water samples from selected wells and springs--Continued

Township-range location number	Sodium, dissolved (mg/L as Na)	Sodium-adsorption ratio	Potassium, dissolved (mg/L as K)	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Silica, dissolved (mg/L as SiO_2)	Nitrite plus nitrate, total (mg/L as N)
137-100-05CBDA	110	6.0	--	320	12	0.3	32	0.30
	140	6.0	--	320	13	<.1	30	<.10
137-100-05DACB1	270	21	--	740	43	.6	38	.40
	360	28	--	880	49	.6	32	.20
137-100-05DACB5	950	41	--	1,700	21	1.3	29	--
137-100-05DBDA1	870	56	--	1,400	58	1.1	28	.40
	860	58	--	1,500	63	1.2	23	.10
137-100-05DBDA2	1,900	62	10	3,700	40	1.1	13	.90
	1,900	64	11	3,700	43	1.1	14	.80
137-100-05DBDD1	1,100	92	--	1,600	32	.7	10	<.10
	1,100	79	--	1,600	33	.7	10	<.10
137-100-05DBDD2	400	22	--	840	31	.3	52	.30
	420	26	--	970	34	.3	52	.20
137-100-08ABB	430	70	--	190	47	3.1	15	<.10
137-100-26CCA	220	19	--	210	8.8	.4	21	<.10
137-100-28DDA	290	5.0	--	950	14	.3	20	<.10
138-100-28ADA	380	68	--	180	8.0	8.1	8.2	<.10
140-099-06AAAA	170	2.0	--	1,100	10	.2	14	5.7
	210	3.0	--	780	19	.2	15	4.6
140-099-06ACCD2	730	92	--	1,100	3.9	1.3	8.9	<.10

Table 4.--Field and laboratory determination of physical properties and major-ion and nutrient concentrations of water samples from selected wells and springs--Continued

Township-range location number	Nitrite plus nitrate, dissolved (mg/L as N)	Nitrogen, ammonia, total (mg/L as N)	Nitrogen, ammonia plus organic, total (mg/L as N)	Phosphorus, total (mg/L as P)	Phosphorus, total (mg/L as PO_4)	Phosphorus, ortho, total (mg/L as P)	Phosphorus, ortho, dissolved (mg/L as P)
137-100-05CBDA	0.32	0.28	3.7	0.17	--	0.04	--
	<.10	.33	3.8	.32	--	.25	--
137-100-05DACB1	.42	1.5	5.4	1.8	--	1.6	--
	.31	1.2	6.0	1.4	--	1.1	--
137-100-05DACB5	.25	--	--	--	--	--	--
137-100-05DBDA1	.24	1.3	4.1	.72	--	.86	--
	.20	1.1	4.5	.58	--	.80	--
137-100-05DBDA2	.90	.09	1.0	.11	--	.03	0.01
	.84	.07	1.1	.20	--	.02	--
137-100-05DBDD1	.12	.41	2.3	.50	--	.41	--
	.10	.44	2.0	.48	--	.46	--
137-100-05DBDD2	.27	.76	5.6	2.0	--	2.0	--
	.23	.75	5.0	1.6	--	1.6	--
137-100-08ABB	<.10	.60	.80	.49	--	.50	--
137-100-26CCA	<.10	.09	.50	.06	--	.06	--
137-100-28DDA	<.10	.07	.70	.01	--	<.01	--
138-100-28ADA	<.10	.23	.60	.60	--	.61	--
140-099-06AAAA	5.9	.06	1.2	.02	0.06	.03	--
	5.4	.92	3.0	.16	--	.07	--
140-099-06ACCD2	<.10	.24	.90	.34	1.0	.32	--

Table 4.--Field and laboratory determination of physical properties and major-ion and nutrient concentrations of water samples from selected wells and springs--Continued

Township-range location number	Date	Time	Depth of well, total (feet)	Specific conductance, field (µS/cm at 25 °C)	Specific conductance, laboratory (µS/cm at 25 °C)	pH, field (standard units)	pH, laboratory (standard units)	Temperature, water (°C)
140-099-06ACCD3	05-16-84	1600	29	480	366	9.2	8.4	9.5
140-099-06ACCD4	10-30-86	1050	27	1,410	1,180	7.2	7.3	10.0
140-099-06ACCD12	10-28-86	1700	31	432	413	7.1	7.2	9.5
140-099-06ACCD13	10-28-86	1600	36	500	486	7.5	7.4	10.0
140-099-06ACDD	10-29-86	1200	32	418	408	7.2	7.3	9.5
140-099-06ADCC	10-29-86	1300	29	895	836	6.1	6.2	9.5
140-099-06BCAD	05-17-84	0920	20	1,850	1,950	7.1	7.1	8.0
140-099-06BDAB	05-17-84	1000	38	640	622	8.8	8.6	9.0
140-099-06BDBB1	06-06-84	0830	28	--	69,800	7.0	7.0	7.5
140-099-06BDCA1	05-17-84	1040	24	560	607	6.7	7.4	8.0
140-099-06CAAB	05-17-84	1140	30	510	437	9.8	9.7	9.0
140-099-06CABC1	06-07-84	1225	12	4,900	4,800	4.8	5.0	16.0
140-099-06CABD	05-16-84	1330	32	1,800	1,560	6.2	6.6	9.5
140-099-06CBBD1	06-07-84	1315	58	>8,000	9,350	6.6	7.5	10.0
140-099-06CCCC	08-17-84	1300	15	22,600	26,200	7.2	7.3	9.0
	11-07-84	1700	15	22,000	26,900	6.8	7.7	10.0
140-099-06DAAD	04-24-84	1340	30	1,900	2,130	7.3	7.8	8.5
	11-13-84	1630	30	2,160	2,130	7.0	8.5	8.0
140-099-06DABB1	06-07-84	1140	61	650	532	6.1	6.6	9.5
140-099-06DABB9	10-30-86	1530	34	579	511	6.2	6.1	10.5

Table 4.--Field and laboratory determination of physical properties and major-ion and nutrient concentrations of water samples from selected wells and springs--Continued

Township-range location number	Hardness, total (mg/L as $CaCO_3$)	Alkalinity, total, laboratory (mg/L as $CaCO_3$)	Dissolved solids, calculated sum of constituents (mg/L)	Dissolved solids, residue at 180 °C (mg/L)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)
140-099-06ACCD3	160	39	--	--	46	9.9
140-099-06ACCD4	500	--	715	927	120	49
140-099-06ACCD12	88	--	183	259	19	9.7
140-099-06ACCD13	120	--	200	296	25	13
140-099-06ACDD	170	--	207	273	50	11
140-099-06ADCC	130	--	544	581	27	14
140-099-06BCAD	320	88	963	--	60	41
140-099-06BDAB	150	180	409	--	35	15
140-099-06BDBB1	19,000	140	42,600	--	5,000	1,600
140-099-06BDCA1	120	210	364	--	28	13
140-099-06CAAB	88	73	269	--	22	7.9
140-099-06CABC1	2,000	3	4,410	--	410	240
140-099-06CABD	340	180	1,090	--	65	44
140-099-06CBBD1	3,100	480	8,900	--	430	480
140-099-06CCCC	3,900	810	--	--	390	710
	4,000	440	29,200	--	400	730
140-099-06DAAD	560	610	1,480	--	140	51
	600	490	1,440	--	150	55
140-099-06DABB1	83	86	319	--	20	7.9
140-099-06DABB9	81	--	301	339	18	8.6

Table 4.--Field and laboratory determination of physical properties and major-ion and nutrient concentrations of water samples from selected wells and springs--Continued

Township-range location number	Sodium, dissolved (mg/L as Na)	Sodium-adsorption ratio	Potassium, dissolved (mg/L as K)	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Silica, dissolved (mg/L as SiO_2)	Nitrite plus nitrate, total (mg/L as N)
140-099-06ACCD3	19	0.7	--	93	--	0.3	22	9.7
140-099-06ACCD4	99	2.0	2.9	400	28	.3	14	--
140-099-06ACCD12	57	3.0	3.0	77	4.1	.3	12	--
140-099-06ACCD13	64	3.0	2.4	75	3.9	.5	14	--
140-099-06ACDD	22	.7	3.6	92	3.2	.2	14	--
140-099-06ADCC	140	5.0	3.5	330	10	.2	14	--
140-099-06BCAD	230	6.0	--	32	530	.2	13	<.10
140-099-06BDAB	94	3.0	--	130	8.7	.4	17	.20
140-099-06BDBB1	13,000	41	250	590	22,000	<.1	6.5	4.5
140-099-06BDCA1	83	3.0	--	97	3.3	.3	11	<.10
140-099-06CAAB	64	3.0	--	110	8.5	.4	12	<.10
140-099-06CABC1	580	6.0	--	3,100	18	1.2	49	1.2
140-099-06CABD	190	4.0	--	640	21	.4	16	1.3
140-099-06CBBD1	1,700	14	15	5,900	63	1.0	17	.30
140-099-06CCCC	8,000	56	43	12,000	<.2	.4	11	<.10
	7,700	53	43	20,000	4.0	.3	14	<.10
140-099-06DAAD	290	5.0	--	610	11	.2	17	<.10
	290	5.0	--	620	9.8	.3	15	.50
140-099-06DABB1	74	4.0	--	120	23	.3	19	.60
140-099-06DABB9	79	4.0	4.0	160	9.7	.1	17	--

Table 4.--Field and laboratory determination of physical properties and major-ion and nutrient concentrations of water samples from selected wells and springs--Continued

Township-range location number	Nitrite plus nitrate, dissolved (mg/L as N)	Nitrogen, ammonia, total (mg/L as N)	Nitrogen, ammonia plus organic, total (mg/L as N)	Phosphorus, total (mg/L as P)	Phosphorus, total (mg/L as PO_4)	Phosphorus, ortho, total (mg/L as P)	Phosphorus, ortho, dissolved (mg/L as P)
140-099-06ACCD3	9.8	0.06	2.0	0.06	0.18	0.02	--
140-099-06ACCD4	<.10	--	--	--	--	--	--
140-099-06ACCD12	<.10	--	--	--	--	--	--
140-099-06ACCD13	.42	--	--	--	--	--	--
140-099-06ACDD	2.5	--	--	--	--	--	--
140-099-06ADCC	.57	--	--	--	--	--	--
140-099-06BCAD	<.10	.11	.20	.05	.15	.02	--
140-099-06BDAB	.13	.02	.40	.04	.12	.04	--
140-099-06BDBB1	4.5	1.0	28	.10	--	.04	0.03
140-099-06BDCA1	<.10	.12	.30	.12	.37	.06	--
140-099-06CAAB	.10	.08	.20	.03	.09	.02	--
140-099-06CABC1	1.1	.03	.50	.01	--	.02	--
140-099-06CABD	1.2	.22	1.4	.05	.15	.03	--
140-099-06CBBD1	.34	.10	2.2	.09	--	.02	.03
140-099-06CCCC	<.10	--	--	.05	--	--	.02
	<.10	1.1	2.6	.07	--	.01	--
140-099-06DAAD	<.10	.10	1.0	.01	.03	.02	--
	.97	.06	.20	.02	--	.02	--
140-099-06DABB1	.56	.07	.60	.09	--	.04	--
140-099-06DABB9	<.10	--	--	--	--	--	--

Table 4.--Field and laboratory determination of physical properties and major-ion and nutrient concentrations of water samples from selected wells and springs--Continued

Township-range location number	Date	Time	Depth of well, total (feet)	Specific conductance, field (µS/cm at 25 °C)	Specific conductance, laboratory (µS/cm at 25 °C)	pH, field (standard units)	pH, laboratory (standard units)	Temperature, water (°C)
140-099-06DABC	10-28-86	0955	27	920	869	6.5	6.5	11.5
140-099-06DABD	06-07-84	0930	18	>8,000	11,600	12.2	12.0	12.0
140-099-06DBAB1	10-28-86	1315	32	640	610	7.3	7.3	9.0
140-099-06DBAB2	10-29-86	1025	31	1,240	1,100	7.5	7.5	9.5
140-099-06DBAB3	10-30-86	1215	31	1,390	1,180	7.3	7.3	9.5
140-099-06DBAB8	10-30-86	1330	29	3,090	2,700	6.2	6.2	8.0
140-099-06DBAD	10-28-86	1130	36	858	793	6.6	6.6	9.5
140-099-06DBBA2	10-28-86	1440	36	700	682	7.2	7.2	10.0
140-099-06DBBD	05-17-84	1230	39	540	486	8.9	8.9	9.0
140-099-06DDDD	04-24-84	1420	23	675	623	8.9	9.1	8.5
	11-13-84	1520	23	1,090	1,050	7.6	8.6	9.0
140-099-07ABBB	08-15-84	1400	57	1,160	1,170	11.4	10.5	9.0
140-099-07ADDD	08-15-84	1240	50	795	906	7.5	7.8	10.0
140-099-07BDAA	08-15-84	1300	23	8,600	8,160	6.1	6.2	8.0
	11-06-84	1700	23	8,300	7,980	6.1	8.3	10.0
140-099-07CDCD	04-02-84	1145	35	2,760	2,820	3.3	3.5	--
140-099-07DDDD2	08-17-84	1430	20	14,500	13,400	6.8	7.2	10.0
140-100-10BABC4	05-15-84	1145	37	4,900	4,790	6.6	7.0	9.0
140-100-10BACA	05-15-84	1450	37	5,900	6,180	6.8	7.3	8.5
140-100-10BACB1	08-13-84	1600	26	10,100	11,300	12.4	11.8	26.0

Table 4.--Field and laboratory determination of physical properties and major-ion and nutrient concentrations of water samples from selected wells and springs--Continued

Township-range location number	Hardness, total (mg/L as $CaCO_3$)	Alkalinity, total, laboratory (mg/L as $CaCO_3$)	Dissolved solids, calculated sum of constituents (mg/L)	Dissolved solids, residue at 180 °C (mg/L)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)
140-099-06DABC	86	--	561	609	18	9.9
140-099-06DABD	3,700	1,480	4,150	--	1,500	.1
140-099-06DBAB1	140	--	254	387	31	16
140-099-06DBAB2	400	--	626	754	94	41
140-099-06DBAB3	460	--	689	799	110	45
140-099-06DBAB8	1,700	--	2,370	2,530	520	95
140-099-06DBAD	130	--	453	540	26	15
140-099-06DB8A2	150	--	305	439	31	17
140-099-06DB8D	110	130	306	--	27	11
140-099-06DDDD	95	140	355	--	22	9.7
	260	200	691	--	56	29
140-099-07ABBB	190	49	732	--	59	9.3
140-099-07ADDD	280	260	584	--	60	32
140-099-07BDAA	3,200	370	7,950	--	480	490
	3,000	380	7,510	--	460	460
140-099-07CDCD	1,800	--	--	--	460	170
140-099-07DDDD2	2,800	810	12,400	--	460	400
140-100-10BABC4	2,200	480	--	--	420	290
140-100-10BACA	950	500	5,010	--	100	170
140-100-10BACB1	1,500	2,150	4,840	5,280	600	.4

Table 4.--Field and laboratory determination of physical properties and major-ion and nutrient concentrations of water samples from selected wells and springs--Continued

Township-range location number	Sodium, dissolved (mg/L as Na)	Sodium-adsorption ratio	Potassium, dissolved (mg/L as K)	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Silica, dissolved (mg/L as SiO_2)	Nitrite plus nitrate, total (mg/L as N)
140-099-06DABC	160	8.0	4.0	250	10	0.3	20	--
140-099-06DABD	130	1.0	320	1,300	6.3	.1	<1.0	0.30
140-099-06DBAB1	86	3.0	2.6	96	6.3	.5	15	--
140-099-06DBAB2	110	2.0	2.8	320	43	.5	11	--
140-099-06DBAB3	110	2.0	3.1	390	9.3	.4	17	--
140-099-06DBAB8	73	.8	19	1,600	6.1	.2	22	--
140-099-06DBAD	130	5.0	3.1	210	43	.3	24	--
140-099-06DBBA2	100	4.0	2.9	130	8.1	.6	14	--
140-099-06DBBD	66	3.0	--	90	4.5	.4	12	3.5
140-099-06DDDD	70	3.0	--	85	2.4	.7	21	20
	120	3.0	--	230	7.1	1.3	21	26
140-099-07ABBB	170	5.0	--	440	8.7	.3	11	.70
140-099-07ADDD	92	2.0	--	220	4.2	.4	16	<.10
140-099-07BDAA	1,300	10	16	5,400	27	.2	16	.50
	1,200	9.0	15	5,100	29	.2	19	<.10
140-099-07CDCD	53	.5	1.3	2,000	2.8	.8	17	--
140-099-07DDDD2	3,000	25	25	7,900	35	.3	14	21
140-100-10BABC4	480	4.0	--	2,700	--	.3	21	17
140-100-10BACA	1,100	16	--	3,300	16	<.1	12	<.10
140-100-10BACB1	770	9.0	160	2,000	19	.3	2.3	<.10

Table 4.--Field and laboratory determination of physical properties and major-ion and nutrient concentrations of water samples from selected wells and springs--Continued

Township-range location number	Nitrite plus nitrate, dissolved (mg/L as N)	Nitrogen, ammonia, total (mg/L as N)	Nitrogen, ammonia plus organic, total (mg/L as N)	Phosphorus, total (mg/L as P)	Phosphorus, total (mg/L as PO_4)	Phosphorus, ortho, total (mg/L as P)	Phosphorus, ortho, dissolved (mg/L as P)
140-099-06DABC	20	--	--	--	--	--	--
140-099-06DABD	.24	0.25	9.0	0.05	--	0.01	0.03
140-099-06DBAB1	<.10	--	--	--	--	--	--
140-099-06DBAB2	<.10	--	--	--	--	--	--
140-099-06DBAB3	<.10	--	--	--	--	--	--
140-099-06DBAB8	<.10	--	--	--	--	--	--
140-099-06DBAD	<.10	--	--	--	--	--	--
140-099-06DBBA2	<.10	--	--	--	--	--	--
140-099-06DBBD	3.4	.03	.60	.03	0.09	.02	--
140-099-06DDDD	14	.39	2.5	.09	.28	.07	--
	24	2.1	4.2	.18	--	.18	--
140-099-07ABBB	.67	.11	.60	.02	--	<.01	--
140-099-07ADDD	<.10	.17	.60	.18	--	.06	--
140-099-07BDAA	.40	.12	2.2	.01	--	<.01	.01
	<.10	.24	1.8	.02	--	.01	--
140-099-07CDCD	.41	--	--	--	--	--	--
140-099-07DDDD2	19	--	--	.75	--	--	.04
140-100-10BABC4	17	.08	2.5	.05	.15	.02	--
140-100-10BACA	<.10	.91	1.3	.01	.03	.01	--
140-100-10BACB1	.13	--	--	--	--	--	--

Table 4.--Field and laboratory determination of physical properties and major-ion and nutrient concentrations of water samples from selected wells and springs--Continued

Township-range location number	Date	Time	Depth of well, total (feet)	Specific conductance, field (µS/cm at 25 °C)	Specific conductance, laboratory (µS/cm at 25 °C)	pH, field (standard units)	pH, laboratory (standard units)	Temperature, water (°C)
140-100-10BACB3	05-15-84	1230	25	5,600	5,000	6.6	7.2	9.0
140-100-10BACC	05-15-84	1320	33	5,800	5,690	7.1	7.4	9.0
140-100-10BACD	05-15-84	1345	30	2,200	2,070	5.9	6.6	9.0
140-100-10BBAD	05-15-84	0945	44	2,800	2,870	7.1	7.6	9.0
141-099-33DDDA	04-24-84	1030	65	590	624	9.6	9.7	9.0
142-099-23CDCA	08-09-84	1600	20	2,620	2,550	5.8	5.7	15.0

Table 4.--Field and laboratory determination of physical properties and major-ion and nutrient concentrations of water samples from selected wells and springs--Continued

Township-range location number	Hardness, total (mg/L as $CaCO_3$)	Alkalinity, total, laboratory (mg/L as $CaCO_3$)	Dissolved solids, calculated sum of constituents (mg/L)	Dissolved solids, residue at 180 °C (mg/L)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)
140-100-10BACB3	2,000	290	4,440	--	370	260
140-100-10BACC	1,000	640	4,550	--	220	110
140-100-10BACD	800	36	1,710	--	200	74
140-100-10BBAD	470	270	2,060	--	150	23
141-099-33DDDA	18	220	371	--	4.7	1.4
142-099-23CDCA	1,300	52	2,170	--	250	170

Table 4.--Field and laboratory determination of physical properties and major-ion and nutrient concentrations of water samples from selected wells and springs--Continued

Township-range location number	Sodium, dissolved (mg/L as Na)	Sodium-adsorption ratio	Potassium, dissolved (mg/L as K)	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Silica, dissolved (mg/L as SiO_2)	Nitrite plus nitrate, total (mg/L as N)
140-100-10BACB3	600	6.0	--	3,000	11	0.1	13	1.1
140-100-10BACC	1,100	15	--	2,700	6.0	.2	13	<.10
140-100-10BACD	170	3.0	--	1,200	4.3	.4	35	.40
140-100-10BBAD	500	10	--	1,200	7.2	.2	11	1.4
141-099-33DDDA	130	14	--	88	5.9	.5	10	<.10
142-099-23CDCA	140	2.0	--	1,500	13	.4	21	10

Table 4.--Field and laboratory determination of physical properties and major-ion and nutrient concentrations of water samples from selected wells and springs--Continued

Township-range location number	Nitrite plus nitrate, dissolved (mg/L as N)	Nitrogen, ammonia, total (mg/L as N)	Nitrogen, ammonia plus organic, total (mg/L as N)	Phosphorus, total (mg/L as P)	Phosphorus, total (mg/L as PO_4)	Phosphorus, ortho, total (mg/L as P)	Phosphorus, ortho, dissolved (mg/L as P)
140-100-10BACB3	1.1	0.11	1.1	0.05	0.15	0.02	--
140-100-10BACC	.12	.63	1.4	.06	.18	.02	--
140-100-10BACD	.39	.62	2.0	.70	2.1	.02	--
140-100-10BBAD	1.4	.49	1.1	<.01	--	.01	--
141-099-33DDDA	.11	.14	.50	.02	.06	.03	--
142-099-23CDCA	10	.07	1.2	.03	--	<.01	--

Table 5.--Trace-element analyses of water samples from selected wells and springs

[ug/L, micrograms per liter; <, less than; --, no data]

Township-range location number	Date	Time	Depth of well, total (feet)	Arsenic, dissolved (µg/L as As)	Barium, dissolved (µg/L as Ba)	Beryllium, dissolved (µg/L as Be)	Cadmium, dissolved (µg/L as Cd)
136-100-05ABCC	08-08-84	1310	19	<1	32	1	1
	11-08-84	1100	19	3	--	--	<1
136-100-05ACAA	11-09-84	0830	50	<1	--	--	<1
136-100-05ACBC	08-16-84	1200	16	170	51	3	4
	11-08-84	1000	16	160	53	<1	6
136-100-05ACDB1	08-15-84	0945	118	6	63	4	<3
	11-08-84	1400	118	6	45	<1	<3
136-100-05ACDD1	11-09-84	0730	34	18	--	--	<1
136-100-05BDAD	08-10-84	0950	45	130	54	3	3
	11-08-84	1500	45	52	25	<1	<3
136-100-05CAAA	11-08-84	1530	34	28	83	<1	<3
136-100-17ADD	01-23-85	1405	40	1	36	<.5	<1
136-100-20AAD	01-22-85	1410	45	<1	22	<.5	<1
136-100-22BAA	01-22-85	1330	58	<1	19	<.5	<1
137-100-04CDD	01-23-85	1200	40	38	32	<.5	<1

Table 5.--Trace-element analyses of water samples from selected wells and springs--Continued

Township-range location number	Chromium, dissolved (µg/L as Cr)	Cobalt, dissolved (µg/L as Co)	Copper, dissolved (µg/L as Cu)	Iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)	Manganese, dissolved (µg/L as Mn)
136-100-05ABCC	--	<3	<10	970	<10	410	820
	20	--	--	680	--	--	1,100
136-100-05ACAA	10	--	--	120	--	--	1,300
136-100-05ACBC	--	<9	<10	9,600	<10	90	420
	--	<3	<30	8,100	<30	110	420
136-100-05ACDB1	--	<9	<30	210	<30	160	39
	--	<9	<30	50	<30	40	55
136-100-05ACDD1	40	--	--	11,000	--	--	2,700
136-100-05BDAD	--	<3	<10	10,000	10	760	530
	--	<9	<30	150	<30	20	41
136-100-05CAAA	--	<9	<30	100	<30	10	30
136-100-17ADD	1	<3	70	<10	<10	40	4
136-100-20AAD	1	<3	<10	<10	<10	60	35
136-100-22BAA	0	<3	10	30	<10	70	90
137-100-04CDD	1	<3	<10	60	<10	50	200

Table 5.--Trace-element analyses of water samples from selected wells and springs--Continued

Township-range location number	Mercury, dissolved (µg/L as Hg)	Molybdenum, dissolved (µg/L as Mo)	Selenium, dissolved (µg/L as Se)	Strontium, dissolved (µg/L as Sr)	Vanadium, dissolved (µg/L as V)	Zinc, dissolved (µg/L as Zn)
136-100-05ABCC	--	<10	--	900	<6.0	20
	<0.1	5	--	--	--	20
136-100-05ACAA	<.1	23	--	--	--	40
136-100-05ACBC	--	800	--	350	36	30
	--	790	--	630	33	20
136-100-05ACDB1	--	<30	--	300	<18	40
	--	<30	--	300	<18	<10
136-100-05ACDD1	<.1	53	--	--	--	50
136-100-05BDAD	--	770	--	450	27	70
	--	80	--	60	<18	<10
136-100-05CAAA	--	<30	--	280	21	<10
136-100-17ADD	--	<10	--	650	<6.0	70
136-100-20AAD	--	<10	--	480	<6.0	10
136-100-22BAA	--	<10	--	420	<6.0	30
137-100-04CDD	--	<10	--	150	<6.0	10

Table 5.--Trace-element analyses of water samples from selected wells and springs--Continued

Township-range location number	Date	Time	Depth of well, total (feet)	Arsenic, dissolved (µg/L as As)	Barium, dissolved (µg/L as Ba)	Beryllium, dissolved (µg/L as Be)	Cadmium, dissolved (µg/L as Cd)
137-100-05CBDA	08-08-84	0850	17	5	58	1	<1
	11-06-84	1210	17	3	46	<1	2
137-100-05DACB1	07-25-84	1000	20	500	230	4	3
	11-07-84	1400	20	480	200	6	1
137-100-05DBDA1	08-01-84	1540	20	290	100	5	<1
	11-07-84	1230	20	320	80	<1	<3
137-100-05DBDA2	08-14-84	1400	43	3	--	--	2
	11-07-84	1430	43	2	--	--	<1
137-100-05DBDD1	08-01-84	1400	36	76	31	3	<1
	11-07-84	1100	36	48	24	<1	<3
137-100-05DBDD2	08-01-84	1230	21	1,600	120	2	4
	11-06-84	1400	21	1,500	130	<1	<3
137-100-08ABB	01-23-85	0930	1,790	1	79	<.5	<1
137-100-26CCA	01-23-85	1400	Spring	7	28	<.5	<1
137-100-28DDA	01-23-85	1245	Spring	1	39	<.5	<1
138-100-28ADA	01-22-85	1215	316	3	55	<.5	<1
140-099-06AAAA	04-24-84	1230	18	<1	32	<.5	<1
	11-13-84	1425	18	1	94	<1	<1
140-099-06ACCD2	05-17-84	1320	237	<1	46	2	<1
140-099-06ACCD3	05-16-84	1600	29	<1	84	<1	<1

Table 5.--Trace-element analyses of water samples from selected wells and springs--Continued

Township-range location number	Chromium, dissolved (µg/L as Cr)	Cobalt, dissolved (µg/L as Co)	Copper, dissolved (µg/L as Cu)	Iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)	Manganese, dissolved (µg/L as Mn)
137-100-05CBDA	--	<3	20	4,900	<10	30	53
	--	<3	20	3,000	<10	20	30
137-100-05DACB1	--	<3	<10	10	20	30	190
	--	<3	<10	7,200	<10	20	190
137-100-05DBDA1	--	<3	<10	5,500	<10	2,600	410
	--	<9	<30	4,200	<30	40	400
137-100-05DBDA2	<10	--	--	30	--	--	50
	40	--	--	220	--	--	110
137-100-05DBDD1	--	<3	<10	380	<10	180	160
	--	<9	<30	400	<30	20	160
137-100-05DBDD2	--	<3	<10	13,000	10	20	210
	--	<9	<30	13,000	30	30	240
137-100-08ABB	0	<3	<10	350	<10	50	11
137-100-26CCA	1	<3	210	220	<10	50	57
137-100-28DDA	1	<3	<10	410	<10	120	660
138-100-28ADA	1	<3	<10	70	<10	20	7
140-099-06AAAA	--	<3	<10	<10	20	40	48
	--	<3	<10	250	40	40	190
140-099-06ACCD2	--	<3	<10	70	<10	40	19
140-099-06ACCD3	--	<3	<10	10	<10	30	3

Table 5.--Trace-element analyses of water samples from selected wells and springs--Continued

Township-range location number	Mercury, dissolved (µg/L as Hg)	Molybdenum, dissolved (µg/L as Mo)	Selenium, dissolved (µg/L as Se)	Strontium, dissolved (µg/L as Sr)	Vanadium, dissolved (µg/L as V)	Zinc, dissolved (µg/L as Zn)
137-100-05CBDA	--	40	--	170	<6.0	120
	--	60	--	240	7.0	10
137-100-05DACB1	--	70	--	210	39	50
	--	40	--	240	42	10
137-100-05DBDA1	--	40	--	330	25	70
	--	60	--	290	26	<10
137-100-05DBDA2	<0.1	<1	--	--	--	<10
	<.1	5	--	--	--	20
137-100-05DBDD1	--	20	--	210	6.0	40
	--	<30	--	220	10	<10
137-100-05DBDD2	--	150	--	190	30	40
	--	70	--	220	27	<10
137-100-08ABB	--	<10	--	60	<6.0	20
137-100-26CCA	--	10	--	70	<6.0	10
137-100-28DDA	--	<10	--	1,700	<6.0	160
138-100-28ADA	--	<10	--	40	11	10
140-099-06AAAA	--	1,100	--	1,100	<6.0	40
	--	3,100	--	1,000	<6.0	10
140-099-06ACCD2	--	<10	--	80	<6.0	<10
140-099-06ACCD3	--	10	--	460	<6.0	10

Table 5.--Trace-element analyses of water samples from selected wells and springs--Continued

Township-range location number	Date	Time	Depth of well, total (feet)	Arsenic, dissolved (µg/L as As)	Barium, dissolved (µg/L as Ba)	Beryllium, dissolved (µg/L as Be)	Cadmium, dissolved (µg/L as Cd)
140-099-06ACCD4	10-30-86	1050	27	<1	33	<0.5	1
140-099-06ACCD12	10-28-86	1700	31	5	37	<.5	<1
140-099-06ACCD13	10-28-86	1600	36	5	48	<.5	<1
140-099-06ACDD	10-29-86	1200	32	8	150	<.5	<1
140-099-06ADCC	10-29-86	1300	29	46	41	<.5	<1
140-099-06BCAD	05-17-84	0920	20	14	200	<1	<1
140-099-06BDAB	05-17-84	1000	38	40	61	<1	<1
140-099-06BDBB1	06-06-84	0830	28	10	--	--	4
140-099-06BDCA1	05-17-84	1040	24	29	110	<1	<1
140-099-06CAAB	05-17-84	1140	30	11	34	<1	<1
140-099-06CABC1	06-07-84	1225	12	<1	27	5	4
140-099-06CABD	05-16-84	1330	32	20	84	<1	2
140-099-06CBBD1	06-07-84	1315	58	<1	--	--	<1
140-099-06CCCC	08-17-84	1300	15	1	--	--	2
	11-07-84	1700	15	8	--	--	<1
140-099-06DAAD	04-24-84	1340	30	2	37	<.5	<1
	11-13-84	1630	30	4	64	<1	1
140-099-06DABB1	06-07-84	1140	61	6	190	<1	<1
140-099-06DABB9	10-30-86	1530	34	27	23	<1	<3
140-099-06DABC	10-28-86	0955	27	57	46	<.5	<1

Table 5.--Trace-element analyses of water samples from selected wells and springs--Continued

Township-range location number	Chromium, dissolved (µg/L as Cr)	Cobalt, dissolved (µg/L as Co)	Copper, dissolved (µg/L as Cu)	Iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)	Manganese, dissolved (µg/L as Mn)
140-099-06ACCD4	<10	<3	<10	40	<10	50	1,100
140-099-06ACCD12	<10	<3	<10	20	<10	20	42
140-099-06ACCD13	<10	<3	<10	30	<10	20	51
140-099-06ACDD	<10	<3	<10	10	<10	10	32
140-099-06ADCC	<10	<3	<10	2,000	10	20	220
140-099-06BCAD	--	<3	<10	2,900	<10	60	250
140-099-06BDAB	--	<3	<10	10	<10	50	8
140-099-06BDBB1	60	--	--	2,600	--	--	23,000
140-099-06BDCA1	--	<3	<10	1,600	10	30	110
140-099-06CAAB	--	<3	<10	20	<10	40	6
140-099-06CABC1	--	80	20	70	<10	440	4,400
140-099-06CABD	--	<3	<10	10	<10	30	300
140-099-06CBBD1	20	--	--	30	--	--	490
140-099-06CCCC	40	--	--	120	--	--	1,200
	40	--	--	1,100	--	--	1,200
140-099-06DAAD	--	<3	<10	10	<10	130	45
	--	<3	<10	1,700	20	140	180
140-099-06DABB1	--	<3	<10	350	<10	20	180
140-099-06DABB9	<10	<9	<30	3,600	<30	30	340
140-099-06DABC	<10	<3	<10	40	<10	30	46

Table 5.--Trace-element analyses of water samples from selected wells and springs--Continued

Township-range location number	Mercury, dissolved (µg/L as Hg)	Molybdenum, dissolved (µg/L as Mo)	Selenium, dissolved (µg/L as Se)	Strontium, dissolved (µg/L as Sr)	Vanadium, dissolved (µg/L as V)	Zinc, dissolved (µg/L as Zn)
140-099-06ACCD4	--	10	4	560	<6.0	10
140-099-06ACCD12	--	90	<1	120	<6.0	<10
140-099-06ACCD13	--	40	10	140	<6.0	<10
140-099-06ACDD	--	90	1	130	<6.0	<10
140-099-06ADCC	--	30	50	160	<6.0	10
140-099-06BCAD	--	10	--	570	<6.0	20
140-099-06BDAB	--	280	--	220	<6.0	10
140-099-06BDBB1	<1.0	14	--	--	--	80
140-099-06BDCA1	--	70	--	170	<6.0	20
140-099-06CAAB	--	60	--	220	<6.0	10
140-099-06CABC1	--	30	--	1,900	<6.0	380
140-099-06CABD	--	770	--	380	<6.0	30
140-099-06CBBD1	.2	15	--	--	--	30
140-099-06CCCC	<.1	10	--	--	--	50
	<.1	10	--	--	--	40
140-099-06DAAD	--	40	--	1,100	<6.0	20
	--	40	--	1,200	<6.0	10
140-099-06DABB1	--	20	--	170	<6.0	30
140-099-06DABB9	--	<30	<1	120	<18	30
140-099-06DABC	--	20	380	130	<6.0	<10

Table 5.--Trace-element analyses of water samples from selected wells and springs--Continued

Township-range location number	Date	Time	Depth of well, total (feet)	Arsenic, dissolved (µg/L as As)	Barium, dissolved (µg/L as Ba)	Beryllium, dissolved (µg/L as Be)	Cadmium, dissolved (µg/L as Cd)
140-099-06DABD	06-07-84	0930	18	<1	--	--	<1
140-099-06DBAB1	10-28-86	1315	32	14	46	<0.5	<1
140-099-06DBAB2	10-29-86	1025	31	1	83	<.5	<1
140-099-06DBAB3	10-30-86	1215	31	1	36	<.5	<1
140-099-06DBAB8	10-30-86	1330	29	17	27	<1	4
140-099-06DBAD	10-28-86	1130	36	32	76	<.5	<1
140-099-06DBBA2	10-28-86	1440	36	30	57	<.5	<1
140-099-06DBBD	05-17-84	1230	39	16	59	<1	<1
140-099-06DDDD	04-24-84	1420	23	4	18	.5	<1
	11-13-84	1520	23	13	44	<1	<1
140-099-07ABBB	08-15-84	1400	57	<1	26	<1	<1
140-099-07ADDD	08-15-84	1240	50	50	67	<1	<1
140-099-07BDAA	08-15-84	1300	23	6	--	--	3
	11-06-84	1700	23	<1	--	--	<1
140-099-07DDDD2	08-17-84	1430	20	5	--	--	2
140-100-10BABC4	05-15-84	1145	37	<1	28	3	7
140-100-10BACA	05-15-84	1450	37	<1	27	1	2
140-100-10BACB1	08-13-84	1600	26	--	--	--	--
140-100-10BACB3	05-15-84	1230	25	<1	<2	2	2
140-100-10BACC	05-15-84	1320	33	<1	53	2	2

Table 5.--Trace-element analyses of water samples from selected wells and springs--Continued

Township-range location number	Chromium, dissolved (µg/L as Cr)	Cobalt, dissolved (µg/L as Co)	Copper, dissolved (µg/L as Cu)	Iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)	Manganese, dissolved (µg/L as Mn)
140-099-06DABD	210	--	--	70	--	--	30
140-099-06DBAB1	<10	<3	<10	330	<10	30	180
140-099-06DBAB2	<10	3	<10	60	<10	40	2,700
140-099-06DBAB3	<10	<3	<10	170	<10	40	3,700
140-099-06DBAB8	<10	<9	<30	12,000	40	90	20,000
140-099-06DBAD	<10	<3	<10	760	<10	30	170
140-099-06DBBA2	<10	<3	<10	560	10	30	190
140-099-06DBBD	--	<3	<10	10	<10	30	33
140-099-06DDDD	--	<3	<10	10	<10	30	1
	--	<3	<10	40	<10	40	11
140-099-07ABBB	--	<3	<10	20	<10	40	1
140-099-07ADDD	--	<3	<10	170	<10	30	430
140-099-07BDAA	20	--	--	280	--	--	270
	20	--	--	450	--	--	310
140-099-07DDDD2	20	--	--	320	--	--	200
140-100-10BABC4	--	30	90	6,500	<10	270	770
140-100-10BACA	--	10	<10	3,500	30	270	2,500
140-100-10BACB1	--	--	--	100	--	--	--
140-100-10BACB3	--	9	30	1,600	<10	270	360
140-100-10BACC	--	60	110	9,800	<10	250	2,500

Table 5.--Trace-element analyses of water samples from selected wells and springs--Continued

Township-range location number	Mercury, dissolved (µg/L as Hg)	Molybdenum, dissolved (µg/L as Mo)	Selenium, dissolved (µg/L as Se)	Strontium, dissolved (µg/L as Sr)	Vanadium, dissolved (µg/L as V)	Zinc, dissolved (µg/L as Zn)
140-099-06DABD	0.8	75	--	--	--	20
140-099-06DBAB1	--	<10	<1	190	<6.0	10
140-099-06DBAB2	--	90	<1	440	<6.0	10
140-099-06DBAB3	--	20	<1	500	<6.0	10
140-099-06DBAB8	--	90	<1	1,200	<18	80
140-099-06DBAD	--	10	<1	180	<6.0	<10
140-099-06DBBA2	--	50	24	190	<6.0	<10
140-099-06DBBD	--	50	--	220	<6.0	<10
140-099-06DDDD	--	<10	--	190	9.0	10
	--	40	--	360	<6.0	<10
140-099-07ABBB	--	730	--	500	<6.0	20
140-099-07ADDD	--	260	--	310	<6.0	<10
140-099-07BDAA	<.1	9	--	--	--	100
	<.1	1	--	--	--	100
140-099-07DDDD2	<.1	10	--	--	--	40
140-100-10BABC4	--	130	--	2,600	<6.0	250
140-100-10BACA	--	10	--	4,200	<6.0	60
140-100-10BACB1	--	3,000	--	--	--	10
140-100-10BACB3	--	280	--	2,700	<6.0	70
140-100-10BACC	--	210	--	2,800	<6.0	190

Table 5.--Trace-element analyses of water samples from selected wells and springs--Continued

Township-range location number	Date	Time	Depth of well, total (feet)	Arsenic, dissolved (µg/L as As)	Barium, dissolved (µg/L as Ba)	Beryllium, dissolved (µg/L as Be)	Cadmium, dissolved (µg/L as Cd)
140-100-10BACD	05-15-84	1345	30	<1	43	<1	4
140-100-10BBAD	05-15-84	0945	44	2	28	2	3
141-099-33DDDA	04-24-84	1030	65	2	16	1	<1
142-099-23CDCA	08-09-84	1600	20	<1	42	<2	<3

Table 5.--Trace-element analyses of water samples from selected wells and springs--Continued

Township-range location number	Chromium, dissolved (µg/L as Cr)	Cobalt, dissolved (µg/L as Co)	Copper, dissolved (µg/L as Cu)	Iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)	Manganese, dissolved (µg/L as Mn)
140-100-10BACD	--	50	<10	460	<10	120	2
140-100-10BBAD	--	30	60	3,000	<10	120	470
141-099-33DDDA	--	<3	<10	30	<10	20	1
142-099-23CDCA	--	10	<30	160	<10	90	220

Table 5.--Trace-element analyses of water samples from selected wells and springs--Continued

Township-range location number	Mercury, dissolved (µg/L as Hg)	Molybdenum, dissolved (µg/L as Mo)	Selenium, dissolved (µg/L as Se)	Strontium, dissolved (µg/L as Sr)	Vanadium, dissolved (µg/L as V)	Zinc, dissolved (µg/L as Zn)
140-100-10BACD	--	<10	--	530	<6.0	180
140-100-10BBAD	--	200	--	1,400	<6.0	100
141-099-33DDDA	--	40	--	60	<6.0	20
142-099-23CDCA	--	<30	--	870	<18	50

Table 6.--Radiochemical analyses of water samples from selected wells and springs

[µg/L, micrograms per liter; pCi/L, picocuries per liter; <, less than; --, no data]

Township-range location number	Date	Time	Depth of well, total (feet)	Alpha, gross dissolved as uranium natural (µg/L)	Alpha, gross suspended total as uranium natural (µg/L)	Beta, gross dissolved as cesium-137 (pCi/L)
136-100-05ABCC	08-08-84	1310	19	<110	2.4	<69
	11-08-84	1100	19	320	3.6	<89
136-100-05ACBC	08-16-84	1200	16	450	81	140
	11-08-84	1000	16	280	130	68
136-100-05ACDB1	08-15-84	0945	118	<100	26	<69
	11-08-84	1400	118	<96	69	<66
136-100-05ACDB3	06-01-84	1000	40	--	--	--
136-100-05ACDB4	06-01-84	1000	30	--	--	--
136-100-05ACDB5	06-01-84	1000	20	--	--	--
136-100-05ACDB6	06-01-84	1000	10	--	--	--
136-100-05ACDB7	06-01-84	1000	5.0	--	--	--
136-100-05ACDD2	06-01-84	1000	20	--	--	--
136-100-05ACDD3	06-01-84	1000	10	--	--	--
136-100-05ACDD4	06-01-84	1000	5.0	--	--	--
136-100-05BDAD	08-10-84	0950	45	550	110	160

Table 6.--Radiochemical analyses of water samples from selected wells and springs--Continued

Township-range location number	Beta, gross suspended total as cesium-137 (pCi/L)	Beta, gross dissolved as strontium/ yttrium-90 (pCi/L)	Beta, gross suspended total as strontium/ yttrium-90 (pCi/L)	Radium-226, dissolved planchet count (pCi/L)	Radon-222, total (pCi/L)	Uranium, natural dissolved (µg/L)
136-100-05ABCC	13	<59	12	<0.1	--	51
	42	<77	39	.2	--	290
136-100-05ACBC	31	120	29	20	--	160
	38	59	32	15	--	140
136-100-05ACDB1	14	<59	12	.6	--	13
	33	<57	29	.7	--	16
136-100-05ACDB3	--	--	--	--	9.7	--
136-100-05ACDB4	--	--	--	--	170	--
136-100-05ACDB5	--	--	--	--	870	--
136-100-05ACDB6	--	--	--	--	1,100	--
136-100-05ACDB7	--	--	--	--	220	--
136-100-05ACDD2	--	--	--	--	770	--
136-100-05ACDD3	--	--	--	--	1,200	--
136-100-05ACDD4	--	--	--	--	1,900	--
136-100-05BDAD	78	140	73	8.6	--	260

Table 6.--Radiochemical analyses of water samples from selected wells and springs--Continued

Township-range location number	Date	Time	Depth of well, total (feet)	Alpha, gross dissolved as uranium natural (µg/L)	Alpha, gross suspended total as uranium natural (µg/L)	Beta, gross dissolved as cesium-137 (pCi/L)
136-100-05BDAD	11-08-84	1500	45	130	16	<32
136-100-05CAAA	11-08-84	1530	34	210	52	33
136-100-17ADD	01-18-84	1000	40	<40	<.4	<21
136-100-20AAD	01-18-84	1320	45	<26	<.4	<15
136-100-22BAA	01-18-84	1410	58	<40	<.4	<25
137-100-04CDD	01-18-84	1100	40	49	1.6	23
137-100-05CBCA1	06-05-84	1000	20	--	--	--
137-100-05CBCA4	06-05-84	1000	10	--	--	--
137-100-05CBCA5	06-05-84	1000	5.0	--	--	--
137-100-05CBDA	08-08-84	0850	17	150	73	56
	11-06-84	1210	17	160	110	53
137-100-05DACB1	07-25-84	1000	20	5,100	7,100	1,400
	11-07-84	1400	20	5,600	1,700	1,400
137-100-05DACB2	05-23-84	1000	15	--	--	--
137-100-05DACB3	05-23-84	1000	10	--	--	--
137-100-05DACB4	05-23-84	1000	5.0	--	--	--
137-100-05DBDA1	08-01-84	1540	20	2,100	4,500	640
	11-07-84	1230	20	2,100	2,700	600
137-100-05DBDA2	08-14-84	1400	43	340	27	<91
	11-07-84	1430	43	360	36	<87

Table 6.--Radiochemical analyses of water samples from selected wells and springs--Continued

Township-range location number	Beta, gross suspended total as cesium-137 (pCi/L)	Beta, gross dissolved as strontium/ yttrium-90 (pCi/L)	Beta, gross suspended total as strontium/ yttrium-90 (pCi/L)	Radium-226, dissolved planchet count (pCi/L)	Radon-222, total (pCi/L)	Uranium, natural dissolved (µg/L)
136-100-05BDAD	12	<27	11	<0.6	--	32
136-100-05CAAA	44	28	38	.7	--	87
136-100-17ADD	.7	<18	.7	<.1	--	31
136-100-20AAD	<.4	<13	<.4	<.1	--	7.7
136-100-22BAA	1.3	<22	1.3	<.1	--	15
137-100-04CDD	.9	20	.9	4.8	--	5.1
137-100-05CBCA1	--	--	--	--	49	--
137-100-05CBCA4	--	--	--	--	11,000	--
137-100-05CBCA5	--	--	--	--	950	--
137-100-05CBDA	42	48	39	1.5	--	80
	45	46	40	1.3	--	66
137-100-05DACB1	2,700	1,200	2,400	200	--	820
	760	1,200	710	330	--	750
137-100-05DACB2	--	--	--	--	13	--
137-100-05DACB3	--	--	--	--	54	--
137-100-05DACB4	--	--	--	--	490	--
137-100-05DBDA1	2,100	550	1,800	36	--	780
	1,200	510	1,100	31	--	580
137-100-05DBDA2	56	<78	48	.5	--	200
	53	<75	45	1.2	--	200

Table 6.--Radiochemical analyses of water samples from selected wells and springs--Continued

Township-range location number	Date	Time	Depth of well, total (feet)	Alpha, gross dissolved as uranium natural (µg/L)	Alpha, gross suspended total as uranium natural (µg/L)	Beta, gross dissolved as cesium-137 (pCi/L)
137-100-05DBDA3	05-24-84	1000	20	--	--	--
137-100-05DBDA4	05-24-84	1000	10	--	--	--
137-100-05DBDA5	05-24-84	1000	5.0	--	--	--
137-100-05DBDD1	08-01-84	1400	36	1,500	550	540
	11-07-84	1100	36	1,600	140	620
137-100-05DBDD2	08-01-84	1230	21	11,000	6,100	1,400
	11-06-84	1400	21	12,000	1,300	1,300
137-100-08DAA	01-18-84	1145	107	17	1.4	<5.9
137-100-26CCA	01-23-85	1400	Spring	63	1.9	21
137-100-28DDA	01-23-85	1245	Spring	<37	1.1	<19
138-100-23DDD	01-17-84	1420	25	<17	<.4	<9.4
138-100-28ADA	01-17-84	1500	316	<27	<.5	<15
140-099-04CBB	01-19-84	1400	30	80	4.7	16
140-099-06AAAA	04-24-84	1230	18	13,000	77	2,800
	11-13-84	1425	18	12,000	90	2,000
140-099-06ACCD2	05-17-84	1320	237	49	6.0	31
140-099-06ACCD3	05-16-84	1600	29	57	18	19
140-099-06ACCD4	10-30-86	1050	27	310	--	48
140-099-06ACCD12	10-28-86	1700	31	110	--	17
140-099-06ACCD13	10-28-86	1600	36	69	--	28

Table 6.--Radiochemical analyses of water samples from selected wells and springs--Continued

Township-range location number	Beta, gross suspended total as cesium-137 (pCi/L)	Beta, gross dissolved as strontium/ yttrium-90 (pCi/L)	Beta, gross suspended total as strontium/ yttrium-90 (pCi/L)	Radium-226, dissolved planchet count (pCi/L)	Radon-222, total (pCi/L)	Uranium, natural dissolved (µg/L)
137-100-05DBDA3	--	--	--	--	1,300	--
137-100-05DBDA4	--	--	--	--	800	--
137-100-05DBDA5	--	--	--	--	28	--
137-100-05DBDD1	290	470	270	54	--	150
	84	540	76	60	--	120
137-100-05DBDD2	1,100	1,200	1,000	320	--	530
	240	1,200	230	310	--	540
137-100-08DAA	.7	<5.0	.7	.7	--	1.9
137-100-26CCA	1.2	18	1.1	12	--	2.8
137-100-28DDA	1.5	<16	1.4	.1	--	3.7
138-100-23DDD	.4	<8.1	.4	<.1	--	8.3
138-100-28ADA	<.7	<13	<.6	.2	--	1.3
140-099-04CBB	5.5	14	5.3	.9	--	52
140-099-06AAAA	1,500	2,400	1,400	.4	--	13,000
	1,200	1,700	1,000	1.0	--	11,000
140-099-06ACCD2	3.2	26	2.8	.7	--	5.4
140-099-06ACCD3	17	16	15	1.1	--	48
140-099-06ACCD4	--	32	--	<.1	--	210
140-099-06ACCD12	--	15	--	24	--	21
140-099-06ACCD13	--	21	--	4.6	--	65

Table 6.--Radiochemical analyses of water samples from selected wells and springs--Continued

Township-range location number	Date	Time	Depth of well, total (feet)	Alpha, gross dissolved as uranium natural (µg/L)	Alpha, gross suspended total as uranium natural (µg/L)	Beta, gross dissolved as cesium-137 (pCi/L)
140-099-06ACDD	10-29-86	1200	32	110	--	18
140-099-06ADCC	10-29-86	1300	29	38	--	22
140-099-06BACD	10-27-86	1220	38	310	--	62
140-099-06BCAD	05-17-84	0920	20	1,500	60	310
140-099-06BDAB	05-17-84	1000	38	500	12	110
140-099-06BDBA1	10-29-86	1320	33	210	--	55
140-099-06BDBA2	10-29-86	1400	31	260	--	65
140-099-06BDBB1	06-06-84	0830	28	<2,500	170	<880
140-099-06BDCA1	05-17-84	1040	24	300	84	98
140-099-06CAAB	05-17-84	1140	30	17	30	11
140-099-06CABC1	06-07-84	1225	12	<150	4.1	<99
140-099-06CABD	05-16-84	1330	32	840	190	190
140-099-06CBBD1	06-07-84	1315	58	630	13	<120
140-099-06CCCC	11-07-84	1700	15	<730	3.9	<400
140-099-06CCD4	05-17-84	1000	5.0	--	--	--
140-099-06CCD5	05-17-84	1000	20	--	--	--
140-099-06CCD6	05-17-84	1000	10	--	--	--
140-099-06DAAD	04-24-84	1340	30	830	4.9	160
	11-13-84	1630	30	1,000	2.5	170
140-099-06DABB1	06-07-84	1140	61	80	5.7	16

Table 6.--Radiochemical analyses of water samples from selected wells and springs--Continued

Township-range location number	Beta, gross suspended total as cesium-137 (pCi/L)	Beta, gross dissolved as strontium/ yttrium-90 (pCi/L)	Beta, gross suspended total as strontium/ yttrium-90 (pCi/L)	Radium-226, dissolved planchet count (pCi/L)	Radon-222, total (pCi/L)	Uranium, natural dissolved (µg/L)
140-099-06ACDD	--	13	--	5.4	--	83
140-099-06ADCC	--	16	--	8.1	--	2.6
140-099-06BACD	--	43	--	10	--	310
140-099-06BCAD	18	270	15	190	--	2.3
140-099-06BDAB	71	92	64	6.3	--	500
140-099-06BDBA1	--	36	--	2.1	--	200
140-099-06BDBA2	--	43	--	1.6	--	250
140-099-06BDBB1	270	<760	230	360	--	890
140-099-06BDCA1	22	84	19	50	--	6.4
140-099-06CAAB	12	9.2	10	1.3	--	11
140-099-06CABC1	3.4	<85	3.1	5.0	--	35
140-099-06CABD	130	170	120	56	--	220
140-099-06CBBD1	67	<110	58	.7	--	490
140-099-06CCCC	4.8	<340	4.2	1.6	--	21
140-099-06CCD4	--	--	--	--	51,000	--
140-099-06CCD5	--	--	--	--	51,000	--
140-099-06CCD6	--	--	--	--	29,000	--
140-099-06DAAD	45	140	40	.6	--	860
	34	140	32	1.4	--	930
140-099-06DABB1	3.3	14	3.1	11	--	.7

Table 6.--Radiochemical analyses of water samples from selected wells and springs--Continued

Township-range location number	Date	Time	Depth of well, total (feet)	Alpha, gross dissolved as uranium natural (µg/L)	Alpha, gross suspended total as uranium natural (µg/L)	Beta, gross dissolved as cesium-137 (pCi/L)
140-099-06DABB3	05-22-84	1000	35	--	--	--
140-099-06DABB4	05-22-84	1000	20	--	--	--
140-099-06DABB5	05-22-84	1000	10	--	--	--
140-099-06DABB9	10-30-86	1530	34	3.8	--	5.0
140-099-06DABC	10-28-86	0955	27	47	--	42
140-099-06DABD	06-07-84	0930	18	<160	4.0	200
140-099-06DBAB1	10-28-86	1315	32	89	--	20
140-099-06DBAB2	10-29-86	1025	31	740	--	150
140-099-06DBAB3	10-30-86	1215	31	220	--	53
140-099-06DBAB8	10-30-86	1330	29	610	--	140
140-099-06DBAD	10-28-86	1130	36	83	--	18
140-099-06DBBA2	10-28-86	1440	36	610	--	170
140-099-06DBBD	05-17-84	1230	39	110	18	21
140-099-06DDDD	04-24-84	1420	23	820	8.0	170
	11-13-84	1520	23	960	5.7	200
140-099-07ABBB	08-15-84	1400	57	<16	40	13
140-099-07ABBD	06-05-84	1000	5.0	--	--	--
140-099-07ABCA2	05-21-84	1000	30	--	--	--
140-099-07ABCA3	05-21-84	1000	20	--	--	--
140-099-07ABCA4	05-21-84	1000	10	--	--	--

Table 6.--Radiochemical analyses of water samples from selected wells and springs--Continued

Township-range location number	Beta, gross suspended total as cesium-137 (pCi/L)	Beta, gross dissolved as strontium/ yttrium-90 (pCi/L)	Beta, gross suspended total as strontium/ yttrium-90 (pCi/L)	Radium-226, dissolved planchet count (pCi/L)	Radon-222, total (pCi/L)	Uranium, natural dissolved (µg/L)
140-099-06DABB3	--	--	--	--	3,100	--
140-099-06DABB4	--	--	--	--	4,100	--
140-099-06DABB5	--	--	--	--	6,900	--
140-099-06DABB9	--	3.8	--	1.4	--	0.7
140-099-06DABC	--	31	--	8.9	--	5.7
140-099-06DABD	3.8	180	3.3	1.5	--	<.4
140-099-06DBAB1	--	15	--	12	--	38
140-099-06DBAB2	--	100	--	.9	--	680
140-099-06DBAB3	--	35	--	<.1	--	200
140-099-06DBAB8	--	94	--	3.7	--	510
140-099-06DBAD	--	12	--	20	--	6.9
140-099-06DBBA2	--	120	--	19	--	710
140-099-06DBBD	18	18	16	9.4	--	71
140-099-06DDDD	85	150	78	1.9	--	860
	81	170	78	2.7	--	650
140-099-07ABBB	19	11	17	.2	--	.4
140-099-07ABBD	--	--	--	--	220	--
140-099-07ABCA2	--	--	--	--	9,100	--
140-099-07ABCA3	--	--	--	--	8,700	--
140-099-07ABCA4	--	--	--	--	6,800	--

Table 6.--Radiochemical analyses of water samples from selected wells and springs--Continued

Township-range location number	Date	Time	Depth of well, total (feet)	Alpha, gross dissolved as uranium natural (µg/L)	Alpha, gross suspended total as uranium natural (µg/L)	Beta, gross dissolved as cesium-137 (pCi/L)
140-099-07ADDD	08-15-84	1240	50	550	55	140
140-099-07BDAA	08-15-84	1300	23	<230	1.7	<110
	11-06-84	1700	23	<220	<.4	<110
140-099-07DDDD2	08-17-84	1430	20	<340	10	<150
140-099-08DAA	01-19-84	1430	40	130	.7	30
140-100-01ABB	01-19-84	1200	40	<32	2.7	<18
140-100-10BABC1	04-17-84	1000	35	--	--	--
140-100-10BABC2	04-17-84	1000	25	--	--	--
140-100-10BABC3	04-17-84	1000	10	--	--	--
140-100-10BABC4	05-15-84	1145	37	420	20	91
140-100-10BACA	05-15-84	1450	37	120	2.4	67
140-100-10BACB3	05-15-84	1230	25	460	12	150
140-100-10BACC	05-15-84	1320	33	130	27	69
140-100-10BACD	05-15-84	1345	30	38	93	21
140-100-10BBAD	05-15-84	0945	44	51	.7	35
140-100-10BDBA1	04-18-84	1000	20	--	--	--
140-100-10BDBA2	04-18-84	1000	10	--	--	--
140-100-10BDBA3	04-18-84	1000	5.0	--	--	--
140-100-22AAA	01-19-84	1100	90	<32	<.8	<21
140-100-22DAA	01-19-84	1130	26	<27	2.0	<15

Table 6.--Radiochemical analyses of water samples from selected wells and springs--Continued

Township-range location number	Beta, gross suspended total as cesium-137 (pCi/L)	Beta, gross dissolved as strontium/ yttrium-90 (pCi/L)	Beta, gross suspended total as strontium/ yttrium-90 (pCi/L)	Radium-226, dissolved planchet count (pCi/L)	Radon-222, total (pCi/L)	Uranium, natural dissolved (µg/L)
140-099-07ADDD	98	120	84	8.6	--	470
140-099-07BDAA	5.3	<95	4.7	.9	--	99
	.5	<97	.4	.9	--	43
140-099-07DDDD2	17	<130	15	2.2	--	130
140-099-08DAA	7.4	26	7.0	.3	--	80
140-100-01ABB	.6	<15	.5	.7	--	6.0
140-100-10BABC1	--	--	--	--	3.4	--
140-100-10BABC2	--	--	--	--	6,300	--
140-100-10BABC3	--	--	--	--	6,000	--
140-100-10BABC4	71	78	61	.8	--	370
140-100-10BACA	2.1	58	1.8	1.9	--	2.8
140-100-10BACB3	39	130	34	2.6	--	330
140-100-10BACC	18	59	15	.9	--	48
140-100-10BACD	46	18	40	1.2	--	2.3
140-100-10BBAD	.8	30	.7	.3	--	2.9
140-100-10BDBA1	--	--	--	--	42	--
140-100-10BDBA2	--	--	--	--	2,600	--
140-100-10BDBA3	--	--	--	--	2,000	--
140-100-22AAA	1.2	<18	1.1	.1	--	5.1
140-100-22DAA	20	<13	18	.2	--	<.5

Table 6.--Radiochemical analyses of water samples from selected wells and springs--Continued

Township-range location number	Date	Time	Depth of well, total (feet)	Alpha, gross dissolved as uranium natural (µg/L)	Alpha, gross suspended total as uranium natural (µg/L)	Beta, gross dissolved as cesium-137 (pCi/L)
141-099-03BAD	02-29-84	--	50	<9.4	<0.4	<6.3
141-099-27DDA	01-19-84	1330	50	230	.9	66
141-099-33DDDA	04-24-84	1030	65	30	1.9	<5.5
141-099-35BAB	01-19-84	1300	20	590	1.2	140
142-098-18BBC	02-29-84	--	60	29	<.4	15
142-099-10ABB	03-02-84	--	80	150	1.2	37
142-099-12BDD	02-29-84	--	45	<6.9	<.4	<4.6
142-099-15DCD	03-02-84	--	20	220	10	71
142-099-23CDCA	08-09-84	1600	20	<51	<.4	<26
142-099-23CDCB2	04-25-84	1000	58	--	--	--
142-099-23CDCB3	04-25-84	1000	30	--	--	--
142-099-23CDCB4	04-25-84	1000	20	--	--	--
142-099-23CDCB5	04-25-84	1000	10	--	--	--
142-099-24ABC	02-29-84	--	22	17	.6	<5.6
142-099-25ADC	02-29-84	--	22	29	<.4	22
142-099-26BACC3	04-23-84	1000	30	--	--	--
142-099-26BACC4	04-23-84	1000	20	--	--	--
142-099-26BACC5	04-23-84	1000	10	--	--	--
142-099-26BACC6	04-23-84	1000	5.0	--	--	--
142-099-26BBAA5	04-25-84	1000	20	--	--	--

Table 6.--Radiochemical analyses of water samples from selected wells and springs--Continued

Township-range location number	Beta, gross suspended total as cesium-137 (pCi/L)	Beta, gross dissolved as strontium/ yttrium-90 (pCi/L)	Beta, gross suspended total as strontium/ yttrium-90 (pCi/L)	Radium-226, dissolved planchet count (pCi/L)	Radon-222, total (pCi/L)	Uranium, natural dissolved (µg/L)
141-099-03BAD	<0.4	<5.4	<0.4	0.1	--	<0.5
141-099-27DDA	14	57	13	1.1	--	230
141-099-33DDDA	4.5	<4.7	4.2	.3	--	20
141-099-35BAB	17	120	17	.3	--	520
142-098-18BBC	<.4	13	<.4	.4	--	34
142-099-10ABB	9.7	32	9.1	.9	--	120
142-099-12BDD	<.4	<4.0	<.4	.2	--	.8
142-099-15DCD	6.4	61	5.7	28	--	.8
142-099-23CDCA	<.4	<22	<.4	.7	--	1.5
142-099-23CDCB2	--	--	--	--	280	--
142-099-23CDCB3	--	--	--	--	3,100	--
142-099-23CDCB4	--	--	--	--	6,000	--
142-099-23CDCB5	--	--	--	--	6,900	--
142-099-24ABC	1.9	<4.9	1.8	.6	--	12
142-099-25ADC	<.4	19	<.4	.9	--	15
142-099-26BACC3	--	--	--	--	4,200	--
142-099-26BACC4	--	--	--	--	4,800	--
142-099-26BACC5	--	--	--	--	6,900	--
142-099-26BACC6	--	--	--	--	6,900	--
142-099-26BBAA5	--	--	--	--	10,000	--

Table 6.--Radiochemical analyses of water samples from selected wells and springs--Continued

Township-range location number	Date	Time	Depth of well, total (feet)	Alpha, gross dissolved as uranium natural (µg/L)	Alpha, gross suspended total as uranium natural (µg/L)	Beta, gross dissolved as cesium-137 (pCi/L)
142-099-26BBAA6	04-25-84	1000	10	--	--	--
142-099-26BBAA7	04-25-84	1000	5.0	--	--	--
142-099-28ABA	03-02-84	1000	35	77	0.5	21
142-099-28DCC	03-02-84	1000	20	110	9.6	27
142-099-35DDD	02-29-84	1000	70	<9.6	.6	<6.2

Table 6.--Radiochemical analyses of water samples from selected wells and springs--Continued

Township-range location number	Beta, gross suspended total as cesium-137 (pCi/L)	Beta, gross dissolved as strontium/ yttrium-90 (pCi/L)	Beta, gross suspended total as strontium/ yttrium-90 (pCi/L)	Radium-226, dissolved planchet count (pCi/L)	Radon-222, total (pCi/L)	Uranium, natural dissolved (µg/L)
142-099-26BBAA6	--	--	--	--	11,000	--
142-099-26BBAA7	--	--	--	--	4,300	--
142-099-28ABA	3.0	18	2.8	4.6	--	30
142-099-28DCC	1.5	23	1.3	9.9	--	.9
142-099-35DDD	.6	<5.3	.5	.2	--	2.0

Table 7.--Grain-size analyses of rock samples from selected wells and test holes

Township-range location number	Date	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Percent finer than 0.062 millimeter	Percent finer than 0.125 millimeter	Percent finer than 0.250 millimeter	Percent finer than 0.500 millimeter
136-100-05ACAA	05-24-84	0	5.0	24	48	77	98
	05-24-84	10	15	6	18	41	98
	05-24-84	20	25	26	66	94	99
	05-24-84	30	35	5	10	18	25
	05-24-84	40	45	30	42	63	99
137-100-05CBDA	06-04-84	0	5.0	2	9	39	99
	06-04-84	10	15	7	13	28	56
137-100-05DBDD1	05-23-84	0	5.0	4	21	44	97
	05-23-84	10	15	2	6	25	96
	05-23-84	20	25	2	4	17	99
	05-23-84	30	35	4	7	12	23
140-099-06ACCD1	12-09-83	0	5.0	4	13	45	95
	12-09-83	10	15	2	31	83	99
	12-09-83	20	25	5	13	70	88
	12-09-83	30	35	29	42	66	97
	12-09-83	40	45	23	37	61	98
	12-09-83	50	55	11	19	36	64
	12-09-83	60	65	17	28	49	90
	12-09-83	70	75	21	34	57	93
	12-09-83	80	85	8	16	27	42

Table 7.--Grain-size analyses of rock samples from selected wells and test holes--Continued

Township-range location number	Percent finer than 1.00 millimeter	Percent finer than 2.00 millimeter	Percent finer than 4.00 millimeter	Percent finer than 8.00 millimeter	Percent finer than 16.0 millimeter	Percent finer than 32.0 millimeter
136-100-05ACAA	100	100	100	100	100	100
	99	99	99	99	100	100
	99	100	100	100	100	100
	33	43	60	88	100	100
	99	100	100	100	100	100
137-100-05CBDA	100	100	100	100	100	100
	68	71	73	75	77	100
137-100-05DBDD1	100	100	100	100	100	100
	99	99	100	100	100	100
	100	100	100	100	100	100
	36	57	83	100	100	100
140-099-06ACCD1	100	100	100	100	100	100
	100	100	100	100	100	100
	91	91	92	94	97	100
	97	98	98	98	100	100
	99	99	99	100	100	100
	94	95	97	98	100	100
	100	100	100	100	100	100
	99	100	100	100	100	100
	61	91	99	100	100	100

Table 7.--Grain-size analyses of rock samples from selected wells and test holes--Continued

Township-range location number	Date	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Percent finer than 0.062 millimeter	Percent finer than 0.125 millimeter	Percent finer than 0.250 millimeter	Percent finer than 0.500 millimeter
140-099-06ACCD1	12-09-83	90	95	2	4	10	16
	12-09-83	100	105	12	19	32	50
	12-09-83	110	115	11	26	53	81
	12-09-83	120	125	29	38	57	87
	12-09-83	130	135	23	45	66	99
	12-09-83	140	145	11	34	77	89
	12-09-83	150	155	38	52	68	95
	12-09-83	160	165	16	28	48	81
	12-09-83	170	175	5	9	18	31
	12-09-83	180	185	1	3	33	91
	12-09-83	190	195	4	10	37	75
	12-09-83	200	205	3	11	42	97
	12-09-83	210	215	3	16	62	94
	12-09-83	220	225	2	8	30	93
	12-09-83	230	235	3	10	53	86
140-099-07DDDD1	05-16-84	0	5.0	22	69	86	99
	05-16-84	10	15	100	40	79	98
	05-16-84	20	25	17	24	44	98
	05-16-84	30	35	6	20	56	97
	05-16-84	40	45	13	22	41	68

Table 7.--Grain-size analyses of rock samples from selected wells and test holes--Continued

Township-range location number	Percent finer than 1.00 millimeter	Percent finer than 2.00 millimeter	Percent finer than 4.00 millimeter	Percent finer than 8.00 millimeter	Percent finer than 16.0 millimeter	Percent finer than 32.0 millimeter
140-099-06ACCD1	25	40	65	91	100	100
	77	97	99	100	100	100
	100	100	100	100	100	100
	98	100	100	100	100	100
	100	100	100	100	100	100
	92	93	97	100	100	100
	99	99	100	100	100	100
	98	98	98	100	100	100
	56	76	88	99	100	100
	96	98	99	100	100	100
	86	91	93	95	100	100
	99	99	100	100	100	100
	97	99	99	100	100	100
	95	96	99	100	100	100
	88	90	94	98	100	100
140-099-07DDDD1	100	100	100	100	100	100
	99	99	99	100	100	100
	98	99	99	100	100	100
	99	99	100	100	100	100
	95	99	100	100	100	100

Table 7.--Grain-size analyses of rock samples from selected wells and test holes--Continued

Township-range location number	Date	Depth to top of sample interval (feet)	Depth to bottom of sample interval (feet)	Percent finer than 0.062 millimeter	Percent finer than 0.125 millimeter	Percent finer than 0.250 millimeter	Percent finer than 0.500 millimeter
140-100-09ADA	12-15-83	0	5.0	16	29	47	87
	12-15-83	10	15	38	68	81	99
	12-15-83	20	25	21	34	54	93
	12-15-83	30	35	10	19	35	61
	12-15-83	40	45	8	14	22	32
	12-15-83	50	55	20	37	53	87
	12-15-83	60	65	16	30	54	95
	12-15-83	70	75	17	40	61	87
	12-15-83	80	85	28	56	75	100
	12-15-83	90	95	35	56	72	100
	12-15-83	100	105	18	34	56	96
	12-15-83	110	115	9	18	30	48
	12-15-83	120	125	3	9	49	93
	12-15-83	130	135	1	3	24	96
	12-15-83	140	145	2	14	63	97
	12-15-83	150	155	1	4	18	95
	12-15-83	160	165	1	6	30	94

Table 7.--Grain-size analyses of rock samples from selected wells and test holes--Continued

Township-range location number	Percent finer than 1.00 millimeter	Percent finer than 2.00 millimeter	Percent finer than 4.00 millimeter	Percent finer than 8.00 millimeter	Percent finer than 16.0 millimeter	Percent finer than 32.0 millimeter
140-100-09ADA	100	100	100	100	100	100
	100	100	100	100	100	100
	100	100	100	100	100	100
	99	99	100	100	100	100
	46	65	84	100	100	100
	100	100	100	100	100	100
	100	100	100	100	100	100
	93	94	96	99	100	100
	100	100	100	100	100	100
	100	100	100	100	100	100
	100	100	100	100	100	100
	86	99	100	100	100	100
	100	100	100	100	100	100
	100	100	100	100	100	100
	100	100	100	100	100	100
	100	100	100	100	100	100
	100	100	100	100	100	100

Table 8.--Laboratory analytical methods and detection levels for determination of chemical constituents in water

[From Feltz and others, 1985; °C, degrees Celsius; mg/L, milligrams per liter; µg/L, micrograms per liter; pCi/L, picocuries per liter]

Constituent	Analytical method	Detection level
Alkalinity, total (as $CaCO_3$)	Titrimetry, electrometric, automatic.	1 mg/L
Dissolved solids, residue at 180 °C	Gravimetry.	1 mg/L
Calcium, dissolved (as Ca)	Atomic absorption, direct.	0.1 mg/L
Magnesium, dissolved (as Mg)	Atomic absorption, direct.	0.1 mg/L
Sodium, dissolved (as Na)	Atomic absorption, direct.	0.1 mg/L
Potassium, dissolved (as K)	Atomic absorption, direct.	0.1 mg/L
Sulfate, dissolved (as SO_4)	Turbidimetry, automatic.	0.2 mg/L
Chloride, dissolved (as Cl)	Colorimetry, discrete analyzer, automatic.	0.1 mg/L
Fluoride, dissolved (as F)	Ion-selective electrode, automatic.	0.1 mg/L
Silica, dissolved (as SiO_2)	Colorimetry, molybdate, blue, automatic.	0.1 mg/L
Nitrite plus nitrate, total (as N)	Colorimetry, Cd-reduction, automatic.	0.01 mg/L
Nitrite plus nitrate, dissolved (as N)	Colorimetry, Cd-reduction, automatic.	0.01 mg/L
Nitrogen, ammonia plus organic, total (as N)	Block digest plus colorimetry, automatic.	0.01 mg/L
Nitrogen, ammonia, total (as N)	Colorimetry, automatic.	0.01 mg/L
Phosphorus, total (as P)	Colorimetry, phosphomolybdate, automatic.	0.01 mg/L
Phosphorus, total (as PO_4)	Colorimetry, phosphomolybdate, automatic.	0.01 mg/L
Phosphorus, ortho, total (as P)	Colorimetry, phosphomolybdate, automatic.	0.01 mg/L
Phosphorus, ortho, dissolved (as P)	Colorimetry, phosphomolybdate, automatic.	0.01 mg/L
Arsenic, dissolved (as As)	Atomic absorption, hydride, automatic.	1 µg/L
Barium, dissolved (as Ba)	Atomic absorption, direct.	100 µg/L

Table 8.--Laboratory analytical methods and detection levels for determination of chemical constituents in water--Continued

Constituent	Analytical method	Detection level
Beryllium, dissolved (as Be)	Atomic absorption, direct.	10 µg/L
Cadmium, dissolved (as Cd)	Atomic absorption, chel-extraction.	1 µg/L
Chromium, dissolved (as Cr)	Atomic absorption, direct.	10 µg/L
Cobalt, dissolved (as Co)	Atomic absorption, chel-extraction.	1 µg/L
Copper, dissolved (as Cu)	Atomic absorption, chel-extraction.	1 µg/L
Iron, dissolved (as Fe)	Atomic absorption, direct.	10 µg/L
Lead, dissolved (as Pb)	Atomic absorption, chel-extraction.	5 µg/L
Lithium, dissolved (as Li)	Atomic absorption, direct.	10 µg/L
Manganese, dissolved (as Mn)	Atomic absorption, direct.	10 µg/L
Mercury, dissolved (as Hg)	Atomic absorption, flameless, automatic.	0.1 µg/L
Molybdenum, dissolved (as Mo)	Atomic absorption, chel-extraction.	1 µg/L
Selenium, dissolved (as Se)	Atomic absorption, hydride, automatic.	1 µg/L
Strontium, dissolved (as Sr)	Atomic absorption, direct.	10 µg/L
Vanadium, dissolved (as V)	Colorimetry, catalytic, oxidation, automatic.	1 µg/L
Zinc, dissolved (as Zn)	Atomic absorption, direct.	0.5 µg/L
Alpha, gross dissolved as uranium natural	Residue procedure.	0.4 pCi/L
Alpha, gross suspended total as uranium natural	Residue procedure.	0.4 pCi/L
Beta, gross dissolved as cesium-137	Residue procedure.	0.4 pCi/L
Beta, gross suspended total as cesium-137	Residue procedure.	0.4 pCi/L
Beta, gross dissolved as strontium/yttrium-90	Residue procedure.	0.4 pCi/L
Beta, gross suspended total as strontium/yttrium-90	Residue procedure.	0.4 pCi/L
Radium-226, dissolved planchet count	Radon emination.	0.1 pCi/L
Radon-222, total	Radon emination.	2.0 pCi/L
Uranium, natural dissolved	Fluorimetry, direct.	0.4 pCi/L

Table 9.--Township-range location numbers and corresponding latitude-longitude numbers

Township-range location number	Latitude-longitude number	Township-range location number	Latitude-longitude number
	Fritz mine		
136-100-05ABCC	463735103160501	136-100-05ACDD3	463721103155103
136-100-05ACAA	463731103155101	136-100-05ACDD4	463721103155104
136-100-05ACBC	463728103160501	136-100-05ACDD5	463721103155105
136-100-05ACDB1	463725103155601	136-100-05ACDD6	463721103155106
136-100-05ACDB2	463725103155602	136-100-05BDAD	463728103161001
136-100-05ACDB3	463725103155603	136-100-05CAAA	463718103161001
136-100-05ACDB4	463725103155604	136-100-05DACA	463711103154201
136-100-05ACDB5	463725103155605		
136-100-05ACDB6	463725103155606		
136-100-05ACDB7	463725103155607		
136-100-05ACDB8	463725103155608		
136-100-05ACDB9	463725103155609		
136-100-05ACDB10	463725103155610		
136-100-05ACDD1	463721103155101		
136-100-05ACDD2	463721103155102		
	Smith 2 mine		
137-100-05CBAC1	464229103200101	137-100-05CBCA4	464226103200604
137-100-05CBAC2	464229103200102	137-100-05CBCA5	464226103200605
137-100-05CBCA1	464226103200601	137-100-05CBDA	464226103195601
137-100-05CBCA2	464226103200602		
137-100-05CBCA3	464226103200603		
	Smith 1 mine		
137-100-05DACB1	464226103191301	137-100-05DBDA5	464226103191805
137-100-05DACB2	464226103191302	137-100-05DBDA6	464226103191806
137-100-05DACB3	464226103191303	137-100-05DBDA7	464226103191807
137-100-05DACB4	464226103191304	137-100-05DBDD1	464223103191801
137-100-05DACB5	464226103191305	137-100-05DBDD2	464223103191802
137-100-05DBCA	464226103192801		
137-100-05DBDA1	464226103191801		
137-100-05DBDA2	464226103191802		
137-100-05DBDA3	464226103191803		
137-100-05DBDA4	464226103191804		

Table 9.--Township-range location numbers and corresponding latitude-longitude numbers--Continued

Township-range location number	Latitude-longitude number	Township-range location number	Latitude-longitude number
	Palaniuk and Frank mines		
140-099-06AAAA	465846103123701	140-099-06BDCA4	465826103132404
140-099-06ACCD1	465823103130501	140-099-06BDCA5	465826103132405
140-099-06ACCD2	465823103130502	140-099-06BDCA6	465826103132406
140-099-06ACCD3	465823103130503	140-099-06CAAB	465819103131901
140-099-06ACCD4	465823103130504	140-099-06CABC1	465816103133801
140-099-06ACCD5	465823103130505	140-099-06CABC2	465816103133802
140-099-06ACCD6	465823103130506	140-099-06CABC3	465816103133803
140-099-06ACCD7	465823103130507	140-099-06CABD	465816103132401
140-099-06ACCD8	465823103130508	140-099-06CBBD1	465816103134301
140-099-06ACCD9	465823103130509	140-099-06CBBD2	465816103134302
140-099-06ACCD10	465823103130510	140-099-06CBBD3	465816103134303
140-099-05ACCD11	465823103130511	140-099-06CBBD4	465816103134304
140-099-05ACCD12	465823103130512	140-099-06CBBD5	465816103134305
140-099-05ACCD13	465823103130513	140-099-06CBBD6	465816103134306
140-099-06ACDD	465823103125501	140-099-06CBBD7	465816103134307
140-099-06ADCC	465823103125101	140-099-06CCCC	465756103134801
140-099-06BACD	465836103132401	140-099-06CCD1	465758103133601
140-099-06BCAD	465830103133301	140-099-06CCD2	465758103133602
140-099-06BCBC	465829103134801	140-099-06CCD3	465758103133603
140-099-06BCCC	465823103134801	140-099-06CCD4	465758103133604
140-099-06BDAB	465833103131901	140-099-06CCD5	465758103133605
140-099-06BDBA1	465833103132401	140-099-06CCD6	465758103133606
140-099-06BDBA2	465833103132402	140-099-06CDCB1	465759103132901
140-099-06BDBB1	465833103132901	140-099-06CDCB2	465759103132902
140-099-06BDBB2	465833103132902	140-099-06DAAD	465816103123701
140-099-06BDBB3	465833103132903	140-099-06DABB1	465820103125101
140-099-06BDBB4	465833103132904	140-099-06DABB2	465820103125102
140-099-06BDCA1	465826103132401	140-099-06DABB3	465820103125103
140-099-06BDCA2	465826103132402	140-099-06DABB4	465820103125104
140-099-06BDCA3	465826103132403	140-099-06DABB5	465820103125105

Table 9.--Township-range location numbers and corresponding latitude-longitude numbers--Continued

Township-range location number	Latitude-longitude number	Township-range location number	Latitude-longitude number
	Palaniuk and Frank mines, Continued		
140-099-06DABB6	465820103125106	140-099-06DBBA2	465819103130502
140-099-06DABB7	465820103125107	140-099-06DBBD	465816103130501
140-099-06DABB8	465820103125108	140-099-06DDDD	465756103123701
140-099-06DABB9	465820103125109	140-099-07ABBB	465753103131001
140-099-06DABB10	465820103125110	140-099-07ABBD	465749103130501
140-099-06DABB11	465820103125111	140-099-07ABCA1	465746103130501
140-099-06DABB12	465820103125112	140-099-07ABCA2	465746103130502
140-099-06DABB13	465820103125113	140-099-07ABCA3	465746103130503
140-099-06DABB14	465820103125114	140-099-07ABCA4	465746103130504
140-099-06DABB15	465820103125115	140-099-07ABCA5	465746103130505
140-099-06DABB16	465820103125116	140-099-07ABCA6	465746103130506
140-099-06DABC	465816103125101	140-099-07ABCA7	465746103130507
140-099-06DABD	465816103124601	140-099-07ADAA	465739103123701
140-099-06DBAB1	465820103130001	140-099-07ADDD	465729103123701
140-099-06DBAB2	465820103130002	140-099-07BDAA	465739103131401
140-099-06DBAB3	465820103130003	140-099-07CDCD	465702103132401
140-099-06DBAB4	465820103130004	140-099-07DDDD1	465702103123701
140-099-06DBAB5	465820103130005	140-099-07DDDD2	465702103123702
140-099-06DBAB6	465820103130006	141-099-33DDDA	465853103132001
140-099-06DBAB7	465820103130007		
140-099-06DBAB8	465820103130008		
140-099-06DBAB9	465820103130009		
140-099-06DBAB10	465820103130010		
140-099-06DBAD	465816103125501		
140-099-06DBBA1	465819103130501		
	Talkington mine		
140-100-09ADA	465737103174501	140-100-10BABC5	465749103171805
140-100-10BABC1	465749103171801	140-100-10BABC6	465749103171806
140-100-10BABC2	465749103171802	140-100-10BABC7	465749103171807
140-100-10BABC3	465749103171803	140-100-10BACA	465746103171401
140-100-10BABC4	465749103171804	140-100-10BACB1	465746103171801

Table 9.--Township-range location numbers and corresponding latitude-longitude numbers--Continued

Township-range location number	Latitude-longitude number	Township-range location number	Latitude-longitude number
	Talkington mine, Continued		
140-100-10BACB2	465746103171802	140-100-10BDBA6	465739103171406
140-100-10BACB3	465746103171803		
140-100-10BACC	465742103171801		
140-100-10BACD	465742103171401		
140-100-10BBAD	465749103172301		
140-100-10BDBA1	465739103171401		
140-100-10BDBA2	465739103171402		
140-100-10BDBA3	465739103171403		
140-100-10BDBA4	465739103171404		
140-100-10BDBA5	465739103171405		
	Klym mine		
142-099-23CDCA	470550103114001	142-099-26BACC6	460534103114506
142-099-23CDCB1	470550103114501	142-099-26BACC7	460534103114507
142-099-23CDCB2	470550103114502	142-099-26BACC8	460534103114508
142-099-23CDCB3	470550103114503	142-099-26BACC9	460534103114509
142-099-23CDCB4	470550103114504	142-099-26BADA	470537103113101
142-099-23CDCB5	470550103114505	142-099-26BBAA1	470544103115001
142-099-23CDCB6	470550103114506	142-099-26BBAA2	470544103115002
142-099-23CDCB7	470550103114507	142-099-26BBAA3	470544103115003
142-099-23CDCB8	470550103114508	142-099-26BBAA4	470544103115004
142-099-23CDDD	470547103113101	142-099-26BBAA5	470544103115005
142-099-26BACC1	470534103114501	142-099-26BBAA6	470544103115006
142-099-26BACC2	470534103114502	142-099-26BBAA7	470544103115007
142-099-26BACC3	460534103114503		
142-099-26BACC4	460534103114504		
142-099-26BACC5	460534103114505		
	Private wells and springs		
136-100-17ADD	463536103153501	137-100-08DAA	464138103190101
136-100-20AAD	463456103153501	137-100-26CCA	463849103161001
136-100-22BAA	463503103134101	137-100-28DDA	463849103174501
137-100-04CDD	464211103182301	138-100-23DDD	464448103151201
137-100-08ABB	464205103193001	138-100-28ADA	464428103174401

Table 9.--Township-range location numbers and corresponding latitude-longitude numbers--Continued

Township-range location number	Latitude-longitude number	Township-range location number	Latitude-longitude number
	Private wells and springs, Continued		
140-099-04CBB	465818103111401	142-099-12BDD	470759103101701
140-099-08DAA	465724103112301	142-099-15DCD	470641103123001
140-100-01ABB	465845103142401	142-099-24ABC	470628103100701
140-100-22AAA	465603103162801	142-099-25ADC	470523103094801
140-100-22DAA	465536103162801	142-099-28ABA	470542103134601
141-099-03BAD	470352103124501	142-099-28DCC	470456103135601
141-099-27DDA	465951103120601	142-099-35DDD	470404103105501
141-099-35BAB	465937103113801		
142-098-18BBC	470720103170601		
142-099-10ABB	470819103124001		