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GEOLOGICAL SURVEY

HYDROLOGIC DATA FOR WATER-TABLE AQUIFERS IN THE COLORADO SPRINGS--CASTLE ROCK AREA, FRONT RANGE URBAN CORRIDOR, COLORADO

By E. Carter Hutchinson and Donald E. Hillier

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METRIC CONVERSION TABLE

Multiply inch-pound unit	*By*	*To obtain metric unit*
inch	25.40	millimeter
foot (ft)	.3048	meter
mile	1.609	kilometer
gallon per minute (gal/min)	.06309	liter per second

HYDROLOGIC DATA FOR WATER-TABLE AQUIFERS IN THE COLORADO SPRINGS--CASTLE ROCK AREA, FRONT RANGE URBAN CORRIDOR, COLORADO

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ABSTRACT

As part of the U.S. Geological Survey's investigations of the hydrology and geology in the Front Range Urban Corridor of Colorado, hydrologic data for water-table aquifers in the Colorado Springs--Castle Rock area were collected and compiled during 1976-77. These data, consisting of records for 157 wells and 47 springs and chemical analyses of water for 135 of the wells and all 47 springs, are presented in tabular form in this report. The tables contain data that were collected during the investigation, data compiled from reports published by the Colorado Water Conservation Board, and unpublished data from the files of the U.S. Geological Survey. State and local officials in the Colorado Springs--Castle Rock area may find these data useful in planning for residential, commercial, and industrial development.

INTRODUCTION

As part of the U.S. Geological Survey's investigations of the hydrology and geology in the Front Range Urban Corridor of Colorado (fig. 1), hydrologic data for water-table aquifers in the Colorado Springs--Castle Rock area were collected and compiled during 1976-77. The data contained in this report consist of data collected during the investigation, data compiled from reports published by the Colorado Water Conservation Board (see SELECTED REFERENCES), and unpublished data from the files of the U.S. Geological Survey. State and local officials in the Colorado Springs--Castle Rock area may find these data useful in planning for residential, commercial, and industrial development.

Appreciation is extended to the many land owners in the study area for permitting access to and collection of water data from their wells or springs.

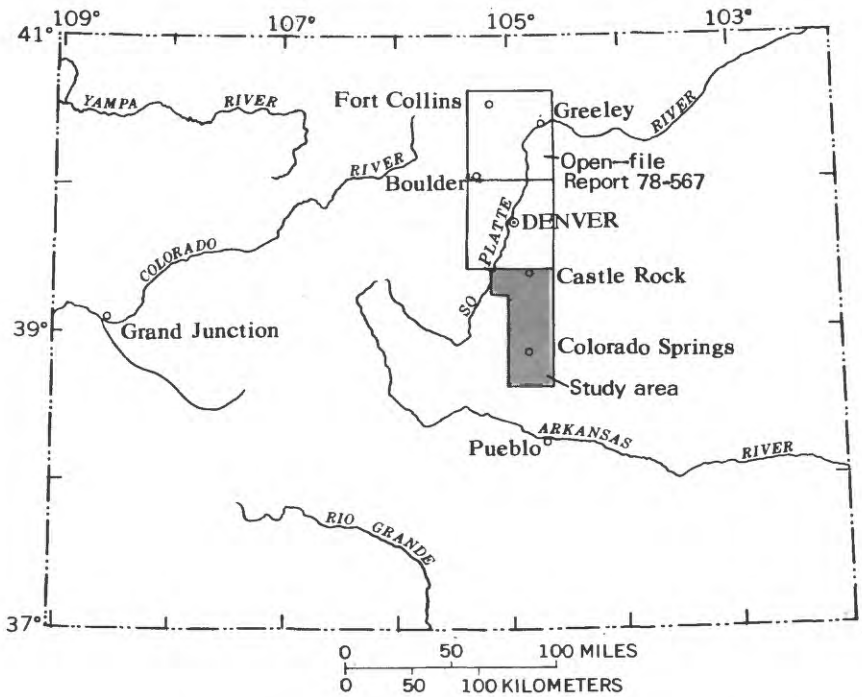

Figure 1.--Location of study area in the Front Range Urban Corridor.

METHOD OF DATA PRESENTATION

Hydrologic data are presented in tables 1-4 at the back of this report. Records of wells are included in table 1; chemical analyses of water from wells are included in table 2. Records of springs are included in table 3; chemical analyses of water from springs are included in table 4. The locations of the wells and springs are shown on plate 1. The wells and springs in the tables are cross indexed with locations shown on plate 1 using numbers found in the first column of the tables and adjacent to the well or spring symbol on plate 1.

Each well and spring in the tables also is located by township, range, and section (local well number) as explained on figure 2 and by latitude and longitude (site identification number). The first six digits of the site identification number are the latitude, in degrees, minutes, and seconds. The next seven digits are the longitude, in degrees, minutes, and seconds. The last two digits are the sequential number assigned to the well or spring.

Records of wells for which historical (1975 or older) chemical-quality data are available and records of wells for which depth-to-water and chemical-quality data were collected during 1976-77 are included in table 1. Depth-to-water measurements are shown only for wells where the depth to water was measured during 1976-77. Land-surface altitudes were determined from topographic maps published by the U.S. Geological Survey.

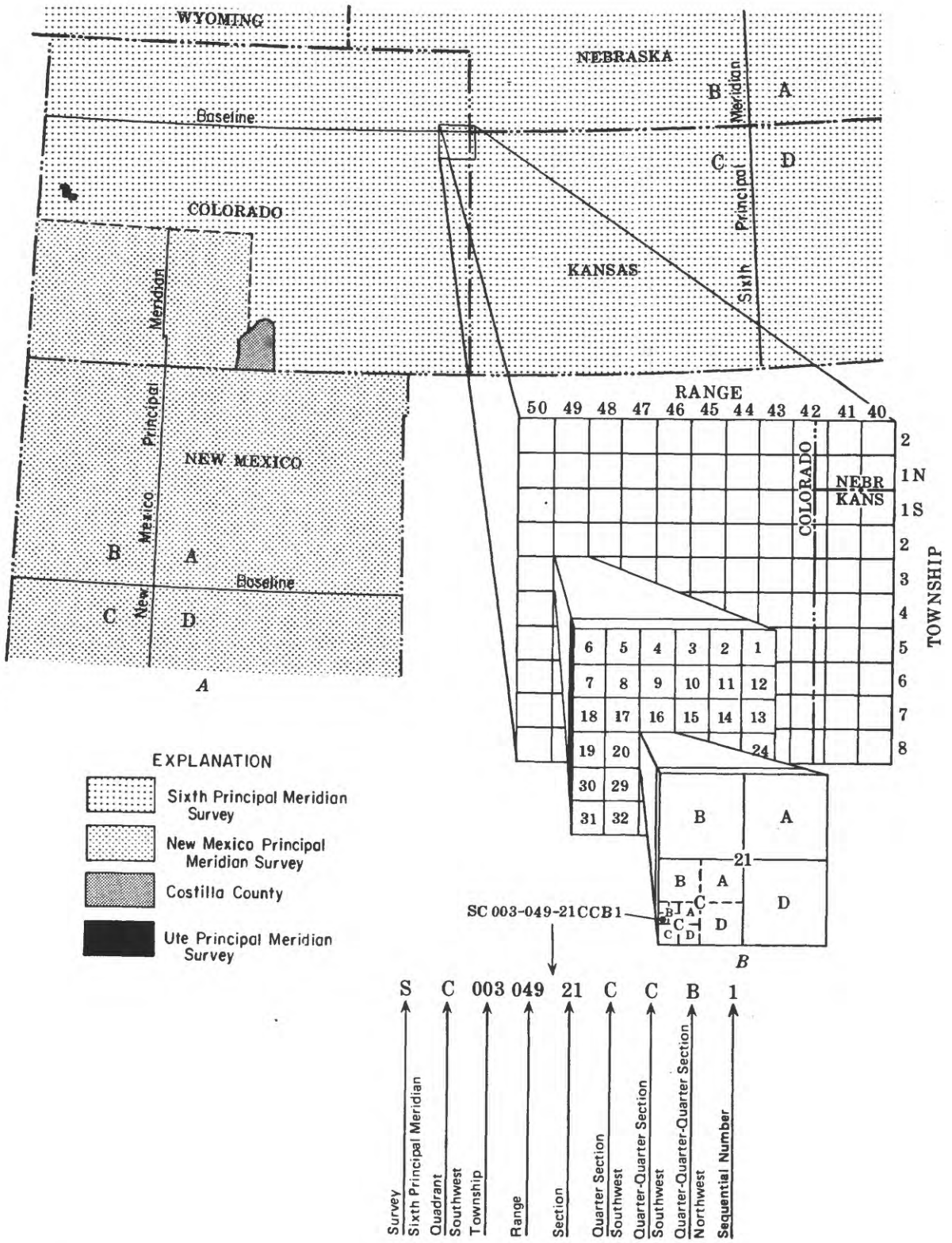

Figure 2.--System of numbering wells and springs using township, range, and section.

All chemical analyses presented in table 2 were determined in laboratories of the U.S. Geological Survey with the exception of those analyses for wells 110 and 123. The analysis for well 110 was provided by the City of Colorado Springs; the analysis for well 123 was provided by the Colorado Department of Health.

Records of springs for which historical (1975 or older) chemical-quality data are available and records of springs for which chemical-quality data were collected during 1976-77 are included in table 3. Land-surface altitudes were determined from topographic maps published by the U.S. Geological Survey. All chemical analyses presented in table 4 were determined in laboratories of the U.S. Geological Survey.

SELECTED REFERENCES

Jenkins, E. D., 1961, Records, logs, and water-level measurements of selected wells and test holes, and chemical analyses of ground water in Fountain, Jimmy Camp, and Black Squirrel Valleys, El Paso County, Colorado: Colorado Water Conservation Board Basic-Data Report 3, 25 p.

McConaghy, J. A., Chase, G. H., Boettcher, A. J., and Major, T. J., 1964, Hydrogeologic data of the Denver Basin, Colorado: Colorado Water Conservation Board Basic-Data Report 15, 224 p.

Schneider, Paul A., Jr., and Hillier, Donald E., 1978, Hydrologic data for water-table aquifers in the Boulder--Fort Collins--Greeley area, Front Range Urban Corridor, Colorado: U.S. Geological Survey Open-File Report 78-567, 55 p.

Table 1.--*Records of wells*

EXPLANATION OF DATA

COUNTY:
- 035 = Douglas County
- 041 = El Paso County

AQUIFER:
- Holocene and Pleistocene
  - 111ALFP--Alluvium, flood plain
  - 111AVMT--Alluvium, terrace
  - 111VLFL--Valley-fill deposits
- Eocene
  - 124DWSN--Dawson Arkose
- Cretaceous
  - 210DKOT--Dakota Group
- Upper Cretaceous
  - 211CRLL--Carlile Shale
  - 211FXHL--Fox Hills Sandstone
  - 211PIRR--Pierre Shale
- Precambrian
  - 400PCMB--Precambrian Erathem

CASING MATERIAL:
- C = Concrete
- G = Galvinized iron
- P = Plastic
- R = Rock
- S = Steel
- T = Tile

PUMP TYPE:
- C = Centrifugal
- J = Jet
- P = Piston
- S = Submergible
- T = Turbine
- N = None

PUMP POWER:
- D = Diesel
- E = Electricity
- G = Gasoline
- H = Hand
- W = Wind
- N = None

USE OF WATER:
- C = Commercial
- H = Domestic
- I = Irrigation
- N = Industrial
- P = Public supply
- S = Stock watering
- U = Unused

Table 1.--*Records of wells*--Continued

Site number on plate 1	Local well number	Site identification number	County	Aquifer	Depth of well (feet)	Casing diameter (inches)	Casing material	Pump type	Pump power	Use of water	Depth to water (feet)	Date of water-level measurement	Altitude of land surface (feet)	Chemical analysis in table 2
1	SC00806518CBC1	392107104430400	035	111ALFP	45	42	C	T	G	I	13.6	11-4-76	6320	Yes
2	SC00806612CBB1	392210104440801	035	111AVMT	71	18	G	T	G	I	—	—	6225	Yes
3	SC00806614DAD1	392107104441400	035	111YLFL	5	24	C	N	N	U	3.3	11-23-76	6385	Yes
4	SC00806711BAB1	392230104513900	035	111AVMT	80	7	P	S	E	P	32.3	7-22-76	6278	Yes
5	SC00806711DBD1	392157104511301	035	111AVMT	90	48	—	T	E	P	—	—	6248	Yes
6	SC00806711DBD2	392202104511900	035	111AVMT	80	7	P	T	E	P	—	—	6237	Yes
7	SC00806713BBD1	392134104504400	035	111ALFP	70	6	S	S	E	H	10.6	8-26-76	6280	Yes
8	SC00806713CAA1	392115104502400	035	111ALFP	60	6	S	S	E	H	21.3	7-2-76	6320	Yes
9	SC00806713DDC1	392054104495700	035	111ALFP	62	4	S	S	E	H	19.8	7-22-76	6360	Yes
10	SC00806717ADB1	392131104543000	035	111YLFL	21	72	R	N	N	U	16.7	7-28-76	6465	Yes
11	SC00806722DAC1	392016104521400	035	111ALFP	17	36	C	C	E	H	12.4	6-18-76	6300	Yes
12	SC00806724DBB1	392020104502200	035	124DWSN	68	4	S	N	N	U	12.8	7-9-76	6470	Yes
13	SC00806726ACD1	391934104511700	035	124DWSN	77	4	S	P	W	S	14.1	9-1-76	6545	Yes
14	SC00806727ABC1	391950104523000	035	111ALFP	53	4	P	S	E	H	14.4	7-22-76	6320	Yes
15	SC00806727ACD1	391936104522500	035	111ALFP	52	4	P	J	E	H	13.8	6-3-76	6340	Yes
16	SC00806734BCA1	391848104525600	035	111ALFP	76	18	S	T	E	I	10.1	7-16-76	6380	Yes
17	SC00806809CAD1	392200105002700	035	111ALFP	33	4	S	P	E	U	8.2	8-6-76	6190	No
18	SC00806809DBC1	392159105001900	035	111ALFP	52	7	S	S	E	H	—	—	6186	Yes
19	SC00806816CCB1	392059105005900	035	111YLFL	41	6	S	P	W	H	—	—	6470	Yes
20	SC00806826CAC1	391926104582600	035	111AVMT	50	48	R	P	H	H	29.4	7-29-76	6118	Yes

Table 1.--*Records of wells*--Continued

Site number on plate 1	Local well number	Site identification number	County	Aquifer	Depth of well (feet)	Casing diameter (inches)	Casing material	Pump type	Pump power	Use of water	Depth to water (feet)	Date of water-level measurement	Altitude of land surface (feet)	Chemical analysis in table 2
21	SC009065 28BBA1	391441104403600	035	111ALFP	27	5	S	J	E	H	—	—	6860	Yes
22	SC009065 29BBB1	391440104415200	035	111ALFP	25	48	R	C	E	H	18.0	2-10-77	6875	Yes
23	SC009066 17DBC1	391556104480200	035	111ALFP	20	36	R	P	W	S	—	—	6725	Yes
24	SC009066 23DAD1	391501104441300	035	111VLFL	19	48	R	P	W	U	12.5	11-23-76	6820	Yes
25	SC009066 35BCB1	391339104451800	035	111ALFP	19	30	R	P	E	H	14.3	11-22-76	6870	Yes
26	SC009066 35DDD1	391303104441300	035	111AVMT	41	48	R	S	E	H	31.8	2-17-77	6960	Yes
27	SC009067 07BAA1	391721104555800	035	124DWSN	103	4	S	P	W	S	—	—	6640	Yes
28	SC009067 16DCD1	391542104533200	035	111ALFP	10	36	S	J	E	H	3.9	6-3-76	6560	Yes
29	SC009067 27CBD1	391412104525500	035	124DWSN	102	6	S	S	E	H	43.7	8-20-76	6682	Yes
30	SC009067 33DDD1	391304104531300	035	111ALFP	10	18	S	J	E	H	9.0	5-25-76	6715	Yes
31	SC009067 34BCB1	391337104530200	035	111ALFP	11	36	C	S	E	H	5.6	5-5-76	6675	Yes
32	SC009068 02BAD1	391809104581600	035	111AVMT	74	6	P	S	E	H	40.8	6-10-76	6203	Yes
33	SC009068 04DBB1	391745105002000	035	111ALFP	48	12	T	S	E	U	21.6	8-4-76	6330	No
34	SC009068 09CDD1	391636105002500	035	111ALFP	55	4	S	S	E	H	16.6	8-3-76	6540	Yes
35	SC009068 13BBD1	391619104572500	035	111ALFP	69	4	P	S	E	H	15.5	5-27-76	6305	Yes
36	SC009068 13BCA1	391614104572500	035	111ALFP	65	4	S	S	E	S	14.6	6-2-76	6302	Yes
37	SC009068 15DAA1	391604104584600	035	111ALFP	50	18	S	T	E	I	4.1	5-27-76	6315	Yes
38	SC009068 25BDC1	391424104571600	035	111ALFP	72	7	P	J	E	H	25.7	5-26-76	6445	Yes
39	SC009068 35AAB1	391351104575300	035	111ALFP	41	12	S	S	E	H	7.5	5-12-76	6475	Yes
40	SC009068 36CBA1	391327104572000	035	111ALFP	23	7	S	P	W	S	9.9	5-26-76	6515	Yes

Table 1.--*Records of wells*--Continued

Site number on plate 1	Local well number	Site identification number	County	Aquifer	Depth of well (feet)	Casing diameter (inches)	Casing material	Pump type	Pump power	Use of water	Depth to water (feet)	Date of water-level measurement	Altitude of land surface (feet)	Chemical analysis in table 2
41	SC0100650 6BBC1	391253104430000	035	111AVMT	12	48	R	P	H	H	9.3	2-9-77	6880	Yes
42	SC0100652 1BCA1	391006104404201	035	111ALFP	17	36	R	N	N	U	10.4	5-5-77	7070	Yes
43	SC0100652 8BABI	390926104403200	035	111AVMT	30	6	S	J	E	H	—	—	7125	Yes
44	SC0100653 0CCC1	390854104430501	035	111VLFL	16	36	R	N	N	U	14.0	5-6-77	7295	No
45	SC0100653 3BDA1	390823104082501	035	111VLFL	27	6	G	P	H	U	10.9	5-3-77	7175	No
46	SC0100661 3CCC1	391031104441200	035	111VLFL	19	48	R	N	N	U	13.4	11-24-76	7082	Yes
47	SC0100662 2DBA1	390956104454300	035	111VLFL	8	48	S	P	E	H	.8	11-19-76	7070	Yes
48	SC0100662 8DDD1	390846104463001	035	111AVMT	16	60	R	P	W	U	9.5	4-22-77	7160	Yes
49	SC0100670 4ACD1	391241104533200	035	111ALFP	20	72	S	C	E	H	7.5	8-18-76	6755	Yes
50	SC0100670 8BAC1	391201104545900	035	111ALFP	41	6	S	J	E	H	—	—	6835	Yes
51	SC0100671 6ACD1	391057104533100	035	111ALFP	17	5	S	P	H	S	6.9	6-18-76	6935	Yes
52	SC0100672 0ACA1	391007104543700	035	111ALFP	65	5	P	S	E	H	16.2	5-25-76	7070	Yes
53	SC0100672 9BAA1	390931104545500	035	111AVMT	50	5	P	S	E	H	17.4	5-25-76	7160	Yes
54	SC0110651 6DCC1	390512104400901	041	124DWSN	—	6	S	S	E	H	21.1	4-29-77	7430	Yes
55	SC0110651 7CCA1	390521104414301	041	111VLFL	24	6	G	P	W	S	12.3	5-4-77	7360	Yes
56	SC0110652 0CDD1	390418104412501	041	111VLFL	50	6	G	P	W	S	15.6	4-29-77	7425	Yes
57	SC0110652 9DBC1	390339104412401	041	111ALFP	16	6	G	P	W	S	1.2	5-4-77	7456	No
58	SC0110660 3CCA1	390701104462000	041	111AVMT	60	5	P	P	E	H	—	—	7239	Yes
59	SC0110661 5CDB1	390514104460901	041	124DWSN	50	—	—	P	W	S	33.5	4-28-77	7390	Yes
60	SC0110673 3CAB1	390252104535100	041	111VLFL	—	—	—	—	—	—	—	—	—	Yes

Table 1.--*Records of wells*--Continued

Site number on plate 1	Local well number	Site identification number	County	Aquifer	Depth of well (feet)	Casing diameter (inches)	Casing material	Pump type	Pump power	Use of water	Depth to water (feet)	Date of water-level measurement	Altitude of land surface (feet)	Chemical analysis in table 2
61	SC0120660 78BBB1	390138104494200	041	111VLFL	25	—	—	—	—	—	—	—	6680	Yes
62	SC0120662 0BCB1	385937104484000	041	111VLFL	50	—	—	—	—	H	—	—	6635	Yes
63	SC0120663 4BBB1	385808104462300	041	111ALFP	122	8	G	P	W	S	—	—	6845	Yes
64	SC0130650 5BCC1	385656104420001	041	111AVMT	70	—	—	N	N	U	21.4	6-24-77	6945	No
65	SC0130650 6DAB1	385651104421001	041	124DWSN	33	—	—	—	—	H	—	—	6958	Yes
66	SC0130650 8ADB1	385618104411400	041	111VLFL	100	—	—	—	—	—	—	—	—	Yes
67	SC0130650 8DBA1	385601104411701	041	111AVMT	92	8	S	S	E	H	20.5	7-1-77	6822	Yes
68	SC0130651 6CAD1	385456104402301	041	111AVMT	73	—	—	J	E	H	14.7	7-15-77	6732	Yes
69	SC0130652 7AAA1	385345104384800	041	111ALFP	62	5	P	S	E	H	15.0	10-21-76	6605	Yes
70	SC0130660 8CAB1	385556104482401	041	111AVMT	50	8	S	N	N	U	23.3	7-12-77	6341	No
71	SC0130660 9CAC1	385551104471701	041	111AVMT	30	6	P	S	E	H	6.0	7-2-77	6422	Yes
72	SC0130661 0ACD1	385603104454200	041	111VLFL	60	—	—	P	W	H	—	—	6630	Yes
73	SC0130663 2AAC1	385244104474601	041	211FXHL	46	8	P	S	E	I	21.4	7-8-77	6210	Yes
74	SC0130671 4BAC1	385519104513800	041	111VLFL	30	—	—	—	—	—	—	—	6545	Yes
75	SC0130673 4DBD1	385221104522501	041	111VLFL	36	28	S	C	E	U	28.5	7-8-77	6295	No
76	SC0130688 22AAC1	385434104158300	041	111VLFL	33	—	—	—	—	—	—	—	—	Yes
77	SC0140650 4CCB1	385123104405000	041	111ALFP	60	6	S	J	E	H	—	—	6382	Yes
78	SC0140650 5ADA1	385147104405800	041	111AVMT	57	5	P	S	E	H	35.6	10-21-76	6415	Yes
79	SC0140650 7CCB1	385033104431000	041	111AVMT	78	5	P	S	E	I	53.8	10-19-76	6225	Yes
80	SC0140650 8CCD1	385021104414900	041	111AVMT	46	6	S	S	E	C	40.7	10-19-76	6286	Yes

Table 1.--*Records of wells*--Continued

Site number on plate 1	Local well number	Site identification number	County	Aquifer	Depth of well (feet)	Casing diameter (inches)	Casing material	Pump type	Pump power	Use of water	Depth to water (feet)	Date of water-level measurement	Altitude of land surface (feet)	Chemical analysis in table 2
81	SC0140652 7ACB1	384822104391101	041	111ALFP	110	10	G	P	W	S	30.5	7-6-77	5978	Yes
82	SC0140652 7DDB4	384755104385201	041	111ALFP	80	20	S	T	E	I	23.4	7-6-77	5945	Yes
83	SC0140653 4AAC1	384753104385401	041	111VLFL	82	20	S	T	E	I	24.4	2-22-77	5920	No
84	SC0140660 1ADB1	385151104432400	041	124DWSN	92	5	P	S	E	N	42.0	10-22-76	6358	Yes
85	SC0140660 6ADA1	385152104485401	041	111AYMT	–	6	S	S	E	I	21.6	7-28-77	6110	Yes
86	SC0140661 2CDD1	385025104434700	041	111ALFP	61	6	S	N	N	U	32.2	10-22-76	6190	Yes
87	SC0140661 3CCA1	384942104440800	041	111ALFP	24	48	C	P	H	S	12.6	10-21-76	6105	Yes
88	SC0140661 3CCA2	384942104440900	041	111ALFP	56	6	S	J	E	H	–	–	6105	Yes
89	SC0140661 4DDC1	384933104443300	041	111ALFP	14	60	C	C	E	H	8.1	10-20-76	6082	Yes
90	SC0140662 0CDC1	384840104482201	041	111ALFP	17	72	S	T	E	I	8.5	7-7-77	5875	Yes
91	SC0140662 2BBC1	384921104463001	041	211PIER	40	16	S	T	E	I	9.8	7-7-77	5985	Yes
92	SC0140663 2AAD1	384738104473801	041	111AYMT	67	12	S	T	E	I	44.6	7-8-77	5865	Yes
93	SC0140663 3DAA1	384718104463700	041	111AYMT	72	6	S	J	E	H	–	–	5832	Yes
94	SC0140670 3DBB1	385138104523100	041	211CRLL	73	6	G	J	E	S	–	–	6190	Yes
95	SC0140672 5DDD1	384750104500700	041	111ALFP	67	6	G	S	E	I	–	–	6090	Yes
96	SC0140673 6BBA1	384742104504500	041	111ALFP	52	6	G	J	E	I	–	–	6185	Yes
97	SC0140673 6BDC1	384721104503700	041	111ALFP	18	60	R	T	E	I	–	–	6118	Yes
98	SC0150650 3AAB2	384652104382401	041	111ALFP	50	20	G	T	E	I	18.1	2-22-77	5870	Yes
99	SC0150650 3ABA1	384648104390400	041	111VLFL	59	18	S	T	E	I	–	–	5870	Yes
100	SC0150651 0ABB2	384552104391301	041	111ALFP	51	24	S	T	E	I	21.4	2-22-77	5815	Yes

Table 1.--*Records of wells*--Continued

Site number on plate 1	Local well number	Site identification number	County	Aquifer	Depth of well (feet)	Casing diameter (inches)	Casing material	Pump type	Pump power	Use of water	Depth to water (feet)	Date of water-level measurement	Altitude of land surface (feet)	Chemical analysis in table 2
101	SC0150651 5DAA1	384440104384601	041	IIIVLFL	31	24	S	N	N	U	13.0	2-22-77	5727	No
102	SC0150651 8DBA1	384437104422601	041	IIIALFP	36	24	S	T	E	I	—	—	5740	Yes
103	SC0150652 2DBA1	384349104381300	041	IIIVLFL	78	16	S	T	E	I	—	—	5686	Yes
104	SC0150652 2DBB1	384347104390901	041	IIIALFP	78	16	S	T	E	I	16.1	2-22-77	5686	Yes
105	SC0150652 7ADA1	384304104384800	041	IIIVLFL	—	—	—	—	—	—	—	—	—	Yes
106	SC0150652 7CCB1	384247104393500	041	IIIVLFL	—	—	—	—	—	—	—	—	—	Yes
107	SC0150652 8DCD1	384231104400601	041	IIIALFP	59	16	S	T	E	I	21.1	2-22-77	5626	Yes
108	SC0150653 1BDB1	384216104424501	041	IIIAVMT	48	16	S	T	E	I	—	—	—	Yes
109	SC0150653 3BDD1	384210104402601	041	IIIALFP	70	8	S	S	E	I	17.8	7-15-77	5600	Yes
110	SC0150653 3CBD1	384158104404401	041	IIIALFP	39	6	S	C	E	I	—	—	5580	Yes
111	SC0150660 1DDB1	384610104432400	041	IIIVLFL	83	16	G	T	E	P	—	—	5900	Yes
112	SC0150660 3BAC1	384639104461401	041	IIIAVMT	85	6	S	S	E	H	63.7	7-29-77	5822	Yes
113	SC0150660 3BCA2	384632104462201	041	IIIVLFL	32	24	S	T	E	N	28.9	2-22-77	5750	No
114	SC0150660 3CAB1	384622104460901	041	IIIAVMT	49	—	—	T	E	P	22.6	7-11-77	5770	Yes
115	SC0150660 3CAD2	384618104460600	041	IIIVLFL	39	—	—	T	E	I	—	—	5760	Yes
116	SC0150660 3DCA1	384611104454600	041	IIIVLFL	72	36	G	T	E	C	—	—	5780	Yes
117	SC0150660 3DDB1	384610104453501	041	IIIVLFL	80	24	G	T	E	P	42.6	2-23-77	5780	No
118	SC0150661 0AAB1	384554104453600	041	IIIVLFL	53	24	S	T	E	I	—	—	5735	Yes
119	SC0150661 0AAD1	384548104452801	041	IIIALFP	45	24	S	T	E	P	—	—	5730	Yes
120	SC0150661 1BCA1	384548104451001	041	IIIVLFL	62	1	S	N	N	U	34.3	2-23-77	5760	No

Table 1.--*Records of wells*--Continued

Site number on plate 1	Local well number	Site identification number	County	Aquifer	Depth of well (feet)	Casing diameter (inches)	Casing material	Pump type	Pump power	Use of water	Depth to water (feet)	Date of water-level measurement	Altitude of land surface (feet)	Chemical analysis in table 2
121	SC0150611BDC1	384534104450701	041	111NLFL	80	24	S	T	E	I	40.4	3-1-77	5750	No
122	SC0150611CBB1	384533104452000	041	111VLFL	50	24	S	T	E	P	—	—	5720	Yes
123	SC0150611CDA1	384517104445501	041	111ALFP	70	24	G	T	E	P	—	—	5730	Yes
124	SC0150611CDB1	384518104450501	041	111ALFP	41	24	S	T	E	I	—	—	5720	Yes
125	SC0150612ABA1	384553104432901	041	111VLFL	77	24	S	T	E	P	33.8	7-7-77	5875	No
126	SC0150613BCC2	384442104441201	041	111AVMT	75	1	S	N	N	U	40.3	2-23-77	5705	Yes
127	SC0150614AAC1	384459104443401	041	111VLFL	76	24	S	T	E	P	35.8	2-23-77	5720	Yes
128	SC0150614ABB1	384507104444501	041	111VLFL	76	16	S	T	D	I	26.0	2-23-77	5716	No
129	SC0150614ADD1	384443104441801	041	111VLFL	74	16	G	T	E	I	36.7	2-23-77	5708	No
130	SC0150614DAD1	384428104442101	041	111ALFP	14	30	S	J	E	H	11.4	8-4-77	5683	No
131	SC0150624BAA1	384413104434601	041	111VLFL	74	24	S	T	E	P	—	—	5687	Yes
132	SC0150624BAD2	384402104434800	041	111VLFL	73	16	G	T	E	P	—	—	5670	Yes
133	SC0150624DBA1	384346104433300	041	111VLFL	60	16	S	T	E	P	—	—	5660	Yes
134	SC0150624DCA1	384333104433201	041	111ALFP	28	48	R	J	E	I	17.6	7-15-77	5642	Yes
135	SC0150714BDA1	384450104513200	041	400PLMB	—	—	—	—	—	—	—	—	—	Yes
136	SC0150736ACC1	384208104501600	041	111ALFP	85	7	G	S	E	H	—	—	6290	Yes
137	SC0150736BAC1	384218104503400	041	111ALFP	24	5	G	—	E	H	—	—	6360	Yes
138	SC0160502AAD1	383759104373800	041	211PIRR	40	—	—	—	—	—	—	—	—	Yes
139	SC0160650 4BBB1	384132104405100	041	111VLFL	45	—	—	T	E	I	—	—	5560	Yes
140	SC0160650 5ADD1	384117104410401	041	111VLFL	32	—	—	T	E	I	13.2	2-22-77	5550	No

Table 1.--*Records of wells*--Continued

Site number on plate 1	Local well number	Site identification number	County	Aquifer	Depth of well (feet)	Casing diameter (inches)	Casing material	Pump type	Pump power	Use of water	Depth to water (feet)	Date of water-level measurement	Altitude of land surface (feet)	Chemical analysis in table 2
141	SC0160650 5CCB1	384056104415601	041	111VLFL	50	24	G	T	E	P	—	—	5545	Yes
142	SC0160650 5DDB1	384054104410601	041	111AVMT	—	—	—	—	—	—	—	—	—	Yes
143	SC0160650 6ACC1	384113104423101	041	111AVMT	44	24	S	S	E	I	25.7	7-8-77	5550	Yes
144	SC0160650 8DBA1	384018104411501	041	111AVMT	57	16	S	T	E	I	31.5	7-12-77	5523	Yes
145	SC0160650 8DCC1	383955104412601	041	111VLFL	37	6	S	N	N	U	16.5	2-22-77	5499	No
146	SC0160651 6BBA1	383952104404001	041	111ALFP	60	12	G	T	E	I	37.2	7-12-77	5510	Yes
147	SC0160651 7AAA1	383952104405601	041	111VLFL	60	24	S	T	E	I	31.1	2-22-77	5505	No
148	SC0160651 7AAA 2	383952104405600	041	111VLFL	47	6	S	N	N	U	25.7	2-22-77	5504	No
149	SC0160652 0AAA1	383859104410201	041	111AVMT	53	24	G	T	E	I	28.1	7-13-77	5465	Yes
150	SC0160652 0DCA1	383820104411400	041	111VLFL	43	16	G	T	E	P	—	—	5410	Yes
151	SC0160652 1BBA1	383857104404501	041	111VLFL	56	24	S	T	E	I	—	—	5471	Yes
152	SC0160652 8BCD1	383747104404501	041	111AVMT	26	24	G	T	E	S	17.7	7-13-77	5424	Yes
153	SC0160661 5DBA1	383921104454301	041	111ALFP	39	8	S	T	E	I	4.5	7-14-77	5645	Yes
154	SC0160661 5DBB1	383924104455200	041	111VLFL	60	—	—	T	E	I	—	—	5660	Yes
155	SC0160670 2DDB1	384049104510800	041	211DROT	17	—	—	—	—	P	—	—	—	Yes
156	SC0160670 3ADD1	384122104520700	041	400PCMB	145	5	S	J	E	H	—	—	6660	Yes
157	SC0160672 9BDC1	383746104550300	041	400PCMB	36	4	G	—	—	H	—	—	6890	Yes

Table 2.--*Chemical analyses of water from wells*

EXPLANATION OF DATA

COUNTY:

035 = Douglas County
041 = El Paso County

AQUIFER:

Holocene and Pleistocene
- 111ALFP--Alluvium, flood plain
- 111AVMT--Alluvium, terrace
- 111VLFL--Valley-fill deposits

Eocene
- 124DWSN--Dawson Arkose

Cretaceous
- 210DKOT--Dakota Group

Upper Cretaceous
- 211CRLL--Carlile Shale
- 211FXHL--Fox Hills Sandstone
- 211PIRR--Pierre Shale

Precambrian
- 400PCMB--Precambrian Erathem

UNITS:

micromhos = micromhos per centimeter at 25°C
°C = degree Celsius
mg/L = milligram per liter
µg/L = microgram per liter

1 milligram per liter = 1,000 micrograms per liter

Table 2.--*Chemical analyses of water from wells*--Continued

Site number on plate	Local well number	Site identification number	County	Aquifer	Date of sample (Y-M-D)	Depth of well (ft)	Depth to water below land surface (ft)	Specific conductance (micromhos)	pH (units)	Temperature (°C)	Hardness (Ca, Mg) (mg/L)	Noncarbonate hardness (mg/L)	Dissolved calcium (Ca) (mg/L)	Dissolved magnesium (Mg) (mg/L)
1	SC00806518CBC1	392107104430400	035	111ALFP	76-11-04	45	13.6	205	6.9	10.0	76	0	25	3.3
2	SC00806612CBB1	392210104440801	035	111AVMT	77-08-04	71	—	325	6.8	10.0	130	7	43	5.6
3	SC00806614DAD1	392107104441400	035	111VLFL	76-11-23	5	3.3	105	6.1	8.0	39	10	12	2.2
4	SC00806711BAB1	392230104513900	035	111AVMT	58-02-04	80	—	446	6.9	12.0	175	86	58	7.3
4	SC00806711BAB1	392230104513900	035	111AVMT	76-06-16	80	—	410	7.0	12.0	170	71	56	7.4
5	SC00806711DBD1	392157104511301	035	111AVMT	58-02-27	90	—	256	6.9	11.0	101	30	34	3.9
6	SC00806711DBD2	392202104511900	035	111AVMT	76-06-09	80	—	285	6.1	11.5	110	32	35	5.3
7	SC00806713BBD1	392134104504400	035	111ALFP	76-08-26	70	10.6	265	6.8	15.5	110	20	39	4.2
8	SC00806713CAA1	392115104502400	035	111ALFP	76-07-02	60	21.3	240	6.6	11.0	99	22	31	5.3
9	SC00806713DDC1	392054104495700	035	111ALFP	76-07-22	62	19.8	330	6.6	14.0	150	45	48	6.5
10	SC00806717ADB1	392131104543000	035	111VLFL	76-07-28	21	16.7	430	6.7	11.0	180	75	65	5.0
11	SC00806722DAC1	392016104521400	035	111ALFP	76-06-18	17	12.4	490	6.6	15.0	200	99	66	8.1
12	SC00806724DBB1	392020104502200	035	124DWSN	76-07-09	68	12.8	820	7.0	13.0	360	220	130	9.5
13	SC00806726LALD1	391934104511700	035	124DWSN	76-09-01	77	14.1	555	6.6	11.0	250	200	90	5.5
14	SC00806727ABC1	391950104523000	035	111ALFP	76-07-22	53	14.4	245	6.6	12.0	78	24	25	3.7
15	SC00806727ACD1	391936104522500	035	111ALFP	76-06-03	52	13.8	205	5.7	11.5	70	0	23	3.6
16	SC00806734BCA1	391848104525600	035	111ALFP	76-07-16	76	10.1	255	6.7	13.5	76	0	24	4.0
18	SC00806809DBC1	392159105001900	035	111ALFP	76-08-06	52	—	200	6.5	12.0	75	12	24	3.6
19	SC00806816CCB1	392059105005900	035	111VLFL	76-07-27	41	—	285	6.6	12.0	130	26	41	6.7
20	SC00806826LAC1	391926104582600	035	111AVMT	76-07-29	50	29.4	1515	6.9	11.0	690	460	220	34

Table 2.--*Chemical analyses of water from wells*--Continued

Site number on plate 1	Dissolved sodium (Na) (mg/L)	Sodium adsorption ratio	Dissolved potassium (K) (mg/L)	Bicarbonate (HCO_3) (mg/L)	Carbonate (CO_3) (mg/L)	Alkalinity as $CaCO_3$ (mg/L)	Dissolved sulfate (SO_4) (mg/L)	Dissolved chloride (Cl) (mg/L)	Dissolved fluoride (F) (mg/L)	Dissolved silica (SiO_2) (mg/L)	Dissolved solids (sum of constituents) (mg/L)	Dissolved nitrate (NO_3) (mg/L)	Dissolved nitrite plus nitrate (N) (mg/L)	Dissolved ortho phosphorus (P) (mg/L)	Dissolved arsenic (As) (µg/L)	Dissolved boron (B) (µg/L)	Dissolved iron (Fe) (µg/L)	Dissolved manganese (Mn) (µg/L)	Dissolved selenium (Se) (µg/L)
1	10	0.5	3.2	110	0	90	9.3	3.9	0.4	39	150	—	0.20	0.09	3	40	60	60	1
2	15	.6	2.5	150	0	120	27	6.6	.5	33	214	—	1.5	.16	6	40	80	40	2
3	2.1	.1	1.4	36	0	30	12	1.9	.1	26	77	—	.01	.15	0	20	1100	110	0
4	19	.6	3.6	108	0	89	85	22	.3	36	296	12	—	—	—	—	570	0	—
4	15	.5	3.4	121	0	99	75	17	.3	32	279	—	2.9	.18	0	40	20	10	5
5	10	.4	3.0	86	0	71	34	5.0	.3	38	184	14	—	--	—	—	0	0	—
6	11	.5	3.8	94	0	77	37	9.5	.3	31	195	—	3.3	.25	3	—	30	0	4
7	10	.4	2.1	115	0	94	34	6.1	.4	29	183	—	.06	.01	0	30	1300	90	0
8	10	.4	3.5	94	0	77	38	6.7	.2	31	182	—	2.0	.28	1	10	.0	0	4
9	13	.5	4.0	124	0	102	40	8.9	.4	34	237	—	4.4	.38	3	20	20	0	4
10	17	.5	1.3	132	0	108	47	40	.3	34	279	—	1.0	.06	1	20	10	0	1
11	20	.6	6.1	121	0	99	100	24	.7	28	318	—	1.2	.01	0	60	4/20	60	6
12	29	.7	5.9	170	C	139	250	19	.6	70	613	—	3.3	.15	5	40	90	40	100
13	17	.5	3.4	53	0	43	220	7.1	.3	44	417	—	.36	.03	0	20	1500	220	0
14	9.0	.4	3.4	66	0	54	32	10	1.5	26	156	—	.10	.00	3	30	11000	1200	0
15	7.2	.4	1.8	103	0	84	5.5	3.1	1.5	31	135	—	.00	.22	1	—	6700	570	0
16	11	.5	15	93	0	76	20	14	1.7	21	159	—	.15	.01	1	40	1200	310	0
18	11	.6	2.4	77	0	63	20	6.4	2.0	18	127	—	.42	.02	0	20	20	0	0
19	7.7	.3	1.5	127	0	104	24	7.6	1.7	21	176	—	.41	.02	1	20	20	10	1
20	79	1.3	7.2	277	0	227	200	95	.6	42	1160	—	77	.19	1	50	10	20	17

Table 2.--*Chemical analyses of water from wells*--Continued

Site number on plate	Local well number	Site identification number	County	Aquifer	Date of sample (Y-M-D)	Depth of well (ft)	Depth to water below land surface (ft)	Specific conductance (micromhos)	pH (units)	Temperature (°C)	Hardness (Ca, Mg) (mg/L)	Noncarbonate hardness (mg/L)	Dissolved calcium (Ca) (mg/L)	Dissolved magnesium (Mg) (mg/L)
21	SC00906528BBA1	391441104403600	035	111ALFP	77-02-11	27	—	230	6.6	10.0	86	19	27	4.6
22	SC00906529BBB1	391440104415200	035	111ALFP	77-02-10	25	18.0	180	6.9	13.0	69	10	21	3.9
23	SC00906617DBC1	391556104480200	035	111ALFP	76-09-10	20	—	305	7.0	14.0	120	40	36	6.7
24	SC00906623DAD1	391501104441300	035	111VLFL	76-11-23	19	12.5	290	6.7	10.0	120	34	35	7.6
25	SC00906635BCB1	391339104451800	035	111ALFP	76-11-22	19	14.3	225	6.8	9.0	110	30	34	5.2
26	SC00906635DDD1	391303104441300	035	111AVMT	77-02-17	41	31.8	575	6.8	8.0	250	100	75	14
27	SC00906707BAA1	391721104555800	035	124DWSN	76-06-03	103	—	120	5.3	10.0	43	19	13	2.5
28	SC00906716DCD1	391542104533200	035	111ALFP	76-06-03	10	3.9	455	5.7	13.0	160	110	46	10
29	SC00906727CBD1	391412104525500	035	124DWSN	76-08-20	102	43.7	285	6.5	10.5	110	72	35	6.0
30	SC00906733DDD1	391304104531300	035	111ALFP	76-05-25	10	9.0	720	5.6	12.0	240	210	70	15
31	SC00906734BCB1	391337104530200	035	111ALFP	76-05-05	11	5.6	175	5.2	9.0	59	16	19	2.9
32	SC00906802BAD1	391809104581600	035	111AVMT	76-06-10	74	40.8	370	6.1	13.0	150	31	47	7.8
34	SC00906809CDD1	391636105002500	035	111ALFP	76-08-03	55	16.6	158	6.6	10.0	60	6	19	3.1
35	SC00906813BBD1	391619104572500	035	111ALFP	76-05-27	69	15.5	310	6.6	13.0	120	19	36	6.8
36	SC00906813BCA1	391614104572500	035	111ALFP	76-06-02	65	14.6	350	6.5	11.5	150	38	45	9.3
37	SC00906815DAA1	391604104584600	035	111ALFP	76-05-27	50	4.1	340	6.9	16.0	140	30	47	6.1
38	SC00906825BDC1	391424104571600	035	111ALFP	76-06-02	72	—	150	6.1	10.5	56	6	15	4.4
39	SC00906835AAB1	391351104575300	035	111ALFP	76-05-12	41	7.5	118	7.4	10.0	42	7	13	2.3
40	SC00906836CBA1	391327104572000	035	111ALFP	76-05-26	23	9.9	195	6.2	14.0	72	9	22	4.1
41	SC01006506BBC1	391253104430000	035	111AVMT	77-02-09	12	9.3	265	6.9	7.0	96	0	31	4.6

Table 2.--*Chemical analyses of water from wells*--Continued

Site number on plate 1	Dissolved sodium (Na) (mg/L)	Sodium adsorption ratio	Dissolved potassium (K) (mg/L)	Bicarbonate (HCO_3) (mg/L)	Carbonate (CO_3) (mg/L)	Alkalinity as $CaCO_3$ (mg/L)	Dissolved sulfate (SO_4) (mg/L)	Dissolved chloride (Cl) (mg/L)	Dissolved fluoride (F) (mg/L)	Dissolved silica (SiO_2) (mg/L)	Dissolved solids (sum of constituents) (mg/L)	Dissolved nitrate (NO_3) (mg/L)	Dissolved nitrite plus nitrate (N) (mg/L)	Dissolved ortho phosphorus (P) (mg/L)	Dissolved arsenic (As) (µg/L)	Dissolved boron (B) (µg/L)	Dissolved iron (Fe) (µg/L)	Dissolved manganese (Mn) (µg/L)	Dissolved selenium (Se) (µg/L)
21	8.8	0.4	1.5	82	0	67	17	9.1	0.3	37	158	—	2.5	0.35	1	20	40	0	2
22	6.9	.4	2.0	71	0	58	8.3	3.5	.3	34	129	—	3.1	.18	2	20	40	10	2
23	11	.4	3.7	94	0	77	31	10	.4	35	208	—	6.1	.25	7	20	90	10	1
24	9.1	.4	3.1	103	0	84	17	8.2	.3	28	194	—	7.7	.30	4	30	10	0	1
25	12	.5	1.9	93	0	76	16	8.8	.3	33	172	—	3.1	.33	2	20	20	0	1
26	16	.4	1.6	172	0	141	32	35	.3	31	361	—	16	.29	6	30	0	0	3
27	2.5	.2	3.1	29	0	24	20	2.8	.2	26	93	—	1.9	.07	1	—	80	0	1
28	21	.7	4.9	62	0	51	33	76	.2	19	270	—	6.5	.03	0	—	40	0	1
29	9.5	.4	3.3	49	0	40	44	13	.4	25	196	—	8.0	.01	0	30	10	10	2
30	25	.7	41	32	0	26	100	44	.4	30	528	—	42	.32	1	—	70	0	16
31	8.2	.5	4.5	53	0	43	28	6.4	1.2	22	122	—	.81	.04	0	—	60	10	1
32	16	.6	2.7	145	0	119	62	7.6	1.7	20	239	—	.46	.10	0	—	30	0	7
34	7.0	.4	1.8	66	0	54	11	1.8	2.1	16	98	—	.70	.02	1	10	30	10	1
35	18	.7	2.6	120	0	98	46	5.8	1.3	17	199	—	1.3	.05	0	—	30	10	11
36	16	.6	2.8	137	0	112	60	5.9	2.0	15	225	—	.00	.01	1	—	1100	110	1
37	12	.4	3.5	137	0	112	46	11	1.7	15	212	—	.47	.07	0	—	30	100	3
38	6.1	.4	2.2	61	0	50	16	2.7	1.3	17	96	—	.23	.03	0	—	130	20	1
39	7.3	.5	1.1	43	0	35	17	4.2	2.0	11	80	—	.18	.00	0	—	20	0	1
40	8.4	.4	3.1	76	0	62	28	2.4	2.0	16	125	—	.28	.02	0	—	60	0	1
41	19	.8	1.4	127	0	104	16	8.9	.4	34	185	—	.52	1.3	12	110	260	30	1

Table 2.--*Chemical analyses of water from wells*--Continued

Site number on plate	Local well number	Site identification number	County	Aquifer	Date of sample (Y-M-D)	Depth of well (ft)	Depth to water below land surface (ft)	Specific conductance (micromhos)	pH (units)	Temperature (°C)	Hardness (Ca, Mg) (mg/L)	Noncarbonate hardness (mg/L)	Dissolved calcium (Ca) (mg/L)	Dissolved magnesium (Mg) (mg/L)
42	SC0100652 1BCA1	391006104404201	035	111ALFP	77-05-05	17	10.4	335	6.9	6.0	110	15	32	6.1
43	SC0100652BBAB1	390926104403200	035	111AVMT	77-02-17	30	—	200	6.5	7.0	79	3	23	5.2
46	SC0100661 3CCC1	391031104441200	035	111VLFL	76-11-24	19	13.4	255	7.0	9.0	69	0	21	3.9
47	SC0100662 2DBA1	390956104454300	035	111VLFL	76-11-19	8	.8	195	6.7	8.0	64	0	22	2.3
48	SC0100662BDDD1	390846104463001	035	111AVMT	77-04-22	16	9.5	155	7.0	7.0	59	17	18	3.3
49	SC0100670 4ACD1	391241104533200	035	111ALFP	76-08-18	20	7.5	130	6.4	17.0	45	0	15	1.9
50	SC0100670BBAC1	391201104545900	035	111ALFP	76-05-13	41	—	205	6.8	15.0	71	34	21	4.5
51	SC0100671 6ACD1	391057104533100	035	111ALFP	76-06-18	17	6.9	165	6.7	8.5	54	11	17	2.9
52	SC0100672 0ACA1	391007104543700	035	111ALFP	76-05-25	65	16.2	165	6.0	15.0	64	17	19	3.9
53	SC0100672 9BAA1	390931104545500	035	111AVMT	76-05-25	50	17.4	95	6.2	8.0	32	3	10	1.7
54	SC0110651 6DCC1	390512104400901	041	124DWSN	77-04-29	—	21.1	200	6.2	8.0	68	30	22	3.2
54	SC0110651 6DCC1	390512104400901	041	124DWSN	73-03-06	—	—	323	6.2	6.0	120	72	38	5.7
55	SC0110651 7CCA1	390521104414301	041	111VLFL	77-05-04	24	12.3	160	6.4	7.5	50	8	16	2.5
56	SC0110652 0CDD1	390418104412501	041	111VLFL	77-04-29	50	15.6	470	6.8	7.5	180	77	56	8.6
58	SC0110660 3CCA1	390701104462000	041	111AVMT	77-02-18	60	—	135	6.2	9.0	47	6	14	2.8
59	SC0110661 5CDB1	390514104460901	041	124DWSN	77-07-28	50	—	590	6.5	8.5	240	170	74	14
60	SC0110673 3CAB1	390252104535700	041	111VLFL	73-01-23	—	—	459	6.5	8.5	170	0	50	10
61	SC0120660 7BBB1	390138104494200	041	111VLFL	73-03-07	25	—	293	6.2	8.0	110	23	33	5.6
62	SC0120662 0BCB1	385937104484000	041	111VLFL	73-02-15	50	—	211	7.2	9.0	73	38	23	3.8
63	SC0120663 4BBB1	385808104462300	041	111ALFP	73-01-17	122	—	252	7.1	9.5	89	37	30	3.5

Table 2.--*Chemical analyses of water from wells*--Continued

Site number on plate 1	Dissolved sodium (Na) (mg/L)	Sodium adsorption ratio	Dissolved potassium (K) (mg/L)	Bicarbonate (HCO_3) (mg/L)	Carbonate (CO_3) (mg/L)	Alkalinity as $CaCO_3$ (mg/L)	Dissolved sulfate (SO_4) (mg/L)	Dissolved chloride (Cl) (mg/L)	Dissolved fluoride (F) (mg/L)	Dissolved silica (SiO_2) (mg/L)	Dissolved solids (sum of constituents) (mg/L)	Dissolved nitrate (NO_3) (mg/L)	Dissolved nitrite plus nitrate (N) (mg/L)	Dissolved ortho phosphorus (P) (mg/L)	Dissolved arsenic (As) (µg/L)	Dissolved boron (B) (µg/L)	Dissolved iron (Fe) (µg/L)	Dissolved manganese (Mn) (µg/L)	Dissolved selenium (Se) (µg/L)
42	27	1.1	1.9	110	0	90	37	16	0.5	29	209	—	0.88	0.49	2	40	80	40	0
43	8.4	.4	3.6	92	0	75	7.1	6.7	.1	27	134	—	1.5	.24	1	20	0	0	0
46	26	1.4	.9	86	0	71	37	10	.3	36	181	—	.02	.72	3	140	430	210	1
47	11	.6	3.1	83	0	68	9.7	5.3	.2	32	139	—	2.8	.01	0	40	0	0	2
48	5.6	.3	2.9	51	0	42	18	3.8	.2	29	111	—	.99	.20	1	40	60	0	1
49	5.4	.4	4.5	58	0	48	8.3	1.8	1.7	20	88	—	.10	.01	0	20	330	330	0
50	8.0	.4	5.6	45	0	37	19	7.7	1.0	18	109	—	3.4	.04	1	—	90	10	1
51	6.0	.4	5.9	53	0	43	26	3.1	.3	21	114	—	1.3	.03	0	20	120	120	2
52	5.1	.3	1.6	57	0	47	14	3.0	2.0	17	109	—	3.4	.04	0	—	90	10	1
53	4.2	.3	5.0	35	0	29	11	2.1	1.7	16	71	—	.34	.06	0	—	170	0	0
54	8.4	.4	2.4	47	0	39	13	15	.2	37	152	—	6.1	.11	0	20	50	0	1
54	9.8	.4	2.6	56	0	46	17	29	.1	36	219	—	12	.02	—	—	30	0	—
55	9.1	.6	2.2	52	0	43	12	3.6	.2	25	113	—	3.6	.13	0	10	40	20	1
56	23	.8	1.7	120	0	98	35	28	.2	25	308	—	16	.08	0	20	90	0	2
58	6.8	.4	1.9	49	0	40	15	2.9	.2	30	104	—	1.4	.08	0	20	60	10	1
59	16	.4	4.0	83	0	68	59	46	.1	27	387	—	24	.03	1	20	40	4	1
60	27	.9	3.0	209	0	171	26	13	1.8	25	283	—	5.4	.01	—	—	30	0	—
61	15	.6	3.7	101	0	83	53	.4	.4	30	200	—	.04	.04	—	—	8200	350	—
62	8.0	.4	3.0	43	0	35	47	4.4	.1	28	159	—	4.5	.01	—	—	100	0	—
63	13	.6	2.2	64	0	53	60	4.4	.6	30	181	—	1.2	.00	—	—	130	0	—

Table 2.--*Chemical analyses of water from wells*--Continued

Site number on plate 1	Local well number	Site identification number	County	Aquifer	Date of sample (Y-M-D)	Depth of well (ft)	Depth to water below land surface (ft)	Specific conductance (micromhos)	pH (units)	Temperature (°C)	Hardness (Ca, Mg) (mg/L)	Noncarbonate hardness (mg/L)	Dissolved calcium (Ca) (mg/L)	Dissolved magnesium (Mg) (mg/L)
65	SC01306506DABI	385651104421001	041	124DWSN	77-07-01	33	—	140	5.6	17.0	29	28	10	0.9
66	SC01306508ADBI	385618104411400	041	111VLFL	73-03-06	100	—	200	6.9	10.0	68	20	24	1.9
67	SC01306508DBAI	385601104411701	041	111AVMT	77-07-01	92	20.5	260	7.2	15.0	110	27	37	3.6
68	SC01306516CADI	385456104402301	041	111AVMT	77-07-15	73	14.7	480	7.2	15.0	170	62	58	5.7
69	SC01306527AAAI	385345104384800	041	111ALFP	76-10-21	62	15.0	855	7.6	10.0	270	28	100	4.2
71	SC01306609CACI	385551104471701	041	111AVMT	77-07-14	30	—	960	7.1	16.0	470	200	160	16
72	SC01306610ACDI	385603104454200	041	111VLFL	73-04-12	60	—	155	7.2	6.0	52	13	17	2.3
73	SC01306632AACI	385244104474601	041	211FXHL	77-07-12	46	—	690	6.7	22.0	440	210	140	21
74	SC01306714BACI	385519104513800	041	111VLFL	73-02-07	30	—	783	7.3	9.0	350	66	100	25
76	SC01306822AACI	385434104583000	041	111VLFL	73-04-09	33	—	282	7.0	6.0	110	9	34	6.1
77	SC01406504CCBI	385123104405000	041	111ALFP	76-10-20	60	—	230	7.0	10.5	80	39	27	3.0
78	SC01406505ADAI	385147104405800	041	111AVMT	76-10-21	57	35.6	480	7.1	11.0	160	67	57	4.2
79	SC01406507CCBI	385033104431000	041	111AVMT	76-10-19	78	53.8	485	7.0	12.0	180	78	66	4.7
80	SC01406508CCDI	385021104414900	041	111AVMT	76-10-19	46	40.7	260	7.1	12.5	96	74	33	3.3
81	SC01406527ACBI	384822104391101	041	111ALFP	77-07-06	110	30.5	850	7.5	14.5	260	60	92	6.7
82	SC01406527DDB4	384755104385201	041	111ALFP	77-07-06	80	23.4	780	7.8	14.0	230	22	79	7.2
84	SC01406601ADBI	385151104432400	041	124DWSN	76-10-22	92	42.0	1140	7.3	13.0	450	370	170	6.7
85	SC01406606ADAI	385152104485401	041	111AVMT	77-07-28	—	21.6	890	7.2	16.0	780	410	260	31
86	SC01406612CDDI	385025104434700	041	111ALFP	76-10-22	61	32.2	1600	6.6	14.0	360	140	120	15
87	SC01406613CCAI	384942104440800	041	111ALFP	76-10-21	24	12.6	445	7.4	13.0	180	30	60	7.6

Table 2.--*Chemical analyses of water from wells*--Continued

Site number on plate 1	Dissolved sodium (Na) (mg/L)	Sodium adsorption ratio	Dissolved potassium (K) (mg/L)	Bicarbonate (HCO_3) (mg/L)	Carbonate (CO_3) (mg/L)	Alkalinity as $CaCO_3$ (mg/L)	Dissolved sulfate (SO_4) (mg/L)	Dissolved chloride (Cl) (mg/L)	Dissolved fluoride (F) (mg/L)	Dissolved silica (SiO_2) (mg/L)	Dissolved solids (sum of constituents) (mg/L)	Dissolved nitrate (NO_3) (mg/L)	Dissolved nitrite plus nitrate (N) (mg/L)	Dissolved ortho phosphorus (P) (mg/L)	Dissolved arsenic (As) (µg/L)	Dissolved boron (B) (µg/L)	Dissolved iron (Fe) (µg/L)	Dissolved manganese (Mn) (µg/L)	Dissolved selenium (Se) (µg/L)
65	5.5	0.4	4.2	1	0	1	40	2.3	0.0	19	83	—	—	—	0	10	800	180	0
66	9.9	.5	2.9	58	0	48	39	3.4	.2	36	152	—	1.1	0.05	—	—	620	120	—
67	25	1.1	3.6	98	0	80	66	8.0	.4	22	214	—	—	—	0	30	30	20	0
68	38	1.3	2.8	130	0	107	130	9.2	.5	15	324	—	.02	.02	0	20	190	130	0
69	99	2.6	1.1	292	0	240	220	17	.5	15	604	—	.67	.01	1	50	0	190	0
71	53	1.1	1.0	320	0	260	200	32	.7	33	681	—	6.3	.03	0	30	50	0	6
72	9.2	.6	.7	47	0	39	21	1.5	.4	31	115	—	1.9	.08	—	—	40	0	—
73	55	1.1	2.0	280	0	230	290	18	.3	19	684	—	.05	.01	0	50	300	340	0
74	29	.7	4.5	349	0	286	98	18	5.8	23	498	—	5.1	.01	—	—	40	10	—
76	14	.6	1.9	123	0	101	19	6.0	2.7	19	170	—	1.6	.01	—	—	30	0	—
77	11	.5	2.4	50	0	41	21	5.6	.3	24	160	—	9.2	.15	1	20	70	10	1
78	33	1.1	1.7	113	0	93	81	7.9	.4	18	312	—	12	.02	0	30	40	0	3
79	32	1.0	1.9	130	0	107	100	24	.3	21	322	—	1.7	.02	1	20	40	10	2
80	9.7	.4	1.8	27	0	22	21	15	.2	25	184	—	14	.05	1	7	20	0	1
81	97	2.6	1.0	240	0	200	220	13	.7	16	572	—	1.7	.02	0	20	80	10	5
82	96	2.8	1.3	250	0	210	200	12	.7	14	535	—	.33	.02	0	20	60	120	4
84	84	1.7	4.1	101	0	83	460	31	.6	9.8	832	—	3.7	.02	0	30	0	10	11
85	100	1.6	1.9	450	0	370	580	25	.7	24	1260	—	4.3	.02	0	100	90	10	2
86	210	4.8	7.9	272	0	223	35	320	.2	45	1040	—	33	1.7	2	380	30	10	1
87	14	.5	8.6	184	0	151	21	24	.2	23	263	—	2.7	.19	3	150	610	1000	1

Table 2.--*Chemical analyses of water from wells*--Continued

Site number on plate 1	Local well number	Site identification number	County	Aquifer	Date of sample (Y-M-D)	Depth of well (ft)	Depth to water below land surface (ft)	Specific conductance (micromhos)	pH (units)	Temperature (°C)	Hardness (Ca, Mg) (mg/L)	Noncarbonate hardness (mg/L)	Dissolved calcium (Ca) (mg/L)	Dissolved magnesium (Mg) (mg/L)
88	SC0140613CCA2	384942104440900	041	111ALFP	76-10-21	56	—	225	7.1	16.0	84	46	27	4.0
89	SC0140614DDC1	384933104443300	041	111ALFP	76-10-20	14	8.1	900	7.5	12.0	450	210	130	30
90	SC0140620CDC1	384840104482201	041	111ALFP	77-07-07	17	8.5	1425	6.7	12.0	590	310	180	34
91	SC0140622BBC1	384921104463001	041	211PIRR	77-07-07	40	9.8	785	7.2	13.0	280	49	87	15
92	SC0140632AAD1	384738104473801	041	111AVMT	77-07-07	67	—	545	7.1	13.0	170	72	50	11
93	SC0140633DAA1	384718104463700	041	111AVMT	76-10-22	72	—	1275	7.1	12.5	590	300	160	47
94	SC0140703DBB1	385138104523100	041	211CRLL	74-03-29	73	—	4700	7.7	10.0	1600	1400	390	160
95	SC0140725DDD1	384750104500700	041	111ALFP	74-03-27	67	—	692	7.5	13.5	200	0	60	13
96	SC0140736BBA1	384742104504500	041	111ALFP	74-03-27	52	—	426	7.2	14.0	140	21	41	9.4
97	SC0140736BDC1	384721104503700	041	111ALFP	74-03-28	18	—	361	6.7	8.0	130	41	38	8.0
98	SC0150650 3AAB2	384652104382401	041	111ALFP	77-07-07	50	—	910	7.2	12.0	300	55	99	13
99	SC0150650 3ABA1	384648104390400	041	111VLFL	72-07-26	57	—	901	7.3	12.5	260	20	87	11
100	SC0150650 3ABB2	384552104391301	041	111ALFP	77-07-06	51	—	1200	7.4	13.0	430	190	140	20
102	SC0150651 8DBA1	384437104422600	041	111ALFP	77-07-07	36	—	910	7.4	16.0	340	110	100	23
103	SC0150652 2DBA1	384349104381300	041	111VLFL	72-08-10	78	—	1850	7.4	14.0	530	190	150	37
104	SC0150652 2DBB1	384347104390901	041	111ALFP	77-07-07	78	—	1700	—	14.0	490	170	140	35
105	SC0150652 7ADA1	384304104384800	041	111VLFL	72-08-10	—	—	3190	7.6	15.5	1300	1100	340	110
106	SC0150652 7CCB1	384247104393500	041	111VLFL	72-08-10	—	—	1590	7.7	19.0	400	160	120	25
107	SC0150652 8DCD1	384231104400601	041	111ALFP	55-05-06	59	—	1600	7.7	12.0	470	216	144	27
107	SC0150652 8DCD1	384231104400601	041	111ALFP	77-07-07	59	—	1450	7.3	12.0	480	220	150	25

Table 2.--*Chemical analyses of water from wells*--Continued

Site number on plate 1	Dissolved sodium (Na) (mg/L)	Sodium adsorption ratio	Dissolved potassium (K) (mg/L)	Bicarbonate (HCO_3) (mg/L)	Carbonate (CO_3) (mg/L)	Alkalinity as $CaCO_3$ (mg/L)	Dissolved sulfate (SO_4) (mg/L)	Dissolved chloride (Cl) (mg/L)	Dissolved fluoride (F) (mg/L)	Dissolved silica (SiO_2) (mg/L)	Dissolved solids (sum of constituents) (mg/L)	Dissolved nitrate (NO_3) (mg/L)	Dissolved nitrite plus nitrate (N) (mg/L)	Dissolved ortho phosphorus (P) (mg/L)	Dissolved arsenic (As) (µg/L)	Dissolved boron (B) (µg/L)	Dissolved iron (Fe) (µg/L)	Dissolved manganese (Mn) (µg/L)	Dissolved selenium (Se) (µg/L)
88	10	0.5	4.2	46	0	38	28	16	0.2	19	153	—	4.7	0.23	1	40	50	10	1
89	26	.5	2.0	286	0	235	230	17	.4	31	641	—	7.6	.08	1	50	40	10	7
90	110	2.0	9.1	340	0	280	410	63	3.3	15	1000	—	2.0	.01	0	490	700	1145	5
91	63	1.6	4.4	280	0	230	100	18	1.0	19	494	—	11	.01	0	100	50	8	8
92	42	1.4	4.0	120	0	98	120	17	3.0	19	340	—	3.3	.03	0	70	60	4	2
93	80	1.4	4.1	354	0	290	330	42	1.1	23	937	—	17	.01	0	170	0	0	6
94	640	6.9	8.0	320	0	262	2600	50	1.2	14	4080	—	14	.02	—	—	40	0	—
95	71	2.2	2.9	302	0	248	55	25	1.8	18	423	-	6.2	.02	—	—	10	0	—
96	27	1.0	2.8	146	0	120	23	19	1.7	20	256	—	9.0	.01	—	—	20	0	—
97	18	.7	2.7	106	0	87	26	23	1.7	15	209	—	5.5	.00	—	—	10	0	0
98	110	2.8	1.4	300	0	250	260	13	—	—	—	—	—	—	1	40	110	280	1
99	95	2.6	1.2	296	0	243	220	11	.6	16	590	—	.55	.00	—	—	70	210	—
100	130	2.7	1.3	290	0	240	430	18	.7	13	897	—	.07	.03	0	40	350	260	0
102	34	.8	4.4	280	0	230	180	34	—	—	—	—	—	—	1	250	40	4	3
103	230	4.4	2.3	410	0	336	630	41	.6	14	1320	—	3.9	.02	—	—	140	60	—
104	230	4.5	1.9	390	—	320	580	43	.6	14	1260	—	5.0	.02	0	260	160	40	4
105	340	4.1	4.8	304	0	249	1700	37	.5	13	2720	—	6.6	.02	—	—	140	40	—
106	210	4.6	2.2	299	0	245	570	31	.7	13	1120	—	.14	.01	—	—	210	70	—
107	—	—	—	310	0	254	—	23	—	—	—	—	—	—	—	—	—	—	—
107	220	4.4	2.1	310	0	250	590	31	.4	15	1210	—	4.2	.03	0	90	30	0	6

Table 2.--*Chemical analyses of water from wells*--Continued

Site number on plate	Local well number	Site identification number	County	Aquifer	Date of sample (Y-M-D)	Depth of well (ft)	Depth to water below land surface (ft)	Specific conductance (micromhos)	pH (units)	Temperature (°C)	Hardness (Ca, Mg) (mg/L)	Noncarbonate hardness (mg/L)	Dissolved calcium (Ca) (mg/L)	Dissolved magnesium (Mg) (mg/L)
108	SC0150653 1BDB1	384216104424501	041	111AVMT	77-08-04	48	—	950	7.3	9.0	430	150	120	32
109	SC0150653 3BDD1	384210104402601	041	111ALFP	77-07-15	70	17.8	2050	7.4	12.0	600	330	180	37
110	SC0150653 3CBD1	384158104404401	041	111ALFP	55-05-04	39	—	—	7.6	11.5	318	12	102	15
111	SC0150660 1DDB1	384610104432400	041	111VLFL	72-08-10	83	—	471	7.5	15.0	160	19	52	7.0
112	SC0150660 3BAC1	384639104461401	041	111AVMT	77-07-29	85	63.7	875	6.9	17.5	300	110	82	24
114	SC0150660 3CAB1	384622104460901	041	111AVMT	77-07-14	49	—	975	6.9	15.0	400	140	110	30
115	SC0150660 3CAD2	384618104460600	041	111VLFL	72-05-04	39	—	782	6.9	10.5	230	17	63	17
116	SC0150660 3DCA1	384611104454600	041	111VLFL	72-05-04	72	—	741	7.0	12.0	280	67	82	18
118	SC0150661 0AAB1	384554104453600	041	111VLFL	72-05-04	53	—	753	6.6	11.0	260	70	71	19
119	SC0150661 0AAD1	384548104452801	041	111ALFP	77-07-29	45	—	760	7.0	15.0	260	110	74	19
122	SC0150661 1CBB1	384533104452000	041	111VLFL	72-05-04	50	—	793	6.7	11.0	240	79	69	17
123	SC0150661 1CDA1	384517104445501	041	111ALFP	54-11-23	70	—	610	7.1	11.5	237	72	82	3.9
124	SC0150661 1CDB1	384518104450501	041	111ALFP	77-07-08	41	—	850	6.8	11.0	280	120	79	19
126	SC0150661 3BCC2	384442104441201	041	111AVMT	77-07-08	75	—	800	6.8	13.0	260	91	79	14
127	SC0150661 4AAC1	384459104443401	041	111VLFL	55-05-07	76	—	620	7.7	13.0	204	60	64	11
131	SC0150662 4BAA1	384413104434601	041	111VLFL	72-08-10	74	—	916	7.2	15.0	410	190	120	26
131	SC0150662 4BAA1	384413104434601	041	111VLFL	77-07-15	74	—	885	7.1	16.0	350	130	100	25
132	SC0150662 4BAD2	384402104434800	041	111VLFL	72-08-10	73	—	797	7.3	14.5	280	110	85	17
133	SC0150662 4DBA1	384346104433300	041	111VLFL	72-08-10	60	—	759	7.4	15.0	290	100	87	18
134	SC0150662 4DCA1	384333104433201	041	111ALFP	77-07-15	28	17.6	860	7.0	14.0	300	110	78	26

Table 2.--*Chemical analyses of water from wells*--Continued

Site number on plate 1	Dissolved sodium (Na) (mg/L)	Sodium adsorption ratio	Dissolved potassium (K) (mg/L)	Bicarbonate (HCO_3) (mg/L)	Carbonate (CO_3) (mg/L)	Alkalinity as $CaCO_3$ (mg/L)	Dissolved sulfate (SO_4) (mg/L)	Dissolved chloride (Cl) (mg/L)	Dissolved fluoride (F) (mg/L)	Dissolved silica (SiO_2) (mg/L)	Dissolved solids (sum of constituents) (mg/L)	Dissolved nitrate (NO_3) (mg/L)	Dissolved nitrite plus nitrate (N) (mg/L)	Dissolved ortho phosphorus (P) (mg/L)	Dissolved arsenic (As) (µg/L)	Dissolved boron (B) (µg/L)	Dissolved iron (Fe) (µg/L)	Dissolved manganese (Mn) (µg/L)	Dissolved selenium (Se) (µg/L)
108	89	1.9	2.5	340	0	280	210	45	1.6	15	722	—	8.7	0.07	0	300	10	4	7
109	270	4.8	3.0	330	0	270	800	48	.5	14	1520	—	1.9	.01	0	170	40	0	2
110	188	4.6	2.9	—	0	—	430	25	.2	—	1075	0.8	—	—	—	—	—	—	—
111	32	1.1	2.3	170	0	139	76	3.6	.4	22	302	—	5.1	.05	—	—	30	10	—
112	79	2.0	4.9	240	0	200	190	36	1.3	22	595	—	8.4	.06	1	230	20	8	4
114	75	1.6	3.7	310	0	250	210	41	.8	24	689	—	9.3	.07	0	190	20	0	4
115	66	1.9	7.4	257	0	211	130	38	2.4	18	477	—	.71	1.0	—	—	30	2700	—
116	49	1.3	3.6	258	0	212	130	28	1.0	23	481	—	4.4	.01	—	—	10	0	—
118	59	1.6	5.8	226	0	185	150	34	1.7	23	492	—	3.8	.22	—	—	20	8	—
119	62	1.7	5.2	190	0	160	170	36	1.5	21	508	—	5.4	.40	1	270	10	4	1
122	68	1.9	5.5	199	0	163	170	37	2.0	23	506	—	3.7	.05	—	—	20	88	—
123	—	.2	—	183	0	—	50	18	.8	—	500	5.2	—	—	—	—	—	—	—
124	77	—	7.7	190	0	160	200	39	2.3	21	545	—	5.6	.04	0	230	10	0	0
126	56	1.5	3.3	200	0	160	140	31	.9	25	475	—	6.2	.05	0	140	20	4	1
127	56	1.7	2.2	177	0	145	141	13	.5	21	409	13	—	—	—	—	20	—	—
131	41	.9	2.9	261	0	214	190	33	.8	21	598	—	7.8	.03	—	—	20	0	—
131	53	1.2	3.1	270	0	220	180	36	.8	20	588	—	8.1	.26	0	80	50	0	2
132	54	1.4	3.9	215	0	176	160	34	1.2	21	509	—	6.2	.03	—	—	30	20	—
133	48	1.2	2.9	230	0	189	150	22	.9	22	493	—	6.6	.02	—	—	100	60	—
134	73	1.8	4.7	240	0	200	180	33	1.0	15	557	—	6.3	.01	0	180	70	8	0

Table 2.--*Chemical analyses of water from wells*--Continued

Site number on plate	Local well number	Site identification number	County	Aquifer	Date of sample (Y-M-D)	Depth of well (ft)	Depth to water below land surface (ft)	Specific conductance (micromhos)	pH (units)	Temperature (°C)	Hardness (Ca, Mg) (mg/L)	Noncarbonate hardness (mg/L)	Dissolved calcium (Ca) (mg/L)	Dissolved magnesium (Mg) (mg/L)
135	SC01506714BDA1	384450104513200	041	400PLMB	74-01-25	—	—	223	8.0	13.5	98	24	35	2.6
136	SC01506736ACC1	384208104501600	041	111ALFP	73-12-04	85	—	279	7.2	11.0	110	6	30	9.1
137	SC01506736BAC1	384218104503400	041	111ALFP	73-12-06	24	—	156	7.4	8.0	59	8	17	4.1
138	SC01606502AAD1	383759104373800	041	211PIRR	74-10-17	40	—	9560	—	16.0	4100	3700	940	420
139	SC01606504BBB1	384132104405100	041	111VLFL	72-08-10	45	—	4140	7.7	12.0	1600	1300	450	120
141	SC01606505CCB1	384056104415601	041	111VLFL	77-07-11	50	—	1165	7.2	14.0	420	140	110	35
142	SC01606505DDB1	384054104410601	041	111AVMT	72-07-26	—	—	2840	7.3	13.5	950	630	250	80
142	SC01606505DDB1	384054104410601	041	111AVMT	77-08-04	—	—	2200	7.1	12.0	900	580	240	72
143	SC01606506ACC1	384113104423101	041	111AVMT	77-07-08	44	25.7	1040	7.4	13.0	330	150	94	24
144	SC01606508DBA1	384018104411501	041	111AVMT	77-07-12	57	31.5	1775	7.3	12.0	620	380	170	48
146	SC01606516BBA1	383952104404001	041	111ALFP	72-07-26	60	—	2060	7.2	14.5	750	490	210	55
146	SC01606516BBA1	383952104404001	041	111ALFP	77-07-13	60	37.2	1875	7.2	12.5	670	400	190	47
149	SC01606520AAA1	383859104410201	041	111AVMT	77-07-13	53	28.1	1790	7.2	13.0	620	360	190	47
150	SC01606520DCA1	383821104411400	041	111VLFL	72-07-19	43	—	1240	7.1	11.5	400	170	110	30
151	SC01606521BBA1	383857104404501	041	111VLFL	77-07-13	56	—	1790	7.0	12.0	610	330	170	44
152	SC01606528BCD1	383747104404501	041	111AVMT	77-07-13	26	17.7	3250	7.2	12.0	1100	770	270	110
153	SC01606615DBA1	383921104454301	041	111ALFP	77-07-14	39	4.5	925	7.2	11.5	350	150	86	33
154	SC01606615DBB1	383924104455200	041	111VLFL	74-03-25	60	—	987	7.3	11.0	380	160	96	33
155	SC01606702DDB1	384049104510800	041	210DKOT	73-11-29	17	—	278	7.5	7.0	120	21	38	7.1
156	SC01606703ADD1	384122104520700	041	400PLMB	73-12-05	145	—	649	7.8	6.0	220	0	44	26

Table 2.--*Chemical analyses of water from wells*--Continued

Site number on plate 1	Dissolved sodium (Na) (mg/L)	Sodium adsorption ratio	Dissolved potassium (K) (mg/L)	Bicarbonate (HCO_3) (mg/L)	Carbonate (CO_3) (mg/L)	Alkalinity as $CaCO_3$ (mg/L)	Dissolved sulfate (SO_4) (mg/L)	Dissolved chloride (Cl) (mg/L)	Dissolved fluoride (F) (mg/L)	Dissolved silica (SiO_2) (mg/L)	Dissolved solids (sum of constituents) (mg/L)	Dissolved nitrate (NO_3) (mg/L)	Dissolved nitrite plus nitrate (N) (mg/L)	Dissolved ortho phosphorus (P) (mg/L)	Dissolved arsenic (As) (µg/L)	Dissolved boron (B) (µg/L)	Dissolved iron (Fe) (µg/L)	Dissolved manganese (Mn) (µg/L)	Dissolved selenium (Se) (µg/L)
135	8.7	0.4	1.3	90	0	74	29	1.0	2.1	13	138	—	0.08	0.01	—	—	10	20	0
136	13	.5	1.6	130	0	107	23	4.5	.7	17	173	—	2.1	.08	—	—	20	0	—
137	7.4	.4	1.9	63	0	52	18	2.0	1.3	13	96	—	.11	.02	—	—	80	20	—
138	760	5.2	12	413	0	339	2000	400	.5	23	7990	—	730	.05	—	—	20	200	—
139	480	5.2	4.7	342	0	281	2300	64	.5	16	3690	—	19	.01	—	—	90	40	—
141	110	2.3	4.8	340	0	280	270	52	1.8	17	788	—	4.3	.03	0	260	60	20	3
142	340	4.8	4.1	395	0	324	1300	69	.9	18	2280	—	5.3	.00	—	—	40	40	—
142	290	4.2	3.6	390	0	320	1100	62	.8	15	2010	—	6.7	.06	0	320	40	40	9
143	96	2.3	6.9	220	0	180	250	58	2.0	17	666	—	1.5	.16	1	230	60	1080	0
144	210	3.7	3.1	290	0	240	710	51	1.4	14	1380	—	6.7	.01	0	260	20	4	5
146	210	3.3	3.2	318	0	261	870	52	.8	18	1600	—	4.8	.01	—	—	40	20	—
146	200	3.4	3.0	330	0	270	680	57	1.0	16	1390	—	6.6	.01	0	230	40	0	9
149	200	3.5	4.5	310	0	250	640	58	2.2	16	1320	—	6.3	.01	0	220	60	4	2
150	120	2.6	6.4	277	0	227	350	54	2.4	19	841	—	2.7	.24	—	—	20	40	—
151	200	3.5	3.3	340	0	280	620	59	1.7	16	1310	—	6.0	.02	0	220	50	0	10
152	410	5.3	4.2	430	0	350	1400	94	1.6	16	2530	—	2.2	.01	0	460	1300	30	5
153	69	1.6	2.0	250	0	210	290	9.1	1.8	12	628	—	.35	.01	0	80	670	20	1
154	79	1.8	2.4	261	0	214	300	8.4	2.1	13	664	—	.26	.00	—	—	150	0	—
155	6.9	.3	1.4	126	0	103	29	1.9	2.2	13	162	—	.14	.03	—	—	20	0	—
156	62	1.8	1.9	291	0	239	100	6.3	2.5	12	398	—	.03	.02	—	—	10	0	—

Table 2.--*Chemical analyses of water from wells*--Continued

Site number on plate	Local well number	Site identification number	County	Aquifer	Date of sample (Y-M-D)	Depth of well (ft)	Depth to water below land surface (ft)	Specific conductance (micromhos)	pH (units)	Temperature (°C)	Hardness (Ca, Mg) (mg/L)	Noncarbonate hardness (mg/L)	Dissolved calcium (Ca) (mg/L)	Dissolved magnesium (Mg) (mg/L)
157	SC0160729BDC1	383746104550300	041	400PLMB	73-12-06	36	—	289	7.2	7.0	130	21	37	9.9

Table 2.--*Chemical analyses of water from wells*--Continued

Site number on plate 1	Dissolved sodium (Na) (mg/L)	Sodium adsorption ratio	Dissolved potassium (K) (mg/L)	Bicarbonate (HCO_3) (mg/L)	Carbonate (CO_3) (mg/L)	Alkalinity as $CaCO_3$ (mg/L)	Dissolved sulfate (SO_4) (mg/L)	Dissolved chloride (Cl) (mg/L)	Dissolved fluoride (F) (mg/L)	Dissolved silica (SiO_2) (mg/L)	Dissolved solids (sum of constituents) (mg/L)	Dissolved nitrate (NO_3) (mg/L)	Dissolved nitrite plus nitrate (N) (mg/L)	Dissolved ortho phosphorus (P) (mg/L)	Dissolved arsenic (As) (µg/L)	Dissolved boron (B) (µg/L)	Dissolved iron (Fe) (µg/L)	Dissolved manganese (Mn) (µg/L)	Dissolved selenium (Se) (µg/L)
157	8.9	0.3	2.0	137	0	112	33	2.9	0.1	18	181	—	0.26	0.06	—	—	90	0	—

Table 3.--*Records of springs*

EXPLANATION OF DATA

COUNTY:
035 = Douglas County
041 = El Paso County

AQUIFER:
Holocene and Pleistocene
111ALFP--Alluvium, flood plain
111AVMT--Alluvium, terrace
111VLFL--Valley-fill deposits
Oligocene
123CRCK--Castle Rock Conglomerate
Eocene
124DWSN--Dawson Arkose
Paleozoic
300PLZC--Paleozoic Erathem

USE OF WATER:
H = Domestic
I = Irrigation
S = Stock watering
U = Unused

Table 3.--*Records of springs*--Continued

Site number on plate 1	Local spring number	Site identification number	County	Aquifer	Discharge (gal/min)		Date discharge determined	Use of water	Altitude of land surface (ft)	Chemical analysis in table 4
					Measured	Estimated or reported				
S1	SC00806520BBA1	392050104415000	035	124DWSN	—	1.0	11-2-76	S	6480	Yes
S2	SC00806626CDA1	391920104445400	035	124DWSN	—	6.0	9-24-76	H	6500	Yes
S3	SC00806725ADC1	391934104500100	035	111VLFL	18.0	—	6-24-76	S	6490	Yes
S4	SC00806735ABC1	391854104512100	035	111VLFL	—	S	9-1-76	H	6640	Yes
S5	SC00806817CAA1	392118105013400	035	111ALFP	—	.75	8-11-76	H	6360	Yes
S6	SC00806823ABA1	392044104575500	035	111ALFP	—	.1	8-11-76	S	6100	Yes
S7	SC00806823DBB1	392021104580400	035	111VLFL	—	.1	7-29-76	S	6120	Yes
S8	SC00806823DCB1	392008104580700	035	111VLFL	—	.1	7-29-76	U	6125	Yes
S9	SC00806826DBA1	391929104575700	035	111VLFL	—	.1	7-29-76	U	6175	Yes
S10	SC00906521CCD1	391449104404000	035	123CRCK	2.0	—	2-11-77	S	6870	Yes
S11	SC00906608BCC1	391654104484300	035	123CRCK	—	3.0	9-17-76	H	6990	Yes
S12	SC00906610BDB1	391709104461100	035	111VLFL	—	1.5	9-10-76	U	6610	Yes
S13	SC00906610BDC1	391658104460500	035	111VLFL	—	.25	9-16-76	S	6620	Yes
S14	SC00906617DBC1	391556104470900	035	111VLFL	—	.1	9-10-76	S	6725	Yes
S15	SC00906630BCA1	391431104493800	035	111VLFL	—	.5	11-19-76	S	6925	Yes
S16	SC00906635BAA1	391352104445300	035	111VLFL	—	3.0	11-23-76	S	6835	Yes
S17	SC00906701DBB1	391742104501500	035	111VLFL	—	.5	7-9-76	S	6655	Yes
S18	SC00906706DAD1	391740104552700	035	111AVMT	—	.1	6-2-76	S	6760	Yes
S19	SC00906713BBC1	391622104505500	035	123CRCK	—	4.0	6-24-76	S	6920	Yes
S20	SC00906722CDB1	391455104524700	035	111ALFP	1.8	—	7-3-76	S	6638	Yes

Table 3.--*Records of springs*--Continued

Site number on plate 1	Local spring number	Site identification number	County	Aquifer	Discharge (gal/min)		Date discharge determined	Use of water	Altitude of land surface (ft)	Chemical analysis in table 4
					Measured	Estimated or reported				
S21	SC0090672 4AABI	391531104500200	035	124DWSN	1.3	—	6-25-76	S	6915	Yes
S22	SC0090672 7ABDI	391434104522600	035	124DWSN	—	2.0	6-25-76	H	6685	Yes
S23	SC0090673 0CDDI	391356104555800	035	124DWSN	—	2.0	5-26-76	H	6690	Yes
S24	SC0090673 4BBCI	391341104530700	035	111AVMT	—	1.0	5-5-76	H	6480	Yes
S25	SC0090680 3ADDI	391752104584900	035	111AVMT	2.5	—	6-10-76	S	6250	Yes
S26	SC0090680 9DCBI	391640105002100	035	111ALFP	—	.5	8-3-76	H	6515	Yes
S27	SC0100650 7BBBI	391204104430000	035	124DWSN	2.0	—	2-10-77	S	6970	Yes
S28	SC0100651 9ABDI	391012104421600	035	111VLFL	—	5.0	11-24-76	S	7085	Yes
S29	SC0100651 9ACAI	391008104421800	035	111VLFL	—	.5	11-24-76	S	7095	Yes
S30	SC0100653 1CDCI	390747104424101	035	111ALFP	—	.5	5-6-77	S	7320	Yes
S31	SC0100653 3BDBI	390821104402901	035	111ALFP	.4	—	5-3-77	S	7160	Yes
S32	SC1006601 DBAI	391232104432500	035	111VLFL	—	5	11-24-76	S	6955	Yes
S33	SC0100661 8ABBI	391114104491300	035	111VLFL	—	.1	11-18-76	S	7040	Yes
S34	SC0100662 5DACI	390854104431501	035	111VLFL	.7	—	5-6-77	S	7260	Yes
S35	SC0100670 6ADAI	391248104553100	035	111AVMT	—	2.0	5-13-76	H	6765	Yes
S36	SC0100672 3CBDI	390947104515300	035	111VLFL	—	2.0	11-18-76	S	7000	Yes
S37	SC0100672 8DBAI	390901104533300	035	111VLFL	—	2.0	6-16-76	S	7120	Yes
S38	SC0100673 2AAAI	390839104542300	035	111AVMT	—	2.0	5-4-76	S	7220	Yes
S39	SC0100673 5CAAI	390808104513100	035	111VLFL	—	3.0	11-18-76	S	7215	Yes
S40	SC0110650 9BABI	390651104403001	041	111ALFP	—	3.0	5-4-77	S	7260	Yes

Table 3.--*Records of springs*--Continued

Site number on plate 1	Local spring number	Site identification number	County	Aquifer	Discharge (gal/min)		Date discharge determined	Use of water	Altitude of land surface (ft)	Chemical analysis in table 4
					Measured	Estimated or reported				
S41	SC01106603BBD1	390738104461700	041	111VLFL	60.0	—	3-10-77	S	7239	Yes
S42	SC01106622DDB1	390426104453501	041	111AVMT	.5	—	4-22-77	S	7495	Yes
S43	SC01106710CCB1	390607104530300	041	111AVMT	—	0.1	5-12-76	H	6970	Yes
S44	SC01106715ACB1	390543104523301	041	111ALFP	—	1.0	7-28-77	U	6921	Yes
S45	SC01406705CAB1	385136104550400	041	300PLZC	--	—	—	—	—	Yes
S46	SC01406706DCA1	385130104554200	041	300PLZC	—	—	—	U	—	Yes
S47	SC01406736DDC1	384655104500400	041	111AVMT	—	—	—	I	6170	Yes

Table 4.--*Chemical analyses of water from springs*

EXPLANATION OF DATA

COUNTY:

035 = Douglas County
041 = El Paso County

AQUIFER:

Holocene and Pleistocene
- 111ALFP--Alluvium, flood plain
- 111AVMT--Alluvium, terrace
- 111VLFL--Valley-fill deposits

Oligocene
- 123CRCK--Castle Rock Conglomerate

Eocene
- 124DWSN--Dawson Arkose

Paleozoic
- 300PLZC--Paleozoic Erathem

UNITS:

micromhos = micromhos per centimeter at 25°C
°C = degree Celsius
mg/L = milligram per liter
µg/L = microgram per liter

1 milligram per liter = 1,000 micrograms per liter

Table 4.--*Chemical analyses of water from springs*--Continued

Site number on plate 1	Local spring number	Site identification number	County	Aquifer	Date of sample (Y-M-D)	Discharge (gal/min) Measured	Discharge (gal/min) Estimated or reported	Specific conductance (micromhos)	pH (units)	Temperature (°C)	Hardness (Ca, Mg) (mg/L)	Noncarbonate hardness (mg/L)	Dissolved calcium (Ca) (mg/L)	Dissolved magnesium (Mg) (mg/L)
S1	SC00806520BBA1	392050104415000	035	124DWSN	76-11-02	—	1.0	185	6.9	9.0	73	0	24	3.2
S2	SC00806626CDA1	391920104445400	035	124DWSN	76-09-24	—	6.0	170	6.8	11.0	67	0	21	3.6
S3	SC00806725ADC1	391934104500100	035	111VLFL	76-06-24	18.0	—	425	7.3	12.5	180	57	63	6.4
S4	SC00806735ABC1	391854104512100	035	111VLFL	76-09-01	—	5	195	6.7	19.0	71	17	24	2.7
S5	SC00806817CAA1	392118105013400	035	111ALFP	76-08-11	—	.75	235	6.5	10.0	85	5	28	3.7
S6	SC00806823ABA1	392044104575500	035	111ALFP	76-08-11	—	.1	135	6.4	15.0	58	4	19	2.5
S7	SC00806823DBB1	392021104580400	035	111VLFL	76-07-29	—	.1	140	6.5	15.0	56	15	18	2.6
S8	SC00806823DCB1	392008104580700	035	111VLFL	76-07-29	—	.1	190	6.7	15.0	79	10	26	3.5
S9	SC00806826DBA1	391929104575700	035	111VLFL	76-07-29	—	.1	165	6.5	10.0	70	12	22	3.7
S10	SC00906521CCD1	391449104404000	035	123CRCK	77-02-11	2.0	—	175	6.5	7.0	68	14	21	3.8
S11	SC00906608BCC1	391654104484300	035	123CRCK	76-09-17	—	3.0	165	6.7	20.0	65	21	20	3.6
S12	SC00906610BDB1	391709104461100	035	111VLFL	76-09-10	—	1.5	320	6.7	11.0	130	16	42	6.8
S13	SC00906610BDC1	391658104460500	035	111VLFL	76-09-16	—	.25	265	7.1	17.0	110	0	36	5.3
S14	SC00906617DBC1	391556104470900	035	111VLFL	76-09-10	—	.1	540	7.4	13.0	240	0	76	12
S15	SC00906630BCA1	391431104493800	035	111VLFL	76-11-19	—	.5	225	6.9	5.0	88	31	27	5.1
S16	SC00906635BAA1	391352104445300	035	111VLFL	76-11-23	—	3.0	540	7.0	6.0	240	0	74	13
S17	SC00906701DBB1	391742104501500	035	111VLFL	76-07-09	—	.5	118	6.4	17.5	42	5	13	2.3
S18	SC00906706DAD1	391740104552700	035	111AVMT	76-06-02	—	.1	90	5.3	12.0	34	14	10	2.1
S19	SC00906713BBC1	391622104505500	035	123CRCK	76-06-24	—	4.0	175	6.9	18.0	71	0	21	4.5
S20	SC00906722CDB1	391455104524700	035	111ALFP	76-07-03	1.8	—	185	6.6	11.0	71	28	22	3.8

Table 4.--*Chemical analyses of water from springs*--Continued

Site number on plate 1	Dissolved sodium (Na) (mg/L)	Sodium adsorption ratio	Dissolved potassium (K) (mg/L)	Bicarbonate (HCO_3) (mg/L)	Carbonate (CO_3) (mg/L)	Alkalinity as $CaCO_3$ (mg/L)	Dissolved sulfate (SO_4) (mg/L)	Dissolved chloride (Cl) (mg/L)	Dissolved fluoride (F) (mg/L)	Dissolved silica (SiO_2) (mg/L)	Dissolved solids (sum of constituents) (mg/L)	Dissolved nitrate (NO_3) (mg/L)	Dissolved nitrite plus nitrate (N) (mg/L)	Dissolved ortho phosphorus (P) (mg/L)	Dissolved arsenic (As) (µg/L)	Dissolved boron (B) (µg/L)	Dissolved iron (Fe) (µg/L)	Dissolved manganese (Mn) (µg/L)	Dissolved selenium (Se) (µg/L)
S1	8.3	0.4	2.4	99	0	81	10	2.8	0.4	39	140	—	0.20	0.17	5	30	50	0	1
S2	8.0	.4	1.5	93	0	76	7.0	1.7	.4	35	127	—	.49	.09	5	20	60	0	1
S3	18	.6	2.7	155	0	127	50	8.9	.8	44	307	—	8.1	.26	4	30	20	0	5
S4	11	.6	.2	66	0	54	24	3.6	.5	44	161	—	4.2	.02	0	4	30	10	3
S5	14	.7	2.2	98	0	80	15	9.8	2.3	20	144	—	.09	.03	0	20	0	0	0
S6	3.1	.2	1.5	66	0	54	9.8	2.1	.7	31	103	—	.15	.03	0	30	80	130	1
S7	3.9	.2	1.7	50	0	41	14	2.2	.3	28	106	—	2.4	.03	0	20	0	0	1
S8	6.7	.3	1.8	85	0	70	14	6.3	.3	28	131	—	.54	.04	1	20	10	0	4
S9	2.6	.1	2.1	71	0	58	11	1.5	.3	25	115	—	2.5	.07	1	20	40	10	3
S10	5.5	.3	1.9	66	0	54	10	5.7	.3	40	132	—	2.4	.24	1	10	20	0	2
S11	5.4	.3	1.6	53	0	43	23	2.9	.2	34	124	—	1.5	.05	1	20	210	30	1
S12	14	.5	3.1	143	0	117	20	9.6	.5	32	211	—	2.6	.30	1	30	20	0	1
S13	12	.5	3.7	149	0	122	8.1	4.9	.6	40	185	—	.15	.10	0	50	120	160	0
S14	35	1.0	.6	309	0	253	23	17	1.2	42	361	—	.13	.20	50	50	20	50	0
S15	8.8	.4	1.5	70	0	57	34	7.2	.3	30	150	—	.27	.16	0	20	40	10	1
S16	27	.8	1.7	308	0	253	18	20	.6	37	345	—	.00	.19	2	60	180	790	0
S17	5.6	.4	4.2	45	0	37	14	5.4	.1	32	99	—	.02	.09	1	50	170	20	1
S18	2.5	.2	1.4	24	0	20	19	2.3	.3	28	81	—	.82	.02	0	—	140	0	1
S19	5.7	.3	2.0	86	0	71	9.9	3.3	.3	39	130	—	.26	.20	4	30	230	330	0
S20	6.6	.3	3.5	52	0	43	27	7.4	.2	27	138	—	3.2	.09	0	10	20	10	1

Table 4.--*Chemical analyses of water from springs*--Continued

Site number on plate	Local spring number	Site identification number	County	Aquifer	Date of sample (Y-M-D)	Discharge (gal/min)		Specific conductance (micromhos)	pH (units)	Temperature (°C)	Hardness (Ca, Mg) (mg/L)	Noncarbonate hardness (mg/L)	Dissolved calcium (Ca) (mg/L)	Dissolved magnesium (Mg) (mg/L)
						Measured	Estimated or reported							
S21	SC00906724AABI	391531104500200	035	124DWSN	76-06-25	1.3	—	175	6.5	9.0	56	8	17	3.2
S22	SC00906727ABDI	391434104522600	035	124DWSN	76-06-25	—	2.0	110	6.6	9.0	35	16	11	1.9
S23	SC00906730CDDI	391356104555800	035	124DWSN	76-05-26	—	2.0	195	5.6	10.0	80	29	23	5.4
S24	SC00906734BBCI	391341104530700	035	111AVMT	76-05-05	—	1.0	290	6.7	12.0	88	65	27	5.1
S25	SC00906803ADDI	391752104584900	035	111AVMT	76-06-10	2.5	—	490	7.5	15.0	150	0	42	11
S26	SC00906809DCBI	391640105002100	035	111ALFP	76-08-03	—	.5	162	6.6	11.0	64	4	20	3.3
S27	SC01006507BBBI	391204104430000	035	124DWSN	77-02-10	2.0	—	95	6.1	5.0	26	10	8.4	1.3
S28	SC01006519ABDI	391012104421600	035	111VLFL	76-11-24	—	5.0	225	6.0	9.0	83	1	25	5.1
S29	SC01006519ACAI	391008104421800	035	111VLFL	76-11-24	—	.5	310	6.6	5.0	120	.7	34	7.8
S30	SC01006531CDCI	390747104424101	035	111ALFP	77-05-06	—	.5	135	6.4	7.0	45	5	13	3.0
S31	SC01006533BDBI	390821104402901	035	111ALFP	77-05-03	.4	—	345	6.5	7.0	120	56	37	5.4
S32	SC01006601DBAI	391232104432500	035	111VLFL	76-11-24	—	5	100	7.4	5.5	30	14	9.0	1.9
S33	SC01006618ABBI	391114104491300	035	111VLFL	76-11-18	—	.1	125	6.2	5.5	32	0	10	1.8
S34	SC01006625DACI	390854104431501	035	111VLFL	77-05-06	.7	—	225	7.6	18.5	78	18	24	4.5
S35	SC01006706ADAI	391248104553100	035	111AVMT	76-05-13	—	2.0	163	6.8	6.5	62	25	19	3.6
S36	SC01006723CBDI	390947104515300	035	111VLFL	76-11-18	—	2.0	150	7.2	9.0	43	4	14	2.0
S37	SC01006728DBAI	390901104533300	035	111VLFL	76-06-16	—	2.0	65	5.9	13.0	30	17	9.4	1.7
S38	SC01006732AAAI	390839104542300	035	111AVMT	76-05-04	—	2.0	155	5.9	10.0	56	36	17	3.3
S39	SC01006735CAAI	390808104513100	035	111VLFL	76-11-18	—	3.0	165	7.1	5.0	.66	1	20	3.8
S40	SC01106509BABI	390651104403001	041	111ALFP	77-05-04	—	3.0	150	6.7	9.0	46	15	14	2.8

Table 4.--*Chemical analyses of water from springs*--Continued

Site number on plate 1	Dissolved sodium (Na) (mg/L)	Sodium adsorption ratio	Dissolved potassium (K) (mg/L)	Bicarbonate (HCO_3) (mg/L)	Carbonate (CO_3) (mg/L)	Alkalinity as $CaCO_3$ (mg/L)	Dissolved sulfate (SO_4) (mg/L)	Dissolved chloride (Cl) (mg/L)	Dissolved fluoride (F) (mg/L)	Dissolved silica (SiO_2) (mg/L)	Dissolved solids (sum of constituents) (mg/L)	Dissolved nitrate (NO_3) (mg/L)	Dissolved nitrite plus nitrate (N) (mg/L)	Dissolved ortho phosphorus (P) (mg/L)	Dissolved arsenic (As) (µg/L)	Dissolved boron (B) (µg/L)	Dissolved iron (Fe) (µg/L)	Dissolved manganese (Mn) (µg/L)	Dissolved selenium (Se) (µg/L)
S21	6.5	0.4	0.9	58	0	48	17	3.8	0.2	36	120	—	1.5	0.18	4	10	0	0	2
S22	3.3	.2	2.6	24	0	20	14	5.0	.1	28	87	—	1.9	.16	1	10	80	0	0
S23	5.9	.3	3.1	62	0	51	32	8.0	.3	24	133	—	.00	.06	1	—	30	20	0
S24	16	.7	3.5	29	0	24	55	17	.3	25	196	—	7.4	.01	0	—	90	10	2
S25	51	1.8	1.9	226	0	185	60	5.8	1.4	17	311	—	2.2	.02	1	—	0	0	5
S26	6.0	.3	1.8	72	0	59	9.9	1.8	2.0	17	100	—	.54	.02	1	8	150	10	1
S27	4.7	.4	.8	20	0	16	11	1.4	.1	27	75	—	2.4	.07	1	20	20	0	2
S28	8.9	.4	3.2	100	0	82	19	4.7	.2	26	145	—	.01	.20	1	40	2000	260	0
S29	13	.5	12	134	0	110	22	13	.2	22	191	—	.08	.05	2	100	400	330	0
S30	6.4	.4	3.3	48	0	39	18	3.1	.1	24	98	—	.06	.10	1	60	2600	250	0
S31	14	.6	11	71	0	58	25	16	.2	30	233	—	13	.53	1	30	30	0	3
S32	4.8	.4	1.3	20	0	16	19	3.0	.1	23	76	—	.76	.02	1	30	270	20	1
S33	10	.8	2.1	45	0	37	12	2.2	.2	24	92	—	1.4	.23	1	40	110	20	2
S34	11	.5	5.2	74	0	61	39	3.0	.2	22	146	—	.07	.00	1	40	70	10	0
S35	4.6	.3	3.9	46	0	38	26	6.1	.2	25	116	—	1.2	.00	1	—	30	0	2
S36	8.0	.5	7.7	48	0	39	24	5.2	.3	15	100	—	.00	.04	0	60	180	20	1
S37	1.8	.1	1.4	16	0	13	17	2.1	.2	29	76	—	1.1	.05	0	5	20	0	1
S38	5.2	.2	2.7	24	0	20	37	1.8	2.7	19	102	—	.31	.01	0	—	30	110	0
S39	5.1	.3	3.7	79	0	65	5.6	3.5	.2	24	107	—	.29	.13	0	30	130	80	0
S40	6.7	.4	3.8	39	0	32	23	6.2	.1	19	100	—	1.0	.06	0	20	90	80	1

Table 4.--*Chemical analyses of water from springs*--Continued

Site number on plate	Local spring number	Site identification number	County	Aquifer	Date of sample (Y-M-D)	Discharge (gal/min) Measured	Discharge (gal/min) Estimated or reported	Specific conductance (micromhos)	pH (units)	Temperature (°C)	Hardness (Ca, Mg) (mg/L)	Noncarbonate hardness (mg/L)	Dissolved calcium (Ca) (mg/L)	Dissolved magnesium (Mg) (mg/L)
S41	SCO1106603BBD1	390738104461700	041	111VLFL	77-02-18	60.0	—	150	6.8	6.0	53	8	16	3.2
S42	SCO1106622DDB1	390426104453501	041	111AVMT	77-04-22	.5	—	150	6.9	7.0	53	19	16	3.1
S43	SCO1106710CCB1	390607104530300	041	111AVMT	76-05-12	—	0.1	235	7.2	8.0	86	35	26	5.0
S44	SCO1106715ACB1	390543104523301	041	111ALFP	77-07-28	—	1.0	200	6.4	12.0	72	23	23	3.5
S45	SCO1406705CAB1	385136104550400	041	300PLZC	74-03-29	—	—	3920	6.6	14.0	1400	0	430	81
S46	SCO1406706DCA1	385130104554200	041	300PLZC	74-03-29	—	—	2940	6.3	10.0	540	0	170	29
S47	SCO1406736DDC1	384655104500400	041	111AVMT	74-03-28	—	—	454	7.1	10.0	160	3	44	12

Table 4.--*Chemical analyses of water from springs*--Continued

Site number on plate 1	Dissolved sodium (Na) (mg/L)	Sodium adsorption ratio	Dissolved potassium (K) (mg/L)	Bicarbonate (HCO_3) (mg/L)	Carbonate (CO_3) (mg/L)	Alkalinity as $CaCO_3$ (mg/L)	Dissolved sulfate (SO_4) (mg/L)	Dissolved chloride (Cl) (mg/L)	Dissolved fluoride (F) (mg/L)	Dissolved silica (SiO_2) (mg/L)	Dissolved solids (sum of constituents) (mg/L)	Dissolved nitrate (NO_3) (mg/L)	Dissolved nitrite plus nitrate (N) (mg/L)	Dissolved ortho phosphorus (P) (mg/L)	Dissolved arsenic (As) (µg/L)	Dissolved boron (B) (µg/L)	Dissolved iron (Fe) (µg/L)	Dissolved manganese (Mn) (µg/L)	Dissolved selenium (Se) (µg/L)
S41	6.2	0.4	3.8	55	0	45	14	4.6	0.1	26	108	—	1.5	0.17	0	20	20	0	1
S42	7.7	.5	1.5	41	0	34	15	4.9	.2	23	106	—	3.1	.08	0	10	60	10	1
S43	9.2	.4	3.2	62	0	51	19	13	.7	19	157	—	7.0	.00	0	—	10	0	1
S44	6.3	.3	2.3	59	0	48	21	6.9	.4	32	138	—	3.1	.01	1	30	50	10	1
S45	450	5.2	73	2440	0	2000	190	210	3.1	38	2680	—	.31	.09	—	—	230	1800	—
S46	480	9.0	80	1510	0	1240	220	180	4.5	68	1990	—	.03	.11	—	—	13000	840	—
S47	30	1.0	1.8	190	0	156	42	15	1.0	18	275	—	4.0	.02	—	—	50	0	—

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