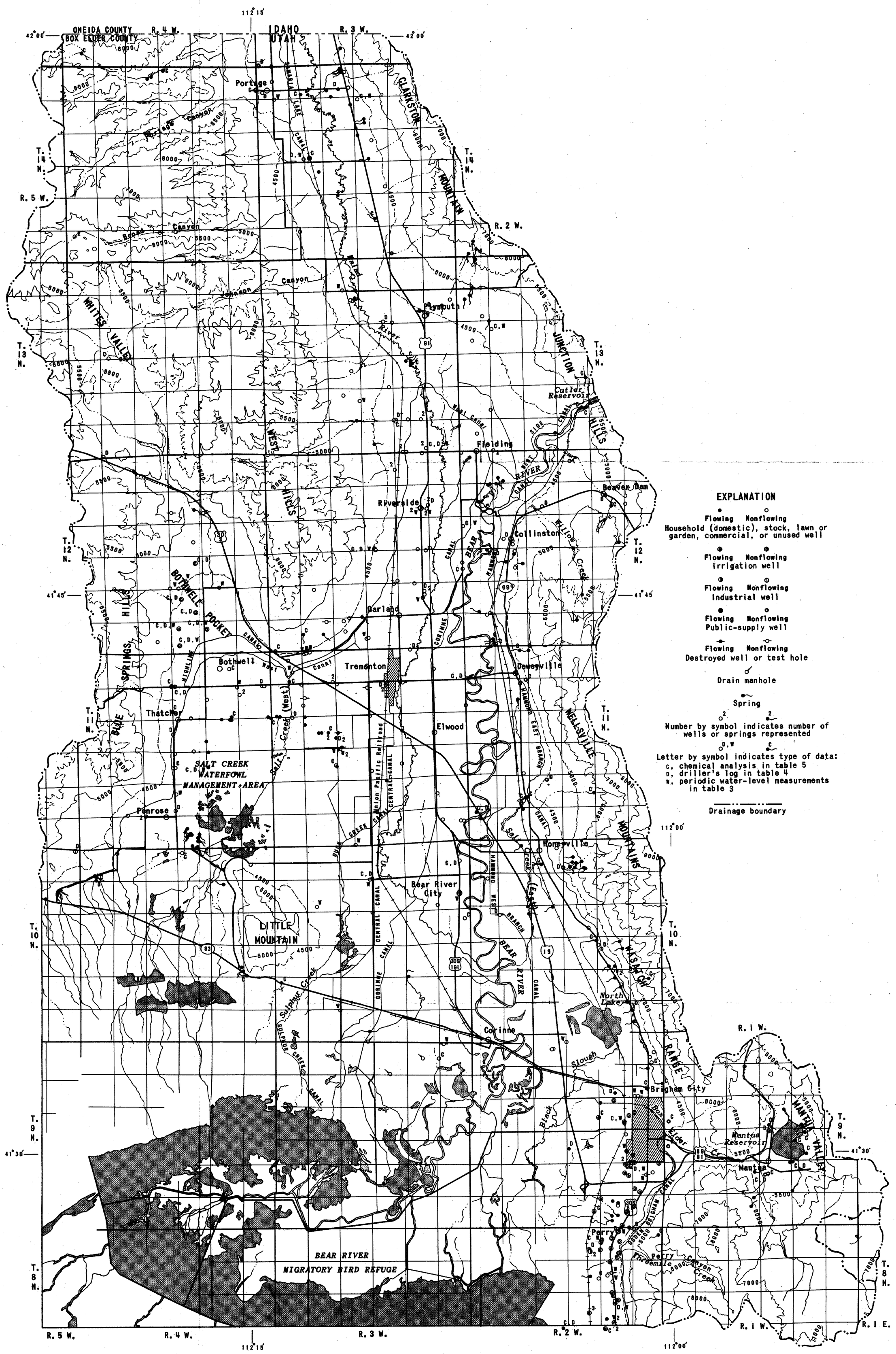

Base from U.S. Geological Survey 1:24,000 series maps

Hydrology by L. J. Bjorklund and L. J. McGreevy, 1972

MAP OF LOWER BEAR RIVER DRAINAGE BASIN, UTAH, SHOWING LOCATIONS OF SELECTED WELLS AND SPRINGS

UTAH BASIC-DATA RELEASE NO. 23

SELECTED HYDROLOGIC DATA, LOWER BEAR RIVER DRAINAGE BASIN, BOX ELDER COUNTY, UTAH

by

L. J. Bjorklund and L. J. McGreevy

OPEN-FILE RELEASE

Prepared by
The United States Geological Survey
in cooperation with
The Utah Department of Natural Resources
Division of Water Rights

Salt Lake City, Utah

1973

Contents

	Page
Introduction	1
Well- and spring-numbering system	1
Use of metric units	3
Selected references	4

Illustrations

Plate 1. Map of lower Bear River drainage basin showing locations of selected wells and springs	In pocket
Figure 1. Well- and spring-numbering system	2

Tables

Table 1. Records of selected wells	5
2. Records of selected springs	10
3. Water levels in selected observation wells	12
4. Selected drillers' logs of wells	16
5. Chemical analyses of water from selected wells and springs	20

SELECTED HYDROLOGIC DATA,

LOWER BEAR RIVER DRAINAGE BASIN,

BOX ELDER COUNTY, UTAH

by

L. J. Bjorklund and L. J. McGreevy

Introduction

This report presents selected basic data from a study of the ground-water resources of the lower Bear River drainage basin, Box Elder County, Utah. The study was made during 1970-72 by the U.S. Geological Survey in cooperation with the Utah Department of Natural Resources, Division of Water Rights. Incorporated in this report are data collected by the Geological Survey and by other organizations since 1935. This report is intended to make the data conveniently available and to supplement an interpretive report which will be published separately.

Well- and spring-numbering system

The system of numbering wells and springs in Utah is based on the cadastral land survey of the U.S. Government. The number identifies the well or spring and locates its position in the land net. By this system, the State is divided into four quadrants by the Salt Lake base line and meridian, and these quadrants are designated by the uppercase letters A, B, C, and D, thus: A, for the northeast quadrant; B, for the northwest; C, for the southwest; and D, for the southeast quadrant. Numbers designating the township and range, respectively, follow the quadrant letter, and the three are enclosed in parentheses. The number after the parentheses designates the section, and the lowercase letters following the section number give the location within the section. The first letter indicates the quarter section, which is generally a tract of 160 acres[1/]; the second letter indicates the 40-acre tract, and the third letter indicates the 10-acre tract. The numbers that follow the letters indicate the serial number of the well or spring within the 10-acre tract. Thus well (B-11-3)17caa-1 is in the NE¼NE¼SW¼ sec. 17, T. 11 N., R. 3 W., and is the first well constructed or visited in that tract. (See fig. 1.)

1/ Although the basic land unit, the section, is theoretically a 1-mile square, many sections are irregular. Such sections are subdivided into 10-acre tracts, generally beginning at the southeast corner, and the surplus or shortage is taken up in the tracts along the north and west sides of the section.

Springs are numbered similarly except that they are designated by the letter S preceding the serial number. Thus (B-13-3)9aac-S1 is a spring in the SW¼NE¼NE¼ sec. 9, T. 13 N., R. 3 W.

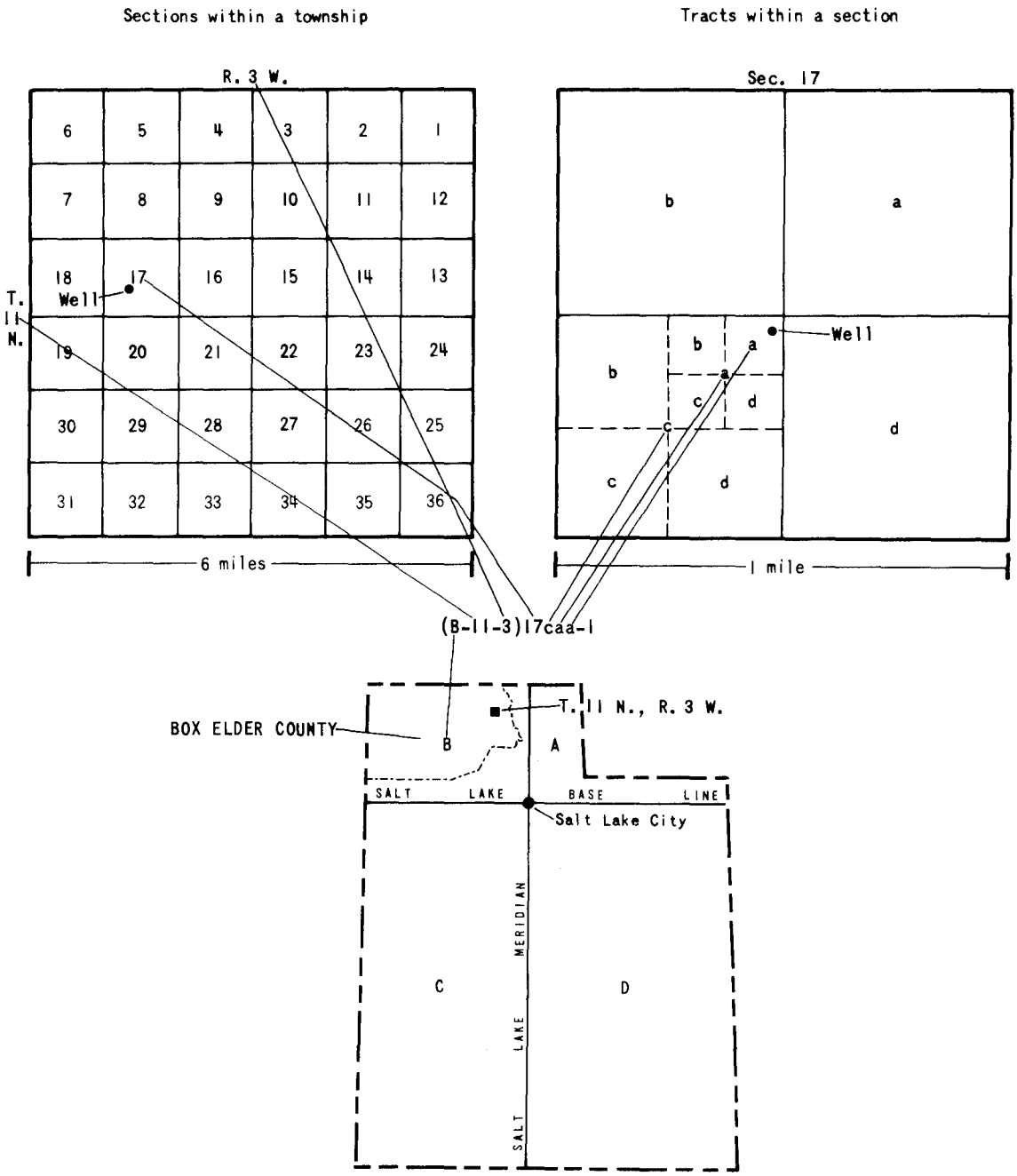

Figure 1.—Well- and spring-numbering system.

Use of metric units

The results of chemical analyses and temperature measurements are given in this report in metric units, rather than the more familiar English units. Temperatures are given in degrees Celsius, and analytical data are reported in milligrams per liter.

Degrees Celsius (°C) are the units used for reporting temperature in the metric system. One degree Celsius is equal to 9/5 degrees Fahrenheit, and the freezing point of water is 0° on the Celsius scale. Therefore, a temperature in °C = 5/9 (°F -32). The following table may be used to convert the temperature data given in this report to the more familiar Fahrenheit scale:

Temperature-conversion table

Temperatures in °C are rounded to nearest 0.5 degree. Underscored temperatures are exact equivalents. To convert from °F to °C where two lines have the same value for °F, use the line marked with an asterisk (*) to obtain equivalent °C.

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
-20.0	-4	-10.0	14	0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
-19.5	-3	-9.5	15	+0.5	33	10.5	51	20.5	69	30.5	87	40.5	105
-19.0	-2	-9.0	16	1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
-18.5	-1	-8.5	17	1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
-18.0 *	0	-8.0 *	18	2.0 *	36	12.0 *	54	22.0 *	72	32.0 *	90	42.0 *	108
-17.5	0	-7.5	18	2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
-17.0	1	-7.0	19	3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
-16.5	2	-6.5	20	3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
-16.0	3	-6.0	21	4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
-15.5	4	-5.5	22	4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
-15.0	5	-5.0	23	5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
-14.5	6	-4.5	24	5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
-14.0	7	-4.0	25	6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
-13.5	8	-3.5	26	6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
-13.0	9	-3.0	27	7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
-12.5	10	-2.5	28	7.5	46	17.5	64	27.5	82	37.5	100	47.5	118
-12.0 *	10	-2.0 *	28	8.0 *	46	18.0 *	64	28.0 *	82	38.0 *	100	48.0 *	118
-11.5	11	-1.5	29	8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
-11.0	12	-1.0	30	9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
-10.5	13	-0.5	31	9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

Milligrams per liter (mg/l) is a unit for expressing the concentration of chemical constituents in solution, and it represents the weight of solute per unit volume of water. For concentrations of less than about 7,000 mg/l, this unit is numerically equal to the unit parts per million (ppm), which was formerly used by the U.S. Geological Survey.

Selected references

Connor, J. G., Mitchell, C. G., and others, 1958, A compilation of chemical quality data for ground and surface waters in Utah: Utah State Engineer Tech. Pub. 10.

Meinzer, O. E., 1923, Outline of ground-water hydrology: U.S. Geol. Survey Water-Supply Paper 494, p. 53.

Utah State Department of Health, 1953, Chemical analyses on municipal water supplies of Utah: Salt Lake City, Utah.

_____1964-70, Water, wastewater--Chemical and radiological analyses, 1964-70 tabulations: Salt Lake City, Utah.

Table 1.--Records of selected wells

Location: See text for description of well-numbering system.
Finish: C, concrete; H, horizontal gallery; O, open end; P, perforated; S, screen; W, walled or shored; X, open hole.
Aquifer: Age - Q, Quaternary; T, Tertiary; Y, Paleozoic.
Material - C, conglomerate; G, gravel; L, limestone; P, clay; R, sand and gravel; S, sand; V, sandstone; W, siltstone; X, silty sand.
Altitude above mean sea level: Altitude of land-surface datum interpolated from topographic maps.
Water level: Measured except as indicated; d, reported by driller; e, estimated; f, flows but head is not known; r, reported by other than driller.
Method of lift: C, centrifugal pump; F, natural flow; J, jet pump; N, none; P, piston pump; S, submersible pump; T, turbine pump.
Yield: Rate - Measured except as indicated; d, reported by driller; e, estimated; r, reported by other than driller.
Specific capacity: Nonflowing wells computed from data as indicated; D, reported by driller; E, estimated; M, measured; R, reported by other than driller. Flowing wells computed by assuming that the shut-in head above the point of flow approximates the drawdown resulting from the flow. Specific capacities are approximate.
Use of water: C, commercial; H, household (domestic); I, irrigation; L, lawn or garden; N, industrial; P, public supply; S, stock; U, unused.
Temperature: Measured except as indicated. D, reported by driller; J, from geophysical log; R, reported by other than driller.
Specific conductance: Measured in field except as indicated; E, estimated from dissolved-solids content; J, from geophysical log; L, laboratory determination; R, reported.
Remarks and other data available: C, chemical analysis in table 5; Dl, driller's log in table 4; D, driller's log available in files of the Utah State Engineer or U.S. Geological Survey; J, geophysical log available in files of U.S. Geological Survey; W, periodic water-level measurements in table 3.

Location	Owner or user	Year constructed	Depth of well (feet)	Diameter of casing (inches)	Finish	Aquifer: Age	Aquifer: Material	Altitude above mean sea level (feet)	Water level: Above(+) or below(-) land-surface datum (feet)	Water level: Date of measurement	Method of lift	Yield: Rate (gpm)	Yield: Date of measurement	Specific capacity (gpm per ft of drawdown)	Use of water	Temperature (°C)	Specific conductance of water: Micromhos per cm at 25°C	Specific conductance of water: Date	Remarks and other data available
(B-8-2)1bbb-1	Town of Perry	-	270	-	P	Q	G	4,430	-	-	S	-	-	-	P	-	480E	1- -41	C.
2abb-1	do	1954	334	12	P	Q	G	4,342	-68d	8-20-54	N	750d	8-20-54	20D	U	-	-	-	Abandoned; salty water. Dl.
2acc-1	Steve Anderson	-	250	12	P	Q	G	4,426	-137	3- 9-71	T	-	-	-	I	-	-	-	
2bcb-1	Clark White	1961	128	12	P	Q	G	4,315	-31	3- 9-71	T	450e	-	15D	I	13.0	1,100	9- 2-70	Backfilled 20 ft to improve water quality. C, D, W.
2bcc-1	Leland Thorn	1954	80	12	P	Q	G	4,320	-	-	T	750r	-	-	I	13.5	430	5-27-70	D.
2bdb-1	Douglas Quayle	1930	163	12	P	Q	G	4,345	-41r	-	T	500r	-	83R	I	-	-	-	
2cab-1	Three Mile Irrigation Co.	1934	184	10	-	Q	G	4,385	-106d	6-29-34	T	670d	6-29-34	-	I	-	-	-	D.
2dcb-1	George Neilsen	1961	330	12	P	Q	G	4,480	-201d	7-10-61	T	800d	7-10-61	17D	I	-	-	-	D.
2dcc-1	do	-	-	-	-	Q	G	4,444	-162	3- 9-71	T	-	-	-	I	-	-	-	
3dad-1	Wayne Nelson	1930	180	8	P	Q	G	4,324	-34r	-	T	470	5-27-70	24R	I	13.5	380	5-27-70	
3dbd-6	Perry Canning Co.	1944	85	3	O	Q	G	4,266	f	-	F	60d	5-19-44	-	N	-	-	-	D.
3dbd-7	do	-	-	-	O	Q	G	4,264	+7e	-	F	4	7- 8-70	-	N	14.0	500	7- 8-70	Iron stains from water.
3dbd-8	C. L. Johnson	1948	77	4	O	Q	G	4,268	+10	3- 9-71	F	100	7- 8-70	14M	I	14.0	440	7- 8-70	Iron stains in ditch. Dl.
10daa-1	W. C. Bishing	1963	148	6	P	Q	G	4,290	-	-	N	-	-	-	U	-	2,140R	8-10-63	C.
11bab-7	Alfred Olsen	1947	200	12	P	Q	G	4,382	-96d	2- 2-47	T	-	-	-	I	-	-	-	D.
11bcd-1	R. M. Olds	1965	221	10	P	Q	G	4,315	-31d	5-17-65	S	-	-	-	C	-	-	-	D.
11bdc-1	J. A. Ward	1907	325	10	P	Q	G	4,334	-60	10- 5-35	N	-	-	-	U	-	-	-	Destroyed. W.
11cad-1	W. R. White	-	52	72	W	Q	G	4,314	-33	3- 9-71	C	-	-	-	H	-	-	-	W.
11cdc-1	Walter Kunzler	1915	45	72	W	Q	G	4,325	-29	3- 9-71	C	200r	-	40R	I	-	-	-	
14abc-1	T. L. Graser	1920	55	72	W	Q	G	4,340	-42	3- 9-71	C	300r	-	30R	I	-	-	-	
14baa-1	Earl Graser	1920	40	72	W	Q	G	4,315	-28	3- 9-71	T	150r	-	-	I	-	-	-	
14bad-1	T. L. Graser	1928	23	60	W	Q	G	4,310	-16	3- 9-71	C	10r	-	-	H	12.5	690	7-13-70	
14bda-1	Arthur Wells	1959	332	12	P	Q	G	4,315	-26	3- 9-71	T	390	7-20-70	13M	I	14.0	830	7-20-70	Dl, W.
14cca-1	Don Barker	1920	85	2	O	Q	G	4,283	+7	3-19-71	F	13	7-22-70	1	S	14.5	220	7-22-70	
14cdd-1	Calvin McIntire	-	105	-	-	Q	G	4,316	-12e	7-23-70	T	-	-	-	I	-	-	-	
14cdd-2	Fred Blacker	1920	60	72	W	Q	G	4,307	-16	3- 9-71	C	300e	-	-	I	-	-	-	W.
14cdd-3	Calvin McIntire	1958	105	8	P	Q	G	4,310	-12e	7-23-70	T	-	-	-	C	-	-	-	D.
14cdd-4	Fred Blacker	1967	125	10	P	Q	G	4,304	-10	7-22-70	S	100d	5-25-67	5D	H	-	-	-	D.
15dba-1	Arthur Wells	-	125	4	O	Q	G	4,247	f	-	F	50	7-20-70	-	I	14.5	480	7-20-70	
15dba-2	do	1950	200	4	O	Q	G	4,247	+14	7-21-70	F	18	7-21-70	2	I	14.5	300	7-21-70	D.
15dbd-1	do	1948	126	6	O	Q	G	4,247	f	-	F	100	7-21-70	-	I	14.5	300	7-21-70	D.
21aab-1	Willard Bay Gun Club	1965	567	2	S	Q	S	4,205	+21d	9-12-65	F	12d	9-12-65	.6	H	20.0D	3,120R	9-13-65	500 ft south of project area. C, Dl.
23bba-1	David Kunzler	1960	133	10	P	Q	G	4,282	+9	4- 1-71	F	200d	1- 1-60	20	I	14.5	240	7-21-70	500 ft south of project area. C, D.
(B-9-1)9abb-1	O'Dell George	1972	336	8	P	Y	L	5,675	-295d	12-28-71	S	10d	12-28-71	-	C	11.5D	560	3-22-72	D.
14cdd-1	Brigham City	1959	213	10	P	Q	G	5,225	-31	9-22-70	T	260d	1959	4D	P	-	235R	6-17-65	C, D.
18cbd-1	Brigham City	1929	205	12	P	Q	G	4,440	-84	3-19-71	T	-	-	-	P	-	445R	6-21-65	C, D.
19bcd-1	do	1946	412	12	P	Q	G	4,542	-175d	1946	T	-	-	-	P	-	490R	8-28-69	C, Dl.
22bab-1	D. L. Bunderson	1961	85	8	P	Q	G	5,170	-12d	1961	T	70d	1961	4D	I	-	-	-	Dl.
26bbb-1	Brigham City	1932	505	14	P	Q	G	5,168	+2	7-22-71	F	1e	-	-	U	-	240R	6-17-65	C, Dl.
27aaa-1	do	1932	485	10	P	Q	G	5,174	+2	7-22-71	F	-	-	-	U	-	-	-	D.
27bcd-1	do	1961	467	16	P	Q	G	5,221	-44	9-22-70	T	1,900d	12-20-61	37D	P	-	245R	8-28-69	C, Dl.
27bdc-1	do	-	310	-	-	Q	G	5,218	-40	9-22-70	T	-	-	-	P	-	220R	7-21-64	C.
(B-9-2)1bdb-1	F. R. Munns	1900	24	72	W	Q	G	4,272	-14r	-	J	-	-	-	H	-	640	10-23-70	
1bdd-1	U. W. Earl	1961	76	10	P	Q	G	4,275	-7	3-18-71	S	125d	1961	30D	S	-	-	-	D.
1dba-1	Frank Reeder	1960	135	12	P	Q	G	4,400	-11	3-18-71	N	-	-	-	U	-	-	-	D.
1dbc-1	do	1970	128	12	P	Q	G	4,300	-50d	2-11-60	T	-	-	-	S	-	-	-	D.
1dcc-1	A. T. and T. Co.	1970	181	8	S	Q	G	4,327	-45	3-11-71	S	18d	7-25-70	3D	H	-	495R	4-26-71	C, D.
3bbc-1	U.S. Geological Survey	1971	5	18	X	Q	S	4,224	-2	4- 5-72	N	-	-	-	U	-	70,900L	8- 5-71	Water-level recorder 8-5-71 to 10-14-71. D, W.
4acc-1	S. Hunsaker	1910	8	30	O	Q	S	4,227	-2	3-22-71	J	10e	-	2E	H	7.0	1,100	3-22-71	
4acc-2	do	1910	8	30	O	Q	S	4,227	-2	3-19-71	N	-	-	-	U	-	-	-	Brackish water reported.
11cda-1	D. L. Bunderson	1963	626	10	P	Q	G	4,245	+14	3-11-71	F	10e	-	-	S	16.5	900	9-17-70	Amber water. Dl.
12cad-1	Brigham City	1959	200	16	P	Q	G	4,295	f	-	T	120d	6-17-59	-	I	12.0D	525R	8-28-69	C, D.
12ccc-1	Glenn Marble	1915	350	8	P	Q	G	4,298	-7	9- 8-70	N	-	-	-	U	-	-	-	W.
12ccd-1	G. D. Reeder	1930	100	10	P	Q	G	4,301	-15	3-31-53	N	-	-	-	U	-	-	-	Destroyed, W.
13bcc-1	Leland Larsen	1910	50	72	W	Q	G	4,323	-26	3-11-71	T	450r	-	-	I	-	-	-	
14baa-1	Walter Mann	-	6	-	X	Q	G	4,250	-3	3-11-71	C	-	-	-	I	-	-	-	Ground-water pond.
14bbc-1	Brigham City	1956	457	8	O	Q	G	4,230	f	1956	F	300d	8-28-56	-	U	-	-	-	Well plugged with mud, 1971. D.
14daa-1	Emil Hirschi	1920	30	72	W	Q	G	4,310	-24	3-11-71	C	250r	-	-	I	-	-	-	
14dac-1	Knudson Bros.	1927	62	72	W	Q	G	4,303	-23	3- 9-71	T	220	9- 4-70	-	I	14.0	540	7- 1-71	C, D, W.
14ddb-1	Sam Tawatari	-	-	72	W	Q	G	4,305	-14	3-10-71	C	-	-	-	U	-	-	-	
15daa-1	Harold Reeder	1961	465	10	P	Q	G	4,232	+30	3-11-71	F	10	7-30-70	-	I	16.5	620	7-30-70	Amber water; lowest hardness recorded in area - 10 mg/l. C, D.

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

Location	Owner or user	Year constructed	Depth of well (feet)	Diameter of casing (inches)	Finish	Aquifer: Age	Aquifer: Material	Altitude above mean sea level (feet)	Water level: Above(+) or below(-) land-surface datum (feet)	Water level: Date of measurement	Method of lift	Yield: Rate (gpm)	Yield: Date of measurement	Specific capacity (gpm per ft of drawdown)	Use of water	Temperature (°C)	Specific conductance of water: Micromhos per cm at 25°C	Specific conductance of water: Date	Remarks and other data available
(B-9-2)22cbb-1	Delore Nichols	1969	682	10	P	Q	R	4,216	+5d	10-27-69	F	-	-	-	S	-	-	-	D1.
23aab-1	Sauk Manufacturing Co.	1951	285	12	P	Q	G	4,320	-1	3-10-71	T	1,100d	5- 6-51	-	U	-	-	-	D.
23dab-1	A. D. Romer	-	50	72	W	Q	G	4,331	-36	3- 9-71	T	300e	-	-	I	-	-	-	W.
23ddd-1	Rud Victor	-	50	72	W	Q	G	4,335	-36	7-31-70	T	200e	-	-	I	-	-	-	
24cbc-1	L. R. Olsen	1912	50	72	W	Q	G	4,355	-43	3-10-71	T	340	9- 2-70	-	I	14.5	560	9- 2-70	
24ccc-1	Ed Gould	-	45	72	W	Q	G	4,348	-37	3-10-71	C	200e	-	-	I	-	-	-	
25aab-1	Indian School	1942	150	12	P	Q	G	4,425	-62	3-10-71	T	500e	-	12E	I	14.5	550	7-28-70	
25acb-1	do	1943	288	16	P	Q	G	4,370	-38d	8- 5-43	N	550d	8- 7-43	5D	U	-	-	-	D.
25bda-1	First National Bank	1928	323	6	-	Q	G	4,338	-20	12- 3-58	N	-	-	-	U	-	-	-	Destroyed. D, W.
25ccb-1	Lee Davis	1961	316	12	P	Q	G	4,297	-7d	4- 5-61	T	895d	4- 5-61	10D	I	-	-	-	D.
25ccd-1	Chas. Clifford	1928	57	72	W	Q	G	4,330	-34	3-10-71	T	400e	-	-	I	-	-	-	
26aaa-1	Catholic Church	1961	412	10	P	Q	G	4,330	-26	3- 9-71	T	615d	12-19-61	6D	I	-	-	-	D1, W.
26aab-1	Daisy Hansen	1905	45	72	W	Q	G	4,300	-17	3-10-71	C	200r	-	-	I	-	-	-	
26aab-2	I. O. Jensen	1961	330	10	P	Q	G	4,308	-20e	8-28-70	T	350d	8-12-61	18D	I	15.5	400	8-28-70	D.
26aab-3	M. Shio	-	33	72	W	Q	G	4,310	-29	3-10-71	T	300r	-	-	I	14.5	540	8- 4-70	
26adb-1	P. R. Parker	1961	400	12	P	Q	G	4,285	f	8- 4-70	T	1,000d	6- 1-61	10D	I	15.5	420	8- 4-70	D.
26add-1	Norman Nelson	1966	353	12	P	Q	G	4,295	f	8- 4-70	T	250d	11-12-66	2D	I	15.5	400	8- 4-70	D.
34adc-1	G. E. Barnard	1955	60	3	P	Q	G	4,244	+6	3-10-71	F	100	5-20-70	-	I	14.0	740	5-26-70	C, D.
35abc-1	J. C. Stauffer	1959	190	3	P	Q	G	4,272	+14d	8- 8-59	F	90d	8- 8-59	6	U	-	-	-	D.
35acb-1	I. B. Maddox	-	10	30	O	Q	X	4,272	-4	3-10-71	P	-	-	-	S	-	-	-	
35adc-1	George Neilsen	-	-	-	-	Q	G	4,325	-38	3-10-71	T	250e	6- 2-70	-	I	13.5	540	6- 2-70	
35bad-1	Earl Francis	1961	363	6	P	Q	G	4,260	+28	3-10-71	F	23	5-26-70	1	S	16.5	420	5-26-70	D.
35bbb-1	do	1963	212	10	P	Q	G	4,245	-1	5-22-70	T	300r	-	-	I	-	-	-	Flows at times. D.
35dcd-1	H. F. Hansen	-	70	72	-	Q	G	4,354	-46	10- 4-35	N	-	-	-	U	-	-	-	W.
35dcd-2	D. R. Young	1945	104	8	P	Q	G	4,360	-	-	T	-	-	-	I	-	-	-	D.
35ddd-1	Town of Perry	1957	191	12	P	Q	G	4,385	-93	3- 9-71	T	600r	-	50R	P	-	-	-	D.
36bcb-1	I. B. Maddox	1952	312	6	P	Q	G	4,325	-32r	-	T	100d	6-21-52	-	I	-	-	-	D.
(B-9-3)1bbb-1	Federal Land Bank	1919	18	30	C	Q	X	4,233	-2	3- 7-36	N	-	-	-	U	-	-	-	Destroyed. W.
2add-1	-	-	11	36	W	Q	X	4,231	-7	3-29-71	P	-	-	-	H	14.5	2,000	8- 6-71	C.
2bdd-1	-	-	6	36	H	Q	X	4,233	-5	3-29-71	N	-	-	-	U	15.0	4,100	8- 6-71	Drain manhole.
3cdd-1	-	-	8	36	H	Q	X	4,227	-7	3-30-71	N	-	-	-	U	-	-	-	Do.
16ddd-1	-	-	6	18	H	Q	X	4,226	-5	3-30-71	N	-	-	-	U	-	-	-	Do.
27cba-1	Chesapeake Duck Club	1925	502	3	P	Q	S	4,212	f	-	F	40d	-	-	U	74.0	5,300R	8-21-53	Plugged; produced gas. C.
27cba-2	do	-	500	-	-	Q	S	4,212	f	8- 6-71	F	50e	8- 6-71	-	U	42.0	5,500	8- 6-71	Produces gas; sampled from pool.
(B-9-4)35aaa-1	Duckville Gun Club	-	339	2	P	Q	S	4,207	f	-	F	-	-	-	U	-	-	-	Produces gas.
35bab-1	Bear River Bird Refuge	1931	1,028	6	-	Q	S	4,207	f	8-31-70	F	10e	8-31-70	-	U	-	12,600L	8-31-70	Produces gas. D1.
35bab-2	do	1937	341	6	S	Q	S	4,207	f	-	F	-	-	-	U	-	-	-	Produced gas.
35bad-1	do	1937	341	4	-	Q	S	4,207	f	-	F	-	-	-	U	-	-	-	Produced gas. D.
(B-10-2)4aac-1	Utah Power & Light Co.	1961	136	4	P	Q	G	4,430	-118	3-23-71	N	7d	1- 4-61	-	U	11.0D	-	-	D.
4dda-1	Town of Honeyville	1961	366	12	P	Q	G	4,525	-252	3-23-71	T	1,250d	9-22-61	150D	P	-	-	-	D1.
7abd-1	Varsel Chlarson	1910	13	72	W	Q	X	4,265	-10	3-23-71	N	-	-	-	U	7.0	1,000	3-23-71	
15dbd-1	LaRue Yates	1900	33	72	W	Q	G	4,300	-31	3-18-71	N	-	-	-	U	-	-	-	
17bcb-1	J. M. Hardy	1968	609	2	-	Q	S	4,256	-	-	N	-	-	-	U	-	-	-	Destroyed; salty water. D1.
23bbc-1	Von Curtis	1870	14	48	W	Q	G	4,275	-12	3-18-71	C	20r	-	20R	L	12.0	890	11-20-70	
23bca-1	R. E. Limb	1962	72	6	P	Q	G	4,330	-61d	8-20-62	S	22d	8-20-62	22D	H	14.5	680	11-20-70	D1.
26acb-1	Arland DuVall	1900	25	60	W	Q	G	4,285	-10	3-18-71	J	5e	-	-	H	-	540	11- 5-70	
26baa-1	Warren Hyde	1900	17	24	O	O	G	4,270	-11	3-18-71	P	10r	-	-	S	14.5	920	11- 3-70	
26baa-2	do	1900	13	72	W	Q	G	4,255	-8	3- 9-71	N	-	-	-	U	-	-	-	Brackish water reported. W.
36bbc-3	J. D. Wilde	1954	66	10	P	Q	G	4,282	-11	11- 4-70	J	100d	1954	6D	H	-	850	11-4-70	D1.
36bcb-1	L. D. Peirce	1958	52	8	P	Q	G	4,255	+1r	-	N	-	-	-	U	-	-	-	Salty water reported.
36cbc-1	C. W. Astle	1962	46	8	P	Q	G	4,280	-21	3-18-71	N	10e	-	-	U	-	-	-	
(B-10-3)1aca-1	A. W. Thursten	1964	62	6	P	Q	S	4,267	-	-	P	-	-	-	H	-	2,000	9-25-70	D.
1dba-1	John Udy	1969	220	4	P	Q	G	4,269	-8	3-11-71	P	-	-	-	H	-	2,300	9-25-70	C, D1.
4ddd-1	Steven Jepperson	1946	510	2	-	Q	S	4,257	+8d	12-20-47	F	2	9-25-70	-	U	25.5	17,100L	9-25-70	C, D1.
8cdb-1	Gardner and Davis	1900	25	48	W	Q	G	4,262	-6	3-11-71	N	-	-	-	U	10.5	2,000	5-11-71	W.
9aaa-1	H. E. Berchtold	1920	15	36	C	Q	S	4,257	-4	3- 7-36	N	-	-	-	U	-	-	-	W.
11dda-1	-	-	12	18	C	Q	X	4,247	-1	3-26-71	N	-	-	-	U	14.0	1,600	8- 6-71	
12acd-1	Steve Holmgren	-	10	24	C	Q	X	4,257	-6e	3-29-71	C	-	-	-	L	-	-	-	
19dba-1	Bear River City School	-	15	4	P	Q	X	4,257	-6	3-26-71	N	-	-	-	U	-	-	-	W.
13adb-1	J. H. Reese	-	8	6	H	Q	S	4,256	-5	3-29-71	C	-	-	-	L	14.5	2,700	8- 9-71	C.
16aaa-1	-	-	9	48	W	Q	X	4,252	-4	3-30-71	N	-	-	-	U	-	-	-	
25cdd-1	-	-	6	18	H	Q	X	4,236	-5	3-30-71	N	-	-	-	U	-	-	-	Drain manhole.
32aaa-1	B. E. Stallings	-	8	30	W	Q	X	4,243	-4	3-11-71	N	-	-	-	U	18.0	1,400	8- 6-71	W.
33dac-1	Loron Anderson	1936	300	2	P	Q	S	4,232	f	3- 7-36	F	20	3- 7-36	-	U	28.0	-	-	Probably destroyed; brackish water; produced gas.
33ddc-1	-	-	6	18	H	Q	X	4,237	-4	3-30-71	N	-	-	-	U	-	-	-	Drain manhole.
(B-10-4)1cba-1	-	-	33	-	-	-	-	4,283	-30	4- 7-72	J	-	-	-	S	-	4,800	5- 2-72	
3bbc-1	Utah-Penn. Oil Co.	1931	4,100	-	-	Y	L	4,245	-	-	-	-	-	-	U	-	200,000E	2-28-30	Brine; probably destroyed. C.
5bbc-1	Connor Cattle Co.	1943	38	4	S	Q	C	4,264	-8d	12-14-43	P	5d	12-14-43	5D	H	-	900	9-23-70	D.
6cda-1	do	1960	28	6	-	Q	G	4,268	-10e	-	P	-	-	-	H	-	3,600	9-23-70	
6cdd-1	do	1943	104	4	-	Q	G	4,248	+3	3-11-71	F	-	-	-	U	-	4,100	9-23-70	D1, J.
(B-10-5)1aab-1	Thiokol Chemical Corp.	1956	325	8	X	Y	L	4,550	-295d	10-26-56	-	60d	10-26-56	3D	N	-	-	-	375 mg/l chloride reported. D1.

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

Location	Owner or user	Year constructed	Depth of well (feet)	Diameter of casing (inches)	Finish	Aquifer: Age	Aquifer: Material	Altitude above mean sea level (feet)	Water level: Above(+) or below(-) land-surface datum (feet)	Water level: Date of measurement	Method of lift	Yield: Rate (gpm)	Yield: Date of measurement	Specific capacity (gpm per ft of drawdown)	Use of water	Temperature (°C)	Specific conductance of water: Micromhos per cm at 25°C	Specific conductance of water: Date	Remarks and other data available
(B-11-2)2[illegible]	Jess Earl	1968	25	12	O	Q	G	4,332	-4r	-	S	25r	-	2R	L	16.0	790	8-30-71	
6cce-1	H. L. Heaton	1963	178	6	P	Q	S	4,322	-61d	9-24-63	N	18d	9-24-63	.2D	U	13.5D	4,120R	1-16-64	Destroyed. C, D1
8aaa-1	Town of Deweyville	1960	158	12	P	Q	G	4,470	-118d	8-15-60	T	100d	8-15-60	3D	P	9.5D	337L	9- 9-69	C, D.
8dbd-1	Homer Marble	1900	14	15	O	Q	G	4,330	-8r	-	C	10e	-	-	L	-	-	-	
8dbc-1	L. D. Snow	1905	40	96	W	Q	G	4,307	-33	6-17-71	J	10e	-	5E	L	-	-	-	
26aba-1	Town of Elwood	1957	315	12	P	Q	G	4,550	-270d	11-16-57	S	50d	11-16-57	1D	P	-	-	-	D1.
31[illegible]	Utah Highway Dept.	1964	461	8	P	Q	S	4,255	f	6-30-64	F	1d	6-30-64	-	U	-	60,000R	8- 4-64	C, D1.
(B-[illegible])	Calvin Kay	-	12	30	O	Q	X	4,326	-2r	-	C	20r	-	-	H	15.5	2,400	8-12-71	
[illegible]	P. D. Davis	1970	42	4	S	Q	S	4,326	-8d	11-25-70	J	15d	11-19-70	1D	H	13.0	2,300	3-29-71	D1.
[illegible]dd-1	-	-	-	3	-	Q	S	4,327	-5	3-23-71	P	-	-	-	S	8.5	2,000	3-23-71	
[illegible]ba-1	John Laws	1963	250	6	P	Q	G	4,462	-87	3-23-71	N	12d	7- 3-63	-	U	15.0J	1,300J	6-18-71	D, J, W.
5[illegible]b-1	do	1962	78	6	P	Q	G	4,459	-14	3-23-71	N	4d	12-16-62	.4D	U	-	-	-	D, W.
5[illegible]b-2	do	1964	238	6	P	Q	G	4,457	-151	3-23-71	N	10d	8-16-64	-	U	15.5J	600J	6-18-71	D, J, W.
[illegible]dd-1	L. W. Dunn	1965	175	5	P	Q	G	4,318	-30d	8-17-65	N	7d	8-17-65	-	U	-	-	-	Destroyed; salty water. D.
5[illegible]-2	do	1970	160	5	P	Q	R	4,318	-33	3-24-71	S	12d	11- 3-70	.6D	C	13.0	1,600	4-28-71	D.
6acb-1	B. Y. Westmoreland	1936	198	8	X	Y	L	4,457	-177d	9- 3-36	S	10d	9- 3-36	2D	U	16.0D	-	-	D.
6dbd-1	do	1957	92	8	P	Y	L	4,355	-71	3-23-71	N	-	-	-	U	15.5J	1,100J	6-18-71	D, J, W.
7aaa-2	L. W. Dunn	1956	190	6	-	Q	R	4,318	-31	3-24-71	J	-	-	-	H	-	1,600	9-30-70	
7ccd-1	M. L. Summers	1952	221	3	P	Q	S	4,290	+2d	5-25-52	F	1d	5-25-52	.5	H	14.5D	1,100	9-11-70	D.
[illegible]-1	J. A. Summers	1946	230	2	-	Q	R	4,291	+2d	9-16-46	F	.3d	9-26-46	-	H	13.0D	1,100	9-11-70	D.
[illegible]-1	B. G. Martin	1951	269	4	P	Q	S	4,301	-18d	5-14-51	J	4d	5-14-51	.3D	H	13.5D	1,100	9-11-70	D.
8bcc-1	G. G. Eldridge	1944	355	2	P	Q	S	4,307	-16d	5-10-44	-	4d	5-10-44	.4D	U	13.0D	-	-	Probably destroyed. D.
9aad-1	W. F. Storrer	1970	85	-	-	Q	S	4,318	-	-	N	-	-	-	U	-	-	-	Destroyed; salty water. D.
9dbb-1	B. L. Walker	1964	175	5	P	Q	G	4,318	-	-	S	5d	9-10-64	-	C	-	2,000	9-15-70	D.
10abb-3	Rocky Mountain Packing Co.	1941	429	6	P	Q	S	4,318	-20d	5-17-41	N	25d	5-17-41	1D	U	-	-	-	
10abb-4	do	1946	705	6	P	Q	S	4,318	-	-	N	-	-	-	U	-	-	-	D1.
11bbb-1	Joe Carr	1953	238	5	O	Q	S	4,285	-10d	7- -53	N	7d	7- -53	.7D	U	-	-	-	Brackish water; probably destroyed. D.
12dda-1	-	-	28	2	-	Q	X	4,309	-17	3-26-71	P	-	-	-	U	-	-	-	
15bbb-1	C. H. Campbell	-	14	4	P	Q	S	4,301	-2	8-31-71	C	-	-	-	U	-	2,000	8-31-71	
16cbb-1	A. E. Fuller	1941	342	1	O	Q	S	4,283	+3d	4- 5-41	F	.3d	4- 4-41	-	U	13.5D	-	-	Destroyed. D.
16ccd-1	C. W. Green	1945	356	2	P	Q	S	4,279	+4d	3-31-45	F	3d	3-23-45	1	U	11.0D	-	-	Probably destroyed. D.
17bbb-1	O. L. Lind	1951	230	4	O	Q	S	4,292	+0d	5-24-51	F	7d	5-24-51	1D	U	13.0D	-	-	D.
17bcb-1	Alvin Kupfer	1935	348	1	-	Q	S	4,283	+3	10-11-36	F	.5	10-11-36	-	H	14.5	1,000	9-15-70	
17caa-1	G. K. Thomas	1964	225	6	O	Q	S	4,278	f	9-15-64	J	15d	9-15-64	.5	H	-	-	-	D.
17dad-1	H. R. Fuller	1943	332	1	P	Q	S	4,282	+3d	10- 8-43	F	.4d	10- 8-43	-	S	15.0	3,400	9-11-70	D.
17dad-2	do	1947	410	2	-	Q	S	4,282	+4d	3-29-47	F	1d	3-29-47	-	S	14.5D	1,800	9-11-70	D1.
17dba-1	Darrell Fuller	-	335	1	-	Q	S	4,281	+4	3-24-71	F	.3e	9-15-70	-	H	14.0	2,300	9-15-70	C.
17dba-2	do	-	405	1	-	Q	S	4,281	+4	10-11-36	F	.3	10-11-36	-	S	13.5	1,600	9-15-70	
17dbb-1	T. King	1946	335	2	-	Q	S	4,279	+2d	4-17-46	F	.3d	4-17-46	-	H	9.5D	1,300	9-15-70	D.
18aba-1	S. B. Skinner	1959	308	6	S	Q	R	4,291	-6	8- 9-71	J	20d	8-20-59	-	H	-	1,200	8- 9-71	D1.
20daa-1	Keith Barfuss	1944	410	2	O	Q	S	4,273	+3	3-24-71	F	1	9-15-70	.5	U	16.0	5,400	9-15-70	D.
20daa-2	do	-	11	18	C	Q	S	4,273	-6	3-24-71	P	-	-	-	H	-	4,100	9-15-70	Not used for drinking. C.
21bbb-1	M. M. Fukui	1928	600	2	X	Q	G	4,278	+7	12-17-40	F	.9	10-29-35	-	U	15.0	-	-	Salty water; plugged. W.
21bbb-2	do	-	7	15	C	Q	S	4,278	-4	4- 2-46	N	-	-	-	U	-	-	-	Destroyed. W.
21bbb-4	do	-	9	24	C	Q	S	4,278	-4	3-24-71	P	-	-	-	U	-	-	-	
22cbc-1	-	-	10	36	-	Q	S	4,277	-3	3-26-71	J	-	-	-	U	-	-	-	
22daa-1	R. Christensen	-	20	8	C	Q	S	4,282	-6	3-26-71	J	-	-	-	H	-	2,700	3-26-71	
25cbb-1	-	-	10	18	C	Q	S	4,278	-5	3-30-71	N	-	-	-	U	14.5	3,200	8- 6-71	
27baa-1	C. B. Hunsaker	1935	475	1	O	Q	S	4,277	+7	10-11-36	F	1.8	10-11-36	-	S	14.0	3,900	9-15-70	C.
27ccd-1	-	-	5	36	H	Q	X	4,268	-4	3-26-71	N	-	-	-	U	15.0	3,000	8- 6-71	Drain manhole.
33cdd-1	-	-	10	24	-	Q	X	4,264	-3	3-11-71	P	-	-	-	U	13.5	2,000	8- 6-71	W.
36acd-1	S. Moriyama	1963	50	6	P	Q	S	4,277	-11d	4-19-63	-	5d	4-19-63	.1D	H	11.0D	950	9-15-70	D.
36ade-1	A. Andersen	1962	63	6	P	Q	X	4,275	-20r	-	J	-	-	-	H	-	1,700	9-15-70	D.
36bca-1	-	-	9	12	X	Q	X	4,275	-8	3-26-71	N	-	-	-	U	-	-	-	
(B-11-4)2acd-2	D. H. Andersen	1944	185	2	P	Q	G	4,327	-14d	7-18-44	N	5d	7-18-44	.5D	U	13.5D	1,200E	2- 3-54	Abandoned. C, D.
3ccc-1	Town of Bothwell	1962	430	12	P	Q	G	4,419	-113	3-23-71	S	38d	8- 7-62	1D	P	14.5D	2,000	8- 3-70	C, D.
4ddd-1	do	1948	166	8	P	Q	G	4,432	-134	4-16-69	T	30d	9- 2-53	-	I	15.5D	2,200E	12-10-53	C, D.
9dad-1	Thatcher Water Co.	1945	155	8	-	Q	G	4,382	-88	3-11-71	T	-	-	-	P	-	2,000	9-24-70	C, D.
10dcc-1	Oddel Summers	1944	87	2	P	Q	G	4,304	-8d	5-29-44	N	4d	5-29-44	.2D	U	8.5D	-	-	D.
11aaa-1	Leroy Firth	1918	150	6	O	Q	G	4,317	-7	10-11-36	-	-	-	-	H	-	2,300	9-17-70	W.
11bcc-2	H. Peterson	1957	171	6	S	Q	S	4,313	-11e	3-25-71	J	15d	4-12-57	.6D	H	-	2,000	9-24-70	D.
11ddc-1	F. Christensen	1965	202	5	P	Q	R	4,293	f	-	F	-	-	-	S	15.0	4,600	9-17-70	C, D.
12aab-1	John Laws	-	250	-	-	Q	R	4,313	-	-	J	-	-	-	H	-	1,100	9-15-70	
12aba-1	Stanley Stark	1944	240	2	P	Q	G	4,314	-7d	9- 7-44	-	4d	9- 7-44	.3D	U	13.0D	-	-	D1.
12bcb-1	Wayne Evans	1944	157	2	P	Q	G	4,311	-3d	11-12-64	J	5d	6- 2-44	.4D	H	13.5D	1,600	9-30-70	D.
12bcb-2	do	-	13	8	X	Q	S	4,311	-4	3-24-71	C	-	-	-	L	-	4,000	9-30-70	
12ddd-1	R. Andersen	1943	145	2	P	Q	S	4,288	+6d	9-11-43	F	-	-	-	H	13.0	1,500	9-30-70	D.
13aaa-1	P. C. Peterson	1953	275	2	P	Q	S	4,289	+6	3-25-71	F	3d	4- 1-53	.5	H	14.0	1,300	9-17-70	C, D, J.
14aab-1	L. D. Allen	1944	115	2	P	Q	S	4,291	+5	3-25-71	F	1e	9-17-70	.2	S	15.5	1,400	9-17-70	D.
14aba-1	do	-	-	-	-	Q	S	4,292	f	-	F	-	-	-	H	-	1,500	9-17-70	
14baa-1	L. L. Jenkins	-	152	4	-	Q	S	4,294	+2	10-11-36	F	1.8	10-11-36	-	H	15.0	1,500	9-17-70	
15dad-1	-	-	-	4	-	Q	S	4,279	+6	3-25-71	F	.3	3-25-71	-	U	14.0	1,500	3-25-71	
15dcc-1	Verne Roche	-	286	6	-	Q	S	4,279	-2r	-	-	-	-	-	H	-	1,500	8- 3-71	
16add-2	W. R. Anderson	1955	75	8	P	Q	R	4,338	-57d	2-28-55	J	25d	2-28-55	-	H	13.5D	2,300	9-24-70	D1.
21add-1	W. D. Burton	1943	56	48	C	Q	G	4,325	-55	3-11-71	C	3d	2-25-43	-	H	-	620	9-24-70	D.
22bbb-1	Max McNeely	1962	60	6	O	Q	G	4,312	-10d	5-19-62	-	-	-	-	H	-	1,900	8- 3-71	D.
22bcc-1	Geo. Thornley	-	-	-	-	Q	R	4,305	-	-	-	-	-	-	H	-	1,700R	6- 9-66	C.
23bbb-1	J. D. Newman	1944	105	2	P	Q	S	4,274	+4d	5-20-44	F	1d	5-20-44	-	H	10.0D	1,500	9-17-70	D.

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

Location	Owner or user	Year constructed	Depth of well (feet)	Diameter of casing (inches)	Finish	Aquifer: Age	Aquifer: Material	Altitude above mean sea level (feet)	Water level: Above(+) or below(-) land-surface datum (feet)	Water level: Date of measurement	Method of lift	Yield: Rate (gpm)	Yield: Date of measurement	Specific capacity (gpm per ft of drawdown)	Use of water	Temperature (°C)	Specific conductance of water: Micromhos per cm at 25°C	Specific conductance of water: Date	Remarks and other data available
(B-11-4)23bcc-1	D. Woodward	1964	393	2	-	Q	G	4,267	+5	3-25-71	F	2	9-17-70	0.4	S	16.5	1,300	9-17-70	C, D1, W.
23dac-1	do	1965	278	5	P	Q	G	4,257	+12	4-14-71	F	4d	2-23-65	-	S	13.5	1,300	9-18-70	D.
27bcb-1	Harold Reeder	-	-	36	W	Q	G	4,295	-26	3-11-71	C	-	-	-	U	-	-	-	W.
28ccc-1	A. L. Smith	-	15	-	-	Q	S	4,273	-	-	-	-	-	-	H	-	2,100	8- 3-71	
28ccc-2	do	1965	62	6	P	Q	G	4,276	-12	8- 3-71	N	10d	5-16-65	-	S	-	-	-	D.
28dda-1	Beb Okada	1958	41	6	P	Q	G	4,278	-30d	5-18-58	-	15d	5-18-58	-	H	-	2,100	8- 3-71	D1.
29cdd-1	W. T. Hansen	1962	85	6	P	Q	G	4,315	-53	3-11-71	N	10d	5-16-62	-	U	-	-	-	D.
(B-12-2)3bdb-1	G. W. Busenbark	1961	126	4	P	Q	G	4,530	-30d	9-30-61	-	10d	9-30-61	-	H	-	-	-	D.
6bbb-1	Paul Forsberg	1969	21	8	-	Q	S	4,367	-8	3-25-71	J	-	-	-	L	-	-	-	
9cad-1	S. Johnson	1958	95	6	-	T	C	4,557	-41d	10-23-58	-	5d	10-23-58	-	H	-	960	6-17-71	D1.
11bdd-1	R. Johnson	1958	41	6	P	Q	G	4,755	-15	3-31-71	C	4d	7-29-58	-	L	-	-	-	D1.
12cbc-1	D. D. Erickson	1971	65	6	P	Q	G	4,855	-4	10-20-71	-	20d	8-15-71	.8D	H	16.5D	-	-	D.
17cac-1	John Potter	1962	198	4	P	Q	G	4,390	-104	3-25-71	S	10d	3- 7-62	-	H	9.0	440	3-25-71	D1.
17dcb-5	Wm. Warnke	1946	70	4	P	Q	G	4,430	-32r	4- -70	J	4d	7-10-46	.3D	H	13.0D	430	3-25-71	D.
17dcc-1	Clain Jensen	-	36	12	-	Q	G	4,435	-34	3-25-71	J	-	-	-	H	-	-	-	
18bcb-1	R. L. Holman	-	14	8	O	Q	X	4,354	-5	3- 9-71	C	9	-	4E	L	9.0	1,400	6-29-70	Transmissivity 2,100 $ft^3/ft/day$. C, W.
19aab-1	L. W. Larsen	1939	280	2	-	Q	S	4,242	+25	3-29-71	F	4	9-10-70	.2	L	12.5	2,300	9-10-70	C, D1.
20abb-1	M. P. Jensen	1900	25	72	W	Q	G	4,445	-18	3-25-71	N	-	-	-	U	-	-	-	
20dbb-1	J. S. Parkinson	1967	82	6	P	Q	G	4,460	-50	3-31-71	S	15d	7-20-67	8D	S	-	400	3-26-71	D.
29abc-1	do	1966	97	6	P	Q	S	4,430	-18	3-31-71	S	27d	8- 9-66	3D	H	12.0D	360	3-26-71	D.
30ddc-1	Eldon Johnson	-	-	4	-	Q	G	4,370	-	-	J	-	-	-	H	12.0	920	3-31-71	
31aba-1	P. Christensen	-	50	4	-	Q	G	4,356	-13	3-31-71	J	-	-	-	H	12.0	900	3-31-71	
(B-12-3)2aab-1	C. W. Bourne	1968	28	6	P	Q	G	4,369	-6d	4-23-68	-	10d	4-23-68	-	S	-	-	-	D.
3daa-1	Windmill Stock Co.	1906	140	4	S	Q	-	4,435	-125r	-	N	2r	-	-	U	13.5R	-	-	
3daa-2	do	1906	140	6	P	Q	-	4,435	-122r	-	P	2r	-	-	S	13.5R	-	-	
10daa-1	-	-	-	4	-	Q	-	4,407	-107	3- 9-71	P	-	-	-	U	-	-	-	
11daa-1	S. R. Jensen	-	24	-	-	Q	S	4,359	-	-	-	-	-	-	H	-	-	-	
11daa-2	do	1959	68	6	P	Q	G	4,356	-4r	-	J	20d	8-12-59	2D	S	-	1,200	7-28-70	D1.
11dad-1	F. McFarland	-	14	2	-	Q	S	4,358	-9	3-25-71	N	-	-	-	H	-	-	-	W.
11dad-2	do	-	-	-	-	Q	S	4,358	-	-	-	-	-	-	H	-	1,500	3-25-71	
11dbd-1	R. D. McFarland	-	20	1	-	Q	S	4,358	-5	8-14-36	N	-	-	-	U	-	-	-	Destroyed. W.
11dbd-2	do	-	-	1	-	Q	S	4,358	-4	8- 8-39	N	-	-	-	U	-	-	-	Do.
14dcc-1	R. H. Kirby	1964	164	-	-	Q	-	4,355	-40r	-	S	-	-	-	H	-	2,600	7-28-70	
14ddd-1	Max Ward	1945	20	6	P	Q	X	4,320	-3	3- 9-71	P	1d	5- -45	-	S	-	-	-	
15cdc-1	Lorus King	1954	277	12	X	Y	L	4,473	-175	3-25-71	T	800e	7-22-68	80E	I	20.0D	1,600	7-20-71	C, D1, W.
15cdc-2	do	-	71	6	-	Q	G	4,468	-35	3-25-71	P	-	-	-	U	-	-	-	
22ddd-1	-	-	-	4	-	Q	-	4,352	-4	3- 9-71	N	-	-	-	U	-	-	-	
23aab-1	Doris Fuller	1962	30	6	O	Q	P	4,330	-8d	5- 1-62	J	-	-	-	H	-	1,400	7-28-70	D.
24add-1	W. B. Potter	1958	50	6	P	Q	S	4,347	-30d	5-27-58	J	22d	5-27-58	4D	L	13.5D	1,500	8- 9-71	D.
24daa-1	E. Peterson	1941	35	4	X	Q	X	4,346	-19	8-10-71	J	10e	-	-	L	11.0	1,700	8-10-71	C.
26acd-1	Rampton	-	23	1	-	Q	S	4,340	-11	6-26-36	-	-	-	-	H	-	-	-	W.
26adb-1	R. B. Rogers	1952	290	4	S	Q	S	4,342	-41d	4-25-52	N	5d	4-25-52	.5D	U	11.5D	-	-	Destroyed. D1.
26adb-2	do	1959	40	6	P	Q	G	4,342	-15	3-24-71	J	20d	7- 6-68	20D	H	-	1,500	7-29-70	D.
26adc-1	D. R. May	-	61	6	P	Q	R	4,342	-22d	12-13-62	-	25d	12-13-62	5D	H	12.0D	-	-	
26baa-1	-	-	20	2	-	Q	S	4,342	-9	3-25-71	P	-	-	-	S	10.5	1,200	3-25-71	
27aab-1	Merle Hess	1960	33	4	P	Q	S	4,358	-13d	5-14-60	-	54d	5-15-60	-	H	9.0D	1,400	9-10-70	D.
27dde-2	-	-	18	1	S	Q	R	4,343	-5	3-24-71	P	-	-	-	S	11.5	2,000	7-29-70	
29bad-1	E. J. Holmgren	1928	127	6	P	Q	G	5,127	-102r	-	P	2r	-	.1R	S	13.5R	-	-	
31ccd-1	Town of Bothwell	1949	262	6	P	Y	L	4,511	-223r	-	-	-	-	-	P	-	1,400E	2- 3-54	C, D.
32aab-1	City of Tremonton	1961	596	12	P	-	-	4,770	-71d	7-18-61	-	22d	7-19-61	-	U	15.0D	-	-	Probably destroyed. D.
33baa-1	D. D. Jeppesen	1963	71	6	P	Q	G	4,525	-20d	7-10-63	-	10d	7- 5-63	-	H	-	-	-	D.
33bab-1	Jack Pierce	1962	85	10	P	Q	G	-	-	-	-	20d	4- 6-62	-	L	-	480	9-10-70	D.
33bdc-1	do	1959	92	5	P	Q	G	4,463	-55d	11-20-59	J	10d	11-20-59	-	H	-	960	9-10-70	D.
33dad-1	Harvey Deem	1905	19	6	O	Q	X	4,341	-3	3-23-71	C	-	-	-	S	13.0	1,600	9-10-70	W.
34cbc-1	A. Hunsaker	1954	80	6	S	Q	S	4,341	-5d	10-30-54	J	250d	10-30-54	19D	H	-	-	-	D.
(B-12-4)10cbc-1	Manning Bros.	1940	450	6	P	Q	G	4,900	-94e	-	-	.3d	12- 6-40	-	-	-	-	-	Probably destroyed. D.
11cbc-1	J. W. Thornley	-	99	4	-	-	-	4,770	-96	10- 9-36	P	-	-	-	S	-	-	-	
11cbd-1	Adolph Harris	1907	132	4	-	-	-	4,790	-113	11- 1-55	-	-	-	-	U	-	-	-	Destroyed.
15dba-1	D. H. Isaacsen	-	350	6	-	Y	L	4,639	-332	3-23-71	S	-	-	-	S	-	-	-	
21ddd-1	Thayne Oyler	-	-	4	-	-	-	4,563	-	-	P	-	-	-	S	-	1,600	3-22-71	
22aac-1	Ralph Udy	1971	680	16	X	Y	L	4,529	-222	4- 1-71	T	1,450d	4- 1-71	360D	I	16.5	1,100	3-31-71	Also taps Quaternary gravel. C, D1.
22ccd-1	Thayne Oyler	-	-	4	-	-	-	4,518	-211	3-22-71	N	-	-	-	H	-	-	-	W.
22cda-1	Fannie L. Payne	-	-	4	-	-	-	4,504	-198	3-22-71	P	-	-	-	U	-	-	-	W.
23cdd-1	LDS Church Farm	-	-	4	-	Q	G	4,462	-155	3-23-71	P	-	-	-	U	-	-	-	W.
27add-1	K. H. Fridal	1935	163	7	P	Q	S	4,438	-130d	6-16-35	P	2d	6-16-35	.2D	U	15.5D	-	-	D.
27bdb-1	do	1969	500	16	P	Q	G	4,496	-189	3-22-71	T	1,350d	12- -69	27D	I	-	1,400	8- 9-71	Also taps Paleozoic limestone. C, D1.
27dbd-1	Fridal Bros.	1968	478	16	P	Q	G	4,420	-114	5-26-71	T	1,500d	11-11-68	40M	I	14.5D	1,500	8- 3-70	C, D1.
33dbb-1	R. Anderson	1953	460	4	X	Y	V	4,770	-454	3-23-71	P	4d	8-31-53	-	S	16.5D	-	-	
34bbd-1	Leland Harris	1954	306	12	X	Y	V	4,430	-122	3-23-71	T	425d	8- 6-54	6D	I	14.5D	1,500	8- 3-70	C, D1, W.
34cbd-1	Willford Harris	1955	292	12	-	Y	L	4,424	-118	3-23-71	T	1,100d	4-16-55	300D	I	-	1,500	8- 3-70	Also taps Quaternary gravel. C, D1, W.
35bbc-1	Farrell Summers	1968	668	12	P	Q	R	4,376	-70	3-22-71	T	1,000d	3-24-68	94D	I	-	1,500	8- 3-70	C, D1, W.
36dca-1	Ray Holdaway	1941	118	4	P	Y	L	4,390	-103d	5-22-41	-	10d	5-22-41	-	H	18.0D	1,700	9-15-70	D.

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

Location	Owner or user	Year constructed	Depth of well (feet)	Diameter of casing (inches)	Finish	Aquifer: Age	Aquifer: Material	Altitude above mean sea level (feet)	Water level: Above(+) or below(-) land-surface datum (feet)	Water level: Date of measurement	Method of lift	Yield: Rate (gpm)	Yield: Date of measurement	Specific capacity (gpm per ft of drawdown)	Use of water	Temperature (°C)	Specific conductance of water: Micromhos per cm at 25°C	Specific conductance of water: Date	Remarks and other data available
(B-13-2)7ddb-1	-	-	23	48	X	T	W	4,670	-14	3- 9-71	N	-	-	-	S	11.0	690	8- 4-71	
17bbc-1	-	-	-	8	-	-	-	4,575	-13	3- 9-71	C	13	9- 4-70	-	S	10.5	1,000	9- 4-70	C, J. W.
18caa-1	-	-	25	48	W	Q	-	4,463	-7	3-16-71	C	-	-	-	S	-	-	-	
30dad-1	-	-	20	-	-	Q	-	4,410	-14	3-24-71	N	-	-	-	U	-	-	-	
31acc-1	Norman Rudd	1967	10	4	P	Q	S	4,374	-3	3-24-71	C	-	-	-	L	12.0	1,500	8- 4-71	
32ccc-1	Afton Adams	-	19	6	-	Q	S	4,391	-5	3-25-71	C	-	-	-	U	-	-	-	
32ccc-2	DeVere Adams	1970	20	-	-	Q	S	4,392	-	-	C	-	-	-	L	10.5	1,600	8- 4-71	
33add-1	Don Stubbs	1951	85	4	-	T	V	4,275	+15d	5-31-51	J	4d	5-31-51	0.3	S	18.0D	1,000	7-21-70	D.
(B-13-3)4cdd-1	Steed Estep	1900	100	6	-	Q	-	4,399	-41	3- 9-71	N	-	-	-	U	-	-	-	W.
9aca-1	Leonard Welling	1900	100	6	-	Q	-	4,410	-50	7-13-70	N	-	-	-	U	-	-	-	
9adb-1	do	1900	100	6	-	Q	-	4,403	-42	3- 9-71	N	-	-	-	U	-	-	-	
10dcd-1	Federal Aviation Administration	1941	202	6	P	Q	G	4,418	-37d	4-30-41	N	50d	4-30-41	-	U	-	-	-	Destroyed. D1.
10ddd-1	S. R. Jensen	-	66	6	-	Q	-	4,419	-44r	-	-	-	-	-	U	14.0	800	5-31-72	
11dac-1	Town of Plymouth	1970	600	6	-	T	V	4,490	-27	9-30-70	S	52r	9- 9-70	2D	U	29.0R	-	-	Abandoned; warm water. J.
11dad-1	Rulon Rudd	-	23	8	-	Q	-	4,493	-2	3- 9-71	C	-	-	-	L	-	880	7-20-71	W.
12adb-1	Town of Plymouth	1967	130	12	P	Q	G	4,750	-36	3- 9-71	S	40d	6- 6-67	-	U	-	660	7-22-68	D.
12cba-1	Dean Estep	1909	100	6	-	Q	G	4,550	-4	3- 9-71	C	-	-	-	L	-	-	-	D1.
21acd-1	Joe Butler	1910	130	4	P	Q	G	4,579	-78	3-16-71	P	-	-	-	S	-	-	-	
22ddc-1	N. A. Pierce	1911	130	6	-	Q	-	4,465	-80r	-	N	1r	-	-	U	-	-	-	
26ccc-1	M. A. Udy	1962	131	6	P	Q	G	4,403	-60d	7- 4-62	J	-	-	-	H	-	1,800	7-22-70	D1.
26cdd-1	Rosel Zundel	1953	85	4	P	Q	R	4,379	-44d	5-28-53	J	5d	5-28-53	1D	H	13.5D	-	-	D.
26ddc-1	L. M. Burton	1952	160	4	P	Q	R	4,378	-16d	5- 2-52	N	6d	5- 2-52	1D	U	13.0D	-	-	Abandoned; poor quality. D.
26ddc-2	do	-	45	-	-	Q	S	4,378	-	-	C	-	-	-	S	14.5	2,100	7-22-70	
27ddd-1	J. D. Wood	1910	112	4	-	Q	G	4,410	-60r	-	P	11r	-	-	U	-	-	-	
28ada-1	H. C. Butler	1916	245	4	X	Y	L	4,580	-233	3-16-71	N	11r	1934	-	U	14.5D	-	-	J, W.
28bad-1	Joe Butler	1963	250	6	P	Q	G	4,730	-75d	8-13-63	P	-	-	-	S	-	-	-	D.
35bbb-1	G. G. Petty	1940	90	4	-	Q	G	4,402	-64	3- 9-71	J	3d	11-10-40	1D	H	13.5D	1,300	7-22-70	C, D.
35ccd-1	G. M. Seversen	1944	52	4	P	Q	R	4,380	-37d	10-20-44	N	4d	10-20-44	2D	U	14.5D	-	-	Destroyed. D.
35ccd-2	do	1962	136	6	P	Q	G	4,379	-54d	6-30-62	J	-	-	-	H	12.0D	1,000	7-22-70	D.
35cdc-1	Potter Bros.	1950	91	4	P	Q	G	4,375	-32d	10- 9-50	-	10d	10-13-50	.7D	H	14.0D	-	-	D.
35dda-1	LDS Belmont Ward	1963	237	10	P	Q	G	4,371	-41	3- 9-71	T	470d	2-25-63	5D	U	15.5D	2,390R	8-25-64	C, D1, W.
35dda-2	do	1967	29	8	-	Q	S	4,371	-19r	-	C	23r	-	-	H	11.5	1,600	7-22-70	
(B-13-4)7ddd-1	Promontory Oil No. 1	1950	7,321	-	-	Y	-	5,170	-	-	-	-	-	-	U	-	-	-	Destroyed. D.
20aba-1	N. C. Hunsaker	1963	105	8	P	Q	R	5,093	-31d	3-25-63	T	57d	3-25-63	19D	H	9.0D	-	-	D1.
20bba-1	Byron Hunsaker	-	38	72	W	Q	-	5,115	-11	8-24-71	J	-	-	-	S	-	980	8-24-71	C.
32ccc-1	D. Peterson	1958	867	8	X	Y	L	5,100	-745d	10- 8-58	-	1d	10- 8-58	-	U	-	-	-	D1.
(B-14-3)4abd-1	I. H. John	1952	64	5	-	Q	R	4,425	-40d	9- 2-52	T	6d	9- 2-52	-	S	-	-	-	D.
4cca-1	Katherine Hall	-	138	4	O	Q	R	4,362	+13	3-16-71	F	10d	7-14-41	-	U	10.5	460	5-12-71	J.
4cda-1	Farrel McCrary	1969	105	5	P	Q	R	4,371	+4	3-16-71	F	.5	5-22-70	-	S	11.0	430	5-12-71	D1.
4cdc-1	David Parkinson	-	97	4	O	Q	R	4,362	+2d	7-11-41	F	5d	7-11-41	-	S	-	-	-	
4dac-1	Glen Ward	1939	50	4	P	Q	G	4,435	-39	5-26-70	P	100d	3-12-39	-	S	15.5D	-	-	D.
5cdc-1	Union Pacific Railroad Co.	-	-	4	-	Q	R	4,369	+8	3-16-71	F	8	5-26-70	2	U	11.0	660	5-12-71	C.
6bdd-1	R. J. Howell	1960	85	5	-	Q	G	4,430	-52	5-26-70	N	5d	7-16-60	8R	U	-	-	-	D, J.
6cca-1	C. P. Neal	1960	135	6	P	Q	G	4,490	-113	3- 8-71	S	10d	4- 6-60	-	L	11.0	1,200	5-26-70	D1.
7abb-1	Ora John	-	67	4	-	Q	R	4,430	-53	3- 8-71	N	-	-	-	U	-	-	-	W.
9aac-1	-	-	-	2	-	Q	R	4,375	+3	3- 8-71	F	.3	3- 8-71	-	S	3.0	480	3- 8-71	
10bbb-1	-	-	43	5	-	Q	G	4,407	-12	3- 8-71	J	-	-	-	S	14.0	450	5-12-71	C, W.
10ccc-1	-	-	-	2	-	Q	R	4,373	+2	3- 8-71	F	-	-	-	S	-	-	-	
15bbc-1	-	-	85	3	-	Q	R	4,375	+1e	3- 8-71	F	-	-	-	S	-	460	8- 4-71	J.
15bda-1	Allen	-	65	6	-	Q	G	4,433	-27	3- 8-71	J	5e	5-26-70	-	S	14.0	410	5-26-70	
17cdc-1	LDS Washakie Farm	1941	323	5	P	Q	R	4,385	-11	3- 8-71	N	50d	6-20-41	2D	U	-	-	-	D1, W.
17dca-1	do	1946	174	4	P	Q	G	4,370	+3d	12-12-46	S	20d	12-12-46	7	P	13.5	1,700	7-10-70	C, D.
20adb-2	H. E. Hall	1939	80	4	P	Q	G	4,365	+8	3-16-71	F	6d	9-10-49	-	S	13.0	780	7-10-70	D.
22ddb-1	Wayne Mason	-	-	4	-	Q	G	4,463	-45	3- 6-36	P	-	-	-	S	-	-	-	
27dcb-1	H. Starr	-	15	-	-	Q	G	4,400	-5e	-	-	-	-	-	H	-	600	8- 4-71	
32bdb-1	Lamb	-	125	4	-	Q	R	4,480	-109	3-16-71	P	-	-	-	U	-	-	-	
35ccb-1	Riverside-North Garland	1970	268	12	P	Q	G	4,590	-183	3- 9-71	-	325r	-	-	P	-	-	-	
(B-14-4)1dad-1	Town of Portage	-	212	-	-	Q	G	4,515	-137e	8- 4-64	T	43	8- 4-64	-	P	11.0	800	8- 3-70	C.
31bbd-1	LDS Church Farm	-	91	5	-	-	-	5,634	-11	7-10-70	N	-	-	-	U	-	-	-	
31bbd-2	do	-	20	36	W	Q	R	5,640	-7	7-10-70	-	6r	5- -70	.3R	S	-	-	-	
33aaa-1	D. H. Adams	1940	155	-	X	Y	V	5,250	Dry	6- 1-40	N	0d	-	-	U	-	-	-	Destroyed. D.
34baa-1	Lloyd Keller	1951	230	5	-	-	-	5,200	Dry	2-11-51	N	0d	-	-	U	-	-	-	Do.
(B-15-3)31ccc-1	N. J. John	1961	160	12	P	-	-	4,440	-40d	10- 8-61	T	800d	10- 8-61	200D	I	-	-	-	D1.
31cdd-1	do	-	105	4	-	Q	R	4,405	-30	3- 8-71	P	-	-	-	U	-	-	-	

Table 2.--Records of selected springs

Altitude above mean sea level: Altitude of land-surface datum interpolated from topographic maps.
Aquifer: Qca, colluvium and alluvium; Qbi, interior deposits of Lake Bonneville basin; Qbm, marginal deposits of Lake Bonneville basin; Tsl, Salt Lake Formation (queried where assignment of unit to Salt Lake Formation is questionable); PPo, Oquirrh Formation; PCr, Pennsylvanian-Cambrian rocks; CpCr, Cambrian and Precambrian rocks.
Magnitude: Classification with respect to discharge (after Meinzer, 1923, p. 53). 2, 4,500-45,000 gpm; 3, 450-4,500 gpm; 4, 100-450 gpm; 5, 10-100 gpm; 6, 1-10 gpm; 7, less than 1 gpm.
Discharge: E, estimated; M, measured; R, reported.
Specific conductance: Measured in field except where indicated; E, estimated from dissolved-solids content; L, laboratory determination; R, reported.
Use of water: H, household (domestic); I, irrigation; P, public supply; R, recreation; S, stock; U, unused.
Remarks and other data available: C, chemical analysis in table 5.

Location	Name or owner	Altitude above mean sea level (feet)	Aquifer	Magnitude	Yield		Temperature (°C)	Specific conductance of water		Use of water	Remarks and other data available
					Discharge (gpm)	Date of measurement		Micromhos per cm at 25°C	Date		
(B-8-2)1aac-S1	Perry Basin Spring	5,350	CpCr	5	-	-	-	330E	1- -41	U	Formerly used as public-water supply. C.
10acd-S1	Stauffer Spring	4,250	Qbm	4	360E	4-26-72	14.0	600	4-27-72	I	
(B-9-1)14cdb-S1	-	5,280	Qca	4	250E	9-24-70	-	-	-	I	
14cdc-S1	Jensen Spring	5,180	Qca	3	530R	1924	12.0	450	9-24-70	P	C.
15adc-S1	Big Dam Spring	5,183	PCr	3	1,570M	9-28-70	13.0	440	9-28-70	I	
15cdc-S1	West Halling Spring	5,180	PCr	3	3,600R	1958	-	425R	6-17-65	P	C.
23baa-S1	East Halling Spring	5,160	Qca	3	640R	1959	-	450R	4-22-69	P	C.
23bcb-S1	Knoll Spring	5,145	PCr	3	1,000R	1958	-	450R	4-22-69	P	C.
23cda-S1	Rock Spring	5,150	Qca	3	1,000R	1959	-	450R	4-22-69	P	C.
26ccc-S1	Maple Spring	5,205	PCr	3	4,300M	9-28-70	9.5	350	9-28-70	I	
28adb-S1	U.S. Forest Service	5,210	CpCr	5	72R	-	9.0	130	11-24-71	P	
33aac-S1	Town of Mantua	5,760	CpCr	6	10R	-	-	-	-	P	
33acd-S1	do	6,000	CpCr	5	35M	10- -71	-	95	11- 2-71	P	
(B-9-2)12baa-S1	H. S. Larsen	4,256	Qbm	5	100E	10-16-70	-	580	10-16-70	I	
12daa-S1	Rees Spring	4,300	Qbm	3	1,350M	10-21-70	15.0	410	10-21-70	I	C.
35cab-S1	P. Valencia	4,273	Qbm	4	400E	5- 3-72	15.0	480	5- 3-72	I	
35cdb-S1	Porter Spring	4,276	Qbm	3	900E	5- 3-72	16.0	660	5- 3-72	I	
35dbb-S1	Walker Spring	4,276	Qbm	3	900E	5- 3-72	-	590	5- 3-72	I	
(B-10-2)3bbb-S1	Tolman Springs	4,480	Qbm	4	200E	9- 9-71	13.0	450	9- 9-71	I	
3cab-S1	Town of Honeyville	4,780	Qbm	-	(1/)	-	-	-	-	P	
3cac-S1	do	4,810	Qbm	-	(1/)	-	-	-	-	P	
3cac-S2	do	4,740	Qbm	-	(1/)	-	-	-	-	P	
3cca-S1	do	4,640	Qbm	-	(1/)	-	-	-	-	P	
3cdb-S1	do	4,760	PCr	-	(1/)	-	-	-	-	P	
3cdb-S2	do	4,700	PCr	-	(1/)	-	-	-	-	P	
3dbc-S1	Cottonwood Spring	4,980	PCr	-	(1/)	-	-	-	-	P	
3dca-S1	Honeyville Spring	5,160	PCr	-	(1/)	-	-	-	-	P	
3dcb-S1	do	5,120	PCr	-	(1/)	-	-	-	-	P	
4cac-S1	Cold Spring	4,258	Qbm	3	1,350E	11-24-70	13.0	2,400	11-24-70	I	C.
5abd-S1	-	4,265	Qbi	5	60M	7-15-71	14.0	1,500	7-15-71	U	
16aba-S1	Vern Rasmusen	4,245	Qbi	4	300E	12- 6-70	10.0	2,000	12- 6-70	I	Drain in seep area.
17aaa-S1	-	4,243	Qbi	4	300E	7-15-71	-	4,000	7-15-71	U	Do.
17aad-S1	-	4,243	Qbi	4	200E	7-15-71	-	2,500	7-15-71	U	Do.
22aaa-S1	Joseph Yates	4,255	Qbm	3	1,400M	3-22-72	13.5	1,700	11-17-70	I	C.
23ab-S1	Grace Jeppesen	-	PCr	5	40R	-	-	470	11-17-70	P	Domestic supply for six families.
23ad-S1	W. J. Baty	-	PCr	5	100R	-	-	490	11-17-70	P	Supply for two families and church.
23cdc-S1	Max Baty	4,250	Qbm	5	20E	11-16-70	12.0	650	11-16-70	I	
23dcc-S1	do	4,290	Qbm	6	5E	11-16-70	12.0	440	11-16-70	H	
25acb-S1	Baker Spring	5,470	PCr	3	1,350R	-	10.0	438L	5-17-67	P	C.
25bba-S1	Yates Canyon Spring	5,000	PCr	5	100R	-	-	420E	2- -41	P	C.
26abc-S1	J. L. Yates	4,245	Qbm	3	450E	11- 3-70	14.5	1,100	11- 3-70	I	
26dba-S1	Arland DuVall	4,250	Qbm	4	150E	11- 5-70	14.0	780	11- 5-70	U	
35aaa-S1	J. D. Wilde	4,250	Qbm	5	100E	11- 4-70	15.0	670	11- 4-70	I	
36bcb-S1	L. D. Peirce	4,250	Qbm	5	15E	11- 3-70	14.5	700	11- 3-70	H	
36cbc-S1	D. Christensen	4,250	Qbm	5	50E	10-27-70	-	1,500	10-27-70	H	
(B-10-3)23ccc-S1	-	4,235	Qbi	5	100E	3-29-71	11.5	36,900L	3-29-71	U	Yellow water.
30bbd-S1	Stinking Hot Spring	4,250	PCr	5	45E	-	48.0	53,900L	4- 5-58	R	C.
(B-10-4)2cad-S1	-	4,248	Qbi	6	-	-	-	15,100L	5-14-71	U	
6cda-S1	Connor Spring	4,255	PPo	4	450R	-	15.0	4,300	9-23-70	S	C.
11bab-S1	-	4,251	PCr	6	2E	-	18.5	10,300L	9-18-70	U	
23dad-S1	-	4,248	PCr	5	15E	9-13-71	24.5	46,800L	9-13-71	U	
23dda-S1	-	4,248	PCr	6	2E	9-13-71	26.0	17,400L	9-13-71	U	
24ccc-S1	Little Mountain Hot Spring	4,250	PCr	4	450E	5-11-71	42.0	51,000L	12-28-71	U	C.
(B-10-5)11daa-S1	-	4,252	PPo	4	180E	4-21-71	18.0	8,930L	4-21-71	U	
12bda-S1	-	4,254	Qbi	6	-	-	-	1,800	8- 3-71	U	
12bdb-S1	-	4,254	Qbi	5	-	-	-	1,900	8- 3-71	U	
12bdc-S1	-	4,249	Qbi	5	-	-	-	7,000	8- 3-71	U	
(B-11-2)4bbc-S1	Limekiln Spring	4,780	Qbm	5	45R	-	-	510E	2- -41	P	C.
4cbd-S1	Garland Spring	4,810	Qbm	5	100R	-	-	-	-	P	
5abd-S1	Town of North Deweyville	4,570	Qbm	5	20E	8-31-71	13.0	500	8-31-71	P	C.
6ccc-S1	H. L. Heaton	4,270	Qbi	5	-	-	-	1,400	8- 3-71	H	
8dbd-S1	Dewey Spring	4,317	Qbm	3	900R	-	-	480	6-21-71	I	
27daa-S1	Coldwater Spring	5,720	PCr	3	450R	-	-	270E	2-23-51	P	C.
29dac-S1	Crystal Cold Spring	4,272	Qbm	3	1,600E	12- 8-70	16.5	2,900	12- 8-70	R	C.
29dad-S1	Crystal Hot Spring	4,268	PCr	3	1,600E	12- 8-70	53.5	61,800	12- 8-70	R	C.
32aab-S1	-	4,273	Qbi	6	5E	7-15-71	-	2,800	7-15-71	U	
(B-11-3)6dcc-S1	Salt Creek Springs	4,270	PPo	2	10,000M	4-16-71	19.5	3,700	6-25-71	R	C.

Table 2.--Records of selected springs - Continued

Location	Name or owner	Altitude above mean sea level (feet)	Aquifer	Magnitude	Yield		Temperature (°C)	Specific conductance of water		Use of water	Remarks and other data available
					Discharge (gpm)	Date of measurement		Micromhos per cm at 25°C	Date		
(B-11-4)34bdb-S1	-	4,254	PPo	6	10E	8-31-71	18.0	4,100	8-31-71	S	
34caa-S1	-	4,253	PPo	4	-	-	-	4,900	8-31-71	U	
34caa-S2	-	4,253	PPo	3	-	-	-	5,900	8-31-71	U	
34cdd-S1	-	4,250	PPo	6	2E	8-31-71	18.5	14,700L	8-31-71	U	
34dba-S1	-	4,252	PPo	3	-	-	-	7,000	8-31-71	U	
34dbd-S1	-	4,253	PPo	3	-	-	21.0	5,500	8-31-71	U	
34dca-S1	-	4,254	PPo	6	10E	8-31-71	22.0	7,400	8-31-71	U	
34dcc-S1	-	4,255	PPo	4	200E	5-14-71	18.5	8,840L	5-14-71	U	C.
34dcc-S2	-	4,250	PPo	3	700E	8-31-71	-	17,100L	8-31-71	U	
(B-12-2)5cca-S1	-	4,275	Qbi	4	450E	8-27-71	14.0	1,300	8-27-71	S	
5cdc-S1	-	4,252	Qbi	4	-	-	-	-	-	S	
6bac-S1	-	4,354	Qbi	3	700E	8- 4-71	12.0	1,300	8- 4-71	S	
7aaa-S1	-	4,350	Qbi	5	100E	8-27-71	13.5	1,100	8-27-71	S	
7aab-S1	-	4,350	Qbi	5	50E	8-27-71	15.0	930	8-27-71	S	
7dbb-S1	-	4,270	Qbi	4	-	-	15.5	1,400	8-27-71	S	
8bbb-S1	-	4,260	Qbi	6	5E	8-27-71	14.5	1,000	8-27-71	U	
11dcb-S1	Town of Beaver Dam	4,800	Qbm	4	-	-	-	750	8-27-71	P	C.
14bac-S1	do	4,930	Qbm	5	-	-	-	780	8-27-71	P	
14ddb-S1	do	4,990	Qbm	5	-	-	11.5	680	8-27-71	P	
20abc-S1	Lee Allen	4,418	Qbm	4	140M	3-19-70	-	400	3-19-70	I	
20adc-S1	Wildcat Spring	4,680	Qbm	6	-	-	-	500	3-19-70	H	
20bdc-S1	Pack and Barnard Spring	4,390	Qbm	4	200M	3-19-70	-	410	3-19-70	I	
22baa-S1	Hansen Spring	4,940	Qbm	-	-	-	-	-	-	P	
22dcd-S1	Ukon Water Co.	5,140	Qbm	-	(2/)	-	-	(2/)	-	P	
27acd-S1	do	5,300	-	-	(2/)	-	-	(2/)	-	P	
30cdd-S1	Beaton Spring	4,303	Qbm	4	450E	4- 1-71	12.0	970	4- 1-71	I	
31dda-S1	Tremonton North Spring	4,240	Qbm	-	-	-	-	730E	3- 1-54	P	C.
31dda-S2	Tremonton Middle Spring	4,240	Qbm	3	550E	8-10-71	14.0	820	8-10-71	P	C.
31dda-S3	Garland Springs	4,240	Qbm	-	-	-	-	-	-	P	
31ddd-S1	Tremonton South Spring	4,240	Qbm	-	-	-	-	-	-	P	
34bad-S1	Ukon Water Co.	6,000	-	-	(2/)	-	-	(2/)	-	P	
(B-12-3)28ddc-S1	Garland West Side Spring	4,380	Qbm	5	80R	-	13.0	770	11-24-71	P	
32acd-S1	Tremonton West Spring	4,620	Qbm	5	45R	-	-	-	-	P	
32bcc-S1	Town of Bothwell	4,775	Qbm	5	12R	-	-	620	8-18-71	P	C.
(B-12-4)10dab-S1	Blind Springs	4,750	Qbm	5	-	-	-	-	-	U	
(B-13-2)6abb-S1	Town of Plymouth	5,700	PCr	5	40E	9-13-71	8.5	500	9-13-71	P	
6abb-S2	do	5,600	Tsl	5	-	-	-	-	-	P	
6cdd-S1	do	4,970	Qbm	-	-	-	-	-	-	P	
7bad-S1	do	4,860	Qbm	-	-	-	-	-	-	P	
7bac-S1	do	4,800	Qbm	-	-	-	-	-	-	P	
18aaa-S1	-	4,618	Qbm	6	8E	5-21-70	11.5	820	5-21-70	S	
22dda-S1	Utah Power and Light Co.	4,960	-	6	10R	-	-	1,170R	8- 2-60	P	C.
27dac-S1	do	4,280	-	5	15E	1- 5-68	13.0	830L	1- 5-68	P	C.
27dbd-S1	-	4,280	PCr	6	10E	2- 2-68	23.0	3,670L	2- 2-68	U	C.
(B-13-3)4ddd-S1	-	4,345	Qbm	6	5E	8-13-71	13.5	1,500	8-13-71	U	
9aac-S1	Leonard Welling	4,355	Qbm	4	200E	8-13-71	11.5	1,800	7-13-70	S	
12acc-S1	-	4,620	Qbm	6	-	-	-	750	7-14-70	S	
23abc-S1	River Pools	4,312	-	2	5,000R	-	46.0	9,640L	9- 8-71	U	
23acb-S1	Indian Pool	4,318	-	4	450R	-	43.0	15,000L	9- 8-71	R	
23acb-S2	Morning Glory Pool	4,317	-	4	200R	-	51.0	15,000L	9- 8-71	U	C.
23bad-S1	Udy Hot Springs	4,325	-	3	900R	-	43.0	13,100L	9- 8-71	R	C.
28ddc-S1	-	4,580	Qbm	7	-	-	6.0	840	3-19-70	S	
34cac-S1	Roche	4,495	Qbm	5	40M	3-19-70	11.5	650	3-19-70	H	
36aad-S1	-	4,355	Qbi	5	100E	8- 4-71	11.5	1,100	8- 4-71	S	
(B-14-2)31caa-S1	Town of Plymouth	6,080	-	-	-	-	-	-	-	P	
31cdc-S1	do	5,660	-	-	-	-	-	-	-	P	
31dcb-S1	do	5,970	-	-	-	-	-	-	-	P	
(B-14-3)4abc-S1	-	4,377	Qbm	6	10E	9- 8-71	14.0	500	9- 8-71	U	
4abc-S2	-	4,377	Qbm	6	10E	9- 8-71	13.5	580	9- 8-71	S	
4abc-S3	-	4,377	Qbm	5	20E	9- 8-71	14.0	520	9- 8-71	U	
10cac-S1	-	4,390	Qbm	5	30E	9- 8-71	-	730	9- 8-71	S	
10cdb-S1	-	4,390	Qbm	5	15E	9- 8-71	-	650	9- 8-71	S	
15cdc-S1	-	4,395	Qbm	6	-	-	-	420	5- 2-70	U	
27dcb-S1	Mound Spring	4,395	Qbm	5	30E	8- 4-71	13.0	600	8- 4-71	I	C.
(B-14-4)3bbb-S1	-	5,110	PCr	5	30E	5-12-71	10.0	650	5-12-71	S	C.
4aca-S1	-	5,200	PCr	5	100E	5-12-71	10.0	610	5-12-71	I	
4aca-S2	-	5,195	PCr	5	15E	5-12-71	-	-	-	S	
9dcc-S1	-	5,220	PPo	4	450E	5-13-71	11.5	600	5-13-71	I	C.
10cbd-S1	Town of Portage	5,065	PPo	5	-	-	-	620E	6- -41	P	C.
(B-15-3)33dbb-S1	Oregon Springs	4,418	Qbm	6	-	-	-	400	7-14-70	S	
(B-15-4)31dbb-S1	-	5,620	Tsl?	5	50E	5-12-71	12.0	630	5-12-71	S	C.

1/ Reported combined discharge of nine springs is 900 gpm.
2/ Reported combined discharge of three spring areas is 900 gpm; conductance on March 29, 1960 was reported to be 659 micromhos per cm at 25°C.

Table 3.--Water levels in selected observation wells

Water levels are given in feet above (+) or below land-surface datum.
Measurements by U.S. Geological Survey unless otherwise indicated. Asterisk (*) indicates measurement by U.S. Bureau of Reclamation.

(B-8-2)2bcb-1.	Records available 1970-72.					
May 22, 1970	31.07	Apr. 1, 1971	31.61	Dec. 1, 1971	29.36	
Sept. 2	29.90	May 14	29.09	Jan. 4, 1972	30.26	
Oct. 1	29.50	June 2	27.57	Feb. 8	30.60	
Nov. 2	30.20	July 1	28.52	Mar. 7	30.92	
Dec. 3	31.00	Aug. 2	29.03	Apr. 5	30.06	
Jan. 19, 1971	31.44	Sept. 2	28.41	May 1	29.20	
Feb. 12	31.40	Oct. 7	27.50	June 1	27.95	
Mar. 9	31.46	Nov. 2	29.96			
(B-8-2)11bdc-1.	Records available 1935-46.					
Oct. 5, 1935	59.87	June 25, 1938	45.78	Oct. 7, 1941	42.72	
Dec. 7	57.65	Aug. 18	47.90	Dec. 11	47.12	
Mar. 4, 1936	56.09	Oct. 17	46.04	Mar. 3, 1942	50.16	
May 9	53.11	Dec. 8	48.63	Aug. 20	40.97	
June 27	51.58	Feb. 6, 1939	50.94	Dec. 30	47.32	
Aug. 16	55.33	Mar. 25	51.84	Mar. 6, 1943	50.08	
Oct. 8	56.50	Apr. 6	51.75	Dec. 4	46.85	
Dec. 14	54.25	May 31	49.39	Apr. 13, 1944	51.85	
Jan. 6, 1937	53.97	Aug. 5	49.21	Dec. 20	47.42	
19	53.85	Oct. 3	48.10	Mar. 3, 1945	50.74	
Mar. 14	53.92	Dec. 28	51.32	June 1	46.27	
May 12	51.04	Feb. 1, 1940	52.42	July 19	43.27	
Sept. 24	47.45	Apr. 4	53.07	Dec. 7	45.73	
Nov. 2	48.20	June 25	50.55	Feb. 25, 1946	49.64	
Dec. 15	49.70	Oct. 10	45.09	Mar. 20	50.28	
Feb. 10, 1938	50.93	Dec. 19	49.82	Apr. 25	49.05	
Apr. 18	51.17	Mar. 12, 1941	52.37	May 20	45.62	
(B-8-2)11cad-1.	Records available 1946-61, 1970-72.					
Feb. 25, 1946	30.13	Oct. 26, 1953	*25.40	Apr. 6, 1960	35.80	
Mar. 20	30.57	Mar. 2, 1954	*31.90	June 8	33.25	
Apr. 25	30.45	Apr. 6	*32.10	July 6	32.92	
May 20	28.55	July 12	*31.50	Sept. 2	31.40	
Dec. 10	27.53	Oct. 4	*32.30	Dec. 1	31.27	
Apr. 2, 1947	30.60	Jan. 3, 1955	*32.50	Mar. 8, 1961	34.35	
May 19	29.55	Mar. 1	*34.20	July 13	37.43	
Dec. 31	29.69	June 2	*31.63	Sept. 8, 1970	30.50	
Apr. 2, 1948	31.98	Sept. 6	*28.50	Oct. 1	29.84	
Dec. 31	29.23	Dec. 5	*29.95	Nov. 2	30.50	
Mar. 28, 1949	31.08	Mar. 5, 1956	*32.50	Dec. 3	31.79	
Dec. 12	28.74	June 4	*31.03	Jan. 19, 1971	32.25	
May 1, 1950	31.02	Sept. 6	*32.97	Feb. 12	30.20	
Mar. 29, 1951	31.70	Dec. 6	*34.36	Mar. 9	32.65	
Oct. 26	25.78	18	31.24	Apr. 1	32.88	
Jan. 11, 1952	30.49	Mar. 5, 1957	*33.60	May 14	31.13	
Apr. 15	32.20	Dec. 30	30.64	June 2	30.33	
Oct. 20	*25.68	Mar. 5, 1958	32.38	July 1	29.72	
24	25.99	Dec. 8	29.30	Aug. 2	28.99	
Nov. 17	*27.57	Mar. 3, 1959	32.67	Sept. 2	27.63	
Dec. 15	*29.14	June 3	33.40	Oct. 7	27.70	
Jan. 21, 1953	*30.62	July 7	34.02	Nov. 2	28.85	
Feb. 24	*31.44	Aug. 4	34.95	Dec. 1	29.89	
Mar. 24	*32.23	Sept. 10	35.12	Jan. 4, 1972	30.52	
Apr. 22, 1953	*32.54	Oct. 5	33.37	Feb. 8	31.30	
May 25	*31.34	Nov. 3	32.94	Mar. 7	31.75	
June 24	*28.98	Dec. 2	33.59	Apr. 5	31.48	
July 27	*28.41	Jan. 11, 1960	34.59	May 1	32.50	
Aug. 25	*27.44	Feb. 2	35.05	June 1	29.40	
Sept. 28	*25.52	Mar. 2	35.46			
(B-8-2)14bda-1.	Records available 1970-72.					
July 21, 1970	23.37	Apr. 1, 1971	26.55	Dec. 1, 1971	24.45	
Sept. 2	25.70	May 14	23.53	Jan. 4, 1972	24.50	
Oct. 1	25.48	June 2	22.10	Feb. 8	24.79	
Nov. 2	26.55	July 1	18.85	Mar. 7	25.21	
Dec. 3	26.60	Aug. 2	21.77	Apr. 5	24.18	
Jan. 19, 1971	26.88	Sept. 2	22.37	May 1	23.45	
Feb. 12	26.34	Oct. 7	23.28	June 1	20.07	
Mar. 9	26.27	Nov. 2	23.98			
(B-8-2)14cdd-2.	Records available 1970-72.					
July 21, 1970	12.65	Apr. 1, 1971	16.28	Dec. 1, 1971	14.34	
Sept. 2	16.43	May 14	13.15	Jan. 4, 1972	14.34	
Oct. 1	16.09	June 2	11.69	Feb. 8	14.72	
Nov. 2	16.78	July 1	7.78	Mar. 7	15.12	
Dec. 3	19.38	Aug. 2	15.80	Apr. 5	14.05	
Jan. 19, 1971	16.87	Sept. 2	12.50	May 1	12.75	
Feb. 12	16.75	Oct. 7	13.80	June 1	9.79	
Mar. 9	16.15	Nov. 2	14.08			
(B-9-2)3bbc-1.	Records available 1971-72.	Recorder operated Aug.-Sept. 1971.				
Aug. 6, 1971	4.03	Aug. 28, 1971	4.45	Sept. 19, 1971	3.86	
7	4.05	29	3.80	20	3.87	
8	4.07	30	3.53	21	3.90	
9	4.10	31	3.63	22	3.92	
10	4.11	Sept. 1	3.66	23	3.93	
11	4.13	2	3.69	24	3.93	
12	4.17	3	3.40	25	3.94	
13	4.19	4	3.37	26	3.97	
14	4.22	5	3.46	27	3.99	
15	4.24	6	3.52	28	4.00	
16	4.27	7	3.54	29	4.01	
17	4.29	8	3.56	30	4.02	
18	4.30	9	3.59	Oct. 7	2.87	
19	4.34	10	3.62	14	3.18	
20	4.35	11	3.65	Nov. 2	1.87	
21	4.36	12	3.69	Dec. 1	.39	
22	4.38	13	3.71	Feb. 8, 1972	.10	
23	4.40	14	3.74	Mar. 7	.34	
24	4.41	15	3.77	Apr. 5	1.67	
25	4.42	16	3.80	May 1	1.96	
26	4.43	17	3.83	June 1	3.29	
27	4.45	18	3.85			
(B-9-2)12ccc-1.	Records available 1938-72.					
Oct. 13, 1938	4.77	Apr. 2, 1948	8.57	Aug. 20, 1965	7.13	
Dec. 8	6.83	Dec. 31	8.24	Oct. 15	7.68	
Apr. 6, 1939	8.55	Mar. 29, 1949	8.76	Dec. 13	9.57	
May 31	6.53	Dec. 12	7.29	Mar. 31, 1966	11.51	
Aug. 8	7.74	Mar. 30, 1950	8.36	Oct. 12	9.95	
Oct. 3	5.48	Dec. 4	5.70	Mar. 9, 1967	11.52	
Dec. 26	6.70	Mar. 28, 1951	7.82	Oct. 6	7.87	
Feb. 1, 1940	7.67	Nov. 1	6.11	Mar. 22, 1968	10.62	
Apr. 1	7.32	Jan. 11, 1952	8.51	Mar. 19, 1969	10.45	
June 25	6.48	Apr. 15	8.95	Oct. 8	9.72	
Oct. 10	7.07	Oct. 24	4.34	Apr. 1, 1970	11.51	
Dec. 19	6.45	Mar. 31, 1953	9.69	Sept. 8	6.55	
Mar. 12, 1941	6.94	Apr. 15, 1954	8.78	Oct. 1	8.67	
Oct. 7	5.48	Dec. 7	8.88	Nov. 2	10.41	
Dec. 11	6.41	Dec. 12, 1955	8.45	Dec. 3	10.60	
Mar. 5, 1942	6.44	Apr. 4, 1956	9.40	Jan. 19, 1971	11.30	
Aug. 22	4.84	Dec. 18	8.74	Feb. 12	11.56	
Dec. 30	5.92	Dec. 5, 1957	8.06	Mar. 9	11.88	
Mar. 6, 1943	4.97	Mar. 20, 1958	9.35	Apr. 1	11.86	
Sept. 27	3.65	Dec. 3	8.74	May 14	11.39	
Dec. 4	6.02	Dec. 22, 1959	10.29	June 2	10.34	
Apr. 13, 1944	7.55	Mar. 29, 1960	11.11	July 1	7.30	
Sept. 30	4.06	Apr. 5, 1961	11.86	Aug. 2	6.55	
Dec. 20	5.09	May 8, 1962	9.28	Sept. 2	7.21	
Mar. 3, 1945	4.96	Oct. 17	8.84	Oct. 7	8.60	
June 1	5.08	Mar. 6, 1963	10.85	Nov. 2	9.85	
Dec. 6	4.50	Dec. 17	10.59	Dec. 1	10.73	
Feb. 25, 1946	6.13	Mar. 13, 1964	11.61	Jan. 4, 1972	10.50	
Dec. 10	4.35	Nov. 24	10.03	Feb. 8	10.60	
Apr. 2, 1947	6.05	Mar. 5, 1965	10.43	Mar. 7	10.78	
Dec. 31	7.74					
(B-9-2)12ccd-1.	Records available 1937-53.					
Aug. 7, 1937	14.90	Feb. 1, 1940	16.44	Dec. 20, 1944	15.67	
Sept. 24	15.67	Apr. 1	16.05	Mar. 3, 1945	15.04	
Nov. 2	16.15	June 25	15.91	June 1	13.73	
Dec. 15	17.23	Oct. 10	16.30	Dec. 6	14.65	
Apr. 18, 1938	16.66	Dec. 19	16.52	Feb. 25, 1946	15.28	
June 25	14.55	Mar. 12, 1941	16.24	Apr. 2, 1947	15.06	
Aug. 18	14.92	Oct. 7	15.55	Apr. 2, 1948	15.25	
Oct. 13	15.66	Dec. 11	16.04	Mar. 29, 1949	15.15	
Dec. 8	16.47	Mar. 5, 1942	15.84	Mar. 30, 1950	12.97	
Feb. 6, 1939	17.28	Aug. 22	15.13	Dec. 4	14.43	
Mar. 25	16.86	Dec. 30	15.66	Mar. 28, 1951	15.00	
Apr. 6	16.88	Mar. 6, 1943	15.40	Nov. 1	14.81	
May 31	15.54	Sept. 27	14.90	Jan. 11, 1952	14.95	
Aug. 8	16.50	Dec. 4	15.94	Apr. 15	14.90	
Oct. 3	16.37	Apr. 13, 1944	17.04	Oct. 24	13.19	
Dec. 26	16.14	Sept. 30	14.47	Mar. 31, 1953	14.87	
(B-9-2)14dac-1.	Records available 1935-53, 1958-72.					
Oct. 4, 1935	22.10	Dec. 20, 1944	19.68	Aug. 20, 1965	17.61	
29	21.92	Mar. 3, 1945	21.20	Oct. 15	20.04	
Dec. 5	22.11	Dec. 6	18.00	Dec. 13	20.68	
Mar. 4, 1936	21.28	Feb. 25, 1946	20.32	Mar. 31, 1966	12.74	
Oct. 8	21.05	Dec. 10	18.67	Oct. 12	18.30	
Dec. 12	21.57	Apr. 2, 1947	21.69	Mar. 9, 1967	23.77	
Jan. 19, 1937	22.10	Dec. 31	20.77	Oct. 6	18.10	
Mar. 14	21.47	Apr. 2, 1948	22.58	Mar. 22, 1968	22.50	
Sept. 24	18.88	Dec. 31	20.53	Mar. 19, 1969	20.97	
Nov. 2	18.65	Mar. 29, 1949	22.17	Oct. 8	15.92	
Dec. 15	20.20	Dec. 12	20.57	Apr. 1, 1970	22.34	
Feb. 9, 1938	21.55	Mar. 30, 1950	21.96	Sept. 4	16.92	
Apr. 18	21.28	Dec. 4	20.43	Oct. 1	17.02	
May 14	20.20	Mar. 29, 1951	21.50	Nov. 2	19.64	
Feb. 6, 1939	21.03	Nov. 1	17.38	Dec. 3	21.08	
Apr. 6	21.64	Jan. 11, 1952	20.82	Jan. 19, 1971	21.90	
Oct. 3	20.10	Apr. 15	22.12	Feb. 12	21.94	
Dec. 26	20.91	Oct. 24	14.24	Mar. 9	22.64	
Feb. 1, 1940	21.26	Mar. 31, 1953	22.41	Apr. 1	23.02	
Apr. 1	21.12	Mar. 20, 1958	22.04	May 14	22.36	
Oct. 10	19.27	Dec. 3	20.00	June 2	19.65	
Dec. 19	21.64	Dec. 22, 1959	22.54	Sept. 2	14.97	
Mar. 12, 1941	21.07	Mar. 29, 1960	23.49	Oct. 7	17.20	
Oct. 7	18.36	Apr. 5, 1961	24.25	Nov. 2	19.39	
Dec. 11	20.40	May 8, 1962	21.92	Dec. 1	20.90	
Mar. 5, 1942	20.99	Oct. 17	17.35	Jan. 4, 1972	21.20	
Dec. 30	21.40	Mar. 6, 1963	23.15	Feb. 8	22.25	
Mar. 6, 1943	21.24	Dec. 17	21.34	Mar. 7	22.70	
Sept. 27	18.51	Mar. 12, 1964	23.33	Apr. 5	23.26	
Dec. 4	20.22	Nov. 24	19.87	May 1	23.42	
Apr. 13, 1944	22.56	Mar. 5, 1965	23.72			
(B-9-2)23dab-1.	Records available 1970-72.					
July 30, 1970	31.03	Apr. 1, 1971	36.45	Dec. 1, 1971	33.83	
Sept. 2	29.38	May 14	36.32	Jan. 4, 1972	34.49	
Oct. 1	30.68	June 2	35.23	Feb. 8	35.62	
Nov. 2	32.48	July 1	33.09	Mar. 7	36.17	
Dec. 3	34.05	Aug. 2	29.42	Apr. 5	36.62	
Jan. 19, 1971	35.30	Sept. 2	29.36	May 1	36.69	
Feb. 12	35.76	Oct. 7	30.78	June 1	34.88	
Mar. 9	36.08	Nov. 2	32.46			
(B-9-2)25bda-1.	Records available 1937-58.					
Jan. 6, 1937	24.75	May 14, 1938	18.30	Oct. 3, 1939	22.12	
Mar. 14	30.82	June 25	17.72	Dec. 28	24.00	
May 12	22.10	Aug. 18	19.90	Feb. 1, 1940	24.86	
Aug. 6	18.08	Oct. 13	22.13	Apr. 4	25.10	
Sept. 24	19.30	Dec. 8	22.93	June 25	20.45	
Nov. 2	21.65	Feb. 6, 1939	23.65	Oct. 10	18.18	
Dec. 15	23.08	Apr. 6	25.95	Dec. 19	23.84	
Feb. 10, 1938	22.21	May 31	22.15	Mar. 12, 1941	24.47	
Apr. 18	22.87	Aug. 5	21.71	Oct. 7	12.47	

Table 3.--Water levels in selected observation wells--Continued

(B-9-2)25bda-1 - Continued.

Dec. 11, 1941	17.07	Sept. 30, 1944	12.20	Dec. 4, 1950	23.84
Mar. 2, 1942	21.80	Dec. 20	18.22	Mar. 28, 1951	26.15
Dec. 30	15.97	Mar. 3, 1945	18.79	Nov. 1	21.37
Mar. 6, 1943	22.72	June 1	18.80	Apr. 15, 1952	23.10
July 28	14.49	Dec. 7	15.84	Oct. 24	16.43
Aug. 4	14.30	Feb. 25, 1946	22.18	Mar. 31, 1953	26.52
4	14.42	Dec. 10	15.02	Apr. 15, 1954	28.70
5	14.68	Apr. 2, 1947	20.30	Dec. 7	28.42
Sept. 26	13.86	Dec. 31	21.27	Dec. 13, 1955	24.15
27	13.92	Apr. 2, 1948	24.43	Apr. 4, 1956	24.15
Oct. 26	15.28	Dec. 31	20.62	Dec. 18	22.98
Dec. 4	18.82	Mar. 29, 1949	21.64	Dec. 5, 1957	20.10
Apr. 13, 1944	24.60	Dec. 12	21.07	Mar. 20, 1958	22.85
26	23.87	Mar. 30, 1950	26.60	Dec. 3	20.40

(B-9-2)26aaa-1. Records available 1970-72.

Aug. 4, 1970	32.25	Apr. 1, 1971	26.30	Dec. 1, 1971	25.54
Sept. 2	35.79	May 14	25.55	Jan. 4, 1972	25.27
Oct. 1	28.74	June 2	28.04	Feb. 8	25.13
Nov. 2	27.43	July 1	31.87	Mar. 7	25.11
Dec. 3	26.80	Aug. 2	31.10	Apr. 5	24.80
Jan. 19, 1971	26.40	Sept. 2	28.85	May 1	24.29
Feb. 12	26.36	Oct. 7	26.56	June 1	37.12

(B-9-2)35dcd-1. Records available 1935-59. Recorder operated from September 30, 1952, to August 31, 1955.

Oct. 4, 1935	46.40	Dec. 20, 1952	*39.65	Mar. 2, 1954	*41.47
29	45.78	25	*39.85	5	*41.51
Dec. 7	45.30	31	*40.07	10	*41.60
Mar. 4, 1936	44.77	Jan. 7, 1953	*40.31	15	*41.70
May 9	43.48	10	*40.45	20	*41.78
June 25	43.38	15	*40.62	25	*41.88
Aug. 13	46.85	21	*40.82	31	*41.97
Oct. 8	44.50	25	*40.88	Apr. 5	*42.04
Dec. 14	43.75	31	*40.97	8	*42.12
Jan. 6, 1937	43.66	Feb. 5	*41.06	15	*42.20
19	43.65	10	*41.14	20	*42.25
Mar. 14	43.64	15	*41.22	25	*42.30
May 12	40.90	20	*41.29	30	*41.70
Sept. 24	38.60	24	*41.34	May 4	*41.18
Nov. 2	39.25	28	*41.38	10	*41.11
Dec. 15	40.80	Mar. 5	*41.45	15	*40.92
Feb. 10, 1938	41.48	10	*41.53	20	*40.48
Apr. 18	42.00	15	*41.59	25	*40.41
May 14	41.60	20	*41.67	June 1	*40.49
June 25	39.00	24	*41.84	5	*40.46
Aug. 18	40.85	31	41.98	10	*40.23
Oct. 13	38.68	Apr. 5	*42.04	15	*40.20
Dec. 8	40.71	10	*42.10	20	*40.19
Feb. 6, 1939	42.07	15	*42.15	25	*39.92
Mar. 25	42.52	22	*42.19	30	*39.74
Apr. 6	42.56	25	*42.21	July 5	*39.64
May 31	41.74	30	*42.25	12	*39.15
Aug. 5	41.53	May 5	*42.32	15	*39.02
Oct. 3	38.09	10	*42.35	20	*38.87
Dec. 28	41.22	15	*42.24	25	*38.55
Feb. 1, 1940	42.00	20	*42.23	31	*38.30
Apr. 4	42.80	25	*42.24	Aug. 5	*38.03
June 25	38.06	31	*42.24	9	*37.75
Oct. 10	37.70	June 5	*42.06	15	*37.18
Dec. 19	40.93	10	*41.87	20	*36.28
Mar. 12, 1941	41.69	15	*41.34	25	*35.75
Oct. 7	32.87	20	*40.41	31	*35.33
Dec. 11	39.50	25	*39.71	Sept. 7	*34.54
Mar. 3, 1942	41.21	30	*38.35	10	*34.25
Aug. 22	32.41	July 5	*37.33	15	*33.95
Dec. 30	40.61	10	*36.58	20	*33.97
Dec. 4, 1943	39.24	15	*35.62	25	*34.05
Apr. 13, 1944	42.58	20	*34.80	30	*34.62
Dec. 20	39.59	27	*33.79	Oct. 4	*35.13
Mar. 3, 1945	41.77	31	*33.13	10	*35.68
June 1	39.45	Aug. 5	*32.40	15	*36.05
July 19	30.05	10	*31.58	20	*36.50
Dec. 7	37.83	15	*30.97	25	*36.83
Feb. 25, 1946	41.20	20	*30.75	31	*37.25
Dec. 10	39.56	24	*30.71	Nov. 5	*37.50
Apr. 2, 1947	41.98	31	*30.44	8	*37.68
Dec. 31	40.49	Sept. 5	*30.26	15	*38.10
Apr. 2, 1948	42.31	10	*30.04	20	*38.35
Dec. 31	39.94	17	*29.73	25	*38.45
Mar. 29, 1949	41.74	20	*30.25	Dec. 2	*38.58
Dec. 12	39.00	25	*31.05	5	*38.69
Mar. 30, 1950	41.63	28	*31.00	10	*38.88
Dec. 4	39.14	30	*31.34	15	*39.14
Mar. 29, 1951	41.60	Oct. 5	*31.50	20	*39.37
Oct. 26	34.90	10	*32.04	25	*39.60
Nov. 1	35.62	15	*32.95	29	*39.82
Jan. 11, 1952	40.11	20	*33.46	Jan. 5, 1955	*40.10
Apr. 15	40.76	27	*34.49	10	*40.28
Sept. 24	32.49	31	*34.93	15	*40.51
30	*33.45	Nov. 5	*35.43	20	*40.75
Oct. 5	*33.46	10	*35.62	25	*40.90
9	*33.23	15	*35.14	31	*41.00
15	*34.20	20	*34.75	Feb. 5	*41.12
20	*34.88	Dec. 8	*33.62	10	*41.25
24	35.40	Jan. 5, 1954	*41.20	15	*41.37
31	*36.28	8	*41.30	20	*41.53
Nov. 5	*36.80	11	*41.05	25	*41.66
10	*37.28	19	*40.38	Mar. 1	*41.75
15	*37.67	25	*40.67	5	*41.85
20	*38.11	Feb. 2	*40.83	10	*41.90
25	*38.38	5	*40.82	15	*41.93
30	*38.67	10	*40.95	20	*41.90
Dec. 5	*38.95	15	*41.07	25	*41.88
10	*39.23	20	*41.19	31	*41.74
15	*39.44	25	*41.28	Apr. 5	*41.74

(B-9-2)35dcd-1 - Continued.

Apr. 10, 1955	*41.75	Aug. 20, 1955	*31.15	May 14, 1957	41.45
15	*41.79	31	*29.40	June 5	40.83
20	*41.82	Sept. 6	*29.78	July 1	*38.04
25	*41.85	Oct. 3	*32.85	9	36.30
May 1	*41.90	31	*35.80	Aug. 6	30.81
5	*41.91	Dec. 5	*38.50	Sept. 6	27.60
10	*41.95	Jan. 5, 1956	*40.00	Oct. 10	32.71
15	*41.92	Feb. 7	*40.65	Nov. 7	36.14
20	*41.75	Mar. 5	*41.10	Dec. 4	38.28
25	*37.95	Apr. 6	*41.36	Jan. 13, 1958	40.05
June 2	*36.94	30	*41.67	Feb. 11	40.85
5	*36.40	June 4	*37.75	Mar. 5	41.23
10	*36.31	July 2	*33.35	Apr. 7	41.60
15	*35.96	Aug. 7	*30.38	May 6	41.58
20	*35.06	Sept. 6	*32.25	June 4	37.66
25	*34.57	Oct. 1	*34.20	July 16	32.42
30	*34.20	Nov. 5	*37.58	Aug. 6	31.75
July 5	*33.43	Dec. 3	*39.80	Sept. 3	30.20
10	*32.72	Jan. 3, 1957	*40.17	Oct. 8	34.67
15	*32.02	Feb. 4	41.16	Nov. 3	35.97
20	*31.32	Mar. 12	*41.73	Dec. 8	38.75
25	*31.03	Apr. 1	*40.51	Jan. 7, 1959	40.09
Aug. 1	*31.55	3	41.94	Feb. 4	40.90
5	*31.55	May 6	*41.67	Mar. 3	41.45
10	*31.15				

(B-9-3)15bbb-1. Records available 1936-54.

Mar. 7, 1936	1.62	May 31, 1939	4.47	Dec. 6, 1945	6.17
May 12	4.62	Aug. 8	4.88	Feb. 25, 1946	5.85
June 27	3.86	Sept. 30	4.88	Dec. 10	1.92
Aug. 16	4.48	Dec. 26	4.40	Apr. 2, 1947	4.28
Oct. 8	3.28	Apr. 1, 1940	4.69	Dec. 31	5.24
Dec. 12	5.02	June 25	3.26	Apr. 2, 1948	4.83
Mar. 14, 1937	.36	Oct. 10	4.39	Dec. 31	5.24
May 13	4.32	Dec. 17	5.11	Mar. 28, 1949	1.31
Aug. 6	5.02	Mar. 13, 1941	2.69	Dec. 12	4.14
Sept. 24	3.80	Oct. 7	4.33	Mar. 30, 1950	1.96
Dec. 15	3.53	Dec. 11	4.57	Dec. 4	2.66
Feb. 10, 1938	2.04	Mar. 5, 1942	4.22	Mar. 28, 1951	2.24
Apr. 18	5.42	Aug. 22	4.71	Nov. 1	5.04
June 25	3.77	Dec. 30	5.17	Apr. 15, 1952	1.32
Aug. 18	4.97	Mar. 6, 1943	5.00	Oct. 24	4.59
Oct. 13	4.73	Dec. 4	5.10	Mar. 31, 1953	5.00
Dec. 10	4.71	Apr. 13, 1944	5.42	Nov. 5	4.46
Feb. 9, 1939	7.29	Dec. 20	5.70	Apr. 15, 1954	4.95
Apr. 6	4.13	Mar. 3, 1945	4.45	Dec. 7	3.92

(B-10-2)26baa-2. Records available 1970-72.

Nov. 16, 1970	10.10	June 2, 1971	7.63	Jan. 4, 1972	6.85
Dec. 3	9.70	July 1	8.10	Feb. 8	6.65
Jan. 19, 1971	8.98	Aug. 2	6.00	Mar. 7	6.89
Feb. 12	7.94	Sept. 2	5.72	Apr. 5	8.27
Mar. 9	8.26	Oct. 7	7.14	May 1	8.00
Apr. 1	8.82	Nov. 2	8.10	June 1	7.90
May 14	7.70	Dec. 1	8.18		

(B-10-3)8cdb-1. Records available 1936-62, 1964-72.

Mar. 7, 1936	7.05	Dec. 30, 1942	6.81	Dec. 3, 1958	8.78
May 12	6.69	Mar. 6, 1943	5.89	Mar. 24, 1959	8.92
June 27	7.90	Dec. 4	8.38	Dec. 22	9.08
Aug. 14	8.71	Apr. 13, 1944	7.10	Mar. 29, 1960	8.13
Oct. 8	8.94	Dec. 20	8.63	Apr. 5, 1961	8.97
Dec. 12	8.37	Mar. 3, 1945	7.45	May 8, 1962	8.43
Mar. 14, 1937	3.59	Dec. 6	6.88	Mar. 13, 1964	8.79
May 13	4.95	Feb. 25, 1946	6.69	Aug. 20, 1965	5.71
Aug. 6	7.75	Dec. 10	7.21	Oct. 15	6.60
Sept. 24	8.70	Apr. 2, 1947	5.40	Dec. 13	7.82
Dec. 15	7.30	Dec. 31	7.57	Oct. 12, 1966	6.16
Feb. 10, 1938	6.70	Apr. 2, 1948	6.79	Mar. 9, 1967	6.42
Apr. 18	6.20	Dec. 31	7.85	Oct. 6	5.13
June 25	7.80	Mar. 29, 1949	4.90	Mar. 22, 1968	5.59
Aug. 18	8.20	Dec. 8	6.66	Oct. 8, 1969	5.72
Oct. 13	8.16	Mar. 30, 1950	5.32	Mar. 24, 1970	7.30
Dec. 10	7.28	Dec. 4	5.87	Sept. 8	5.75
Apr. 6, 1939	5.15	Mar. 28, 1951	4.40	Oct. 1	5.98
Aug. 8	8.18	Nov. 1	5.38	Mar. 11, 1971	5.74
Sept. 30	8.47	Apr. 15, 1952	3.00	Apr. 14	6.46
Dec. 26	7.94	Mar. 31, 1953	5.57	May 11	5.95
Apr. 1, 1940	6.64	Nov. 5	5.57	June 21	5.39
June 25	8.26	Apr. 15, 1954	5.70	July 20	4.03
Oct. 10	8.67	Dec. 7	5.55	Aug. 18	3.90
Dec. 17	8.28	Dec. 12, 1955	8.23	Sept. 21	4.50
Mar. 13, 1941	4.81	Apr. 4, 1956	7.75	Oct. 20	4.98
Oct. 7	7.77	Dec. 18	8.85	Mar. 20, 1972	5.55
Dec. 11	7.09	Mar. 28, 1957	8.63	May 2	6.30
Mar. 4, 1942	5.90	Dec. 5	7.83	June 1	6.58
Aug. 22	7.94	Mar. 20, 1958	7.78		

(B-10-3)9aaa-1. Records available 1936-40.

Mar. 7, 1936	3.57	Sept. 24, 1937	4.75	Apr. 6, 1939	3.70
May 12	6.60	Dec. 15	5.65	May 31	4.08
June 27	3.41	Feb. 10, 1938	1.40	Aug. 8	5.67
Aug. 14	1.18	Apr. 18	5.45	Sept. 30	2.96
Oct. 8	4.42	June 25	1.00	Dec. 26	6.32
Dec. 12	10.41	Aug. 18	3.75	Apr. 1, 1940	4.07
Mar. 14, 1937	1.50	Oct. 13	2.26	June 25	2.94
May 13	8.96	Dec. 10	2.65	Oct. 10	3.10
Aug. 6	3.93	Feb. 9, 1939	5.24	Dec. 17	4.00

(B-10-3)12dba-1. Records available 1971-72.

Mar. 26, 1971	6.44	Aug. 18, 1971	5.80	Jan. 28, 1972	6.00
Apr. 14	6.71	Sept. 21	5.10	Mar. 2	6.25
May 11	6.36	Oct. 20	6.25	Apr. 7	6.73
June 21	5.09	Nov. 24	6.51	May 2	6.78
July 20	5.16	Dec. 28	5.54	June 1	4.90

Table 3.--Water levels in selected observation wells--Continued

(B-10-3)32aaa-1.	Records available 1938-72.					
Oct. 13, 1938	3.70	Mar. 28, 1949	2.55	Dec. 13, 1965	4.37	
Dec. 10	3.11	Dec. 12	5.21	Oct. 12, 1966	4.01	
Apr. 6, 1939	4.04	Mar. 30, 1950	5.45	Mar. 9, 1967	4.70	
May 31	3.97	Dec. 4	2.24	Oct. 6	4.77	
Aug. 8	2.42	Mar. 28, 1951	5.25	Mar. 22, 1968	2.11	
Sept. 30	3.08	Nov. 1	5.31	Oct. 8, 1969	3.88	
Dec. 26	5.44	Apr. 15, 1952	4.50	Apr. 1, 1970	4.36	
Apr. 1, 1940	4.55	Oct. 24	5.65	Sept. 8	3.22	
June 25	4.27	Mar. 31, 1953	5.92	Oct. 1	3.92	
Oct. 10	4.32	Nov. 5	5.72	Nov. 10	2.36	
Dec. 17	3.65	Apr. 15, 1954	6.45	Dec. 4	2.08	
Mar. 13, 1941	2.87	Dec. 7	4.70	Jan. 22, 1971	1.60	
Oct. 7	2.43	Dec. 12, 1955	5.88	Mar. 11	3.90	
Dec. 11	2.98	Apr. 4, 1956	4.70	Apr. 14	4.68	
Mar. 5, 1942	3.40	Dec. 18	3.18	May 11	4.29	
Aug. 22	3.60	Mar. 28, 1957	3.93	June 21	3.38	
Dec. 30	3.84	Dec. 5	4.27	July 20	2.53	
Mar. 6, 1943	4.16	Mar. 20, 1958	3.66	Aug. 18	2.45	
Dec. 4	4.14	Dec. 3	4.60	Sept. 21	3.01	
Apr. 13, 1944	5.46	Mar. 24, 1959	4.99	Oct. 20	3.63	
Dec. 20	4.97	Dec. 22	4.75	Nov. 24	3.55	
Mar. 3, 1945	5.42	Mar. 29, 1960	3.69	Dec. 28	1.92	
Dec. 6	5.13	Apr. 5, 1961	4.53	Jan. 28, 1972	3.49	
Dec. 10, 1946	1.63	May 8, 1962	4.39	Mar. 2	3.52	
Apr. 2, 1947	4.19	Mar. 13, 1964	4.11	Apr. 7	4.58	
Dec. 31	6.01	Aug. 20, 1965	3.95	May 2	4.68	
Apr. 2, 1948	4.70	Oct. 15	3.97	June 1	3.05	
Dec. 31	6.51					
(B-11-3)5bba-1.	Records available 1965-71.					
Aug. 27, 1965	*72.90	Mar. 1, 1967	*86.64	Mar. 20, 1970	87.80	
Apr. 20, 1966	*83.10	Apr. 5, 1968	*87.14	Mar. 23, 1971	87.13	
Dec. 1	*86.10	Apr. 15, 1969	*84.46	June 18	87.52	
(B-11-3)5bbb-1.	Records available 1965-72.					
Aug. 24, 1965	*26.50	Mar. 1, 1967	*27.15	Mar. 20, 1970	32.26	
Apr. 20, 1966	*30.40	Apr. 5, 1968	*28.20	Mar. 23, 1971	13.54	
Dec. 1	*35.80	Apr. 15, 1969	*4.00	Mar. 6, 1972	12.88	
(B-11-3)5bbb-2.	Records available 1966-71.					
Dec. 1, 1966	*156.40	Nov. 10, 1970	154.10	June 18, 1971	150.64	
Mar. 1, 1967	*157.40	Dec. 4	154.41	July 20	147.05	
Apr. 5, 1968	*156.75	Jan. 22, 1971	154.73	Aug. 18	146.74	
Apr. 15, 1969	*150.29	Mar. 23	151.40	Sept. 21	147.00	
Mar. 20, 1970	151.59	Apr. 14	150.48	Oct. 20	147.42	
Sept. 8	153.21	May 11	149.97	Dec. 28	148.39	
Oct. 1	153.62					
(B-11-3)6dbd-1.	Records available 1965-72.					
Sept. 7, 1965	*70.90	Nov. 10, 1970	71.18	Sept. 21, 1971	70.66	
Apr. 20, 1966	*71.80	Dec. 4	71.30	Oct. 20	70.85	
Dec. 1	*71.50	Jan. 22, 1971	71.25	Nov. 24	71.04	
Mar. 1, 1967	*71.75	Mar. 23	71.36	Dec. 28	70.97	
Apr. 5, 1968	*71.79	Apr. 14	71.46	Jan. 28, 1972	71.10	
Apr. 16, 1969	*71.37	May 11	71.46	Mar. 6	70.90	
Mar. 23, 1970	71.26	June 18	70.84	Apr. 7	71.14	
July 29	70.76	July 20	70.66	May 2	70.89	
Oct. 1	70.92	Aug. 18	70.79	June 1	71.76	
(B-11-3)21bbb-1.	Records available 1935-40.					
Oct. 29, 1935	+6.7	Sept. 24, 1937	+6.4	Apr. 6, 1939	+7.8	
Mar. 7, 1936	+6.3	Dec. 15	+8.0	May 31	+8.0	
May 12	+5.7	Feb. 10, 1938	+8.2	Aug. 8	+7.2	
June 27	+6.7	Apr. 18	+8.0	Sept. 30	+6.5	
Aug. 14	+6.4	June 25	+8.1	Dec. 26	+6.7	
Oct. 11	+6.6	Aug. 18	+7.8	Apr. 1, 1940	+6.8	
Dec. 12	+6.4	Oct. 13	+6.9	June 25	+7.5	
Mar. 14, 1937	+7.6	Dec. 10	+8.2	Oct. 10	+7.2	
May 13	+6.6	Feb. 9, 1939	+6.8	Dec. 17	+7.4	
Aug. 6	+6.6					
(B-11-3)21bbb-2.	Records available 1936-47.					
Oct. 11, 1936	3.25	Apr. 6, 1939	3.60	Mar. 4, 1942	3.38	
Dec. 12	3.45	May 31	3.46	Aug. 22	4.17	
May 13, 1937	3.49	Aug. 8	3.71	Dec. 30	3.90	
Aug. 6	3.40	Sept. 30	3.70	Mar. 6, 1943	3.80	
Sept. 24	2.75	Dec. 26	3.92	Dec. 4	4.03	
Dec. 15	2.33	Apr. 1, 1940	3.66	Apr. 13, 1944	4.00	
Feb. 10, 1938	3.14	June 25	3.28	Dec. 20	4.30	
Apr. 18	3.88	Oct. 10	4.03	Mar. 3, 1945	3.91	
June 25	3.95	Dec. 17	4.03	Dec. 6	3.74	
Aug. 18	3.88	Mar. 13, 1941	2.67	Feb. 25, 1946	4.08	
Oct. 13	3.86	Oct. 7	3.03	Dec. 10	3.60	
Dec. 10	3.53	Dec. 11	3.70	Apr. 2, 1947	4.00	
Feb. 9, 1939	3.53					
(B-11-3)33cdd-1.	Records available 1970-72.					
Mar. 24, 1970	4.04	Apr. 14, 1971	4.13	Nov. 24, 1971	3.64	
Sept. 8	2.59	May 11	3.74	Dec. 28	1.41	
Oct. 1	3.26	June 21	3.58	Jan. 28, 1972	2.40	
Nov. 10	1.97	July 20	3.18	Mar. 2	2.89	
Dec. 4	1.93	Aug. 18	2.87	Apr. 7	4.19	
Jan. 22, 1971	.91	Sept. 21	3.58	May 2	4.52	
Mar. 11	3.43	Oct. 20	4.18	June 1	3.57	
(B-11-4)11aaa-1.	Records available 1936-52.					
Oct. 11, 1936	7.32	June 25, 1938	7.25	Apr. 1, 1940	7.02	
Dec. 12	7.82	Aug. 18	6.78	June 25	7.05	
Jan. 19, 1937	8.25	Oct. 13	6.54	Oct. 10	5.98	
Mar. 14	8.73	Dec. 10	6.50	Dec. 17	6.67	
May 13	8.54	Feb. 9, 1939	6.87	Mar. 14, 1941	7.12	
Aug. 6	7.53	Apr. 6	7.28	Oct. 7	6.17	
Sept. 24	6.90	May 31	6.68	Mar. 4, 1942	7.25	
Dec. 15	6.95	Aug. 8	6.02	Aug. 22	6.04	
Feb. 10, 1938	7.37	Sept. 30	5.83	Dec. 30	5.90	
Apr. 18	7.80	Dec. 26	6.40	Mar. 6, 1943	6.04	
(B-11-4)11aaa-1 - Continued.						
Dec. 4, 1943	5.55	Apr. 2, 1947	5.78	Mar. 30, 1950	6.05	
Apr. 13, 1944	6.48	Dec. 31	5.10	Dec. 4	5.30	
Mar. 3, 1945	6.57	Apr. 2, 1948	5.97	Mar. 28, 1951	6.28	
Dec. 6	6.15	Dec. 31	5.98	Aug. 27	5.32	
Feb. 25, 1946	6.73	Mar. 29, 1949	6.28	Nov. 1	5.43	
Dec. 10	5.11	Dec. 8	5.11	Apr. 15, 1952	5.40	
(B-11-4)23bcc-1.	Records available 1970-72.					
Sept. 17, 1970	+7.0	May 11, 1971	+5.3	Sept. 21, 1971	+6.2	
Oct. 1	+6.9	June 21, 1971	+5.5	Mar. 10, 1972	+4.7	
Mar. 25, 1971	+5.3	July 20	+6.2	May 2	+4.4	
Apr. 14	+5.2	Aug. 18	+6.0	June 1	+5.2	
(B-11-4)27bcb-1.	Records available 1970-72.					
Mar. 23, 1970	26.66	Apr. 14, 1971	26.14	Nov. 24, 1971	23.90	
Sept. 8	22.13	May 11	26.58	Dec. 28	24.90	
Oct. 1	22.52	June 17	24.84	Mar. 6, 1972	26.07	
Nov. 10	24.05	July 20	20.92	Apr. 7	26.53	
Dec. 4	24.51	Aug. 18	20.54	May 2	26.87	
Jan. 22, 1971	25.97	Sept. 21	22.51	June 1	25.19	
Mar. 11	25.56	Oct. 20	23.09			
(B-12-2)18bcb-1.	Records available 1970-72.					
June 29, 1970	4.44	Apr. 1, 1971	6.27	Dec. 1, 1971	4.51	
Sept. 2	2.70	May 14	6.60	Jan. 4, 1972	4.89	
Oct. 1	2.60	June 2	7.21	Feb. 8	5.19	
Nov. 2	4.25	July 1	4.85	Mar. 7	4.65	
Dec. 3	3.00	Aug. 2	2.90	Apr. 5	6.31	
Jan. 19, 1971	3.80	Sept. 2	3.46	May 1	7.30	
Feb. 12	4.05	Oct. 7	3.16	June 1	5.50	
Mar. 9	5.36	Nov. 2	4.46			
(B-12-3)11dad-1.	Records available 1971-72.					
Mar. 25, 1971	8.61	Aug. 18, 1971	5.94	Jan. 28, 1972	6.94	
Apr. 14	9.68	Sept. 21	8.36	Mar. 2	9.28	
May 11	8.11	Oct. 20	9.42	Apr. 7	9.70	
June 21	8.17	Nov. 24	10.43	May 2	10.96	
July 20	6.20	Dec. 28	8.37	June 1	6.15	
(B-12-3)11dbd-1.	Records available 1936-39.					
Aug. 14, 1936	5.19	Sept. 24, 1937	3.85	Aug. 18, 1938	4.50	
Oct. 11	4.90	Dec. 15	3.30	Dec. 10	5.40	
Jan. 18, 1937	8.77	Feb. 10, 1938	5.98	Feb. 8, 1939	7.89	
Mar. 13	.85	Apr. 18	6.00	Apr. 6	2.77	
May 13	5.73	June 25	3.65	May 31	3.34	
Aug. 6	5.60					
(B-12-3)11dbd-2.	Records available 1939-47.					
Aug. 8, 1939	3.93	Dec. 11, 1941	6.44	Mar. 3, 1945	3.27	
Sept. 28	4.12	Mar. 4, 1942	7.05	June 1	5.21	
Dec. 26	8.70	Aug. 22	3.07	July 19	2.00	
Apr. 1, 1940	6.02	Dec. 30	5.08	Oct. 23	5.24	
June 25	2.90	Mar. 6, 1943	5.06	Dec. 6	4.44	
Oct. 9	6.92	Dec. 4	7.24	Feb. 25, 1946	6.14	
Dec. 17	8.23	Apr. 13, 1944	5.85	Dec. 10	2.40	
Mar. 14, 1941	1.76	Dec. 20	6.35	Apr. 2, 1947	5.70	
Oct. 7	4.45					
(B-12-3)15cdc-1.	Records available 1970-72.					
Mar. 13, 1970	174.34	Mar. 25, 1971	174.99	Nov. 23, 1971	173.98	
July 27	175.23	Apr. 15	175.03	Mar. 6, 1972	173.60	
Sept. 8	174.65	June 21	174.52	May 2	173.06	
Oct. 1	174.60					
(B-12-3)26acd-1.	Records available 1936-38.					
June 26, 1936	11.20	Jan. 18, 1937	15.61	Sept. 24, 1937	7.60	
Aug. 14	7.61	Mar. 13	9.45	Dec. 15	11.80	
Oct. 11	11.10	May 13	13.83	Feb. 10, 1938	14.33	
Dec. 12	13.60	Aug. 6	9.95			
(B-12-3)33dad-1.	Records available 1970-72.					
Sept. 10, 1970	3.38	Apr. 14, 1971	3.62	Sept. 21, 1971	3.40	
Oct. 1	3.58	May 11	2.20	Oct. 20	2.80	
Nov. 10	2.70	June 21	3.44	Dec. 28	1.60	
Dec. 4	1.79	July 20	2.92	Jan. 28, 1972	2.20	
Jan. 22, 1971	1.60	Aug. 18	3.44	Mar. 6	1.80	
Mar. 23	3.47					
(B-12-4)22ccd-1.	Records available 1965-72.					
June 22, 1965	*211.50	Nov. 10, 1970	212.26	Aug. 18, 1971	213.99	
Sept. 7	*211.50	Dec. 4	211.97	Sept. 21	214.10	
Apr. 20, 1966	*210.90	Mar. 22, 1971	211.44	Oct. 20	213.18	
Nov. 30	*210.70	Apr. 1	211.25	Nov. 19	212.59	
Mar. 1, 1967	*210.50	14	210.60	Jan. 28, 1972	211.81	
Apr. 5, 1968	*210.70	28	210.83	Mar. 6	211.13	
Apr. 16, 1969	*210.79	May 11	210.93	10	211.19	
Mar. 20, 1970	210.32	14	210.77	Apr. 7	211.23	
Aug. 3	212.99	26	210.64	May 2	211.10	
Sept. 8	213.53	June 21	211.29	June 1	212.21	
Oct. 1	213.54	July 20	212.83			
(B-12-4)22cda-1.	Records available 1936, 1964-67, 1970-72.					
Oct. 9, 1936	194.2	Sept. 7, 1965	*198.3	Mar. 20, 1970	197.00	
Jan. 7, 1964	*198.9	Apr. 20, 1966	*197.4	Mar. 22, 1971	197.52	
Apr. 3	*197.7	Nov. 30	*197.8	Oct. 20	199.03	
Jan. 6, 1965	*198.5	Mar. 1, 1967	*196.22	Mar. 6, 1972	197.79	
June 22	*197.9					
(B-12-4)23cdd-1.	Records available 1965-72.					
Aug. 27, 1965	*155.0	Mar. 1, 1967	*154.66	Mar. 23, 1970	156.30	
Apr. 20, 1966	*155.3	Apr. 5, 1968	*155.19	Mar. 23, 1971	155.20	
Nov. 30	*154.0	Apr. 16, 1969	*155.10	Mar. 6, 1972	155.45	
(B-12-4)34bbd-1.	Records available 1964-67, 1970-72					
Jan. 7, 1964	*123.8	June 6, 1965	*120.8	Apr. 20, 1966	*123.0	
Apr. 3	*125.8	Aug. 27	*124.0	Nov. 30	*123.0	

Table 3.--Water levels in selected observation wells--Continued

(B-12-4)34bbd-1 - Continued.						
Mar. 1, 1967	*123.05	Mar. 23, 1971	122.39	Mar. 10, 1972	122.68	
Mar. 20, 1970	121.90	May 26	122.51			
(B-12-4)34cbd-1.	Records available 1965-72.					
Sept. 7, 1965	*119.0	Apr. 5, 1968	*118.53	Mar. 23, 1971	118.20	
Apr. 20, 1966	*118.4	Apr. 16, 1969	*118.32	May 26	118.22	
Nov. 30	*118.5	Mar. 23, 1970	119.82	Mar. 10, 1972	118.47	
Mar. 1, 1967	*118.62					
(B-12-4)35bbc-1.	Records available 1967-72.					
Mar. 1, 1967	*70.47	Mar. 22, 1971	70.44	Oct. 20, 1971	72.32	
Apr. 5, 1968	*70.83	Apr. 1	70.54	Nov. 19	71.55	
Apr. 15, 1969	*72.27	14	70.20	Dec. 28	71.00	
Mar. 20, 1970	69.62	28	70.31	Jan. 28, 1972	70.97	
Sept. 8	76.97	May 11	70.41	Mar. 6	70.63	
Oct. 1	74.83	14	70.31	10	70.66	
Nov. 10	71.25	26	70.24	Apr. 7	70.64	
Dec. 4	70.96	June 21	72.52	May 2	70.65	
Jan. 27, 1971	70.60	Sept. 21	77.42			
(B-13-2)17bbc-1.	Records available 1970-72.					
May 21, 1970	11.45	Apr. 14, 1971	10.91	Nov. 24, 1971	11.75	
July 21	19.62	May 11	7.82	Mar. 2, 1972	10.25	
Nov. 10	22.34	June 17	8.50	Apr. 7	9.05	
Dec. 4	21.65	Aug. 18	10.75	May 2	6.83	
Jan. 22, 1971	17.40	Sept. 21	11.78	June 1	6.28	
Mar. 9	13.00	Oct. 20	11.52			
(B-13-3)4cdd-1.	Records available 1970-72.					
July 13, 1970	41.14	Nov. 10, 1970	41.14	Mar. 9, 1971	41.01	
Sept. 4	41.09	Dec. 4	41.15	Mar. 2, 1972	40.08	
Oct. 1	41.09					
(B-13-3)11dad-1.	Records available 1970-72.					
July 21, 1970	5.23	Apr. 14, 1971	2.20	Nov. 24, 1971	3.40	
Sept. 4	6.01	May 11	1.62	Dec. 28	1.89	
Oct. 1	5.30	June 21	3.50	Jan. 28, 1972	.99	
Nov. 10	4.21	Aug. 18	6.70	Mar. 2	1.14	
Dec. 4	3.32	Sept. 21	4.72	Apr. 7	2.08	
Jan. 22, 1971	2.49	Oct. 20	4.07	May 2	2.48	
Mar. 9	1.56					
(B-13-3)28ada-1.	Records available 1970-72.					
July 28, 1970	232.97	June 17, 1971	233.56	Mar. 2, 1972	231.60	
Sept. 4	233.01	Aug. 18	234.04	Apr. 7	231.21	
Oct. 1	233.06	Sept. 21	232.10	May 2	230.94	
Mar. 16, 1971	233.18	Oct. 20	233.81	June 1	230.75	
Apr. 14	233.04					
(B-13-3)35dda-1.	Records available 1970-72.					
July 22, 1970	42.15	Mar. 9, 1971	41.45	Sept. 21, 1971	39.32	
Sept. 4	40.40	Apr. 14	42.18	Oct. 20	38.81	
Oct. 1	39.69	May 11	43.01	Nov. 24	39.08	
Nov. 10	39.52	June 21	42.94	Mar. 2, 1972	40.46	
Dec. 4	39.90	July 20	42.12	Apr. 7	41.20	
Jan. 22, 1971	40.75	Aug. 18	40.84	June 1	41.80	
(B-14-3)7abb-1.	Records available 1970-72.					
Mar. 13, 1970	52.98	Jan. 22, 1971	53.53	Oct. 20, 1971	52.39	
May 26	53.01	Mar. 8	53.39	Nov. 24	52.22	
July 10	53.18	Apr. 14	53.19	Dec. 28	52.11	
Aug. 3	53.18	May 11	53.07	Jan. 28, 1972	52.12	
Sept. 4	53.25	June 17	52.77	Mar. 2	52.19	
Oct. 1	53.45	July 20	52.63	Apr. 7	52.18	
Nov. 10	53.52	Aug. 18	52.66	May 2	52.00	
Dec. 4	53.45	Sept. 21	52.59	June 1	51.94	
(B-14-3)10bbb-1.	Records available 1970-72.					
May 26, 1970	12.23	June 21, 1971	12.14	Dec. 28, 1971	11.86	
Sept. 4	12.40	July 20	12.11	Jan. 28, 1972	11.81	
Nov. 10	12.42	Aug. 18	12.15	Mar. 2	11.68	
Mar. 8, 1971	12.26	Sept. 21	12.09	Apr. 7	11.61	
Apr. 14	12.20	Oct. 20	12.11	May 2	11.60	
May 11	12.14	Nov. 24	11.91	June 1	11.60	
(B-14-3)17cdc-1.	Records available 1970-72.					
July 10, 1970	10.43	Apr. 14, 1971	10.70	Nov. 24, 1971	10.03	
Sept. 4	10.43	May 11	10.77	Dec. 28	10.02	
Oct. 1	10.60	June 21	10.47	Jan. 28, 1972	9.98	
Nov. 10	10.70	July 20	10.35	Mar. 2	9.81	
Dec. 4	10.76	Aug. 18	10.29	Apr. 7	9.67	
Jan. 22, 1971	10.84	Sept. 21	10.38	May 2	9.60	
Mar. 8	10.78	Oct. 20	10.12	June 1	9.48	

Table 4.--Selected drillers' logs of wells

Altitudes are in feet above mean sea level for the land surface at the well.
Thickness of unit in feet.
Depth to base of unit in feet below land surface.

Material	Thickness	Depth
(B-8-2)2abb-1. Log by Robinson Drilling Co. Alt. 4,342 ft.		
Gravel	28	28
Gravel, coarse	46	74
Gravel, boulders, and some clay	19	93
Gravel and some clay; show of water	14	107
Gravel, coarse, and sand with clay	8	115
Gravel with boulders; water	9	124
Clay, yellow	4	128
Gravel and clay (water level 82 ft)	12	140
Gravel, clay, and boulders	25	165
Conglomerate, hard	24	189
Gravel, coarse; water	3	192
Conglomerate	14	206
Gravel; water	3	209
Conglomerate, hard	23	232
Gravel, fine; water	38	270
Gravel and clay	23	293
Gravel, fine, with clay; water	11	304
Gravel, fine; water	3	307
Sand, fine; water	3	310
Clay and gravel	7	317
Gravel with clay seams; water	17	334
(B-8-2)3dbd-8. Log by Wasatch Drilling Co. Alt. 4,268 ft.		
Soil	4	4
Clay	20	24
Stone	1	25
Sand	25	50
Clay	3	53
Sand	20	73
Gravel	4	77
(B-8-2)14bda-1. Log by Robinson Drilling Co. Alt. 4,315 ft.		
Topsoil	5	5
Sand and gravel	5	10
Gravel and yellow clay	10	20
Sand, fine, and fine gravel	20	40
Clay, blue, gravel, and small boulders	15	55
Gravel and some blue clay	15	70
Clay, gray	10	80
Gravel and some clay	15	95
Conglomerate, coarse	15	110
Gravel and boulders with some clay	10	120
Gravel and some clay	32	152
Conglomerate	53	205
Conglomerate with some clay	17	222
Conglomerate	26	248
Conglomerate, hard	36	284
Gravel	2	286
Conglomerate	7	293
Boulders and sand	39	332
(B-8-2)21aab-1. Log by Elwin Taylor. Alt. 4,205 ft.		
Fill, gravel	2	2
Clay	21	23
Clay, silt, and sand; blue, muddy	101	124
Clay, gray, and some silt	46	170
Clay and streaks of sand	81	251
Clay and fine brown sand	25	276
Cobbles and clay	14	290
Clay, brownish-gray	137	427
Clay and streaks of fine hard sand	119	546
Cobbles, sand, and silt; some gas with water	21	567
(B-9-1)19bcd-1. Log by H. M. Robinson and Son. Alt. 4,542 ft.		
Gravel and a little clay	20	20
Gravel and large boulders	5	25
Gravel	5	30
Gravel and large boulders	5	35
Gravel	80	115
Gravel and clay	10	125
Clay	25	150
Sand	5	155
Clay, sandy	15	170
Gravel, cemented; water	65	235
Gravel, fine	23	258
Clay, blue	1	259
Gravel, fine	11	270
Gravel, cemented; water	50	320
Gravel and a little clay	92	412
(B-9-1)22bab-1. Log by Robinson Drilling Co. Alt. 5,170 ft.		
Clay and silt	2	2
Clay	23	25
Gravel	10	35
Conglomerate	40	75
Gravel; water	8	83
Limestone	2	85
(B-9-1)26bbb-1. Log by driller (not known). Alt. 5,168 ft.		
Peat	2	2
Gravel and clay	6	8
Peat	3	11
Gravel and clay	20	31
Clay, brown	4	35
Clay and some gravel	38	73
Gravel	9	82
Clay	3	85
Clay, blue, and some gravel	20	105
Peat	50	155
Clay and some gravel	29	184
Gravel	12	196
Clay and some gravel	9	205
Clay	15	220
Clay and some gravel	18	238
Clay	7	245
Clay and gravel	33	278
Clay, blue	56	334
Clay, brown	23	357
Gravel and clay	4	361
Peat	3	364
Gravel and clay	10	374
Clay	4	378
Boulders and clay	7	385
Clay, blue	5	390
Clay, gravelly	6	396
Clay, blue	22	418
Gravel and clay	13	431
Clay, gray	9	440
Gravel and clay	2	442
Gravel	3	445
Gravel and clay	13	458
Boulders and clay	19	477
Clay, gray	18	495
Boulders and clay	10	505
(B-9-1)27bcd-1. Log by J. S. Lee and Sons. Alt. 5,221 ft.		
Topsoil	2	2
Gravel, clay, and boulders	34	36
Clay	2	38
Clay, gravel, and boulders	37	75
Gravel	2	77
Clay, gravel, and boulders	15	92
Gravel	8	100
Clay, gravel, and boulders	15	115
Clay and gravel	36	151
Gravel	4	155
Clay, gravel, and boulders	30	185
Gravel	9	194
Clay and gravel	12	206
Clay	14	220
Gravel	4	224
Clay and gravel	22	246
Gravel	24	270
Clay	3	273
Clay and gravel	10	283
Gravel	11	294
Conglomerate	3	297
Gravel and clay	3	300
Gravel	32	332
Clay	3	335
Clay and gravel	5	340
Gravel	12	352
Clay and gravel	38	390
Gravel	2	392
Clay	5	397
Gravel	66	463
Clay	4	467
(B-9-2)11cda-1. Log by Robinson Drilling Co. Alt. 4,245 ft.		
Clay and silt	6	6
Clay and gravel	14	20
Sand	35	55
Not logged	15	70
Clay, blue	55	125
Clay, gray	20	145
Clay, blue	50	195
Clay, gray	85	280
Sand	20	300
Clay, black	70	370
Sand and gray clay	10	380
Clay, greenish-gray	16	396
Sand	4	400
Gravel	5	405
Gravel and clay	15	420
Clay, blue	138	558
Gravel	6	564
Sand and clay	31	595
Clay	31	626
(B-9-2)22cbb-1. Log by driller (not known). Alt. 4,216 ft.		
Clay, gray	4	4
Clay, silt, and sand, gray	3	7
Clay, gray	6	13
Clay, blue, with gas pockets	98	111
Sand, blue	2	113
Clay and sand, blue	124	237
Clay and sand, black, seeps water	22	259
Sand, gravel, silt, and clay, gray	13	272
Sand and clay, blue	22	294
Sand, heaving	6	300
Clay	19	319
Sand, heaving, and blue clay	26	345
Sand, heaving, and gray clay	96	441
Clay, hard	25	466
Sand, heaving, gray	6	472
Clay, brown	4	476
Sand	4	480
Sand and clay, hard	81	561
Clay, green; water at 564 ft	22	583
Clay, brown and red	19	602
Clay, blue	43	645
Sand, gravel, and clay	37	682
Driller's note: Water in thin gravel layers between hard clay from 453 to 653 ft.		
(B-9-2)26aaa-1. Log by Robinson Drilling Co. Alt. 4,330 ft.		
Topsoil and gravel	1	1
Gravel	9	10
Sand and gravel	10	20
Gravel, coarse, and cobbles	10	30
Gravel and cobbles	17	47
Gravel and sand, coarse, brown	8	55
Quicksand, gray	5	60
Clay, gray	115	175
Gravel and sand, fine	5	180
Conglomerate, yellow	20	200
Clay, blue	7	207
Gravel and sand, fine	38	245
Gravel and sand	6	251
Sand, fine	11	262
Conglomerate, greenish	3	265
Sand and gravel	22	287
Sand and gravel with show of yellow clay	13	300
Clay and gravel	15	315
Clay, yellow, sticky	20	335
Conglomerate	12	347
Gravel and sand; water	5	352
Conglomerate, sticky	28	380
Clay and gravel	15	395
Gravel; water	8	403
Clay	9	412
(B-9-4)35bab-1. Log by Wesley Stoddard. Alt. 4,207 ft.		
Silt, river fill	30	30
Clay, blue	20	50
Organic matter, black; some gas	3	53
Clay, blue	49	102
Clay, hard, or shale streaks	7	109
Clay, blue	15	124
Sand; gas	7	131
Clay, blue	109	240
Sand, black; organic matter	10	250
Sand, hard	1	251
Quicksand, fine	14	265
Clay	26	291
Shale	31	322
Shale; gas	8	330
Shale	10	340
Sand, black; organic matter and gas	10	350
Shale	7	357
Sand; gas	4	361
Shale	22	383
Shale, blue; streaked with lime	131	514
Shale, brown	6	520
Sand, brown, and organic material; artesian water and gas	8	528
Shale	22	550
Sand, fine	5	555
Shale	67	622
Shale; clay and sand streaks	129	751
Shale	11	762
Sand, fine	10	772
Sand and shale	22	794
Shale and hard lime; slow drilling	22	816
Shale	12	828
Sand, fine, hard	6	834
Shale	4	838
Lime and shale, hard	8	846
Clay and sand streaks	14	860

Table 4.--Selected drillers' logs of wells--Continued

Material	Thickness	Depth
(B-9-4)35bab-1 - Continued		
Shale and clay streaks	140	1,000
Clay and streaks of sand; artesian water and gas	28	1,028
(B-10-2)4dda-1. Log by T. J. Burkhart. Alt. 4,525 ft.		
Gravel, boulders, and silt	44	44
Gravel and cobbles	4	48
Boulders	4	52
Gravel and boulders	41	93
Gravel and cobbles	24	117
Gravel and boulders	4	121
Gravel and cobbles	10	131
Boulders	3	134
Gravel and cobbles	30	164
Gravel and boulders	58	222
Gravel and cobbles	20	242
Gravel and brown clay	5	247
Gravel and cobbles	14	261
Boulders	5	266
Gravel	70	336
Clay, brown	2	338
Gravel	5	343
Clay and gravel	11	354
Gravel	12	366
(B-10-2)17bcb-1. Log by J. V. Stoddard. Alt. 4,256 ft.		
Clay	6	6
Silt and sand	19	25
Clay	53	78
Sand	6	84
Clay	147	231
Sand	5	236
Clay	96	332
Sand	6	338
Clay	51	389
Sand	19	408
Clay	80	488
Sand	8	496
Clay	8	504
Sand	21	525
Clay	84	609
(B-10-2)23bca-1. Log by T. J. Burkhart. Alt. 4,330 ft.		
Topsoil, gravelly	2	2
Gravel and cobbles	15	17
Clay and gravel	21	38
Gravel and cobbles	27	65
Gravel	2	67
Gravel and cobbles	5	72
(B-10-2)36bbc-3. Log by Robinson Drilling Co. Alt. 4,282 ft.		
Topsoil	3	3
Gravel and boulders	17	20
Gravel with some clay; water	25	45
Gravel, sand, and some clay	15	60
Gravel and sand	3	63
Quicksand	3	66
(B-10-3)1dba-1. Log by Evans. Alt. 4,269 ft.		
Clay	55	55
Silt and sand	15	70
Clay	110	180
Gravel, fine	10	190
Gravel; water	30	220
(B-10-3)4ddd-1. Log by R. H. Fuller. Alt. 4,257 ft.		
Clay, white	20	20
Sand	10	30
Clay, white	10	40
Clay, red	10	50
Sand, black	10	60
Clay, white	10	70
Sand	10	80
Sand, black	30	110
Sand, red	10	120
Clay, white	10	130
Sand, hard	10	140
Hardpan	2	142
Sand	18	160
Sand, black	10	170
Sand, red	10	180
Sand, lake-bottom	10	190
Sand, red	10	200
Sand, lake-bottom	10	210
Quicksand	10	220
Sand, red	10	230
Quicksand	10	240
Clay, blue	10	250
Quicksand	20	270
Sand, red	10	280
Quicksand; small flow of salty water	10	290
Sand, red	30	320
(B-10-3)4ddd-1 - Continued		
Quicksand	25	345
Sand, red	10	355
Quicksand	10	365
Quicksand; salty water	10	375
Sand, lake-bottom	20	395
Clay loam	10	405
Quicksand; salty water	10	415
Clay loam	20	435
Sand, lake-bottom	10	445
Quicksand; salty water	10	455
Clay	20	475
Quicksand; salty water	10	485
Sand, hard	10	495
Quicksand	15	510
(B-10-4)6cdd-1. Log by L. H. Stoddard. Alt. 4,248 ft.		
Soil	3	3
Hardpan	13	16
Sand	2	18
Clay	75	93
Gravel	11	104
(B-10-5)1aab-1. Log by Church Drilling Co. Alt. 4,550 ft.		
Clay	25	25
Clay and some rocks	59	84
Conglomerate	19	103
Clay	21	124
Conglomerate	41	165
Gravel, loose; dry	30	195
Conglomerate	100	295
Limestone, broken; seep of water	5	300
Limestone, solid	20	320
Fracture in limestone; water	5	325
(B-11-2)6ccc-1. Log by T. J. Burkhart. Alt. 4,322 ft.		
Soil, sandy, light color	2	2
Clay and sand, hard, light color	3	5
Clay and sand, soft, light color	11	16
Clay, medium hardness, light color	21	37
Silt and sand, soft, dark color	29	66
Clay, medium hardness, light blue	40	106
Silt and sand, soft, dark color	2	108
Clay, medium hardness, light blue	7	115
Clay and sand, medium hardness, light blue	21	136
Clay, medium hardness, light blue	8	144
Clay, medium hardness, dark blue	22	166
Sand, fine, dark blue	12	178
(B-11-2)28abc-1. Log by Eldon Comer. Alt. 4,550 ft.		
Gravel	38	38
Boulders	17	55
Gravel	9	64
Clay and gravel	5	69
Boulders	71	140
Clay	8	148
Boulders, cement	47	195
Boulders	25	220
Gravel; dry	50	270
Gravel; water	2	272
Clay, sandy	35	307
Rock	8	315
(B-11-2)31bab-1. Log by Petersen and Sons. Alt. 4,255 ft.		
Topsoil	2	2
Clay, sandy, yellow	22	24
Sand and pea gravel	7	31
Clay, yellow	3	34
Clay, blue	37	71
Clay, sandy, blue	16	87
Clay, black	21	108
Clay, blue and gray	53	161
Gravel and quicksand	15	176
Clay, blue	13	189
Clay, blue, and sand	18	207
Sand; water (10 gpm)	3	210
Clay, blue, and sand	13	223
Quicksand and blue clay	34	257
Clay, blue, and sand	57	314
Sand, coarse	1	315
Clay, blue	21	336
Clay, sandy, blue	28	364
Sand; some water	1	365
Clay, sandy, blue	37	402
Gravel; water	5	407
Quicksand	5	412
Clay, hard, blue	6	418
Clay, gray	14	432
Clay, blue	19	451
Quicksand	5	456
Clay, blue	5	461
(B-11-3)2bab-1. Log by J. V. Stoddard. Alt. 4,326 ft.		
Clay	14	14
Clay and streaks of sand	17	31
Sand; water	10	41
Clay	23	64
(B-11-3)10abb-4. Log by M. L. Davis. Alt. 4,318 ft.		
Clay	18	18
Sand; little water	6	24
Clay, sandy	7	31
Clay, blue	94	125
Boulders and sand	10	135
Sand	9	144
Clay, blue	41	185
Gumbo, heavy, blue	35	220
Shale, blue	11	231
Clay, yellow	20	251
Sand; water	4	255
Clay	3	258
Gravel and sand	4	262
Clay, blue	33	295
Boulders, hard	15	310
Clay, yellow	27	337
Clay, white	11	348
Clay and a little sand	12	360
Clay, yellow	21	381
Sand, fine	5	386
Clay, yellow	14	400
Sand, fine	5	405
Clay, white	29	434
Shale, hard	2	436
Shale	2	438
Rock, hard	4	442
Sand and gravel	15	457
Sand; water	5	462
Clay	54	516
Sand	16	532
Shale	43	575
Sandstone	20	595
Clay	25	620
Sand	5	625
Boulders, hard	15	640
Shale	20	660
Sandstone	45	705
(B-11-3)17dad-2. Log by R. H. Fuller. Alt. 4,282 ft.		
Clay, blue	30	30
Sand, some quicksand	40	70
Clay, white	20	90
Sand	70	160
Clay, black	20	180
Sand	40	220
Sand, hard	10	230
Quicksand	20	250
Clay, black	45	295
Sand	15	310
Hardpan	5	315
Sand	20	335
Sand, hard; dry	20	355
Quicksand; some water	30	385
Sand, black	15	400
Quicksand	10	410
(B-11-3)18aba-1. Log by M. L. Davis. Alt. 4,291 ft.		
Clay	38	38
Sand; water	2	40
Clay, blue; water, shut off	60	100
Clay	75	175
Sand, fine; water, shut off	10	185
Clay, white	65	250
Clay, red	20	270
Clay, white	22	292
Hardpan	6	298
Sand and small gravel; water	10	308
(B-11-4)3ccc-1. Log by T. J. Burkhart. Alt. 4,419 ft.		
Soil, sandy	4	4
Clay and gravel, light color	2	6
Gravel and cobbles, light color	11	17
Clay and gravel, light color	31	48
Gravel, boulders, and clay, light color	17	65
Clay and gravel, light color	64	129
Gravel, dark color	11	140
Gravel and some clay, dark color	157	297
Clay and some gravel, light color	13	310
Gravel and clay, light color	71	381
Clay and some gravel, light color	14	395
Gravel, light color	13	408
Gravel and clay, light color	22	430
(B-11-4)12aba-1. Log by R. H. Fuller. Alt. 4,314 ft.		
Clay, white	30	30

Table 4.--Selected drillers' logs of wells--Continued

Material	Thickness	Depth
(B-11-4)12aba-1 - Continued		
Sand	60	90
Quicksand	10	100
Clay, black	25	125
Clay, white	35	160
Sand	40	200
Quicksand	10	210
Clay	20	230
Gravel	10	240
(B-11-4)16add-2. Log by T. J. Burkhart. Alt. 4,338 ft.		
Gravel, clay, and boulders	65	65
Sand and gravel; water	5	70
Gravel and clay	5	75
(B-11-4)23bcc-1. Log by J. V. Stoddard. Alt. 4,267 ft.		
Topsoil	2	2
Clay and hardpan	50	52
Clay	153	205
Hardpan	3	208
Clay	77	285
Sand	5	290
Clay	55	345
Gravel	5	350
Clay	40	390
Gravel	3	393
(B-11-4)28dda-1. Log by M. L. Davis. Alt. 4,278 ft.		
Clay	6	6
Gravel	14	20
Rock	10	30
Rock, solid	8	38
Gravel; water	3	41
(B-12-2)9cad-1. Log by M. L. Davis. Alt. 4,557 ft.		
Clay	50	50
Soapstone	30	80
Hardpan	8	88
Gravel and sand; water	7	95
(B-12-2)11bdd-1. Log by M. L. Davis. Alt. 4,755 ft.		
Gravel	10	10
Clay	20	30
Hardpan	7	37
Gravel; water	4	41
(B-12-2)17cac-1. Log by Cache Valley Drilling Co. Alt. 4,390 ft.		
Topsoil	1	1
Clay, brown	14	15
Clay, gray	60	75
Clay, sandy, gray	21	96
Gravel; trace of water	1	97
Clay, gray	4	101
Gravel	6	107
Clay, sandy, brown	72	179
Gravel; water (water level at 50 ft)	2	181
Clay, gray	17	198
(B-12-2)19aab-1. Log by Robert Johnson. Alt. 4,242 ft.		
Sand	24	24
Gravel	3	27
Clay	22	49
Sand	6	55
Clay	225	280
(B-12-3)11daa-2. Log by M. L. Davis. Alt. 4,356 ft.		
Clay	22	22
Sand; water, shut off	2	24
Clay, white	20	44
Clay, sandy	12	56
Hardpan	2	58
Gravel; water	10	68
(B-12-3)15cdc-1. Log by T. J. Burkhart. Alt. 4,473 ft.		
Boulders and clay	7	7
Clay and gravel	11	18
Clay, sandy; seep of water at 90 ft	72	90
Clay	15	105
Clay and gravel	13	118
Boulders	67	185
Rock, likely shale (limestone?)	10	195
Sandstone; water at 204 ft	28	223
Rock, likely shale, hard (limestone?)	54	277
(B-12-3)26adb-1. Log by Robert Johnson. Alt. 4,342 ft.		
Topsoil	2	2
Clay	22	24
Sand	30	54
Clay	109	163
(B-12-3)26adb-1 - Continued		
Sand	8	171
Clay	23	194
Sand	6	200
Clay	65	265
Sand	7	272
Clay	18	290
(B-12-4)22aac-1. Log by Robinson Drilling Co. Alt. 4,529 ft.		
Topsoil	3	3
Clay, yellow	20	23
Clay and gravel	63	86
Clay, yellow	66	152
Gravel and clay	4	156
Gravel and brown clay	31	187
Gravel and clay	47	234
Gravel; water	18	252
Gravel and clay	45	297
Gravel and boulders	10	307
Limestone, fractured; water	373	680
(B-12-4)27bdb-1. Log by A. P. Lloyd. Alt. 4,496 ft.		
Clay and hardpan	10	10
Clay, silt, and gravel	224	234
Gravel; water (water level at 190 ft)	4	238
Gravel and clay	156	394
Sand, gravel, and white clay	33	427
Limestone and some clay	73	500
(B-12-4)27dbd-1. Log by T. J. Burkhart. Alt. 4,420 ft.		
Soil	1	1
Clay, hard, light color	2	3
Clay, light color	32	35
Clay, sandy, yellow	11	46
Clay, hard, light color	19	65
Clay, brown	34	99
Boulders	16	115
Gravel and clay, brown	17	132
Boulders	3	135
Sand, gravel, and clay, brown	8	143
Gravel and clay, sandy, brown	42	185
Gravel and clay, brown	16	201
Sand, gravel, and clay, brown	4	205
Gravel and clay, brown	18	223
Gravel and clay, sandy, brown	35	258
Boulders	3	261
Gravel and clay, sandy, brown	57	318
Clay, light brown	6	324
Gravel and clay, sandy, light brown	19	343
Gravel, cobbles, and clay, light brown	14	357
Gravel and clay, hard, light brown	11	368
Boulders or rock ledge	8	376
Gravel and clay, sandy, light brown	64	440
Gravel and clay, dense, light brown	31	471
Boulders or rock ledge	5	476
Gravel and clay, dense, light brown	2	478
(B-12-4)34bbd-1. Log by T. J. Burkhart. Alt. 4,430 ft.		
Soil	2	2
Clay	126	128
Clay and gravel	34	162
Rock, sandy, likely shale (limestone?)	4	166
Rock, hard, likely shale (limestone?)	59	225
Sandstone, soft	15	240
Sandstone, hard	45	285
Sandstone, soft	18	303
Sandstone, hard	3	306
Driller's note: Water (10 gpm) at 150 ft; casing set on bedrock at 162 ft; water increased 162 to 166 ft (bailed 40 gpm, drawdown 27 ft); water increased 225 to 240 ft (bailed 40 gpm, drawdown 4 ft); water increased 285 to 303 ft (bailed 40 gpm, drawdown 1 ft); test pumped well (475 gpm, drawdown 76 ft).		
(B-12-4)34cbd-1. Log by T. J. Burkhart. Alt. 4,424 ft.		
Soil	2	2
Clay	4	6
Clay and boulders	6	12
Clay, sandy	53	65
Clay, gravel, and boulders	17	82
Clay, sandy, and boulders	52	134
Sand and gravel	22	156
Clay and gravel	25	181
Rock, likely shale (limestone?)	111	292
Driller's note: Water at 156 ft (bailed 20 gpm); water increased 225 to 240 ft (bailed 50 gpm, drawdown 12 ft); water increased 262 to		
(B-12-4)34cbd-1 - Continued		
Driller's note - Continued 292 ft (bailed 50 gpm, drawdown 0 ft); test pumped well (1,100 gpm, drawdown 44 in.).		
(B-12-4)35bbc-1. Log by Robinson Drilling Co. Alt. 4,376 ft.		
Clay and silt	3	3
Clay, yellow	37	40
Clay, brown	18	58
Gravel	2	60
Gravel and clay	8	68
Clay, brown	37	105
Gravel and clay	25	130
Gravel	6	136
Sand, gravel, and clay	28	164
Sand and clay	19	183
Clay, yellow	22	205
Gravel and clay	57	262
Rock	6	268
Gravel and clay	8	276
Rock	2	278
Gravel and clay	3	281
Rock	3	284
Gravel and clay	24	308
Rock	3	311
Gravel and clay	17	328
Rock	10	338
Gravel and clay	22	360
Rock	10	370
Gravel and clay	30	400
Rock	11	411
Gravel and clay	24	435
Clay	5	440
Gravel and clay	10	450
Sand and gravel	10	460
Gravel and clay	7	467
Rock	4	471
Gravel and clay	20	491
Rock	6	497
Gravel and clay	88	585
Gravel, boulders, and clay	10	595
Sand, gravel, and boulders	5	600
Sand, gravel, and clay	15	615
Sand and clay	15	630
Sand, gravel, and clay	7	637
Gravel and clay	29	666
Clay	2	668
(B-13-3)10dcd-1. Log by Gamble Machine Works. Alt. 4,418 ft.		
Clay, yellow, and sand	4	4
Clay, white	3	7
Clay, yellow	38	45
Clay, blue, soft	42	87
Clay, blue, hard	31	118
Gravel, fine; water	12	130
Clay, blue, hard	34	164
Quicksand, blue	10	174
Clay, blue, hard	6	180
Boulder	2	182
Clay, blue, hard	11	193
Gravel, coarse; water	7	200
Clay	2	202
(B-13-3)12cba-1. Log by R. T. Nisch. Alt. 4,550 ft.		
Clay and sand	30	30
Hardpan	10	40
Gravel	60	100
(B-13-3)26ccc-1. Log by Intermountain Drilling Corp. Alt. 4,403 ft.		
Clay, topsoil	6	6
Clay, tan, hard	26	32
Gravel	14	46
Clay, tan	7	53
Clay	16	69
Clay, brown	6	75
Gravel	13	88
Clay, tan	2	90
Gravel	4	94
Clay, tan	6	100
Clay	11	111
Gravel; water	5	116
Clay, tan	2	118
Gravel	13	131
(B-13-3)35dda-1. Log by T. J. Burkhart. Alt. 4,371 ft.		
Soil	2	2
Clay, sandy	3	5
Clay, light color	22	27
Sand, dirty (23 gpm, water level at 19 ft)	2	29
Clay, light color	28	57
Clay, blue	61	118

Table 4.--Selected drillers' logs of wells--Continued

Material	Thickness	Depth
(B-13-3)35dda-1 - Continued		
Clay, gray	25	143
Sand and gravel, dirty (45 gpm, water level at 46 ft.)	9	152
Clay and gravel, brown (16 gpm, water level at 46 ft.)	27	179
Clay, light color	18	197
Gravel (12 gpm, water level at 46 ft.)	2	199
Clay and gravel, light color	6	205
Gravel, dirty (bailed 40 gpm, drawdown 20 ft.)	9	214
Boulders or ledge	5	219
Gravel, coarse, dirty	4	223
Gravel, clean	10	233
Clay and gravel (pumped 305 gpm, drawdown 41 ft, water level at 44 ft.)	4	237
(B-13-4)20aba-1. Log by T. J. Burkhart. Alt. 5,093 ft.		
Soil, dark color	11	11
Clay and gravel, brown	12	23
Clay, brown, dense	19	42
Sand and gravel; water	6	48
Clay and gravel, light color	18	66
Clay, light color	4	70
Clay, sandy, yellow	35	105
(B-13-4)32ccc-1. Log by T. J. Burkhart. Alt. 5,100 ft.		
Soil	2	2
Clay with some gravel, light brown	68	70
Clay and gravel, dark gray; seep of water at 90 ft.	25	95
Clay and gravel, light brown; seep of water at 148 ft.	59	154
Clay and gravel, brown	33	187
(B-13-4)32ccc-1 - Continued		
Clay, gray, dense	8	195
Clay and gravel, light brown	149	344
Shale, broken, light color	48	392
Shale, broken, dark	28	420
Shale, broken, oxford gray	32	452
Gravel, cemented, brown	88	540
Shale, oxford gray	87	627
Sand, hard, gray	43	670
Shale, hard, dark color	12	682
Lime, hard, gray	16	698
Lime, hard, oxford gray; seep of water at 699 ft. and at 750 ft.	169	867
(B-14-3)4cda-1. Log by R. J. Howell. Alt. 4,371 ft.		
Topsoil	2	2
Clay, gray	16	18
Mud, black	30	48
Gravel; water	7	55
Clay, gray	13	68
Mud, black	6	74
Sand and gravel; flow of water	21	95
Clay, yellow	10	105
(B-14-3)6cca-1. Log by M. L. Davis. Alt. 4,490 ft.		
Clay	20	20
Gravel, small	20	40
Clay, red	15	55
Rock, hard	5	60
Clay, white	20	80
Gravel with blue clay	20	100
Boulders, small	10	110
Clay, white	10	120
Rock, brown	5	125
Gravel; water	10	135
(B-14-3)17cdc-1. Log by C. H. Thomas. Alt. 4,385 ft.		
Clay, yellow	10	10
Clay, yellow, and quicksand	14	24
Clay, yellow	17	41
Mud, blue	70	111
Clay, yellow	3	114
Boulders, red granite	7	121
Clay, yellow, and quicksand	26	147
Gravel, coarse; small amount of hard water	5	152
Boulders, gray granite	14	166
Clay, yellow	2	168
Limerock, hard	10	178
Clay, red	21	199
Clay, yellow	11	210
Boulders, red granite	14	224
Clay, yellow	17	241
Clay, yellow, and boulders	9	250
Clay, yellow	3	253
Clay, yellow, and boulders	2	255
Clay, yellow	19	274
Clay, red, and boulders	17	291
Sand and yellow clay; water	8	299
Gravel and boulders; water	19	318
Clay, yellow	5	323
(B-15-3)31ccc-1. Log by M. L. Davis. Alt. 4,440 ft.		
Soil	10	10
Clay	10	20
Clay, white	60	80
Hardpan	5	85
Gravel and clay	9	94
Rock, hard	6	100
Gravel; water	30	130
Limerock	20	150
Gravel; water	8	158
Rock	2	160

Table 5.--Chemical analyses of water from selected wells and springs

Sodium and potassium: An entry of C in potassium column indicates that sodium and potassium are calculated and reported as sodium.
Nitrate: An entry of c after nitrate value indicates analysis of nitrate plus nitrite, reported as nitrate.
Agency making analysis: CO, commercial laboratory; GS, U.S. Geological Survey (samples collected after January 1, 1971, were analyzed by automated techniques); SH, Utah State Department of Health; SU, Utah State University.

Location	Date of collection	Depth of well or sampling depth, s (feet)	Temperature (°C)	Milligrams per liter: Silica (SiO_2)	Iron (dissolved) (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$	Dissolved solids: Residue on evaporation	Dissolved solids: Sum	Specific conductance (micromhos/cm at 25°C)	pH	Sodium-adsorption ratio	Agency making analysis
WELLS																								
(B-8-2)																								
1bbb-1	1- -41	270	-	11	0.1	49	19	27	C	213	0	40	28	0.2	7.5	-	200	26	285	287	-	7.6	0.8	SH
2bcb-1	9- 2-70	128	13.5	1.2	-	52	21	110	1.8	225	0	38	160	.5	3.2	0.06	220	32	519	501	945	7.8	3.3	GS
10daa-1	8-10-63	148	-	-	-	35	27	350	3	437	0	53	440	-	-	-	200	0	1,140	-	2,140	-	10	SU
21aab-1	9-13-65	567	-	53	.01	200	72	340	65	681	1	.5	730	.2	.5	.20	780	220	1,980	1,800	3,120	7.2	5.2	SH
23bba-1	5-17-71	133	14.5	12	.01	30	7.8	7.4	.2	125	0	21	5.7	.2	3.7c	.00	110	5	-	150	242	7.2	.3	GS
(B-9-1)																								
14cdd-1	6-17-65	213	-	-	-	-	-	4.5	-	-	-	9.0	-	.2	-	-	-	-	-	-	235	7.5	-	SH
18cbc-1	6-21-65	205	-	-	-	-	-	9.2	-	-	-	11	-	.1	-	-	-	-	-	-	445	7.6	-	SH
19bcc-1	6-21-65	412	-	-	-	-	-	9.2	-	-	-	10	-	.1	-	-	-	-	-	-	450	7.5	-	SH
	8-28-69		-	12	.00	50	21	10	1.0	242	1	16	20	.2	4.5	.07	210	13	256	255	490	7.7	.3	SH
26bbb-1	6-17-65	505	-	-	-	-	-	5.0	-	-	-	7.0	-	.2	-	-	-	-	-	-	240	7.3	-	SH
27bcd-1	7-21-64	467	-	14	.01	24	10	7.2	1.8	117	2	8.0	12	.2	3.4	.00	100	5	136	140	265	8.6	.3	SH
	8-28-69		-	11	.00	24	11	6.0	1.0	124	0	8.0	17	.2	2.8	.08	110	4	178	142	245	7.5	.3	SH
27bdc-1	7-21-64	310	-	12	.01	26	10	5.7	1.8	117	2	10	12	.1	.3	.04	110	10	129	138	220	8.5	.2	SH
(B-9-2)																								
1dcc-1	4-26-71	181	-	20	.00	33	20	40	10	275	1	3.0	15	.2	.1	.17	160	0	262	278	495	7.8	1.4	SH
	7-13-71		-	21	.00	33	21	28	10	268	1	2.0	15	.2	.4	.16	170	0	262	264	465	8.0	.9	SH
12cad-1	8-28-69	200	-	12	.00	62	21	17	2.0	281	0	19	21	.2	4.8	.16	240	10	320	297	525	7.5	.5	SH
14dac-1	7- 1-71	62	14.0	14	.01	68	23	11	4.4	270	0	19	18	.1	8.9c	.07	260	43	-	299	496	7.7	.3	GS
15daa-1	5-17-71	465	16.5	19	.28	2.0	1.2	150	1.8	351	22	5.5	16	.7	.1c	.00	10	0	-	395	593	8.7	21	GS
34adc-1	5-17-71	60	13.5	16	.01	28	14	91	6.6	235	0	37	72	.3	.2c	.07	130	0	-	381	656	8.1	3.5	GS
(B-9-3)																								
2add-1	8- 6-71	11	14.5	43	.06	45	50	320	.4	556	0	140	260	.3	10c	.41	320	0	-	1,140	2,000	8.1	7.8	GS
27cba-1	8-21-53	502	-	-	-	56	62	1,000	110	1,620	0	14	1,100	-	-	-	400	0	3,350	-	5,300	-	22	SU
(B-10-3)																								
1dba-1	8- 9-71	220	-	39	.28	26	74	320	54	856	0	130	170	.3	29c	.60	370	0	-	1,270	2,090	8.1	7.2	GS
4ddd-1	9-25-70	510	25.5	80	-	94	45	3,900	160	452	0	170	6,200	1.2	.1	.80	420	49	-	10,800	17,100	7.7	82	GS
13adb-1	8- 9-71	8	14.5	52	.06	28	74	430	78	1,020	0	260	140	.6	43c	.83	370	0	-	1,610	2,490	8.1	9.7	GS
(B-10-4)																								
3bb -1	2-28-30	3,519s	-	-	-	2,200	780	44,000	-	260	-	2,400	69,000	-	-	-	8,700	8,500	109,000	122,000	-	-	210	GS
	11-23-30	3,667s	-	-	-	2,200	790	44,000	-	270	-	2,300	73,000	-	-	-	8,800	8,600	109,000	122,000	-	-	200	GS
	3-18-31	3,981s	-	-	-	1,800	670	35,000	-	490	-	1,500	57,000	-	-	-	7,300	6,900	97,600	95,700	-	-	180	GS
(B-11-2)																								
6ccc-1	1-16-64	178	-	50	.25	11	29	1,000	50	1,940	11	1.5	560	6.8	1.4	2.5	140	0	2,780	2,680	4,120	8.0	36	SH
8aaa-1	9- 9-69	158	-	9.4	-	45	12	11	C	185	0	16	11	-	2.0	-	160	10	197	197	337	7.9	.4	GS
	8- 4-70		-	-	-	36	17	9.4	C	181	0	16	11	-	-	-	160	12	183	178	338	8.0	.3	GS
31bab-1	6-24-64	-	-	-	-	57	25	1,100	89	299	3	21	2,000	-	1.0	-	250	0	3,750	-	5,710	8.2	31	SH
	6-24-64	210s	-	-	-	86	26	130	2.2	265	1	62	55	-	9.3	-	320	100	596	-	770	7.6	3.2	SH
	6-30-64	461	-	-	.05	1,200	-	16,000	730	-	-	320	24,000	-	.2	-	3,000	-	42,400	-	80,000	7.4	126	SH
	8- 4-64		-	-	.03	-	-	-	-	-	-	330	24,000	-	-	-	-	-	-	-	60,000	7.1	-	SH
(B-11-3)																								
17dba-1	5-13-71	335	14.0	61	.02	52	19	400	9.7	166	0	48	670	.6	.1c	.00	210	72	-	1,340	2,310	8.3	12	GS
20daa-2	5-13-71	11	-	41	.02	67	67	590	3.4	657	0	150	750	.7	8.4c	.50	440	0	-	2,000	3,320	8.0	12	GS
27baa-1	8- 9-71	475	14.0	56	.03	9.7	4.5	830	30	503	0	61	970	.8	4.9c	.58	43	0	-	2,220	3,940	8.2	55	GS
(B-11-4)																								
2acd-2	2- 3-54	185	-	18	.21	83	21	130	C	235	-	71	210	.0	6.3	-	290	100	716	656	-	7.7	3.3	SH
3ccc-1	9- 9-69	430	-	20	-	87	49	270	C	250	0	42	540	-	2.8	-	420	210	1,180	1,130	2,000	8.1	5.8	GS
	8- 3-70		-	-	-	89	48	220	C	246	0	61	450	-	-	-	420	220	1,020	993	1,880	8.1	4.7	GS
	8- 6-71		-	-	-	85	46	250	7.2	230	0	48	460	-	-	-	400	210	-	-	2,040	7.9	5.4	GS
4ddd-1	12-10-53	166	-	42	-	130	57	170	C	255	0	280	370	.2	6.0	-	570	360	1,310	1,180	-	7.6	3.1	SH
9dad-1	5-27-45	155	-	40	.0	250	33	89	C	228	0	150	390	.6	6.0	-	750	560	1,360	1,070	-	7.5	1.4	SH
	8-22-50		-	34	.0	150	41	210	C	229	5	300	340	.3	16	-	550	360	1,340	1,210	-	8.4	3.9	SH
11ddc-1	5-14-71	202	15.0	40	.16	430	220	360	11	172	0	1,700	660	.2	16c	.07	2,000	1,800	-	3,520	4,380	7.7	3.5	GS
13aaa-1	5-14.71	275	14.0	48	.01	74	39	120	6.3	227	0	70	270	.4	6.2c	.06	350	160	-	746	1,250	8.1	2.8	GS
22bcc-1	6- 9-66	-	-	37	.01	96	58	140	33	692	1	120	120	1.3	27	.43	480	0	1,030	975	1,660	7.2	2.8	SH
23bcc-1	9-25-70	393	-	70	-	68	33	130	9.4	229	0	110	200	.7	.4	.15	300	120	743	740	1,230	7.5	3.2	GS
(B-12-2)																								
18bcb-1	7-14-71	14	9.5	51	.00	54	95	100	42	504	0	130	120	.3	42c	.24	530	110	-	882	1,480	8.1	1.9	GS
19aab-1	5-13-71	280	10.0	44	4.4	87	43	310	9.0	270	0	350	320	.5	.1c	.06	390	170	-	1,300	2,100	7.8	6.8	GS
(B-12-3)																								
15cdc-1	7-20-71	277	-	23	.12	31	9.9	310	28	399	0	83	270	.3	7.5c	.31	120	0	-	960	1,660	8.0	12	GS
24daa-1	8-10-71	35	11.0	45	.06	110	91	130	31	607	0	130	160	.2	44c	.31	650	150	-	1,040	1,650	7.5	2.2	GS
31ccd-1	2- 3-54	262	-	18	.09	110	30	99	C	211	-	100	250	.0	6.8	-	400	220	836	718	-	-	2.2	SH
(B-12-4)																								
22aac-1	7-20-71	680	-	23	.05	78	35	110	3.6	209	0	52	240	.1	8.0c	.06	340	170	-	653	1,120	8.0	2.6	GS
27bdb-1	8- 9-71	500	-	22	.08	90	37	140	2.7	243	0	40	300	.1	7.1c	.06	380	180	-	759	1,380	7.8	3.1	GS
27dbd-1	9- 9-69	478	-	26	-	83	44	150	C	252	0	56	310	-	5.2	-	390	180	854	792	1,420	7.9	3.2	GS
	8- 3-70		-	-	-	92	42	160	C	245	0	97	310	-	-	-	400	200	798	817	1,450	8.0	3.4	GS
	8- 6-71		-	-	-	87	42	140	3.6	240	0	61	330	-	-	-	390	190	-	-	1,520	7.9	3.1	GS
34bbd-1	9- 9-69	306	-	22	-	89	39	170	C	250	0	51	340	-	5.8	-	380	180	870	836	1,470	7.9	3.7	GS
	8- 3-70		-	-	-	70	55	150	C	250	0	52	330	-	-	-	400	200	988	779	1,480	7.2	3.2	GS
	8- 6-71		-	-	-	91	42	150	4.1	248	0	62	350	-	-	-	400	200	-	-	1,560	7.9	3.3	GS
34cbd-1	9- 9-69	292	-	22	-	93	42	150	C	244	0	63	320	-	7.2	-	410	210	850	813	1,450	7.9	3.2	GS
	8- 3-70		-	-	-	63	59	140	C	240	0	64	320	-	-	-	400	200	874	765	1,450	7.3	3.1	GS
	8- 6-71		-	-	-	94	44	140	4.1	220	0	71	330	-	-	-	420	240	-	-	1,530	7.7	3.0	GS
35bbc-1	8- 3-70	668	-	21	-	71	35	170	3.7	255	0	33	320	.3	4.4	.00	320	110	824	775	1,420	8.0	4.1	GS
(B-13-2)																								
17bbc-1	9- 4-70	52	10.5	60	-	57	54	79	11	392	0	130	45	2.3	4.5	.15	360	43	633	636	970	7.8	1.8	GS
(B-13-3)																								
35bbb-1	8- 4-71	90	-	27	.02	53	12	230	24	650	0	64	76	.3	16c	.77	180	0	-	822	1,340	8.0	7.4	GS

Table 5.--Chemical analyses of water from selected wells and springs--Continued

Location	Date of collection	Depth of well or sampling depth, s (feet)	Temperature (°C)	Milligrams per liter: Silica (SiO_2)	Iron (dissolved) (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$	Dissolved solids: Residue on evaporation	Dissolved solids: Sum	Specific conductance (micromhos/cm at 25°C)	pH	Sodium-adsorption ratio	Agency making analysis
WELLS--Continued																								
(B-13-3)																								
35dda-1	2- -63	130s	13.5	-	-	-	-	700	65	1,240	-	-	510	-	-	-	430	0	-	-	3,020	8.0	15	CO
	2- -63	146s	13.5	-	-	-	-	710	34	1,480	-	-	350	-	-	-	300	0	-	-	2,780	7.8	18	CO
	2- -63	179s	13.5	-	-	-	-	740	28	1,460	-	-	380	-	-	-	330	0	-	-	3,030	7.7	18	CO
	2- -63	200s	13.5	-	-	-	-	730	34	1,170	-	-	440	-	-	-	360	0	-	-	3,780	7.5	19	CO
	2- -63	210s	13.5	-	-	-	-	630	34	770	-	-	380	-	-	-	290	0	-	-	2,190	7.5	16	CO
	2- -63	237	15.5	-	-	-	-	400	40	520	-	-	460	-	-	-	320	0	-	-	1,800	7.5	9.7	CO
	8-25-64	237	-	47	0.18	66	35	440	28	485	2	220	470	0.9	2.2	0.44	310	0	1,560	1,550	2,390	7.8	11	SH
(B-13-4)																								
20bba-1	8-24-71	38	-	27	.06	92	22	79	2.2	253	0	48	67	.0	200c	.06	320	110	-	661	992	8.0	1.9	GS
(B-14-3)																								
5cdc-1	5-12-71	-	11.0	36	.01	39	20	64	4.8	256	0	20	74	.3	1.5c	.03	180	0	-	386	621	8.2	2.1	GS
10bbb-1	5-12-71	43	13.5	17	.24	42	27	17	1.8	262	0	15	24	.3	3.7c	.00	220	1	-	277	455	8.1	.5	GS
17dca-1	6-19-55	174	-	16	-	41	29	252	C	348	-	10	340	.3	.4	-	220	0	855	860	-	7.5	7.4	SH
	3-29-60		-	19	.03	60	19	220	13	338	1	7.6	340	.5	1.3	.16	230	0	853	848	1,510	7.8	6.3	SH
(B-14-4)																								
1dad-1	9- 9-69	212	11.0	21	-	51	23	84	C	368	0	20	54	-	6.8	-	220	0	445	441	725	7.9	2.5	GS
	8- 3-70		11.0	-	-	48	24	100	C	419	0	20	52	-	-	-	220	0	454	451	771	7.4	3.0	GS
SPRINGS																								
(B-8-2)																								
1aac-S1	1- -41	-	-	8.0	0.00	30	13	23	C	122	0	42	21	0.2	9.0	-	130	29	196	206	-	7.6	0.9	SH
(B-9-1)																								
14cdc-S1	6-17-65	-	-	-	-	-	-	5.5	-	-	-	9.0	-	.2	-	-	-	-	-	-	470	7.4	-	SH
	4-22-69		-	4.0	.00	42	28	9.0	1.0	233	1	11	20	.1	3.5	0.13	220	29	224	235	450	8.0	.3	SH
15cdc-S1	6-17-65	-	-	-	-	-	-	11	-	-	-	8.0	-	.1	-	-	-	-	-	-	425	7.5	-	SH
23baa-S1	6-17-65	-	-	-	-	-	-	11	-	-	-	13	-	.1	-	-	-	-	-	-	510	7.5	-	SH
	4-22-69	-	-	4.0	.00	40	27	9.0	2.0	247	2	11	20	.1	2.6	.17	210	8	230	240	450	8.1	.3	SH
23bcb-S1	6-17-65	-	-	-	-	-	-	12	-	-	-	9.0	-	.1	-	-	-	-	-	-	495	7.4	-	SH
	4-22-69	-	-	7.0	.00	42	28	9.0	1.0	247	2	9.0	22	.1	2.7	.15	220	18	262	245	450	8.2	.3	SH
23cda-S1	6-17-65	-	-	-	-	-	-	12	-	-	-	8.0	-	.1	-	-	-	-	-	-	485	7.4	-	SH
	4-22-69	-	-	7.0	.00	44	31	9.0	2.0	245	2	9.0	22	.1	3.0	.12	240	39	236	250	450	8.2	.3	SH
(B-9-2)																								
12daa-S1	5-17-71	-	14.5	13	.26	30	14	26	4.4	191	0	23	19	.3	3.6c	.00	130	0	-	228	360	8.2	1.0	GS
(B-10-2)																								
4cac-S1	5-17-71	-	12.0	11	.14	59	37	350	20	308	0	33	590	.2	8.0c	.15	300	47	-	1,260	2,300	7.7	8.8	GS
22aaa-S1	5-17-71	-	13.5	11	.01	65	46	320	14	288	0	41	560	.2	9.3c	.06	350	120	-	1,210	2,140	8.0	7.4	GS
25acb-S1	5-12-55	-	-	2.4	.18	73	.0	22	C	248	-	7.0	10	2.1	3.1	-	180	0	238	242	-	8.0	.7	SH
	7-22-60	-	-	5.8	.01	56	22	3.7	.8	257	2	15	8.0	.0	1.6	.96	230	20	245	243	463	8.2	.1	SH
	5-17-67	-	10.0	6.2	-	42	33	4.2	.5	260	0	20	15	.2	3.9	.03	240	27	235	253	438	7.9	.1	GS
25bba-S1	2- -41	-	-	2.4	-	49	28	11	C	280	0	18	9.0	.0	-	-	230	8	251	255	-	7.5	.3	SH
(B-10-3)																								
30bbd-S1	10-27-51	-	47.5	54	.02	920	360	11,000	670	528	0	59	21,000	.0	-	4.6	3,800	3,400	-	34,600	48,900	6.4	78	GS
	5-21-52	-	51.0	-	-	-	-	-	-	512	0	-	23,000	-	-	-	-	-	-	-	53,000	6.3	-	GS
	6- 8-54	-	50.0	-	.08	-	-	-	-	-	-	-	22,000	-	-	-	-	-	-	-	54,300	-	-	GS
	4- 5-58	-	47.5	49	-	960	300	13,000	580	330	-	110	22,000	1.9	0	3.7	3,600	3,400	-	37,300	53,900	6.7	94	GS
	5-24-66	-	45.0	41	-	860	350	10,000	680	172	-	170	18,000	1.6	3.3	3.7	3,600	3,400	-	30,500	46,100	7.3	73	GS
	5-17-67	-	47.0	42	.02	660	440	10,000	500	435	-	160	18,000	1.8	2.1	3.3	3,500	3,100	-	29,600	42,500	7.1	75	GS
(B-10-4)																								
6cda-S1	5-14-71	-	15.0	21	.40	82	54	800	20	192	0	160	1,300	.3	7.5c	.24	430	270	-	2,540	4,190	7.8	17	GS
24ccc-S1	5-11-71	-	42.0	28	.80	630	230	13,000	450	400	0	500	22,000	1.5	1.6c	4.5	2,500	2,200	-	37,000	-	7.0	113	GS
(B-11-2)																								
4bbc-S1	2- -41	-	-	30	.00	61	14	26	C	238	0	13	36	.3	7.6	-	210	15	307	305	-	7.6	.8	SH
5abd-S1	8-31-71	-	13.0	13	.06	69	22	11	.9	270	0	21	16	.1	3.5c	.03	260	41	-	289	485	7.8	.3	GS
27daa-S1	2-23-51	-	-	7.4	.00	42	22	1.0	C	103	1	4.6	6.1	.3	2.2	-	200	100	162	138	-	8.0	.0	SH
29dac-S1	9-11-64	-	17.0	-	1.1	76	46	420	31	253	0	57	660	-	-	.2	380	170	1,920	1,550	-	7.5	9.4	SH
	5-17-71	-	16.5	14	.01	70	32	310	15	293	0	45	530	.2	6.2c	.08	310	66	-	1,170	2,000	7.9	7.7	GS
29dad-S1	10-27-51	-	55.5	32	-	830	230	15,000	790	479	-	480	26,000	.0	-	-	3,000	2,600	-	43,500	58,600	-	120	GS
	9-11-64	-	54.5	-	1.9	890	200	16,000	780	170	0	450	24,000	-	-	4.3	3,000	2,900	45,100	43,200	-	7.0	130	SH
	11- 2-66	-	53.0	27	.11	810	190	14,000	670	382	-	460	23,000	2.0	.9	3.2	2,800	2,500	-	39,700	58,100	7.3	110	GS
(B-11-3)																								
6dcc-S1	6-25-71	-	19.5	20	.07	52	21	660	29	350	0	67	960	.2	5.8c	.38	220	0	-	1,990	3,670	8.1	20	GS
(B-11-4)																								
34dcc-S1	5-14-71	-	18.5	37	.01	130	74	1,700	67	329	0	250	2,800	.5	8.4c	.84	630	360	-	5,230	8,840	7.8	30	GS
(B-12-2)																								
11dcb-S1	8-27-71	-	-	54	.20	98	27	46	5.0	321	0	41	81	.5	7.8c	.07	360	93	-	519	816	7.8	1.1	GS
31dda-S1	3- 1-54	-	-	18	.03	62	15	95	C	262	-	65	94	.0	5.9	-	220	2	438	484	-	7.6	2.8	SH
31dda-S2	8-10-71	-	14.0	11	.10	48	22	88	4.4	228	0	24	130	.1	5.3c	.06	210	23	-	445	851	7.8	2.6	GS
(B-12-3)																								
32bcc-S1	3- -41	-	-	16	.00	75	14	38	C	245	0	35	61	.3	8.0	-	240	44	410	368	-	7.1	1.1	SH
	8-18-71	-	-	24	.10	71	12	39	1.8	267	0	35	29	.1	31c	.08	230	8	-	374	642	7.9	1.1	GS
(B-13-2)																								
22dda-S1	6- 5-41	-	-	44	.00	120	37	48	C	298	0	100	140	1.2	7.8	-	450	210	873	645	-	7.7	1.0	SH
	8- 2-60	-	-	27	.10	130	32	38	17	256	1	120	130	1.4	.2	1.1	460	260	747	624	1,170	8.0	.8	SH
27dac-S1	1- 5-68	-	13.0	15	-	48	45	66	7.7	336	0	47	92	.5	.3	.05	300	29	469	487	830	7.6	1.6	GS
27dbd-S1	2- 2-68	-	23.0	17	-	84	43	620	22	320	0	65	1,000	1.0	2.1	.22	390	130	2,120	2,040	3,670	7.6	14	GS
(B-13-3)																								
23acb-S2	9- 8-71	-	51.0	29	.22	220	70	2,900	120	360	0	98	4,800	.4	4.9c	1.1	840	540	-	8,420	15,000	7.2	44	GS
23bad-S1	11- 1-66	-	43.0	26	.05	210	55	2,700	120	366	-	90	4,500	1.5	2.6	.69	760	460	-	7,850	13,600	7.9	43	GS
(B-14-3)																								
27dcb-S1	9-13-71	-	13.0	25	.06	63	34	18	4.0	323	0	25	17	.1	17c	.08	300	32	-	362	599	7.6	.5	GS
(B-14-4)																								
3bbb-S1	5-12-71	-	10.0	19	2.0	76	16	33	1.4	226	0	34	52	.3	7.5c	.00	260	70	-	352	515	7.9	.9	GS
9dcc-S1	5-13-71	-	11.5	14	.01	81	13	24	.9	261	0	19	41	.2	6.6c	.00	260	42	-	328	525	7.9	.7	GS
10cbd-S1	6- -41	-	-	16	.00	81	13	33	C	293	0	14	50	.2	2.2	-	250	14	370	353	-	7.6	.9	SH
(B-15-4)																								
31dbb-S1	5-12-71	-	12.0	26	.01	85	8.9	33	.8	256	0	25	64	.3	13c	.00	250	39	-	382	707	7.9	.9	GS
COMPOSITE SAMPLES																								
Bear River City	6- -41	-	-	1.6	0.00	44	20	7.3	C	220	0	14	11	0.0	-	-	190	12	217	-	-	7.6	0.2	SH
	6- 9-60	-	-	6.7	.01	50	18	3.8	0.7	217	1	13	7.5	.0	0.4	0.06	200	21	207	208	388	8.0	.1	SH
Elwood	8- 2-60	-	-	7.9	.01	54	17	8.2	1.7	227	2	17	11	.1	.3	.98	200	18	234	232	443	8.2	.2	SH

Table 5.--Chemical analyses of water from selected wells and springs--Continued

Location	Date of collection	Depth of well or sampling depth, s (feet)	Temperature (°C)	Milligrams per liter																	Specific conductance (micromhos/cm at 25°C)	pH	Sodium-adsorption ratio	Agency making analysis
				Silica (SiO_2)	Iron (dissolved) (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$	Dissolved solids: Residue on evaporation	Dissolved solids: Sum				
COMPOSITE SAMPLES--Continued																								
Garland	2- -41	-	-	7.4	0.10	54	25	69	C	288	0	32	82	0.1	-	-	240	2	415	-	-	7.3	1.9	SH
Honeyville	1- -41	-	-	3.7	.20	47	22	7.1	C	238	0	14	11	.0	-	-	210	12	233	-	-	7.7	.2	SH
	6- 9-60	-	-	6.9	.01	51	19	4.3	0.7	225	2	16	8.0	.0	0.4	0.00	210	21	219	219	406	8.2	.1	SH
Mantua	9- -41	-	-	6.6	.05	15	4.1	9.8	C	61	0	9.4	12	.2	-	-	54	4	88	-	-	7.5	.6	SH
Plymouth	6-20-41	-	-	31	.00	58	25	9.1	C	295	0	7.9	14	.5	-	-	250	6	305	-	-	7.7	.3	SH
	3-29-60	-	-	20	.01	64	21	5.9	2.3	284	2	10	8.5	.4	2.4	.00	250	13	277	276	467	8.0	.2	SH
Tremonton	8- 2-60	-	-	16	.02	67	25	95	6.7	305	1	40	130	.2	.2	1.1	270	20	554	532	1,010	7.8	2.5	SH
Ukon (Fielding)	2-23-51	-	-	40	.00	85	14	32	C	262	1	33	41	.3	40	-	270	55	394	415	-	7.5	.8	SH
	3-29-60	-	-	35	.01	87	12	33	2.6	278	1	34	47	1.2	7.2	.07	270	38	395	397	659	7.8	.9	SH
Willard	10- -51	-	-	11	.26	33	7.2	8.7	C	106	1	37	3.6	.2	.5	-	110	25	146	154	-	8.0	.4	SH
	4-13-60	-	-	5.9	.02	38	8.3	3.5	.0	134	1	15	8.5	.1	1.0	.00	130	19	148	147	271	8.0	.1	SH