BASIC-DATA REPORT NO. 2

RECORDS OF SELECTED WELLS AND SPRINGS
SELECTED DRILLERS' LOGS OF WELLS
AND CHEMICAL ANALYSES OF GROUND AND SURFACE WATERS
NORTHERN UTAH VALLEY
UTAH COUNTY, UTAH

By

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Prepared by

The United States Geological Survey

in cooperation with

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BASIC-DATA REPORTS: This is the second in a series of basic-data reports prepared cooperatively by the Utah State Engineer and the U.S. Geological Survey. The basic data included in this series of reports generally consist of well records, logs of wells and test holes, and chemical analyses of water samples collected during a detailed investigation or during a basic-records program. Pending publication of an interpretive companion report to be prepared cooperatively by the U.S. Geological Survey and the Utah State Engineer, much use of the basic data can be made by the public, water-well contractors, and consultants in planning water supplies.

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Introduction

This report is intended to serve two purposes: (1) to make available to the public basic ground-water data useful in planning and studying development of water resources and (2) to supplement an interpretive report that will be published later.

Records were collected during the period 1956-59 by the U.S. Geological Survey in cooperation with the Utah State Engineer as a part of the investigation of the ground-water resources of northern Utah Valley in Utah County, Utah. Some earlier data and other information in the tables are from published reports on the ground-water resources of northern Utah Valley. The interpretive material will be published cooperatively by the U.S. Geological Survey and the Utah State Engineer in a companion report by Seymour Subitzky.

This report is most useful in predicting conditions likely to be found in areas that are being considered as well sites. The person considering the new well can spot the proposed site on plate 1 and examine the records of nearby wells as shown on the tables. From tables 1, 2, and 4 he can note the type of material that yields water to wells in the vicinity; from table 2 he can note (1) the depth and diameter of wells in the vicinity and the yield of some of those wells, and (2) the depth to water or the feet of water pressure in the vicinity; from table 3 and plate 1 he may note the location of springs and the conditions related to the occurrence of these springs; and from tables 5 and 6 he may note the chemical quality of the water from wells and from some surface sources, and the uses of these waters. If the reader decides from his examination that conditions are favorable, he may place an application to drill a well with the State Engineer. If the State Engineer believes unappropriated water is available, the application may be approved after minimum statutory requirements have been satisfied.

The report is also useful when planning large-scale developments of water supply. This and other uses of the report will be helped by use of the interpretive report upon its release.

The well numbers used in this report indicate the well location by land subdivision according to a numbering system that was devised cooperatively by the Utah State Engineer and G. H. Taylor of the Geological Survey about 1935. The system is illustrated in figure 1. The complete well number comprises letters and numbers that designate consecutively the quadrant and township (shown together in parentheses by a capital letter designating the quadrant in relation to the base point of the Salt Lake Base and Meridian, and numbers designating the township and range); the number of the section; the quarter section (designated by a letter); the quarter of the quarter section; the quarter of the quarter-quarter section; and, finally, the particular well within the 10-acre tract (designated by a number). By this system the letters A, B, C, and D designate, respectively, the northeast, northwest, southwest, and southeast quadrants of the standard base and meridian system of the General Land Office, and the letters a, b, c, and d designate, respectively, the northeast, northwest, southwest, and southeast quarters of the section, of the quarter section, and of the

quarter-quarter section. Thus, the number (B-2-2)12dcd-2 designates well 2 in the SE$\frac{1}{4}$SW$\frac{1}{4}$SE$\frac{1}{4}$, sec. 12, T. 2 N., R. 2 W., the letter B showing that the township is north of the Salt Lake Base Line and the range is west of the Salt Lake Meridian; and the number (D-3-2)34bca-1 designates well 1 in the NE$\frac{1}{4}$SW$\frac{1}{4}$NW$\frac{1}{4}$ sec. 34, T. 3 S., R. 2 E. In part of the Uinta Basin the land subdivision is based on the Uinta Special Base and Meridian. Coordinates of wells in that area are preceded by the letter U; a typical well number is U(D-1-1)23abd-1.

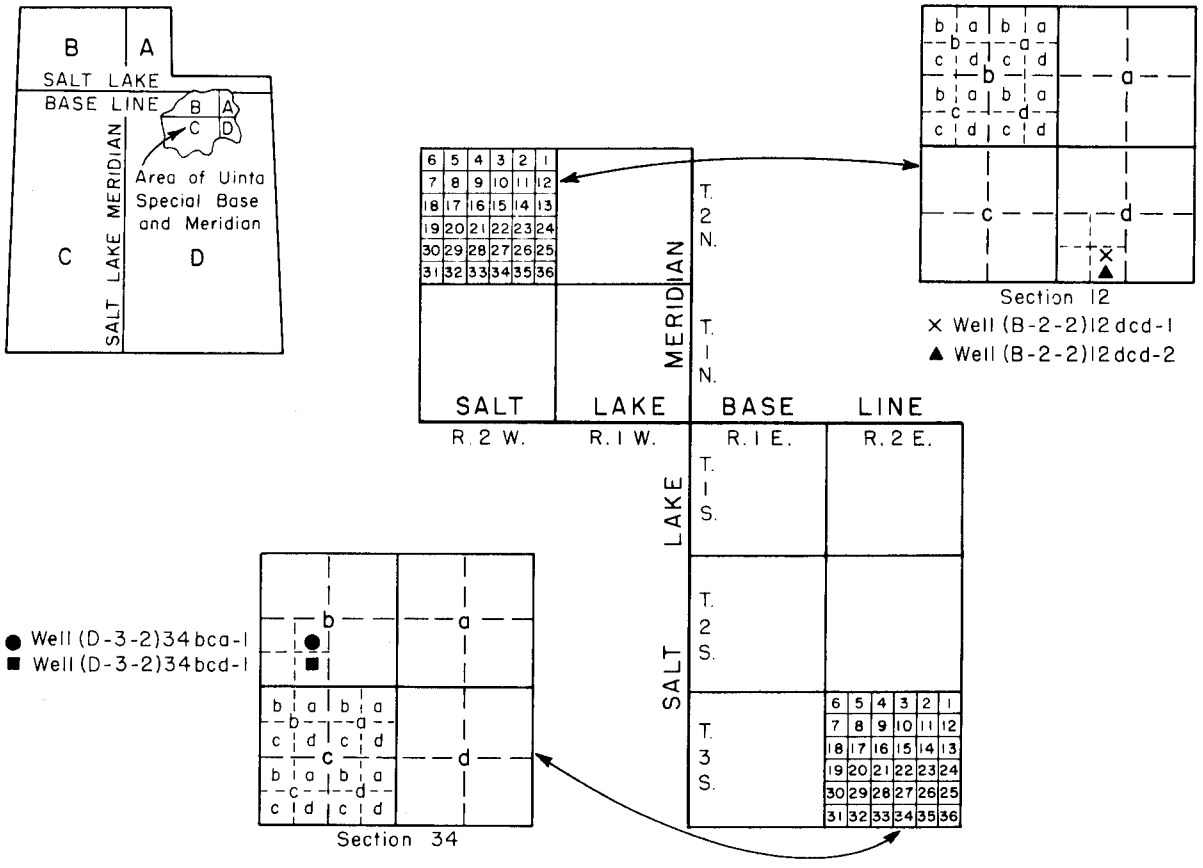

Figure 1. — Well-numbering system used in Utah.

Table 1.--Generalized section and water-bearing properties of late Tertiary and Quaternary formations in northern Utah Valley

Geology adapted from Hunt (Hunt, Varnes, and Thomas, 1953)1/

Geologic age		Unit	Thickness (feet)	Character of material	Water-bearing properties
Quaternary	Recent and Pleistocene(?)	Post-Provo deposits	50 ±	Chiefly unconsolidated alluvial and colluvial deposits of gravel, cobbles, and boulders forming alluvial fans, and stream-channel deposits of gravel along perennial streams.	Fans yield water to water-table wells generally within 25 feet of the land surface. Stream deposits yield water to shallow dug wells on the flood plains of American Fork and Provo Rivers.
		Lake deposits	?	Chiefly uppermost sediments in Utah Lake.	No wells known in the area that obtain water from these deposits
		Unconformity			
	Pleistocene	Lake Bonneville Group: Provo Formation	60-190	An extensive gravel member forms deltas and embankments. A thinner and less extensive sand member forms bars in the deltas. A silt member and a clay member are confined to deep-water deposits.	Water is obtained in the Lake Bonneville Group chiefly from springs rising along the toe of the Highland and Provo benches. Coarse deposits of the group yield water to shallow water-table wells on the Highland and Provo benches. The wells range in depth from 30 to 70 feet below land surface. The fine-grained sediments overlie the pre-Lake Bonneville deposits and serve as a confining cap for the underlying artesian system.
		Unconformity			
		Lake Bonneville Group: Bonneville Formation		Chiefly gravel and sand; predominantly form embankment deposits.	
		Unconformity			
		Lake Bonneville Group: Alpine Formation		Principally silt and clay; some gravel and sand near canyon mouths.	
		Unconformity			
		Pre-Lake Bonneville deposits	500 ±	Consist of at least one glacial moraine of pre-Lake Bonneville age and deposits of several pre-Lake Bonneville lakes. These lake deposits are separated by fanglomerates and other fluviatile beds.	Includes the shallow Pleistocene aquifer whose top is between 50 and 200 feet deep and the deep Pleistocene aquifer whose top in most places is between 150 and 300 feet deep. Most wells tap these aquifers which yield water of good quality of up to 2,300 gpm (gallons per minute) but commonly yield from 100 to 300 gpm.
		Unconformity			
Tertiary		Undifferentiated	?	Pyroclastics, fanglomerates, fresh-water limestones, and tuffs.	Yields are variable. Wells near Lehi range in yield from 60 to 100 gpm; deep wells drilled at the Geneva Steel Plant yield from 2,000 to 3,900 gpm. The quality of water obtained from these deposits is suitable for most uses.

1/ Hunt, C.B., Varnes, H.D., and Thomas, H.E., 1953, Lake Bonneville: Geology of northern Utah Valley, Utah: U.S. Geol. Survey Prof. Paper 257-A, p. 1-99.

Table 2.--Records of selected wells in northern Utah Valley

Well number: See text for description of well-numbering system.
Owner or tenant: DRA, Drought Relief Administration.
Type of well: Dn, driven well; Dr, drilled well; Du, dug well, J, jetted well.
Method of lift: C, centrifugal pump; Cy, cylinder pump; F, flowing well; J, jet pump; T, turbine pump; Ts. submersible turbine pump.
Use of water: D, domestic; I, irrigation; In, industrial; N, none; O, observation; P, public supply; S, stock.
Remarks: Gage, equipped with recording gage; gpm, gallons per minute; "Log" indicates that log of well is given in table 4; "Sample" indicates that chemical analysis is given in table 5; Specific capacity, gpm per foot of drawdown.

Well number	Owner or user	Year drilled	Type of well	Depth of well (feet)	Diameter of well (inches)	Principal water-bearing zone	Method of lift	Use of water	Temperature (°F)	Altitude of land-surface datum (feet)	Water level: Above (+) or below (-) land-surface datum (feet)	Water level: Date of measurement 1958	Remarks
(C-4-1)25cad-1	E. M. Tingey	1944	Dr	130	6	Shallow Pleistocene aquifer	T	D	58	4,607	-74.2	4-2	Yield 75 gpm; sample.
35dcd-1	Wm. Jacobson	1918	Dr	420	4	Deep Pleistocene aquifer	T	D	56	4,621	-	4-2	Well supplies two families; sample.
(C-5-1)1dcd-1	N. W. Slater	1896	Dr	125	2	Shallow Pleistocene aquifer	F	D	54	4,515	+ 4.1	4-2	Yield 10 gpm.
2daa-3	O. J. Roberts	1911	Dr	126	5	Deep Pleistocene aquifer	Cy	D,O	55	4,532	-16.4	4-2	
12aba-1	T. College	1910	J	190	2	do	F	D	55	4,515	+ 4.6	4-2	Yield 7 gpm.
12add-1	E. Peterson	1957	Dr	307	6	do	F	I,O	57	4,517	+14.0	4-2	Sample.
12bab-5	Salt Lake City Corp.	-	J	90	1½	Shallow Pleistocene aquifer	F	N	53	4,490	+13.0	4-2	Sample.
12cab-1	R. M. Allred	-	J	160	2	Deep Pleistocene aquifer	F	D	54	4,497	+21.5	4-2	
12dcc-6	A. Allred	1935	J	104	5	Shallow Pleistocene aquifer	F	I	54	4,505	+21.9	4-2	Yield 225 gpm; log.
12ddb-1	R. Fox	1939	J	96	5	do	F	I	54	4,498	+21.6	4-2	
13aaa-1	B. E. Evans	1898	J	100	2	do	F	I	53	4,503	+20.6	4-2	Yield 30 gpm.
13bcb-1	B. Evans	-	J	250	3	Deep Pleistocene aquifer	F	D	57	4,505	+23.8	4-2	Sample.
13dbb-1	L. Fox	1890	J	100	2	Shallow Pleistocene aquifer	F	I	52	4,497	+21.2	4-3	
13dbb-4	J. Norman	1934	J	157	3	Deep Pleistocene aquifer	F	I	53	4,500	+20.1	4-3	
14bcc-1	J. H. Williamson	-	Dr	195	4	do	Cy	D	59	4,580	-96.9	4-3	Yield 10 gpm; sample.
14caa-1	O. Godfrey	1932	Dr	250	4	do	J	D,S	60	4,536	-40.7	4-3	Sample.
23bda-1	S. J. Shelley	1955	Dr	106	6	do	J	S	70	4,522	-28.2	4-3	Do.
24dcd-1	Valley View Stake Farm, Church of Jesus Christ of Latter Day Saints	-	J	90	2	Shallow Pleistocene aquifer	F	N	73	4,494	+ 6.1	4-3	Do.
24ddb-1	do	1901	J	90	2	do	F	D,I,S	55	4,496	+ 7.2	4-3	Do.
24ddc-1	W. D. Ennis	1900	J	90	2	do	F	I,S	70	4,494	+ 6.1	4-3	
24ddd-1	Valley View Stake Farm, Church of Jesus Christ of Latter Day Saints	1900	J	90	2	do	F	I	55	4,490	+ 5.6	4-3	
25aaa-1	Board of Canal Presidents	1956	J	300	3	Tertiary undifferentiated deposits	F	D,I	56	4,493	+27.6	4-17	
25abc-1	Utah Power & Light Co.	1918	J	90	1½	Shallow Pleistocene aquifer	F	N	62	4,502	+ 5.2	4-17	Sample.
25abc-3	Board of Canal Presidents	-	J	198	2	Deep Pleistocene aquifer	F	I	75	4,503	+ 8.0	4-17	Yield 50 gpm; sample.
25bad-1	do	-	Dr	100	2	Shallow Pleistocene aquifer	F	N	72	4,500	+ 3.4	4-17	Sample.
25cba-1	Sugarhouse Stake Farm, Church of Jesus Christ of Latter Day Saints	-	J	100	2	do	F	S	95	4,503	+ 4.0	4-17	Do.
25cbb-1	do	1951	J	147	3	do	F	D	95	4,503	+ 4.6	4-17	Yield 150 gpm; sample.
25cbd-1	do	-	J	93	4	do	F	I,S	95	4,500	+ 4.0	4-25	Sample.
25ccb-2	Wilford Stake Farm, Church of Jesus Christ of Latter Day Saints	-	J	147	3	do	F	D	95	4,510	+ 5.0	4-25	Yield 100 gpm; sample; water used for washing only.
25ccc-4	F. Eastmond	1950	J	105	4	do	C	P	115	4,500	+ 6.9	4-25	Yield 125 gpm; log; sample.
26bdb-1	M. Shiba	1934	Dr	500	10	Deep Pleistocene aquifer	T	I	86	4,560	-70	4-29	Sample.
(D-4-1)25cad	J. H. Williams	1900	Dr	35	4	Lake Bonneville Group	J	D	54	4,905	-12.1	4-3	
26caa	Wm. T. Hyde	1900	Du	25	36	do	-	N	-	4,835	- 7.2	4-3	
26cda-1	W. Ericson	1956	Dr	385	8	Pre-Lake Bonneville deposits	T	D,I	49	4,860	-241.9	4-3	
26dbc	L. M. Binns	-	Du	14	30	Lake Bonneville Group	-	N	-	4,890	-16.1	4-3	
33ccc-1	Wm. Buchanan	-	Du	50	36	do	-	N	-	4,775	-19.0	4-3	
35ada	G. E. Chidester	1926	Du	35	30	do	-	N	-	4,880	-18.1	4-3	
35bcd	S. S. Pulley	-	Du	26	30	do	-	N	-	4,840	-21.2	4-3	
35cbb	Federal Land Bank Berkeley, Calif.	1929	Du	25	24	do	-	N	-	4,825	-19.7	4-7	
36bab	Wm. Hoover	1920	Du	48	30	do	-	N	-	4,897	-47.2	4-7	
36cab-1	Provo River Water Users Assoc.	1958	Dr	500	20	Pre-Lake Bonneville deposits	T	I	50	4,900	-293.0	6-6	Yield 1,700 gpm; log; sample; specific capacity 212.
36cbd-1	R. Kanno	-	Dr	40	10	Lake Bonneville Group	T	D	49	4,890	-24.0	4-7	Sample.
36cdc	D. H. Adamson	1928	Du	48	42	do	J	D	49	4,890	-24.6	4-7	
(D-4-2)31acd-1	Pleasant Grove Irrigation Co.	1955	Dr	591	16	Pre-Lake Bonneville deposits	Ts	I	49	4,970	-385.0	4-7	Yield 760 gpm; log; sample; specific capacity 28.
31bda-1	Highland Water Co.	1958	Dr	612	16	do	T	P	48	4,965	-392.0	11-24	Yield 700 gpm; sample; specific capacity 54.
(D-5-1)1bbb	O. Hall	-	Du	28	24	Lake Bonneville Group	-	N	-	4,870	-18.5	3-7	
2abb-1	Highland Ward Church of Jesus Christ of Latter Day Saints	1934	Du	30	30	do	J	P	49	4,835	-15.8	3-7	
3bda-2	State of Utah (DRA)	1934	Du	49	36	do	-	O,N	-	4,795	-35.5	4-24	

Table 2.--Records of selected wells in northern Utah Valley - Continued

Well number	Owner or user	Year drilled	Type of well	Depth of well (feet)	Diameter of well (inches)	Principal water-bearing zone	Method of lift	Use of water	Temperature (°F)	Altitude of land-surface datum (feet)	Water level: Above (+) or below (-) land-surface datum (feet)	Water level: Date of measurement 1958	Remarks
(D-5-1)3dad	E. D. Larsen	-	Du	22	36	Lake Bonneville Group	-	N	-	4,780	-18.6	3-7	
3ddd	do	-	Du	25	36	do	-	N	-	4,775	-17.4	3-7	
4bcc-1	Lehi Irrigation Co.	1957	Dr	655	16	Pre-Lake Bonneville deposits	T	I	60	4,680	-93.9	4-21	Yield 1,200 gpm; sample; specific capacity 34.
4bdb	H. J. Smith	-	Du	26	36	Lake Bonneville Group	-	N	-	4,640	-17.9	3-7	
4cbc-1	B. Chiver	1957	Dr	100	4	Shallow Pleistocene aquifer	Ts	D	58	4,610	-36.9	4-17	Sample.
5bbc-1	General Refractories Co.	1953	Dr	293	10	Deep Pleistocene aquifer	T	In	57	4,575	-35.0	4-17	Yield 300 gpm; sample; specific capacity 60.
5bdb	J. Magnusson	1946	Dr	22	6	Lake Bonneville Group	J	D	50	4,660	-11.5	4-17	
5caa-2	Union Pacific Railroad	1915	Dr	690	16	Tertiary undifferentiated deposits	-	N	-	4,609	-	-	Well plugged and abandoned.
6daa-1	B. Sunderland	1958	Dr	192	4	Deep Pleistocene aquifer	Cy	D,S	58	4,560	-14.4	3-18	Yield 8 gpm; sample.
6ddd-1	J. M. College	1947	Dr	135	4	Shallow Pleistocene aquifer	J	D,I	-	4,550	-10.0	3-18	
7caa-3	G. Jacobs	1900	J	93	1¼	do	F	N	-	4,523	+ 4.6	3-18	
8aaa-1	Lehi Irrigation Co.	1931	Dr	270	12	Deep Pleistocene aquifer	T	I	52	4,601	-30.9	4-17	
8aaa-3	do	1956	Dr	710	16	Tertiary undifferentiated deposits	T	I,O	58	4,600	-13.0	4-21	Yield 2,000 gpm; sample; specific capacity 20.
8abd-3	City of Lehi	1958	Dr	505	16	do	-	P	57	4,595	-56.7	8-14	Yield 1,600 gpm; specific capacity 114.
8dcc-1	Lehi Irrigation Co.	1934	Dr	240	14	Deep Pleistocene aquifer	-	O	-	4,555	- 7.2	4-1	Gage. Log.
8ddd-1	S. P. Abbot	1895	J	300	2	Tertiary undifferentiated deposits	F	I	53	4,567	+18.7	4-2	
9acd	Carl Gunther	1900	Du	30	36	Lake Bonneville Group	-	N	-	4,610	-10.0	4-2	
9ccc-1	R. Welch	1891	J	350	2	Tertiary undifferentiated deposits	F	N	54	4,572	+ 8.7	4-2	
9ccc-3	E. N. Webb	1895	J	150	1½	Deep Pleistocene aquifer	F	N	52	4,562	+ 8.2	4-3	
9cdc-4	Wm. Racker	1900	J	57	2	Shallow Pleistocene aquifer	-	N	-	4,560	- 1.0	4-3	
9dbb-1	City of Lehi	1931	Dr	207	12	Deep Pleistocene aquifer	T	P	54	4,560	-	4-3	Yield 600 gpm; log; sample; specific capacity 30.
9dcc-2	C. N. Mercer	1900	J	150	1½	do	F	N	-	4,558	+19.1	4-3	
9dcd-4	Lehi Milk Assoc.	1935	J	165	3	do	F	In	50	4,556	+24.0	4-3	Yield 50 gpm.
10bad-2	R. W. Worthen	1956	Dr	278	6	do	T	D,I	50	4,740	-159.0	8-15	Yield 20 gpm; sample.
10bdb	D. Bateman	1958	Du	18	36	Lake Bonneville Group	C	D	-	4,690	-17.5	5-7	
10cab-1	Mitchell Hollow Irrigation Co.	1934	Dr	400	12	Deep Pleistocene aquifer	-	O	-	4,662	-74.7	3-17	Gage. Log.
10ccd-1	R. C. Hicks	1900	J	125	3	do	Cy	I	-	4,588	- 5.8	4-3	
11bdb	W. O. Hays	-	Du	40	30	Lake Bonneville Group	-	N	-	4,768	-15.1	4-3	
11dbd	S. D. Chipman	1900	Du	12	24	do	-	N	-	4,720	-21.0	4-3	
12cba	Fort Ditch Irrigation Co.	1920	Du	40	30	do	Cy	I	-	4,712	-11.0	4-3	
13aaa	J. Pack	1946	Du	24	36	do	T	I	49	4,675	-14.7	4-3	
13bcb	T. Clark	1906	Du	37	12	do	-	N	-	4,651	-12.2	4-3	
13daa	J. E. Peters	1914	Du	32	36	do	T	I	49	4,632	-22.6	5-15	
14adb-1	City of American Fork	1934	Dr	350	14	Deep Pleistocene aquifer	T	P	-	4,648	-96.0	4-3	
14add	Wm. J. Holdsworth	1913	Du	25	36	Lake Bonneville Group	-	N	-	4,636	-17.9	4-4	
14bca-1	J. Evans	1923	J	200	2	Deep Pleistocene aquifer	F	N	53	4,595	+ 6.2	4-3	
14bcd-2	H. Holindrake	1916	J	150	2	do	F	D	53	4,578	+18.9	4-4	
14ccc-2	C. R. Anderson	1940	J	225	3	do	F	D	-	4,569	+18.0	4-4	
15acb-1	H. Thompson	1931	J	170	4	do	F	D,I,S	53	4,549	+34.9	4-4	
15bbc-2	M. I. Peck	1941	J	315	4	do	F	I	52	4,554	+32.0	4-4	Yield 150 gpm; log.
15bca-1	E. Briggs	1922	J	150	2	do	F	I	-	4,549	+36.0	4-4	
15ddb-2	E. Barrett	1918	J	190	2	do	F	D,S	52	4,555	+31.6	4-4	Yield 40 gpm.
16aad-2	E. Varney	1932	J	100	4	Shallow Pleistocene aquifer	F	I	51	4,541	+ 6.2	4-4	
16acc-1	J. Hunt	1931	J	140	4	Deep Pleistocene aquifer	F	I	53	4,545	+35.0	4-4	
16acd-1	C. Petersen	1905	J	80	2	Shallow Pleistocene aquifer	F	S	51	4,538	+ 7.0	4-4	
16acd-3	A. Christensen	1941	J	240	3	Deep Pleistocene aquifer	F	I,S	53	4,540	+32.7	4-4	
16baa-1	Alpine School Dist., Lehi High School	1957	J	365	5	Tertiary undifferentiated deposits	F	I,O	53	4,548	+39.1	4-4	
16bbb-1	Lehi Stake Tabernacle, Church of Jesus Christ of Latter Day Saints.	1895	J	275	2	Deep Pleistocene aquifer	F	N	53	4,563	+21.1	4-4	
16bbb-6	Alpine School Dist., Lehi High School	1945	J	145	4	Shallow Pleistocene aquifer	F	N	52	4,555	+ 8.9	4-7	Sample.
16bdd-1	D. Van Wagner	1920	J	200	4	Deep Pleistocene aquifer	F	I,S	52	4,538	+24.8	4-7	
16cab-2	C. Willes	1938	J	196	4	do	F	D	-	4,536	+28.7	4-7	
16ccb-3	O. Larson	1952	J	199	4	do	F	D,I	52	4,530	+28.3	4-7	
16dbb-5	C. Peterson	1900	J	100	1½	Shallow Pleistocene aquifer	F	I	51	4,528	+18.9	4-7	
16ddc-8	F. Hunting	1952	J	183	4	Deep Pleistocene aquifer	F	I	52	4,525	+50.1	4-7	
17aab-8	G. M. Lewis	1900	J	120	2	do	F	O	53	4,560	+ 2.7	4-7	Sample.
17acb-5	A. Holmstead	1912	J	150	2	do	F	D	53	4,546	+14.0	4-8	
17ada-2	L. Powell	1932	J	337	2	Tertiary undifferentiated deposits	F	D,I	54	4,547	+36.8	4-8	
17adc-12	H. C. Comer	1933	J	303	4	do	F	I,O,S	54	4,544	+31.2	4-8	Yield 60 gpm.
17add-10	A. Gardner	1900	J	150	1½	Deep Pleistocene aquifer	F	I	53	4,543	+13.3	4-8	
17cdb-1	A. Peterson	1900	J	150	2	do	F	I	53	4,526	+16.2	4-8	
17dac-2	F. Peterson	1900	J	200	2	do	F	S	52	4,533	+18.7	4-9	
18aba-3	E. Fox	1900	J	175	2	do	F	I	52	4,524	+21.7	4-9	
18abb-5	R. W. Webb	1940	J	337	3	Tertiary undifferentiated deposits	F	D,O,S	53	4,518	+23.2	4-9	
18acb-2	W. Carson	1887	J	150	2	Deep Pleistocene aquifer	F	D,I	52	4,519	+15.3	4-9	
18bca-1	M. M. Thurman and others	1900	J	100	4	Shallow Pleistocene aquifer	F	I	51	4,508	+10.6	4-9	
18bcc-1	A. Evans	1900	J	175	2	Deep Pleistocene aquifer	F	D,I	52	4,506	+22.3	4-9	

Table 2.--Records of selected wells in northern Utah Valley - Continued

Well number	Owner or user	Year drilled	Type of well	Depth of well (feet)	Diameter of well (inches)	Principal water-bearing zone	Method of lift	Use of water	Temperature (°F)	Altitude of land-surface datum (feet)	Water level: Above (+) or below (-) land-surface datum (feet)	Water level: Date of measurement 1958	Remarks
(D-5-1)18cab-2	P. Gray	1957	Dr	618	12,8	Tertiary undifferentiated deposits	F	I	56	4,508	+26.3	4-9	Sample; 12 inch casing to 460 ft; 8 inch casing to 618 ft; perforated below 305 ft.
18cac-1	do	1944	J	131	5	Deep Pleistocene aquifer	F	I	52	4,511	+17.2	4-9	
18cbc-2	do	1954	J	330	4	Tertiary undifferentiated deposits	F	I	53	4,505	+25.6	4-9	
18dbc-2	G. Goates	1900?	J	100	2	Shallow Pleistocene aquifer	F	I,S	54 ?	4,516	+10.1	4-9	
19bbb-1	J. Smith	1910	J	100	2	do	F	I,S	54	4,503	+17.9	4-10	
19bcb-1	O. Rolfe	1951	J	233	4	Deep Pleistocene aquifer	F	I,S	56	4,500	+27.2	4-24	
19bdb-3	T. Webb	1919	J	250	2	do	F	I	55	4,503	+24.8	4-10	
19cac-3	J. Anderson	1900	J	80	1¼	Shallow Pleistocene aquifer	F	I	-	4,495	+16.2	4-10	
19ccc-1	Saratoga Springs Resort	1954	J	284	4	Deep Pleistocene aquifer	F	D	55	4,495	+20.8	4-17	Sample.
19dac-2	V. Peterson	1944	J	155	4	do	F	I	-	4,498	+30.0	4-17	Yield 200 gpm; log; perforated below 143 ft.
19dbd-5	J. F. Royle	1950	J	200	4	do	F	I,S	52	4,495	+28.3	4-10	
19dcd-2	E. J. Christopherson	1921	J	180	2	do	F	D	52	4,495	+29.1	4-10	
20aab-4	A. F. Davis	1935	J	300	4	Tertiary undifferentiated deposits	F	I	53	4,510	+49.0	4-10	
20aba-1	J. G. Cox	1935	J	292	3	do	F	I,O	53	4,516	+49.2	4-10	Gage. Yield 110 gpm.
20aba-2	do	1898	J	154	2	Deep Pleistocene aquifer	F	O	52	4,521	+26.1	4-10	Gage.
20aba-6	do	1940?	J	321	4	Tertiary undifferentiated deposits	F	D	53	4,520	+47.6	4-10	Sample.
20cbc-1	D. Jones	1890	J	180	2	Deep Pleistocene aquifer	F	I,S	52	4,501	+37.2	4-10	
20dbb-1	C. O. Holmstead	1929	J	165	2	do	F	I	53	4,505	+42.1	4-10	
21abb-1	L. Powell	1920	J	150	2	do	F	I,S	52	4,519	+62.0	4-11	
21daa-1	F. Hunting	1935	J	77	4	Shallow Pleistocene aquifer	F	D	52	4,505	+21.0	4-11	
21dab-2	do	1949	J	179	4	Deep Pleistocene aquifer	F	I	52	4,505	+66.3	4-11	
21dac-1	B. Hunting	1948	J	191	4	do	F	I	52	4,502	+69.7	4-11	
21dba-2	G. L. Crawford	1941	J	63	3	Shallow Pleistocene aquifer	F	I	51	4,498	+21.2	4-11	Yield 150 gpm; sample.
21dba-3	do	1946	J	185	3	Deep Pleistocene aquifer	F	I	52	4,502	+67.2	4-11	Yield 270 gpm; sample.
21dda-2	D. Wagstaff	1947	J	189	4	do	F	D,I,O	52	4,499	+71.8	4-11	Yield 280 gpm; sample.
22aaa-1	L. Moubray	1942	J	211	3½	do	F	O,S	-	4,560	+28.3	4-11	
22bab-2	B. Hunting	1946	J	150	2	do	F	I,S	52	4,519	+62.0	4-11	
22bca-1	L. Wagstaff	1931	J	187	4	do	F	I	52	4,516	+61.2	4-11	Yield 300 gpm.
22bdb-1	do	1931	J	57	4	Shallow Pleistocene aquifer	F	D	51	4,520	+18.6	3-12	
22cca-1	B. Baley	1927	J	67	2	do	F	I	51	4,504	+33.5	4-11	
22dac-1	J. H. Tattersall	1923	J	80	3	do	F	I	51	4,533	+17.0	4-11	
22dac-2	do	1931	J	237	4	Deep Pleistocene aquifer	F	D,I	52	4,533	+51.6	4-11	
23bac-1	S. Beck	1900?	J	145	2	do	F	I	52	4,573	+ 5.9	4-11	Sample.
23bbc-1	M. Jones	1910	J	250	2½	do	F	D	52	4,563	+21.6	4-11	
23bdb-2	A. Chipman	1898	J	270	3	do	F	D,S	52	4,572	+13.6	4-14	Sample.
23cab-2	W. S. Storrs	1909	J	255	2	do	F	D	-	4,554	+32.4	4-14	Do.
23dab-3	City of American Fork	1890	J	400	3	Tertiary undifferentiated deposits	F	I,O	-	4,560	+23.0	4-14	
23dca-1	M. Varanakis	1935	J	353	4	Deep Pleistocene aquifer	F	I	52	4,557	+30.2	4-14	Yield 100 gpm; log; perforated below 274 ft.
24aab-2	J. Parr	1931	J	100	3	Shallow Pleistocene aquifer	-	N	-	4,603	-39.6	4-14	
24add	M. Rominger	1900	Du	43	36	Lake Bonneville Group	-	N	-	4,575	- 5.1	4-14	
24ccc-2	G. Williams	1943	J	291	5	Deep Pleistocene aquifer	F	D	52	4,554	+31.8	4-14	
24dca-1	H. Vest	1938	J	380	4	do	F	I	52	4,564	+27.1	4-14	
24ddd-3	E. K. Vest	1942	J	320	3	do	F	I	52	4,500	+37.3	4-14	
24ddd-4	do	1946	J	106	4	Shallow Pleistocene aquifer	F	I	51	4,550	+ 9.6	4-14	
25ccd-1	A. M. Spencer	1950	J	330	5	Deep Pleistocene aquifer	F	I,O	52	4,510	+54.2	4-14	
25dad-1	W. T. Adamson	1900	J	80	3	Shallow Pleistocene aquifer	F	D	51	4,515	+40.6	4-14	
26abc-1	H. Christensen	1935	J	302	4	Deep Pleistocene aquifer	F	I,S	52	4,529	+35.9	4-14	
26bad-1	J. W. Chipman	1934	J	140	4	Shallow Pleistocene aquifer	F	I	52	4,531	+20.2	4-14	
26cdb-1	E. H. Devey	1944	J	119	4	do	F	D	52	4,500	+34.9	4-14	
26dbb-1	J. H. Tatterson	1924	J	98	3	do	F	I	51	4,517	+29.4	4-14	
27abb-2	M. M. Boley	1898	J	60	2½	do	F	I	51	4,506	+27.2	4-14	
29bab-2	J. Southwick	-	Dn	25	1¼	do	F	D	53	4,490	+ 3.9	4-14	Sample.
30bab-3	B. E. Evans	1939	J	100	4	do	F	D	51	4,495	+18.6	4-14	
35ada-1	American Fork Boat Harbor	1957	J	125	3	do	F	P	51	4,490	+44.9	3-12	Sample.
36aaa-1	G. E. Graff	1934	J	150	4	do	F	I	-	4,507	+42.3	4-14	
36adb-2	L. Wagstaff	1935	Dr	158	5	do	F	I	52	4,500	+45.2	4-14	Log.
36bab-1	W. W. Graff	1952	J	153	3	do	F	I,O	52	4,500	+50.0	4-14	
(D-5-2)6cbb	J. G. Harris	1900?	Du	27	36	Lake Bonneville Group	-	N	-	4,770	-16.3	4-14	
7aad-1	Pleasant Grove Irrigation Co.	1955	Dr	415	16	Deep Pleistocene aquifer	Ts	I	55	4,825	-200	4-14	Yield 1,150 gpm; sample; specific capacity 83; perforated 195 to 280 ft and 285 to 410 ft.
7bcd	H. G. Warnick	1920	Du	52	30	Lake Bonneville Group	-	N	-	4,785	-26.1	4-14	
7dba	A. P. Warnick	1915	Du	50	36	do	-	N	-	4,780	-22.0	4-14	
7dcd	C. L. Warnick	1933	Du	10	36	do	Cy	D	48	4,730	- 7.0	4-14	
8ccd-1	Manila Culinary Water Co.	1953	Dr	360	12	Deep Pleistocene aquifer	T	P	55	4,735	-125	4-14	Yield 1,200 gpm; sample; perforated 229 to 298 ft and 310 to 358 ft.
17dac	J. L. Robey	1900	Du	15	36	Lake Bonneville Group	-	N	-	4,675	-19.6	4-14	
18acd	H. J. Jeppson	1944	J	76	4	do	Cy	D	48	4,622	-50.3	4-14	
18dcd-2	A. C. Christensen	-	J	230	2	Deep Pleistocene aquifer	F	D,O	-	4,590	+ 6.1	4-14	
19aca-2	K. N. Butler	1958	Dr	330	8	do	F	D	52	4,562	+23.8	6-2	Yield 100 gpm; sample; perforated 300 to 330 ft.
19bab	L. L. Long	1910	Du	28	40	Lake Bonneville Group	-	N	-	4,595	- 7.0	4-15	
19bbd-1	A. C. Curtis	1956	J	88	5	Shallow Pleistocene aquifer	T	S	51	4,580	-19.7	4-15	
19caa-1	J. G. Makin	1946	J	170	4	do	F	I	51	4,563	+ 2.1	4-15	
19cab-1	N. Robinson	1925	J	300	2	Deep Pleistocene aquifer	F	D,S	53	4,555	+23.4	4-15	
19dab-1	A. Gleason	1890	J	70	1½	Shallow Pleistocene aquifer	F	D,S	52	4,550	+11.8	4-15	

Table 2.--Records of selected wells in northern Utah Valley - Continued

Well number	Owner or user	Year drilled	Type of well	Depth of well (feet)	Diameter of well (inches)	Principal water-bearing zone	Method of lift	Use of water	Temperature (°F)	Altitude of land-surface datum (feet)	Water level: Above (+) or below (-) land-surface datum (feet)	Water level: Date of measurement 1958	Remarks
(D-5-2)19dca-1	L. Robinson	1933	J	90	3	Shallow Pleistocene aquifer	F	D,S	52	4,545	+15.8	4-15	
20cba-2	R. A. James	1923	J	215	3	Deep Pleistocene aquifer	F	I	53	4,558	+24.0	3-19	
20cba-5	B. H. Adams	1923	J	80	3	Shallow Pleistocene aquifer	F	D	52	4,560	+ 6.4	3-19	
20cbd-1	B. Frampton	1921	J	70	3	do	F	S	52	4,547	+13.6	4-15	
21bcd-1	Pleasant Grove Irrigation Co.	1955	Dr	445	16	Deep Pleistocene aquifer	Ts	I	53	4,740	-160	4-15	Yield 1,670 gpm; sample; specific capacity 60; perforated 187 to 445 ft.
29abb-1	City of Pleasant Grove	1900	J	70	2	Shallow Pleistocene aquifer	F	N	52	4,556	+ 9.3	4-15	Sample.
29bda-4	do	1952	J	110	4	do	F	I	52	4,539	+25.1	4-15	Yield 140 gpm; sample.
29cab-2	H. Smith	1934	J	150	3	do	F	I	52	4,538	+27.8	4-15	Yield 100 gpm; sample.
29ccc-1	J. L. Thorne	1912	J	134	4	do	F	I	52	4,519	+41.9	4-15	
29dba-4	M. Richins	1900	J	80	2	do	F	D,O	52	4,548	+16.2	4-15	
29dbb-4	J. West	1954	J	289	4	Deep Pleistocene aquifer	F	I	53	4,550	+28.3	4-15	
29ddc-2	D. Walker (Estate)	1931	J	160	4	Shallow Pleistocene aquifer	F	I	52	4,544	+20.1	4-15	
30aba-1	T. Proctor	1906	J	115	2	do	F	D,S	52	4,534	+30.1	4-15	
30cba-1	R. Williamson	1932	J	139	4	do	F	I	52	4,519	+34.3	4-15	
30ccb-2	A. Bromley	1945	J	225	5	Deep Pleistocene aquifer	F	I	53	4,520	+40.6	4-15	
30dca-1	V. N. West	1934	J	140	5	Shallow Pleistocene aquifer	F	I,S	52	4,514	+40.5	4-15	
31abb-2	J. Christensen	1935	J	156	5	do	F	I	52	4,509	+46.3	4-15	
31acb-2	E. Jeppson	1934	J	169	5	do	F	I	52	4,500	+50.7	4-15	
32acb-1	A. Richins	1928	J	287	4	Deep Pleistocene aquifer	F	I	53	4,522	+37.8	4-15	Sample.
32acb-2	do	1895	J	50	3	Shallow Pleistocene aquifer	F	I	52	4,523	+23.9	4-15	
32bcb-2	do	1900	J	176	5	do	F	I	52	4,499	+50.6	4-15	Yield 200 gpm.
32bdb-3	B. Anderson	1934	J	177	5	do	F	I,O	52	4,510	+46.0	4-15	Sample.
32dab-1	Pleasant Grove Canning Co.	1910	J	70	2½	do	F	In	52	4,538	+20.3	4-15	
33acd-1	City of Lindon	1955	Dr	400	16	Deep Pleistocene aquifer	T	P	54	4,650	(-)	4-15	Sample.
(D-6-1)29dab-1	R. Cedarstrom	1881?	J	165	1¼	Shallow Pleistocene aquifer	F	D	60	4,490	+ 1.6	4-24	Sample.
(D-6-2)3bdd	Pioneer Pumping Co.	1919	Du	75	12	Lake Bonneville Group	T	I	49	4,757	-14.2	4-16	
3ddd	W. H. Grant	1931	Dr	87	8	do	-	N	-	4,780	-13.0	4-16	
4abc	-	-	Du	80	24	do	-	N	-	4,730	-12.2	4-16	
5acc-4	United States Steel Corp. Western Consolidated Pipe Mill	1954	Dr	1,063	18	Tertiary undifferentiated deposits	F	In	69	4,530	+34.0	4-16	Yield 2,000 gpm; sample; perforated below 560 ft.
5bcd-2	A. J. Marrott	1946	J	136	4	Shallow Pleistocene aquifer	F	I	52	4,522	+20.2	4-16	
6abb-1	Geneva Canning Co.	1917	J	180	4	do	F	I	52	4,500	+41.6	4-16	
6acc-1	Utah Power and Light Co.	1934	J	147		do	F	I,S	57	4,500	+42.6	4-16	Log; sample.
8acb-1	United States Steel Corp. Columbia-Geneva Div.	1950	Dr	1,192	18	Tertiary undifferentiated deposits	F	In	69	4,543	+21.3	3-27	Yield 3,700 gpm; log; perforated below 786 ft.
8bca-6	do	1950	Dr	1,066	18	do	F	In	69	4,530	+36.6	3-27	Yield 2,800 gpm; perforated below 882 ft.
8bcd-4	do	1947	Dr	830	16,12	do	F	In	70	4,530	+34.0	3-27	Yield 2,200 gpm; sample; 16 inch casing to 620 ft and 12 inch casing to 830 ft; perforated below 748 ft.
8bdb-2	do	1930	J	120	5	Shallow Pleistocene aquifer	F	N	-	4,542	+ 3.0	4-16	
8cac-5	do	1950	Dr	1,190	18	Tertiary undifferentiated deposits	F	In	69	4,530	+37.2	3-27	Yield 2,850 gpm; perforated below 882 ft.
8cda-1	do	1950	Dr	1,090	18	do	F	In	69	4,530	+34.2	3-27	Yield 3,900 gpm; perforated below 756 ft.
9bdd	D. Bilboa	1910	Du	30	36	Lake Bonneville Group	-	N	-	4,660	-14.2	4-16	
10adc	-	-	Du	25	24	do	-	N	-	4,652	-16.9	4-16	
10dbc	-	-	Du	35	24	do	-	N	-	4,755	- 4.0	4-16	
16aba-1	D. Larsen	1907	Du	16	24	do	-	N	-	4,560	- 3.0	4-16	
16acd-2	V. R. Weaver	1958	Dr	399	8	Deep Pleistocene aquifer	T	S	53	4,620	-55.0	8-2	Perforated below 357 ft.
16bcb-1	Alpine School Dist. Union School	1915	J	318	3	do	F	P	54	4,552	+ 4.8	4-16	
16bda	C. Stewart	1936	Du	15	36	Lake Bonneville Group	-	N	-	4,615	- 1.1	4-16	
17acb-1	E. Holdaway	1923	J	328	4	Deep Pleistocene aquifer	F	D	53	4,538	+15.3	4-16	
17acb-4	do	1895	J	110	4	Shallow Pleistocene aquifer	F	S	52	4,538	+ 6.5	4-16	
17acc-1	do	1916	J	130	4	do	F	I	52	4,528	+17.4	4-16	
17cdd-3	W. R. Holdaway	1919	J	234	4	Deep Pleistocene aquifer	F	D	54	4,533	+23.8	4-16	
17dba-5	Federal Land Bank Berkeley, Calif.	1914	J	115	3	Shallow Pleistocene aquifer	F	I	52	4,539	+ 6.9	4-16	
17dda-4	L. Kirk	1942	J	122	4	do	F	I	53	4,545	+ 2.1	4-16	Yield 150 gpm; log.
17ddd-2	do	1917	J	280	2½	Deep Pleistocene aquifer	F	I	54	4,542	+18.7	4-16	
17ddd-3	W. R. Holdaway	1917	J	116	4	Shallow Pleistocene aquifer	F	D	52	4,541	+ 4.3	4-16	
18aba-2	T. Allen	1942	J	128	3	do	F	D	57	4,518	+20.2	4-16	Sample.
18abb-1	do	1942	J	115	3	do	F	I	55	4,515	+20.3	4-16	
18add-2	R. Gammon	1935	J	131	5	do	F	D,O	58	4,515	+24.4	4-16	Sample.
18ddd-2	M. L. Holdaway	1911	J	95	2	do	F	D	53	4,511	+26.2	4-16	
20abd-1	do	1908	J	98	4	do	F	D,I	53	4,526	+10.6	4-16	
20cdd-1	City of Orem	1958	J	105	4	do	F	D	53	4,515	+17.9	8-6	Yield 130 gpm.
20daa-1	L. Clegg	1919	J	105	5	do	F	I	53	4,514	+23.6	4-17	
20dda-1	C. W. Harding	1932	J	104	5	do	F	I	53	4,518	+17.3	4-29	
21bcc-3	L. Clegg	1922	J	110	5	do	F	I	54	4,531	+15.6	4-17	
21bcc-6	Vineyard Ward Church of Jesus Christ of Latter Day Saints	1947	J	275	3	Deep Pleistocene aquifer	F	D	55	4,530	+29.8	4-17	
21cbb-4	L. Clegg	1908	J	115	5	Shallow Pleistocene aquifer	F	I	53	4,529	+13.6	4-17	
21cbd-2	J. J. Madsen	1942	J	258	3	Deep Pleistocene aquifer	F	D	55	4,530	+29.1	4-29	

Table 2.--Records of selected wells in northern Utah Valley - Continued

Well number	Owner or user	Year drilled	Type of well	Depth of well (feet)	Diameter of well (inches)	Principal water-bearing zone	Method of lift	Use of water	Temperature (°F)	Altitude of land-surface datum (feet)	Water level: Above (+) or below (-) land-surface datum (feet)	Water level: Date of measurement 1958	Remarks
(D-6-2)21cca-4	R. Blake	1958	J	111	4	Shallow Pleistocene aquifer	F	I	53	4,521	+18.6	4-17	Yield 150 gpm; sample; perforated below 101 ft.
21cdc-2	J. T. Blake	1950	J	249	4	Deep Pleistocene aquifer	F	I,S	56	4,530	+24.9	4-16	Log; sample.
22bdc	V. G. Miller	1920	Du	65	30	Lake Bonneville Group	-	N	-	4,728	-32.4	4-17	
23bab	-	1900	Du	50	24	do	-	N	-	4,765	-13.0	4-17	
23bdc	-	1910	Du	60	30	do	-	N	-	4,758	-12.2	4-17	
23bdd-1	Sharon Co-op. Education Assoc.	1945	Dr	178	12	Shallow Pleistocene aquifer	T	P	-	4,757	-40.6	4-17	
24bac	C. O. Keeler	1900	Du	19	24	Lake Bonneville Group	-	N	-	4,740	- 5.0	4-17	
24bbb	-	1905	Du	40	36	do	-	N	-	4,785	-15.2	4-17	
24bcb	-	1910	Du	25	30	do	-	N	-	4,770	-12.3	4-17	
25bca	-	-	Du	35	30	do	-	N	-	4,680	-14.1	4-17	
25cba	J. C. Melling	1930	Du	25	30	do	-	N	-	4,668	- 2.7	4-17	
26cba	-	-	Du	40	24	do	-	N	-	4,730	-12.0	4-17	
26dcd-1	Beehive Telecasting Corp.	1958	Dr	297	6	Shallow Pleistocene aquifer	T	In	55	4,700	-144.1	6-23	Yield 280 gpm; sample; specific capacity 56; perforated 270 to 297 ft.
26dda	-	-	Du	30	30	Lake Bonneville Group	-	N	-	4,700	-20.0	4-17	
28baa-1	H. Williamson	1925	J	110	2½	Shallow Pleistocene aquifer	F	D,I,O	53	4,517	+15.6	4-17	Yield 250 gpm.
28cad-1	H. J. Clinger	1920	J	127	4	do	F	I	53	4,513	+11.4	4-17	
28dba-3	T. C. Boulton	1943	J	266	3	Deep Pleistocene aquifer	F	D,I,S	55	4,531	+28.9	4-17	
28dda-3	W. A. Taylor	1918	J	140	2	Shallow Pleistocene aquifer	F	D	54	4,529	+ 4.8	4-17	
33abd-2	S. Madsen	1910	J	118	4	do	F	I	54	4,513	+16.9	4-17	
33dad-1	W. B. Adams	1943	J	123	4	do	F	S	54	4,515	+15.3	4-17	
34bbc-1	L. C. Scott	1919	J	145	4	do	F	D,S	54	4,532	+ 3.6	4-17	
34bca-5	Lakeview Ward Church of Jesus Christ of Latter Day Saints	1900	J	304	2	Deep Pleistocene aquifer	F	D	-	4,531	+32.0	4-17	Log.
34bdb-2	T. Johnson	1919	J	105	4	Shallow Pleistocene aquifer	F	D,S	54	4,535	+ 1.6	4-17	
34caa-4	H. Johnson	1935	J	251	3	Deep Pleistocene aquifer	F	S	56	4,529	+18.9	4-17	
34caa-5	G. Taylor	1943	J	108	2	Shallow Pleistocene aquifer	F	D,I,S	54	4,529	+ 5.2	4-17	
36bda-1	B. H. Jolley	1900	Du	10	24	Lake Bonneville Group	-	N	-	4,600	-13.0	4-17	
(D-6-3)31cab-2	Brigham Young Univ.	1956	Dr	581	16	Deep Pleistocene aquifer	-	N	-	4,650	-87.6	4-16	Yield 1,800 gpm; log; sample; specific capacity 78.
(D-7-1)18dbb-1	R. Carmichael	1958	Dr	136	6	Shallow Pleistocene aquifer	-	N	56	4,495	-17.0	5-27	Yield 150 gpm; log; sample; specific capacity 3; perforated below 115 ft.
(D-7-2)1abd-1	City of Provo	1958	Dr	700	20	do	-	P	56	4,567	- 9.8	10-28	Yield 2,300 gpm; log; sample; specific capacity 104; perforated 210 to 272 ft.
1caa-1	J. H. Manson	1915	J	165	2	do	F	N	55	4,550	+ 8.9	10-1	
1dbc-1	Wm. Frisby	1946	J	407	2	Deep Pleistocene aquifer	F	I	57	4,550	+22.7	4-17	
1dcd-6	O. R. Thomas	1910	J	85	2	Shallow Pleistocene aquifer	F	S	54	4,534	+17.3	4-21	
2adc-1	J. Binder	1948	J	150	3	do	F	I	55	4,540	+11.2	4-17	
2bdc-1	M. Brereton	1900	J	190	3	Deep Pleistocene aquifer	F	S	56	4,528	+19.3	4-21	
2cad-8	G. Hone	1898	J	167	2	Shallow Pleistocene aquifer	F	I	56	4,524	+29.5	4-21	Log.
2cba-1	H. A. Butler	1946	J	273	3	Deep Pleistocene aquifer	F	D	56	4,523	+25.6	4-21	
2dca-4	Pacific Coast Canners Inc.	1910	J	360	3	do	F	In	56	4,535	+15.9	4-21	
2dcb-3	R. Vincent	1930	J	180	2	Shallow Pleistocene aquifer	F	I,S	55	4,528	+22.2	4-21	
2dda-1	E. Jenkins	1927	J	176	2	do	F	I	56	4,535	+14.2	4-21	
3aad-4	A. Grossman	1935	J	275	2	Deep Pleistocene aquifer	F	I	56	4,532	+21.7	4-21	
3add-5	E. C. Jacobson	1945	J	275	2	do	F	I	59	4,519	+28.2	4-21	Log.
3bdb-3	R. Madsen	1898	J	135	2	Shallow Pleistocene aquifer	F	S	55	4,503	+24.3	4-21	
3cca-1	J. Allen	1944	J	137	3	do	F	D	55	4,496	+29.6	4-21	
3dca-1	V. Fisher	1941	J	135	3	do	F	I	56	4,504	+24.6	4-21	
4adc-1	V. R. Fisher	1948	J	132	4	do	F	I	55	4,493	+27.4	9-22	
4cbb-2	P. Edwards	1930	J	190	5	do	F	D	55	4,495	+29.2	4-18	Sample.
4cbc-1	H. A. Knudsen	1938	Dr	250	5	Deep Pleistocene aquifer	F	I	54	4,490	+32.0	5-13	Log.
4dbb-1	L. Adams	1945	J	154	3	Shallow Pleistocene aquifer	F	I	53	4,493	+26.3	4-21	Yield 400 gpm; log.
5daa-1	Provo Lions Club	1958	J	189	4	do	F	I	53	4,490	+29.6	5-19	
5dba-1	City of Provo	1942	J	277	4	Deep Pleistocene aquifer	F	D	53	4,490	+31.0	4-25	Sample.
10abc-3	Provo Stake Farm Church of Jesus Christ of Latter Day Saints	1947	J	147	3	Shallow Pleistocene aquifer	F	D,I,S	55	4,498	+32.4	4-21	
10bba-2	Hinckley Farms	1943	J	140	2	do	F	O,S	55	4,495	+32.3	4-18	
11acc-2	B. Johnson	1940	J	160	2	do	F	I	55	4,515	+30.6	4-18	
11bab-2	B. Scott	1915	J	143	2	do	F	I	55	4,518	+20.1	4-18	
11bca-4	V. Carter	1943	J	142	2½	do	F	I,O	55	4,500	+30.1	4-18	
11caa-1	R. B. Ladle	1936	J	160	4	do	F	I	55	4,506	+28.4	4-18	
11ddc-2	G. Groneman	1934	J	273	4	Deep Pleistocene aquifer	F	I	57	4,503	+35.5	4-21	
11ddd-1	J. E. Stubbs	1920	J	167	2	Shallow Pleistocene aquifer	F	I	55	4,500	+28.9	4-21	
12abc-3	H. C. Miller	1896	J	250	2	Deep Pleistocene aquifer	F	I	56	4,528	+23.4	4-21	
12acd-1	E. M. Paxman	1908	J	180	2	Shallow Pleistocene aquifer	F	I	55	4,513	+31.8	4-21	
12bab-4	Wm. K. Farrer	1906	J	170	2	do	F	I	55	4,534	+15.3	4-21	
12bad-1	City of Provo	1934	J	210	2	do	F	N	-	4,526	+24.0	4-21	Log.
12cda-3	E. H. Goodwin	1913	J	120	2	do	F	I	55	4,510	+35.4	4-21	
13bcb-2	M. Cook	1943	J	185	2	do	F	I	55	4,499	+44.1	4-21	
14aab-2	L. B. Johnson	1921	J	167	2	do	F	I	55	4,499	+42.0	4-21	
25dab-1	K. Alleman	1955	J	130	2	do	F	S	55	4,490	+22.8	4-21	
35ccd-1	G. Hales	1900	J	300	2	Deep Pleistocene aquifer	F	I,O	56	4,507	+ 8.0	4-21	
36dab-1	B. Huntington	-	J	100	3	Shallow Pleistocene aquifer	F	S	55	4,500	+12.6	4-21	
36dcc-2	H. Spatford	1900	J	-	2	-	F	I,O	-	4,[illegible]	+18.1	3-18	

Table 2.--Records of selected wells in northern Utah Valley - Continued

Well number	Owner or user	Year drilled	Type of well	Depth of well (feet)	Diameter of well (inches)	Principal water-bearing zone	Method of lift	Use of water	Temperature (°F)	Altitude of land-surface datum (feet)	Water level: Above (+) or below (-) land-surface datum (feet)	Water level: Date of measurement 1958	Remarks
(D-7-3)6cca-2	J. Mangum	1908	Dr	400	4	Deep Pleistocene aquifer	F	I	57	4,545	+11.6	4-21	
6dcb	-	-	Du	50	36	Lake Bonneville Group	-	N	-	4,575	-30.0	4-21	
7bbd-3	E. P. Thomas	1890	J	175	2	Shallow Pleistocene aquifer	F	S	55	4,532	+19.6	4-21	
7dcc-1	Los Angeles and Salt Lake Railroad Co.	1918	Dr	270	4	Deep Pleistocene (?) aquifer	F	N	64	4,517	+30.6	4-21	Yield 200 gpm; log.
19aab-1	J. Kuhni	1940	J	305	5	do	F	I	58	4,495	+50.0	4-21	Log.
19aac-2	do	1940	J	80	2	Shallow Pleistocene aquifer	F	D	55	4,494	+11.6	4-21	
19dbd-1	L. Childs	1953	J	111	2	do	F	S	55	4,493	+18.8	4-21	
28ccc	-	-	Du	40	36	Lake Bonneville Group	-	N	-	4,550	-34.0	4-21	
29dcb-1	H. C. Sumsion	1953	J	136	2	Shallow Pleistocene aquifer	F	I	52	4,540	-	4-21	Log.
32bcc-1	Wood Springs Irrigation Co.	1934	Dr	414	3	Tertiary undifferentiated deposits	F	I	62	4,511	+50.9	4-21	Sample.
33aba-2	A. H. Roylance	1885	J	150	2	Shallow Pleistocene aquifer	F	I	53	4,563	+16.9	4-21	
33baa-6	A. W. Finley	1900	J	138	2	do	F	I,O	54	4,561	+18.3	4-21	Sample.
33cba-1	Wm. Grooms	1891	J	237	2	Deep Pleistocene aquifer	F	I	56	4,573	+25.1	4-21	

Table 3.--Records of selected springs in northern Utah Valley

Use: A, abandoned; D, domestic; P, Public Supply; S, stock.
Remarks: "Sample" indicates that chemical analysis is given in table 5.

Location	Source	Use of water	Temperature (°F)	Remarks
(C-5-1)25bbc-1	Alluvium	S	110	Sample.
25cdc	Lakebed sediments	-	107	Spring rises in bottom of Utah Lake; sample.
26aad-1	Alluvium	S	110	
(C-6-1)1aab-1	Lakebed sediments	-	90	Fault-zone spring, which rises in bottom of Utah Lake; sample.
1aba-1	do	-	-	Fault-zone spring, which rises in bottom of Utah Lake; known as Kidney Spring; sample.
1ada-1	do	-	-	Fault-zone spring, which rises in bottom of Utah Lake; known as Big Spring; sample.
(D-4-2)7dba	Alluvium	P	-	Known as Schoolhouse Spring; supplies city of Alpine; sample.
7db	do	P	-	Known as Grove Spring; supplies city of Alpine; sample.
(D-5-1)28bbc-1	do	-	55	Spring discharges into Utah Lake.
29cca-1	do	-	55	Do.
(D-5-2)16dbd-1	Limestone	P	42	Supplies city of Pleasant Grove; sample.
27aba-1	do	P	45	Known as Battle Creek Spring; supplies city of Pleasant Grove; sample.
36dbb	do	P	-	Known as Dry Spring; supplies city of Lindon; sample.
(D-6-1)1aca-1	Alluvium	-	55	Spring discharges into Utah Lake.
(D-7-1)5ccb-1	Limestone	-	77	Fault-zone spring; sample.
8bbc-1	Alluvium	S	75	Sample.
(D-7-3)35cdb-1	Quartzite and limestone	P	42	Known as Spring Creek Spring; supplies city of Springville; sample.
(D-8-1)2ccb-1	Alluvium	A	87	Spring discharges into Utah Lake.
2ccd-1	do	A	87	Do.
3dcd-1	do	A	87	Do.

Table 4.--Selected drillers' logs of wells in northern Utah Valley

Altitudes are for land surface at well.

Thickness in feet. Depth in feet below land surface.

	Thickness	Depth
(C-5-1)12dcc-6. Log by Eldon Comer. Alt. 4,505 ft.		
Soil	3	3
Clay	88	91
Gravel	13	104
(C-5-1)25ccc-4. Log by Eldon Comer. Alt. 4,500 ft.		
Soil	3	3
Clay	92	95
Gravel and sand	10	105
(D-4-1)36cab-1. Log by George Roberts. Alt. 4,900 ft.		
Boulders and gravel	28	28
Clay, sandy	90	118
Boulders and gravel	57	175
Sand and clay; some gravel	33	208
Sand and gravel; dry	104	312
Gravel and boulders; water	158	470
Conglomerate, clay and gravel	30	500
(D-4-2)31acd-1. Log by Eldon Comer. Alt. 4,970 ft.		
Boulders and gravel	213	213
Boulders and gravel, in yellow clay mix	174	387
Gravel; water	11	398
Clay and boulders	8	406
Conglomerate, hard	15	421
Gravel; small water	5	426
Conglomerate in layers and gravel; water	44	470
Conglomerate, hard	37	507
Conglomerate; little water	52	559
Gravel; water	5	564
Conglomerate, hard	16	580
Gravel; water	3	583
Conglomerate	8	591
(D-5-1)8dcc-1. Log by Eldon Comer. Alt. 4,555 ft.		
Gravel	3	3
Sand and gravel	4	7
Clay, light	13	20
Clay and gravel; some water	5	25
Clay, brown	12	37
Sand and gravel; some water	3	40
Clay, sandy, blue	39	79
Gravel; water	7	86
Clay	4	90
Clay and boulders; some water	9	99
Gravel, coarse; good water	9	108
Clay, yellow	34	142
Clay and gravel; water	11	153
Gravel; good water	21	174
Clay, yellow	4	178
Gravel; good water	12	190
Clay, yellow	5	195
Gravel; good water	12	207
Clay	8	215
Sand; water	19	234
Clay, sandy; trace of blue clay	6	240
(D-5-1)9dbb-1. Log from Mr. Meiling, City Recorder. Alt. 4,560 ft.		
Soil	1	1
Sand	31	32
Clay, blue	5	37
Sand and clay, streaked	20	57
Gravel and boulders	18	75
Clay, gravelly, and boulders	8	83
Gravel and boulders	15	98
Clay, gravelly	10	108
Gravel, sand, and clay	12	120
Clay, sandy	8	128
Sand and gravel	22	150
Clay, yellow	3	153
Gravel and boulders	14	167
Gravel, loose	3	170
Gravel	5	175
Clay, yellow	5	180
Gravel and boulders	6	186
Clay, yellow	8	194
Gravel	6	200
Clay	7	207
(D-5-1)10cab-1. Log by F. G. Farris. Alt. 4,662 ft.		
Soil	8	8
Soil, sandy	33	41
Sand, fine	7	48
Clay, sandy	15	63
Sand and gravel, fine	11	74
Clay	20	94
Clay and sand	8	102
Gravel and boulders	47	149
Clay, yellow	17	166
Clay and sand	43	209
Gravel and clay	36	245
Gravel; water	6	251
Clay	3	254
Gravel; water	18	272
Gravel and clay	12	284
Clay	23	307
Clay and gravel	15	322
Clay	18	340
Sand and clay	4	344
Clay	8	352
Sand and clay	6	358
Boulders and clay	20	378
Clay, yellow	2	380
Boulders and clay	2	382
Clay	2	384
Clay and sand	12	396
Clay	4	400
(D-5-1)15bbc-2. Log by Eldon Comer. Alt. 4,554 ft.		
Soil	4	4
Clay	28	32
Gravel	51	83
Clay and sand	12	95
Clay	40	135
Gravel; water	31	166
Clay and sand	13	179
Clay and gravel	17	196
Gravel; water	19	215
Clay	6	221
Gravel	12	233
Clay	16	249
Gravel; water	7	256
Clay and sand	20	276
Clay	31	307
Gravel; water	8	315
(D-5-1)19dac-2. Log by Eldon Comer. Alt. 4,498 ft.		
Soil	3	3
Clay	62	65
Gravel	25	90
Clay	48	138
Gravel	17	155
(D-5-1)23dca-1. Log by H. C. Comer. Alt. 4,557 ft.		
Soil	8	8
Clay and sand	86	94
Gravel	18	112
Clay and sand	62	174
Gravel; water	12	186
Clay and sand	89	275
Gravel; water	35	310
Sand	43	353
(D-5-1)36adb-2. Log by H. C. Comer. Alt. 4,500 ft.		
Soil	5	5
Clay	25	30
Gravel, pea-size	10	40
Clay	85	125
Sand	10	135
Gravel; water	23	158
(D-6-2)6acc-1. Log by Eldon Comer. Alt. 4,500 ft.		
Soil	3	3
Clay	101	104
Clay and sand	27	131
Gravel	16	147
(D-6-2)8acb-1. Log by Roscoe Moss Company. Alt. 4,543 ft.		
Clay and gravel fill	40	40
Clay, sandy, blue	40	80
Clay, blue	36	116
Sand and gravel	110	226
Clay, blue	72	298
Sand and gravel; clay streaks	177	475
Clay	7	482
Clay and gravel	10	492
(D-6-2)8acb-1.--Continued		
Sand and gravel	16	508
Clay, blue	51	559
Sand and gravel	59	618
Clay, blue	10	628
Sand and gravel	21	649
Clay, blue	33	682
Gravel and sand, tight	76	758
Clay, brown	26	784
Sand and gravel	120	904
Clay, sandy, brown	32	936
Clay, blue	28	964
Gravel and sand	28	992
Clay and gravel	12	1,004
Clay, blue	24	1,028
Sand and gravel; clay streaks	26	1,054
Clay, blue	31	1,085
Gravel, tight; clay streaks	75	1,160
Clay, brown	12	1,172
Sand and gravel	20	1,192
(D-6-2)17dda-4. Log by Eldon Comer. Alt. 4,545 ft.		
Soil	2	2
Clay	19	21
Sand and clay	42	63
Clay	20	83
Clay and sand	18	101
Gravel; water	21	122
(D-6-2)21cdc-2. Log by Eldon Comer. Alt. 4,530 ft.		
Soil	3	3
Clay; some sand	93	96
Gravel	63	159
Clay; some sand	82	241
Gravel; water	8	249
(D-6-2)34bca-5. Log by Eldon Comer. Alt. 4,531 ft.		
Gravel	4	4
Clay	17	21
Sand and clay	63	84
Sand	33	117
Gravel and sand; water	114	231
Gravel; water	73	304
(D-6-3)31cab-2. Log by G. Roberts. Alt. 4,650 ft.		
Fill	5	5
Fill and rock	15	20
Clay, sandy	20	40
Clay, sandy; little water	15	55
Sand; little water	45	100
Clay, gray	50	150
Clay, sandy, gray	5	155
Clay, gray	25	180
Clay, sandy, gray	20	200
Gravel; water	85	285
Clay and gravel; little sand	5	290
Clay and gravel; layers of boulders; water	60	350
Boulders, clay and gravel	10	360
Clay and gravel	10	370
Gravel	10	380
Gravel and clay	20	400
Clay and gravel	10	410
Clay, sandy	40	450
Clay, sandy; fine sand	5	455
Clay, sandy	5	460
Gravel and clay	10	470
Gravel	10	480
Gravel; little clay	5	485
Clay and gravel	5	490
Gravel	15	505
Gravel, fine	5	510
Gravel	10	520
Clay and gravel	5	525
Gravel, fine	5	530
Clay and gravel	10	540
Gravel	10	550
Clay and gravel	5	555
Gravel	5	560
Gravel, fine	10	570
Clay and boulders	11	581
(D-7-1)18dbb-1. Log by Ray Moss. Alt. 4,495 ft.		
Clay and boulders	22	22
Clay, gravel, and sand; some water	64	86
Sand and gravel; salt water	14	100
Clay and gravel	15	115
Sand and gravel; water	21	136

Table 4.--Selected drillers' logs of wells in northern Utah Valley - Continued

	Thickness	Depth
(D-7-2)1abd-1. Log by G. Roberts. Alt. 4,567 ft.		
Ash, cinder	5	5
Gravel and clay	11	16
Sand and clay	64	80
Hardpan	8	88
Sand and clay	85	173
Clay layers of hardpan	27	200
Clay rock	8	208
Gravel; water	22	230
Congomerate	23	253
Gravel; water	19	272
Conglomerate	28	300
Clay and gravel; stratified	12	312
Clay	116	428
Conglomerate, hard	9	437
Clay	12	449
Conglomerate	6	455
Clay	5	460
Conglomerate, hard	8	468
Clay	2	470
Conglomerate	7	477
Clay	125	602
Conglomerate, clay and gravel, volcanic-debris	18	620
Clay	80	700
(D-7-2)2cad-8. Log by George F. Hone. Alt. 4,524 ft.		
Soil	5	5
Gravel	35	40
Clay, blue	60	100
Sand	10	110
Clay	40	150
Sand, blue	5	155
Gravel; water	12	167
(D-7-2)3add-5. Log by Estella C. Jacobson. Alt. 4,519 ft.		
Soil	6	6
Gravel	24	30
Clay, blue	40	70
(D-7-2)3add-5.--Continued		
Sand, blue	20	90
Clay, blue	30	120
Gravel; water	65	185
Sand, blue	15	200
Clay, blue	25	225
Sand, blue	20	245
Clay	10	255
Sand	5	260
Gravel; water	15	275
(D-7-2)4cbc-1. Log by Conrad Maag. Alt. 4,490 ft.		
Soil	20	20
Sand	5	25
Clay	65	90
Sand	10	100
Clay	30	130
Sand	10	140
Clay	22	162
Gravel; water	22	184
Sand	16	200
Clay	35	235
Gravel; water	15	250
(D-7-2)4dbb-1. Log by Eldon Comer. Alt. 4,493 ft.		
Soil	3	3
Clay	97	100
Sand	18	118
Clay	16	134
Sand	12	146
Gravel; water	8	154
(D-7-2)12bad-1. Log by Eldon Comer. Alt. 4,526 ft.		
Soil	6	6
Gravel	25	31
Hardpan	5	36
Clay, blue	40	76
Quicksand	18	94
Clay, blue	74	168
(D-7-2)12bad-1.--Continued		
Clay and gravel	30	198
Gravel; water	12	210
(D-7-3)7dcc-1. Log by H. C. Comer. Alt. 4,517 ft.		
Clay, yellow	2	2
Clay, sandy, blue	63	65
Gravel, sand, and hardpan, sandy	45	110
Hardpan, limy, white	10	120
Clay, sand, yellow, and gravel	21	141
Clay, blue, and gravel	19	160
Conglomerate	8	168
Sand and gravel	37	205
Clay, brown	10	215
Clay, blue	15	230
Gravel, coarse and pea-size, and sand; water-flowing	40	270
(D-7-3)19aab-1. Log by Conrad Maag. Alt. 4,495 ft.		
Soil	10	10
Sand	90	100
Clay	25	125
Sand, fine, pink	100	225
Clay, yellow	25	250
Clay, blue	50	300
Gravel; water	5	305
(D-7-3)29dcb-1. Log by Christopherson and Simmons. Alt. 4,540 ft.		
Soil	10	10
Sand	3	13
Clay, blue	20	33
Gravel	5	38
Clay, blue	27	65
Gravel	1	66
Clay, blue	44	110
Sand	3	113
Clay, blue	17	130
Sand	6	136

Table 5.--Chemical analyses of ground water from selected wells and springs in northern Utah Valley

Well number	Date of collection	Depth of well (feet)	Depth of water-bearing material (feet)	Specific conductance (micromhos at 25°C)	Chemical analysis in parts per million: Silica (SiO_2)	Iron (total) (Fe)	Calcium (Ca)	Magnesium (Mg)	Na + K: Sodium (Na)	Na + K: Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids[1]	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	pH	Percent sodium	Sodium-adsorption ratio (SAR)	Analysis by[2]
(C-4-1)25cad-1	5-21-59	130	130	913	27	-	73	24	83		288	72	102	-	5.6	529	280	44	7.6	39	2.1	GS
35dcd-1	6-10-59	420	400-420	3,980	51	-	517	209	174		175	1,430	632	-	6.1	3,110	2,150	2,010	7.3	15	1.6	GS
(C-5-1)12add-1	11-27-57	307	200-307	477	11	-	40	20	27		168	24	54	-	2.9	262	183	45	7.1	24	.9	GS
12bab-5	6-10-59	90	90	1,900	20	-	212	82	65		243	263	376	-	3.6	1,140	864	665	7.8	14	1.0	GS
13bcb-1	4-17-58	250	220-250	330	16	-	35	14	10		136	23	21	-	.8	187	143	31	7.9	14	.4	GS
14bcc-1	4-24-58	195	180-195	2,760	27	-	263	106	134		156	322	640	-	20	1,590	1,090	962	7.2	21	1.8	GS
14caa-1	5- 5-58	250	240-250	1,040	34	-	58	28	127		206	110	176	-	4.8	639	260	91	7.8	51	3.5	GS
23bda-1	5- 5-58	106	90-106	2,300	26	-	182	55	213		233	438	352	-	.6	1,380	682	491	6.9	40	3.6	GS
24dcd-1	6- 5-57	90	90	-	36	-	128	44	156	-	255	266	218	-	.0	3/1,060	-	-	7.5	40	3.0	UC
24ddb-1	6- 5-57	90	90	-	19	-	31	13	19	-	161	16	14	-	.0	3/ 205	-	-	8.1	28	.8	UC
25abc-1	4-21-58	90	80-90	1,180	-	-	100	31	-		206	167	-	-	-	-	378	209	7.4	-	-	GS
25abc-3	4-21-58	198	190-198	2,080	34	-	180	51	204		330	386	302	-	1.7	1,320	355	385	7.0	40	3.5	GS
25bad-1	4-21-58	100	90-100	2,080	-	-	167	54	-		328	385	-	-	-	-	636	367	7.2	-	-	GS
25bbc-1	6- 4-58	-	Spring	2,230	28	-	191	52	235		320	441	338	-	2.5	1,440	688	426	7.3	43	3.9	GS
25cba-1	4-25-58	100	90-100	2,240	33	-	192	51	277		322	422	338	-	1.4	1,420	688	424	7.7	42	3.8	GS
25cbb-1	8- 9-55	147	130-147	-	27	2.8	192	50	246		339	448	338	-	.0	3/1,568	668	-	7.2	44	4.1	UC
25cbd-1	4-25-58	93	80-93	2,280	-	-	192	53	-		352	420	-	-	-	-	696	407	7.2	-	-	GS
25ccb-2	4-29-58	147	130-147	2,230	30	-	188	52	229		316	426	338	-	1.1	1,420	682	423	7.3	42	3.8	GS
25ccc-4	5-28-53	105	90-105	-	21	.29	179	55	229		317	413	343	1.8	.5	3/1,506	676	-	7.1	43	3.8	UC
25cdc	5-27-58	-	Spring	2,140	27	-	180	49	232		320	425	318	-	1.3	1,390	650	388	7.3	-	-	GS
26bdb-1	4-29-58	500	300-400	1,990	29	-	158	52	197		310	328	312	-	1.4	1,230	608	354	7.2	41	3.5	GS
(C-6-1)1aab-1	5- 4-40	-	Spring	-	25	4/6.0	124	61	202	12	-	509	440	-	-	3/1,668	560	460	7.8	-	-	SL
1aba-1	4-15-40	-	Spring	-	17	4/6.0	174	71	214	13	-	437	378	-	-	3/1,546	726	496	8.0	-	-	SL
1ada-1	5- 4-40	-	Spring	-	36	4/8.0	240	54	234	11	-	743	320	-	-	3/1,929	821	732	7.8	-	-	SL
(D-4-1)36cab-1	6-11-58	500	320-490	619	13	-	68	29	21		291	72	10	-	11	367	290	51	7.5	14	.5	GS
36cbd-1	5- 8-58	40	30-40	591	11	-	92	23	8.3		259	103	8.8	-	9.8	383	322	110	8.2	5.3	.2	GS
(D-4-2)7dba	2- 51	-	Spring	-	12	.03	18	2.9	8.3		65	3.7	3.0	.3	0	3/ 86	56	-	7.8	23	4.7	DH
7db	5- 2-39	-	Spring	-	8.0	0	64	15	10		190	26	6.0	-	-	3/ 256	220	-	-	8.5	.3	DH
31acd-1	8-13-58	591	387-591	494	8.4	-	66	21	9.2		215	79	7.5	-	2.0	299	250	74	7.6	7.0	.3	GS
31bda-1	11-24-58	612	375-608	446	9.9	-	59	21	5.6		207	64	4.0	-	1.7	267	231	61	7.5	5	.2	GS
(D-5-1)4bcc-1	7- 1-58	655	260-655	468	24	-	42	18	28		188	16	49	-	1.8	271	180	26	7.9	25	.9	GS
4cbc-1	7- 1-58	100	90-100	902	13	-	98	25	73		391	129	35	-	2.9	3/ 568	348	27	7.5	31	1.7	GS
5bbc-1	5- 4-54	293	210-293	-	9.0	.4	147	29	72		306	115	204	.1	7.8	874	448	-	7.6	24	1.4	UC
6daa-1	5-28-58	192	180-192	1,130	30	-	110	45	49		236	70	207	-	8.2	635	458	264	7.6	19	1.0	GS
8aaa-3	6-30-58	710	-	397	22	-	39	16	20		172	10	37	-	1.8	231	162	21	7.6	21	.7	GS
9dbb-1	7-28-52	207	-	-	18	.2	43	20	22		5/ 157	48	39	2.5	5.6	274	190	23	8.2	20	.7	DH
10bad-2	8-26-58	278	165-278	577	11	-	67	26	22		285	67	7.5	-	11	352	274	40	7.5	15	.6	GS
16bbb-6	11-26-57	145	135-145	514	11	-	54	24	23		263	47	10	-	7.5	306	234	18	7.2	18	.6	GS
17aab-8	11-27-57	120	110-120	550	7.3	-	59	25	27		276	54	13	-	6.0	327	248	21	7.4	19	.7	GS
18cab-2	11-27-57	618	300-618	361	10	-	26	14	28		163	8.0	29	-	.9	196	122	0	7.3	33	1.1	GS
19ccc-1	12- 5-57	284	140-151	254	9.2	-	29	11	6.8		142	5.0	5.5	-	1.3	138	116	0	7.5	11	.3	GS
20aba-6	4-29-58	321	-	218	13	-	23	8.5	9.5		121	5.0	6.0	-	1.1	126	93	0	8.0	18	.4	GS
21dba-2	1- 9-58	63	50-63	718	14	-	77	33	28		270	110	31	-	7.4	433	325	104	8.0	16	.7	GS
21dba-3	1- 9-58	185	175-185	389	11	-	43	18	9.6		172	39	11	-	4.7	221	180	39	7.7	10	.3	GS
21dda-2	12-18-57	189	179-189	357	11	-	41	17	7.8		174	30	9.5	-	3.4	206	173	30	7.2	8.7	.3	GS
23bac-1	12-10-57	145	135-145	399	9.8	-	46	20	7.4		186	41	11	-	3.6	230	198	45	7.3	7.5	.2	GS
23bdb-2	11-26-57	270	260-270	398	10	-	46	20	5.0		178	42	10	-	4.0	225	196	50	7.3	5.3	.2	GS
23cab-2	7-30-49	255	245-255	360	-	-	42	15	4.6	2.0	6/ 171	36	8.2	-	.5	-	-	-	-	7.0	.2	SU
29bab-2	5- 5-58	25	25	370	24	-	33	22	11		189	14	19	-	.2	216	172	17	7.3	12	.4	GS
35ada-1	12-10-57	125	115-125	896	9.1	-	88	44	37		230	184	70	-	3.3	548	402	213	7.1	17	.8	GS
(D-5-2)7aad-1	8-13-58	415	95-415	1,160	12	-	120	61	55		304	311	63	-	12	783	552	303	7.9	18	1.0	GS
8ccd-1	6- 8-55	360	229-358	-	10	.5	122	53	77		314	323	60	.5	15	3/ 851	524	268	7.5	24	15	UC
16dbd-1	12- 3-57	-	Spring	667	4.7	-	86	34	9.2		332	86	7.8	-	1.8	392	354	82	7.1	5.4	.2	GS
19aca-2	6- 3-58	330	300-330	403	11	-	47	20	6.0		180	40	16	-	4.1	233	202	54	8.0	6.0	.2	GS
21bcd-1	8-28-58	445	187-445	622	10	-	73	31	19		286	84	17	-	4.7	380	308	73	7.2	12	.5	GS
27aba-1	12- 3-57	-	Spring	327	3.5	-	43	13	6.0		180	20	2.5	-	4.8	182	162	15	7.2	7.5	.2	GS
29abb-1	5-28-58	70	70	664	10	-	87	29	18		336	61	13	-	21	404	335	59	7.6	11	.5	GS
29bda-4	5- 8-58	110	100-110	455	8.9	-	58	21	10		225	47	10	-	5.0	271	229	44	7.8	9	.3	GS
29cab-2	12-10-57	150	140-150	559	5.2	-	51	21	23		281	10	12	-	8.4	269	274	45	7.1	18	.7	GS
32acb-1	7- 8-54	287	-	412	20	.05	46	19	13	2.5	230	24	8	.1	.2	246	193	4	7.8	14	.5	GS
32bdb-3	7- 8-54	177	161-177	602	13	.38	76	29	13	.5	280	80	20	.2	.2	370	308	79	7.8	8.6	.3	GS
33acd-1	12-11-55	400	-	516	10	.76	64	26	9.4		271	31	17	.0	6.2	3/ 265	298	54	7.7	7.3	.3	UC
36dbb	10-23-53	-	Spring	-	13	.09	45	24	11		242	12	14	.04	.9	3/ 246	210	12	7.9	10	.3	UC

Table 5.--Chemical analyses of ground water from selected wells and springs in northern Utah Valley - Continued

Well number	Date of collection	Depth of well (feet)	Depth of water-bearing material (feet)	Specific conductance (micromhos at 25°C)	Chemical analysis in parts per million: Silica (SiO_2)	Iron (total) (Fe)	Calcium (Ca)	Magnesium (Mg)	Na + K: Sodium (Na)	Na + K: Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids 1/	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	pH	Percent sodium	Sodium-adsorption ratio (SAR)	Analysis by 2/
(D-6-1)29dab-1	4-24-58	165	165	436	41	-	29	15	44		263	3	7.5	-	.2	269	134	0	7.6	42	1.4	GS
(D-6-2)5acc-4	6-29-55	1,063	560-1,063	-	11	.24	29	8.9	19		146	21	6.0	.25	.0	3/ 157	110	-	7.9	28	.8	UC
6acc-1	12-10-57	147	147	787	12	-	65	27	69		326	62	64	-	.7	460	272	5	7.2	27	1.8	GS
8bcd-4	12- 7-48	830	748-830	-	15	.3	25	9.4	7.8		168	8.2	14	.25	.0	3/ 141	102	-	8.0	15	.3	UE
18aba-2	4-16-58	128	128	564	15	-	67	23	20		277	52	14	-	4.3	331	260	33	7.5	14	.5	GS
18add-2	4-16-58	131	131	572	16	-	67	23	21		281	54	14	-	4.7	338	264	34	7.6	15	.6	GS
21cca-4	4-16-58	111	88-111	561	16	-	71	21	20		278	60	10	-	2.7	338	262	34	7.5	15	.6	GS
21cdc-2	4-16-58	249	-	358	18	-	36	14	17		176	21	12	-	.7	206	146	2	7.8	20	.6	GS
26dcd-1	7- 1-58	297	270-297	682	26	-	86	24	34		352	70	16	-	.3	429	311	22	7.7	19	.8	GS
(D-6-3)31cab-2	8-20-56	581	-	630	4.8	-	34	34	62		183	73	94	.8	.3	392	224	-	8.2	38	1.8	SE
(D-7-1)5ccb-1	9-11-58	-	Spring	2,570	15	-	144	58	342		348	325	510	-	.8	1,570	600	315	6.9	55	6.1	GS
8bbc-1	9-11-58	-	Spring	2,430	16	-	88	59	342		196	314	510	-	.8	1,430	464	303	7.5	62	6.9	GS
18dbb-1	5-27-58	136	86-136	10,400	26	-	180	204	1,720		703	2,240	1,520	-	.6	6,240	1,290	714	7.4	74	21	GS
(D-7-2)1abd-1	10-18-58	700	210-272	620	12	-	79	27	18		296	71	22	-	1.5	376	310	67	7.6	11	.4	GS
4cbb-2	5- 5-58	190	180-190	531	19	-	63	23	20		271	47	16	-	.1	321	251	29	7.5	14	.5	GS
5dba-1	5- 1-58	277	-	509	18	-	57	20	24		278	23	18	-	.3	297	226	0	7.8	19	.7	GS
(D-7-3)32bcc-1	2-11-59	414	389-409	403	15	-	43	15	24		246	3.1	10	-	1.6	233	168	0	8.2	24	.8	GS
33baa-6	2-11-59	138	-	542	11	-	71	22	15		286	43	13	-	2.4	318	267	32	7.8	11	.4	GS
35cdb-1	12- 4-57	-	Spring	388	21	-	50	16	9.5		230	15	3.5	-	3.2	231	191	2.0	7.7	9.8	.3	GS

1/ Dissolved solids are calaculated from determined constituents except as noted.
2/ Analysis by: DH, Utah State Department of Health.
GS, U.S. Geological Survey.
SE, Smith-Emery Co., Los Angeles, Calif.
SL, City Chemist, Salt Lake City, Utah.
SU, Utah State University, Logan, Utah.
UC, Utah State Chemist, Salt Lake City, Utah.
UE, Utility Engineers, Salt Lake City, Utah.
3/ Residue on evaporation.
4/ Total Fe and Al_2O_3 (Iron and aluminum oxide).
5/ Includes equivalent of 1.6 ppm CO_3.
6/ Includes equivalent of 5.1 ppm CO_3.

Table 6.--Chemical analyses of surface water in northern Utah Valley

Location	Date of collection	Temperature (°F)	Specific conductance (micromhos per cm at 25°C)	Chemical analysis in parts per million: Silica (SiO_2)	Iron (total) (Fe)	Calcium (Ca)	Magnesium (Mg)	Na + K: Sodium (Na)	Na + K: Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids 1/	Hardness as $CaCO_3$: Calcium, magnesium	Hardness as $CaCO_3$: Noncarbonate	pH	Percent sodium	Sodium-adsorption ratio (SAR)	Analysis by 2/
Utah Lake	1883	-	-	10	-	56	19	18		-	131	12	-	-	306	-	-	-	-	-	GSB
Do.																					
at outlet	1899	-	-	-	-	68	14	234		-	237	317	-	-	3/892	-	-	-	-	-	BS
Utah Lake	1903	-	-	-	-	80	92	247	30	266	365	336	-	-	3/1,420	-	-	-	-	-	BS
Do.																					
2 mi. east of Saratoga Resort	5-18-04	65	-	23	-	68	74	207	26	206	333	289	-	-	3/1,250	-	-	-	-	-	BS
1½ mi. offshore from Provo	8-31-04	-	-	28	-	67	86	230	22	194	378	337	-	-	3/1,350	-	-	-	-	-	BS
1 mi. west of Geneva Resort	12-20-32	-	-	25	8.7	75	33	32	9.3	360	123	65	-	0.0	3/549	322	-	-	-	-	SL
at outlet	12-30-32	-	-	17	1.5	190	91	99	16	404	724	653	-	.1	3/2,350	851	-	-	-	-	SL
at Pelican Point	10-27-34	-	-	9.0	8.0	103	262	908	237	227	1,370	1,210	-	-	3/5,040	1,340	-	-	-	-	SL
at Lincoln Point	10-31-34	-	-	26	4.5	410	124	1,080	457	661	790	2,210	-	-	3/5,710	1,530	-	-	-	-	SL
at outlet	7-31-40	-	-	16	4	77	99	211	46	202	443	376	-	-	3/1,540	600	-	8.2	-	-	SL
Do.	1-27-56	-	2,270	34	.34	148	93	221	19	342	469	333	0.8	3.5	3/1,520	752	472	7.8	38	3.5	GS
Do.	4- 2-56	-	1,670	18	.49	98	62	168	14	242	309	245	.5	3.8	3/1,060	500	301	7.8	41	3.3	GS
Do.	6- 5-56	-	1,850	16	.65	70	72	215		254	333	270	-	3.5	1,100	472	264	7.6	50	-	GS
Do.	8- 3-56	-	2,100	20	.62	71	78	247	24	226	384	345	.9	3.2	3/1,330	500	315	7.4	50	4.8	GS
Do.	10- 1-56	-	2,370	20	.06	64	91	315	27	238	466	400	.9	1.8	3/1,510	534	339	8.1	55	5.9	GS
Do.	11-29-56	-	2,360	20	-	74	93	310		365	459	385	-	2.8	1,470	566	349	7.7	54	5.7	GS
Do.	2- 7-57	-	1,500	12	-	71	60	163		266	263	200	-	1.6	902	422	204	7.3	46	3.5	GS
Do.	4- 2-57	-	1,980	24	-	104	96	200		366	380	278	-	5.1	1,270	656	356	7.7	40	3.4	GS
Do.	5- 7-57	-	1,590	13	-	75	58	175		245	272	228	-	3.1	945	428	227	7.6	47	3.7	GS
Do.	7- 1-57	-	1,760	15	-	91	57	204		240	318	265	-	3.2	1,070	460	263	7.0	49	4.1	GS
Do.	9- 4-57	-	1,810	18	-	59	69	248		205	372	292	-	1.3	1,160	428	260	7.3	56	5.2	GS
Do.	10-31-57	-	1,750	16	-	67	66	218		236	324	270	-	3.1	1,080	440	246	7.6	52	4.5	GS
Do.	12- 3-57	-	1,620	19	-	70	63	192		278	284	230	-	4.6	1,000	434	206	7.4	49	4.0	GS
Do.	2-18-58	-	1,280	14	.03	55	51	137		211	224	165	-	7.1	757	346	173	7.6	46	3.2	GS
Do.	4- 7-58	-	1,500	14	-	68	58	158		238	248	209	-	7.0	879	410	215	7.4	46	3.4	GS
Do.	5- 5-58	-	1,500	15	-	69	56	170		243	260	213	-	3.0	905	402	203	7.5	48	3.7	GS
Do.	6- 4-58	66	1,540	18	-	63	58	186		4/245	269	226	-	2.8	943	402	201	8.4	45	3.5	GS
1½ mi. south of outlet	6- 4-58	66	1,540	18	-	63	58	186		245	269	226	-	2.8	943	398	197	8.2	-	-	GS
at outlet	6-10-58	-	1,530	16	.08	65	58	160	16	245	262	215	.6	3.0	916	402	201	8.2	45	3.5	GS
Do.	11- 4-58	-	1,790	21	5/.00	56	71	213	19	236	324	280	.8	1.0	3/1,130	432	238	8.0	50	4.5	GS
Hobble Creek																					
3½ mi. east of Springville	12- 4-57	36	476	21	-	71	13	14		234	54	7.5	-	2.3	298	230	38	7.5	-	-	GS
at Springville	8-18-53	-	520	-	-	62	21	15	3.5	236	62	13	-	-	3/322	-	-	-	12	-	BR
Do.	6- 2-55	-	679	-	-	87	23	17	2.7	297	98	19	-	-	3/433	-	-	-	10	-	BR
Spring Creek																					
at Springville	8-18-53	-	809	-	-	104	32	27	3.9	297	163	30	-	-	3/549	-	-	-	13	-	BR
Do.	6- 2-55	-	798	-	-	96	28	23	5.9	297	145	25	-	-	3/531	-	-	-	12	-	BR
Provo River																					
at Provo Riverside Motel	4-27-49	-	-	11	-	57	17	12		192	62	11	-	1.7	266	212	-	-	11	-	GS
Battle Creek																					
at mouth of canyon	12- 3-57	45	327	3.5	-	43	13	6.0		180	20	2.5	-	4.8	182	162	15	7.2	-	-	GS
at Pleasant Grove	6- 6-49	-	420	-	-	50	14	5.1	.8	190	52	3.9	-	.4	-	182	-	-	6	-	SU
Grove Creek																					
at mouth of canyon	12- 3-57	35	428	7.0	-	55	19	10		226	40	5.0	-	4.3	251	215	30	7.1	-	-	GS
American Fork River																					
at mouth of canyon	7-30-49	-	390	-	-	51	17	3.0	1.2	170	54	3.2	-	.2	-	197	-	-	4	-	SU
Do.	12- 5-57	41	531	7.9	-	77	22	5.3		208	113	3.5	-	.4	331	282	111	7.3	-	-	GS
Dry Creek																					
at Alpine	12- 2-57	38	240	18	-	33	5.6	8.3		129	13	3.0	-	.7	145	106	0	7.0	-	-	GS
½ mi. north of Lehi	12- 2-57	40	696	16	-	60	47	26		362	72	14	-	11	424	343	46	7.2	-	-	GS
Jordan River																					
at Utah Lake	2- 6-57	-	-	32	5/.24	177	95	-		280	488	390	-	4.2	3/1,810	831	-	8.1	-	-	UC
2½ mi. west of Lehi	6- 3-49	-	1,530	-	-	65	53	187	25	264	267	228	-	.9	-	380	-	-	50	-	SU
at Jordan Narrows	7- 2-40	-	-	22	3	75	67	145	14	257	370	304	-	-	3/1,250	465	-	8.2	-	-	SL
Do.	2- 6-57	-	-	31	5/.2	112	71	-		235	385	320	-	3.8	3/1,430	569	-	8.2	-	-	UC

1/ Dissolved solids are calculated from determined constituents except as noted.
2/ Analysis by: BR, U.S. Bureau of Reclamation.
BS, U.S. Department of Agriculture, Bureau of Soils.
GS, U.S. Geological Survey.
GSB, U.S. Geol. Survey Bull. 9.
SL, City Chemist, Salt Lake City, Utah.
SU, Utah State University, Logan, Utah.
UC, Utah State Chemist, Salt Lake City, Utah.
3/ Residue on evaporation.
4/ Includes equivalent parts per million of carbonate (CO_3).
5/ Dissolved iron (Fe).

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
AND
UTAH STATE ENGINEER

BASIC-DATA REPORT NUMBER 2
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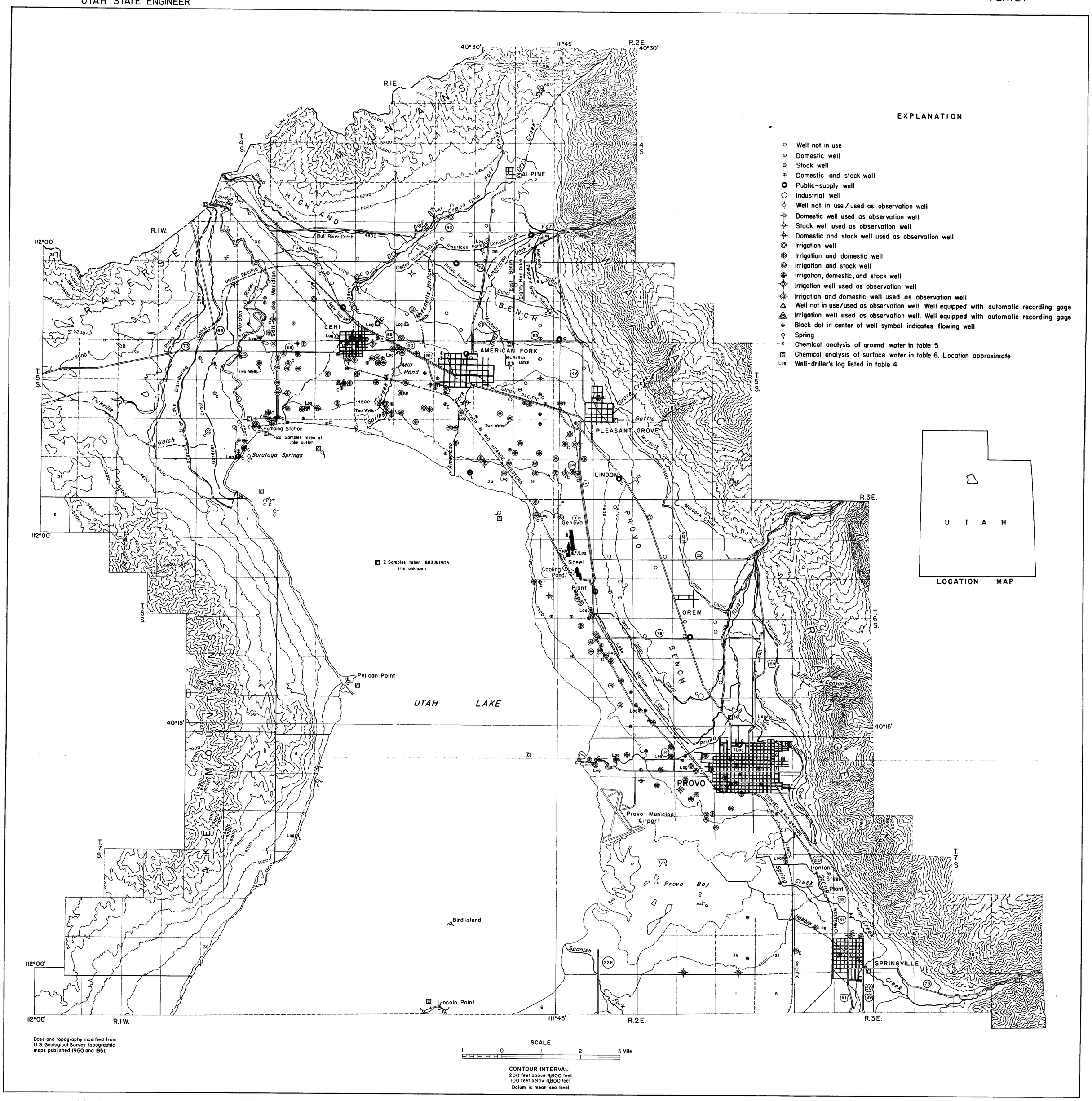
PLATE I



Base and topography modified from U. S. Geological Survey topographic maps published 1950 and 1951.

SCALE
1 0 1 2 3 Mile

CONTOUR INTERVAL
200 feet above 4,800 feet
100 feet below 4,800 feet
Datum is mean sea level

MAP OF NORTHERN UTAH VALLEY SHOWING THE LOCATION OF OBSERVATION WELLS; WELLS AND SITES SELECTED FOR WATER SAMPLING; AND SELECTED DOMESTIC, INDUSTRIAL, IRRIGATION, PUBLIC-SUPPLY, AND STOCK WELLS

By Seymour Subitzky