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GEOLOGICAL SURVEY
Ground Water Branch

DATA ON WATER WELLS IN THE UPPER MOJAVE VALLEY AREA, SAN BERNARDINO COUNTY, CALIFORNIA

By

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DATA ON WATER WELLS IN THE UPPER MOJAVE VALLEY AREA, SAN BERNARDINO COUNTY, CALIFORNIA

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Purpose and Scope of the Work and Report

The data presented in this tabulation were collected by the United States Geological Survey in connection with an investigation of water wells and general hydrologic conditions throughout much of the desert region of southern California. The study has been financed in part by Federal funds for Arid Regions studies, and in part by cooperation with the California Department of Water Resources.

The desert regions of California are characteristically regions of barren mountain ranges and isolated hills surrounding broad valleys or basins which are underlain by alluvial debris derived from the mountains and hills. These basins generally contain ground water, having a wide range in chemical quality, which could be and in some areas already has been developed for beneficial use.

The general objective of the cooperative investigation is to collect and to tabulate all available hydrologic data for the individual desert basins in order to provide public agencies and the general public with data for use in planning water utilization and development works, and for use in possible subsequent ground-water investigations.

Accordingly, the scope of the work carried out by the Geological Survey in each area has included: (1) Very brief reconnaissance mapping of major geologic features to define the extent and general character of the deposits that contain the ground-water bodies; (2) visiting and examining practically all the water wells in the area; determining their locations in relation to geographic and cultural features and the public land net, wherever possible; and recording well depths and sizes, types and capacities of installed equipment, uses of the water, and other pertinent information available at the well site; (3) measurement of the depth to the water surface below an established measuring point at or near the land surface; (4) selection of representative wells to be measured periodically in order to detect and record changes of water levels; and (5) collection and assembly of well records, including well logs, water-level measurements, and chemical analyses.

The work has been carried on by the U. S. Department of the Interior, Geological Survey, under the general supervision of G. F. Worts, Jr., district geologist in charge of ground-water investigations in California, and under the immediate supervision of Fred Kunkel, geologist in charge of the Long Beach subdistrict office. The field work was carried on intermittently between February 1956 and November 1957 from the southern California subdistrict office of the Ground Water Branch at Long Beach by R. B. Bartlett, M. A. Pistrang, J. W. Parra, and the authors.

Location and General Features of the Area

The Upper Mojave Valley area as described in this report and shown on plate 1 covers about 850 square miles and in general includes, after Thompson (1929, pls. 7 and 22), the Upper Mojave, El Mirage, and Fifteenmile Valleys, and part of the headwater region of the Mojave River. In addition, according to local usage and to Thompson (1929), the area includes also Sidewinder, Fairview, Apple, and Victor Valleys.

The area of this study lies in the southwestern part of the Mojave desert region between 117°00' and 117°40' west longitude and about 34°17' and 34°45' north latitude. The eastern boundary corresponds to the western edge of Lucerne Valley, after Riley (1956); the western boundary corresponds approximately to the eastern edge of Antelope Valley at the Los Angeles-San Bernardino County line. The southern boundary of the area is along a line at the base of T. 3 N., and lies in the mountainous area south of the area of potential well development. The northern boundary is an irregular line that, in general, lies south of the Middle Mojave Valley of Thompson (1929).

The area is shown on all or parts of the following U. S. Geological Survey topographic quadrangle maps: Adobe Mountain, Shadow Mountains, Black Butte, Shadow Mountains SE, Mescal Creek, Phelan, San Antonio Peak, Telegraph Peak, Victorville NW, Adelanto, Victorville, Baldy Mesa, Hesperia, Cajon, and Cedar Springs, all at a scale of 1:24,000; Apple Valley, Lake Arrowhead, Shadow Mountains, San Antonio, Hesperia, and Deep Creek, at a scale of 1:62,500; and Barstow, at a scale of 1:125,000.

Access to the area is provided by U. S. Highways 66, 91, and 395, State Highways 18 and 138, and numerous other paved and dirt roads.

Geographically the area consists principally of broad alluvial fans and gently sloping alluvial plains built out from the northern slopes of the San Bernardino and San Gabriel Mountains. In the northwestern corner of the area the Shadow Mountains rise above the alluvial plain, and along the eastern side the Granite Mountains, Sidewinder Mountain, Bell Mountain, and other isolated peaks rise to considerable heights above the valley floor.

The smaller valleys that make up the larger unit called the Upper Mojave Valley area do not have definite geologic or hydrologic boundaries, but correspond rather to cultural units centered about the areas as shown on plate 1.

Geologic and Hydrologic Features of the Area

The geologic units in the Upper Mojave Valley area can be grouped in two broad categories: consolidated rocks and unconsolidated deposits. The consolidated rocks as mapped (pl. 1) include old metamorphic, volcanic, and crystalline rocks of pre-Tertiary age that form the basement complex (map symbol bc). For the most part these rocks are impervious and, except for minor amounts of water contained in cracks and weathered zones, they are virtually non-water-bearing.

Consolidated sedimentary rocks of Tertiary age (Tp) occur in the southwestern part of the Upper Mojave Valley area. These rocks are part of the Punchbowl formation mapped by Noble (1953). They consist of coarse conglomerate, light-gray to tan arkosic conglomeratic sandstone and heterogeneous cobbles, and buff siltstone containing small heterogeneous pebbles. The hydrologic character of these rocks is not known, but on the basis of their appearance they are judged to be poorly permeable and virtually non-water-bearing.

The Harold formation (Qh) mapped by Noble (1953) also occurs in the southwestern part of the area. This unit is poorly consolidated and, in general, is a grayish sandy siltstone containing lenses of conglomerate, local lime-cemented beds, and occasional beds of brown, red, or green shale and arkosic sandstone. The Harold formation also appears to be poorly water bearing.

Unconsolidated alluvial deposits of Quaternary age underlie most of the desert floor. These unconsolidated deposits are porous, highly permeable, and store and transmit ground water. They also yield significant quantities of water to wells.

The Shoemaker gravel (Qs) (Noble, 1954) overlies the Harold formation and consists of poorly sorted gravel, sand, and silt and local boulder beds. Locally it is poorly consolidated but generally it is unconsolidated. The attitude of this unit suggests that it extends beneath the younger deposits in the valley and would yield water freely to wells where it is saturated.

The older fan alluvium of late Pleistocene age (Qofa) consists of compact arkosic gravel, sand, and silt. The deposits are weathered and locally the feldspars have been altered to clay. Near the mountains the unit contains large, angular boulders, but beneath the valleys it is finer grained and better sorted. The deposit, where saturated, includes the principal aquifers of the area.

Old lake deposits of late Pleistocene and Recent(?) age (Qol) are locally interbedded with the older alluvium. These deposits are silt, clay, fresh-water limestone, and lime-cemented gravel, sand, and silt. In some localities wave-cut shoreline terraces and old gravel and sand beach bars are preserved.

Underlying the flood plain of the Mojave River is an alluvial deposit of Recent age (Qra), composed mainly of fine gravel and sand. Where saturated it yields water copiously to wells. The active channel of the Mojave River (Qrc) consists mainly of highly permeable sand which transmits a large seepage loss to the main water body whenever runoff occurs.

The younger fan alluvium of Recent age (Qyfa) is mostly gravel, sand, and silt and overlies the older units. These deposits generally are poorly sorted and poorly permeable, are usually above the water table, and are believed to yield little water to wells.

Playa-lake deposits of Recent age (Qyl) occur at the base level of some minor drainages. They consist principally of clay and minor amounts of sand.

Unconsolidated coarse to fine dune sand (Qds) occurs in some of the valleys. These dunes are, in part at least, actively drifting; locally some small interdune playas are included in the area shown as dune sand on plate 1.

The principal stream in the area is the Mojave River, which carries surface runoff northward from the San Bernardino Mountains and out of the area through the "upper narrows," a canyon cut in bedrock near Victorville. The amount of flow in the river varied considerably during the course of this investigation (February 1956 to November 1957), depending upon the time of year. The flow of the river at the upper narrows near Victorville was measured at a gage operated by the Geological Survey during the periods March 1899 to July 1906 and November 1930 to September 1936.

Of the approximately 850 square miles of the Upper Mojave Valley area about 200 square miles is underlain by consolidated rocks where wells have not been drilled. In the remaining 650 square miles 1,345 wells were canvassed during the investigation. Of these, 1,212 wells are described in table 1 and are shown on plate 1; the others are destroyed or dry wells for which few or no data are available, and these are not included in table 1.

Table 2 lists cross indexes of Geological Survey well numbers and the numbers previously given to the same wells by other agencies.

Table 3 is a list of published references that contain water-level measurements in wells in the Upper Mojave Valley area. Table 4 lists the wells for which periodic water-level measurements are available. Table 5 lists all available water-level measurements that have not been published. The complete water-level records for seven key wells selected by the Geological Survey to indicate ground-water conditions in various parts of the area also are listed in table 5.

Table 6 contains drillers' logs of 148 wells, which are all that were available in the Upper Mojave Valley area.

Table 7 lists 92 chemical analyses of water from 75 wells. The analyses were made by the agencies shown in the table.

Previous Work and Acknowledgments

Data on ground water in the Upper Mojave Valley area are contained in several U. S. Geological Survey water-supply papers (table 3), California Department of Engineering Bulletin 5 (1918), California Division of Water Resources Bulletin 47 (1934), San Bernardino County Flood Control District Hydrologic and Climatic Data volumes 2 and 3 (1951 and 1954), and an unpublished report by the U. S. Bureau of Reclamation.

Part of the Upper Mojave Valley area is shown on the geologic map of the Barstow quadrangle by O. E. Bowen, Jr. (1954).

The writers wish to express their appreciation for the cooperation given by the many ranchers, well owners, drillers, and other persons visited during the investigation, and for the assistance and information provided by several public agencies.

The California Department of Water Resources and the San Bernardino County Flood Control District provided access to all the pertinent information in their files, including numerous well logs, water-level records, and chemical analyses. The U. S. Department of Agriculture and the U. S. Bureau of Reclamation also provided some chemical analyses, water-level records, and other miscellaneous data. The cooperation and assistance given by these people and agencies contributed materially to the completeness of the data presented in this report, and are most gratefully acknowledged.

Well-Numbering System

The well-numbering system used in the Upper Mojave Valley area conforms to that used by the Geological Survey in California since 1940. It has been adopted as official by the California Department of Water Resources and by the California Water Pollution Control Board for use throughout the State.

Wells are assigned numbers according to their locations in the rectangular system for the subdivision of public land. For example, in the number 3/4-1K2, which was assigned to the irrigation well of M. S. Emery, the part of the number preceding the bar indicates the township (T. 3 N.), the part between the bar and the hyphen is the range (R. 4 W.), the number between the hyphen and the letter indicates the section (sec. 1), and the letter indicates the 40-acre subdivision of the section as shown in the accompanying diagram.

D	C	B	A
E	F	G	H
	1		
M	L	K	J
N	P	Q	R

Within the 40-acre tract the wells are numbered serially as indicated by the final digit. Thus, well 3/4-1K2 is the second well to be listed in the $NW\frac{1}{4}SE\frac{1}{4}$ sec. 1. Because the area lies entirely in the northwest quadrant of the San Bernardino base and meridian lines, the foregoing abbreviation of township and range numbers is sufficient.

For some wells the letter following the section number is designated X in place of one of the 16 letters designating the 40-acre tract. This symbol indicates that the well has been field located and is accurately plotted with respect to its position on the map, but that the control for the public-land net is too poor to warrant assigning a more accurate location number.

For well numbers where a dash has been substituted for the letter designating the 40-acre tract, the dash indicates that the well is plotted from unverified location descriptions; the indicated sites of such wells were visited but no evidence of a well could be found.

References

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California Department of Public Works, Water Resources Division, 1934, Mojave River investigation: Bull. 47, 249 p. (mimeographed).

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Thompson, D. G., 1929, The Mohave Desert region, California: U. S. Geol. Survey Water-Supply Paper 578, p. 371-423.

U. S. Geological Survey, 1940, Water levels and artesian pressure in observation wells in the United States: Water-Supply Paper 886.

_____ 1941-57, Water levels and artesian pressure(s) in observation wells in the United States, part 6, Southwestern United States: Water-Supply Papers 911, 941, 949, 991, 1021, 1028, 1076, 1101, 1131, 1161, 1170, 1196, 1226, 1270, 1326, 1409; reports for 1956 and 1957 in preparation.

U. S. Bureau of Reclamation, 1952, Report on Victor Project, California: 41 p. (mimeographed).

Table 1.- Descriptions of wells in the Upper Mojave Valley area, San Bernardino County, Calif.

Source of data and other numbers: The source of data on each line is indicated by the following symbols: GS observations and measurements made by the Geological Survey on the dates indicated during the 1956-57 investigation as well as information reported to the Geological Survey by owners, drillers, or others; CDE California Department of Engineering (1918), and also republished in Thompson (1929); DGT from Thompson (1929); U from California Department of Public Works (1934), or from Geological Survey Water-Supply Papers given in table 3A; BR from unpublished U. S. Bureau of Reclamation records at Boulder City, Nev.; F from the San Bernardino County Flood Control District. A number following the letters is the well number used in the report or by the agency and is given only where different from Geological Survey numbers.

Date of observation: Data for each well are presented in reverse chronological order, with the most recent information summarized on the top line, opposite the well number. Where only the year is shown, no date was given by the source but the information is assumed to be contemporaneous with other dated information from the same source.

Year completed: The completion date was obtained from the driller's log or reported by the owner, or others.

Altitude: The altitude given is the altitude of land-surface datum, the plane of reference, at the well. Altitudes given to the nearest foot were interpolated from Geological Survey topographic maps having 20- or 40-foot contour intervals. Altitudes given to the nearest tenth of a foot were determined by spirit leveling by the California Department of Engineering (1918) or the U. S. Bureau of Reclamation (unpublished data).

Depth: Depths of wells given in whole feet were reported by owners, drillers, or others; depths given in feet and tenths were measured below land-surface datum by the Geological Survey.

Type well and diameter: Type of well construction is indicated by the following symbols: A auger, C cable tool, Cd cable-tool hole drilled in bottom of dug pit, D dug, Dr driven, R rotary, Rd rotary hole drilled in bottom of dug pit, N no casing, G indicates well is gravel packed. The number following the letter is the diameter of the casing or pit in inches.

Pump data: The type of pump or method of lift is indicated as follows: A airlift, B bucket, C centrifugal, J jet, L lift, N none, S screw, T turbine, Ts submersible turbine. The type of power is indicated as follows: D diesel engine, E electric motor of undetermined horsepower (where a number appears in this column it indicates the rated horsepower of an electric motor), G gasoline engine, H hand operated, N none, W windmill. The yield or output of the pump in gallons per minute, is usually based on tests performed by the California Electric Power Company and reported by the well owner or driller, and is not necessarily the maximum capacity of the well.

Use of well: Dm domestic, Ds destroyed or dry, I irrigation, In industrial, P poultry raising, Ps public supply, R railroad, S stock, T test hole, Un unused.

Measuring point: The point from which water-level measurements by the Geological Survey are made is described as follows: Bbc bottom of board cover, Bcl bottom of clamp, Bnc bottom of notch in casing, Bpb bottom of pump base, Hpb hole in pump base, Hvg hole for vacuum gage, Ls land surface, Na no access, Tal top of air line, Tap top of access pipe, Tbc top of board cover, Tc top of casing, Tcc top of casing cover, Tcl top of clamp, Tcp top of concrete pipe, Tcr top of wood or concrete curbing, Tdp top of discharge pipe, Thc top of hole in casing, Tp top of plug, Tpb top of pump base. The suffix letters N, S, E, W, indicate the side, north, south, east, or west, where used. The distance of the measuring point above or below(-) land-surface datum is given in feet and tenths and sometimes hundredths. All measurements of water level are from the same measuring point unless otherwise indicated; however, the measuring points used by the California Electric Power Company, drillers, California Department of Engineering (1918), and others are not known.

Depth to water: Measured depths to water level are given in feet, tenths, and hundredths, or feet and tenths; reported or approximate depths to water level are given in whole feet. The water-level measurements given by the Geological Survey for 1956 and 1957 are below or above(+) land-surface datum. For these measurements the difference in altitude between land-surface datum and the measuring point has been subtracted from or added to the neasured water level below or above the measuring point; the measurement given is the depth to water below or above land-surface datum. For CDE (California Department of Engineering, 1918) and DGT (Thompson, 1929) numbers the measurements are given as tabulated in the reference, and as tabulated are depth to water below ground surface, which probably is the same as land-surface datum of this report. For U numbers (from references given in table 3) the depths to water level given are below ground surface, which probably is the same as land-surface datum of this report, except where the distance between the measuring point and ground surface is not known; for these the depth to water below measuring point is shown in parentheses.

Other data: C chemical analysis of water is given in table 7, L driller's log of well is given in table 6. W unpublished records and selected published records of water levels are given in table 5, Wp records of water levels are in the references given in table 3.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 3 N., R. 3 W.										
3/3-6C1	GS	3- 6-56	G. Lobban	1948	2930	100	C 12	J 1		Dm	Tcc	0.5	50.79	
6C2	GS	3- 6-56	H. Steele	1952	2940	85	8	J 1		Dm	Tc	1.0	59.04	L
6C3	GS	3- 7-56	Conaway	1951	2950	126	8			Dm	Na			
6E1	GS	3- 6-56	McBain		2940								dry	
	U-6	7-15-32	M. Spranger			30	12				Tc		(10.7)	Wp,W
	CDE-8	2-26-17	M. J. Springer				D						5.7	
6E2	GS	3- 6-56	McBain	1951	2940		12	J 1		Dm	Tc	.8	32.85	
	U-6a	7-29-46	M. Spranger			61	12						20.6	Wp,W
6L1	GS	3- 6-56	R. Puppe	1953	2995	150	C 10	Ts 5	225	Dm,I	Tcc	.5	95.17	L
6P1	GS	2-15-56	C. Phipps					J 1			Tcc	.5	25.14	
	CDE-4	2-26-17	Vlodek		2931.4	20	D	N N					2.8	
6P2	GS	2-16-56	C. Phipps		2960			T 10		I	Enc	0	34.72	
6P3	GS	3- 6-56	A. Molinar	1955	2950	170	C 8	T 7½		Dm,I	Tap	.5	78.19	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 3 N., R. 3 W.--Continued.										
3/3-7F1	GS	2-15-56	D. Allard		2950	98	C 14	T 10	550	Dm,I	Hpb 1.0	27.97	
7F2	GS	2-15-56	D. Allard		2950		C 14	N N		Un	Na		
7F3	GS	4-12-57					12	N N		Un	Tcc 1.0	22.00	
	GS	2-16-56									Tcc 1.0	33.14	
	CDE-3	2-26-17	A. Dewitt		2944.4	11	D	N N			0	8.3	
7F4	GS	4-12-57	D. Allard		2950		14	L N		Un	TcW .15	13.60	
7F5	GS	4-12-57	D. Allard		2950			N N		Ds			
	CDE-2	2-26-17	Martin McInnis	1913		30	D	L W			0	10.4	
7F6	GS	4-12-57	D. Allard	1956	2950	137.0	CG 14	N N	400	Un	TcE 1.0	14.48	
7M1	GS	4-12-57	McInnis Estate		2940	16.4	14	N N		Un	Tc 0	8.13	
	GS	2-15-56									Tc 0	15.30	
7M2	GS	3- 7-56			2945		14	N N		Un	Tcc .5	14.95	
7M3	GS	4-12-57				18.2	D 3	N N		Un	Tc -5.5	9.21	
	U-3	3-18-32	Martin McInnis				12			Dm	Tc 0	7.4	Wp
	CDE-1	2-26-17	Martin McInnis		2945.8	22	D	L W				7.5	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 3 N., R. 4 W.										
3/4-1C1	GS	2- 6-57	N. Platt	1951	2950	127	C 8	J 1		Dm	Na		
1C2	GS	6-12-57	N. Platt		2970		6	N N		Ds			
	U-7a	2-20-32								Dm	Tcr 1.6	41.0	Wp
1C3		2- 6-57	N. Platt	1923	2950	68	10	N N		Un	Na		L
1D1	GS	1-23-57	R. Askew	1903	2925	165	C 8	T 3		Dm	BpbS 1.0	114.13	
1G1	GS	2- 6-57	N. Platt	1920	2925	88	16	N N		Un	TcN 0	47.86	
1G2	GS	2- 6-57	N. Platt	1951	2925	162	G 14	T 75	1300	I	HpbN 1.0	48.31	
1K1	GS	2- 7-57	M. S. Emery Ranch	1953	2925		G 12	T 40		I	HpbW 0	49.76	
1K2	GS	2- 7-57	M. S. Emery Ranch		2925		14	T 2		Dm	TcN .5	36.20	
1Q1	GS	2- 7-57	M. S. Emery Ranch		2925		8	N N		Ds			
	U-5	1-27-31				26.2				T		dry	Wp
1R1	GS	2- 7-57	M. S. Emery Ranch		2925		14	T 20		I	TapS 1.0	31+	
1R2	GS	2- 7-57	M. S. Emery Ranch	1910	2925		D 2	L G		Un	Tcl 1.0	28.07	
	U-4a	2-20-32	W. P. Lang							I	Tcr 2.0	10.4	Wp

Table 1 3/4

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 3 N., R. 4 W.--Continued.										
3/4-1R3	GS	2- 7-57	M. S. Emery Ranch		2925		8	J 1		Dm	TcN 0.5	32.10	C
1-1	CDE-5	2-16-17	C. F. Hedrick	1916	2935.1	216	C 10	C G	720			11.0	
1-2	CDE-6	2-16-17	F. Spencer	1916	2927.4	250	C 12	C G	900			11.0	
1-3	CDE-7				2922.9		D	L W					
1-4	U-7	7-28-31	Booth and Argus		2926						Hvg -5.0	19.5	Wp
9F1	GS	2-20-57	Yaeger Ranch		3315		8	L G		S	Na		
12B1	GS	2- 8-57	B. D. Lackyard		2920		12	T G		I	TcE 1.0	43.24	
12J1	GS	2-16-56			2955	26.1	D 36	N N		Un	Tbc 1.0	7.83	
	U-4	2-20-32					D 36	L W		S	Tbc	(7.6)	Wp
12K1	GS	2-14-56	J. M. O'Banion	1948	2960	170	RG 10	J 1		Dm	Tc .5	71.63	
12K2	GS	2-14-56	J. M. O'Banion		2965		6	N N		Un	Tc 0	15.14	
12Q1	GS	2- 7-57	Curtis O'Banion		3010		D 14	N N		Un	Bbc 0	104.43	
	U-2	2-20-32	A. M. Page							Dm,I	Tcr 0	87.1	Wp
12Q2	GS	2-14-56	Curtis O'Banion	1951	3010	170	RG 8	T 5		Dm,I	TcW 1.0	94.32	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 3 N., R. 4 W.--Continued.										
3/4-13B1	GS	2-16-56	Pittinger		3005			L W		Dm	Tbc 0.5	83.50	
	U-1	2-20-32	Olive, formerly West							Dm	Tbc 0	80.1	Wp,W
13B2	GS	2-16-56	Pittinger		3005		T 7½				Na		
	F		W. T. Boehringer		2950		C 10				Tcr 1.42		
13F1	GS	2-14-56	Delma Thompson		3070	315	14	T 30	700	Dm,I	TapE 1.0	141.86	
20P1	GS	2-20-57			3210	23.9	D	L W		Un	Tcl 2.0	19.32	
21N1	GS	2-20-57			3145	20	D	L W		Un	Tap 0	16.95	
23G1	GS	2-18-57			3130		10	L W		Un	TcS 1.0	111.80	
23Q1	GS	2-18-57	G. A. Snyder		3210			L N		Dm	EpbN 1.5	29.94	
26B1	GS	2-18-57	G. A. Snyder		3200		10	L 1		I	TccN 1.5	6.65	
27H1	GS	2-20-57			3155		14	L W		S	TcW 1.0	1.62	
28G1	GS	2-20-57			3125	298.0	8	N N		Un	TcS 4.0	.93	
28J1	GS	2-20-57			3153		8	L W		S	TcS 1.5	5.53	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 3 N., R. 4 W.--Continued.										
3/4-28P1	GS BR-43	4- 5-56	Las Flores Ranch		3168.6	340	10 T	7	S,I	HpbN	1.0	4.80	C,W
28P2	GS	2-19-57	Las Flores Ranch		3150	10.0	D 14	L W	Un	Tdp	0	2.50	Wp
	F	4- 5-56	Carver Investment Co.							Tbc	0	3.70	
31B1	GS	2-19-57	Las Flores School		3225	25.6	D 40	J 3/4	Dm	Tbc	0	24.27	C
31C1	GS	2-19-57	L. Johnson		3220	20.3	D 36	C 5	Dm,I	Tcr	4.0	12.25	
31C2	GS	2-19-57	J. A. Richardson	1956	3220	55.2	CG 8	N N	I	Tcn	1.5	19.28	C,Wp
31C3	GS	2-19-57	J. A. Richardson	1956	3225	32	Cd 8	T E	Dm	Na			
31D1	GS	2-19-57	E. Poe		3240	21.1	Cd 18	J 1	Dm,S	TcrW	1.0	7.10	
32C1	GS	4- 5-56	Las Flores Ranch			60	8	L W	Dm,S	TccE	3.0	9.85	
	F-29P1	11- 6-53								Tc	2.9	12.60	
	BR-44	11-11-50	Las Flores well		3187.0			W		Tc	2.9	12.9	W
32D1	GS	2-19-57	Las Flores Ranch		3185		8	J ½	Dm	TcS	1.0	all.78	
33G1	GS	2-19-57	R. C. Sliming		3220	13.6	D 40	J ½	Dm	TccS	1.0	3.88	

a. Pumping.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below ls (feet)	Other data
			T. 3 N., R. 4 W.--Continued.										
3/4-33G2	GS	2-19-57	Nickerson		3230	26.7	D 36	J	½	Dm	TcrE 0	1.91	
33G3	GS	2-19-57	Nickerson		3230	7.1	D 60	L	G	Dm	Tcc 1.0	.95	
33G4	GS	2-19-57			3230	11.4	D 24	N	N	Un	Tcr .5	2.62	
33G5	GS	2-19-57			3235	14.7	D 48		E	Dm	Tcc 0	2.86	
33G6	GS	2-19-57	S. G. Shaffer		3220	16	D	N	N	Un	Na		
33H1	GS	2-18-57	F. R. McCullough	1952	3235			J	1	Dm	Tcc 1.0	5.85	
33H2	GS	2-18-57	W. Ross		3235	40				Un	Na		
33H3	GS	2-19-57	A. L. Wharton	1955	3240	26.2	D 41	J	1	Dm	TcN 0	5.92	
			T. 3 N., R. 5 W.										
3/5-11R1	GS	2-21-57			3560	41.0	D	N	N	Un	Tcc 0	35.52	
12K1	GS	2-21-57	H. Wildey	1956	3475	87.0	C 9	N	N	Un	TcN 1.0	b78.62	
12K2	GS	2-21-57	H. Wildey	1956	3475	348.7	CG 8	N	N	Ds	Tc 1.0	dry	

b. Probably perched or semiperched water.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below ls (feet)	Other data
			T. 3 N., R. 5 W.--Continued										
3/5-13L1	GS	2-21-57	H. Wildey	1920	3590	56	D	L W		Dm	TcrE 2.0	51.36	
14D1	GS	4- 5-56	Las Flores Ranch			276	8	L W		S	Tc .3	240.85	
	F-15A1	11- 6-53										243.30	W
	BR-42	11- 3-50	Lugo well		3602.3			W		S	Tc .3	240	
20Q1	GS	2-29-57	M. E. Warren	1950	3835	231	C 6	Ts E		Dm	BncW 1.0	140.87	
22E1	GS	3-27-57			3635		6	G		Un	TcS 1.6	303.50	
25J1	GS	10- 9-57			3260		6	L H		Dm	Tbc .5	15.54	
25M1	GS	2-19-57	S. Kelly	1914	3295	30.3	Cd 18	L W		Dm	Tcl .5	a27.12	
25N1	GS	2-19-57	S. Kelly		3300	22.9	D 48	C G		I	Tdp 2.0	8.96	
26L1	GS	3-27-57			3340		C 6	L W		S	Tcc .7	a49.30	
27B1	GS	2-29-57	C. Brooks		3435	56.0	D 72	T ½		Dm	Tcr 1.4	47.32	
27B2	GS	3-27-57	H. G. Wells	1949	3440	12	D	J 1/3		Dm,S		flowing	
27F1	GS	2-29-57			3470	100	C			Dm	Na		
27G1	GS	2-29-57	A. S. Fitzell		3420	140	C 8	T G		Dm	TcN 2.0	50.97	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 3 N., R. 5 W.--Continued											
3/5-28A1	GS	2-29-57	Jane Ringo	1954	3535	80	C 10	T 3/4		Dm	TcS	1.0	61.17	
28A2	GS	2-29-57	Jane Ringo		3555	24.6	D 16	N	N	Ds				
28A3	GS	2-29-57	Anderson		3555	37.6	D 60	N	N	Un	Tbc	0	28.25	
28A4	GS	2-29-57	L. A. Cleveland	1948	3530	100	6	L	1	Dm	Na			
28A5	GS	2-29-57	O. P. Ocherstrum	1947	3530	60	C 8	N	N	Un	TcE	.5	49.40	
34B1	GS	3-27-57	L. D. Glasey		3440	30	D 48	L	N	Un	Tc	1.0	6.97	
34B2	GS	3-27-57	L. D. Glasey		3435	30	D 48	J	1/3	Dm	Tc	.5	5.00	
36B1	GS	2-19-57	R. Trautsch				D			Dm	Na			
			T. 3 N., R. 7 W.											
3/7-9H1	GS	3-27-57			5510		6	N	N	Un	Tbc	-4.7	233.29	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 4 N., R. 1 W.										
4/1-5C1	GS	12-4-56	Sorbor	1948	2980		10	T G		Dm	TcW 0.5	83.95	
5N1	GS	12-5-56			2985	15				Ds			
	CDE-168	3-2-17	C. P. Summers			26	D	L W				23.4	
5N2	GS	12-5-56			2980	4				Ds			
	CDE-169	3-2-17	C. P. Summers			26	D	L				23.4	
6E1	GS	12-5-56			2940	20.8	D			Ds			
	CDE-165		Lockhart				D	N N					
6E2	GS	12-5-56			2960	8	D			Ds			
	CDE-167	3-2-17	Lockhart			30	D	L W				26.4	
6-1	CDE-166	3-2-17	Lockhart			30	D	C G				24.3	
7D1	GS	12-5-56		1956	2940		R 8	N N		Un	TcS .3	23.20	
7R1	GS	12-18-56	A. H. Rolapp		2940	136	RG 10	N N	50	Un	Enc 3.4	11.25	
17D1	GS	1- 3-57			2950		12	N N		Un	TcS 1.3	19.49	
17N1	GS	1- 3-57		1948	3000	1400	R 12	N N		Un	Tcc 1.0	65.50	
17N2	GS	1- 3-57			3010	1400	C 12	N N		Un	TcN .2	78.77	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: Depth to water below lsd (feet)	Other data
			T. 4 N., R. 1 W.--Continued.										
4/1-18E1	GS	2- 5-54	George McCarthy	1951		200	C 8	J 3		Dm	BncN 0.6	56.98	C,W
	BR-36		Mac's Dude Ranch		2968.1						Tc 1.0		
18F2	GS	1- 3-57	George McCarthy	1953	2970	151	CG 9	Ts 1	38	Dm	Tcc .6	56.88	
	GS	2- 5-54									Tcc .6	57.00	
	BR	11-13-50									Tc 1.0	58.3	
18G1	GS	1- 3-57	A. Turner	1906	2950	54	R 12	J ½	10	Dm	Tcc 1.5	36.02	
	GS	2- 4-54									Tcc 1.5	35.93	
19C1	GS	1- 3-57	Arthur Rolapp	1948	2990	194.9	8	N N		Un	TcN .8	71.80	L
20H1	GS	1- 3-57			3075	200	12	Ts 1		Dm	Na	145	
20P1	GS	1- 3-57	F. H. Hammel	1945	3125	200	8	L 2		Dm	TpbE 1.0	193.06	
20R1	GS	1- 3-57	O. M. Curry	1955	3185	308	CG 8	Ts 2½	12	Dm	TcE 1.5	240.54	L
			T. 4 N., R. 2 W.										
4/2-1H1	GS	12-5-56			2960		D .	N N		Ds			
	CDE-164	1917	John McPherson			24	D	L W				19.0	
3G1	GS	12-5-56	C. M. Barnard	1952	3035	222	C 10	T G	200	Dm	Tcc .8	176.50	L

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: Depth to water below lc (feet)	Other data
			T. 4 N., R. 2 W.--Continued										
4/2-3Q2	GS	12- 5-56	C. M. Barnard	1923	3035	222	C 6	L G		Dm	Na		C
4B1	GS	12- 6-56					7	N N		Ds			
	CDE-156	1917	E. R. Wheatley		3024.9	195	C 7	L W				168.0	
4E1	GS	12- 6-56	R. L. Reid			375	9	T 15		Dm,I	Tc	4.0	177.46	C
	CDE-153	3-1- 17	E. C. Vessey	1915	3027.0	450	C 12	A G	550				177.0	
4G1	GS	12- 6-56				20.8	C 6	N N		Ds	Tc		dry	
	CDE-157	1917	E. R. Wheatley	1917	3036.0		C	N N						
4Q1	GS	12- 5-56	A. Mendel	1953	3080	505	RG 16	N N	720	Un	TcN	1.4	229.93	C,L
4-1	CDE-158	3- 1-17	D. W. Hurlihy	1915	3075.6	500	C 12	A G	360				222.9	
4-2	CDE-328	1917	E. D. Vessey				D	L W					160.0	
5D1	GS	12- 6-56			3040	247	C 6	N N		Un	Na			
5D2	GS	12- 6-56			3035	227	C 8	N N		Un	Na			
5F1	GS	12- 6-56			3055	247	C 6	N N		Un	Na			
5G1	GS	12- 6-56	M. Scoonover	1954	3060	184	C			Dm	Na			

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 4 N., R. 2 W.--Continued.										
4/2-5G2	GS	12- 6-56			3055	251	C 6	N N		Un	Na		
5G3	GS	12-6 -56			3050	231	C 6	N N		Un	Na		
5H1	GS	12- 6-56	P. D. Martin	1948	3050	256	10			Dm	Na		L
5H2	GS	12- 6-56	Dailey		3055		6	Ts E		Dm	Na		
5H3	GS	12- 6-56	Paul Martin							Ds			
	U-22	2-17-33	A. L. Martin							Un	Tc 0	182.4	Wp
	CDE-152	1917	A. L. Martin		3041.0	280	C 12	S G	540			187.0	
5J1	GS	12- 6-56	Grajeda	1951	3065	261	C 8	E		Dm	Na		
5L1	GS	12- 6-56			3060			Ts E		Dm	Na		
5N1	GS	12- 6-56				228.9	C 12	N N		Ds	Tc 3.0	dry	
	U-21	3- 2-33	A. B. Sheridan				12			Un	Tc 2.5	234.7	Wp
	CDE-150	1917	A. B. Sheridan	1915	3100.0	311	C 12	N N				221.0	
6D1	GS	12- 7-56	C. A. Stephens	1952	3030	220	CG 8	L W		Dm	TcN .4	194.48	
6E1	GS	12- 7-56				164.7	C 8	N N		Un	Tc 0	dry	
	CDE-93	3- 4-17	A. J. Lintner		3030.0		C 8	N N				200.0	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 4 N., R. 2 W.--Continued.										
4/2-6N1	GS	12- 7-56					N N			Ds			
	U-20	1-26-32	H. E. Walsh							Un	Tcr	(289.4)	Wp
	CDE-92	1917	H. E. Walsh	1914	3125.0	340	C 12	L G	297			200.0	
8A1	GS	12-19-56	McDonald		3110	500	12	N N		Un	TcE 2.0	277.89	
8-1	CDE-151	1917	John McDonald	1915		418	C	N N				255.0	
9E1	GS	12-19-56	C. S. Parker	1948	3110	292.0	C 12	N N		Un	TcS 1.4	248.08	L
9M1	GS	12-19-56	L. Best		3150	350	R 8	L WG		Dm	TcS 1.0	292.96	
10D1	GS	11- 5-57	A. Mendel			224.3	C 12	N N		Un	TcW .8	220.37	
	GS	12-19-56									TcW .8	216.94	
	CDE-159	3- 1-17	D. W. Hurlihy	1915	3073.2	550	C 12	A G	316			220.3	
10G1	GS	12-19-56	Edison Co.				C	N N		Ds			
	CDE-160	3- 1-17	J. W. Beasley	1915	3058.2	501	C 12	A G				183.7	
12G1	GS	12-18-56			2980	72	C 12	N N		Un	Bnc .3	68	
	CDE-162	1917	W. S. Cherry			270	C 12	L G				63.0	
12H1	GS	1- 9-57			2960	43.2	C 12	N N		Ds	Tc 0	dry	
	CDE-163	1917	W. S. Cherry			70	C 12	L W				62.0	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 4 N., R. 2 W.--Continued										
4/2-13A1	GS	1-10-57	Frances Hill	1945	2980	225	12	T G	60	Dm	HpbS 0.5	66.13	L
	F	4-10-56										65.62	
	F	2-18-56										72.08	
13C1	GS	1-10-57	W. H. Barnes		3010	112	C 8	J 1		Dm	Na		
13D1	GS	1-10-57	L. Penley		3020	150	12	T G	80	Dm	DpbN .15	100.05	
13J1	GS	1-10-57			2990		8	J 1		Dm	TclW 1.0	75.80	
14C1	GS	1-10-57			3040		D	N N		Ds			
	CDE-161	3- 2-17	F. Liebold			147	D	L W				144.2	
16C1	GS	1-11-57	Pacific Water Co.		3155	545	C	T 40		Ps	Tap 1.0	304.30	C
18R1	GS	1-15-57			3340		8	L W		S	Tcc 1.1	156.68	
19X1	GS	1-16-57	L. Earr		3510	256	8	N N		Un	TcN 1.0	160.47	
20D1	GS	1-15-57	J. A. Miller	1948	3340	235	CG 6	L W		Dm	Rpb 1.0	199.13	L
20E1	GS	1-15-57	F. Baum	1953	3390	256	CG 8	L W		Dm	Na		
20J1	GS	1-22-57	Wilson		3580	820				Dm	Na		
22F1	GS	1-10-57	V. J. Fleming	1947	3460	855	R 8	L W	1.5	Dm	Na	450	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: Depth to water below lsd (feet)	Other data
			T. 4 N., R. 2 W.--Continued.										
4/2-24K1	GS	1- 9-57	B. Thornton		3200	380	8	L W		Dm	Tcc 0.6	309.24	
30F1	GS	1-15-57	A. Galbois	1940	3640	129	C 8	L W		Un	HpbS 3.0	118.96	
36G1	GS	1-15-57	A. Galbois		3870	19	C 8	L G		Un	Bpb 2.0	17	
			T. 4 N., R. 3 W.										
4/3-1C1	GS	12- 7-56	Thomas		3010			T 15		Dm,I	Na		
1C2	GS	12- 7-56	G. Kendall		3030		8	L N		Un	TcW .5	191.47	
1M1	GS	12-11-56	M. Munzinger				C 12	L 3/4		Dm	Tbc .4	214.57	
	U-19	1-26-32	E. D. S. Pope								Tcr -.4	204.6	Wp
	CDE-90	1917	E. D. S. Pope	1913	3037.0	730	C 12	L G	90			196.0	
1R1	GS	12- 7-56			3130		8	L W		Dm	TcN .2	289.30	
1-1	CDE-91	1917	D. D. Spaid	1914		250	C 12	S G	270			163.0	
2A1	GS	12-12-56	Eulie		3000			Ts 2		Dm	Tcc -.1	162.40	
2A2	GS	12-12-56	Pacific Telephone Co. Employees	1953	3015	435	12	T 25	130	Dm,I	Bpb .65	178.56	

Table 1
4N/2W
4N/3W

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 4 N., R. 3 W.--Continued.										
4/3-2B1	GS	12-11-56	Ralph Beasley			180	C	L W		Dm	Na		
	CDE-88	1917	J. F. Olsen	1911	2995.6	167	D	L W				159.0	
2B2	GS	12-11-56	Ralph Beasley		2995.6	249	C 8	N N		Un	TcS 1.3	170.83	L
2C1	GS	12-12-56	T. E. Dennison	1941	3005	200	C 6	L W		Dm	TcW 1.0	165.97	
2D1	GS	12-12-56			2990		14	Ts 1		Dm	Tcc -1.0	159.68	
2F1	GS	12-11-56	M. C. Morey		3000		G 8	Ts 1		Dm	Tcn -1.6	172.23	
2F2	GS	12-11-56				150.6	C 6	N N		Ds			
	CDE-87	1917	T. E. Dennison	1909	2997.6	180	C 6	L W				159.0	
2G1	GS	12-11-56			3010		C 8	N N		Un	Na		
2R1	GS	12- 7-56						N N		Ds			
	CDE-89	3- 2-17	W. J. Fifield		3053.0		C 10	L W				213.0	
3A1	GS	12-12-56			2990		CG 12	Ts 1		Dm	Tcc 1.0	161.87	
3B1	GS	12-12-56					D	N N		Ds			
	CDE-85	3- 3-17	J. Billingsley		2978.9		D	N N				149.0	
3R1	GS	12-12-56					C 6	L G		Dm	Na		
	CDE-86	1917	C. A. Bonadiman		3030.8	241	C	L W				190.0	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below ls (feet)	Other data
			T. 4 N., R. 3 W.--Continued.										
4/3-4E1	GS	11- 2-56	Anderson		3010			T E		Dm,S	Na		
	CDE-83	1917	O. L. Morgan	1913			D	L W				170.0	
4G1	GS	11- 2-56	P. Crevolin	1946	3000	300	R 14	T 50	1800	I	TapN 1.5	175.70	
4-1	CDE-84	1917	H. W. Fitzpatrick	1912	2992.9		D	N N				155.0	
4-2			Morgan Ranch										L
5A1	GS	6-20-56	E. Sanden					N N		Un	Tcc 0	189.0	
	CDE-97	1917	C. H. White	1915	3002.1	204	C 12	L G	72			166.0	
5A2	GS	6-20-56	E. D. Sanden	1953	3000	300	C 10	T 15		Dm,I	Tap .5	186.02	L
5A3	GS	6- 7-57	C. C. Koon	1953	3000	300	C N	N N		Ds			L
5C1	GS	6-20-56	P. D. Savage	1955	2970	240	C 8	Ts 1½		Dm	Na		
5D1	GS	6-20-56						N N		Un	Na		
	CDE-70	1917	Apple Valley School		2923.8	160	C 7	L W				100.0	
5D2	GS	12-11-56	Florence Hopper	1956	2960	191	C 8	L W		Dm	TcS 1.3	164.11	L
5D3	GS	12-13-56	Frank Partridge	1955	2920	169	C 8	Ts 3/4		Dm	Na		

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below ls. (feet)	Other data
			T. 4 N., R. 3 W.--Continued.										
4/3-5P4	GS	6- 6-57	B. L. Claybrook		2920		C 8	Ts 1		Dm	Na		
5D5	GS	6- 6-57	Westley Thilake	1956	2920	169	C 8	N N		Un	Na		L
5L1	GS	6- 6-57	Dale McComb	1955	2970	214	C 8	Ts 1½		Dm	TcW 1.0	184.79	
5L2	GS	6- 6-57	Bradbury		2960		8	Ts 1		Dm	Tcl .7	152.27	
5L3	GS	6- 6-57	S. V. Graves	1956	2960		C 6	J 1		Dm			
5N1	GS	5-22-56	F. H. Pope		2935			T 3		Dm	TcW 0	111.70	
5N2	GS	5-22-56	F. H. Pope	1946	2940	351	RG 12	T 50		I	TapW 1.0	125.75	
5N3	GS CDE-69	1-30-57 1917	W. A. Westphal	1910	2923.4	370	C 12	N N C G	720	Ds		80.0	
5P1	GS U-31 CDE-82	12-11-56 3-24-32 1917	R. M. Ferguson	1911	2995	272	C	N N		Un	Na Tcl -3.2	172.8 166.0	Wp
5Q1	GS	12-11-56	Fred J. Myers	1951	3005	217	CG 8	L W		Dm	TcS .5	190.45	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power		Yield (gpm)	Use of well	Water level: Measuring point (feet)		Water level: Depth to water below lsd (feet)	Other data
			T. 4 N., R. 3 W.--Continued.												
4/3-5Q2	GS	12-11-56	R. E. Pollard	1956	3005	229	C 8	L	1½	5-3/4	Dm	TcW	0.32	188.78	L
5Q3	GS	2- 5-57	R. M[illegible]ing	1955	2985	211	C 8	N	N		Un	TcN	1.3	175.89	L
5Q4	GS	6- 6-57	Clifford	1953	3000		8	Ts	2		Dm	Tap	1.0	196.31	
5R1	GS	12-12-56	I. B. Jolly	1952	3010	260	10	Ts	1		Dm	TccE	-5.3	189.48	
6A1	GS	6-13-56	New Way Laundry		2871.91	99	12	Ts	1		Dm	TccN	-6.0	70.92	L,
	U-44	5-17-34	A. J. Lintner								Dm			55.5	(c)
	F-6B1											Hpb	1.0		(c)
6A2	GS	4- 5-56	A. Lintner	1947	2872.4	119	C 16	T	15		I	HpbE	.5	70.00	
	F-6B1														(c)
6B1	GS	6-13-56	J. Pettis	1930	2870	95	16	T	10	360	Dm,I	TccN	0	(a)	
6B2	GS	6-13-56	K. R. Shingler		2875	80	12	J	1		Dm	Tbc	-5.7	66.31	
6B3	GS	6-13-56			2875			T	E		Dm	HpbS	1.0	67.33	
6B4	GS	6-13-56	G. Short		2880			T	10		Dm,I	TapN	2.0	68.42	
6B5	GS	6-13-56	S. Leffler		2880	93	12	T	5		Dm,I	TccN	0	69.76	
6C1	GS	6-21-56	C. W. Cambridge	1956	2875	80	C 8	T	2		Dm	TcN	2.0	60.85	

a. Pumping.

c. Water-level measurements in well 6A1 from 1931 through July 1, 1953, are published under well numbers U-44 and F-6B1. Measurements after July 1, 1953, were inadvertently made in well 6A2 but were reported under well number F-6B1. (See tables 4 and 5.)

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: Depth to water below lsd (feet)	Other data
			T. 4 N., R. 3 W.--Continued.										
6D1	GS	6-2[illegible]-56	W. J. Smithson	1910			8	Ts E		Dm	Tap 1.5	66.62	C,W
	U-43	5-17-34	A. W. Phillips							Dm	Tcr 1.5	a56.1	Wp
	CDE-67	2-24-17	A. W. Phillips		2866.5	100	C 10	L G	54			50.0	
6D2	GS U-43a	6-20-56	W. J. Smithson	1948	2870	100	8	T 7½		Dm,I	TcN 2.0	(d)	L,W Wp
6D3	GS	1-30-57			2860		8	Ts 1		Dm	TcN .5	50.26	
6E1	GS	5-24-56	Jess Ranch		2860	150	10	T 1½		Dm	Na		
6E2	GS	1-30-57								Ds			
	CDE-34	2-24-17	A. H. Holman		2853.7	25	D	C G	216			11.8	
6G1	CS	6-13-56	Olin McGuire	1955	2880	118		T 3		Dm	Na		
6G2	GS	6-13-56	Olin McGuire			93.7	Cd 72	T 20		I	Tbc 2.0	70.55	
	CDE-68	1917	G. L. Smith		2878.7	100	C 12	C G				50.0	
6H1	GS	2- 5-57	H. W. Fredenburg	1956	2880	99	C 8	Ts 1		Dm	TcS .5	67.14	L
6J1	GS	2- 5-57	W. Fredenburg	1945	2880		C 8	Ts 3/4		Dm	TccE .5	67.82	
6J2	GS	2- 5-57	A. H. Crawford	1950	2900	114	CG 9	J 1		Dm	Tcc 1.0	76.42	L

a. Pumping.

d. Tape smears.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below ls (feet)	Other data
			T. 4 N., R. 3 W.--Continued.										
4/3-6K1	GS	6- 7-56	H.L.B. White		2875		8	J E		Dm	TcS 1.0	76.75	
6K2	GS	2- 5-57	George Tyler	1951	2880	91	C 8	E	40	Dm	Na		L
6L1	GS	5-24-56	Jess Ranch	1949	2855	350	RG 18	T 20		I	TapN 0	49.83	
6L2	GS	5-24-56	Jess Ranch	1951	2855	450	RG 18	T 30		I	TcN 0	52.56	
6L3	GS	5-24-56	Jess Ranch	1954	2885	350	R 24	T 100		I	HpbN 3.0	a86.39	
6N1	GS	5-24-56	Jess Ranch			100	C 14	T 10		I	Na		
	U-39	5-13-32								Dm,I	Tc -8.1	17.4	Wp
	CDE-32	1917	Harris Garcelon	1909	2842.9	133	C 12	C G	1170			16.0	
6P1	GS	5-24-56	Jess Ranch	1949	2860	200	RG 18	T 40		I	Tap 0	58.47	
6P2	GS	6- 7-56	Jess Ranch	1948	2860	216	C 12	T 20		Dm,I	TcN 0	49.91	L
6P3	GS	6- 7-56	Jess Ranch	1951	2880	96	C 8	J 1		Dm,S	Na		L
6Q1	GS	3-15-57		1951	2880		8	Ts 1		Dm	TcN 1.0	67.41	
6R1	GS	1-30-57	S. A. Day	1956	2915	138	C 8	T 1		Dm	Bnc .13	77.08	L
6R2	GS	1-30-57	B. O. Mosher	1949	2920	96	C 8	N N		Un	Bnc .16	81.10	L

a. Pumping.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 4 N., R. 3 W.--Continued.										
4/3-6R3	GS	3-15-57	W. A. McVeigh	1948	2885	85	C 8	J 1	15	Dm	Na		L
6R4	GS	3-15-57	D. B. Lackey	1948	2890	86	8	T 1		Dm	TapE 0.5	78.72	L
6-1	CDE-35	1917	A. W. Phillips		2830.5	94	C 12	C G	1944			8.0	
7A1	GS	1-30-57								Ds			
	CDE-72	2-25-17	Cozard		2880.4	48	D	L W				46.8	
7D1	CS	6- 7-56	Jess Ranch	1951	2850	225	R 18	T 30		I	Na		
7G1	GS	5-22-56	H. Watson	1953	2865	168	RG 16	T 40	1500	Dm,I	BncW 0	54.16	C
7G2	GS	5-22-56	H. Watson			150	Cd 12	T 15	1800	Un	Na		
	CDE-33	1917	E. Garcelon	1912	2848.8	166	C 12	C G	1350			10.0	
	U-40	6-22-07								T		11.9	Wp
	U-40	2-10-05										21.6	
7K1	GS	5-22-56	C. G. Lewis			140	Cd 12	T N		Un	Na		
	U-34	5-13-32	C. G. Lewis							I	Tcr 0	18.8	Wp
	CDE-30	1917	C. G. Lewis	1910	2854.6	146	C 12	C G	495			12.0	
7K2	GS	5-22-56	C. G. Lewis	1956	2870	200	RG 14	T 25	1500	Dm,P	Tap .5	39.30	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below ls (feet)	Other data
			T. 4 N., R. 3 W.--Continued.										
4/3-7K3	GS	5-22-56	C. G. Lewis	1948	2870	164	C 14	Ts E		Dm	TcN 0	39.32	L
7M1	GS	6- 7-56	H. D. Carden				C 10	N N		Un	TcN 1.0	36.55	
	U-35	5- 5-32	Carden								Tcr 0	15.9	P
	CDE-31	2-25-17	H. A. Carden		2853.7	225	C 10	C G				15.1	
7M2	GS	6- 7-56	H. D. Carden	1947	2860	78	CG 14	T 15		Dm,I	TcE 0	39.78	
7N1	GS	6- 7-56	H. D. Carden		2860	100	P 14	T 15		I	BncW 0	42.99	
7R1	GS	1957					C 10	N N		Ds			
	CDE-29	2-25-17	I. K. Miller		2861.9	150	C 10	C G				19.5	
8B1	GS	12-13-56	Frank Partridge	1949	3020	217	8	Ts 1		Dm	Na	180	
8D1	GS	5-22-56	D. Julseth	1922	2915	149	8	T 25		Dm,P	Na	92	
8D2	GS	1956						N N		Ds			
	CDE-71	1917	Edwin Rhodes	1914	2904.1	164	C 14	T G	900			71.0	
8E1	GS	12-13-56	E. C. Bates	1953	2925	166	C 8	Ts 2		Dm	Na		
8E2	GS	12-13-56			2915		8	Ts 1½		Dm	Tcc .3	88.27	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below ls (feet)	Other data
			T. 4 N., R. 3 W.--Continued.										
4/3-8N1	GS	12-13-56				15		N N		Ds			
	CDE-73	2-25-17	Keplinger		2904.3		D	L W				66.0	
8M2	GS	12-13-56	M. J. Steorts	1955	2920	183	C 8	Ts	1½ 23	Dm	TcE 2.0	99.82	
8P1	GS	12-12-56			2970		C 14	N	N	Ds		dry	
	CDE-74	1917	C. F. Ten Eyck	1915		225	C 14	T	G 405			132.0	
8-1	U-32	7-28-31	Marianna Ranch							I	Tcr 0	197.0	Wp
	CDE-78	3- 1-17	W. C. Harris	1912	3030.9	345	C 14	L	G 270			186.2	
9A1	GS	12-14-56	B. Hite		3020		G 8	T	3	Dm	TcN .9	187.18	
9E1	GS	12-14-56	J. M. Hull	1952	3025	501	G 16	T	125	I	Hpb 1.48	198.15	C,L
9G1	GS	12-14-56	Ranchoritos Mutual Water Co.	1956	3020	452	RG 12	T	50 875	Ps	TapN 1.28	190.4	
9N1	GS	12-13-56	Pacific Water Co.				Cd 14	T	25	Ps	Tbc .3	211.35	C
	CDE-79	3- 1-17	A. E. Hull	1912	3033.9	687	C 14	C	G 495			188.9	
9P1	GS	12-13-56	A. Mendel		3035			T	75	I	TapS 1.1	204.73	
9Q1	GS	12-13-56	A. Mendel	1950	3030	494	16	T	125	I	TapE 1.43	207.07	C,L

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well	Diameter (in.)	Pump data: Type and power		Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: Depth to water below ls. (feet)	Other data
			T. 4 N., R. 3 W.--Continued												
4/3-10B1	GS	12-14-56	T. G. Cristilly	1956	3035	237	C	8	Ts	E		Dm	Na		L
10D1	GS	12-14-56	G. Pettit	1955	3020	241			T	5		Dm	Na	188	
10P1	GS	11- 5-57						14	N	N		Un	Tcr 0	233.73	
	GS	12-20-56											Tcr 0	231.97	
	U-33	1-27-31	Old Hunt place									Dm	Hpb 0	221.3	Wp
	CDE-80	3- 1-17	W. M. Hunt, Jr.		3060.4	300	C	14	L	G	378			212.0	
10R1	GS	12-20-56						12	T	20		Dm	EpbN .3	260.71	
	U-18	1-20-32	M. Rudelson									Dm,I	Tpb 1.4	151.0	C,Wp
	CDE-81	1917	W. E. Tussing	1917	3090.0	385	C	12	L	G	243			138.0	
10R2	GS	1- 2-57			3090	237.1		12	N	N		Ds	TcW 1.0	dry	
	U-18a	3- 3-33						12				Un	Tc 1.0	237.5	Wp
11C1	GS	12-20-56	J. Thompson		3060			8	T	5		Dm,S	Na		
11E1	GS	1-22-57	Tenopir	1956	3065	260	C	8	J	2		Dm	TcE 1.0	231.18	
12D1	GS	12-20-56	John Weibel	1951	3095	335		10	Ts	1	9	Dm	Tcc .64	253.19	L
14G1	GS	1-17-57	W. Whitehouse	1956	3215	457.7	C	10	N	N		Un	Tc 1.0	377.99	
15-1	CDE-327	1917	R. W. Miller			195	C		N	N				145.0	

Table 1

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 4 N., R. 3 W.--Continued										
4/3-17A1	GS	12-14-56	V. M. Hanson	1954	3045	272	C 8	Ts 5		Dm	TcW 0.3	214.31	
17B1	GS	12-14-56	H. C. Green	1946	2985	171	C 6	J 1½		Dm	Na		
17B2	GS	12-14-56	G. W. Compton	1950	2995	322	RG 10	L ½		Dm	Na		
17B3	GS	12-14-56	J. C. Everson	1955	2950	157	C 8	Ts E		Dm	TcW .5	138.25	
17D1	GS	5-22-56	L. Disney			30.0	10	N N		Un	TcE 1.0	dry	L
	CDE-28	2-25-17	D. W. McPherson	1914	2866.8			N N				20.6	
17D2	GS	5-22-56	L. Disney		2875		12	T 5		Dm,I	Na		
17D3	GS	5-22-56	L. Disney	1915	2875	80	14	T 20		Dm,I	Hpb .4	41.75	
17E1	GS	5-15-56	T. J. Devine	1915	2870	150	C 10	N N		Un	Na		
	U-26	5-17-34								T	Tdp .4	24.8	Wp
17G1	GS	12-14-56	A. E. Martinson	1943	2960	136	C 10	L W		Dm	Tbc 1.0	130.60	L
17H1	GS	12-14-56	Ranchoritos Mutual Water Co.	1956	3040	600	RG 12	T E		Ps	Na		
17H2	GS	12-14-56	Bensen		3045		8	Ts E		Dm	TccW 1.3	219.71	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: Depth to water below lsd (feet)	Other data
			T. 4 N., R. 3 W.--Continued.										
4/3-17L1	GS	12-17-56	W. Widney		2930	120	Cd 12	T 5		Dm	TapE 0.91	102.96	
	U-25	1-15-32	M. Hughes								Bcl 0	88.5	Wp
	CDE-75	2-26-17	F. E. Harrison	1912		81	D	L W				78.2	
17N1	GS	5-14-56	W. G. Roberts	1951	2875	145	C 12	N N	540	Un	Tcc 1.0	45.10	
17-1	U-29	5-17-34	Zeiger				14			Dm	Tc 2.7	26.9	Wp
	CDE-27	2-25-17	D. W. McPherson		2862.4		C 7	L W				20.4	
18A1	GS	2- 5-57	E. MacGillevary	1956	2875	101	C 8	T 1		Dm	Na		L
18E1	GS	11- 5-57		1926	2865		C 12	T G			Hpb 1.0	47.18	W
	GS	4- 5-56									Hpb 1.0	42.78	
	U-28	5- 5-32	C. O. Evans		2866.58					I	Hpb 1.0	20.8	Wp
18E2	GS	1-31-57			2865	40	6	N N		Ds			
	U-28a	1-15-32								Dm		27.2	Wp
18H1	GS	5-15-56	C. Michael	1948	2860	36		N N		Ds		dry	
18H2	GS	5-15-56	C. Michael	1951	2860	69	C 11	J 3/4		Dm	Na		L
18H3	GS	6-13-56	C. Cabage	1956	2860	98	C 10	T 1½		Dm	Na	43	
18H4	GS	6-13-56	C. Cabage	1950	2860	76	C 8	J 1½		Dm	Tc 1.0	44.04	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 4 N., R. 3 W.--Continued.										
4/3-18H5	GS	6-13-56	R. C. Badger	1953	2860	66	C 10	J 1½		Dm	Na		
18H6	GS	2- 5-57	P. V. Reeves	1950	2870	71	C 8	J 3/4		Dm	Na		L
18H7	GS	2- 5-57	B. Dunbar	1950	2870	74	C 8	N N		Un	TcN 0	43.45	
18H8	GS	2- 5-57	B. Dunbar	1956	2870	74	C 8	Ts 1		Dm	Na		L
18R1	GS	5-14-56	B. Basura	1955	2875	120	10	J 5		Dm,I	TcS 1.0	45.08	
18R2	GS	5-14-56	A. Massaro	1950	2875	75	C 10	J ½		Dm	TcN 0	44.29	
18-1	U-27	5-17-34			2868.9					T	Tdp .3	25.9	Wp
18-2	U-30	5- 5-32			2870.2							23.5	Wp
19H1	GS	1-25-57	A. Massaro	1942	2900	150	10	J 3/4		Dm	Hpb 1.5	55.39	
19N1	GS	1-25-57			2920		G	T 50		I	Hpb 1.0	138.15	
19R1	GS	4-11-56			2885			N N		Ds			
	U-13	5-17-34					Dr 2			T	Tdp .5	37.1	Wp,W
19R2	GS	4-11-56	Reed		2905	70	10	T 5			Hpb 1.0	54.21	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 4 N., R. 3 W.--Continued.											
4/3-19-1	U-23	2-19-32	C. W. McLester		2890.5		10	L W			Tc	0	28.3	Wp
	CDE-18	2-26-17	G. W. McLester				C 10	N N					22.7	
	F-19G1													Wp
19-2	CDE-19	2-26-17	G. W. McLester				C 12	N N					22.7	
19-3	U-79	1-28-31				26							dry	Wp
	CDE-17	3- 6-17	County well		2899.9		D	N N					12.6	
19-4	U-12	2-19-32			2890.1					T	Tc		(25.0)	Wp
20D1	GS	5-14-56	W. G. Roberts				C 12	J 2		Dm	Tcc	1.5	47.02	
	CDE-26	1917	W. C. Roberts	1915	2868.5	155	C 12	C G	1125				20.0	
20H1	GS	10-31-56	H. O. Perry	1946	3080	300		T 15		Dm,I	Bpb	1.0	242.75	
20K1	GS	10-31-56	W. C. Fricke		3000			T 30		Dm,I	BpbE	0	139.84	
	U-16	12-21-33	N. F. Marsh			180				Dm,I	Tdp		(121.4)	C,Wp
20M1	GS	5-14-56	C. Becker	1947	2890	65	C 8	T 1½	1000	Dm,I	BncW	.5	53.98	
20N1	GS	1-22-57						N N		Ds				
	U-14	12-14-33	A. O. Minister				12			Un	Tc	-.5	34.7	Wp
	CDE-23	2-26-17	Sidney O'Neil		2882.1		C 12	N N					24.5	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well	Diameter (in.)	Pump data: Type and power		Yield (gpm)	Use of well	Water level: Measuring point		Depth to water below ls. (feet)	Other data
			T. 4 N., R. 3 W.--Continued.													
-/3-20P1	GS	4- 5-56				42	C	10	N	N		Ds			dry	
	F-20L1	5-11-54											Tc	0.9	37.1	Wp
	U-15	5-17-34	Allison					10				Un	Tc	.9	36.9	Wp
	CDE-25	1917	J. M. Allison		2883.4	70	C	10	N	N					25.0	
20Q1	GS	1-22-57			2980				T			Un	BpbN	1.0	104.25	
20-1	CDE-76	1917	N. F. Marsh	1915	2969.0	180	C	12	S	G	288				100.0	
20-2	CDE-24	1917	J. M. Allison		2880.1	70	C	10	N	N					30.0	
21E1	GS	1-18-57	Pacific Water Co.		3080				T	20		Ps	TapS	.5	e148.02	C
21M1	GS	10-31-56			3085				T	40						
21M2	GS	10-31-56			3085				L	G						
21-1	U-17	12-21-33	W. O. Wade									Un	Tcr	0	255.4	Wp
	CDE-77	3- 1-17	W. O. Wade	1916	3090.0	650	C	12	L	G					242.0	
29A1	GS	10-31-56	L. M. Jones	1953	3080	300		6	Ts	3		Dm	Tcc	0	e264.90	
29A2	GS	10-31-56	Riness	1950	3080	300		6	N	N		Un	Tc	0	261.71	

e. Pumped recently.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well	diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: Depth to water below ls (feet)	Other data
			T. 4 N., R. 3 W.--Continued.											
4/3-29A3	GS	10-31-56	W. G. Shaw	1954	3080	320	C	8	Ts 3		Dm	Tcc 1.0	e264.04	
29E1	GS	4-10-56	S. H. Vail			88		14	T 20		Dm,I	ThcN 0	52.75	
	U-10	5- 1-31	Rayburn								I	Rbc 0	38.4	Wp
	CDE-22	2-25-17	O. A. Minister	1913	2891.2	120	C	12	C G	1350			24.3	
29E2	GS	4-10-56	S. H. Vail			53.0		14	N N		Ds		dry	
	CDE-21	1917	O. A. Minister		2896.3		D		L G	81			30.0	
29E3	GS	1-24-57	S. H. Vail	1956	2890	166	CG	16	T 60	1800	I	TapS .56	59.68	
29M1	GS	4-10-56	S. H. Vail		2890	81			T 25		S,I	Thc -.5	52.90	
29M2	GS	4-10-56	S. H. Vail		2935	53.0		8	N N		Un		f53	
29N1	GS	4-10-56	J. Moore	1952	2920	92		8	J 1		Dm	Na	57	
29N2	GS	4-10-56	J. Wiens	1952	2920	102	C	10	J 1		Dm	TcN .5	57.89	L
29N3	GS	4-10-56	S. H. Vail		2915			12	T 1½			Na		
30A1	GS	4-11-56	F. J. Whicher	1948	2900	72	C	12	T 5		Dm,I	HpbN 1.0	54.64	L
30A2	GS	4-11-56	W. Howell	1948	2900	76	C	12	T 10		Dm	ThcN 0	53.09	L
30A3	GS	1-24-57	C. Smith	1956	2880	100	G	12	N N		Un	TcE 3.0	60.45	

e. Pumped recently.
f. About an inch of water in well.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well	Diameter (in.)	Pump data: Type and power		Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)		Water level: Depth to water below lsd (feet)	Other data
			T. 4 N., R. 3 W.--Continued.													
4/3-30A4	GS	1-31-57		1956	2865				L	W		Dm	Na			
30D1	GS	4- 5-56				40.2		8	N	N		Ds	Tc	1.0	dry	
	F-30E1	5-11-54											Tcr	0	39.5	Wp
	U-9	5-17-34	A. W. Cole									I	Tcr	0	44.8	Wp
	CDE-16	3- 6-17	A. W. Cole	1913	2898.0	162	C	12	C	G	720				32.8	
30D2	GS	1-24-57				4	D		N	N		Ds				
	CDE-15	3- 6-17	A. W. Cole	1914	2897.7	36	D		L	G	63				31.7	
30E1	GS	1-24-57	C. E. Hamann	1906	2880	241		12	T	20	1000	Un	HpbS	0	64.78	
	U-9a	1-18-30										I	Tc		(47.1)	Wp
30E2	GS	1-24-57	C. E. Hamann	1956	2900	156	C	6	Ts	1		Dm	TapW	.5	84.67	
30G1	GS	1-25-57	R. Bragg			125		12	T	30		Dm,I	BpbE	.36	61.36	
	U-11	2-19-32	A. O'Neil									Un	Tbc	1.0	31.5	Wp
	CDE-14	2-26-17	A. O'Neil	1911	2897.7	225	C	12	C	G	1260				16.4	
30H1	GS	4-11-56	C. Niccum	1947	2900	102	Cd	12	T	10		Dm	Na			
30Q1	GS	3- 8-56	H. R. Geer	1946	2900	75	C	8	J	2½		Dm	TcN	0	53.55	
30R1	GS	1-24-57	McClain		2905	67.2	C	10	N	N		Un	TcE	0	66.14	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well	Diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: Depth to water below ls (feet)	Other data
			T. 4 N., R. 3 W.--Continued.											
4/3-30R2	GS	4-10-56	McClain		2905			10	L W		Dm	Tcc 0.4	54.00	
30R3	GS	1-24-57									Ds			
	CDE-20	1917	H. A. Jock		2905.2	54	C	10	L G	315			18.0	
31B1	GS	3- 8-56	Hawks		2905		C	14	T 15		Un	TcE 2.0	45.64	
31B2	GS	3- 8-56	Hawks		2905				J 1/3					
31L1	GS	3- 7-56	W. Hupfeld	1954	2910	300	RG	12	T 25		Dm,I	Na		
31L2	GS	3- 7-56	W. Hupfeld		2910	90		12	L W		Un	TcW 0	39.36	
31L3	GS	3- 7-56	W. Hupfeld		2910	85		12	J 2		Dm	Na		
31L4	GS	3- 7-56	W. Hupfeld	1951	2910	148	G	12	N N		Un	TcW 0	51.89	L
31L5	GS	3- 7-56	W. Hupfeld		2910	100		14	N N		Un	TcN 0	45.94	
	U-8	1-15-32	Laughlin					14				Tc 2	36.9	Wp
31P1	GS	3- 7-56	Lesick					g12	L W			Tbc 0	59	
	CDE-12	2-26-17	I. C. McLaughlin	1905	2910.0	34	C	14	L W				34.0	
31P2	GS	3- 7-56	Taylor		2920						Dm	Na		

g. This well probably has been redrilled. Correlation with CDE number uncertain.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below ls. (feet)	Other data
			T. 4 N., R. 3 W.--Continued.										
4/3-31-1	CDE-13	2-26-17	I. C. McLaughlin	1911	2913.5	52	C 8	C G	468			20.9	
32C1	CS	3- 7-56	V. A. Johnson	1955	3040	242	C 8	L G		Dm	Tc 1.0	200.69	L
32E1	GS	3- 8-56	K. M. Meahl	1955	3000	205	8	Ts E		Dm	Na		L
32M1	GS	3- 8-56	P. Staton		3080		8	Ts 1		Dm	TcS 1.0	216.81	
			T. 4 N., R. 4 W.										
4/4-1A1	GS	6- 7-56	Jess Ranch	1949	2870	180	R 18	T 10		Dm,I	TcN 0	21.05	
1C1	GS	5-24-56	Jess Ranch		2840	30	C 10	J ½		Dm	Na		
1D1	GS	2- 1-57			2840		10	J 5		In	Na		
	U-73	4- 1-20								T	Tc	(10.3)	Wp
1D2	GS	2-1-57	Higrade Materials Co.	1956	2825	50	C 10	T 5	25	In	TcN 1.0	16.44	
1R1	GS	5-24-56	Jess Ranch		2850	130	C 18	T 30		I	TcW 0	30.31	
	U-37	3-25-32								I	Hpb 2.5	12.5	Wp
1-1	U-42	1-31-16			2822.8					T	Tc	(6.4)	Wp

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below l[sd] (feet)	Other data
			T. 4 N., R. 4 W.--Continued.										
4/4-8G1	GS	11- 5-57	Hesperia Land	1954	3165	610	RG 14	N N	1500	Un	TcN 1.0	340.8[illegible]	
	GS	3- 6-57	Development Co.								TcN 1.0	352.9[illegible]	
12B1	GS	2- 8-57				21.0	8	N N		Ds		dry	
	U-75	1- 7-32			2840.0					T	Tc	dry	Wp
12-1	U-75a	4-29-32								T	Tc 1.5	9.8	Wp
12-2	U-36	4- 5-07			2847					T		11.4	Wp
13B1	GS	1-31-57	H. I. Pollard	1949	2850	270	G 14	T 25	1295	I	TcS .5	41.6[illegible]	L
13B2	GS	2- 1-57	H. I. Pollard	1936	2850		16	N N		Un	TcN 0	41.77	
	U-76	1- 7-32								Dm	Tpb	(27.2)	Wp
13B3	GS	1-31-57	H. I. Pollard	1936	2850		10	J 1		Dm	Hpb 1.0	a40.10	
13J1	GS	1-31-57	H. I. Pollard	1936	2850	348	16	T 35	1102	I	TcS 1.[illegible]	44.99	L
	U-77	1-26-31				21.3				Ds	Tc 1.0	dry	Wp
13R1	GS	1-31-57	H. I. Pollard		2850	128.6	16	N N		Un	TcW 1.0	46.88	
	U-78	1- 7-32	Lacey							I	Tal .4	32.0	Wp

a. Pumping.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well	Diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 4 N., R. 4 W.--Continued.											
4/4-21C1	GS CDE-178	3-15-57 1917	Appleton Land, Water, and Power Co.		3200.0	6 753	C	8	N N N N		Ds		342.0	L
24G1	GS	1-25-57	Hesperia Water Co.	1947	2960	450		14	T 100		Ps	Na		L
24N1	GS	1-25-57	Hesperia Water Co.	1947	2995	452	G	14	T 100		Ps	Na		L
25N1	GS F-26G1	3-14-57	Hesperia Water Co.	1947	3040	516	G	14	T 150		Ps	TcS 1.0	202.89	L,W
26C1	GS	3-13-57	Omart Investment Co.	1956	3025	441	RG	14	N N	1860	Un	TcS 2.0	184.99	
26Q1	GS F-26M1	3-14-57	Hesperia Water Co.	1948	3105	385	G	14	T 150	1400	Ps	TcE .5	294.39	W
28E1	GS F-28C1	3-13-57	Hesperia Water Co.		3280	709		14	T 100	400	Ps	TapN 1.0	451.12	C,W
29F1	GS	3-13-57	Hesperia Water Co.	1955	3330	700	G	14	T 200	1000	Ps			
29-1	GS	3-13-57	Appleton Land, Water, and Power Co.	1924	3365	3103	R		N N		Ds			L
35D1	GS	3-14-57	Hesperia Water Co.	1946	3175	706	G	12	T 100	900	Ps	Tc .5		L

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: Depth to water below lsd (feet)	Other data
			T. 4 N., R. 4 W.--Continued.										
4/4-36Q1	GS	2- 6-57	I. C. Black				14	T 40	1300	I	BpbW 1.0	58.68	
	CDE-11	2-17-17	Appleton Land, Water, and Power Co.		2927.0	280	C 14	N N				6.2	
36Q2	GS	2- 6-57	I. C. Black	1946	2925	250	14	T 125	1300	I	TcS .5	51.18	
36Q3	GS	2- 6-57	I. C. Black	1946	2923	250	14	T 150	1300	I	TcN 1.0	49.71	
36Q4	GS	2 -5-57	I. C. Black		2923		C 14	N N		Un	Tcc 1.0	47.97	
	CDE-9	2-17-17	Appleton Land, Water, and Power Co.			113	C 14	N N				3.5	
36R1	GS	2- 6-57	I. C. Black	1946	2920	250	14	T 150	1300	I	TcE .5	47.56	
36R2	GS	2- 6-57	I. C. Black		2920	79.8	14	N N		Un	TcE .5	45.39	
36R3	GS	2- 6-57	I. C. Black		2918		C 14	N N		Un	Na		
	CDE-10	2-17-17	Appleton Land, Water, and Power Co.			202	C 14	N N					
			T. 4 N., R. 5 W.										
4/5-1K1	GS	3- 5-57	C. C. Lackyard	1939	3230	400	R 6	L G		Un	TcE .5	388.93	C
1K2	GS	3- 6-57	R. S. Ward	1948	3233	500	R 6	L 3	20	Dm	Na		

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below l.s. (feet)	Other data
			T. 4 N., R. 5 W.--Continued.										
4/5- 1P1	GS	3- 6-57	E. Ward	1945	3255	420	C 6	L 1		Dm	TcS 0.5	404.19	
3G1	GS	2-19-57	S. M. Lockwood	1955	3310	565	C 10	Ts 2	14	Dm	Tcr -4.2	459.75	L
5R1	GS	2-19-57	C. R. Hudson				C 6	L N		Un	Na		
	CDE-174	4-11-18	Verde Ranch		3390.0	644	C 12	N N				510.0	L
12P1	GS	3- 8-57			3351.5	435.0	12	N		Ds		dry	
	CDE-177	4-12-18	Secord and Black	1914	3351.5	572	C 12	L N				490.0	
18N1	GS	2-21-57			3685		D	N N		Ds		dry	
	CDE-301	1917	F. L. Thomas			330	C 7	N N				dry	
22H1	GS	11- 6-57					C 12	N N		Un	TcW -5.2	670.86	
	GS	2-28-57					C 12	N N		Un			
	CDE-172	1917	L. J. Hampton	1914	3551.9	802	C 12	L G	45			650.0	
27F1	GS	2-27-57	LeRoy Rolar		3665	503	C 8	N N		Un	Na	dry	L
28N1	GS	2-27-57	Mrs. Bessire	1947	3685	300	C	N N		Ds			L
31K1	GS	2-26-57	C. J. Willman	1948	3955	263.3	R 6	N N		Ds		dry	L
34A1	GS	2-27-57	Hunt	1913	3675	800	C 10			Un	Na	750	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 4 N., R. 5 W.--Continued.										
4/5-35C1	GS	3-13-57					12	N	N	Un			
	CDE-170	1917	F. H. Hunt	1913	3613.9	816	C 12	L	N			750.0	
			T. 4 N., R. 6 W.										
4/6-15J1	GS	2-21-57					C 12			Un	Na		
	CDE-171	1917	S. Zacsek	1912	3800.0	909	C 12	L	G	9		869.5	
23B1	GS	2-22-57	J. C. Dahle		3825	h258	C 8	N	N				
23M1	GS	2-21-57	T. C. Cope		3920	1030	12	N	N	Un			
26P1	GS	2-26-57	Cheney		4045	h282.6	C	N	N				
35C1	GS	2-26-57	Bullock		4095	h125.9	C 14	N	N				
			T. 4 N., R. 7 W.										
4/7-7K1	GS	12- 7-56	Stella Wyman	1951	3965	700	C 8	N	N	Un			(j)
8M1	GS	12- 7-56	Schwartz		3910	900	C 6	N	N	Ds			(j)
8M2	GS	12- 7-56	Marcus Jones	1955	3925	394.1	C 12		N	Ds			dry

h. Drilling.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below ls. (feet)	Other data
			T. 4 N., R. 7 W.--Continued.										
4/7-14M1	GS	1- 4-57					10	N	N		Na		
23L1	GS	12-13-56	Wesley		4235	6500	R		N	N	T	Na	
27A1	GS	12-12-56	Beekly		4425	503.6	C	8	N	N	Ds		dry
27H1	GS	12-12-56	Beekly	1943	4530	975	C	8	N	N	Ds		dry
33H1	GS	12-13-56	Link		4860	200	C		N	N	Ds	Na	dry
35G1	GS	12-11-56	J. L. Lovett	1951	4715	400	C	8	L	E	Dm	Na	
35L1	GS	12-11-56	A. L. Mogler		4680	95	Cd	8	L	G	Dm	Na	80
35L2	GS	12-13-56	L. L. Washburn		4685	110	D	36	L	1	Dm		105
35P1	GS	12-13-56	Bentley		4755	300	R		N	N	Ds		dry
			T. 5 N., R. 1 W.										
5/1-29M1	GS	11-30-56	O. L. Roberts	1947	3045	210	C	8	L	W	Dm	Tc	0.4 195.64
30M1	GS	5-23-57	William Logan	1957	3160		C	8	N	N	Un	TcS	1.0 297.79

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: Depth to water below lsd (feet)	Other data
			T. 5 N., R. 1 W.--Continued.										
5/1-31B1	GS	11-30-56	William Logan		3050	220	8	L W		Dm		(d)	
31C1	GS	11-30-56	William Logan		3075	252		Ts 2		Dm	Bnc 0.4	197.61	
31H1	GS	11-30-56		1956	3005	182.5	4	N		Un	Tc 1.5	130.08	
31J1	GS	12- 4-56	Z. V. McBride	1937	3000	134	9	Ts 1½	15	Dm	Tc 2.5	119.39	L
32M1	GS	12- 4-56	Z. V. McBride	1946	2980	185	14	T 30	325	I	Bnc 1.0	105.19	
32P1	GS	12- 4-56	Hazel Grigsby	1950	2960	80	CG 10	L W	250	Dm	Na		
32P2	GS	12- 4-56	Hazel Grigsby	1950	2955	80	CG 10	N N	250	Dm	TcW .8	66.94	
			T. 5 N., R. 2 W.										
5/2- 3P1	GS	1-17-57			3195	270	12	N		Ds			
3-1	DGT-344	1917	A. G. Trendell					N				298.0	C
4A1	GS	1-17-57	E. A. Payne	1957	3180	137	C 8	N		Ds			

d. Tape smears.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well	Diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 5 N., R. 2 W.--Continued.											
5/2- 4-1	DGT-343	1917	H. F. Anders			175	D						dry	
5R1	GS	1-18-57	Newton Bass		3130			6	L W		S	Na		
6F1	GS	1-18-57	Rudy Gelaski	1955	3180			8	Ts 1½		Dm	Na		
8D1	GS	1-18-57	M. S. West	1954	3120	365	R	9	L	2	Dm	Na		L
8A1	GS	1-18-57			3100		C	12	N		Un	Tc	2.6	231.83
9D1	GS	1-18-57			3115	275.8	C	7	N	N	Un	Tc	3.0	236.31
10-1	DGT-345	1917												4.0
12-1	DGT-346	1917												25.0
18D1	GS	1-18-57									Ds			
	CDE-137	1917	W. H. Bronson				D							132.0
18G1	GS	1-18-57	Fred Cain	1953	3000	200	C	8	J	2	Dm	Na		145
19K1	GS	1-15-57	Smith	1945	3010	176.5	C	8	N	N	Un	TcS	1.0	170.21
19M1	GS	1-15-57	T. A. Drake	1945	2960	130	R		N	N	Un	Tap	1.0	121.66

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 5 N., R. 2 W.--Continued.										
5/2-19M2	GS	1-15-57	T. A. Drake	1952	2960	200	RG 6	Ts 1		Dm	Tap 1.0	122.42	
19M3	GS	1-22-57	F. B. Robinson	1951	2960	202	CG 8	Ts 3/4		Dm	Na		
19M4	GS	1-22-57	J. N. DeGuire	1947	2960	151	C 8	J 1		Dm	TcN .5	125.02	L
19N1	GS	1-15-57	C. V. Bennett	1945	2965	149	RG 8	N N		Un	Tc .3	130.16	
19N2	GS	1-15-57	C. V. Bennett	1952	2965	214	RG 8	Ts 1		Dm	Tap 1.0	128.68	
19-1	CDE-329	1917	F. H. Nett				D	N N				98.0	
19-2	CDE-330	1917	Hitchcock				D	N N				100.0	
25A1	GS	11-30-56	L. W. Luley	1950	3280	245.6	C N	N N		Ds		dry	L
25A2	GS	11-30-56	Baldridge	1956	3240	257.8	C 12	N N		Ds		dry	
30D1	GS	11-15-56				84.2	8	N N		Ds		dry	
	CDE-110	3- 3-17	H. Meacham		2960.0		C 10	N N				109.0	
30D2	GS	11-15-56	Hyland		2955	545.4	14	N N		Un	Bnc 1.0	112.48	
31M1	GS	11- 9-56	M. Faust	1951	2975	236.4	10	N N		Un	TcW 1.0	153.74	L

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 5 N., R. 2 W.--Continued.										
5/2-32F1	GS	11-29-56	R. Mefferd			46.4	12	N N		Ds			
	CDE-154	3- 3-17	E. Deasley		3025.7	307	C 12	N N				170.0	
32G1	GS	11-29-56	R. Mefferd							Ds			
	CDE-155	3- 3-17	J. B. Davis		3011.5	200	C 10	L W				160.7	
32K1	GS	11-29-56	R. Mefferd	1948	3020	350	RG 16	T 60	600	I	Hpb 4.0	173.77	C,L
32M1	GS	11-29-56	L. Dillenpeck	1956	3040	258	CG 6	Ts 1½		Dm	Tcc 1.0	187	
32P1	GS	11-29-56	Robert Murphy	1951	3025	570	RG 12	T 60		I	Bpb 1.0	177.34	C
33L1	GS	11-29-56	Carl Becker	1956	3040	242.5	8	N N		Un	Tc 1.0	181.18	
33M1	GS	11-29-56	R. M. Sickles	1948	3035	297	G 6	Ts 2		Dm	Tcc .3	180.43	
33N1	GS	11-29-56			3030	227.6	12	N		Un	Tc 1.0	161.25	
			T. 5 N., R. 3 W.										
5/3-2N1	GS	4-16-57								Ds			
	CDE-141	1917	J. S. Nation				C 6	N N				108.0	
2-1	CDE-140	3- 4-17	E. H. Keller				D	N N				116.7	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: Depth to water below lsd (feet)	Other data
			T. 5 N., R. 3 W.--Continued.										
5/3-2-2	CDE-142	3- 4-17	G. Green			165	D	L G				157.6	
3C1	GS	4-17-57	G. L. Van Antwerp	1948	2915		C	T 1		Dm	Na		
3E1	GS	4-17-57	R. Lewis				14 T	15		I	BpbN 0	88.63	
	GS	4- 5-56									BpbN 0	87.99	
	BR-31 F-3D1		Lewis well		2914.2					Dm,I			W Wp
3G1	GS	4-17-57	L. Geerton	1947	2925	187.0	C 9	J 1		Dm	TcN .5	98.35	
3H1	GS	4-16-57	M. Simich	1956	2930	172	RG 9	Ts 1½		Dm	TcS .3	91.22	
3J1	GS	4-16-57	A. J. Young	1952	2940	115	C 8	L W		Dm	BncW .6	85.88	C
3M1	GS	4-17-57			2911			Ts E		Dm	Na		
3Q1	GS	4-17-57	Antonio Bioletto	1949	2917	107	CG 8	T 1½		Dm	Na	71	L
4A1	GS	4-17-57	H. Iams	1954	2920	301	R 8	T 30		I	Hpb .65	106.21	
4B1	GS	4-18-57	H. Saarloos	1956	2920		RG 12	T 15		I	Hpb .8	92.06	
4G1	GS	4-17-57								Ds			
	CDE-143	3- 5-17	G. B. Holbrook			97	D	L W				72.8	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well	Diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below ls (feet)	Other data
			T. 5 N., R. 3 W.--Continued.											
5/3-4J1	GS	4-17-57	Iverson Ranch	1940	2913				L W		Dm	Na		
4L1	GS	4-18-57	George McCarthy	1955	2917		RG	12	T	5	Ps	TcE	0.5	79.17
4-1	CDE-144	1917	G. B. Holbrook	1909		94	C	7	L	W				80.0
5A1	GS	4-18-57	H. Saarloos		2920	151.6		10	N	N	Un	Tcc	.4	90.25
5H1	GS	4-18-57	H. Saarloos		2920	183.9		12	N	N	Un	Enc	0	90.60
5Q1	GS	4-25-57	W. Rawe	1947	2927		C			E	Dm	Na		
5R1	GS	4-18-57	A. H. Bakovic	1950	2920	162		6	J	1	Dm	Tcc	1.0	89.36
6N1	GS	4-22-57			2960	3	D		N	N	Ds			
	CDE-149	1917	A. B. Edmonds				D		N	N				
7H1	GS	4-22-57		1949	2945			6	L	N	Un	TcN	1.0	113.40
7H2	GS	4-22-57	R. Agee	1947	2940			12	L	W	Dm	Na		
7-1	CDE-148	1917	G. A. Ground	1917		133	D		N	N				130.0
8G1	GS	4-23-57	A. Fleming						N	N		Na		
	CDE-129	3- 5-17	M. M. White			90	D		L	W				88.0

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 5 N., R. 3 W.--Continued.										
5/3- 8N1	GS	4-23-57								Ds			
	CDE-127	1917	Robert Cook		2925.0	125	C 10	L G				109.2	
8-1	CDE-125	1917	Robert Cook				D	L W					
8-2	U-56	1-20-31									Tcr 1.8	104.3	Wp
	CDE-126	1917	Robert Cook		2918.0	170	C	N N				106.0	
8-3	CDE-130	1917	J. J. Hill		2950.9		D	N N				72.0	
9D1	GS	4-23-57	J. Mrzena	1951	2920	203	CG 10	T 2		Dm	Na	83	L
9D2	GS	4-25-57	J. Mrzena	1945	2920	125	C 8	L H		Un	TcW .6	86.50	
9G1	GS	4-23-57	C. Myers	1948	2910	179	C 12	J 1		Dm	TcW 1.0	78.75	
9G2	GS	4-23-57	T. W. Darrow	1946	2915	165	6	Ts E		Dm	Na		
9J1	GS	4-23-57								Ds			
	U-54	4-29-32	F. A. Fletcher				7			Un	Tc .5	76.2	Wp
	CDE-132	2-28-17	F. A. Fletcher		2905.5	213	C 7	N N	18			77.4	
9-1	U-55	2-17-33									Tbc 1.0	88.2	
	CDE-131	3- 5-17	F. A. Fletcher		2910.0	458	C	C G				89.1	
	F-9K1												

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 5 N., R. 3 W.--Continued.										
5/3-10G1	GS	4-23-57	M. Madyag	1949	2900	153	R 8	Ts 1		Dm	Tcc 1.0	73.79	
10G2	GS	4-23-57	L. H. Coffman	1950	2900	103	CG 8	T 2		Dm	Na		
10K1	GS	4-23-57	M. Tracy				C 12	L N		Un	Tcc 2.0	78.61	
	CDE-134	1917	J. W. Kyle	1915	2903.6	218	C 12	S G	135			72.0	
10K2	GS	4-23-57	M. Tracy		2904			J E		Dm	Na		
10M1	GS	4-23-57						N N		Ds			
	CDE-133	1917	O. S. Overholt	1902	2905.5	85	D	L G				77.5	
10N1	GS	4-24-57	M. C. Wightwick	1946	2903			L W		Un	Tcc .6	83.36	
10N2	GS	4-24-57	R. Lambrix		2903					Dm	Na		
10P1	GS	4-23-57	J. B. Brooks	1957	2905	171	RG 9	N N		Un	TcN .7	80.91	L
10P2	GS	4-23-57	A. Jost	1956	2903	150	RG 8	Ts ½		Dm	Bnc .8	79.03	L
10P3	GS	4-23-57	D. Kiley	1956	2905	152	RG 9	Ts 1	25	Dm	BncE 1.0	78.38	L
10-1	CDE-135	3- 5-17	J. F. Fitzsimmons			80	D	N N				77.6	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below ls (feet)	Other data
			T. 5 N., R. 3 W.--Continued.										
5/3-11A1	GS	4-24-57	Schullstrom		2943			Ts E		Dm	Na		
11A2	GS	4-24-57			2935		R 8	T 3		Dm	TcS	1.0	98.31
11B1	GS	4-24-57			2930			L H		Dm	Tc	.4	94.69
11C1	GS	4-24-57	L. H. Coffman	1947	2915	153	C	L 1		Dm	Na		
11C2	GS	4-24-57	A. Cawrse		2910	105	8	Ts E		Dm	Na		C
11D1	GS	4-24-57	G. Bonsmace		2915		8	Ts E		Dm	TcS	1.0	74.91
11F1	GS	4-24-57	A. Fields	1955	2915	93	8	T 5		Dm	Na		
12A1	GS	4-24-57	F. C.Mitchell	1912	2994	205.5	12	N N		Un			
12F1	GS	4-24-57	W. Hunton					N N		Ds			
	CDE-139	1917	M. Liebold		2950.9		D	N N					
12F2	GS	4-24-57	W. Hunton	1952	2950		14	Ts E		Dm	Tcc	.4	93.74
12H1	GS	4-24-57	F. Mitchell					N N		Ds			
	CDE-136	3- 4-17	E. D. Mitchell		2965.9		C	N N				126.0	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below l.s.d. (feet)	Other data
			T. 5 N., R. 3 W.--Continued.										
5/3-12M2	GS	4-11-57	F. Mitchell	1953	2973	172	C 8	Ts E		Dm	Tcc 1.0	128.29	L
12-1	CDE-138	1917	C. M. Abbeys		2947.3	127	D	N	N				
13D1	GS	4-24-57			2930		6	L	W	Dm	TcN .6	92.51	W
	GS	4- 5-56									TcN .6	91.60	
14D1	GS	4-25-57						N	N	Ds			
	CDE-117	1917	Hatch		2906.6		D	N	N			dry	
14E1	GS	4-25-57				92.5	C 12	N	N	Un	TcN 1.6	90.64	
	CDE-116	4- 4-17	E. D. S. Pope	1913	2913.0	160	C 12	N	N			78.3	
14G1	GS	4-25-57			2916		C 8	N	N	Un	Tcc 1.0	81.64	
14K1	GS	4-25-57	R. G. Patton		2916		6	Ts 1		Dm	TcS .6	84.78	
14K2	GS	4-25-57	R. Colbern	1951	2915			T 2		Dm	Na		
14K3	GS	4-25-57			2915	42.0	6	N	N	Ds		dry	
14N1	GS	4-25-57				85.6	D	N	N	Ds		dry	
	CDE-115	3- 3-17	S. Miller		2926.0		D	L	W			87.3	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below ls. (feet)	Other data
			T. 5 N., R. 3 W.--Continued.										
5/3-14-1	U-52a	4-29-32									Tcr	(79.2)	Wp
	CDE-114	3- 3-17	N. A. Graffin		2916.0	92	D L G					80.0	
15A1	GS	4-26-57	Courtis Marshall		2917	260	6 L W			Dm	TcS 0.5	83.07	C
15B1	GS	4-26-57	C. Walters		2918	100	R 9 Ts 1			Dm			
15D1	GS	4-26-57	L. Birkett	1949	2918	120	CG 6 L W			Dm	Na		
15D2	GS	4-26-57	R. Oliver		2917		8 C 1			Dm	TcN .3	84.30	
15G1	GS	4-26-57			2922		L H			Un	Na		
15H1	GS	4-26-57			2922		10 Ts E			Dm	Na		
18F1	GS	4-30-57	Apple Valley Ranchos Water Co.				C 14 T 40		275	Ps	HpbS 1.7	123.69	C,W
	GS	4- 5-56	Apple Valley Ranchos Water Co.								HpbS 1.7	117.30	
	U-57	3- 2-33									Tcp 1.0	105.4	Wp
	CDE-123	2-27-17	J. D. Humiston	1913	2908.0	464	C 14 L N					97.0	
18R1	GS	4-26-57	Apple Valley Ranchos Water Co.				C 12 N N			Un	TcE 1.0	m63.73	
	CDE-120	2-27-17	A. E. Dennis		2929.4	184	C 12 N N					125.8	

m. Measurement verified.

Tabl... 5N/3...

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below ls (feet)	Other data
			T. 5 N., R. 3 W.--Continued										
5/3-18-1	CDE-121	2-27-17	Cochran		2933.5	144	D	L W				143.0	
18-2	U-58	4-29-32									Tcr 0.1	134.1	Wp
	CDE-122	2-27-17	Cochran		2933.5	142	D	N N				138.0	
18-3	CDE-124	1917	J. M. Raphael		2925.0		D	N N					
19A1	GS	4-26-57	Apple Valley Ranchos Water Co.	1955	2935	550	RG 16	Ts 150	826	Ps	Tap -5.0	100.53	
19E1	GS	11- 5-57			2875	155.8	G 8	N N		Un	TcS .5	100.34	
	GS	4-30-57									TcS .5	99.36	
19E2	GS	4-30-57	G. Widney	1947	2875	160	C 8	Ts 3		Dm	Na		
19N1	GS	4-30-57	F. C. Snyder					T 7½		Dm,I	Hpb .2	61.38	
	CDE-59	1917	M. L. Foster		2835.0	100	C	L G	360			48.0	
20F1	GS	4-30-57			2890	4		N N				dry	
	CDE-119	1917	M. W. Minor			147	D	L N				dry	
20P1	GS	4-30-57			2930		12	L 3		Dm	TcSE 1.0	155.19	
20-1	CDE-118	1917	M. E. Gibson			138	D	L W					

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below l.s. (feet)	Other data
			T. 5 N., R. 3 W.--Continued.										
5/3-22A1	GS	11- 5-57	R. Werner	1946		267	12	T 20		Dm,I	Tap 1.2	97.96	C,L,W
	GS	5- 1-57									Tap 1.2	a113.70	
	CS	4- 5-56									Tap 1.2	95.60	
	F	12- 8-55									Tap 1.2	95.70	
	BR-32	11- 7-50	Rothwell well		2923.6					Dm,I	Tap 1.2	90.55	
22A2	GS	5- 1-57	R. White	1947	2925	133	Cd 8	J 1		Dm	Na	98	
22E1	GS	5- 1-57				30.5	12	N N		Ds			
	CDE-128	2-28-17	C. E. Van Horn		2941.5	185	C 12	L W				107.7	
22H1	GS	5- 1-57	R. White		2930	129	8	L ¼		Dm	TclW .8	100.66	
22J1	GS	5- 1-57	B. A. Ondo	1952	2940	420	RG 12	T 25		Dm,I	Bnc .2	127.25	
22K1	GS	5- 1-57	L. Ward	1954	2940	130	CG	C E		Dm,In	Na		
22K2	GS	5- 1-57	L. Ward	1952	2940			J 2		Dm	Bpb .3	109.86	
22N1	GS	5- 1-57						N N		Ds			
	CDE-106	2-28-17	H. C. Decker	1909	2944.7	722	C 10	L G				107.7	
22Q1	GS	5- 1-57	White		2940		8	T 2		Dm	TcN .6	113.20	

a. Pumping.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well	Diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: Depth to water below lsd (feet)	Other data
			T. 5 N., R. 3 W.--Continued.											
5/3-22-1	U-53	4-29-32										Tcr 0.3	103.8	Wp
	CIE-107	3- 2-17	N. Elmer		2939.0	119	D		N N				101.9	
23B1	GS	5- 2-57	H. C. Forsberg	1947	2920	153	RG	6	L W		Dm	Tcc .5	82.44	
23B2	GS	5- 2-57	G. Thomason	1955	2920	177	RG	8	Ts 1		Dm	TccW .7	88.91	
23C1	GS	5- 2-57	H. L. Farnham	1949	2925		C	6	J 1½		Dm	TcE .2	92.73	
23F1	GS	5- 2-57	Meadows		2930			8	Ts 1½		Dm	TccW .7	110.18	
23G1	GS	5- 2-57			2925	122.1	C	6	N N		Un	TcS .8	95.02	
23H1	GS	5- 2-57	B. W. Cowan		2920			8	C 3/4		Dm	Tcc .7	93.16	
23H2	CS	5- 2-57	T. V. Smith	1947	2925	153	C	8	T 7½		Dm,I	Na		L
23H3	GS	5- 2-57	H. Holter		2920				Ts ½		Dm	Na		
23H4	GS	5- 2-57			2920			8	J 1		Dm	Na		
23H5	GS	5- 2-57			2920			8	Ts 1		Dm	TcS .74	91.30	
23Q1	GS	5- 2-57	B. F. Caddie	1955	2930	204	RG	8	Ts 1	291	Dm	Tcc 1.5	99.32	L

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below ls (feet)	Other data
			T. 5 N., R. 3 W.--Continued.										
5/3-23Q2	GS	5- 2-57	M. Woodbury		2930	169	8	Ts ½		Dm	Tcc	1.0	103.48	
23R1	GS	5- 2-57	F. G. Goes		2930		RG 10	T 5		Ps	Tap	2.0	96.82	
23R2	GS	5- 2-57	L. L. Unmack		2930		8	Ts 1		Dm	Na			
24B1	GS	5- 3-57	E. Riebe	1955	2955	158	CG 10	J 3		Dm	TcS	2.0	e122.41	
24D1	GS	5- 2-57			2920	80.5	12	N N		Ds				
	U-52	4-29-32								Un	Tc	1.3	81.3	Wp
	CDE-113	1917	Verde Ranch			300	C 12	N N					80.0	
24D2	GS	5- 2-57	M. Schmoller	1955	2920	216	RG 8	J ½		Dm	TcE	1.4	85.02	L
24D3	GS	5- 3-57			2920	197	RG 8	T 5		Dm,I	Na			L
24E1	GS	5- 3-57			2920			N N		Ds				
	CDE-112	3- 4-17	Harlan			155	C 12	L N					81.8	
24E2	GS	5- 2-57	L. J. Cowan	1954	2920	220	RG 10	T 10		I	Hpb	1.0	117.30	
24E3	GS	5- 2-57	L. J. Cowan	1954	2920	250	C 12	Ts ½		Dm	Tcc	0	90.10	C
24F1	GS	5- 3-57	W. C. Brixey	1953	2925	150	C 8	Ts ½		Dm	Bnc	.7	94.51	

e. Pumped recently.

Table

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: Depth to water below l.s.d. (feet)	Other data
			T. 5 N., R. 3 W.--Continued.										
5/3-24F2	GS	5- 3-57	C. Jones		2920		10 T	5		Dm,I	TcS	0.2	98.01	
24H1	GS	5- 3-57	J. P. Zimmerman		2935	220	10 T	2		Dm	Na			
24M1	GS	5- 3-57	B. B. Matthews, Jr.	1950	2923		8 Ts	3		Dm	TcS	.5	98.32	L
24N1	GS	5- 3-57	R. Douglas	1920			12 Ts	3/4		Dm	Tcc	1.5	96.63	
	GS	4- 5-56									Tcc	1.5	104.70	
	ER-33		Douglas well		2927.7			W		Dm	Tc	1.0		W
24P1	GS	5- 3-57	H. B. Jones		2935			E		Dm	Na			
24-1	CDE-111	3- 2-17	Rau	1917		183	C 12	N	N				87.1	
25A1	GS	11-15-56			2950		8	J	E	Dm,S	TcE	.8	112.81	
25C1	GS	11-15-56	A. Schlessler		2935		G 10	T	15	Dm,I	Bnc	.5	104.56	
25C2	GS	11-14-56			2935		10	T	7½	Dm,I	TcS	1.0	99.96	
25D1	GS	11-15-56	McGinty	1947	2930	152	R 8	J	2	Dm	Na		90	
25D2	GS	11-15-56	J. Holme	1946	2930	203	G 8	Ts	1	Dm	Tcc	.5	99.24	
25D3	GS	3-26-57	R. E. Pollard	1957	2930	159	C 6	Ts	1	Dm	Tcc	.5	101.51	L

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: Depth to water below lsd (feet)	Other data
			T. 5 N., R. 3 W.--Continued.										
5/3-25E1	GS	11-14-56	Winters		2940	200		E		Dm	Na		
25G1	GS	11-15-56	M. Faust	1951	2940	180	G 8	N	N	Un	Tcc 1.0	105.74	C
25H1	GS	11-15-56	M. Faust	1956	2940	500	G 12	T	20	I	Tap .4	e114.54	
25H2	GS	11-15-56	M. Faust	1951	2940	186	G 10	N	N	Un	Tap 2.3	107.45	
25K1	GS	11-14-56			2950			E		Dm	Na		
25K2	GS	11-14-56	C. O. Doak	1948	2955	168	RG 6	L	2	Dm	Na	120	
25L1	GS	11-14-56			2945					Dm	Na		
25L2	GS	11-14-56	G. Von Gruben		2945	160	8	Ts	3/4	Dm	Tcc 1.0	113.43	
25M1	GS	11-14-56	J. P. Bellott	1950	2940	142	9	Ts	1 35	Dm			L
25M2	GS	11-14-56	T. J. Bennett	1948	2940	175	C 8	Ts	2	Dm	Tc .5	111.57	
25R1	GS	11- 9-56	Charles Kunz	1954	2970	303	RG 8	Ts	5 275	Dm	Tcc -3.0	142	
25R2	GS	11- 9-56	De Villneuve	1954	2970	265	R 8	L	W	Dm	TcN 1.0	145.84	

e. Pumped recently.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below l... (feet)	Other data
			T. 5 N., R. 3 W.--Continued.										
5N/3-25-1	CS	11-16-56	P. H. Pernworth	1951		184	CG 10		280				L
26F1	GS	11- 8-56	Pacific Water Co.	1953	29[illegible]5	504	RG 12	T 40	1215	Ps	Na		L
26H1	GS	11-14-56					D	N	N	Ds			
	U-51	2-17-33	R. O. Sperry							Un	Tbc 0.2	100.4	Wp
	CDE-109	3- 2-17	R. D. Sperry		2938.4	111	D	N	N			97.8	
26R1	CS	11-14-56					10	N	N	Ds			
	CDE-94	1917	B. Peaks		2946.8	150	D	L	G			100.0	
26-1	CDE-108	3- 2-17	L. L. Lytle		2939.0	101	D	N	N			98.3	
27A1	GS	11-27-56			2940		8½	N	N	Un			
27A2	GS	11-27-56	Ballard		2945	165	10	T	5	Dm,Ps	TcS .4	113.46	
27C1	GS	11-27-56	Gene Nadeau		2950	146	10	L	W	Dm	Tcc .5	128.80	
27D1	GS	11-27-56	W. F. White	1947	2945	165	C 8	T	3	Dm	Na	113	
27E1	GS	4-31-57	Apple Valley Ranchos Water Co.	1953	2955	743	RG 20	T 250	2165	Ps	HpbE 1.0	138.95	C,L

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well	Diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: Depth to water below lsd (feet)	Other data
			T. 5 N., R. 3 W.--Continued.											
5/3-27F1	GS	11- 5-57	L. Ahntholz		2955	156.7		6 N	N		Un	Tc 1.2	129.28	
	GS	11-27-56										Tc 1.2	127.56	
27F2	GS	11-27-56			2950			4 L	W		Un	Tcc .8	124.12	
27J1	GS	11-16-56	Stoetzel	1946	2950			10 T	3		Dm	Na		
27L1	GS	11-16-56	L. Canuti		2950	165		8 L	W		Un	TcN .6	130.48	
27L2	GS	11-16-56	D. J. Saals	1952	2950	160		4 L	W		Dm	Na		
27N1	GS	11-16-56			2965	137.4		12 N	N		Ds			
	CDE-104	1917	A. G. Kent	1916		253	C	12 N	N				127.0	
27P1	GS	11-16-56	Dale Werts	1947	2960	220	CG	10 J	3	60	Dm	Na		
27Q1	GS	11-16-56	K. L. Bechtold	1955	2960	178	RG	8 Ts	1½		Dm	Na		
28A1	GS	11-27-56	Apple Valley Ranchos Water Co.					14 N	N		Un	Na		C
	CDE-105	5-15-12	W. W. Hitchcock	1912	2951.5	492	C	14 T	G	450			112.0	L
28N1	GS	10-30-56						10 N	N		Ds			
	CDE-102	1917	A. S. Kibbey	1910	2975.9	400	C	10 T	G	477			130.0	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below ls (feet)	Other data
			T. 5 N., R. 3 W.--Continued.										
5/3-29M1	GS	10-30-56	Newton Bass		2965		T	7½		Ps	Hpb 2.0	160.33	
29-1	CDE-103	1917	K. Evans	1915	2968.0	207	C 12	L G	135			155.0	
30E1	GS	10-30-56	Cox	1954	2840		14	T	20	Dm,I	Hpb 1.0	57.58	
30N1	GS	6-21-56	W. Pattison			93	C 12	T	15 540	I	Na	54	L
	CDE-62	2-24-17	W. B. Ames		2845.8		C 12	C G				47.6	
30N2	GS	6-21-56	W. Pattison	1944	2850	100	C 12	T	40 900	I	Bnc 0	58.37	
30N3	GS	6-21-56	W. Pattison			100	14	T	25 900	I	TcW 0	(d)	
	U-48	6- 2-32									Tcr .2	49.0	Wp
	CDE-61	2-24-17	Victor Ranch	1905	2845.8	500	C 12	C G	1125			55.3	
30-1	CDE-63	2-24-17	W. B. Ames		2848.0		C 12	C G				47.6	
31B1	GS	6-21-56	W. Pattison	1954	2860	228	CG 16	T	40 1400	I	Na	45	L
31D1	GS	6-21-56	W. Pattison					Ts	1	Dm	Na		
	U-47	3-24-32	Pacific Farm Lands Co.							Dm,I	Hpb 1.33	28.27	Wp
	CDE-60	2-24-17	E. P. Dewey	1903	2850.0	545	C 8	C G	1125			23.5	

d. Tape smears.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (ins.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below ls (feet)	Other data
			T. 5 N., R. 3 W.--Continued.										
5/3-31D2	GS	6-21-56	W. Pattison	1946	2850	98	10 T	20	720	I	Tap 1.0	67.58	
31E1	GS	6-21-56	Stoddard Jess		2855		T	75		P	Hpb .5	60.98	
31E2	GS	6-21-56	C. W. Cambridge	1942	2855	96	C 14 T	15	540	I	Hpb 1.0	69.18	
31E3	GS	6-21-56	C. W. Cambridge	1956	2855	80	C 8 T	3		Dm	TcE 1.5	59.06	
31E4	GS	6-21-56	J. Davies	1951	2850	79	Cd 12 Ts	E		Dm	Na		
31Q1	GS	6-20-56	E. J. McElroy		2865		T	2		Dm	Hpb 1.0	64.51	
31Q2	GS	6-20-56	E. J. McElroy		2860	118	G 16 T	30		Dm,I	Bnc .5	72.02	
31Q3	GS	2- 8-57	E. J. McElroy	1957	2850	h92	C 8 N	N		Dm		62	L
31R1	GS CDE-66	6-20-56	V. Odle L. C. Bailey	1912	2865.0	125	C	T 20 C G		Dm	TcE 0	64.39	
31R2	GS	6-20-56	V. Odle	1955	2870	198	RG 14 N	N	1844	Un	Bnc 0	64.19	
31-1	CDE-64	1917	W. C. Smith				C 12 N	N					
31-2	CDE-65	2-24-17	S. L. Wheatley		2863.8		C 12 C	G				45.3	

h. Drilling.

Table 1
5N/3W

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: Depth to water below ls (feet)	Other data
			T. 5 N., R. 3 W.--Continued.										
[illegible]-32P1	GS	11-29-56	Robert Abbott	1947	2985	501		T 10		I	Na		C,L
32P2	GS	11-28-56	J. P. Both	1952	2955	165	C 8	L 3/4		Dm	TcS 0.5	(d)	
32H1	GS	4- 5-56	Newton Bass					T 15		Dm,I	Hpb .8	168.50	W
	BR-35	11-14-50								Dm	Hpb .8	162.9	
	CDE-101	2-27-17	Theresa Smith	1915	2986.8	269	C 12	N N				151.8	
32L1	GS	10-30-56	J. Godshall			304	14	T 25		Dm,I	Hpb .5	184.53	C,L
	U-45	1-27-31	Ihmsen							Dm,I	Tal	(169.9)	Wp
	CDE-100	1917	M. F. Ihmsen	1912	2994.7	300	C 14	T G	630			164.0	
32N1	GS	10-30-57	M. M. Brady	1952	2985	300	10	N N		Un	TcE 1.5	179.36	L
32-1	CDE-99	1917	W. Paine		2994.5	167	D	L W				160.0	
33M1	GS	11- 2-56					D	N N		Ds			
	CDE-98	2-17-17	T. J. Anderson		2987.3	167	D	N N				157.4	
33N1	GS	11- 8-56	Newton Bass		3000			T 15		Dm	Tap 1.0	173.16	
33Q1	GS	11- 8-56	Realton	1932	2995	81	10	L W	46	Un	Na		C,L
33R1	GS	11- 8-56	Fish		2985			T 5		Dm	Na		

d. Tape smears.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below l.s. (feet)	Other data
			T. 5 N., R. 3 W.--Continued.										
5/3-33-1	CDE-96	1917	L. H. Clock	1913	2985.2	512	C 12	N N				155.2	
33-2	U-46	1- 7-32	Conwell					T		Dm	Hpb 0.6	151.1	Wp
34C1	GS	11- 8-56			2665		8	L W		Dm	TcE .7	148.03	
34F1	GS	11- 8-56				207.3	8	N N		Un	TcW .5	147.90	
	CDE-95	2-28-17	A. M. Byron	1912	2967.0	148	D	L W				128.5	
34N1	GS	11- 8-56	Pacific Water Co.	1951	2985					Ps			
34-1	CDE-326	1917	L. Harris			344	C	N N				187.0	
35C1	GS	11- 8-56	Pacific Water Co.	1954	2955	500	RG 12	T 40	1152	Ps		123	C,L
35G1	GS	11- 9-56	A. L. Cooley	1951	2960	410	R 10	N N	447	Un	Na	126	L
35G2	GS	11-14-56			2955		10	N N		Un	Thc .5	129.63	
35N1	GS	11- 9-56	J. Cotner	1946		200	8	L ½		Dm	TcW .2	156.92	C,W
	BR-34		Cotner's well		2984.0					Dm	Tc .2		
35N2	GS	11- 9-56	G. Mosser		2970		8	L 3/4		Dm	TcN .7	(d)	

d. Tape smears.

Table 5

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well	Diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 5 N., R. 3 W.--Continued.											
5/3-35P1	GS	11- 9-56	A. L. Carpenter	1950	2985				E		Dm	Na		
35P2	GS	11- 9-56		1946	2985				L	1	Un	Na		
36D1	GS	11- 9-56			2955		G	14	N	N	Un	Tcc 1.0	127.74	
			T. 5 N., R. 4 W.											
5/4-3C1	GS	4- 9-57	E. W. McBeth	1954	2720	249	C	8	L	1	Un	Tcc 1.0	36.42	
	F	9- 1-55										Tcc 1.0	40	C
3C2	GS	4- 9-57	R. E. Clark	1956	2720	52	CG	8	J	½	Un	Tcl 1.0	39.90	
3C3	GS	4- 9-57	E. W. McBeth	1955	2695	68.8	CG	8	N	N	Un	TcN 3.8	17.73	
	F	9- 1-55											19	C
3F1	GS	4- 9-57	L. D. Walker	1952	2695	22	D	48	C	1	Dm	Tcr -3.0	9.37	C
3F2	GS	4- 9-57	Hill		2694	40		8	J	1/3	Dm	TcS 1.0	11.78	
	F	9- 2-55											13	
3F3	GS	4- 9-57	Richard Lindsay	1954	2700	15	Dr	2	J	E	Dm	Tc 0	6.77	
	F	9- 2-55											9	C

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 5 N., R. 4 W.--Continued.										
5/4-3F4	GS	4- 9-57	J. White		2695		E			I			C
3L1	GS	4- 9-57	Judd	1955	2699					Ds			
	F	9- 2-55				35						6	C
3P1	GS	4- 4-57	H. E. Anderson		2712	32	D 48	J 5		Dm,I	Tcl	0.5 11.20	C
3-1	CDE-265	1917	S. Rogers		2708.6		C	L W				14.6	
4B1	GS	4-10-57	Southwestern Portland Cement Co.	1954	2690	350	R 16	T 20	298	In	TcN	1.6 77	L
4G1	GS	4-10-57	Southwestern Portland Cement Co.	1951	2695	160	C 16	T 20	950	In	Bnc	.5 13.63	L
4G2	GS	4-10-57	Southwestern Portland Cement Co.	1935	2690	350	C 10	T 20	600	In	Hpb	.8 e48.65?	L
4K1	GS	4-11-57	M. Weaver		2725	5.6	D	N N		Dm	Tcr	1.0 flowing	
4Q1	GS	4-10-57	McIsles	1955	2710	16	CG 10	N N		I	TcW	0 flowing	
4Q2	GS	4-10-57	McIsles	1955	2710	110	C 10	N N		Un	TcN	1.0 11.24	
4Q3	GS	11- 6-57	L. Luke		2708	48	8	J ¼		Un	TcE	.6 7.82	
	GS	4-10-57									TcE	.6 7.13	
5-1	CDE-270	1917			2780.7		D	N N					

e. Pumped recently.

Table 5

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below ls (feet)	Other data
			T. 5 N., R. 4 W.--Continued.										
8Q1	GS	3-20-57	Victorville County Water District	1953	2918	450	C 12	T 50	451	Ps	Hpb 2.0	a125.21	L
8R1	GS	3-20-57	Victorville County Water District	1955	2908	615	RG 14	T 75	641	Ps	Tap 1.0	e159.71?	
9G1	GS	4- 5-57	H. F. McDowell	1947	2840	256	C 6	N N		Un	TcN .5	95.39	
9H1	GS	4- 3-57	L. W. Brown	1947	2750	78.2	RG 6	J E		Un	TcN 1.0	29.70	
9H2	GS	3-21-57	Victorville County Water District	1916?	2720	158	15	T 30	353	Ps	Hpb 2.0	a23.35	C
9K1	GS	3-20-57	Victorville County Water District	1948	2860	303	CG 16	T 50	453	Ps	Hpb 1.5	106.69	C,L
9R1	GS	3-21-57	Victorville County Water District	1937	2757	225	CG 12	T 30	362	Ps	Na		C
9R2	GS	4- 4-57	Victorville High School	1934	2760	201	C 14	T 7½		Ps	Tap 0	16.96	L
10C1	GS	4- 4-57	Wm. Hartman	1931	2715	33	D	T 10		Dm,I	Tbc-12.0	23.25	C
10C2	CDE-263	1917	G. Smith		2714.0	59	C 14	C E				3	
10E1	GS	4- 4-57	AT and SF RR		2720	195.6	15	N N	366	Un	Tap 0	14.10	L
	CDE-325	1917	AT and SF RR	1913		200	C	C E				10.0	C
10E2	GS	4- 4-57	AT and SF RR	1922	2720	317	16	T 20	450	In	Tap .5	13.85	L

a. Pumping.
e. Pumped recently.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below ls (feet)	Other data
			T. 5 N., R. 4 W.--Continued.										
5/4-10E3	GS	4- 4-57	AT and SF RR	1938	2720	40	16 N N		300	Un	Na		L
10F1	GS CDE-264	4- 4-57 1917	E. Doulch		2715.8	39	Cd C 14 N N			Un	Na	10.5	
10F2	GS	4- 4-57	R. Dolch		2720	35.0	Cd 14 C	7½		Dm,I	TcN -9.9	15.91	
10F3	GS	4- 4-57	R. Dolch	1944	2720		C 12 T	1		Dm	Bpb .5	e16.44	
10F4	GS	4- 4-57	R. Dolch	1940	2720	21.8	CG 10 N	N		Un	TcN .5	16.22	
10L1	GS CDE-262	4- 4-57 1917	A. E. Perry F. Busch	 1917	 2719.6	25	16 J D C	3 G		Dm	Bnc .5	8.53 8.0	
10L2	GS	4- 4-57	A. E. Perry	1953	2720	85	RG 12 T	7½		I	Bnc .5	9.87	
10M1	GS U-61	4- 4-57 6-15-32	Troxell and Mann	1928	2767.6	52.8	Cd 14 J	½		Dm Dm	Tcc 2.15	e44.97 a	N, Mp
10M2	GS	4- 9-57	W. H. Julian	1939	2735	38	6 Ts	E		Un	Tcc 0	18.73	
10M3	GS	4- 9-57	A. Chantry Ice Co.	1924	2730	75	Cd 10 C	3	35	In	TcrS .2	24.01	

a. Pumping.
e. Pumped recently.

Table 8
5N/4W

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below la. (feet)	Other data
			T. 5 N., R. 4 W.--Continued.										
5/4-10N1	GS	3-21-57	Victorville County Water District	1956	2800	425	RG 14	T 30	1363	Ps	Tap 1.0	e152.98	C,L
10N2	GS	3-21-57	Victorville County Water District	1945	2800	300	CG 12	N N	144	Un	Na		
10N3	GS	4- 2-57	Anna Wiess	1941	2762	195	Cd 8	L W		Dm	TcrS .3	19.89	L
10-1	CDE-269	1917			2770.9		D	N N				48.2	
11J1	GS	4- 5-57	G. Newton		2860	208	12			Ds			L
11L1	GS	4- 5-57	A. Pratt	1955	2790	75	C 12	N N		Un	TcS 3.0	52.28	
11N1	GS	4- 5-57	G. Cooper	1942	2770	60	C 12	Ts 3/4		Dm	TccE 1.8	43.11	
11N2	GS	4- 5-57	G. Cooper	1954	2740	18	C 12	N N		Un	Tc 0	3.47	
11N3	GS	4- 5-57	G. Cooper	1942	2785	75	C 8	J 1		Dm	Tcl 1.0	58.79	
11P1	GS	4- 5-56	A. Pratt				8	L W		Dm	TcE 1.6	56.78	W
	U-59	3-22-32	Lee Saul		2788.3	65				Dm	Tc 2.6	52.7	C,Wp
11P2	F	4-30-57	Apple Valley Ranchos Water Co.								Hpb 1.0	51.48	
	GS	4- 5-57			2791.0	323	16	T 75	455	Ps,I	Hpb 1.0	a76.75	
	F	12-18-56									Hpb .4	49.78	C
	GS	4- 5-56									Hpb 1.0	49.9	
	U-59a	3-22-32									Hpb .4	27.5	Wp

a. Pumping.

e. Pumped recently.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well	Diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: Depth to water below ls (feet)	Other data
			T. 5 N., R. 4 W.--Continued.											
5/4-12F1	GS	4- 5-57	W. Peabody	1948	2860	139		10	N N		Un	TcN 0.5	98.21	
13C1	GS	3-29-57			2915	394.3	G	14	N N		Un	TcW 1.1	152.01	
13E1	GS	3-29-57	F. E. Chambers	1935	2830	306	C	16	T 7½	297	I	BncN .9	a87.0	C
13E2	GS	3-29-57	R. S. Osborn	1946	2800	63.5	A	8	T 5	100	Dm,I	Tc 1.0	48	
13E3	GS	3-29-57	Robertson		2815			6	Ts 2		Dm	TcE 1.0	64.46	
13F1	GS	3-29-57	Apple Valley Building and Development Co.		2835		G	16	T 15		I	HpbS 1.0	a110.0	
13L1	GS	3-28-57	E. L. Horton	1951	2815	176	RG	14	T 30	450	Dm,I	Hpb 3.0	62.35	L
13M1	GS	3-28-57	W. E. Hartman	1950	2800	124	Rd	12	T 25	612	I	Na	38	L
13M2	GS	3-28-57	F. Johanson	1950	2805	116	RG	12	T 15		Dm,I	Na	52	L
13N1	GS	3-28-57	K. Hartman	1954	2810	110	RG	8	T 5		I	Tap .6	a58.39	
13N2	GS	3-28-57	G. L. Walton		2810			8	J 3		Dm	Bpb .5	62.87	
13N3	GS	3-28-57	W. E. Hartman	1950	2805	127	RG	8	T 7½	180	Dm,I	Na	48	L

a. Pumping.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 5 N., R. 4 W.--Continued.										
5/4-13Q1	GS	3-28-57	W. E. Hartman	1949	2820	118	RG 12	T 15	623	I	TcW 0	a76.6	L
14P1	GS	3-27-57	Kemper Campbell Ranch			222.2	C 10	N N	50	I	TcW 0	flowing	
	CDE-37	4-12-17	Verde Ranch		2751.5	260	C 10	N N				flowing	
14P2	GS	3-27-57	Kemper Campbell Ranch			17.5	C 10	N N		Un	TcS .5	+.21	
	CDE-39	4-12-17	Verde Ranch		2750.2	92	C 10	N N				flowing	
14P3	GS	3-27-57	Kemper Campbell Ranch				C 10	N N		I	Na		
	CDE-38	4-12-17	Verde Ranch		2748.6	350	C 10	N N	297			flowing	
15C1	GS	3-29-57	Kemper Campbell Ranch			175	C 10	T 7½	400	Dm,I	TcN 0	e22.84	
	U-62	5-15-31	Verde Ranch							Dm	Ls 0	flowing	Wp
	CDE-40	4-12-17	Verde Ranch		2765.0		C 10	G				flowing	
16E1	GS	4- 2-57	L. W. Young	1948	2870	159	RG 6	J 3		Dm	Na	92	L
16M1	GS	3-20-57	Victorville County Water District		2945	402		T 50	441	Ps	Tap 1.0	e171.21	
16M2	GS	3-20-57	Victorville County Water District	1950	2940		R	T 15	200	Ps	Tap .5	156.49	

a. Pumping.
e. Pumped recently.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 5 N., R. 4 W.--Continued.										
5/4-16Q1	GS	3-21-57				16.4	14	N	N	Ds		dry	
	U-63	2-19-30									Tc 0.7	32.3	Wp
	CDE-182	2-24-17	Appleton Land, Water, and Power Co.		2848.3	861	C 14	T	G 315			29.0	L
19J1	GS	3-19-57	Victorville County Water District		2990		RG 14	T	75 147	Ps	Tap 1.0	205.57	
20B1	GS	3-20-57	Rublo Corp.	1953	2945		G	T	15 169	Ps	Hpb 0	153.15	
21A1	GS	3-21-57	J. Brocker	1955	2925	200	C 8	N	N	Un	Tcc 1.0	151.89	L
21A2	GS	3-27-57	C. Bailes	1952	2875	149.0	C 8	N	N	Un	TcS .8	100.49	
21A3	GS	3-27-57	L. F. McFadden	1947	2860	156	C 8	Ts	1	Dm	Tcc 1.3	88.93	
21A4	GS	3-27-57	T. Taylor	1947	2925		C 8	L	G	S	Tcl 2.0	163.50	
21B1	GS	3-21-57	J. Brocker	1949	2870	160	C	L	½	Dm	Na		
21B2	GS	11- 6-57	C. Stewart		2875		8	N	N	Un	TcE .6	86.81	
	GS	3-21-57									TcE .6	85.85	
21D1	GS	3-21-57	A. Plath	1954	2940	168	RG 8	L	1	Un	Na		

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 5 N., R. 4 W.--Continued.										
5/4-21E1	GS	3-21-57	C. Austin	1947	2890	126	C 8	J 1		Dm	TcS	0.9 a104.63	
21E2	GS	3-21-57	Vititow		2890			L 3/4		Un	Na		
21F1	GS	3-21-57	Warren		2935	154	8	Ts 1		Dm	Bnc	1.0 a137.51	
21G1	GS	3-22-57	R. Sells	1946	2920	165	9	L W		Dm	Tcl	1.2 135.08	L
21G2	GS	3-22-57	C. Luster		2910		8	T 2		Dm	Na		
21G3	GS	3-22-57	R. Thomas		2920		8	L E		Dm	Na		
21G4	GS	3-22-57	R. Thomas		2920					Dm	Na		
21G5	GS	3-22-57	Galloway	1941	2930	174	C 8	T 1		Un	Bnc	.4 142.57	
21H1	GS	3-22-57	M. J. Jeremiah	1948	2900	120	C 6	L 3/4		Dm	Na		
21H2	GS	3-22-57	H. Ziecer		2900		C 8	L 3/4		Dm	Na		
21H3	GS	3-22-57	House		2890		8	T 3		Dm	TcW	1.0 108.28	
21H4	GS	3-27-57	C. Williams	1947	2910	150	6	L 1		Dm	Na		
21H5	GS	3-27-57	Beaman Brothers	1952	2895	165	C 8	T 3		Un	Bnc	.7 111.29	

a. Pumping.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well	Diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below ls (feet)	Other data
			T. 5 N., R. 4 W.--Continued.											
5/4-21H6	GS	3-27-57	R. Wright	1950	2980	120	C	8	J 1½		Dm	TcS	0.58	97.43
21J1	GS	3-22-57	F. Kern		2935	225		12	T 5		Ps	Na		
21J2	GS	3-22-57	F. Kern		2935	126.1		8	N N		Ds			dry
21J3	GS	3-22-57	D. Trump		2920	140		8	L W		Dm			
21J4	GS	3-26-57	L. Ward		2920				T 3		Un	Na		
21J5	GS	3-26-57	Roesner		2925				T 2		Dm	Na		
21K1	GS	3-22-57	H. Hand		2945	180	C	6	L W		Un	TcW	.8	162.18
21K2	GS	3-22-57	J. Julias	1950	2940	168	C	10	Ts 3/4		Dm	Tcc	.6	143.72
21Q1	GS	3-22-57	E. L. Farrington		2940	196		8	Ts E		Un	TcW	1.5	144.59
21Q2	GS	3-22-57	E. L. Farrington	1949	2955	146		8	L 3/4		Dm	Na		
21R1	GS	3-22-57	S. Higgs	1932	2950	208	C	6	Ts 3/4		Dm	Tcc	.7	166.75
21R2	GS	3-22-57	T. Zanetti		2950	240.6		8	N N		Un	TcN	.4	162.82

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below l (feet)	Other data
			T. 5 N., R. 4 W.--Continued.										
5/4-24C1	GS	3-28-57				14.8	14	N N		Ds		dry	
	U-50	3-22-32	Clarke Shaw				16				Tc 0.3	52.9	Wp
	CDE-56	2-17-17	W. and C. Shaw		2815.7	72	C 14	L W				53.0	
24J1	GS	3-27-57	O. M. and M. Co.		2835	240	RG 14	T 15	470	Dm,I	Bnc 1.3	52.79	
	GS	6-14-56									Hpb 1.5	a60.49	
24J2	GS	3-29-57	O. M. and M. Co.		2865	86.0	RG 12	N N		Un	TcS .5	83.21	
	GS	6-14-56									TcS .5	85.69	
24K1	GS	6-14-56	O. M. and M. Co.		2830	100	14	T 10	270	I			
24L1	GS	3-29-57	O. M. and M. Co.		2825		14	T 7½		Dm,I	TcN .4	59.28	
		6-14-56									TcN .4	59.71	
24L2	GS	3-28-57	Wendt		2825		G 12	T 15	25	I	TcW .4	a82.9	
24R1	GS	3-27-57	O. M. and M. Co.		2840		CG 16	T 25	970	I	Hpb 1.0	a63.05	
	GS	6-13-56									Tap .5	a63.17	
24R2	GS	3-28-57	Apple Valley Grange		2840		8	Ts ½		Dm	Bnc -4.2	59.73	
	GS	6-14-56									Bnc -4.2	61.54	
24-1	CDE-57	1917	W. and G. Weldon		2801.7	300	C 12	C G				50.0	

a. Pumping.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below ls (feet)	Other data
			T. 5 N., R. 4 W.--Continued.										
5/4-25G1	GS	6-13-56	O. M. and M. Co.		2785	235	14 T	15	620	I	Tap	0	k13.55
25H1	GS	6-13-56	O. M. and M. Co.			135	14 T	E	342	Dm,I			
	U-49	5-26-22								Dm,I	Tcr	1.25	46.75 Wp
	CDE-58	1917	W. A. Foster	1907	2833.0	100	C 10 C	G	900				48.0
25Q1	GS	6-13-56	DeMott		2795	100	CG 14 T	15		Dm,I	Bpb	1.4	a14.48
25R1	GS	6-13-56	Mildred Rivers	1945	2840	400	CG 8 T	40		Dm,I	Hpb	.4	54.17
26G1	GS	2-27-57	Kalin Co., 8				10 T	15	50	I	Ls	0	flowing
	GS	6- 6-56											flowing
	Owner	6- ?-55							902				a49.1
	CDE-41	4-12-17	Verde Ranch		2782.1	552	C 10 N	N					flowing
26G2	GS	2-27-57	Kalin Co.				10 T	1½		I	TcN	2.0	flowing
	GS	6- 6-56									TcN	2.0	+1.55
	CDE-42	4-12-17	Verde Randh		2782.1		C 10 N	N					flowing
26G3	GS	2-27-57	Kalin Co.		2785		8 T	15	10	I	Tc	2.0	flowing
	GS	6- 6-56									Tc	2.0	flowing

a. Pumping.
k. Pumping, reportedly flows when not pumped.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below ls (feet)	Other data
			T. 5 N., R. 4 W.--Continued.										
5/4-26J1	GS	2-27-57	Kalin Co., 7		2792.1		10 T	15	936	I		flowing	
	GS	6- 6-56										flowing	
	U-67	5-15-31	Verde Ranch									flowing	Wp
26J2	GS	6- 6-56	Kalin Co.			17.8	10	N	N	Un	TcS 4.0	6.59	
	U-66	5-15-31	Verde Ranch				10				Tc 3.0	2.7	Wp
	CDE-43	4-12-17	Verde Ranch		2783.3	106 C	10	N	N			flowing	
26Q1	GS	2-27-57	L. A. Phillips	1939	2810	100 C	8 T	5	60	Dm	Hpb 1.0	21.36	L
26Q2	GS	2-27-57	L. A. Phillips	1938	2806	40 Cd	6 T	1		Dm	Bpb -3.0	21.33	
	U-65	1-28-31								Dm	Tcr 0	17.3	Wp
26R1	GS	6- 6-56	Kalin Co., 6		2800		10 T	15	660	I	Na		
	U-69	11-12-31									Tp 1.0	flowing	Wp
	CDE-45	4-12-17	Verde Ranch			C	10 N	N				flowing	
26-1	CDE-44	4-12-17	Verde Ranch		2798.4	C	10 N	N				flowing	
27B1	GS	2-26-57	M. Waller		2820	D	L	W		Dm	Tdp 2.5	32.28	
27B2	GS	2-26-57	M. Waller		2820	45 D	L	W		Un	Na		
27B3	GS	2-26-57	M. Tilton	1955	2820	48	8 J	1		Dm	Tcc .5	33.80	
27B4	GS	2-26-57	E. Shivers		2830		L	3/4		Dm	Na		

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 5 N., R. 4 W.--Continued.										
5/4-27B5	GS	2-26-57	E. Kerner	1944	2830		D 14	L W		Dm	Tcl 1.0	40.46	
27B6	GS	2-26-57	W. Hanson	1950	2845	100		J 1		Dm	Na		
27B7	GS	2-26-57	McGovern	1951	2860	101	6	T 1		Dm	Na		
27C1	GS	2-26-57	K. Martin		2830	80	C 12	T 1		Dm	Na		
27C2	GS	2-26-57	C. Martin		2830	30		T 1½		Dm	Tbc .3	26.96	
27C3	GS	2-26-57	C. Hunt		2860	165	9	T G		Dm	TcS .5	71.35	
27C4	GS	2-26-57	B. Wynne		2855		10	J ½		Dm	TcE 0	71.12	
	U-64	2-20-32	E. Wagner							Dm	Tbc 1.0	62.2	Wp
27C5	GS	2-26-57	B. Cood		2850		8	T 1½		Dm	TcS 1.0	62.46	
27C6	GS	2-26-57	D. Cascarella	1953	2880	96	CG 9	Ts 1	40	Dm	TcW .5	66.53	L
27C7	GS	2-27-57	J. Fenneberg	1955	2870	135	CG 8	Ts 1		Dm	TcW 0	79.93	L
27C8	GS	2-27-57	F. M. Thompson	1951	2865	90	C 8	L ½		Dm	TcW .5	74.90	
27C9	GS	2-27-57	J. Kolishnik		2870		C 8	L ½		Dm	TcN .5	81.10	
27C10	GS	2-27-57	C. Graham		2845	104	10	T 5		Dm, I	Na	40	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below ls (feet)	Other data
			T. 5 N., R. 4 W.--Continued										
5/4-27D1	GS	2-26-57	M. Dillard		2900			E		Dm	Na		
27D2	GS	2-26-57	W. Massey		2870	82	Cd 8	L	W	Dm	Tcc	1.0	74.46
27D3	GS	2-26-57	R. Chipchick	1942	2855	90	C 8	L	2	Dm	Tcc	1.0	68.95
27D4	GS	2-27-57	R. D. Jenson		2855	175	8	J	1	Dm	TcE	3.0	76.49
27E1	GS	2-25-57	J. E. Hester		2890		G 8	J	1	Dm	TcN	.3	99.10
27E2	GS	2-25-57	G. Wondra	1955	2890		C		E	Un	Na		
27E3	GS	2-26-57	Palmer		2895		C 8	Ts	¼	Dm	TcN	1.0	91.82
27E4	GS	2-26-57	A. Baker	1953	2890		C 10	T	2	Dm	TcS	.4	82
27F1	GS	2-26-57	E. Shivers	1954	2890	150	6	Ts	5	Dm,I	Tcc	2.5	94.52
27F2	GS	2-26-57	W. Engel	1947	2875	132	C 6	J	1	Dm	BpbW	.3	a88.44 L
27G1	GS	2-26-57	H. Peters	1952	2855	96	R 6	J	1	Dm	Na		
27G2	GS	2-26-57	Alpin		2855	90.8	8	L	G	Dm	TcE	.57	56.92

a. Pumping.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well	Diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below ls (feet)	Other data
			T. 5 N., R. 4 W.--Continued.											
5/4-27P1	GS	2-25-57	V. Gradwahl		2942				T	20	Dm,I	Na		
28C1	GS	2-28-57	A. E. Perry		2970			10	Ts	E	Dm	TcN	1.0	163.00
28C2	GS	3- 1-57	Victor Valley Estates		2958				T	10	I	Tap	1.0	156.11
28C3	GS	3- 1-57	F. Snyder		2950			8	T	3	Dm,S	TcW	.7	157.59
28D1	GS	3- 1-57		1957	2960		C	8	Ts	1	Dm	Tcc	1.0	156.53
29M1	GS	3- 1-57	F. Deeds	1951	3025	240	C	8	Ts	1½	Dm	BncW	.5	d221
30E1	GS	3- 6-57	Greening		3060	570	G	14	T	150	I	Tap	1.0	246.74
30J1	GS	3- 1-57	J. Myers		3010			8	J	4	Dm	Tcc	.8	221.5
30K1	GS	3- 6-57	Greening		3055			14	T	75	I	Na		
30M1	GS	3- 6-57	Greening		3075	505		14	T	150	I	Tap	1.5	261.07
30M2	GS	3- 6-57	Greening		3080		G	14	T	E	I	Na		
31B1	GS	11- 5-57 3- 5-57	N. T. Mitchell	1947	3075	300		10	L	2	Dm	Tcc Tcc	1.0 1.0	268.47 264.75

d. Tape smears.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 5 N., R. 4 W.--Continued.										
5/4-33E1	GS	3- 1-57	Harold Welch	1951	3025	300	RG 6	T G	60	Dm	Na		L
33H1	GS	3- 1-57		1925	3005		8	N N		Un	Na		
35A1	GS	4- 5-56	Kalin Co.				10	T 3	918	Dm	Tap 2.0	7.32	L
	U-68	5-15-31	Verde Ranch				10				Tap 2.0	flowing	Wp
	CDE-47	4-12-17	Verde Ranch		2799.1	895	C 10	N N				flowing	
35A2	GS	6- 6-56	Kalin Co., 4				12	T 15		I	TcE 0	a33.86	C
	CDE-48	4-12-17	Verde Ranch		2800.2		C 10	N N				flowing	
35A3	GS	6- 6-56	Kalin Co., 5				12	T 15	823	I	Na		C
	CDE-46	4-12-17	Verde Ranch		2800.4		C 10	N N				flowing	
35H1	GS	6- 6-56	Fish Hatchery	1912		200	12	T 20		In	Na		
	CDE-49	4-12-17	Verde Ranch		2811.0	270	C 12	C G	3150			4.0	
35H2	GS	6- 6-56	Fish Hatchery	1912		200	12	T E		In	Na		
	U-71	4- 3-30								I	Tbc .5	9.1	Wp
	CDE-50	4-12-17	Verde Ranch		2811.0	270	C 12	C G	3150			4.0	
35H3	GS	3-14-57	Fish Hatchery, 5	1956	2815	405	RG 20	T 75	2800	In	Bnc 1.0	a56.09	

a. Pumping.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 5 N., R. 4 W.--Continued.										
5/4-35J1	GS	6- 6-56	Fish Hatchery	1952	2815	405	RG 16	T 75	3000	In	Na		C,L
35J2	GS	6- 6-56	Fish Hatchery	1952	2815	412	16	T 75		In	Na		L
35L1	GS	2-28-57	W. H. Sweet	1954	2900	185	RG 8	Ts 1		Dm	Tcc 0	90.76	
35L2	GS	2-28-57	L. O'Neill	1950	2885	152	C 8	T 2		Dm	Na		L
35M1	GS	2-28-57	J. B. Andrews	1950	2910	200	8	E		Dm	Na		L
35N1	GS	2-28-57			2940		8	J 2		Dm	TcW 0	125.50	
	U-74	3-24-33	Paul Schroeder									112.3	Wp
35R1	GS	6- 6-56	Kalin Co.		2885	557	14	T 7½		I	TcW 1.5	a89.94	L
35-1	CDE-51	4-12-17	Verde Ranch		2811.0	270	C 12	C G	3150			4.0	
35-2	U-70	1-28-31									Tdp 2.0	+7.8	Wp
36E1	GS	6- 6-56	Kalin Co.		2810		14	T 20		I	TcS 0	14.75	
	Owner	6- ?-56							1190			a41.0	
36G1	GS	5-23-56	Kalin Co.	1952	2810	286		T 40	1890	I	Tap 1.0	13.50	L

a. Pumping.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 5 N., R. 4 W.--Continued.										
5/4--36H1	GS	2- 1-57	R. E. Dexter			100	T	15	620	Dm,I	Bpb 1.0	14.78	
	GS	5-13-56									Bpb 1.0	a20.5	
	CDE-36	2-17-17	Orr and Pullar	1909	2825.2	110	C 12	C	G 675			7.0	
36N1	GS	4- 5-56	Kalin Co., 1		2827		14	T	20 1240	I	Bnc 1.0	19.75	W
	U-72	5-17-34								I	Tcr .2	6.7	Wp
	CDE-52	4-12-17	Verde Ranch			306	C 12	C	G			4.0	
36N2	GS	5-23-56	Kalin Co.	1955	2825	265	RG 18	T	30 2000	I	Bnc 0	20.61	L
36N3	GS	5-23-56	Kalin Co.		2825	19.5	30	C	G	Un	TcS 0	10.15	
36N4	GS	6- 6-56	Kalin Co., 2				14	T	25 1162	I	Bnc 0	23.55	
	CDE-55	3- 5-17	Verde Ranch		2824.0	270	C 12	C	G			12.8	
36P1	GS	5-23-56	Kalin Co., 10					T	20 1016	I	Bpb 1.0	a23.63	C
	CDE-53	3- 5-17	Verde Ranch		2824.0	270	C 12	C	G			12.8	
36P2	GS	5-23-56	Kalin Co.		2820		14	T	15 958	I	Bnc 0	a27.70	
36P3	GS	5-23-56	Kalin Co.		2820		10	N	N	Ds			
	U-41	5-13-32									Tc 1.4	12.9	Wp
36Q1	GS	5-23-56	Kalin Co.		2825			T	3	Dm	Na		
36-1	CDE-54	3- 5-17	Verde Ranch		2824.0	270	C 12	C	G 3600			12.8	

a. Pumping.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 5 N., R. 5 W.										
5/5-1-1	CDE-324	1917					D	N	N			119.0	
2H1	GS	4- 3-57				76.9	D	N	N	Ds		dry	
	CDE-190	3- 8-17	C. H. Smith	1913	2902.2		D	N	N			120.9	
2-1	CDE-189	1917	C. H. Smith	1909	2949.6	156	D	L	W			153.0	
3N1	GS	1-25-57	J. H. Dosting		2975	305	12	L	G	Dm,S		(a)	
4C1	GS	4- 9-57	McCurdy		2940	150.3	C 6	N	N	Un	TcS 7.5	126.40	N
F-6/5-33L1		5- 4-48									TcS 7.5	120.5	
5A1	GS	1-25-57	B. Scoggins		2950		C 8	L	G	Dm	Tap .8	128.20	
	F-4D1	12-17-56									Tap .8	128.30	
5B1	GS	1-25-57	Chritophersen		2950	195.9	CG 8	N	N	Dm	TcE .5	123.92	
5C1	GS	1-25-57	R. D. Clark	1956	2945	251	C 10	L	G	Dm	Na	136	L
5C2	GS	1-25-57	O. D. Carr		2955	250	CG 8	L	G	Dm	TcN .3	126.22	
5L1	GS	1-25-57			2975		C 8	L	W	Dm		(a)	
6P1	GS	1-23-57			3010	146.2	C 12	N	N	Ds		dry	
	CDE-193	3- 8-17	J. P. Caldwell	1912		650	C 10	L	G	225		174.6	

a. Pumping.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well	Diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: Depth to water below lsd (feet)	Other data
			T. 5 N., R. 5 W.--Continued.											
5/5-3A1	GS	1-25-57	L. E. Carder	1955	3000	300	C	8	L G		Dm	Tap 0.2	179.93	C,L
8L1	GS	2-19-57	W. W. Herron	1957	3035	h293	RG	8	N N					
8R1	GS	1-23-57	Lee Purcell			300		14	L W		Dm,S	Bnc 1.0	235.41	
	CDE-191	3- 8-17	E. L. DeBolt	1912	3050.0	285	C	12	L G				238.6	
9D1	GS	1-25-57	J. A. Young	1953	3005	300	C		L E		Dm	Na		
12R1	GS	4- 2-57				10			N N		Ds		dry	
	CDE-186	3- 8-17	P. S. Carl	1909	2938.3		D		N N				143.1	
12-1	CDE-187	1917	A. M. Corder			80	C	8	N N				70.0	
13D1	GS	4- 2-57				107.0			N N		Ds		dry	
	CDE-188	1917	AT and SF RR		2967.1	300	C	8	N N				70.0	
15N1	GS	1-25-57	W. MacGregor	1951	3090			10	L W		Dm			L
15-1	CDE-180	4- 6-17	C. R. Smyth	1902	3090.3	323	C	8	L W				292.5	
18-1	CDE-179	4- 6-17	W. W. Yeager	1915	3142.8	305	D		N N				298.6	
19-1	CDE-321	1917	P. Weile			365	C		N N				313.0	

h. Drilling.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 5 N., R. 5 W.--Continued.											
5/5-20-1	CDE-181	3- 8-17	S. V. Benson		3165.3	365	C 7	N	N				323.0	
21J1	GS	1-23-57	A. Minghelli	1952	3140	500	R 10	L	3	Dm	TcW	0.2	348.10	
21L1	GS	1-23-57	I. S. Clark		3145	325	C 6	L	½	Dm	Na		317	C,L
22E1	GS	2-19-57	J. Harris				C 8	L	W	Dm	TccW	.4	313.25	C,W
	F-22N1	11- 5-53											298.55	
	CDE-185	1918?	H. T. Woods	1908	3121.0	340	C 8	L	G	108			297.5	
22K1	GS	1-25-57	California Electric Power Co.	1938	3105	437	C 8	T	5	15	Ps	Na	324	L
22M1	GS	1-25-57	C. W. Buist			330.9	C 8	N	N		Un	TcW	1.7	307.09
	CDE-184	1917	W. G. Dobie	1903	3125.9	325	C 5	L	G				300.0	
22M2	GS	1-28-57	C. W. Buist		3135	325	R 10	L	5	Dm	Na			
22-1	CDE-183	1917	W. G. Dobie	1912	3125.9	340	C 10	L	N				305.0	
24R1	GS	3-19-57	Victorville County Water District	1955	3055	569	RG 14	T	75	739	Ps	Tap	.5	e244.96
24-1	CDE-323	1917					C	N	N				240.0	
27Q1	GS	2-19-57				144.6		N	N	Ds			dry	
	CDE-322	1917	S. I. Pickert			578	C	N	N				570.0	

e. Pumped recently.

USGS well number	Source of data and owner numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 5 N., R 6 W.										
5/6- 2C1	GS	1-17-57			3005		8 L	W		S	TccE 1.0	104.20	
2C2	GS	1-17-57			3005	162.7	6 N	N		Ds		dry	
2-1	CDE-318	1917	G. Penaul				D	N	N			236.0	
6N1	GS	12- 6-56				224.7	12 N	N		Ds		dry	
	CDE-214	2-19-18	W. Sly	1911	3149.3		C 12 N	N				251.0	
12E1	GS	1-17-57			3055		C 8 L	W		Dm	Tap 1.0	157.00	
12F1	GS	1-17-57	Friesen		3055		C 8 L	W		Dm	TccN .5	d158	
12F2	GS	1-17-57				118.4	D 48 N	N		Ds		dry	
	CDE-192	4- 6-17	L. W. DeBolt	1913	3065.0		D	L	W			211.0	
12N1	GS	11- 6-57			3100		R g16 N	N		Un	Tcc 1.4	181.02	
	GS	1-17-57									Tcc 1.4	179.92	
	CDE-319	1917	T. A. DeBolt				D	N	N			150.0	
12-1	CDE-320	1917	D. S. Ball			423	C	N	N			300.0	
13H1	GS	1-18-57			3120		R 12 T	E		Un	Hpb .6	214.72	

d. Tape smears.
g. This well probably has been redrilled. Correlation with CDE number uncertain.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below l.s. (feet)	Other data
			T. 5 N., R. 6 W.--Continued.										
5/6-22G1	GS	1-18-57	C. Westhaver	1935?	3255	400	R 8	L W		Dm,S	Na	350	C
22J1	GS	1-17-57	T. Lee			400	C 8	T G		Dm,S	Na	365	C
	CDE-175	1917	F. C. Lang	1914	3254.5	536	C 12	L G	297			330.0	
22R1	GS	1-17-57		1923	3285		R 8	N N		Ds		(j)	L
22-1	CDE-176	4- 6-17	Julia Lang		3250.1	475	C 12	N N				328.5	
29Q1	GS	1-10-57			3445	542.9	12	N N		Ds		dry	
35G1	GS	2-19-57	L. Riggins			550	C 12	L W		S			W
	CDE-173	4- 6-17	F. W. Lang		3405.9	598	C 12	N N				505.3	
			T. 5 N., R. 7 W.										
5/7- 2Q1	GS	12- 5-56				62.6	6			Ds		dry	
	CDE-212	1917	G. S. Pownald	1913	3157.8	380	C 6	L W				235.0	
4-1	CDE-211	4- 7-17	T. O. Ford		3157.4	300	C 12	L G				238.3	
5P1	GS	12- 5-56					6	N N		Un	Na		
	CDE-209	1917	A. M. Steele		3155.1	390	C 6	L G				232.0	

1. Reported dry.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 5 N., R. 7 W.--Continued.										
5/7- 6E1	GS	11-29-56					C 10	T 10		Dm,S	ThcN 1.2	204.27	
	CDE-296	2-17-18	L. B. Coleman		3109.0		C 10	N N				199.0	
9H1	GS	11- 6-57	Johnson				8	L W		S	TcN .4	283.29	
	GS	12- 5-56									TcN .4	282.89	
	CDE-210	1917	O. W. Jessup		3211.1	350	C 8	L G				280.0	C
12P1	GS	12- 6-56			3230	301.6		12 N N		Ds		dry	
	CDE-213	1917	DeMeville-Rowley			415	C 12	N N				315.0	
24D1	GS	12- 6-56	G. Moritz		3337	h22	D	N N					
			T. 6 N., R. 2 W.										
6/2- 5C1	GS	1-11-57			3540	280.0	C N	N N		Ds		dry	
28-1	CDE-332	1917	A. J. Allen				D	N N				123.0	
33F1	GS	4-26-57			3200		12	N N		Un	TcS 1.0	124.19	
33-1	CDE-333	1917	Jackson				D	N N				160.0	
34M1	GS	1-17-57	Oldenberg		3240	344.0	12	N N		Un	Tcc .2	177.19	
	F-[illegible]X1	11-16-54									Tc 0	212.65	

h. Drilling.

Table 1
5N/7W
6/2W

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 6 N., R. 3 W.											
6/3-3Q1	GS	2-19-57			3270	72.0	C	N	N	Ds			dry	
3R1	GS	2-19-57	Rufus Weems		3295	276.7	C 12	N	N	Un	Tc	1.4	222.48	
4E1	GS	2-19-57			3160	105.3	D	N	N	Un	Tcr	0	104.83	
4G1	GS	2-19-57			3190	192.7	C 10½	N	N	Un	TcS	0	124.74	
4N1	GS	2-20-57	H. Young	1949	3130	100.5	C 12	N	N	Un	TcE	.2	66.49	
4N2	GS	2-20-57	Banks		3120		D	L	3/4	Dm	Tbc	1.6	65.81	C
4-1	DGT-336	1917	E. L. Adams			75	D						64.0	
5G1	GS	2-20-57	John Moore		3130	82.0	D	N	N	Un	Tcr	0	78.38	
5P1	GS	2-20-57			3115	67.5	D	N	N	Un	Tbc	-1.0	65.98	
5R1	GS	2-21-57			3110		C	T	N	Un	Tdp	1.5	64.82	
8A1	GS CDE-337	2-20-57 1917			3100	87.2	C 12 C	N	N	Un	Tc	1.8	57.55 42.0	
8A2	GS	2-21-57	Henrietta Jefferson		3090	48.6	12	B	H	Dm	Tc	.3	38.54	
8A3	GS	2-21-57	Bell Mountain Development Co.		3090		8	Ts	3/4	Dm	Na			

Table 1

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well	Diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: Depth to water below lsd (feet)	Other data
T. 6 N., R. 3 W.--Continued.														
6/3- 8G1	GS	2-21-57			3090	57.5	D		N	N	Dm	Tbc	2.0	51.17
8G2	GS	2-21-57			3080					E	Dm	Na		
8H1	GS	2-21-57	C. A. Foster		3085	87			J	½	Dm	Ppb	.5	39.8
8H2	GS	2-21-57	J. J. Sapp		3090	105			J	3/4	Dm	Na		
8H3	GS	2-21-57	Joshua Gatson		3090	70			T	1	Dm	Bpb	.5	41.09
8J1	GS	2-21-57			3070	58.1	D		N	N	Un	Tbc	1.0	40.32
8N1	GS	2-21-57	Florence Harvey		3080	110			J?	1	Dm	TcS	1.0	63.50
9D1	GS	2-20-57	Sarah Guess		3115	70		6	L	W	Dm	TcS	1.4	41.65 W
9D2	GS	2-21-57	H. E. Woods	1948	3090	70	C	8	L	W	Un	TcN	3.85	38.91 W
9E1	GS	2-21-57	S. C. Guess	1955	3095	60	CG	8	J	1	5 Dm	TcW	1.0	38.07 L
9E2	GS F-9P1	2-21-57	S. C. Guess	1945	3095	49.6	C	8	L	W	Un	TcW	1.3	40.86 W
9E3	GS DGT-339	2-26-57 2-19-18			3095	46	D D		N	N	Un	Ls	0	41.82 41.0

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 6 N., R. 3 W.--Continued.										
6/3- 9E4	GS F-9E1 BR-28 DGT-338	2-27-57 2-19-18	C. D. Bazile J. P. Whitby Sidewinder well Sidewinder well	1897	3085	31.0 33	D 48 D 48	J L	½ N	Dm	Tcr Tcr	0.5 .67	30.36 29.7	 W C
9F1	GS	2-27-57	R. C. Jones	1952	3120	134	RG 6	T	1	Dm	Na			
9F2	GS	2-27-57	R. C. Jones	1948	3120	94	RG 6	J	E	Dm	BpbN	.5	67.88	
9F3	GS	2-27-57	T. H. Waite		3115		10	L	W	Dm	TcE	.5	58.82	
9G1	GS	2-27-57			3155	105.7	C 14	L	H	Un	Tcr	.5	dry	
9M1	GS	2-27-57	D. W. Phelps	1944	3080	72	8	J	E	Dm			26	
9M2	GS	2-27-57	Lesli Gray		3070	50	CG 8	T	½	Un	TcW	.8	30.27	
9M3	GS	2-27-57	Emma Lilly	1940	3070		10	L	W	Dm	Tcl	2.5	29.56	
9N1	GS	2-27-57	Southwest Portland Cement Co.		3065	80.5	10	N	N	Un	Tcc	1.0	52.49	
9P1	GS	2-27-57	Guy		3085		CG 6	L?	E	Un	Na			
11D1	GS	2-27-57	Rufus Weems		3280			L	H	Un	Na			

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 6 N., R. 3 W.--Continued.										
6/3-14E1	GS	2-28-57			3185	60.7	D	N	N	Un	Tcr	0.5	56.69	
14H1	GS	2-28-57			3230	92.5	D	N	N	Un	Tbc	1.0	86.78	
14N1	GS	2-28-57			3170	68.0	D	B	H	Un	Tcr	2.0	64.09	
15B1	GS	2-28-57	C. C. Cook	1930	3165	80.1	D	N	N	Un	Tcr	.5	76.88	
15J1	GS	2-28-57	C. J. Evans		3165		C	L	W	Un	Na			
16C1	GS	3- 1-57	John Dickson	1951	3080	63.0	8	N	N	Un	Tc	.6	39.03	L
16D1	GS	2-28-57	Community Center		3055		8	L	1	Dm	TcW	1.0	87.13	
16D2	GS	2-28-57			3065	50.2	C 24	N	N	Un	Na			
17A1	GS	3- 1-57	Bowen		3045	130.8	C 10	J	1	Un	TcW	1.0	73.81	
17A2	GS	3- 1-57			3045		D	N	N	Un	Tcr	0	58.66	
17B1	GS	3- 1-57	Melba Armstrong		3050	87.1	D	L	W	Dm	Tbc	1.5	71.11	W
	DGT-340	12-30-17	G. Marietta			87	D		35				73	
17B2	GS	3- 1-57	W. W. Johnson	1950	3040	70	C 8	L	W	Dm	Tcc	1.0	63.42	
17B3	GS	3- 1-57	Mildred Cato		3040			L	W	Dm				

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 6 N., R. 3 W.--Continued.										
6/3-17B4	GS	3- 1-57	Waller	1946	3040	80	C 12	L W		Dm	Tcc	1.3	71.65	
17B5	GS	5-21-57	W. Steward	1948	3050	140	C 12	J 1		S	TcW	1.0	66.56	
17B6	GS	5-21-57	W. Steward		3040	74.0	D	N N		Un	Tcr	0	55.81	
17C1	GS	5- 7-57	W. Steward	1951	3040		14	L W	1240	Dm	Tcc	1.3	54.84	L
17D1	GS	5- 7-57	Veola Jenkins		3030	96	6	J 1		Dm	Na			
17E1	GS	5- 8-57	Lee Johnson	1951	3020	160	C 8	L W		Dm	Tbc	.5	a84.90	
17F1	GS	3- 1-57	David Medlock	1950	3030	198	C 8	L G		Dm,S	Na			
17F2	GS	3- 1-57	Jones		3035	90		L W		Dm	Na			
17F3	GS	3- 1-57	Moore	1947	3035	78	10	L E		Un	Na			
17H1	GS	3- 1-57	M. Horn		3035			L $\frac{1}{4}$		Dm	Tcr	.2	73.11	
17H2	GS	3- 1-57	M. Horn		3035	h33.4	C 10	N N						
17K1	GS	3- 1-57	Pinchem	1954	3015	96.5	R 7	N N		Un	TcE	1.5	53.43	
21P1	GS	5- 8-57			3000	158.2	8	N N		Un	TcW	2.2	153.60	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well	Diameter (in.)	Pump data: Type	Pump data: power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 6 N., R. 3 W.--Continued.													
23R1	GS	5- 8-57			3020	189.8		8	N	N		Un	TcS	0	174.63	
23D1	GS	5-14-57	W. A. Hudson	1953	3150	165	C	8	L	½		Dm	Tbc	1.0	125.1	C
23E1	GS	5-14-57	P. Rabb		3170	88.0	D		L	½		Dm	Tbc	1.0	84.69	
23J1	GS	5-14-57			3230	61.2	D		N	N		Un	Tcr	1.5	58.15	
26F1	GS	5-14-57	Wade Bentley		3170	393.0		6	N	N		Un	TcN	2.0	321.34	
26N1	GS	5-14-57	George Winfrey	1955	3070	396	CG	8	Ts	5		Dm	TcS	-6.0	243.91	
27M1	GS	5-15-57	E. E. Betzer	1953	2980	169	RG	8	J	2½		Dm	TcE	.5	156.71	
27N1	GS	5-15-57			2980	148.5		6	N	N		Un	TcN	.5	147.90	
28D1	GS	5- 8-57	Parks		3000	106.6		12	N	N		Ds	Tc	.5	dry	
28J1	GS	5-15-57	Irene McCarthy	1951	2980	340	C	14	T	40		Dm,I	Hpb	1.0	170.67	
28J2	GS	5-15-57	Kathleen Kelly	1956	2990	200	C	8	Ts	2		Dm	Bnc	1.0	165.35	
28Q1	GS	5-15-57	Irene McCarthy		2970			12	T	D		I	Hpb	.5	137.61	
	CDE-147	3- 4-17	Byron Buneman	1915		190	C	12	S	G					120.6	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 6 N., R. 3 W.--Continued.										
6/3-28R1	GS	5-15-57	Irene McCarthy			172	12	T 20		Dm,I	Hpb 0.8	142.04	W
	BR-30	11- 7-50	McCarthy		2968.0					Dm	Hpb .8	127.25	
	CDE-146	1917	Byron Buneman	1915		193	C 12	L G 27			.	117.0	
32R1	GS	5-16-57	Louis Bellson	1928	2930	196.7	R 10	T 5		Dm,I	Hpb 1.0	115.65	C
33J1	GS	5-16-57	J. P. Claybaugh		2940		8	Ts 1½		Dm	TcS 1.0	125.51	
33N1	GS	5-16-57	W. J. Johnston	1954	2930	135	CG 8	Ts 1	30	Dm	TcN 1.0	96.89	L
33N2	GS	5-16-57	R. E. Clark	1954	2930	140	C 9	J 1		Dm	Na	94	L
33N3	GS	5-16-57	Fred Snyder		2930	126	8	Ts 1		Dm	Na		
33P1	GS	5-16-57	George McCarthy		2920	98	R N	N N		Ds		(j)	
33Q1	GS	5-16-57	Miller		2930		8	Ts 1		Dm	TcE 1.0	106.60	
33Q2	GS	5-16-57	A. L. Domike	1952	2920	120	C 8	Ts 1½		Dm	Na		
33R1	GS	5-16-57	H. S. Hanreddy		2920		8	Ts E		Dm	TcW .7	95.53	
33R2	GS	5-16-57	Emily Flohr		2930		8	Ts 1		Dm	TcW .5	98.47	

j. Reported dry.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 6 N., R. 3 W.--Continued.										
c/3-34A1	GS	5-17-57	Hampden, Wentworth, et al.		3020		G 12	T 75		I	Na		C
34C1	GS	5-17-57	H. W. Stewart	1955	2950		G	T 50		I	Hpb 1.0	(a)	
34F1	GS	5-17-57	H. W. Stewart		2960			T 50		I	Hpb .5	138.53	
34G1	GS	5-17-57	C. E. Moore	1920	2950	190	Cd 8	Ts 3/4		Dm	TcS -.5	128.20	
34J1	GS	5-17-57	Pacific Water Co.	1952	2950		G 12	T 15	430	Ps	Tap .5	a136.39	
34L1	GS	5-17-57			2950	95.5	D	N N		Ds		dry	
	CDE-145	3- 4-17	E. H. Corwin	1910		110	D	L W				101.2	
34L2	GS	5-17-57	R. D. Bishop	1941	2940	140	C 8	Ts 1/3		Dm	TcN 1.0	111.80	
34M1	GS	5-17-57	C. R. Read	1955	2940		8	Ts 1½		Dm	Na		L
34M2	GS	5-17-57	C. R. Read	1948	2940		6	N N		Un	Na		L
34N1	GS	5-17-57			2920			T 1		Dm	Na		
34N2	GS	5-17-57			2920		6	L W		Dm	Na		
34N3	GS	5-17-57	L. R. Conard		2920			T 1½		Dm	Na		

a. Pumping.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)		Type well and diameter (in.)	Pump data: Type and power		Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: Depth to water below lsd (feet)		Other data
			T. 6 N., R. 3 W.--Continued.													
6/3-34R1	GS	5-17-57	Cedarquest		2950			8	L	W		Dm	Tcc	1.0	141.78	L
35C1	GS	5-21-57	P. Linden		3090			8		E		Dm	Na			L
35L1	GS	5-21-57	C. E. Waas		3010			6	N	N		Un	Tcc	.5	180	
35N1	GS	5-17-57	D. E. Waas	1937	3000	150			L	W		Un	Na			
35N2	GS	5-17-57	E. R. Waas	1946	2980			8	N	N		Un	TcN	1.0	148.30	
35P1	GS	5-17-57	Paul Waas	1946	3000			6	L	3/4		Dm				
35P2	GS	5-21-57	Jean Smith		3000			6	N	N		Un				
			T. 6 N., R. 6 W.													
6/6- 6Q1	GS	11-14-56	L. Bryant		2840	63	C	8	L	W		Dm,S			57	
6Q2	GS	11-14-56	R. Bryant	1955	2850	231.5	R	10	N	N	54	Un	TcS	1.5	70.27	L
6Q3	GS	11-13-56	Bryant		2840	80	C		L	W		Dm	Tbc	1.3	58.52	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well	Diam. (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 6 N., R. 6 W.--Continued.											
6/6- 7B1	GS	11-27-56	Southern Pacific Co.				D		N	N	Ds		dry	
	CDE-255	2-14-18	Southern Pacific Co. 1890		2938.2	24	D		N	N			23.0	
12P1	GS	1-16-57			2780		C		L	W	Dm	TcE 0.9	102	
12Q1	GS	1-16-57			2770		C	8	L	W	Dm	TcE .9	149.25	
13A1	GS	1-16-57			2775		C		L	W	Dm	Na		
13B1	GS	1-16-57			2775		C	6	L	W	Dm	Na		
13R1	GS	1-16-57	T. Songer		2820			10	L	G	Dm	TcE 1.4	56.85	
14N1	GS	1-16-57			2835	51.6	D	60	L	W	Un	Tcr 3.0	45.62	
	CDE-315	1917	R. R. Jamison			50	D		N	N			43.0	
14P1	GS	1-16-57	M. Rothenburg				D	48	J	1	Dm,S	TcE .3	44.42	W
	CDE-292	2-20-18	B. S. Hook		2833.0		D		C	G			42.5	
14P2	GS	1-16-57	M. Rothenburg		2830	62.6	D	60	L	W	Dm,S	TcN 0	42.96	
14P3	GS	1-16-57			2835	238.2	C	14	N		Un	TcW .2	46.12	
14R1	GS	2-19-57			2820	48.6	D	36	N	N	Un	TcrW .2	41.28	W
	CDE-316	1917				54	D		L	W			40.0	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 6 N., R. 6 W.--Continued.										
6/6-18N1	GS	2-27-56	C. Strickanen		2895	120	8	J	½	Dm	TcS 0.2	49.60	
	BR-7		Johnson										
	CDE-314	1917	R. R. Jamison			58	D	N	N			56.0	
18P1	GS	11-27-56	G. R. Russell		2895		6	T	1	Dm	Na		
18P2	GS	11-27-56			2895		G 8	T	E	Dm	Hpb .8	45.30	
18Q1	GS	11-27-56			2895	57.5	36	N	N	Un	Tcr 1.0	48.42	
	CDE-229	1917	W. B. Phillips	1911		76	C 12	N	N			45.0	
18Q2	GS	11-26-56			2895	72.6	D 18	N	N	Un	Tc .5	50.08	W
	F-18P1												
18Q3	GS	11-26-56			2890			L	W	Dm,S	Na		C
18Q4	GS	11-27-56			2890		8	L	3/4	Dm,S	Tcc 1.0	48.43	
18-1	CDE-230	4- 7-17	F. P. Williams				C 12	N	N			48.9	
18-2	CDE-231	1917	F. P. Williams			205	C 12	L	G			32.0	
19C1	GS	11- 8-56	W. D. Belknab		2895		8	T	½	Dm	Hpb 1.3	51.92	
19C2	GS	11- 7-56			2900		CG 6	J	1	Dm	Tcc 1.3	53.05	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well	Type well diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: Depth to water below lsd (feet)	Other data
			T. 6 N., R. 6 W.--Continued.											
C/6-20-1	CDE-312	1917	W. L. Norris				C	12	N	N			130.0	
21A1	GS	11-13-56			2860			8	L	W	Dm,S		(a)	W
21J1	GS	11-13-56			2890		C	8	L	W	Dm		(a)	
21K1	GS	11-13-56			2885		C	6?	L	W	Dm	TcE 0.6	75.68	
21K2	GS	11-13-56			2885	(h)	C	8	N	N				
22G1	GS	1-16-57	W. F. Karst	1956	2860	85	C	8	L	G	Dm	BncS .4	66.70	
22H1	GS	1-16-57			2860	128.9		6	L	W	Un	TcN .2	63.05	
22M1	GS	11- 8-56			2885		CG	6	T	G	Dm	Bnc .5	82.90	
24B1	GS	1-16-57			2820	52.3	D	36	N	N	Un		51	
24H1	GS F-24A1	4- 3-56	Powell	1932	2830	85		10	L	W	Dm	Tc 1.0	70.23	W
24J1	GS	1-16-57	J. Schmidt	1952	2835	91.5	C	10	Ts	E	Dm	TcE .5	69.55	

a. Pumping.
h. Drilling.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 6 N., R. 6 W.--Continued.										
6/6-25A1	GS	1-16-57	Jack Payne	1956	2855	134	R 8	J	1½	Dm		75	
26Q1	GS	1-16-57			2930	149.6	8	N	W	Dm	Tap	1.2	113.06
27-1	CDE-313	1917					C 12	N	N				128.0
28F1	GS	11- 7-56	J. H. Webster			115	C 12	L	W	Dm	TcS	.6	98.36 W
	F-28E1	11-14-47											98.4
	CDE-227	1917	J. W. Walker		2948.3	136	C 12	L	G				102.0
28H1	GS	3- 8-58					12	N	N	Un	TcW	.3	102.87 W
	CDE-228	2-20-18	L. M. Cotton	1915	2948.9	150	C 12	L	G				105.0
30K1	GS	11- 7-56			3005	133.8	C 12	N	N	Ds			dry
	CDE-225	3- 7-17	C. H. Sampson	1911		136	C 12	N	N				133.2
30K2	GS	11- 7-56			3005	17.8	C 12	N	N	Ds			dry
	CDE-224	3- 7-17	C. H. Sampson	1915		250	C 12	N	N				133.2
31Q1	GS	11- 7-56			3055	220	C 8	L	W	Dm	TcE	1.4	180.82
32K1	GS	11- 7-56	F. Reinke			226	C 12	L	W	S	Bnc	.9	156.82
	F-32P1												W
	CDE-276	2-20-18	F. Reinke	1910	3047.8	380	C 12	N	N				131.0

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well	Type well diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 6 N., R. 7 W.											
6/7-1C1	GS	8-16-56			2850	107		18	N	N		Na		
2M1	GS	8-21-56				12.0	D	60	N	N	Ds		dry	
	CDE-298	2-21-18			2835.7		D		N	N			17.0	
2N1	GS	12- 4-56							N	N	Ds		dry	
	CDE-247	2-21-18	Grace E. Davis	1916	2841.1	226	C	14	C	G 405			20.5	
3P1	GS	8-21-56			2850	7.0		14	N	N	Ds		dry	
	CDE-249	3- 7-17	W. M. Gray			367	C	12	N	N			23.1	
3-1	CDE-248	1917	W. M. Gray	1912		392	C	12	N	N			16.0	L
3-2	CDE-299	2-21-18	El Mirage School		2842.8		D		N	N			22.0	
4Q1	GS	8-21-56			2850	7.0	D	36	N	N	Ds		dry	
	CDE-250	1917	T. R. Croswell	1912		183	C	12	L	G 135			27.0	
5B1	GS	8-22-56			2845				L	N	Dm	Na		C
	CDE-254	1917	W. H. Anderson	1916		58	C	8	C	G 135			22.0	
5M1	GS	8-22-56				5.0	D	48	N	N	Ds		dry	
	CDE-253	2-16-18	Marian B. Charles	1917	2853.3	41	D		L	G 36			36.0	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well	Diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 6 N., R. 7 W.--Continued.											
6/7-5Q1	GS	8-21-56			2850	149.1		10	N N		Un	TcN 2.0	27.01	
	CDE-252	1917	Marian B. Charles	1912		157	C	7	C G	162			25.0	
5R1	GS	8-21-56	R. H. Tyler		2845	80	C		½		Dm	Na		
5R2	GS	8-21-56			2845	60			J 1		Dm	Na		
6G1	GS	8-22-56	J. A. Keagy		2905				L G		Dm	Na		
6J1	GS	8-22-56	J. A. Herrnburger		2870	78	R	8	J G		Dm	Na	30	
6K1	GS	8-22-56	J. A. Herrnburger		2900	103	C	6	J 1½		Dm	Na	40	
6R1	GS	8-22-56			2855	29.3	D	48	N N		Un	TcN 0	28.70	
7B1	GS	8-22-56	Civil Air Patrol		2865			8	T 1		Dm	TcS 1.0	35.62	
7E1	GS	8-23-56	Lazy S Ranch		2865	102.5		12	J 1		Dm	TcS 0	36.69	
7N1	GS	8-23-56	Floyd M. Payne	1936	2855	41.1	D	48	L W		S	Tcr 0	40.26	
7N2	GS	8-23-56	F. M. Payne	1936?	2875			24	L W		Dm	Na		
7Q1	GS	8-23-56						N	N N		Ds		dry	
	CDE-239	2-16-18	F. A. Forsyth	1914	2870.4	50	C	8	N N				37.5	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well	Diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 6 N., R. 7 W.--Continued.											
/7-7-1	CDE-240	1917	J. Dobersch				C	12	N	N				
-1	CDE-241	1917	G. B. Flock			42	C	8	N	N			37.0	
D1	GS	8-21-56			2840	25.0	D	48	N	N	Ds		dry	
	CDE-251	1917	T. R. Croswell			26	D		N	N			26.0	
9E1	GS	8-24-56			2865	44.7		36	J	1		TcN 2.0	33.68	
9K1	GS	8-27-56			2865	100		6	J	G	Dm	Na		
9P1	GS	8-24-56			2875	50.2		10	L	G	Dm	TcN 1.0	31.12	
9R1	GS	8-27-56	Nelson		2875	135		8	J	G	Dm	TcN 0	30	
	CDE-242	1917	T. S. Lindley	1914			C	8	N	N				
10E1	GS	12- 4-56				28.2		8	N	N	Ds		dry	
	CDE-243	1917	E. F. Anger		2857.1	140	D		L	G			24.0	
10P1	GS	8-27-56	Briegleb	1952	2865	74	C	10	J	2	60 Dm	TcN 1.0	22.47	C
10Q1	GS	8-27-56	Briegleb	1949	2865	165	RG	12	T	G	Un	Na	37	
11G1	GS	8-29-56				20.9		48	N	N	Ds		dry	
	CDE-245	2-21-18	E. J. Krause	1916	2849.2	210	C	12	C	G	378		21.0	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 6 N., R. 7 W.--Continued.										
6/7-11R1	GS	8-29-56	P. Coldiron		2865	450	C 24	T 40		I	Tc 0	143	C
11-1	CDE-246	2-21-18	K. McDonald		2853.9	25	D	N N				21.5	C
12N1	GS	8-29-56				23.6	D 48	N N		Un	TcS 1.0	20.33	
	F												W
	CDE-300	2-21-18			2867.0		D	L W				21.0	
12N2	GS	8-29-56			2860	26.4	D 48	L W		Un	TcrS 1.0	21.71	
12Q1	GS	8-29-56			2850	45.4	12	N N		Un			
14B1	GS	8-29-56				6.0	D	N N		Ds		dry	
	CDE-244	1917	J. Seward		2869.0		D	L G				23.2	
14L1	GS	8-29-56			2880	4.0	D 48	N N		Ds		dry	
	CDE-232	1917	R. Atz	1912			D	L G					
14Q1	GS	8-29-56	C. V. Pual		2900	440	R 14	T 40	1000	I			C
	F-14R1												
15C1	GS	8-27-56	C. Axley	1954	2875	73	C 8	L H		Dm	Tc 0	31.10	
15C2	GS	8-27-56			2875		8	N N		Un	Na		
15C3	GS	8-27-56	C. F. Blith		2880	46	6	L W		Dm	TcN 1.0	30.9	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well	Diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 6 N., R. 7 W.--Continued.											
17-15P1	GS	8-27-56	W. M. Price		2910	85	D		J ½		Dm		54	
15Q1	GS	8-27-56			2910			8	N N		Ds		dry	
	CDE-233	1917	E. White			58	C	8	L G				49.0	
16C1	GS	8-24-56	M. B. Hoar	1953	2885	91	R	8	J 1½		Dm	Na	50	
16F1	GS	8-24-56	L. F. Nelson		2925	104	R	8	J 1		Dm	Na	50	
16G1	GS	8-24-56	L. F. Nelson		2915	97.4		10	N N		Un	TcW 2.0	41.62	
16N1	GS	8-24-56	Joyce Monroe		2915	100	RG	6	J 1	125	Dm	Na	40	
16P1	GS	8-24-56	D. C. Allen		2915	224	R		T 10		Dm	Na	40	
16R1	GS	8-24-56			2915			8	J 1		Dm	Na		
17M1	GS	8-23-56			2905	51.3	D	48	N N		Un	TcS 1.0	46.41	
17Q1	GS	8-24-56	Lance Smith		2915	365	R		T 20			Na	45	
17R1	GS	8-24-56	R. P. King		2915	85		8	J 1		Dm	Na	40	
17-1	CDE-235	4- 7-17	Etta McKelvey	1916		300	C	12	N N				73.5	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 6 N., R. 7 W.--Continued.										
6/7-18Q1	GS	8-23-56				36.0	D 48	N N		Ds		dry	
	CDE-236	2-17-18	W. J. Shaw		2920.8		D	N N				55.5	
18-1	CDE-238	1917	W. E. Anderson				D	N N				52.0	
18-2	CDE-237	2-17-18	E. Bonino		2897.8		D	N N				50.0	
19E1	GS	8-30-56			2930	94.8	8	N N		Un	TcS 1.5	66.80	
19E2	GS	8-30-56			2930	212.8	12	J 10		Un	TcS 1.0	65.34	C
20C1	GS	8-30-56			2920	82.8	6	N N		Un	TcN 0	65.72	
	CDE-234	4- 7-17	W. Huston			67	D	N N				65.3	
21C1	GS	11- 6-56	Gregg		2915			J E		Dm	Na	125	
21C2	GS	11- 6-56	C. C. Seward		2925	120	CG 8	T 3	40	Dm	Na	58	
21D1	GS	11- 6-56	H. H. Cotten		2920	50	6	T 1		Dm			
21D2	GS	11- 6-56	L. L. Cotten	1955	2920	170	CG 10	N N		Dm	Tap .7	48.10	
21F1	GS	11- 6-56	Leona Napier	1937	2935	107.0	C 8	L W		Dm	Tcr 1.5	73.05	
21H1	GS	11- 6-56			2935	5.0	12	N N		Ds		dry	
	CDE-220	1917	J. R. Palmer	1912		330	C 12	N N				76.9	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well	Diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: Depth to water below lsd (feet)	Other data
			T. 6 N., R. 7 W.--Continued.											
/7-21M1	GS	11- 6-56	G. L. Loucks		2940		CG	6	L W		Dm	Tbc 0.6	75.50	
21P1	GS	9-21-56			2960		C	10	L W		Dm	TcE 1.5	93.06	
21Q1	GS	11- 6-56	Beau Kasta		2965	64.3	D	30	N N		Ds	Tc .8	dry	
	CDE-219	1917	C. B. Hawks			97	D		L G	9				
22L1	GS	11- 6-56	El Mirage Water Co.		2935	219.2		12	N N		Un	TcSE 1.0	58.05	
22J1	GS	11-14-56	Tanner Ranch	1955	2945	137		8			Dm	Na	87	L
22R1	GS	11- 7-56			2955			6	T G		Dm	Tcc .6	90.80	
22-1	CDE-221	4- 6-17	C. Williams			425	C	12	A G	117			73.0	
24M1	GS	11- 7-56				26.8	D	60	N N		Ds		dry	
	CDE-222	2-21-18	D. Anderson		2922.0	61	D		N N				57.0	
24R1	GS	11- 7-56			2950	94.1	C	12	N N		Un	TcS 1.7	87.85	
	CDE-223	3- 7-17	H. Braden				C		N N				88.6	
26N1	GS	11- 7-56	W. Campbell		3010	126.9	D	36	N N		Un	Tbc 0	126.67	W
	CDE-218	1917	W. Campbell	1916		400	C	12	C G	225			125.0	
26R1	GS	11- 7-56	H. L. Notterman		3005			12	N N		Un	TcS -.5	106.03	W

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 6 N., R. 7 W.--Continued.										
6/7-27N1	GS CDE-217	11- 7-56 1917	H. M. Engebritson	1915	3020	150	D	N L	N G 9	Un	Tcr	1.0	134.9C 135.0 W
27R1	GS	9-21-56			3010	273.9	C 12	L	W	S	TcE	.5	117.81
28B1	GS	11- 7-56			2975	106.6	D 36	N	N	Un	TcrE	.3	101.10
28P1	GS	11- 7-56			3020	120.4	8	N	N	Un	Tc	.9	118.30
29F1	GS	9-21-56	F. P. Yober	1942	2970	138	CG 10	L	W	Dm,S	TcE	.3	100.80
29N1	GS	9-21-56	Barbara Oliver		3015	150	C	L	W	Dm	TcW	0	128.10
29P1	GS	9-21-56		1956	3005	117.7	C 8	N	N		TcN	2.5	114.70
30-1	CDE-216	1917	Paul Showers	1915		295	C 12	L	G				80.0
30-2	CDE-317	1917	W. W. McKinney			159	D	N	N				139.0
31Q1	GS	9-21-56			3060	379.7	C 12	N	N	Un	TcS	1.0	159.70
31-1	CDE-215	4- 7-17	G. W. Phenice	1915		410	C 12	N	N				153.4

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 7 N., R. 6 W.										
7/6-31H1	GS	11-28-56	V. C. Garrish Co.		3075	300	C 8	L	G		Tc	0.3	d276.10
31H2	GS	11-28-56	V. C. Garrish Co.		3070	157.6	C	N	N				dry
31K1	GS	11-28-56	V. C. Garrish Co.		3045	201.2	C 12	N	N	Un	TcN	1.4	143.03
			T. 7 N., R. 7 W.										
7/7-6M1	GS	8- 8-56	S. H. McCling	1956	2930	145	R 10	L	G	Dm	Na		48
7F1	GS	8- 8-56	Smith		2944	58.2	D 48	L		Un	Tcr	1.0	52.85
7P1	GS	8- 8-56	D. E. Brown		2960	60	R 10	L	H	Dm	Na		40
8E1	GS	8- 9-56			2890	101.8	D	N	N	Un	Tcr	0	98.63
	CDE-261	1917	J. Young			100	D	N	N				95.0
17Q1	GS	8- 9-56	I. Tibess		2880			L	W	Un	Tcc	0	68.8
19N1	GS	8- 9-56	J. Wegner		2935	200	8	L	W	Dm			a150
20G1	GS	8- 9-56	I. Tibess		2870			L	W	Dm	Na		

a. Pumping.
d. Tape smears.

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 7 N., R. 7 W.--Continued.										
7/7-21G1	GS	8-15-56	J. F. Martin	1923	2870	96	D 10	L W		Dm	Na	46	
22L1	GS	8-16-56			2900	101.0	8	N N			TcN 2.0	82.74	
22-1	CDE-259	1917	C. Munsey	1913		118	C 7	L W				78.0	
26N1	GS	8-20-56				42.4	D 52	N N		Ds		dry	
	CDE-295	2-14-18	Gilbert	1917	2891.0		D	N N				74.0	
27F1	GS	8-15-56					36	J 1		Dm	Na		
	CDE-260	2-16-18	L. Hess	1917	2862.9	125	C 10	C G	675			46.0	
27L1	GS	11- 6-57	Albright		2835	231.7	18	N N		Un	TcN 1.0	32.71	
	GS	8-15-56									TcN 1.0	31.95	
28A1	GS	8-15-56			2845	64.3	12	N N		Un	TcS 3.0	34.40	
28K1	GS	8-14-56			2835	43.8	12	N N		Un	TcS 3.0	21.85	
28L1	GS	8-15-56			2850			N N		Un	Na		
28Q1	GS	8-14-56			2835		12	N N		Un	Tcc 3.0	18.76	
28-1	CDE-258	2-16-18	L. L. Whitlock		2848.0	93	C 7	C G				31.0	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point	Water level: (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 7 N., R. 7 W.--Continued.											
7N-7W-32F1	GS	8-14-56	Northan	1951	2865	78.0	R 12	N	N	Ds			dry	
32F2	GS	8-14-56	Northan		2870	149.0	R 10	N	N	Un	TcW	1.5	120.65	
32F3	GS	8-14-56	Northan		2870	104.5	RG 12	N	N	Un	TcS	0	98.32	
32F4	GS	8-14-56			2860		8	J	1	Dm	Na			
32H1	GS	8-10-56	E. F. Doerschel		2866	60	10	L	W	Dm	Na			C
32H2	GS	8-10-56	E. F. Doerschel		2845	38		J	½	Dm	Na		28	C
32R1	GS	8-14-56	D. T. Stokes		2855	41.0	8	L	W	Un	TcS	1.0	25.96	
32R2	GS	8-14-56	D. T. Stokes		2855	60	10	J	½	Dm	Na			
32R3	GS	8-14-56	D. T. Stokes		2855	60	10	L	G	Un	Na			
32-1	CDE-257	2-16-18	C. W. Brockman	1915	2843.3	80	C 12	N	N				27.0	
34C1	GS	8-15-56	Ana Lang		2845	30	R	L	1	Dm	Na			
35C1	GS	8-20-56	William Jensen		2850	181.1	12	N	N	Un	TcS	2.0	39.71	

USGS well number	Source of data and other numbers	Date of observation	Owner or user	Year completed	Altitude (feet)	Depth (feet)	Type well and diameter (in.)	Pump data: Type and power	Pump data: Yield (gpm)	Use of well	Water level: Measuring point (feet)	Water level: Depth to water below lsd (feet)	Other data
			T. 7 N., R. 7 W.--Continued.										
7/7-35D1	GS	8-20-56			2845	7	D 84	N	N	Ds		dry	
	CDE-294	2-14-18	B. M. Elsey		2857.0	44	D	N	G			42.0	
35G1	GS	12- 4-56				39.6	D 48	N	N	Ds		dry	
	CDE-256	2-14-18	L. C. Wheeler		2859.3		D	C	G			42.0	
35-1	CDE-297	2-21-18	John Breen		2837.5	25	D	N	N			20.0	
35-2	CDE-293	2-14-18	W. J. Jensen		2853.0	203	C 12	N	N			36.0	
36P1	GS	8-16-56	Louis Hembrick		2850	80.0	C 8	J	G	Dm	TcN 0	38.3	
36P2	GS	8-16-56	Louis Hembrick		2850	44.0	D 84	N	N	Un	TcN 0	37.14	C

Table 2.- Cross index of other well numbers and Geological Survey numbers

The first column shows the number assigned to the well by the other agency indicated and the second column shows the Geological Survey number assigned to the same well. The numbers of the other agencies are listed consecutively. Numbers missing in the consecutive listings are for wells outside the Upper Mojave Valley area, for wells for which no data are available, or for wells for which the other numbers and Geological Survey numbers are the same.

Part 1

California Department of Engineering (CDE) 1918, and Thompson (DGT) 1929

CDE number	USGS number	CDE number	USGS number	CDE number	USGS number
1	3/3-7M3	11	4/4-36Q1	21	4/3-29E2
2	3/3-7F5	12	4/3-31P1	22	4/3-29E1
3	3/3-7F3	13	4/3-31-1	23	4/3-20N1
4	3/3-6P1	14	4/3-30G1	24	4/3-20-2
5	3/4-1-1	15	4/3-20D2	25	4/3-20P1
6	3/4-1-2	16	4/3-30D1	26	4/3-20D1
7	3/4-1-3	17	4/3-19-3	27	4/3-17-1
8	3/3-6E1	18	4/3-19-1	28	4/3-17D1
9	4/4-36Q4	19	4/3-19-2	29	4/3-7R1
10	4/4-36R3	20	4/3-30R3	30	4/3-7K1

CDE number	USGS number	CDE number	USGS number	CDE number	USGS number
31	4/3-7M1	55	5/4-36N4	79	4/3-9N1
32	4/3-6N1	56	5/4-24C1	80	4/3-10P1
33	4/3-7G2	57	5/4-24-1	81	4/3-10R1
34	4/3-6E2	58	5/4-25H1	82	4/3-5P1
35	4/3-6-1	59	5/3-19N1	83	4/3-4E1
36	5/4-36H1	60	5/3-31D1	84	4/3-4-1
37	5/4-14P1	61	5/3-30N3	85	4/3-3B1
38	5/4-14P3	62	5/3-30N1	86	4/3-3R1
39	5/4-14P2	63	5/3-30-1	87	4/3-2F2
40	5/4-15C1	64	5/3-31-1	88	4/3-2B1
41	5/4-26G1	65	5/3-31-2	89	4/3-2R1
42	5/4-26G2	66	5/3-31R1	90	4/3-1M1
43	5/4-26J2	67	4/3-6D1	91	4/3-1-1
44	5/4-26-1	68	4/3-6G2	92	4/2-6N1
45	5/4-26R1	69	4/3-5N3	93	4/2-6E1
46	5/4-35A3	70	4/3-5D1	94	5/3-26R1
47	5/4-35A1	71	4/3-8D2	95	5/3-34F1
48	5/4-35A2	72	4/3-7A1	96	5/3-33-1
49	5/4-35H1	73	4/3-8M1	97	4/3-5A1
50	5/4-35H2	74	4/3-8P1	98	5/3-33M1
51	5/4-35-1	75	4/3-17L1	99	5/3-32-1
52	5/4-36N1	76	4/3-20-1	100	5/3-32L1
53	5/4-36P1	77	4/3-21-1	101	5/3-32H1
54	5/4-26-1	78	4/3-8-1	102	5/3-28N1

CDE number	USGS number	CDE number	USGS number	CDE number	USGS number
103	5/3-29-1	127	5/3-8N1	151	4/2-8-1
104	5/3-27N1	128	5/3-22E1	152	4/2-5H3
105	5/3-28A1	129	5/3-8G1	153	4/2-4E1
106	5/3-22N1	130	5/3-8-3	154	5/2-32F1
107	5/3-22-1	131	5/3-9-1	155	5/2-32G1
108	5/3-26-1	132	5/3-9J1	156	4/2-4B1
109	5/3-26H1	133	5/3-10M1	157	4/2-4G1
110	5/2-30D1	134	5/3-10K1	158	4/2-4-1
111	5/3-24-1	135	5/3-10-1	159	4/2-10D1
112	5/3-24E1	136	5/3-12H1	160	4/2-10G1
113	5/3-24D1	137	5/2-18D1	161	4/2-14C1
114	5/3-14-1	138	5/3-12-1	162	4/2-12G1
115	5/3-14N1	139	5/3-12F1	163	4/2-12H1
116	5/3-14E1	140	5/3-2-1	164	4/2-1H1
117	5/3-14D1	141	5/3-2N1	165	4/1-6E1
118	5/3-20-1	142	5/3-2-2	166	4/1-6-1
119	5/3-20F1	143	5/3-4G1	167	4/1-6E2
120	5/3-18R1	144	5/3-4-1	168	4/1-5N1
121	5/3-18-1	145	6/3-34L1	169	4/1-5N2
122	5/3-18-2	146	6/3-28R1	170	4/5-35C1
123	5/3-18F1	147	6/3-28Q1	171	4/6-15J1
124	5/3-18-3	148	5/3-7-1	172	4/5-22H1
125	5/3-8-1	149	5/3-6N1	173	5/6-35G1
126	5/3-8-2	150	4/2-5N1	174	4/5-5R1

CDE number	USGS number	CDE number	USGS number	CDE number	USGS number
175	5/6-22J1	214	5/6-6N1	238	6/7-18-1
176	5/6-22-1	215	6/7-31-1	239	6/7-7Q1
177	4/5-12P1	216	6/7-30-1	240	6/7-7-1
178	4/4-21C1	217	6/7-27N1	241	6/7-8-1
179	5/5-18-1	218	6/7-26N1	242	6/7-9R1
180	5/5-15-1	219	6/7-21Q1	243	6/7-10E1
181	5/5-20-1	220	6/7-21H1	244	6/7-14B1
182	5/4-16Q1	221	6/7-22-1	245	6/7-11G1
183	5/5-22-1	222	6/7-24M1	246	6/7-11-1
184	5/5-22M1	223	6/7-24R1	247	6/7-2N1
185	5/5-22E1	224	6/6-30K2	248	6/7-3-1
186	5/5-12R1	225	6/6-30K1	249	6/7-3P1
187	5/5-12-1	226	6/6-32K1	250	6/7-4Q1
188	5/5-13D1	227	6/6-28F1	251	6/7-9D1
189	5/5-2-1	228	6/6-28H1	252	6/7-5Q1
190	5/5-2H1	229	6/6-18Q1	253	6/7-5M1
191	5/5-8R1	230	6/6-18-1	254	6/7-5B1
192	5/6-12F2	231	6/6-18-2	255	6/6-7B1
193	5/5-6P1	232	6/7-14L1	256	7/7-35G1
209	5/7-5P1	233	6/7-15Q1	257	7/7-32-1
210	5/7-9H1	234	6/7-20C1	258	7/7-28-1
211	5/7-5-1	235	6/7-17-1	259	7/7-22-1
212	5/7-2Q1	236	6/7-18Q1	260	7/7-27F1
213	5/7-12P1	237	6/7-18-2	261	7/7-8E1

CDE number	USGS number	CDE number	USGS number	DGT number	USGS number
262	5/4-10L1	315	6/6-14N1	336	6/3-4-1
263	5/4-10C2	316	6/6-14R1	337	6/3-8A1
264	5/4-10F1	317	6/7-30-2	338	6/3-9E4
265	5/4-3-1	318	5/6-2-1	339	6/3-9E3
269	5/4-10-1	319	5/6-12N1	340	6/3-17B1
270	5/4-5-1	320	5/6-12-1	343	5/2-4-1
292	6/6-14P1	321	5/5-19-1	344	5/2-3-1
293	7/7-35-2	322	5/5-27Q1	345	5/2-10-1
294	7/7-35D1	323	5/5-24-1	346	5/2-12-1
295	7/7-26N1	324	5/5-1-1		
296	5/7-6E1	325	5/4-10E1		
297	7/7-35-1	326	5/3-34-1		
298	6/7-2M1	327	4/3-15-1		
299	6/7-3-2	328	4/2-4-2		
300	6/7-12N1	329	5/2-19-1		
301	4/5-18N1	330	5/2-19-2		
312	6/6-20-1	332	6/2-28-1		
313	6/6-27-1	333	6/2-33-1		
314	6/6-18N1				

Part 2

U-numbers assigned by all agencies doing ground-water work prior to July 1, 1943, when the Geological Survey numbering system was adopted (U. S. Geological Survey, 1945).

U number	USGS number	U number	USGS number	U number	USGS number
1	3/4-13B1	18	4/3-10R1	39	4/3-6N1
2	3/4-12Q1	18a	4/3-10R2	40	4/3-7G2
3	3/3-7M3	19	4/3-1M1	41	5/4-36P3
4	3/4-12J1	20	4/2-6N1	42	4/4-1-1
4a	3/4-1R2	21	4/2-5N1	43	4/3-6D1
5	3/4-1Q1	22	4/2-5H3	43a	4/3-6D2
6	3/3-6E1	23	4/3-19-1	44	4/3-6A1
6a	3/3-6E2	25	4/3-17L1	45	5/3-32L1
7	3/4-1-4	26	4/3-17E1	46	5/3-33-2
7a	3/4-1C2	27	4/3-18-1	47	5/3-31D1
8	4/3-31L5	28	4/3-18E1	48	5/3-30N3
9	4/3-30D1	28a	4/3-18E2	49	5/4-25H1
9a	4/3-30E1	29	4/3-17-1	50	5/4-24C1
10	4/3-29E1	30	4/3-18-2	51	5/3-26H1
11	4/3-30G1	31	4/3-5P1	52	5/3-24D1
12	4/3-19-4	32	4/3-8-1	52a	5/3-14-1
13	4/3-19R1	33	4/3-10P1	53	5/3-22-1
14	4/3-20N1	34	4/3-7K1	54	5/3-9J1
15	4/3-20P1	35	4/3-7M1	55	5/3-9-1
16	4/3-20K1	36	4/4-12-2	56	5/3-8-2
17	4/3-21-1	37	4/4-1R1	57	5/3-18F1

U number	USGS number	U number	USGS number	U number	USGS number
58	5/3-18-2	66	5/4-26J2	74	5/4-35N1
59	5/4-11P1	67	5/4-26J1	75	4/4-12B1
59a	5/4-11P2	68	5/4-35A1	75a	4/4-12-1
61	5/4-10M1	69	5/4-26R1	76	4/4-13B2
62	5/4-15C1	70	5/4-35-2	77	4/4-13J1
63	5/4-16Q1	71	5/4-35H2	78	4/4-13R1
64	5/4-27C4	72	5/4-36N1	79	4/3-19-3
65	5/4-26Q2	73	4/4-1D1		

Part 3

U. S. Bureau of Reclamation (BR), unpublished data, Boulder City, Nev.

USBR number	USGS number	USBR number	USGS number
7	6/6-18N1	34	5/3-35N1
28	6/3-9E4	35	5/3-32H1
30	6/3-28R1	36	4/1-18E1
31	5/3-3E1	42	3/5-14D1
32	5/3-22A1	43	3/4-28P1
33	5/3-24N1	44	3/4-32C1

Part 4

San Bernardino County Flood Control District (F), given only where different from Geological Survey number.

F number	USGS number	F number	USGS number
3/4-29P1	3/4-32C1	5/5-4D1	5/5-5A1
3/5-15A1	3/5-14D1	5/5-22N1	5/5-22E1
4/3-6A2	4/3-6A1	6/2-33X1	6/2-34M1
4/3-19G1	4/3-19-1	6/3-9E1	6/3-9E4
4/3-20L1	4/3-20P1	6/3-9P1	6/3-9E2
4/3-30E1	4/3-30D1	6/5-33L1	5/5-4C1
4/4-26G1	4/4-25N1	6/6-18P1	6/6-18Q2
4/4-26M1	4/4-26Q1	6/6-24A1	6/6-24H1
4/4-28C1	4/4-28E1	6/6-28E1	6/6-28F1
5/3-3D1	5/3-3E1	6/6-32P1	6/6-32K1
5/3-9K1	5/3-9-1	6/7-14R1	6/7-14Q1

Table 3.- References that contain water-level measurements in wells in the Upper Mojave Valley area, Calif.

Years for which measurements are available	Reference[1]	Year of publication
1912, 1917-18	California Department of Engineering	1918
1905-32	California Division of Water Resources	1934
1946-50	San Bernardino County Flood Control District	1951
1951-52	San Bernardino County Flood Control District	1954

U. S. Geological Survey Water-Supply Papers[1]

Years for which measurements are available	No. of Water Supply Paper	Year of publication	Years for which measurements are available	No. of Water Supply Paper	Year of publication
1912, 1917-18 1928	578	1929	1947	1101	1951
a1905-39	886	1940	1948	1131	1951
1940	911	1941	1949	1161	1952
1941	941	1943	1950	1170	1953
1942	949	1944	1951	1196	1954
1943	991	1945	1952	1226	1955
1944	1021	1947	1953	1270	1956
1945	1028	1949	1954	1326	1957
1946	1076	1949	1955	1409	1957

1. For complete titles see references.
a. Measurements for years prior to 1932 are reprinted from earlier publications cited above.

Table 4.- Wells for which periodic water-level records are available

(Published and unpublished data)

USGS No.	F No.[1]	U No.	CDE or DGT No.[2]	USBR No.[3]	Records available (years)[4]
3/3-6E1		U-6	8		1915, 1917, 1929-32 1935-55, 1957
6E2		U-6a			1946, 1948-57
7M3		U-3	1		1917, 1930-32, 1957
3/4-1C2		U-7a			1931-32
1Q1		U-5			1913; 1917, 1931
1R2		U-4a			1932, 1957
1-4		U-7			1930-31
12J1		U-4			1929-32, 1935-52, 1956
3/4-12Q1		U-2			1929, 1931-32, 1957
13B1		U-1			1922-23, 1929-33, 1935-57
13B2					1951, 1953-57
28P1				43	1950, 1953-57
28P2					1956-57
32C1	32D1			44	1950, 1953-57
3/5-14D1	15A1			42	1950, 1953-57
4/1-18E1				36	1948, 1953-57
4/2-5H3		U-22	152		1917, 1930-32
5N1		U-21	150		1923, 1930-33, 1935-41
6N1		U-20	92		1917, 1923-32
4/3-1M1		U-19	90		1917, 1930-33, 1939-43 1945-54, 1955-56
5P1		U-31	82		1917, 1931-32, 1939-47
6A1	6B1	U-44			1931-32, 1934, 1939-57
6A2	6B1				1955-57
6D1		U-43	67		1917, 1930-34, 1939-57
6D2		U-43a			1949-57
4/3-6N1		U-39	32		1906-07, 1917, 1930-32
7G2		U-40	33		1904-05, 1907, 1911
7K1		U-34	30		1917, 1930-33
7M1		U-35	31		1918?, 1931-32, 1956
8-1		U-32	78		1917, 1931
4/3-10P1		U-33	80		1917, 1931, 1956-57
10R1		U-18	81		1917?, 1930-32, 1956
10R2		U-18a			1931-33, 1935-40, 1956

USGS No.	F No.[1]	U No.	CDE or DGT No.[2]	USER No.[3]	Records available (years)[4]
4/3-17E1		U-26			1905, 1916, 1922-23, 1930-49, 1951-52
17L1		U-25	75		1917, 1930-32, 1934, 1956
17-1		U-29	27		1917, 1930-32, 1934
18E1		U-28			1930-32, 1935, 1938-57
18E2		U-28a			1930-32
4/3-18-1		U-27			1905, 1911, 1930-38
18-2		U-30			1931-32
19R1		U-13			1905, 1907, 1930-55
19-1	19G1	U-23	18		1917, 1931-51
19-3		U-79	17		1917, 1931
4/3-19-4		U-12			1906-07, 1932
20K1		U-16			1931-37, 1939-41, 1944-45, 1956
20N1		U-14	23		1917, 1930-43
20P1	20L1	U-15	25		1917, 1923, 1930-52, 1954, 1956-57
21-1		U-17	77		1917, 1923, 1930-42, 1944-50
4/3-29E1		U-10	22		Arrowhead 1905, 1907, 1917, 1931, 1956
30D1	30E1	U-9	16		1917, 1930-32, 1935-52, 1954, 1956
30E1		U-9a			1930, 1957
30G1		U-11	14		1917, 1931-32, 1957
31L5		U-8			Arrowhead 1905, 1909, 1930-32, 1956
4/4-1D1		U-73			Arrowhead 1905, 1920,
1R1		U-37			1930-33, 1956
1-1		U-42			Arrowhead 1905, 1916
12B1		U-75			Arrowhead dry 1905, 1916, 1931-32, 1957
12-1		U-75a			1931-32

USGS No.	F No.[1]	U No.	CDE or DGT No.[2]	USBR No.[3]	Records available (years)[4]
4/4-12-2		U-36			Arrowhead 1905, 1907
13B2		U-76			1931-32, 1957
13J1		U-77			1930-31, 1957
13R1		U-78			1931-32, 1957
25N1	26G1				1952-57
4/4-26Q1	26M1				1952-57
28E1	28C1				1949-54, 1957
5/3-3E1	3D1			31	1948-49, 1951-57
8-2		U-56	127		1917, 1931
9J1		U-54	132		1917, 1930-32
9-1	9K1	U-55	131		1917, 1930-33, 1935, 1937-49
13D1					1948-57
5/3-14-1		U-52a	114		1917, 1931-32
18F1		U-57	123		1917, 1923, 1930-33, 1935, 1937-53, 1955-57
18-2		U-58	122		1917, 1923, 1930-32
22A1				32	1948-57
22-1		U-53	107		1917, 1923, 1930-32
5/3-24D1		U-52	113		1917, 1931-33, 1957
24N1				33	1948-57
26H1		U-51	109		1917, 1923, 1930-33
30N3		U-48	61		1917, 1930-32
31D1		U-47	60		1905, 1917, 1930-32
5/3-32H1			101	35	1917, 1950, 1954-57
32L1		U-45	100		1917?, 1931, 1956
33-2		U-46			1931-32
35N1				34	1950, 1953-57
5/4-10M1		U-61			1930-32, 1935, 1937-45, 1947-57
11P1		U-59			1931-32, 1935-57
11P2		U-59a			1931-32, 1935-54, 1956-57
15C1		U-62	40		1917, 1930-31, 1957
16Q1		U-63	182		1917, 1930-31, 1957
5/4-24C1		U-50	56		1917, 1930-32, 1957
25H1		U-49	58		1905, 1922, 1930-31, 1956
26J1		U-67			1931, 1957
26J2		U-66	43		1917, 1930-31, 1956
26Q2		U-65			1930-32, 1957

USGS No.	F No.1/	U No.	CDE or DGT No.2/	USBR No.3/	Records available (years)4/
5/4-26R1		U-69	45	45	1917, 1930-31, 1956
27C4		U-64			1930-33, 1957
35A1		U-68	47		1917, 1930-31, 1940, 1945, 1948-57
35H2		U-71	50		1917, 1930-31, 1956
35N1		U-74			1930-33, 1957
5/4-35-2		U-70			1930-31
36N1		U-72	52		1917, 1930-45, 1949-50, 1953, 1955-57
36P3		U-41			1931-32
5/5-4C1	33L1				1948-57
22E1	22N1		185		1918, 1947-57
6/2-34M1	33X1				1954-57
6/3-9D1					1953, 1955-57
9D2					1953-57
9E2	9P1				1953-57
9E4	9E1		338	28	1918, 1950, 1953-57
17B1			340		1917, 1953-57
28R1			146	30	1917, 1946, 1948-54, 1956-57
6/6-14P1			292		1918, 1947-57
14R1			316		1918, 1928, 1947-57
18Q2	18P1				1947-57
21A1					1947-51, 1955-57
24H1	24A1				1947-57
6/6-28F1	28E1		227		1918, 1947-49, 1954
28H1			228		1918, 1952-57
32K1	32P1		226		1918, 1947, 1949-57
6/7-12N1			300		1918, 1947-50, 1952-57
14Q1	14R1				1950-57
26N1			218		1917, 1928, 1947-57
26R1					1950-57
27N1			217		1918, 1947-57

1. San Bernardino County Flood Control District numbers are shown only where different from U. S. Geological Survey numbers.

2. California Department of Engineering (1918) data are also shown in WSP 578 by D. G. Thompson (1929) who included 11 additional wells.

3. U. S. Bureau of Reclamation measurements have not been published previously and are included herein.

4. See table 3 for references to published water-level measurements see table 1 or 5 for unpublished water-level measurements.

Table 5.- Records of water levels in wells

Table 5 includes all unpublished records for wells having more than five water-level measurements; wells having less than five measurements are shown in table 1. Also included in this table are the complete published and unpublished records for wells 4/3-18E1, 5/3-22A1, 5/4-11P1, 5/4-36N1, 6/6-14R1, 6/6-32K1, and 6/7-12N1, which have been selected as representative to show the range of water-level fluctuation in various parts of the Upper Mojave Valley area.

Altitudes given are in feet above mean sea level for the land-surface datum at the well. Land-surface datum is a plane of reference which approximates land surface. Altitudes given in whole feet are interpolated from topographic maps. Altitudes given in feet and tenths were determined by spirit leveling (from U. S. Bureau of Reclamation records).

Measurements. Most of the water-level measurements were made by the U. S. Geological Survey (GS) mainly in years prior to 1954; by the U. S. Bureau of Reclamation (BR) mainly in 1946 and 1947; and by the San Bernardino County Flood Control District (F) mainly in years since 1953. All measurements of water level have been adjusted to depth below land-surface datum. That is, the altitudes of the measuring points as reported above or below land-surface datum have been subtracted from or added to the water-level measurements.

3/3-6E1 (U-6, CDE-8). McBain, formerly Spranger. Depth about 30 feet. Altitude is about 2,940 feet. Records available: 1915, 1917, 1929-32, 1953-57. Records furnished: 1946-47, BR; 1948-53, GS; 1954-57, F; except as indicated.

Date	Water level	Date	Water level	Date	Water level
Aug. 6, 1946	21.7	Mar. 19, 1947	5.5	Jan. 15, 1951	dry
20	23.1	Apr. 8	5.3	June 13	dry
28	23.9	29	5.3	Jan. 21, 1952	5.5
Sept. 5	24.6	May 13	9.1	Feb. 11	5.4
12	25.1	26	11.4	Mar. 12	4.9
Sept. 19	25.7	June 9	13.8	Apr. 8	3.6
26	26.3	23	16.6	May 28	4.7
29	20.6	July 8	19.9	June 11	5.2
Oct. 2	26.9	22	22.2	July 14	15.4
9	28.1	Aug. 6	24.4	Aug. 19	22.1
Oct. 16	33.4	Apr. 14, 1948	6.7	Sept. 15	25.6
22	32.4	June 14	18.6	Oct. 15	27.6
29	32.0	July 13	24.0	Nov. 24	27.6
Nov. 5	32.1	Aug. 10	28.4	Jan. 15, 1953	32.3
19	6.7	Sept. 14	dry	Feb. 16	dry
Nov. 26	5.6	Jan. 23, 1950	dry	Apr. 13	27.8
Dec. 5	5.7	Feb. 15	6.1	May 11, 1954	4.9
16	5.7	Mar. 14	17.0	Apr. 12, 1955	8.4
Jan. 21, 1947	5.4	Apr. 18	11.3	Dec. 8	dry
Feb. 3	5.4	May 5	21.1	Mar. 6, 1956	dry[a]
Feb. 19	5.3	June 14	28.4	Apr. 30, 1957	29.4
Mar. 4	5.3	July 14	dry		

a. Measurement by Geological Survey.

3/3-6E2 (U-6a). McBain, formerly Spranger. Depth about 61 feet. Altitude is about 2,940 feet. Records available: 1946, 1948-57. Records furnished: 1946, BR; 1948-May 1956, GS; November 1953-1957, F; except as indicated.

Date	Water level	Date	Water level	Date	Water level
July 29, 1946	20.6	Aug. 17, 1949	26.6	Nov. 26, 1951	57.27
Aug. 6	21.6	Sept. 14	29.9	Dec. 12	58.38
20	23.1	Oct. 18	33.6	Jan. 21, 1952	5.05
28	23.9	Nov. 14	35.91	Feb. 11	5.18
Sept. 5	24.6	Dec. 13	37.8	Mar. 12	4.57
Sept. 12	25.1	Jan. 23, 1950	36.5	Apr. 9	4.19
19	25.7	Feb. 15	5.7	May 28	4.49
26	26.3	Mar. 14	17.3	June 11	5.02
Oct. 2	26.9	Apr. 18	11.13	July 14	15.70
9	28.1	May 5	20.89	Aug. 19	20.90
Oct. 22	32.4	June 14	28.0	Sept. 15	25.0
Apr. 7, 1948	20.8	July 14	31.9	Oct. 15	28.3
14	4.7	Aug. 14	35.6	Nov. 24	32.05
June 3	14.0	Sept. 13	38.7	Jan. 15, 1953	26.48
14	17.0	Oct. 16	41.3	Feb. 16	29.82
July 13	23.5	Nov. 3	41.8	Mar. 16	30.80
Aug. 10	28.0	Dec. 15	44.0	Apr. 13	25.99
Sept. 14	33.6	Jan. 15, 1951	45.4	May 26	30.80
Oct. 13	35.6	Feb. 13	46.65	Nov. 6	48.77
Nov. 24	37.8	Mar. 19	48.0	May 11, 1954	4.50
Dec. 9	38.5	Apr. 17	51.4	Nov. 16	37.80
Feb. 17, 1949	41.5	June 13	51.07	Apr. 12, 1955	9.10
Mar. 16	4.8	July 16	52.48	Dec. 8	44.40
Apr. 13	4.6	Aug. 13	53.88	Mar. 6, 1956	a32.85
May 11	6.1	Sept. 10	54.83	29	35.64
				Dec. 18	53.07
June 16	14.7	Oct. 15	56.17	Apr. 30, 1957	27.76
July 13	21.1			Nov. 5	a45.89

a. Measurement by Geological Survey.

3/4-13B1 (U-1). Pittinger, formerly Olive. Depth unknown. Altitude is about 3,005 feet. Records available: 1922-23, 1929-33, 1935-57. Records furnished by F except as indicated.

Date	Water level	Date	Water level	Date	Water level
Nov. 6, 1953	83.80	Feb. 16, 1956	a83.50	Apr. 30, 1957	81.66
Apr. 12, 1955	83.30	Apr. 5	82.11		
Dec. 8	84.75	Dec. 18	dry		

3/4-28P1 (BR-43). Las Flores Ranch. Depth about 340 feet. Altitude is 3,168.6 feet. Records available: 1950, 1953-57.

Nov. 3, 1950	b16.8	Nov. 16, 1954	c10.30	Dec. 18, 1956	c19.45
Nov. 6, 1953	b13.5	Apr. 12, 1955	c4.90	Apr. 30, 1957	c3.17
May 11, 1954	c8.95	Apr. 5, 1956	a4.80		

3/4-32C1 (BR-44, F-29P1). Las Flores Ranch. Depth about 60 feet. Altitude is 3,187.0 feet. Records available: 1950, 1953-57.

Nov. 3, 1950	b12.9	Nov. 16, 1954	c9.70	Apr. 5, 1956	a9.85
Nov. 6, 1953	c12.60	Apr. 12, 1955	c8.26	Dec. 18	c13.43
May 11, 1954	c7.00	Dec. 5	c11.30	Apr. 30, 1957	c11.45

3/5-14D1 (BR-42, F-15A1). Las Flores Ranch. Depth about 276 feet. Altitude is 2,602.3 feet. Records available: 1950, 1953-57. Records furnished by F except as indicated.

Nov. 3, 1950	b240	Apr. 12, 1955	239.50	Apr. 30, 1957	241.54
Nov. 6, 1953	243.30	Dec. 9	243.20	Nov. 5	a242.91
Nov. 16, 1954	236.55	Apr. 5, 1956	a240.85		

4/1-18E1 (BR-36). George McCarthy. Depth about 200 feet. Altitude is 2,968.1 feet. Records available: 1948, 1953-57.

Nov. 13, 1948	b62.1	May 12, 1954	c44.2	Dec. 18, 1956	c56.63
Dec. 2	b67.69	Nov. 16	c43.5	Jan. 3, 1957	a56.88
Nov. 9, 1953	c45.7	Apr. 13, 1955	c37.99	May 1	c56.20
Feb. 5, 1954	a56.98	Dec. 9	c49.40		

4/3-6A1 (F-6B1, U-44). New Way Laundry, formerly A. J. Lintner. Depth about 99 feet. Altitude is 2,871.91 feet. Records available: 1931-32, 1934, 1939-57. Except for the measurement of June 13, 1956, it appears likely that these measurements were inadvertently made in well 6A2 and reported for well 6A1 (F-6B1). (See tables 1 and 4.)

Apr. 12, 1955	c71.89	Apr. 5, 1956	c68.50	Dec. 18, 1956	c70.71
Dec. 9	c68.57	June 13	a70.92	Apr. 30, 1957	c70.79

a. Measurement by Geological Survey.
b. Record from Bureau of Reclamation.
c. Record from San Bernardino County Flood Control District.

4/3-6D1 (U-43, CDE-67). W. J. Smithson, formerly Phillips. Depth about 100 feet. Altitude is 2,866.5 feet. Records available: 1917, 1930-34, 1939-57. Records furnished: 1946-47, BR; 1948-52, GS; 1955-57, F; except as indicated.

Date	Water level	Date	Water level	Date	Water level
July 29, 1946	52.3	Sept. 3, 1947	53.9	Dec. 15, 1950	59.7
Aug. 6	52.5	Oct. 9	54.6	Jan. 15, 1951	59.0
20	52.6	Nov. 12	53.5	Feb. 13	58.8
29	53.2	Dec. 8	53.0	Mar. 19	58.7
Sept. 5	52.9	Jan. 7, 1948	52.7	Apr. 17	59.57
Sept. 12	52.9	Feb. 16	52.7	June 13	61.26
19	52.9	Mar. 10	52.8	July 16	60.44
26	53.0	Apr. 14	53.3	Aug. 13	60.21
Oct. 2	52.9	June 14	54.7	Sept. 10	63.99
9	52.9	July 13	57.8	Oct. 15	64.17
Oct. 16	52.8	Aug. 10	56.3	Dec. 12	62.32
22	52.7	Sept. 14	57.1	Jan. 21, 1952	64.34
29	52.7	Oct. 13	57.0	Feb. 11	60.10
Nov. 5	52.7	Dec. 9	55.7	Mar. 12	54.11
19	52.4	Jan. 17, 1949	55.2	Apr. 9	58.94
Nov. 26	52.3	Feb. 17	55.1	June 11	59.5
Dec. 5	52.0	Mar. 16	55.1	July 14	60.08
16	51.8	Apr. 13	56.0	Aug. 19	60.90
Jan. 7, 1947	52.0	June 16	57.5	Sept. 15	61.5
21	51.2	July 13	58.6	Oct. 15	60.9
Feb. 3	51.0	Aug. 17	58.7	Dec. 15	59.21
19	50.9	Sept. 14	59.3	Apr. 12, 1955	62.80
Mar. 4	51.0	Oct. 18	59.2	Mar. 29, 1956	64.65
19	51.0	Dec. 13	57.6	June 20	a66.62
Apr. 8	51.5	Jan. 23, 1950	56.7	Nov. 5	69.78
Apr. 29	51.5	Feb. 15	56.6	Dec. 5	67.10
May 13	51.6	Mar. 14	56.8	Jan. 2, 1957	66.86
26	51.8	Apr. 18	57.7	Feb. 6	65.96
June 9	52.0	June 14	59.3	Mar. 6	65.82
23	52.2	July 14	60.0	Apr. 3	65.61
July 8	55.4	Aug. 14	60.16	Apr. 30	66.48
22	53.3	Sept. 13	60.5	June 3	67.34
Aug. 6	55.8	Oct. 16	60.7		

a. Measurement by Geological Survey.

4/3-6D2 (U-43a). W. J. Smithson, formerly Phillips. Depth about 100 feet. Altitude is about 2,870 feet. Records available: 1949-57. Records furnished: 1949-53, GS; and 1954-57, F.

Date	Water level	Date	Water level	Date	Water level
June 16, 1949	57.6	Sept. 13, 1950	60.0	Jan. 15, 1953	57.05
July 13	57.1	Oct. 16	60.1	Feb. 16	57.65
Sept. 14	58.5	Dec. 15	59.2	Mar. 16	57.30
Oct. 18	58.7	Jan. 15, 1951	58.5	Apr. 13	58.16
Dec. 13	57.8	Feb. 13	58.3	Mar. 29, 1954	60.40
Jan. 23, 1950	57.0	Mar. 19	58.1	May 12	69.70
Feb. 15	56.6	Apr. 17	59.1	Nov. 16	61.80
Mar. 14	55.2	Aug. 13	61.91	Apr. 12, 1955	61.03
Apr. 18	57.2	June 11, 1952	58.14	Dec. 9	64.82
June 14	58.8	July 14	59.58	Dec. 2, 1956	65.29
July 14	59.2	Aug. 19	59.3	Apr. 30, 1957	64.66
Aug. 14	59.53	Sept. 15	60.85		

4/3-18E1 (U-28). Owner unknown, formerly C. O. Evans. Depth unknown. Altitude is 2,866.58 feet. Records available: 1930-32, 1935, 1938-57. Records from Geological Survey Water-Supply Papers or from F, except as indicated.

Jan. 18, 1930	28.85	Nov. 12, 1941	21.55	Oct. 16, 1946	b22.8
Jan. 28, 1931	28.48	May 6, 1942	22.61	22	23.6
Feb. 12	28.25	Nov. 20	25.12	29	b23.1
20	28.32	May 12, 1943	14.48	Nov. 5	b23.2
May 1	29.30	Dec. 20	22.80	19	b23.0
July 28	30.38	Apr. 20, 1944	15.27	Nov. 26	b20.1
Oct. 8	30.84	Dec. 14	16.03	Dec. 5	b19.0
Jan. 15, 1932	30.48	May 2, 1945	14.36	16	b18.5
Feb. 19	26.00	Nov. 21	21.71	Jan. 6, 1947	b17.0
Mar. 25	21.60	Apr. 24, 1946	17.02	21	b16.6
May 5	20.84	July 29	b21.5	Feb. 3	b16.4
Sept. 13	24.01	Aug. 6	b21.8	19	b15.9
Apr. 18, 1935	21.50	20	b22.2	Mar. 4	b15.9
May 8	20.14	28	b22.7	19	b16.5
22	20.70	Sept. 5	b21.9	Apr. 8	b17.3
Oct. 29, 1938	22.12	Sept. 12	b22.1	Apr. 29	b18.2
June 7, 1939	20.05	19	b22.3	May 13	b18.7
Nov. 24	24.24	26	b22.5	15	18.8
Nov. 20, 1940	25.46	Oct. 2	b22.6	26	b19.1
June 17, 1941	15.25	9	b22.7	June 9	b19.7

Continued

b. Record from U. S. Bureau of Reclamation.

4/3-18E1 (U-28).--Continued.

Date	Water level	Date	Water level	Date	Water level
June 24, 1947	b20.2	Nov. 14, 1949	31.43	June 11, 1952	24.38
July 8	b21.6	Dec. 13	33.9	July 14	27.30
22	b22.3	Jan. 23, 1950	31.3	Aug. 19	26.80
Aug. 6	b22.9	Feb. 15	31.3	Sept. 15	33.60
Sept. 3	22.8	Mar. 14	32.0	Oct. 15	34.0
Oct. 9	23.5	Apr. 18	32.68	Nov. 24	dry
Nov. 12	24.2	May 5	33.24	Dec. 15	32.85
Dec. 8	24.5	June 14	34.0	Jan. 15, 1953	32.11
Jan. 7, 1948	24.9	July 14	34.8	Feb. 16	33.32
Feb. 16	25.4	Sept. 13	35.8	Mar. 16	33.50
Mar. 10	25.8	Oct. 16	35.8	Apr. 13	37.20
Apr. 14	26.65	Nov. 3	34.6	May 26	36.55
May 6	26.73	Dec. 15	35.6	Nov. 6	38.80
June 14	27.6	Jan. 15, 1951	35.1	May 11, 1954	31.90
July 13	29.0	Feb. 13	35.9	Nov. 16	37.65
Aug. 10	29.5	Mar. 19	36.5	Apr. 12, 1955	40.14
Sept. 14	29.4	May 3	dry?	Dec. 8	42.50
Oct. 13	30.0	June 13	37.98	Mar. 29, 1956	42.78
Dec. 1	29.9	July 16	39.00	Apr. 5	42.78
9	29.9	Aug. 13	39.36	Nov. 5	45.14
Feb. 17, 1949	30.3	Sept. 10	41.00	Dec. 5	45.28
Mar. 16	30.4	Oct. 15	39.75	Jan. 2, 1957	45.24
Apr. 13	29.5	Nov. 26	dry	Feb. 6	44.98
May 10	27.34	Dec. 12	39.80	Mar. 6	45.68
June 16	28.9	Jan. 21, 1952	35.89	Apr. 3	45.35
July 13	32.0	Feb. 11	33.79	Apr. 30	45.62
Aug. 17	30.6	Mar. 12	31.32	June 3	45.76
Sept. 14	31.5	Apr. 9	26.29	Nov. 5	a47.18
Oct. 18	31.43	May 28	23.10		

4/3-19R1 (U-13). Owner unknown, formerly Arrowhead Reservoir and Power Co. Depth unknown. Altitude is about 2,885 feet. Records available: 1905, 1907, 1930-56. Records furnished by F.

Jan. 15, 1953	35.88	Apr. 13, 1953	40.32	Mar. 29, 1956	Well destroyed
Feb. 16	37.70	Apr. 12, 1955	43.80		
Mar. 16	37.00	Dec. 8	39.50		

a. Measurement by Geological Survey.
b. Record from U. S. Bureau of Reclamation.

4/4-25N1 (F-26G1). Hesperia Water Co., formerly Tatum Brothers No. 3. Depth about 516 feet. Altitude is about 3,040 feet. Records available: 1952-57.

Date	Water level	Date	Water level	Date	Water level
Sept. 15, 1952	a189.7	Apr. 13, 1953	a193.07	Apr. 5, 1956	a198.40
Dec. 15	a192.3	May 11, 1954	c208.7	Dec. 18	c202.35
Jan. 15, 1953	a192.12	Nov. 16	c197.30	Mar. 14, 1957	a202.89
Feb. 16	a193.28	Dec. 8, 1955	c199.10	Apr. 30	c201.73

4/4-26Q1 (F-26M1). Hesperia Water Co., formerly Tatum Brothers No. 5. Depth about 385 feet. Altitude is about 3,105 feet. Records available: 1952-57.

Sept. 15, 1952	a250.9	Apr. 13, 1953	a266.4	Dec. 8, 1955	c274.2
Dec. 15	a262.3	Nov. 6	c263.6	Dec. 18, 1956	c270.1
Jan. 15, 1953	a262.4	May 11, 1954	c275.8	Mar. 14, 1957	a294.39
Feb. 16	a272.5	Nov. 16	c266.1	Apr. 30	c269.4
Mar. 16	a262.8	Apr. 12, 1955	c270.5		

4/4-28E1 (F-26C1). Hesperia Water Co., formerly Tatum Brothers No. 6. Depth is about 709 feet. Altitude is about 3,280 feet. Records available: 1949-50, 1952-53, 1957.

March --, 1949	b431	Dec. 15, 1952	a439	Mar. 16, 1953	c429
Nov. --, 1950	c430	Jan. 15, 1953	a439	Mar. 13, 1957	a451.12
Sept. 15, 1952	a438	Feb. 16	c440		

5/3-3E1 (F-3D1, BR-31). R. Lewis. Depth unknown. Altitude is 2,914.2 feet. Records available: 1948-49, 1951-57.

Dec. 8, 1955	c85.20	Dec. 18, 1956	c86.86	Apr. 30, 1957	c89.64
Apr. 5, 1956	a87.99	Apr. 17, 1957	a88.63		

a. Measurement by Geological Survey.
b. Record from U. S. Bureau of Reclamation.
c. Record from San Bernardino County Flood Control District.

5/3-9-1 (F-9K1, U-55, CDE-131). F. A. Fletcher. Depth about 458 feet. Altitude is 2,910.0 feet. Records available: 1917, 1930-33, 1935, 1937-49. Records furnished: 1946-47, BR; and 1948-49, GS.

Date	Water level	Date	Water level	Date	Water level
July 29, 1946	88.8	Dec. 5, 1946	88.8	Sept. 3, 1947	88.7
Aug. 6	88.7	16	88.7	Oct. 9	88.8
20	88.0	Jan. 21, 1947	88.8	Nov. 11	88.6
28	88.7	Feb. 3	88.7	Dec. 8	88.8
Sept. 5	88.8	19	88.8	Feb. 16, 1948	88.8
Sept. 12	88.9	Mar. 4	88.8	Mar. 10	88.9
19	88.8	19	88.8	Apr. 14	88.9
26	88.8	Apr. 8	88.8	June 14	89.0
Oct. 2	88.8	29	88.7	July 13	92.3
9	88.8	May 13	88.8	Aug. 10	100.5
Oct. 16	88.8	May 26	88.7	Sept. 14	89.0
22	88.8	June 9	88.7	Oct. 13	89.0
29	88.8	24	88.7	Nov. 19	88.7
Nov. 5	88.7	July 8	88.8	Dec. 9	89.1
19	88.8	22	88.8	Feb. 17, 1949	90.7
26	88.8	Aug. 6	88.7	Mar. 6	Well destroyed

5/3-13D1. Owner unknown, formerly Eva V. Case. Depth unknown. Altitude is about 2,930 feet. Records available: 1948-57.

July 14, 1948 a89.30	Apr. 5, 1956 a91.60	Apr. 30, 1957 c92.56
Apr. 12, 1955 c91.20	Dec. 18 c92.20	
Dec. 8 c91.45	Apr. 24, 1957 a92.51	

5/3-18F1 (U-57, CDE-123). Apple Valley Ranchos Water Co., formerly J. D. Humiston. Depth about 464 feet. Altitude is 2,908.0 feet. Records available: 1917, 1923, 1930-33, 1935, 1937-53, 1955-57.

Jan. 16, 1953 a115.11	Apr. 5, 1956 a117.30	Mar. 6, 1957 c122.18
Feb. 17 a115.89	Nov. 5 c127.4	Apr. 3 c121.60
Mar. 17 a115.73	Dec. 5 c120.9	Apr. 30 a123.69
Dec. 18, 1955 c119.18	Feb. 6, 1957 c120.5	June 3 c125.50

5/3-22A1 (BR-32). R. Werner, formerly Curtis Marshall, formerly Rothwell. Depth about 267 feet. Altitude is 2,923.6 feet. Records available: 1948-57.

Jan. 14, 1948 a88.67	Nov. 7, 1950 b90.55	Nov. 16, 1954 c102.40
May 7 a88.87	May 4, 1951 a90.92	Dec. 8, 1955 c95.70
Nov. 19 a89.18	May 29, 1952 a92.09	Apr. 5, 1956 a95.60
May 11, 1949 a89.61	Nov. 24 a91.87	May 1, 1957 ae113.76
Nov. 15 a89.65	Nov. 6, 1953 c98.40	Nov. 5 a97.96
May 4, 1950 a90.18		

a. Measurement by Geological Survey.
b. Record from U. S. Bureau of Reclamation.
c. Record from San Bernardino County Flood Control District.

5/3-24N1 (BR-33). R. Douglas. Depth unknown. Altitude is 2,927.7 feet. Records available: 1948-57.

Date	Water level	Date	Water level	Date	Water level
Jan. 24, 1948	a89.04	Dec. 8, 1955	c102.30	Apr. 31, 1957	c97.90
Nov. 7, 1950	b90.5	Apr. 5, 1956	a104.70	May 3	a96.63
Apr. 12, 1955	a99.80	Dec. 18	c96.85		

5/3-32H1 (BR-35, CDE-101). Newton Bass, formerly Abbots, formerly Smith. Depth about 269 feet. Altitude is 2,986.8 feet. Records available: 1917, 1950, 1954-57.

Nov. 14, 1950	b162.9	Apr. 12, 1955	c186.90	Dec. 18, 1956	c171.05
May 11, 1954	c198.00	Dec. 8	c183.10	Apr. 30, 1957	c171.43
Nov. 16	c187.52	Apr. 5,1956	a168.50		

5/3-35N1 (BR-34). J. Cotner. Depth unknown. Altitude is 2,984.0 feet. Records available: 1950,1953-57. Records from F except as indicated.

Nov. 8, 1950	147.7	Apr. 13, 1955	158.85	Nov. 9, 1956	a156.92
Nov. 9, 1953	158.66	Dec. 9	155.00	Dec. 18	157.45
May 12, 1954	158.60	Apr. 10, 1956	155.51	May 1, 1957	157.62
Nov. 16	158.20				

5/4-10M1 (U-61). Troxell and Munn. Depth 52.8 feet. Altitude is 2,767.6 feet. Records available: 1930-32, 1935, 1937-45, 1947-57. Records from F except as indicated.

Apr. 12, 1955	52.32	Dec. 18, 1956	44.30	Apr. 30, 1957	46.49
Dec. 8	dry	Apr. 4, 1957	a44.97		

a. Measurement by Geological Survey.
b. Record from U. S. Bureau of Reclamation.
c. Record from San Bernardino County Flood Control District.

5/4-11B1 (U-59). A. Pratt, formerly Lee Saul. Depth about 65 feet. Altitude is 2,788.3 feet. Records available: 1931-32, 1935-57. Records from Geological Survey Water-Supply Papers, except as indicated.

Date	Water level	Date	Water level	Date	Water level
Jan. 30, 1931	d53.80	Nov. 12, 1941	53.88	May 4, 1950	55.82
Feb. 14	53.20	May 6, 1942	54.54	Nov. 7	55.80
May 14	53.25	Nov. 19	54.57	May 4, 1951	55.67
July 28	53.50	May 13, 1943	54.24	Nov. 27	56.04
Nov. 12	53.30	Dec. 21	55.25	May 29, 1952	55.54
Mar. 22, 1932	52.69	Apr. 20, 1944	54.12	Nov. 25	56.0
June 15	52.62	Dec. 13	53.77	May 27, 1953	55.95
May 8, 1935	52.85	May 3, 1945	53.88	Nov. 9	58.00
Nov. 16, 1937	52.65	Nov. 20	53.89	May 11, 1954	62.40
June 7, 1938	53.80	Apr. 25, 1946	53.85	Nov. 16	60.40
Oct. 27	54.05	Jan. 6, 1947	53.8	Apr. 12, 1955	55.26
June 20, 1939	54.13	May 15	54.1	Apr. 5, 1956	a56.78
Nov. 24	54.00	Nov. 12	54.2	Dec. 18	c56.65
May 8, 1940	54.24	May 7, 1948	54.09	Apr. 5, 1957	a56.73
Nov. 20	54.28	Dec. 2	54.14	30	c58.14
June 17, 1941	53.80	Nov. 14, 1949	55.62	Nov. 5	a57.30

5/4-35A1 (U-68, CDE-47). Kalin Co., formerly A. Sorenson, Veder Ranch. Depth about 895 feet. Altitude 2,799.1 feet. Records available: 1917, 1930-31, 1945, 1948-57.

Apr. 12, 1917	Flowing[d]	Apr. 12, 1955	c2.00	Dec. 18, 1956	c6.08
May 15, 1931	Flowing[a]	Apr. 5, 1956	a7.32	Apr. 30, 1957	c10.90

5/4-36N1 (U-72, CDE-52). Kalin Co. Depth about 306 feet. Altitude is about 2,827 feet. Records available: 1917, 1930-32, 1934-45, 1947-50, 1953, 1955-57. Records from Geological Survey Water-Supply Papers except as indicated.

Apr. 12, 1917	4.0	May 17, 1934	6.7	May 12, 1943	2.49
Feb. 1, 1930	6.1	May 22, 1935	5.3	Jan. 7, 1944	3.90
Apr. 3	6.4	Nov. 29	6.5	Apr. 20	4.02
Jan. 28, 1931	8.2	Mar. 19, 1936	6.0	Dec. 14	4.02
Feb. 14	8.2	June 3	6.4	Apr. 26, 1945	4.31
Feb. 20	8.1	June 29, 1937	4.4	Jan. 6, 1947	c4.36
May 2	9.2	Dec. 3	4.3	Dec. 1, 1948	c10.15
Aug. 4	8.4	Oct. 27, 1938	3.5	Nov. 14, 1949	c 8.54
Oct. 8	8.3	June 8, 1939	3.7	Nov. 7, 1950	c12.66
Nov. 12	7.8	Nov. 25	3.9	Nov. 9, 1953	c19.04
Jan. 7, 1932	7.2	May 8, 1940	3.9	Dec. 9, 1955	c19.54
Feb. 24	5.0	Nov. 20	4.2	Apr. 5, 1956	a19.75
Apr. 29	5.8	June 10, 1941	2.6	Dec. 18	c19.37
Sept. 13	7.6	Nov. 12	2.7	Apr. 30, 1957	c23.76
May 24	5.1	May 7, 1942	3.5	Nov. 5	a21.15
Dec. 21	6.0	Nov. 2	4.0		

a. Measurement by Geological Survey.
c. Record from San Bernardino County Flood Control District.
d. Report from California Department of Engineering (1918).

5/5-4C1 (F6/5-33L1) McCoray. Depth is 150.3 feet. Altitude is about 2,940 feet. Records available: 1948-57. Records furnished: 1948-July 1, 1953, GS; July 1, 1953-57, F, except as indicated.

Date	Water level	Date	Water level	Date	Water level
May 4, 1948	120.5	Nov. 26, 1951	124.2	Apr. 11, 1955	125.95
Nov. 23	121.1	May 13, 1952	125.0	Dec. 5	126.00
May 25, 1949	121.1	Nov. 28	124.8	Apr. 3, 1956	125.93
Jan. 11, 1950	121.8	May 22, 1953	124.80	Dec. 17	126.40
May 8	121.9	Nov. 5	127.1	Apr. 9, 1957	a126.40
Nov. 16	122.6	May 10, 1954	124.80	Apr. 29	126.47
May 15, 1951	123.33	Nov. 15	125.94	Nov. 6	a126.88

5/5-22E1 (F-22N1, CDE-185). J. Harris. Depth is about 340 feet. Altitude is 3,121.0 feet. Records available: 1918, 1947-57. Records furnished: 1918-52, GS; 1953-57, F, except as indicated.

1918?	d297.5	May 15, 1951	301.83	Dec. 5, 1955	312.24
Nov. 3, 1947	299.8	Nov. 26	302.8	Apr. 3, 1956	309.30
May 5, 1948	299.7	May 13, 1952	302.8	Dec. 17	303.65
Nov. 23	300.9	Nov. 28	296.9	Feb. 19, 1957	a313.25
May 2, 1949	301.6	Nov. 5, 1953	298.55	Apr. 29, 1957	c305.33
Jan. 11, 1950	303.4	May 10, 1954	307.0	Nov. 6	a312.54
May 8	301.1	Apr. 11, 1955	303.75		

6/2-34M1 (F-33X1). Oldenberg. Depth 344.0 feet. Altitude is about 3,240 feet. Records available: 1954-57. Records furnished by F, except as indicated.

Nov. 16, 1954	212.65	Dec. 8, 1955	195.00	Jan. 17, 1957	a177.19
Apr. 12, 1955	209.20	Apr. 5, 1956	184.60	Apr. 30	177.59
Dec. 8	195.00	Dec. 18	176.65		

6/3-9D1. Sarah A. Guess. Depth is about 70 feet. Altitude is about 3,115 feet. Records available: 1953, 1955-57. Records furnished by F, except as indicated.

Feb. 17, 1953	a52.00	Apr. 13, 1955	46.75	Feb. 20, 1957	a41.65
Mar. 17	a54.44	Dec. 9	40.77	May 1	40.83
Apr. 14	a54.05	Apr. 10, 1956	40.62		
Nov. 10	42.20	Dec. 20	40.92		

6/3-9D2. Hattie E. Woods. Depth is about 70 feet. Altitude is about 3,090 feet. Records available: 1953-57. Records furnished by F, except as indicated.

Feb. 17, 1953	a37.50	Nov. 17, 1954	38.85	Dec. 20 1956	39.00
Mar. 18	a38.78	Apr. 13, 1955	38.64	Feb. 21, 1957	a38.91
Nov. 10	39.55	Dec. 9	38.95		
May 12, 1954	39.10	Apr. 10, 1956	38.81		

a. Measurement by Geological Survey.
c. Record from San Bernardino County Flood Control District.
d. Record from California Department of Engineering (1918).

6/3-9E2 (F-9E1). Samuel C. Guess. Depth 49.6 feet. Altitude is about 3,095 feet. Records available: 1953-57. Records furnished by F, except as indicated.

Date	Water level	Date	Water level	Date	Water level
Feb. 17, 1953	a42.15	May 12, 1954	53.00	Apr. 10, 1956	51.60
Mar. 17	a40.65	Nov. 17	52.55	Dec. 20	51.67
Apr. 17	a40.65	Apr. 13, 1955	67.41	Feb. 21, 1957	a40.86
Nov. 10	51.80	Dec. 9	52.28	May 1	51.52

6/3-9E4 (F-9E1, BR-28, DGT-338). C. D. Bazile, formerly J. P. Whitby. Depth about 48 feet. Altitude is about 3,085 feet. Records available: 1918, 1950, 1953-57.

Oct. 27, 1950	b30.6	Nov. 10, 1953	c31.20	Apr. 10, 1956	c30.10
Feb. 17, 1953	a30.06	Nov. 17, 1954	c30.18	Dec. 20	c31.05
Mar. 17	a30.66	Apr. 13, 1955	c30.01	Feb. 27, 1957	a30.36
Apr. 14	a30.76	Dec. 9	c30.61	May 1	c30.48

6/3-17B1 (DGT-340). Melba Armstrong. Depth 87.1 feet. Altitude is about 3,050 feet. Records available: 1917, 1953-57.

Nov. 10, 1953	c71.20	Apr. 13, 1955	c72.69	Dec. 20, 1956	c71.60
May 12, 1954	c74.10	Dec. 9	c72.20	Mar. 1, 1957	a71.11
Nov. 17	c73.38	Apr. 10, 1956	c71.60	May 1	c70.96

6/3-28R1 (BR-30, CDE-146). Irene McCarthy, formerly Byron Buneman. Depth about 172 feet. Altitude is about 2,970 feet. Records available: 1917, 1946, 1948-54, 1956-57. Measurements by GS, except as indicated.

Apr. 25, 1946	125.35	May 5, 1950	126.80	Nov. 16, 1954	c135.00
Jan. 14, 1948	125.60	Nov. 7	b127.25	Apr. 5, 1956	137.90
May 13	125.70	Nov. 27, 1951	128.39	Dec. 18	c140.45
Nov. 19	125.81	Dec. 4, 1952	130.47	Apr. 30, 1957	c141.74
May 11, 1949	126.00	May 23, 1953	131.37	May 15	142.04
Nov. 15	126.39	27	131.37	Nov. 5	145.38

6/6-14P1 (CDE-292). M. Rothenberg. Depth unknown. Altitude is 2,833.0 feet. Records available: 1918, 1947-57. Measurements by GS, except as indicated.

Nov. 13, 1947	43.2	Nov. 27, 1951	48.0	Apr. 11, 1955	c44.58
Nov. 23, 1948	44.34	May 13, 1952	46.8	Apr. 3, 1956	c44.40
May 25, 1949	46.0	Nov. 28	44.15	Jan. 16, 1957	44.42
Jan. 15, 1950	48.0	May 22, 1953	45.30	Apr. 29	c44.30
May 8	45.70	May 10, 1954	c45.90		
May 15, 1951	45.59	Nov. 15	c45.70		

a. Measurement by Geological Survey.
b. Record from Bureau of Reclamation.
c. Record from San Bernardino County Flood Control District.

6/6-14R1 (CDE-31S). Owner unknown. Depth 48.1 feet. Altitude is about 2,62[illegible] feet. Records available: 1917, 1947-57. Measurements by GS except as indicated.

Date	Water level	Date	Water level	Date	Water level
1917	d40.0	Nov. 16, 1950	41.5	Nov. 15, 1954	c41.50
Oct. 23, 1947	41.3	May 15, 1951	41.35	Apr. 11, 1955	c41.48
May 5, 1948	41.3	27	41.4	Dec. 5	c41.20
Nov. 23	41.3	May 13, 1952	41.4	Apr. 3, 1956	c41.44
May 25, 1949	41.3	Nov. 28	41.10	Dec. 17	c41.04
Jan. 11, 1950	41.6	May 22, 1953	41.38	Feb. 19, 1957	41.28
May 8	41.4	May 10, 1954	c41.50	Apr. 29	c41.00
				Nov. 6	41.43

6/6-18Q2 (F-18P1). Owner unknown. Depth 72.6 feet. Altitude is about 2,895 feet. Records available: 1947-57. Measurements by GS except as indicated.

Nov. 4, 1947	51.8	May 15, 1951	49.8	Nov. 15, 1954	c50.10
May 5, 1948	49.9	Nov. 27	49.8	Apr. 11, 1955	c50.00
Nov. 23	49.7	May 13, 1952	50.2	Dec. 5	c50.00
May 26, 1949	49.64	Nov. 28	49.85	Apr. 3, 1956	c50.13
Jan. 11, 1950	49.6	May 22, 1953	50.30	Nov. 26	50.08
May 8	49.7	Nov. 5	c49.90	Dec. 17	c50.27
Nov. 16	49.5	May 10, 1954	c50.40	Apr. 29, 1957	c50.40

6/6-21A1. Owner unknown. Depth unknown. Altitude is about 2,860 feet. Records available: 1947-51, 1955-57. Measurements by GS except as indicated.

Nov. 4, 1947	59.6	May 8, 1950	64.5	Apr. 3, 1956	c60.44
May 5, 1948	55.1	May 15, 1951	63.7	Dec. 17	c60.19
Nov. 23	59.6	Nov. 27	63.3	Apr. 29, 1957	c61.10
May 26, 1949	62.3	Nov. 11, 1955	c64.9		
Jan. 11, 1950	63.4	Dec. 8	c65.5		

6/6-24H1 (F-24A1). Mrs. M. Powell, formerly Johnson. Depth about 85 feet. Altitude is about 2,830 feet. Records available: 1947-56. Measurements by GS except as indicated.

Nov 3, 1947	68.3	May 13, 1952	78.8	Apr. 11, 1955	c71.20
May 5, 1948	68.8	Nov. 28	73.65	Dec. 5	c68.60
May 26, 1949	68.3	May 22, 1953	68.40	Apr. 3, 1956	70.23
Jan. 11, 1950	69.9	Nov. 5	c79.5	Dec. 17	c71.10
May 15, 1951	69.2	May 10, 1954	c76.60		
Nov. 27	69.8	Nov. 15	c75.60		

c. Record from San Bernardino County Flood Control District.
d. Record from California Department of Engineering (1918).

6/6-26F1 (F-26E1, CDE-227). J. H. Webster, formerly J. N. Walker. Depth about 115 feet. Altitude is 2,946.3 feet. Records available: 1917, 1947-49, 1954, 1956. Measurements by GS except as indicated.

Date	Water level	Date	Water level	Date	Water level
1917	d102.0	May 5, 1948	98.4	Apr. 10, 1954	ce120.5
Nov. 14, 1947	98.4	May 26, 1949	98.7	Nov. 7, 1956	98.36

6/6-28H1 (CDE-228). L. M. Cotton. Depth about 150 feet. Altitude is 2,948.9 feet. Records available: 1918, 1952-57. Records furnished by F.

May	14, 1952	102.2	Nov.	15, 1954	102.50	Apr.	3, 1956	101.45
Nov.	28	104.75	Apr.	11, 1955	102.20	Dec.	17	102.30
Nov.	5, 1953	102.60	Dec.	5	102.10	Apr.	29, 1957	102.20

6/6-32K1 (F-32P1, CDE-226). F. Reink. Depth about 226 feet. Altitude is 3,047.8 feet. Records available: 1918, 1947, 1949-57. Measurements by GS except as indicated.

Feb.	20, 1918	d131.0	Nov.	27, 1951	156.7	Dec.	5, 1955	c167.10
Nov.	14, 1947	157.8	May	14, 1952	157.9	Apr.	3, 1956	c158.00
	23	158.1	Nov.	29	159.75	Nov.	7	156.82
May	26, 1949	158.9	May	22, 1953	157.30	Dec.	17	c158.40
Jan.	11, 1950	165.3	Nov.	5	c163.35			
May	8	158.0	May	10, 1954	c166.40	Apr.	29, 1957	c164.20
Nov.	16	156.9	Nov.	15	c161.35	Nov.	6	157.60
May	15, 1951	156.4	Apr.	11, 1955	c161.25			

6/7-12N1 (CDE-300). Owner unknown. Depth 23.6 feet. Altitude is 2,867.0 feet. Records available: 1918, 1947-50, 1952-57. Measurements by GS except as indicated.

Feb.	21, 1918	d21.0	Nov.	16, 1950	21.6	Apr.	11, 1955	c20.00
Nov.	4, 1947	21.4	May	14, 1952	21.3	Dec.	5	c19.56
May	5, 1948	21.2	Nov.	28	24.53	Apr.	3, 1956	c19.57
Nov.	23	21.4	May	22, 1953	21.30	Aug.	29	20.33
May	26, 1949	21.0	Nov.	5	c21.10	Dec.	17	c21.14
Jan.	11, 1950	21.4	May	10, 1954	c20.25	Apr.	29, 1957	c20.98
May	8	21.5	Nov.	15	c19.70	Nov.	6	20.23

6/7-14Q1 (F-14R1). C. V. Pual. Depth is about 440 feet. Altitude is about 2,900 feet. Records available: 1950-57. Measurements by GS from 1950 until May 22, 1953, and by F from November 5, 1953, through 1957.

Nov.	16, 1950	63.5	May	22, 1953	54.00	Apr.	3, 1956	65.59
May	15, 1951	56.4	Nov.	5	65.50	Dec.	17	56.25
Nov.	27	55.0	Nov.	15, 1954	59.80	Apr.	29, 1957	67.35
May	1 1952	55.3	Apr.	11, 1955	64.60			
Nov.	29	59.15	Dec.	5	59.94			

c. Record from San Bernardino County Flood Control District.
d. Record from California Department of Engineering (1918).
e. Pumping.

6/7-2.N1 (CDE-218). J. C[illegible]mpbell. Depth is 126.9 feet. Altitude is about 3,010 feet. Records available: 1917, 1928, 1947-57. Measurements by GS except as indicated.

Date	Water level	Date	Water level	Date	Water level
Nov. 4, 1947	128.9	May 15, 1951	126.62	Apr. 11, 1955	c118.2
May 5, 1948	127.8	Nov. 27	127.7	Dec. 5	c118.0
Nov. 23	125.4	Nov. 28, 1952	126.85	Apr. 3, 1956	c120.2
May 26, 1949	129.2	Nov. 5, 1953	c127.90	Nov. 7	126.6
Jan. 11, 1950	126.0	Apr. 10, 1954	c131.61	Dec. 17	c118.4
May 8	126.7	Nov. 15	c119.10	Apr. 29, 1957	c118.2

6/7-26R1. H. L. Notterman. Depth unknown. Altitude is about 3,005 feet. Records available: 1950-57. Measurements by GS except as indicated.

Date	Water level	Date	Water level	Date	Water level
Jan. 11, 1950	95.3	Nov. 28, 1952	105.8	Dec. 5, 1955	c105.8
May 8	97.7	May 22, 1953	105.7	Apr. 3, 1956	c105.9
Nov. 16	94.6	Nov. 5	c106.0	Nov. 7	106.0
May 15, 1951	96.0	May 10, 1954	c105.9	Dec. 17	c106.1
Nov. 27	96.7	Nov. 15	c105.1	Apr. 29, 1957	c105.9
May 14, 1952	106.0	Apr. 11, 1955	c106.00		

6/7-27N1 (CDE-217). H. M. Engebritson. Depth is about 150 feet. Altitude is about 3,020 feet. Records available: 1918, 1947-57. Measurements through May 22, 1953, and November 7, 1956, by GS; from November 5, 1953, through 1957 by F.

Date	Water level	Date	Water level	Date	Water level
Nov. 4, 1947	134.5	May 15, 1951	134.6	Nov. 15, 1954	131.0
May 5, 1948	134.3	Nov. 27	134.8	Apr. 11, 1955	135.3
Nov. 23	134.6	May 14, 1952	135.9	Dec. 5	135.3
May 26, 1949	134.7	Nov. 28	134.8	Apr. 3, 1956	135.2
Jan. 11, 1950	134.2	May 27, 1953	134.9	Nov. 7	134.9
May 8	134.4	Nov. 5	135.6	Dec. 17	136.7
Nov. 16	134.3	Apr. 10, 1954	133.4	Apr. 29, 1957	135.1

c. Record from San Bernardino County Flood Control District.

Table 6.- Drillers' logs of water wells

Note: The term kaolin (also spelled koalin, kaoline, kalein, kalene, etc.) is used by some drillers in the Upper Mojave Valley area to describe a hard white calcareous clay commonly containing small solution channels that cause the material to be moderately water bearing.

3/3-6C2. Herbert Steel. Altitude about 2,940 feet. Drilled by F. D. McDougall in 1950. 8-inch casing, perforated 57 to 83 feet.

Material	Thickness (feet)	Depth (feet)
Brown sandy soil	3	3
Brown gravely clay	14	17
Hard brown clay with rocks	4	21
Light sandy clay	7	28
Hard clay with boulders	3	31
Dry sand and small gravel	26	57
Fine water sand bearing some water	3	60
Coarse water sand and small gravel	4	64
Light sandy clay	7	71
Coarse water sand and gravel	14	85

3/3-6L1. R. Puppe. Altitude about 2,995 feet. Drilled by J. S. Gobar in 1953. 10-inch casing, perforated from 95 to 140 feet. Reported yield about 225 gpm with a 15-foot drawdown.

Decomposed granite and rocks	40	40
Large boulders	4	44
Decomposed granite and rocks	46	90
Very good water gravel (from pea gravel to 4-inch diameter)	60	150

3/4-1C3. N. Platt, formerly W. M. Angel. Altitude about 2,950 feet. Drilled by J. S. Gobar in 1923. 10-inch casing, not perforated.

Boulders and decomposed granite	20	20
Clay with some sand	27	47
River sand	16	63
Clay	4	67
Gravel	1	68

4/7-19C1. Arthur Rolapp. Altitude about 2,990 feet. Drilled by J. S. Gobar in 1948. 8-inch casing, perforated from 74 to 144 feet.

Material	Thickness (feet)	Depth (feet)
Top soil	2	2
Kaolin	20	22
Rocks	2	24
Hard cemented decomposed granite	12	36
Kaolin	8	44
Cement	8	52
Rocks	14	66
Cement, water bearing	11	77
Kaolin	8	85
Cemented rocks, water bearing	33	118
Kaolin	8	126
Cemented gravel	6	132
Red clay	6	138
Gray clay	6	144
Cement	1	145
Clay	43	188
Cement	4	192
Clay	11	203

4/1-20R1. Opal M. Curry. Altitude about 3,185 feet. Drilled by F. D. McDougall in 1955. 8-inch casing, perforated from 236 to 296 feet.

Sandy loam	4	4
Loose sand and gravel, some rock	14	18
Rocky brown clay	3	21
Boulders and small rocks	3	24
Light brown clay with rocks and gravel	16	40
Boulders, clay and small rock	48	88
Small rock and hard brown clay	14	102
Boulders	2	104
Small rock, coarse sandy clay	33	137
Boulders and sandy clay	61	198
Large rock and boulders	9	207
Large boulders	7	214
Rocky brown sandy clay	46	260
Fine water-bearing sand	3	263
Rocky brown clay	20	283
Broken rock, gravel and sand	22	305

4/2-3Q1. C. H. Barnard. Altitude about 3,035 feet. Drilled by C. Steele in 1952. 10-inch casing, perforated from 168 to 220 feet.

Material	Thickness (feet)	Depth (feet)
Top soil	12	12
Coarse sand and gravel	30	42
Fine sand	9	51
Brown, hard, packed, clay; carrying sand and gravel	21	72
Loose gray clay and fine sand	10	82
Hard, packed, red clay; carrying sand and gravel	8	90
Hard packed gray clay	2	92
Cemented sand and gravel	10	102
Gray clay, sand, and gravel	14	116
Cemented ledge	3	119
Gray clay carrying kaolin, gravel and sand	9	128
Gray clay, soft and sticky	20	148
Brown clay, soft	6	154
Very hard brown clay	16	170
Brown sandstone, some clay	2	172
Water-bearing sand and gravel	14	186
Very hard ledge of clay	4	190
Water-bearing coarse gravel, some sand	26	216
Crushed rock	6	222

4/2-4Q1. Bernice and A. Mendel, Jr. Altitude about 3,080 feet. Drilled by Scoggin Drilling Co. in 1953. 16-inch casing, perforated from 300 to 500 feet. Reported yield about 720 gpm with a 310-foot drawdown.

Sand and gravel	12	12
Shale	8	20
Caliche	10	30
Sand and gravel	15	45
Shale	10	55
Loose gravel	45	100
Shale	20	120
Gravel and sand	15	135
Swelling shale	105	240
Gravel	10	250
Swelling? shale	20	270
Gravel and water	45	315
Swelling? shale	25	240
Gravel	65	405
Swelling? shale	25	430
Gravel	70	500
Swelling? shale	5	505

4/2-5H1. Paul D. Martin. Altitude about 3,050 feet. Drilled in 1948. 10-inch casing, 0-255 feet, perforated interval unknown, 78 feet of perforated casing.

Material	Thickness (feet)	Depth (feet)
Decomposed granite, hard	12	12
Gravel	15	27
Loose caving decomposed gravel	15	42
Decomposed gravel	30	72
Hard decomposed gravel	20	92
Sandy clay	18	110
Hard cement	6	116
Decomposed gravel	26	142
Clay, gray	14	156
Sandstone	4	160
Clay with kaolin	28	188
Good water	17	205
Clay, gray	22	227
Sandy clay	13	240
Cement	5	245
Sand, dirty	10	255

4/2-9E1. C. S. Parker. Altitude about 3,110 feet. Drilled by F. D. McDougall in 1948. 12-inch casing, perforated from 270-300 feet.

Coarse sandy clay	33	33
No entry	3	36
Coarse sandy clay	12	48
Coarse dry sand	9	57
Coarse sandy clay	7	64
Clay	3	67
Coarse sandy clay	25	92
Hard clay	8	100
Light sandy clay and decomposed granite	38	138
Coarse sandy clay carrying a little water	4	142
Light sandy clay and decomposed granite, sand is coarse	28	170
Hard clay	8	178
Sandy clay	16	194
Hard clay	5	199
Sandy clay	7	206
Hard clay	12	218
Sandy clay	8	226
Silt (little water)	40	266
Sand (coarse), water	38	304
Light clay	6	310

4/2-13A1. Francis Hill, formerly F. Thompson. Altitude about 2,980 feet. Originally drilled by C. Steele to 138 feet in about 1945. Reportedly deepened to 225 feet at a later date. 12-inch casing.

Material	Thickness (feet)	Depth (feet)
Soil formation	64	64
Blue clay	4	68
Water gravel	18	86
Blue clay	3	89
Water gravel	2½	91½
Adobe and clay	40½	132
Hard kaliene	3	135
Adobe clay	3	138
Blue clay	87	225

4/2-20D1. J. A. Miller. Altitude about 3,340 feet. Drilled by C. C. Lackyard in 1948. 6-inch casing, perforated from 135 to 180 feet.

Wash gravel, same as surface	49	49
Brown clay	9	58
Wash gravel	47	105
Cemented conglomerate	41	146
Heavy wash gravel and boulder	19	165
Sandy clay	27	192
Rocks and gravel	2	194
Rock (boulder)	10	204
Cemented conglomerate	10	214
Water in rock formation	21	235

4/3-2B2. Ralph Beasley. Altitude is 2,995.6 feet. Existing well deepened by David Engel in 1956. 8-inch casing, perforated from 179 to 248 feet.

No entry	160	160
Sand, water bearing	30	190
Clay	20	210
Sand, water bearing	38	248
Clay	1	249

4/2-4-2. Morgan Ranch. Drilled by Albert Crooks.

Material	Thickness (feet)	Depth (feet)
Alluvium, decomposed granite, quicksand with streaks of yellow	160	160
Arkosic water sand of medium grain size	13	173
Water sand and gravel, compact	9	182
Compact sand with streaks of yellow	31	213
Hard sand shell	9	222
Compact arkosic sand with streaks of yellow clay	8	230
Compact sand and interbedded clay	95	325
Sandy clay and gravel	27	352
Water sand	28	380
Sandy clay, streak of water	28	408
Water-bearing sand	4	412
Gravel and sand	6	418
Gray sand and clay, sticky	9	427
Sand, caving	13	440
Gray clay, sandy	16	456
Green streaks of clay, hard sand	29	485
Sandy clay, water, gravel	18	503
Yellow clay	22	525
Compact sand and gravel	23	548
Loose sand and gravel	12	560
Clay and sand, streaks of shale	34	594
Sand, caving	16	610
Sand and clay	15	625
Shale, gray streaks of sand	265	890
Hard lime shale	150	1,040
Shale with streaks of sand	75	1,115
Lime and sand streaks	57	1,172
Brown shale streaks and lime	28	1,200
Hard lenses of lime, clay and sand	18	1,218
Hard sand	18	1,236
Gray shale and hard streaks	32	1,268
Sand, hard streaks	9	1,277

4/3-5A2. Effie D. Sanden. Altitude about 3,000 feet. Drilled by J. S. Gobar in 1953. 10-inch casing, perforated from 238 to 268 feet.

Top soil, sandy	1	1
Hard pan	4	5
Cemented gravel	17	22
Caving sand	6	28
Yellow sandy clay	12	40
Brown sandy clay	140	180
Cemented sand	4	184
Quicksand	20	204
Pea-size gravel to sand	18	222
Sandy clay	16	238
Coarse gravel, some egg size	30	268
Sandy clay	32	300

4/3-5A3. C. C. Koon. Altitude about 3,000 feet. Drilled by J. S. Gobar in 1953. 10-inch casing, perforated 210 to 225 feet and 232 to 252 feet. Reported yield about 351 gpm with a 32-foot drawdown.

Material	Thickness (feet)	Depth (feet)
Hardpan	2	2
Kaolin	1	3
Sand	5	8
Hardpan	4	12
Sandy clay	23	35
Blow sand	25	60
Cement	4	64
Decomposed granite and clay	16	80
Sandy clay	36	116
Sand	8	124
Decomposed granite	12	136
Sandy clay	34	170
Cement	4	174
Sandstone	9	183
Water gravel, some pea size, mostly sand	41	224
Decomposed granite	8	232
Gravel, pea size, some walnut size	20	252
Sandy clay	38	290
Decomposed granite	4	294
Packed sand	4	298
Decomposed granite	2	300

4/3-5D2. Florence Hopper. Altitude about 2,960 feet. Drilled by David Engel in 1956. 8-inch casing, perforated from 150 to 190 feet.

Sand clay	48	48
Sand hard	4	52
Sandy clay	6	58
Sand	11	69
Gravel	9	78
Clay	19	97
Clay sand	64	161
Sand, water	11	172
Clay	2	174
Sand, water	16	190
Clay	1	191

4/3-5D5. Westley Thilake. Altitude about 2,920 feet. Drilled by D. Engel in 1956. 8-inch casing, perforated 114? to 169 feet.

Material	Thickness (feet)	Depth (feet)
Sandy clay	8	8
Sand	2	10
Sand and clay	6	16
Sand	11	27
Sand and clay	68	95
Sand and gravel	16	111
Sand, water	10	121
Clay	1	122
Sand, water	14	136
Clay	16	152
Gravel, water	16	168
Clay	1	169

4/3-5Q2. Robert Pollard. Altitude about 3,005 feet. Drilled by David Engel in 1956. 8-inch casing, perforated from 188 to 228 feet.

Sandy gravel	59	59
Sandy clay	130	189
Sand, water	10	199
Clay	2	201
Sand, water	6	207
Clay	2	209
Sand, water	19	228
Clay	1	229

4/3-5Q3. Robert McCling. Altitude about 2,985 feet. Drilled by David Engel in 1955. 8-inch casing, perforated from 48 to 210 feet.

Sand	4	4
Clay	6	10
Sand	54	64
Clay	3	67
Sand	73	140
Hard sand	10	150
Sand	18	168
Clay	4	172
Sand, water	26	198
Clay	1	199
Sand	11	210
Clay	1	211

4/3-6A1. New Way Laundry, formerly A. J. Lintner. Altitude 2,871.91 feet. Drilled by J. S. Gobar in 1922, deepened in 1954. Was 6-inch casing, now 12-inch, perforated from 75 to 99 feet.

Material	Thickness (feet)	Depth (feet)
Sand	2	2
Hardpan	18	20
Sand	20	40
Quicksand	8	48
Sand	18	66
Clay with gravel and quicksand	12	78
Sand	12	90
Boulders	5	95
Gravel	4	99

4/3-6D2. W. J. Smithson. Altitude about 2,870 feet. Drilled by F. D. McDougall in 1948. 8-inch casing, 0-100 feet, perforated interval unknown, 27 feet of perforated casing installed.

Surface material	4	4
Top soil	4	8
Hard dry sand	17	25
Coarse sandy clay	2	27
Red clay	37	64
Coarse sand and clay	3	67
Coarse sand and water gravel	31.5	98.5
Red clay	1.5	100

4/3-6H1. H. W. Fredenburg. Altitude about 2,880 feet. Drilled by David Engel in 1956. 8-inch casing, perforated from 59 to 99 feet.

Top soil	4	4
Hardpan	4	8
Sand	14	22
Hardpan	16	38
Sand	22	60
Clay	2	62
Sand	8	70
Clay	3	73
Sand, water	22	95
Clay	4	99

4/3-6J2. A. J. Crawford, formerly L. A. Sauers. Altitude about 2,900 feet. Drilled by L. F. McFadden in 1950. 9-inch casing. Yielded 50 gpm with 12-foot drawdown. Water temperature 62°F.

Material	Thickness (feet)	Depth (feet)
No entry	1	1
Top soil	6	7
No entry	2	9
Slag sand	26	35
Sand and clay	35	70
Hard clay	4	74
Water sand	16	90
Clay seal, sand	3	93
Water sand	17	110
Hard clay	4	114

4/3-6K2. George Tyler. Altitude about 2,880 feet. Drilled by L. F. McFadden in 1951. 8-inch casing. Yielded 40 gpm. Water temperature 63°F.

No entry	1	1
Top soil	6	7
Hard clay	2	9
Dry sand	5	14
Clay	36	50
Sand	12	62
Hard clay	3	65
Coarse water sand	23	88
Hard clay	3	91

4/3-6P2. Jess Ranch. Altitude about 2,860 feet. Drilled by F. D. McDougall in 1948. 12-inch casing, perforated from 40 to 80 feet and 108 to 130 feet.

Fine sandy soil	2	2
Brown sand and rocks	13	15
Fine gray sand	16	31
Large dry gravel	4	35
Coarse dry sand	7	42
Large gravel, coarse sand, bearing some water	4	46
Coarse sand	2	48
Large gravel, coarse sand	24	72
Coarse sandy clay	40	112
Sand and gravel	8	120
Sandy clay	38	158
Sand and gravel	8	166
Clay	32	198
Layers of gravel and clay	18	216

4/3-6P3. Jess Ranch, formerly Anna Soroboe. Altitude about 2,880 feet. Drilled by F. D. McDougall in 1951. 8-inch casing, perforated from 56 to 94 feet.

Material	Thickness (feet)	Depth (feet)
Top soil	2	2
Brown sandy clay	22	24
Dry gravel	2	26
Very fine sand	15	41
Brown sandy clay	2	43
Fine brown sand, bearing water	8	51
Coarse gray sand and gravel	2	53
Very fine sand	9	62
Coarse sand and gravel	2	64
Fine sand	5	69
Coarse sand and large gravel	27	96

4/3-6R1. S. A. Day. Altitude about 2,915 feet. Drilled by Oro Grande Farm Implement Co. in 1956. 8-inch casing.

Top soil	4	4
Sand and clay, cemented	12	16
Loose sand	44	60
Buff colored clay	4	64
Coarse gravel to 4 inches	12	76
Tan clay, compact	11	87
Coarse gravel to 10 inches	6	93
Tan clay	2	95
Loose sand	41	136
Soft sandy clay	2	138

4/3-6R2. B. O. Mosher. Altitude about 2,920 feet. Drilled by Edward and Harold Moss in 1949. 8-inch casing, perforated for 35 feet.

Top soil	4	4
Hardpan	11	15
Sandy shale	31	46
Soft running sand	27	73
Coarse water gravel	23	96

4/3-6R3. W. A. McVeigh. Altitude about 2,885 feet. Drilled by F. D. McDougall in 1948. 8-inch casing.

Top soil	5	5
Clay rib	2	7
Dead sand	64	71
Washed sand and gravel	13	84
Hard sand	1	85

4/3-6R4. David B. Lackey. Altitude about 2,890 feet. Drilled by Moss and French in 1948. 8-inch casing to 86 feet.

Material	Thickness (feet)	Depth (feet)
Top soil	6	6
Coarse sand with clay lenses grading to a thin stratum of fine gravel, carrying water	48	54
No entry	22	76
River sand and coarse rock	15	91

4/3-7K3. C. G. Lewis. Altitude about 2,870 feet. Drilled by F. D. McDougall in 1948. 14-inch casing, perforated from 40 to 70 feet, 104 to 112 feet, and 134 to 136 feet.

Fine dry sand	6	6
Coarse dry sand	30	36
Water sand	6	42
Light clay	3	45
Large rock, gravel	25	70
Sandy clay	35	105
Sand and gravel	5	110
Sandy clay	28	138
Sand and gravel	6	144
Sand and clay	8	152
Light clay	10	162

4/3-9E1. John M. Hull. Altitude about 3,025 feet. Drilled by Scoggin Drilling and Development Co. in 1952. 16-inch casing, perforated from 300 to 500 feet.

Soil and sand	15	15
Loose gravel	25	40
Sandy shale	30	70
Swelling? shale	110	180
Water gravel	25	205
Swelling? shale	60	265
Boulders and gravel	40	305
Swelling? shale and boulders	105	410
Gravel and shale	91	501

4/3-9Q1. A. Mendel. Altitude about 3,030 feet. Drilled by J. H. Scoggin in 1950. 16-inch casing, perforated from 278 to 494 feet.

Material	Thickness (feet)	Depth (feet)
Top soil	10	10
Gravel	15	25
Coarse gravel	38	63
Hard sand with boulders	37	100
Hard boulders in shale	28	128
Sandy shale	28	156
Hard sand	4	160
Boulders in shale	30	190
Hard shale	30	220
Boulders in shale	70	290
Water sand, fine	60	350
Water gravel	100	450
Water gravel with broken shale streaks	44	494

4/3-10B1. T. G. Cristilly. Altitude about 3,035 feet. Drilled by David Engel in 1956. 8-inch casing.

Sand	5	5
Caliche	6	11
Sand	10	21
Hardpan	14	35
Sandy gravel	15	50
Sandy clay	6	56
Sand	10	66
Caliche	4	70
Sand	10	80
Sandy clay	10	90
Clay - sand	65	155
Sand	15	170
Sandy clay	34	204
Water sand	18	222
Clay	2	224
Water sand	12	236
Clay	1	237

4/3-12D1. John Weibel. Altitude about 3,095 feet. Drilled by Howard H. Ley in 1951. 10-inch casing, perforated from 245 to 308 feet. Yielded 9 gpm with 19-foot drawdown. Water temperature 70°F.

Material	Thickness (feet)	Depth (feet)
Soil	3	3
Clean coarse sand	76	79
Tough yellow clay and coarse sandy streaks	37	116
Coarse sandy clay	48	164
Coarse sand and a small amount of clay	21	185
Tough yellow clay	25	210
Sandy clay and silt, formation soft and muddy	60	270
Fine sand and water	1	271
Yellow clay	8	279
Coarse sand, small amount water	1	280
Very fine silty clay	40	320
Open hole, sandy clay	15	335

4/3-17D1. L. Disney, formerly Margaret Demmert, formerly D. W. McPherson. Altitude 2,866.8 feet. Deepened by F. D. McDougall in 1950. 10-inch casing, perforated from 44 to 74½ feet.

Surface material	15	15
Large rocks and gravel	37	52
Coarse sand and gravel	19	71
Hard clay	5	76

4/3-17G1. Arthur E. Martinson. Altitude about 2,960 feet. Drilled by Ephraim Harris in 1943. 10-inch casing, perforated from 112 to 128 feet.

Soil	8	8
Soil, sand, and gravel	24	32
Quicksand	48	80
Sand and gravel	10	90
Sand and gravel, good	42	132
Sandy clay	3	135

4/3-18A1. Earl MacGillevary. Altitude about 2,875 feet. Drilled by David Engel in 1956. 8-inch casing, perforated from 48 to 99 feet.

Sand	30	30
Gravel	2	32
Sandy clay	2	34
Sand, water	39	73
Clay, sand	15	88
Gravel	7	95
Clay	6	101

4/3-18H2. C. Michael. Altitude about 2,860 feet. Drilled by F. D. McDougall in 1951. 11-inch casing.

Thickness	Thickness (feet)	Depth (feet)
Dry sand	32	32
Water-bearing coarse sand	9	41
Coarse sand and rocks	15	56
Clay with sandy clay lenses	7	63
Water sand	3	66
Sandy clay	3	69

4/3-18H6. Price V. Reeves. Altitude about 2,870 feet. Drilled by F. D. McDougall in 1950. 8-inch casing, perforated from 26 to 67 feet.

Silt	3.5	3.5
Dry sand	28.5	32
Coarse sand and rocks	10	42
Sandy clay	4	46
Coarse water sand and gravel	24	70
Sandy clay	1	71

4/3-18H8. B. Dunbar. Altitude about 2,870 feet. Drilled by David Engel in 1956. 8-inch casing, perforated from 31 to 71 feet.

Sand	36	36
No entry	3	39
Sand	2	41
Sand, water	27	68
Clay - sand	6	74

4/3-29N2. J. Wiens. Altitude about 2,920 feet. Drilled by F. D. McDougall in 1952. 10-inch casing, perforated from 54 to 75 feet and 80 to 97 feet.

Top soil	3	3
Coarse dry sand and small gravel	31	34
Large gravel and rocks	12	46
Coarse sandy clay and rock, bearing small amount of water	18	64
Fine sandy clay	6	70
Coarse sand and small gravel	5	75
Sandy clay	5	80
Water sand and gravel	22	102

4/3-30A1. F. J. Whicher. Altitude about 2,900 feet. Drilled by F. D. McDougall in 1948. 12-inch casing, perforated from 42 to 72 feet.

Surface material	37	37
Sand and gravel streaks	35	72

4/3-30A2. J. Howell. Altitude about 2,900 feet. Drilled by F. D. McDougall in 1948. 12-inch casing, perforated from 46 to 67 feet.

Material	Thickness (feet)	Depth (feet)
Sand	39	39
Sandy clay	7	46
Boulders and gravel	21	67
Sandy gravel	9	76

4/3-31L4. W. Hupfeld. Altitude about 2,910 feet. Drilled by F. D. McDougall in 1951. 12-inch casing.

Dry sand and gravel	38	38
Dry sand, gravel and rocks	10	48
Dry sand with clay ribs	4	52
Coarse water sand and gravel	5	57
Hard sandy clay	6	63
Coarse water sand and gravel	7	70
Clay	9	79
Sand and gravel	4	83
Clay	9	92
Sandy clay	20	112
Silt	6	118
Small rocks and sand	2	120
Clay	2	122
Sand	24	146
Light sandy clay	2	148

4/3-32C1. V. A. Johnson. Altitude about 3,040 feet. Drilled by David Engel in 1955. 8-inch casing, perforated from 200 to 242 feet.

Sand	4	4
Caliche	8	12
Sand	16	28
Boulders, caliche	40	68
Sand	50	118
Boulders	12	130
Caliche	5	135
Sand, clay and gravel	25	160
Hard sand	38	198
Water sand	44	242

4/3-32E1. K. M. Meahl. Altitude about 3,000 feet. Drilled by David Engel in 1955. 8-inch casing, perforated from 162 to 206 feet.

Material	Thickness (feet)	Depth (feet)
Sand clay	8	8
Sandy gravel	16	24
Boulders	4	28
Caving sand	30	58
Caliche	2	60
Sand	13	73
Boulders	6	79
Caving sand	15	94
Clay - sand	41	135
Boulders	5	140
Clay	22	162
Hard sand	10	172
Water sand	33	205

4/4-13B1. H. I. Pollard. Altitude about 2,850 feet. Drilled by Water Well Supply Co. in 1949. 14-inch casing, perforated from 100 to 270 feet.

Top soil	10	10
Fine sand and rock	60	70
Water sand and gravel	90	160
Clay and boulders	50	210
Water sand and gravel	45	255
Clay and boulders	15	270

4/4-13J1. H. I. Pollard. Altitude about 2,850 feet. Drilled by R. E. Roberts in 1936. 16-inch casing, perforated from 120 to 125 feet, and from 153 to 348 feet.

Sand	15	15
Clay	14	29
Gravel, fine	21	50
Clay	15	65
Gravel, fine	5	70
Clay	28	98
Gravel	15	113
Clay	7	120
Gravel, casing perforated	5	125
Clay	28	153
Gravel, casing perforated	17	170
Clay	5	175
Gravel, casing perforated	13	188
Clay	61	249
Gravel, casing perforated	99	348

4/4-21C1. Formerly Appleton Land, Water and Power Co. Altitude 3,200.0 feet. 8-inch casing. Log copied from California Department of Engineering (1918). Well destroyed.

Material	Thickness (feet)	Depth (feet)
Soil	26	26
Cemented gravel formation	368	394
Clay	11	405
Sand	6	411
Sandy clay	30	441
Water gravel	24	465
Clay	7	472
Water gravel	14	486
Clay with sand layers	267	753

4/4-24G1. Hesperia Water Co. Altitude about 2,960 feet. Drilled by J. M. Scoggin in 1947. 12- and 14-inch casing, perforated for 250 feet.

Top soil	10	10
Gravel	15	25
Boulders and rock	50	75
Gravel and rock	65	140
Water sand	210	350
Water sand and boulders	100	450

4/4-24N1. Hesperia Water Co., formerly Appleton Land, Water and Power Co. Altitude about 2,995 feet. Drilled by J. M. Scoggin in 1947. 12- and 14-inch casing, perforated for 250 feet.

Top soil	10	10
Gravel	30	40
Boulders and gravel	120	160
Solid rock	10	170
Water sand	70	240
Boulders and gravel	30	270
Water sand	50	320
Boulders and gravel	45	365
Rock	20	385
Water sand	65	450
Rock	2	452

4/4-25N1. Hesperia Water Co., formerly Appleton Land, Water and Power Co. Altitude about 3,040 feet. Drilled by J. H. Scoggin in 1947. 12- and 14-inch casing, perforated for 250 feet.

Material	Thickness (feet)	Depth (feet)
Top soil	10	10
Gravel bed	68	78
Gravel and boulders	62	140
Rock, solid	5	145
Rock, solid	7	152
Boulders and gravel	38	190
Water sand	50	240
Boulders	10	250
Gravel, hard and soft	20	270
Solid rock	10	280
Water sand	20	300
Boulder streaks, hard	40	340
Water sand	65	405
Water sand and gravel	111	516

4/4-29-1. Appleton Land, Water and Power Co. Altitude about 3,365 feet. Drilled by T. W., I. M., and R. H. Heath in 1924. Well destroyed.

Sand and gravel	220	220
Clay streaks, gravel	40	260
Hard sand and clay	105	365
Clay, sand, gravel, water	35	400
Hard sand, clay, gravel, water	390	790
Sand, clay	60	850
Sand and gravel	35	885
Lime, talc, clay, hard sand and gravel	223	1,108
Sandy shale	7	1,115
Hard sand, sticky shale, clay	230	1,345
Sand	5	1,350
Hard sand, sticky shale	275	1,625
Sand	35	1,660
Clay, hard sand, sandy shale, sticky clay and shale	260	1,920
Sharp sand, apparently water sand but no water	10	1,930
Clay, brown shale, hard sand, sticky shale, lime	130	2,060
Packed sand	15	2,075
Blue and brown shale, sticky shale, sandy clay	195	2,270
Sticky brown shale	75	2,345
Sand	10	2,355
Sticky clay, sand, shale	80	2,435
Sandy shale, hard sand	20	2,455

Continued

4/4-29-1.--Continued.

Material	Thickness (feet)	Depth (feet)
Sandy brown clay	20	2,475
Brown sandy clay, streaks blue sand, sticky shales	45	2,520
Sticky shale	28	2,548
Sandy shale	27	2,575
Sticky shale	35	2,610
Sandy shale, hard sand, sandy shale	135	2,745
Sand, gravel, shale, hard sand	70	2,815
Hard sand formation	126	2,941
Lime, belching	32	2,973
Hard sand	21	2,994
Lime stone (?)	86	3,080
Hard sand streaked with shale	23	3,103

4/4-35D1. Hesperia Water Co., formerly Appleton Land, Water and Power Co. Altitude about 3,175 feet. Drilled by J. M. Scoggin in 1946. 10- and 12-inch casing, perforated for 390 feet.

Top soil	10	10
Loose gravel	40	50
Hard lenses, cemented sand	10	60
Sand and gravel	70	130
Sand and boulders	30	160
Shale and boulders, hard	173	333
Hard shale and rock	45	378
Water sand	38	416
Boulders	14	430
Water sand, coarse gravel	30	460
Water sand, fine	8	468
Water sand with shale lenses	238	706

4/5-1K2. R. S. Ward. Altitude about 3,233 feet. Drilled by C. C. Lackyard in 1948. 6-inch casing, perforated from 412½ to 492½ feet.

Surface material	10	10
Decomposed granite	25	35
Layers of clay 1 to 2 feet thick interbedded with layers of wash gravel 3 to 6 feet thick	55	90
Fine sandy clay	289	379
Swelling clay	2	381
Water	4	385
Swelling clay	2	387
Water in fine sandy clay	19	406
Swelling clay	4	425
6-inch to 1-foot streaks of clay with 1- to 2-foot streaks of good aquifer in a heavy gravel and clay formation	90	515

4/5-3G1. Stephen Lockwood. Altitude about 3,310 feet. Drilled by F. D. McDougall in 1955. 10-inch casing, perforated from 553 to 434 feet. Yielded 14 gpm.

Material	Thickness (feet)	Depth (feet)
Top soil	18	18
Gravely brown sand	34	52
Lightbrown sandy clay	26	78
Rocky brown sand	37	115
Light brown sandy clay	20	135
Dark gray sandy clay	35	170
Brown sandy clay	68	238
Dark gray sandy clay	122	360
Brown sandy clay	35	395
Dark gray sandy clay	15	410
Sticky gray clay	24	434
Water in fine sand	10	444
Sticky brown clay	51	495
Water in fine sand	17	512
Sticky dark gray clay	26	538
Water gravel	15	553
Sticky brown clay	12	565

4/5-5R1. C. R. Hudson, formerly Rancho Verde. Altitude 3,390.0 feet. 12-inch casing. Copied from California Department of Engineering (1918).

Soil	13	13
Cemented gravel formation	37	50
Sand and clay	38	88
Sand and gravel	40	128
Cemented gravel	93	221
Clay and sand	56	277
Sand and gravel	43	320
Sand and clay	189	509
Fine sand and water	61	570
Clay	22	592
Fine sand	3	595
Clay	25	620
Sand	2	622
Clay	2	624
Sand	6	630
Clay	14	644

4/5-27J1. LeRoy Roler. Altitude about 3,665 feet. Drilled by R. Wilson. 8-inch casing.

Material	Thickness (feet)	Depth (feet)
Clay	190	190
Sand	14	204
Clay	12	216
Sand	12	228
Gravel, water bearing	4	232
Sand	29	261
Sand and clay	39	300
Clay	12	312
Sand	23	335
Clay	71	406
Rock	8	414
Clay	18	432
Clay and gravel	37	469
Very coarse gravel	9	478
Blue clay	25½	503½

4/5-28N1. Mrs. Bessire. Altitude about 3,685 feet. Drilled by Howard Ley in 1947. 10-inch casing. Well destroyed.

Clay	40	40
Sand	14	54
Clay	12	66
Sand	12	78
Gravel, water bearing	4	82
No entry	219	301

4/5-31K1. C. J. Willman. Altitude about 3,955 feet. Drilled by Cozart Drilling Co. in 1948. 6-inch casing.

Sandy clay	110	110
Coarse sand	30	140
Soft sand	5	145
Coarse sand	85	230
Sandstone	70	300

5/1-31J1. Z. V. McBride. Altitude about 3,000 feet. Drilled by J. S. Gobar in 1937 and deepened by F. D. McDougall. 9-inch casing.

Decomposed granite	87	87
Very hard rock	47	134

5/2-4A1. E. A. Payne. Altitude about 3,180 feet. Drilled by David Engel in 1957. 8-inch casing. Will continue drilling at a later date.

Material	Thickness (feet)	Depth (feet)
Sand and clay	40	40
Fine sand, dry	44	84
Boulders, 2-3 feet in diameter	22	106
Clay	3	109
Boulders, 2-3 feet in diameter	11	120
Clay	2	122
Boulders, 2-3 feet in diameter	15	137

5/2-6M1. M. S. West. Altitude about 3,120 feet. Drilled by L. F. McFadden in about 1954, later deepened. 9-inch casing.

Hard-packed sand	78	78
Rock	5	83
Hard sand	7	90
Clay	4	94
Rock	1	95
Clay	3	98
Hard sand	22	120
Decomposed granite	15	135
Sand clay	25	160
Decomposed granite	38	198
Hard sand	12	210
Sand clay	25	235
Clay and sand	24	259
Sand	1	260
Water and sand	32	292
Clay and sand	?	?

5/2-19M4. J. N. DeGuire. Altitude about 2,960 feet. Drilled by F. D. McDougall in 1948. 8-inch casing, perforated from 129 to 146 feet.

Coarse brown sand	7	7
Hard brown clay	3	10
Light sandy clay	17	27
Hard brown clay	4	31
Light sandy clay	56	87
Light clay, small rock	8	95
Light sandy clay	39	134
Fine sand bearing water	17	151

5/2-25A1. L. W. Luley. Altitude about 3,280 feet. Drilled by J. S. Gobar in 1950. Well dry, casing pulled.

Material	Thickness (feet)	Depth (feet)
Coarse decomposed granite soil	6	6
Decomposed granite soil	70	76
Decomposed granite soil with rocks	4	80
Decomposed granite soil	30	110
Decomposed granite soil with rocks	37	147
Decomposed granite soil with clay	37	184
Brown sandy clay	26	210
Yellow clay	13	223
Reddish-brown clay	4	227
Granite rocks (boulders)	10	237
Brown clay	4	241
Granite rocks (boulders)	19	260

5/2-31M1. M. Faust. Altitude about 2,975 feet. Drilled by C. Steele in 1951. 10-inch casing, perforated from 152 to 200 feet.

Top soil	5	5
Hardpan	4	9
Soft soil	17	26
Hard-packed clay, sand and gravel	28	54
Sticky gray clay, sand and gravel	42	96
Sticky gray-green clay	12	108
Solid packed reddish-brown sand	41	149
Coarse sand and crushed rock, water bearing	2	151
Blue granite rock	15	166
Crushed rock, no water	8	174
Granite rock, sand and rock, water bearing	59	233
Coarse sand and crushed rock, water bearing	2	235

A 5/2-32K1. R. Mefferd. Altitude about 3,020 feet. Drilled by Myers Drilling Service in 1948. 16-inch casing, perforated from 210-350 feet. 6-inch test hole 625 feet deep, reamed to 16 inches to 350 feet. Yielded 600 gpm, drawdown 65 feet.

Clay	25	25
Sand (coarse)	25	50
Clay	15	65
Hard brown shale	43	108
Sand	22	130
Sand and streaks of clay	50	180
Sand, very little clay	160	340
Sandy clay	100	440
Hard sand and clay	70	510
Very hard formation	70	580
Hard shale with streaks of shell	17	597
Decomposed granite (very hard at the bottom)	28	625

5/3-3Q1. Antonio Bioletto. Altitude about 2,917 feet. Drilled by Paul Waas in 1949. 8-inch casing, perforated from 80 to 100 feet.

Material	Thickness (feet)	Depth (feet)
Surface soil	6	6
Decomposed granite soil, sandy	22	28
Clay, with lenses of red sand	28	56
Yellow clay	12	68
Clay with lenses of sand and gravel	4	72
Water-bearing gravel	1	73
Very compact clay	8	81
Water-bearing clean gravel and sand with lenses of clay 4-12 inches thick	15	96
Compact clay	11	107

5/3-9D1. J. Mrzena, formerly A. L. Domike. Altitude about 2,920 feet. Drilled by Howard H. Ley in 1951. 10-inch casing, perforated from 86 to 100 feet and 147 to 154 feet.

Soil and caliche	87	87
Coarse sand, water	7	94
Sandy clay	21	115
Blue clay	8	123
Dark gray and brown clay	8	131
Tough yellow clay	19	150
Blue clay	5	155
Coarse sand	3	158
Dark brown clay	5	163
Blue clay	2	165
Yellow clay	6	171
Caliche, white clay	5	176
Gray clay, sand, a few pebbles, no water	11	187
Gravely clay, small sharp rock	11	198
Cemented sand and boulders	5	203

5/3-10P1. J. B. Brooks. Altitude about 2,905 feet. Drilled by J. B. Brooks in 1957. 9-inch casing, perforated from 71 to 171 feet.

Dry sand and clay	80	80
Coarse sand and gravel	70	150
Blue clay	1	151
Medium grain-sized gravel	20	171

5/3-10P2. A. Jost. Altitude about 2,903 feet. Drilled by J. B. Brooks in 1956. 8-inch casing, perforated from 110 to 150 feet.

Material	Thickness (feet)	Depth (feet)
Dry clay and sand	90	90
Fine gravel	20	110
Sandy clay, water	20	130
Layers of clay and sand	20	150

5/3-10P3. D. Kiley. Altitude about 2,905 feet. Drilled by J. B. Brooks in 1956. 9-inch casing, perforated for 52 feet. Yielded 25 gpm with 1-foot drawdown.

Sand and clay	15	15
Coarse sand	10	25
White clay	15	40
Medium grain-sized sand	60	100
Medium grain-sized gravel	50	150
Blue clay	2	152

5/3-12H2. F. Mitchell. Altitude about 2,973 feet. Drilled by David Engel in 1953. 8-inch casing, perforated from 125 to 169 feet.

Top soil	7	7
Clay sand	30	37
Shale	4	41
Clay	4	45
Shale	3	48
Clay	30	78
Sand	34	112
Shale	13	125
Water sand	8	133
Clay	5	138
Sand	3	141
Decomposed granite	6	147
Hard sand	13	160
Water sand	10	170
Clay	2	172

5/3-22A1. B. Herrer, formerly C. Marshal. Altitude 2,923.6 feet. Drilled by Ephriam Harris in 1946. 12-inch casing, perforated 89-98, 131-140, 161-163, 175-176, 198-202, 203-204, 208-209 and 241-246 feet.

Material	Thickness (feet)	Depth (feet)
Soil and clay	89	89
Sand and gravel to 1 inch	9	98
Clay and silt	33	131
Sand and gravel to 1 inch	9	140
Fine sand and dirt	5	145
Clay and silt	16	161
Coarse sand and gravel to 3/4 inch	2	163
Clay and silt	12	175
Coarse sand and gravel to 3/8 inch	1	176
Clay and silt	22	198
Coarse sand and gravel to 1/2 inch	4	202
Clay	1	203
Good coarse sand and gravel to 1/2 inch	1	204
Clay	4	208
Coarse sand and gravel to 1/2 inch	1	209
Clay	11	220
Fine sand	2	222
Clay	19	241
Coarse sand and gravel to 3/8 inch	5	246
Clay	7	253
Hard shale	7	260
Blue clay	7	267

5/3-23H2. T. V. Smith, formerly P. Rulon. Altitude about 2,925 feet. Drilled by L. O. Cozart in 1947. 8-inch casing.

Sandy shale	81	81
Sand and clay with lenses of gravel	14	95
Sand and gravel	15	110
Sandy clay	10	120
Sand and gravel	33	153

5/3-23Q1. B. F. Caddie. Altitude is about 2,930 feet. Drilled by F. Marr in 1955. 8-inch casing, perforated from 100 to 200 feet. Yields 291 gpm with 112-foot drawdown.

Clay, sand and gravel	50	50
Very fine sand	40	90
Sand 1/16 inch	60	150
Sand and caliche	12	162
Coarse water sand	38	200

5/3-24D2. [illegible] Schroller. Altitude is about 2,920 feet. Drilled by J. B. Brooks in 1955. 8-inch casing, perforated from 96 to 136 feet and from 186 to 216 feet.

Material	Thickness (feet)	Depth (feet)
Dry sand and clay	70	70
Water sand, medium	10	80
Sandy silt	10	90
Coarse sand and clay	10	100
Sandy clay	20	120
Coarse water sand	20	140
Clay	10	150
Coarse water sand	10	160
Brown clay	30	190
Coarse sand and clay	5	195
Coarse water sand	19	214
Clay bottom	2	216

5/3-24D3. Formerly E. J. Crumpacker. Altitude is about 2,920 feet. Drilled by A. T. Cawrse. 8-inch casing, perforated from 157 to 197 feet.

Top soil	4	4
Hardpan	12	16
Sandy clay	30	46
Hard sand	38	84
Yellow clay	64	148
Light colored water sand	12	160
Streaks of gray shale in packed sand	22	182
Coarse water sand	13	195
Hard clay	2	197

5/3-24M1. B. B. Mathews, Jr. Altitude about 2,923 feet. Drilled by C. C. Lackyard in 1950. 8-inch casing, perforated from 177 to 213 feet and from 243 to 279 feet.

Surface material	3	3
Hardpan	12	15
Brown sandy clay	45	60
Cemented brown sand	36	96
Very fine sand, silt, water	12	108
Brown clay	21	129
Brown sand and clay in lenses 1-2 feet thick	37	166
Fine-grained sand, water	2	168
Brown clay	12	180
Water	6	186
Brown clay	13	199

Continued

5/3-24M1.--Continued.

Material	Thickness (feet)	Depth (feet)
Fine gray sand, water	6	205
Brown clay	6	211
Medium brown sand, water	2	213
Brown clay	29	242
Medium brown sand, water	6	248
Brown clay	4	252
No entry	4	256
Water	4	260
Brown clay, medium	5	265
Water sand	13	278
Blue clay	7	285

5/3-25D3. R. E. Pollard. Altitude about 2,930 feet. Drilled by David Engel in 1957. 6-inch casing.

Top soil	3	3
Caliche	4	7
Clay	7	14
Fine sand	6	20
Fine sand and clay	20	40
Coarse sand	20	60
Gravel	10	70
Sand and clay	17	87
Clay	15	102
Sand containing water	5	107
Clay	10	117
Sand	10	127
Clay	11	138
Sand and clay	10	148
Gravel, sand	9	157
Clay	2	159

5/3-25M1. J. P. Bellott. Altitude about 2,940 feet. Drilled by L. F. McFadden in 1950. 9-inch casing, perforated from 4 to 138 feet. Yielded 35 gpm with 142 feet of drawdown. Water Temperature 63°F.

Clay	12	12
Clay and sand	73	85
Sand	5	90
Clay	14	104
Water sand with gravel	35	139
Clay	2	141

5/3-25-1. Paul H. Pernworth. Drilled by C. Steele and Sons in 1951. 10-inch casing, perforated from 118 to 184 feet. Yielded 280 gpm with 125 feet of drawdown.

Material	Thickness (feet)	Depth (feet)
Sandy top soil	4	4
Hard brown clay	22	26
Soft light brown clay	4	30
Red soil carrying coarse sand and gravel	32	62
Hard-packed gray silt	8	70
Hard blue-green clay	10	80
Coarse sand and gravel	22	102
Water-bearing coarse sand and gravel	4	106
Clay	9	115
Ledge rock	2	117
Clay	44	161
Water-bearing sand and cobbles	6	167
Water-bearing coarse sand, rock and gravel	14	181
Hard clay	3	184

5/3-26F1. Pacific Water Co. Altitude about 2,945 feet. Drilled by Marr Drilling Co. in 1953. 12-inch casing.

Clay	75	75
Caliche and fine sand	43	118
Coarse sand	72	190
Clay and sand	50	240
Coarse sand	22	262
Fine sand	28	290
Clay and water sand	85	375
Coarse sand and clay	25	400
Water sand	20	420
Sandy clay	25	445
Water gravel	59	504

5/3-27E1. Apple Valley Ranchos Water Co. Altitude about 2,955 feet. Drilled by L. C. Finnell in 1953. 20-inch casing, perforated from 185 to 465 feet.

Material	Thickness (feet)	Depth (feet)
Sandy clay	61	61
Sand	7	68
Sandy clay	53	121
Sand and streaks of clay	11	132
Sand	3	135
Sand and clay	19	154
Sand, pea gravel, and some clay	61	215
Sand and gravel, small	7	222
Sand and gravel, medium	73	295
Sand and clay streaks	33	328
Sand and gravel, medium	8	336
Fine sand and some clay	89	425
Coarse sand, small gravel and some clay	95	520
Sandy clay	75	595
Compact blue clay	40	635
Soft fine sand	22	657
Interbedded blue and brown clay	6	663
Soft blue clay and fine sand	80	743

5/3-28A1. Apple Valley Ranchos Water Co., formerly W. W. Hitchcock. Altitude 2,951.5 feet. Drilled in 1912. 14-inch casing. Copied from California Department of Engineering (1918). Well has cement cap.

Soil	3	3
Clay	11	14
Decomposed granite and clay	105	119
Water gravel	16	135
Sandy clay	16	151
Water gravel	3	154
Sand and clay	25	179
Water sand	4	183
Sand and clay	17	200
Water sand	14	214
Sand and clay	10	224
Water sand	14	238
Clay	4	242
Water sand	7	249
Sand, gravel and clay	72	321
Sand	3	324
Clay	29	353
Water gravel	14	367
Clay and fine sand	64	431

Continued

5/3-28A1.--Continued.

Material	Thickness (feet)	Depth (feet)
Water gravel	16	447
Clay	4	451
Cemented gravel	13	464
Water gravel	4	468
Clay and sand	24	492

5/3-30N1. W. Pattison. Altitude 2,845.8 feet. Drilled by Ephraim Harris, deepened by F. D. McDougall in 1951. 12-inch casing, perforated from 66 to 89 feet.

Open pit of original well	45	45
Sand, rocks, and cement	6	51
Sticky clay	2	53
Concrete, rocks, and clay	5	58
Fine sand	8	66
No entry	2	68
Coarse sand, gravel and large rocks	24	92
Clay	1	93

5/3-31B1. W. Pattison. Altitude about 2,860 feet. Drilled by Howard Ley in 1954. 16-inch casing, perforated from 50 to 92 feet, 110 to 113 feet, 124 to 150 feet, 160 to 165 feet, and 180 to 220 feet.

Soil	6	6
Caliche	14	20
Yellow, sandy clay	3	23
Coarse sand, some ½-inch gravel	15	38
Clay, gray	3	41
Coarse sand	2	43
Gray silty clay	9	52
Coarse bright sand	1	53
Silty gray clay	8	61
Coarse sand, gravel and 3-inch rock	7	68
Green and yellow clay	1	69
Yellow clay lenses, coarse sand and gravel streaks	4	73
Coarse sand, gravel and rock to 6 inches, firm	12	85
Coarse sand, gravel and rock to 2 inches, loose	7	92
Yellow clay	18	110
Coarse sand, dirty	3	113
Yellow sandy clay	11	124
Coarse sand, ½-inch gravel	5	129
Yellow clay, sand and gravel streaks	7	136

Continued

5/3-31B1.--Continued

Material	Thickness (feet)	Depth (feet)
Yellow sandy clay	5	141
Sand and clay streaks	8	149
Caliche	3	152
Tough yellow clay	8	160
Coarse sand, 3/4-inch gravel	5	165
Tough yellow clay and caliche	16	181
Dirty sand, some ½-inch gravel	4	185
Coarse sand	2	187
50 percent fine-and-50 percent coarse sand, water	18	205
Coarse bright sand, 20 percent 3/4-inch gravel	8	213
Coarse bright sand, tight	7	220
Sandy clay	5	225
Yellow clay	3	228

5/3-31Q3. E. J. McElroy. Altitude about 2,850 feet. Drilled by Oro Grande Farm Implement Co. in 1957. 8-inch casing.

Top soil	1	1
Brown clay	2	3
Tan clay	7	10
Loose sand	6	16
Brown silt	11	27
Loose sand	11	38
Gravel clay cemented 4 inches	5	43
Loose sand 1 inch	19	62
Gravel 12 inch	30	92
Clay	½	92½

5/3-32D1. Robert Abbott. Altitude about 2,985 feet. Drilled by J. S. Gobar in 1947.

Sand	8	8
Some clay and sand	4	12
Sandy clay	152	164
Hard clay	4	168
Cemented sand	2	170
Water sand (dirty)	22	192
Hardpan and clay	34	226
Cement	17	243
Gravel, dirty	6	249
Sandy clay	24	273
Clay, white and very hard	12	285
Cement	4	289
Sandy clay	12	301

Continued

5/3-32D1.--Continued.

Material	Thickness (feet)	Depth (feet)
Gravel, dirty	14	315
Sandy clay	25	340
Cement	8	348
Sandy clay	17	365
Clay, sand and cement	20	385
Sandy clay	40	425
Cement	16	441
Clay, hard	11	452
Clay	33	485
Sandy clay	5	490
Clay	11	501

5/3-32L1. J. Godshall, formerly M. F. Ihmsen. Altitude 2,994.7 feet. Drilled in 1912. 14-inch casing.

Hard clay	28	28
Hard clay and sand	54	82
Hard cement	70	152
Cement	4	156
Hard clay	17	173
Water, sand	7	180
Fine sand	11	191
Hard clay	6	197
Fine sand	10	207
Clay	7	214
Fine sand	3	217
Fine sand and gravel	8	225
Fine sand	6	231
Sand and clay	2	233
No entry	14	247
Clay	30	277
Coarse sand	14	291
Hard clay	13	304

5/3-32N1. M. M. Brady. Altitude about 2,985 feet. Drilled by J. S. Gobar in 1952. 10-inch casing, perforated from 245 to 265 feet.

Top soil	10	10
Loose sand	36	46
Sandy clay	14	60
Tough clay	7	67
Sandy clay	107	174
Water sand	34	208
Clay	6	214
Sandy clay	26	240
Water gravel, fine	25	265
Clay	3	268
Sand and clay, thin layers	10	278
Tough clay	4	282
Dead sand	18	300

5/3-33C1. Realton, formerly Robert Hitchcock. Altitude about 2,995 feet. Drilled in 1932. 10-inch casing, perforated from 43 to 62 feet. Yielded 46 gpm with 29-foot drawdown.

Material	Thickness (feet)	Depth (feet)
Mucky yellow clay	32	32
Tight rocky formation bearing very little water	2	34
Clay	6	40
Rock	3	43
Rock and clay	3	46
Gravel and loose rocks bearing water	5	51
Hard ledge of rock	2	53
Gravel and clay	4	57
Rocky clay	13	70
Hard clay with rock	4	74
Loose rock	4	78
Hard rock	3	81

5/3-35C1. Pacific Water Co. Altitude about 2,955 feet. Drilled by Santa Rosa Drilling Co. in 1954. 12-inch casing.

Medium-grained brown sand	20	20
Fine brown sand	10	30
Coarse water sand	40	70
Sandy clay	40	110
Coarse sand	20	130
Sandy clay	10	140
Coarse sand	20	160
Sandy clay	20	180
Coarse sand	10	190
Muddy clay and sand	10	200
Coarse water sand	30	230
Sandy clay	20	250
Coarse sand	40	290
White sandy clay	10	300
Coarse water sand	70	370
Sandy clay	40	410
Coarse sand	30	440
Sandy clay	10	450
Coarse water sand	50	500

5/3-35G1. A. L. Cooley, formerly Boyd Rust. Altitude about 2,960 feet. Drilled by L. O. Cozart in 1951. 10-inch casing.

Top soil	2	2
Clay, hardpan	8	10
Sandy clay, caliche	5	15
Gravel clay, dark	7	22

Continued

5/3-25Q1.--Continued.

Material	Thickness (feet)	Depth (feet)
Sand, gravel	21	43
Sandy clay	26	69
Clay	19	88
Sand, gravel, water	52	140
Sand, clay, hard	36	176
Sand, gravel, water	16	192
Clay, sand	20	212
Sand, clay, water	13	225
Clay	31	256
Gravel, sand, water	29	285
Caliche	11	296
Clay, gravel	7	303
Conglomerate	43	346
Rock, clay	12	358
Clay and shale, blue	19	377
Sand, gravel, water	26	403
Clay	7	410

5/4-4B1. Southwestern Portland Cement Co. Altitude about 2,690 feet. Drilled by Howard Ley to 208 feet and Roscoe Moss to 350 feet in 1954. 16-inch casing, perforated from 240 to 326 feet.

Soil	7	7
Coarse sand and gravel	21	28
Sand, gravel and rock to 12 inch, water	10	38
Compact sandy yellow clay	58	96
Sand $\frac{1}{4}$ inch to 1 inch, sharp rock formation, loose	20	116
Coarse sand and sharp rock embedded in touch caliche	54	170
Coarse sand and gravel, loose	2	172
Compact yellow clay, sand and embedded 3/4-inch gravel	12	184
Coarse sand and gravel, loose	4	188
Compact yellow clay, embedded sand and gravel	12	200
Coarse sand and gravel	8	208
Sand to $\frac{1}{4}$ inch, gravel	6	214
Brown sandy clay and embedded gravel	24	238
Sand to 3/4 inch, gravel, muddy	$8\frac{1}{2}$	$246\frac{1}{2}$
Brown sandy clay	$1\frac{1}{2}$	248
Sand to 3/4 inch, gravel and clay	8	256
Sand to 1 inch, muddy	23	279
Brown sandy clay	1	280
Clay and gravel	7	287
Clay, cemented gravel	3	290
Sand to 3/4 inch, gravel, loose	8	298
Sand to 3 inches, gravel, tight	14	312
Sand to 3/4 inch, gravel, loose	2	314
Sandy clay and embedded gravel	36	350

5/4-4G1. Southwestern Portland Cement Co. Altitude about 2,695 feet. Drilled by Howard Ley in 1951. 16-inch casing, perforated from 138 to 152 feet. Yielded 950 gpm with 17 feet of drawdown. Water temperature of 70°F.

Material	Thickness (feet)	Depth (feet)
Soil	7	7
Coarse sand	21	28
Coarse sand and gravel and 10-inch rock	8	36
Coarse sand and gravel	8	44
Gravelly yellow clay	52	96
Tough yellow clay, small amount of sand and gravel	4	100
Sand and gravel, 2-inch rock, 10-20 percent clay, firm, non-water-bearing	38	138
Clean river sand, 50 percent 3/4-inch water gravel, loose	14	152
Sharp sand and gravel embedded in yellow clay, three small tough clay ribs	8	160

5/4-4G2. Southwestern Portland Cement Co. Altitude about 2,690 feet. Drilled by J. W. Burkhart in 1935. 10-inch casing, perforated from 299 to 310 feet. Yielded 600 gpm with 48 feet of drawdown.

Sandy soil	7	7
Water sand	22	29
Boulders and gravel	7	36
Gravel, clay	85	121
Gravel, clay, water flowed over casing when casing was lowered	11	132
Sand and gravel with clay, 20 percent rock, 60 percent sand, and 20 percent clay	167	299
Coarse sandy gravel and rocks, 40 percent rocks, 50 percent coarse gravel, 10 percent clay	11	310
Coarse gravel, rocks, sand and clay, 10 percent rocks, 70 percent sand and gravel, 20 percent clay	40	350

5/4-8Q1. Victorville County Water District. Altitude about 2,918 feet. Drilled by Mogle Brothers in 1953. 12-inch casing, perforated from 142 to 360 feet.

Material	Thickness (feet)	Depth (feet)
Top soil	12	12
Coarse sand	43	55
Cemented sand	15	70
Clay	12	82
Sand and rock, dry	18	100
Coarse sand	24	124
Clay	18	142
Coarse sand	10	152
Clay	12	164
Cemented sand	18	182
Sandy clay	14	196
Clay	10	206
Cemented sand	6	212
Clay	52	264
Cemented sand	28	292
Clay	24	316
Sand	6	322
Clay	10	332
Coarse sand	28	360
Clay	10	370
Quicksand	10	380
Clay	4	384
Clay and sand	24	408
Clay	6	414
Fine sand	6	420
Yellow clay	8	428
Blue clay and shale	22	450

5/4-9K1. Victorville County Water District. Altitude about 2,860 feet. Drilled by Howard Ley in 1948. 16-inch casing, perforated for 100 feet.

Soil	5	5
Sandy clay, yellow	48	53
Sand, some clay	7	60
Clean fine sand	2	62
Yellow clay	6	68
Coarse sand and gravel	3	71
Yellow clay	9	80
Sandy clay	21	101
Coarse sand, water	1	102
Tough yellow clay	10	112
Clean sand and gravel, water	2	114
Yellow clay	3	117
Sand and gravel, water	2	119

Continued

5/[illegible]-9K1.--Continued.

	Thickness (feet)	Depth (feet)
Sandy clay, tough ribs	5	124
Clean sand and clay ribs, mostly clay	10	134
Tough yellow clay	23	157
Clean coarse sand, water	2	159
Tough yellow clay	12	171
Coarse sand, water	1	172
Hardpan, tough yellow clay	15	187
Coarse sand and gravel, water	4	191
Clay	2	193
Cemented sand and small streak of lime	1	194
Coarse sand and gravel	15	209
Clay	4	213
Coarse sand and gravel, water	2	215
Yellow clay	10	225
Coarse sand and gravel, water	5	230
Yellow clay	15	245
Sand and gravel, water	2	247
Sandy clay	11	258
Coarse sand, water	2	260
Clay	5	265
No entry	1	266
Tough clay	14	280
Sand and gravel	3	283
Clay	2	285
Coarse sand, water	5	290
Clay	4	294
Coarse sand and gravel, water	9	303

5/4-10N3. Anna Weiss. Altitude about 2,762 feet. Drilled by J. S. Gobar in 1941. 8-inch casing, perforated from 140 to 180 feet.

Shaft (not logged)	30	30
Quicksand	8	38
Cement	2	40
Clay	4	44
Dirty gravel	13	57
Clay	10	67
Sandy clay	27	94
Decomposed granite, dirty	31	125
Sandy clay	27	152
Soft clay	24	176
Kaolin	9	185
Clay	10	195

5/4-9R2. Victorville High School. Altitude about 2,760 feet. Drilled by J. S. Gobar in 1934. 14-inch casing, perforated from 147 to 180 feet.

Material	Thickness (feet)	Depth (feet)
Top sand	18	18
Clay	6	24
Dirty sand	3	27
Clay	11	38
Fine gravel, water	12	50
Clay	7	57
Cement	1	58
Clay	20	78
Sandy clay	20	98
Fine gravel, water	17?	115?
Sandy clay	11?	126
Tough gray clay	15	141
Sandy clay	8	149
Clay	5	154
Dirty gravel, water	17	171
Gravel, water	24	195
Clay	6	201

5/4-10E1. Atchison Topeka and Santa Fe Railway. Altitude about 2,720 feet. Drilled by the Talmage Brothers in 1913. 15-inch casing, perforated from 22 to 52 feet and from 40 to 104 feet. Rock screen put around the casing in 1926. Yielded 30 gpm when drilled. Yielded 366 gpm after reperforating in 1926.

Sand	22	22
Clay	4	26
Rock and sand	26	52
Hard sandy clay	52	104
Cemented gravel	60	164
Coarse cemented gravel	6	170
Hard sandy clay	22	192
Hard cemented sand	18	210
Sand and rock	11	221
Cemented clay and sand	9	230
Cemented sand and gravel	20	250

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5/4-10E2. Atchison Topeka and Santa Fe Railway. Altitude about 2,720 feet. Drilled by the Roscoe Moss Co. in 1922. 16-inch casing, perforated from 25 to 43 feet, 117 to 140 feet, and 173 to 243 feet. Yielded 450 gpm.

Material	Thickness (feet)	Depth (feet)
Soil	9	9
Sand	16	25
Coarse sand	17	42
Sandy clay	23	65
Clay	52	117
Gravel and clay	23	140
Cemented sand	10	150
Clay	7	157
Cemented gravel	16	173
Gravel and clay	11	184
Gravel	3	187
Gravel and clay	30	217
Gravel	6	223
Gravel and clay	20	243
Hard clay	5	248
Clay	49	297
Decomposed granite	8	305
Granite	12.5	317.5

5/4-10E3. Atchison Topeka and Santa Fe Railway. Altitude about 2,270 feet. Drilled by J. S. Gobar in 1938. 16-inch casing, perforated from 14 to 34 feet. Yielded 300 gpm.

Fine sand and gravel	19	19
Coarse gravel	14	33
Large rocks	7	40

5/4-10N1. Victorville County Water District. Altitude about 2,800 feet. Drilled by F. S. Marr in 1956. 14-inch casing, perforated from 264 to 402 feet. Yielded 1,363 gpm with 37 feet of drawdown.

Sand and granite	15	15
Sand	10	25
Sand and boulders	25	50
Fine sand and gravel	130	180
Sand with clay streaks	60	240
Boulders	2	242
Sand and gravel	18	260
Sandy gravel with streaks of clay	40	300
Sandy gravel with streaks of caliche	15	315
Boulders	2	317
Sandy gravel with streaks of clay	77	394
Clay, gravel and sand	11	405
Boulders	20	425

5/4-11J1. G. Newton, formerly Paul Kirkpatrick. Altitude about 2,860 feet. Drilled by J. S. Gobar. 12-inch casing, perforated from 168 to 203 feet.

Material	Thickness (feet)	Depth (feet)
Top soil clay	2	2
Sand, red, yellow and gray	12	14
Sandy clay	30	44
Sand, gray	24	68
Gray, brown and yellow clay	15	83
Kaolin and sand	10	93
Sandy clay	22	115
Sand, water	13	128
Clay, hard and gray	5	133
Sandy clay	11	144
Quicksand	6	150
Gray clay, sandy	10	160
Clay	4	164
Sandy clay	4	168
Gravel	22	190
Sandy clay	6	196
No entry	8	204
Sandy clay	4	208

5/4-13L1. E. L. Horton. Altitude about 2,815 feet. Drilled by L. O. Cozart in 1951. 14-inch casing to 100 feet, perforated from 126 to 176 feet. Yield 450 gpm with 40-foot drawdown.

Top soil	2	2
Hardpan	5	7
Sandy clay	3	10
Sand and boulders	15	25
Sand and gravel, water	27	52
Pea gravel and boulders	46	98
Brown clay, hard	23	121
Sand, gravel and boulders, water	14	135
Brown clay	15	150
Gravel, sand, water	18	168
Brown clay	8	176

5/4-13M1. W. E. Hartman. Altitude about 2,800 feet. Drilled by C. C. Lackyard in 1950. 12-inch casing, perforated from 38 to 124 feet.

Surface material	4	4
Decomposed granite	26	30
Fine sand, some small rock	8	38
Water in very fine silty sand	24	62
Water in brittle formation, cemented rocks and sand	24	86
Brown sandy clay	24	110
Water	6	116
Brown clay	5	121
Water	3	124

5/4-13H2. F. Johanson. Altitude about 2,805 feet. Drilled by C. C. Lackyard in 1950. 12-inch casing, perforated from 56 to 116 feet.

Material	Thickness (feet)	Depth (feet)
Surface material	8	8
Hardpan	27	35
Streaked fine brown sand and clay	20	55
Water	13	68
Cemented sand	17	85
Water	8	93
Brown clay	23	116

5/4-13N3. W. E. Hartman, formerly Carl Breeder. Altitude about 2,805 feet. Drilled by C. C. Lackyard in 1950. 8-inch casing to 78 feet and 6-inch casing from 78 to 126 feet, perforated from 74 to 126 feet.

Silt and clay	50	50
Decomposed granite, water	16	66
Hard cemented gray sand and boulders	12	78
Hard brown sand, very fine	14	92
Brown sandy clay	22	114
Conglomerate formation	13	127

5/4-13Q1. W. E. Hartman. Altitude about 2,820 feet. Drilled by C. C. Lackyard in 1949. 12-inch casing, perforated from 58 to 118 feet.

Surface material	5	5
Hard clay	5	10
Sandy clay	13	23
Decomposed granite	16	39
Gray sand and rocks, water	33	72
Cemented conglomerate, hard	6	78
Sandy clay	16	94
Water	21	115
Sandy clay	3	118

5/4-16B1. L. W. Young. Altitude about 2,870 feet. Drilled by C. C. Lackyard in 1948. 6-inch casing, perforated from 119 to 159 feet.

Surface material	6	6
Hardpan	6	12
Sandy yellow clay	18	30
Hard sand	50	80
Water gravels interbedded with clay layers	79	159

5/4-16Q1. Appleton Land, Water and Power Co. Altitude is 2,848.3 feet. 14-inch casing. Copied from California Department of Engineering (1918).

Material	Thickness (feet)	Depth (feet)
Compact, gravelly soil	6	6
Compact, bedded, dry fine gravel	8	14
Compact, medium coarse gravel	11	25
Bedded, coarse sand with fine gravel and thin layers of yellow clay	6	31
Very hard, light yellow, sandy clay	2	33
Bedded sand	2	35
Compact, light yellow, sandy clay	14	49
Sand with small amounts of fine gravel	6	55
Compact, yellow, sandy clay	23	78
Soft, sandy clay and layers of water sand	9	87
Compact, yellow, sandy clay	8	95
Coarse water sand	3	98
Sandy, yellow clay	5	103
Sand with layers of hard clay	5	108
Sandy, yellow clay and layers of sand	12	120
Hard, grayish, sandy clay	8	128
Hard, rusty, yellow clay	39	167
Coarse sand and small amounts of fine clay	6	173
Hard, yellow, sandy clay	35	208
Soft, sandy clay	9	217
Soft, sandy clay with layers of coarse sand and fine gravel and soft sandstone	16	233
Very hard, sandy clay, changing every few feet in color and texture	34	267
Soft, sandy clay	7	274
Coarse sand with clay and small amounts of gravel	4	278
Hard sandy clay	12	290
Coarse sand with clay and small amounts of fine gravel	6	296
Sandy yellow clay	21	317
Sand and fine gravel, dirty	16	333
Sandy gray clay	5	338
Sand and fine gravel	24	362
Hard gray clay	8	370
Very compact shale-like yellow clay	10	380
Sand with very little fine gravel	22	402
Cemented coarse sand	13	415
Hard blue clay	23	438
Blue and brown clay	22	460
Layers of packed sand and sandy shale	70	530
Layers of packed sand and sandy shale mixed with boulders	25	555

Continued

5/4-16Q1.--Continued.

Material	Thickness (feet)	Depth (feet)
Soft sandrock	3	558
Sand, clay and gravel	22	580
Hard shale	32	612
Hard shale with loose boulders	10	622
Hard shale	18	640
Sand, gravel and clay	128	768
Fine water sand and gravel	10	778
Sand, gravel, and clay	34	812
Gypsum conglomerate	14	826
Rock	9	835
Hard granite	26	861

5/4-21A1. John Brocker. Altitude about 2,925 feet. Drilled by David Engel in 1955. 8-inch casing, perforated from 160 to 200 feet.

Sandy gravel	10	10
Caliche	5	15
Sandy gravel	5	20
Sandy clay	25	45
Sand	10	55
Clay	13	68
Clay sand	22	90
Sandy clay	22	112
Sand	4	116
Sandy clay	24	140
Sand	6	146
Sandy clay	18	164
Clay	6	170
Sand, water	30	200

5/4-21G1. R. Sells, formerly Hughs. Altitude about 2,920 feet. drilled by T. E. Gunderson in 1946. 9-inch casing, perforated for 30 feet.

Coarse sand	40	40
Fine sand	20	60
Clay	82	142
Two aquifers separated by 12 feet of clay	23	165

5/4-26Q1. L. A. Phillips, formerly Flowers. Altitude about 2,810 feet. Drilled by R. D. Wilson in 1939. 8-inch casing, perforated from 57 to 59 feet and from 72 to 94 feet. Yielded 60 gpm.

Gravel	16	16
Clay	41	57
Gravel	1	58
Clay	14	72
Gravel and sand	28	100

5/4-27C6. D. Cascarella. Altitude about 2,880 feet. Drilled by L. F. McFadden in 1953. 9-inch casing.

Material	Thickness (feet)	Depth (feet)
Top soil	12	12
Loose sand	5	17
Sand and clay	21	38
Clay	5	43
Sand and clay	18	61
Clay	9	70
Sand and clay	8	78
Clay	3	81
Coarse water sand	13	94
Clay	2	96

5/4-27C7. J. Fenneberg, formerly F. M. Thompson. Altitude about 2,870 feet. Drilled by A. Cawrse in 1955. 8-inch casing, perforated from 95 to 135 feet.

Sand and clay	94	94
Gray water sand, gravel	39	133
Yellow clay	2	135

5/4-27F2. W. Engel, formerly C. Worley. Altitude about 2,875 feet. Drilled by L. O. Cozart in 1947. 6-inch casing, perforated from 72 to 132 feet.

Loose sandy clay	66	66
Coarse gravel	2	68
Sandy clay	14	82
Sand and gravel	3	85
Clay	34	119
Sand and gravel	13	132

5/4-33E1. Harold Welch. Altitude about 3,025 feet. Drilled by C. C. Lackyard in 1951. 6-inch casing, perforated from 191 to 231 feet and from 260 to 300 feet.

Surface material	12	12
Blue shale	36	48
Streaked brown sand and clay	47	95
Cemented sand	75	170
Sand, no water	5	175
Cemented conglomerate	30	205
Water	11	216
Streaked sand and clay, water	9	225
Hard sandy brown clay, swelling	20	245
Brown clay	15	260
Water in brittle formation	14	274
Sandy brown clay, water	26	300

5/4-35A1. Kalin Co., formerly Verde Ranch. Altitude 2,799.1 feet. Log from Thompson (1929).

Material	Thickness (feet)	Depth (feet)
Coarse sand and gravel	135	135
Blue clay	23	158
Coarse sandy gravel	30	188
Blue clay	13	201
Coarse sand and gravel	34	235
Blue clay	7	242
Coarse sand and gravel	26	268
Blue clay	9	277
Shaly rock	15	292
Coarse sand and gravel	22	314
Blue clay	10	324
Yellow clay	46	370
Soapstone	7	377
Coarse sand and gravel	39	416
Soapstone	5	421
Coarse sand and gravel	24	445
Soapstone	8	453
Coarse sand and gravel	34	487
Soapstone	9	496
Coarse sand and gravel	78	574
Blue clay, hard	150	724
Coarse sand and gravel	11	735
Shaly rock	4	739
Coarse sand and gravel	16	755
Shaly rock	4	759
Coarse sand and gravel	16	775
Shaly rock	4	779
Coarse sand and gravel	10	789
Yellow clay	10	799
Shaly rock	39	838
Blue clay	8	846
Shaly rock	55	901
Blue clay	7	908
Yellow clay	38	946
Blue clay	11	957
Shaly rock	28	985

5/4-35J1. Mojave River State Fish Hatchery. Altitude about 2,815 feet. Drilled by D. M. McCalla in 1952. 16-inch casing, perforated from 29 to 397 feet. Yielded 3,000 gpm with 49 feet of drawdown.

Top soil, fine sand	29	29
Water sand	61	90
Sandy clay	35	125
Coarse sand	25	150
Clay	20	170
Coarse sand	40	210
Fine gravel	80	290
Clay	25	315
Coarse sand	82	397
Clay	8	405

5/4-35J2. Mojave River State Fish Hatchery. Altitude about 2,815. Drilled by D. M. McCalla in 1952. 6-inch casing, perforated 100 to 400 feet. Water temperature 60°F.

Material	Thickness (feet)	Depth (feet)
Sand and silt	25	25
Coarse sand	42	67
Clay	4	71
Fine gravel	13	84
Clay	2	86
Sand	35	121
Coarse sand	44	165
Sandy clay	22	187
Sand	5	192
Gravel	17	209
Clay	2	211
Sand	69	280
Coarse sand	28	308
Clay	8	316
Sand and gravel	14	330
Fine gravel	62	392
Clay bottom	20	412

5/4-35L2. L. O'Neill. Altitude about 2,885 feet. Drilled by J. S. Gobar in 1950. 8-inch casing, perforated from 135 to 145 feet.

No entry	1	1
Red clay with rocks	1	2
Cemented gravel	38	40
Brown clay	12	52
Sandy light brown clay	6	58
Brown sand	8	66
Gray sand	4	70
Mucky sand	10	80
Cemented gravel, water	28	108
Brown sandy clay	10	118
Brown cemented sand	10	128
Water gravel with cement reef	24	152

5/4-35R1. J. B. Andrews. Altitude about 2,910 feet. Drilled by J. S. Gobar in 1950. 8-inch casing, perforated 160 to 195 feet.

Material	Thickness (feet)	Depth (feet)
No entry	1	1
Windblown sand	1	2
Sandy clay with hard ribs	38	40
Cemented gravel	32	72
Sandy clay	26	98
Cemented gravel	20	118
Sandy clay	20	138
Brown clay	14	152
Cemented sand	16	168
Good water gravel	7	175
Cemented gravel	7	182
Good gravel	10	192
Cemented sand	8	200

5/4-35R1. Kalin Co., formerly Verde Ranch. Altitude about 2,885 feet. 14-inch casing, perforated from 174 to 557 feet.

Top soil	10	10
Caliche	50	60
Shale and sand	60	120
Sand, water	10	130
Gravel, water	70	200
Shale, gray	20	220
Sand and gravel, water	80	300
Water sand and gravel, with shale lenses	257	557

5/4-36G1. Kalin Co., formerly Upper Verde Ranch. Altitude about 2,810 feet. Drilled by McCalla Bros. in 1952. 14-inch casing, perforated 109 to 128 feet and 200 to 253 feet. Reported yield about 1,890 gpm with 30-foot drawdown.

Top sand	10	10
Coarse sand	13	23
Coarse gravel	40	63
Decomposed granite	8	71
Hard sand	13	84
Fine gravel	18	102
Clay and gravel	7	109
Coarse gravel	18	127
Tight clay and gravel	24	151
Sandy clay	39	190
Fine sand and gravel	6	196
Coarse gravel	44	240
Clay and coarse gravel	13	253
Rock and clay	33	286

5/5-3C2. Kalin Co. Altitude about 2,825 feet. Drilled by [illegible] H. Scoggin in 1955. 18-inch casing, perforated from 20 to 265 feet. Yielded 2,000 gpm with 10 feet of drawdown.

Material	Thickness (feet)	Depth (feet)
Surface fill	10	10
Sand and surface fill	10	20
Water gravel	30	50
Shale	13	63
Water sand and gravel	200	263
Shale, gray	2	265

5/5-5C1. R. D. Clark. Altitude about 2,945 feet. Drilled by Brenton and Rogers in 1956. 10-inch casing, perforated from 144 to 244 feet.

Top soil	3	3
Gray clay	11	14
Brown clay	25	39
Blue clay	8	47
Sandy brown clay	39	86
Sand and gravel	23	109
Blue clay	13	122
Light brown clay	47	169
Water sand	4	173
Brown clay	18	191
Blue clay	26	217
Water sand	5	222
Hardpan	21	243
Soft brown clay	8	251

5/5-8A1. L. E. Carder. Altitude about 3,005 feet. Drilled by F. D. McDougall in 1955. 8-inch casing, perforated from 264 to 293 feet.

Surface material	2	2
Sandy gray clay	16	18
Brown, sandy clay	14	32
Sticky brown clay	14	46
Sandy gray clay	17	63
Soft, sandy, brown clay	82	145
Sticky, brown clay	20	165
Sandy brown clay	10	175
Water sand, fine	5	180
Sticky, brown clay	78	258
Water sand	39	297
Light brown sandy clay	3	300

5/5-15N1. Willabel MacGregor, formerly C. R. Smyth. Altitude about 3,090 feet. Drilled by F. D. McDougall in 1951. 10-inch casing, perforated from 268 to 274 feet, 300 to 309 feet, and 341 to 365 feet.

Material	Thickness (feet)	Depth (feet)
Sandy soil	34	34
Hard gray shale	6	40
Sticky gray clay with shale ribs	150	190
Loose sandy clay	22	212
Sticky brown clay	28	240
Loose dry sand	4	244
Sticky brown clay	19	263
Brown sandy clay	9	272
Water-bearing sand	2	274
Brown sandy clay	15	289
Fine water sand	5	294
Sandy clay	4	298
Sticky brown clay	4	302
Water-bearing sand	4	306
Clay	35	341
Water-bearing sand with clay ribs	32	373

5/5-21L1. I. S. Clark. Altitude about 3,145 feet. 6-inch casing, perforated for 48 feet.

Sandy soil	308	308
Water sand	6	314
Clay	6	320

5/5-22K1. California Electric Power Co. Altitude about 3,105 feet. Drilled by J. S. Gobar in 1938. 8-inch casing, not perforated. Yielded 10 to 15 gpm.

Top soil	4	4
Cement	2	6
Cemented sand	8	14
Cement, very hard	6	20
Sandy clay with some cement	24	44
Silt	46	90
Cemented sand	9	99
Sandy clay, gray	125	224
Sticky clay	28	252
Sand	6	258
Sandy clay, gray	44	302
Clay with kaolin	5	307
Sand	9	316
Sandy clay	6	322
Sand with some clay	12	334
Clay with small gravel	12	346

Continued

5/5-22R1.--Continued.

Material	Thickness (feet)	Depth (feet)
Clay, very sticky	18	
Sandy clay	10	364
Clay	8	374
Sandy clay	8	382
Clay	5	390
Sandy clay	15	395
Clay and kaolin	10	410
Sandy clay	17	420
		437

5/6-22R1. Altitude about 3,285 feet. Drilled by Hockersmith in 1923. Well destroyed.

Decomposed granite sand	90	90
Sandy clay	170	260
Fine sand	25	285
Clay and water sand	50	335
Red clay and sand	20	355
Sand and gravel	45	400
Sand, gravel, water	50	450
Water gravel	40	490
Clay	40	530
Sand, gravel, water	72	602
Hard sand rock	8	610
Clay and gravel	100	710
Blue shale	5	715
Water gravel	15	730
Blue and brown shale	70	800
Hard sand rock	87	887
Brown sandy shale	7	894
Hard sand	54	948
Brown sandy shale	32	980
Water gravel	85	1,065
Brown shale	22	1,087
Hard shell cap	3	1,090
Sand	12	1,102
Brown and blue sand	78	1,180
Brown s andy shale	35	1,215
Sandy shale	105	1,320
Blue and brown sand	15	1,335
Conglomerate	15	1,350
Crystal quartz	10	1,360
Lime and blue shale	125	1,485
Rock lime shale	115	1,600
Oyster shell and lime shale	97	1,697
Conglomerate, drilling stopped	20	1,717
Cored by Spangler Brothers	4	a1,721

a. The above drilling was stopped with a statement that they had struck granite. Several years later the well was reportedly deepened to 3,216 feet and it is reported that drilling was through clays and shales.

6/3-9E1. Samuel C. Guess. Altitude about 3,095 feet. Drilled by David Engel in 1955. 8-inch casing, perforated from 35 to 60 feet. Yielded 5 gpm.

Material	Thickness (feet)	Depth (feet)
Clay	20	20
Sand	4	24
Sand clay	13	37
Sand	1	38
Rock	22	60

6/3-16C1. John Dickson. Altitude about 3,080 feet. Drilled by Ephraim Harris in 1951. 8-inch casing, not perforated. Yield 17 gallons per hour.

Surface type soil	13	13
Hard-packed sand and clay	25	38
Granite, not too hard	14	52
Hard granite	11	63

6/3-17C1. H. W. Steward. Altitude about 3,040 feet. Drilled by Ephraim Harris in 1951. 14-inch casing, perforated from 147 to 210 feet and 210 to 255 feet. Reported yield about 1,240 gpm with a 139-foot drawdown.

Surface type soil	30	30
Granite sand and silt	40	70
Granite sand and gravel to 7 inches	32	102
Sand and silt	28	130
Coarse clean granite sand and gravel to 4 inches	21	151
Sand and silt	11	162
Clean coarse granite sand and gravel to 1 inch	14	176
Coarse granite sand and gravel to 2 inches with buff-colored clay	24	200
Coarse clean sand and gravel to 7 inches, water	54	254
Coarse sand and gravel with buff-colored clay	6	260

6/3-33N1. W. J. Johnston. Altitude is about 2,930 feet. Drilled by David Engel in 1954. 8-inch casing, perforated from 90 to 135 feet. Yield 30 gpm with a 4-foot drawdown.

Top soil	2	2
Hardpan	12	14
Sandy clay	11	25
Gray clay	43	68
Blue shale	2	70
Sandy clay	10	80
Gray shale	2	82

Continued

6/3-33N1.--Continued.

Material	Thickness (feet)	Depth (feet)
Sand clay	12	94
Water sand	5	99
Hard sand	2	101
Water sand	11	112
Clay	4	116
Water gravel	4	120
Water sand	13	133
Clay	2	135

6/3-33N2. R. E. Clark. Altitude is about 2,930 feet. Drilled by L. F. McFadden in 1954. 9-inch casing, perforated from 95 to 138 feet.

Sand	35	35
Clay	18	53
Clay and sand	13	66
Brown clay	6	72
Green clay	4	76
Sand and clay	19	95
Water sand	19	114
Clay	2	116
Good coarse water sand	22	138
Clay	2	140

6/3-34M1. C. R. Read. Altitude about 2,940 feet. Drilled by A. T. Cawrse in 1955. 8-inch casing, perforated from 98 to 175 feet.

Top soil	3	3
Hardpan	8	11
Sand and gravel	6	17
Sandy clay	39	56
Clay	22	78
Clay rock	20	98
Water sand	30	128
Fine yellow clay	32	160
Coarse water sand and gravel	15	175
Clay	3	178

6/3-34M2. C. R. Read. Altitude about 2,940 feet. Drilled by Paul Waas in 1948. 6-inch casing, perforated 105 to 119 feet.

Heterogeneous formations of clays and sands not in definite stratas	105	105
Water-bearing gravel and coarse sand	14	119
Yellow clay	1	120

6/3-34R1. Cedarquest. Altitude about 2,950 feet. Drilled by A. T. Cawrse. 8-inch casing, perforated 120 to 160 feet.

Material	Thickness (feet)	Depth (feet)
Top soil	3	3
Hardpan	2	5
Red sand	22	27
Blue clay	9	36
Coarse sand	4	40
Clay	23	63
Coarse sand	9	72
Clay	46	118
Dark sand	8	126
Water sand	11	137
Clay	11	148
Water gravel	10	158
Clay	2	160

6/3-35C1. Philip Linden. Altitude about 3,090 feet. Drilled by A. T. Cawrse. 8-inch casing, perforated 262 to 312 feet.

Top soil	3	3
Adobe clay	9	12
Coarse sand and rock	42	54
Sandstone	21	75
Hardpan and rock	15	90
Gray clay	6	96
Hard rock	75	171
Clay, light color	17	188
Hard sand	24	212
Dark sandy, dry	4	216
Streaks of clay and sand	4	220
Sand, water	4	224
Sand and clay	36	260
Sand rock	12	272
Coarse water sand	18	290
Blue clay	22	312

6/6-6Q2. Ralph Bryant. Altitude about 2,850 feet. Drilled by Studler Thorpe in 1955. 10-inch casing, perforated 70 to 116 feet, and 160 to 171 feet.

Top soil	30	30
Lake mud	40	70
Rock	5	75
Gravel, clay	40	115
Rock	2	117
Gravel, clay	68	185
Lava rock	50	235
Sand	6	241?

6/7-3-1. W. M. Gray. Drilled by Clampitt and Moss in 1912. 12-inch casing. Well destroyed.

Material	Thickness (feet)	Depth (feet)
Gray clay	10	10
Red clay	10	20
Cemented gravel, hard and soft layers, much cement	64	84
Cemented gravel, loose, little cement	6	90
Cemented gravel	61	151
Fine gravel	24	175
Cemented gravel	10	185
Red clay	1	186
Cemented gravel, streaks of sand	17	203
Cemented gravel	24	227
Fine sand	10	237
Clay	4	241
Fine sand	26	267
Coarse gravel, considerable clay mixed in chunks	10	277
Cemented gravel	8	285
Sand	5	290
Clay, thin streak	--	290
Sand	10	300
Streaks of clay	7	307
Sand	8	315
Clay	6	321
Good gravel	3	324
Fine sand	3	327
Clay	1	328
Gravel	5	333
Clay	15	348
Gravel	15	363
Clay	29	392

6/7-22J1. Tanner Ranch. Altitude about 2,945 feet. Drilled by David Engel in 1955. 8-inch casing, perforated from 102 to 137 feet.

Sand	30	30
Sandy gravel	18	48
Sand, hard	12	60
Sandy gravel	10	70
Sand	12	82
Clay	5	87
Sand clay	11	98
Sand	7	105
Clay	11	116
Sand, water	8	124
Clay	2	126
Sand, water	8	134
Clay	3	137

Table 7.- Chemical analyses of waters from wells

Constituents: The sum of determined constituents is the sum of the tabulated constituents minus approximately half (50.8 percent) of the bicarbonate. Because all of the commonly occurring major constituents (except silica in many of the analyses) were analytically determined, the values for dissolved solids and sum of determined constituents should be approximately the same. All values have been rounded where necessary to conform to the standards of the Geological Survey. Numbers in parentheses are values calculated by the Geological Survey, Ground Water Branch.

Analyzing laboratory: CSW Culligan Soft Water Co., DA U. S. Department of Agriculture, Rubidoux Laboratory, Riverside, Calif., DWR State of California, Department of Water Resources, GS U. S. Geological Survey (Thompson, 1929), PH California Department of Public Health, F San Bernardino County Flood Control District.

Well number	3/4-1R3	3/4-28P1
Constituents in parts per million		
Silica (SiO_2)	17	25
Iron (Fe)		
Calcium (Ca)	13	27
Magnesium (Mg)	4.2	5
Sodium (Na)	a12	17
Potassium (K)	--	1.2
Bicarbonate (HCO_3)	68	127
Carbonate (CO_3)	0	0
Sulfate (SO_4)	12	11
Chloride (Cl)	10	4
Fluoride (F)	.7	.4
Nitrate (NO_3)	1.5	6
Boron (B)	0	0
Dissolved solids (Dis. S)	106	120
Sum of determined constituents	(104)	(103)
Hardness as $CaCO_3$	50	(88)
Percent sodium (% Na)	35	(29)
Specific conductance (micromhos at 77°F)	140	226
pH	7.2	7.9
Temperature (°F)		70
Date collected (Date)	3-13-52	7-21-54
Depth of well in feet (Depth)	--	340
Analyzing laboratory (Lab.)	F	DWR
Laboratory number (No.)	2041	4791

a. Includes potassium.

Table 7

	3/4-31B1			4/1-18E1	4/2-3Q2
Constituents in parts per million					
SiO_2					
Fe					
Ca	35	33	27	104	70
Mg	8.1	3.4	4.9	52	19
Na	a(11)	a(11)	12	128	a43
K	--	--	1.0	4.8	--
HCO_3	152	132	112	205	(110)
CO_3	0	0	0	0	
SO_4	3.5	2.4	8.1	464	82
Cl	12	5.5	12	78	92
F			.6	1.4	
NO_3			8.9	12	33
B			.04	1.7	.13
Dis. S			144	1,070	
Sum	(146)	(121)	(130)	(948)	(428)
Hardness	121	95	88	(474)	(252)
%Na	(20)	(24)	23	(37)	(27)
Micromhos	275	237	231	1,420	
pH	6.9	7.0	6.8	7.7	
°F					
Date	6-29-42	9-21-42	6-2-53	3-16-55	9-27-32
Depth	25.6	25.6	25.6	200	222
Lab.	F	F	F	F	DA
No.	26A	26B	2692	5428	6748

a. Includes potassium.

Table 7

	4/2-4E1	4/2-4Q1	4/2-16C1	4/2-22F1
Constituents in parts per million				
SiO_2				
Fe				
Ca	122	203	46	28
Mg	33	66	8	5
Na	275	625	95	55
K	6.2	12	2.3	1.5
HCO_3	151	139	102	117
CO_3	0	0	5	5
SO_4	232	456	209	65
Cl	481	1,110	33	22
F	.4	.7	3.5	.8
NO_3	2.5	2	2.0	7
B	.91	1.9	1.8	
Dis. S	1,300	2,760	511	268
Sum	(1,230)	(2,550)	(457)	(247)
Hardness	441	770	149	88
%Na	57	63	58	57
Micromhos	2,170	427	751	390
pH	8.0	7.8	8.1	8.5
^oF				
Date	1-5-54		3-5-56	6-23-54
Depth	375	505	545	855
Lab.	F	F	DA	DA
No.	2976	2549	3835	3196

Table 7

	4/3-6D1	4/3-7G1	4/3-9E1	4/3-9N1
Constituents in parts per million				
SiO_2	12			
Fe	.1			
Ca	16	51	12	9	12
Mg	10	12	3	7	4
Na	a1.9	22	9	11	10
K	--	2.5	1.2	2.2	.6
HCO_3	78	178	71	68	78
CO_3	0	0	0	5	0
SO_4	10	27	2	9	6
Cl	12	30	2	5	3
F	.18	.2	.3	.4	.2
NO_3		22	3	1.5	2
B	0	.12	.05	0	.08
Dis. S	124	301	94	92	107
Sum	(101)	(256)	(68)	(84)	(77)
Hardness	83	178	58	52	47
%Na	4.8	21	31	30	31
Micromhos	178	420	140	164	135
pH	6.7	7.8	7.5	8.7	7.6
°F					
Date	12-13-49	12-9-55	3-5-54		5-7-56
Depth	--	--	168	501	500
Lab.	F	F	F	DA	F
No.	1202	3744	3071	3482	3860

a. Includes potassium.

Table 7

	4/3-9Q1	4/3-10R1	4/3-20K1		4/3-21E1
Constituents in parts per million					
SiO_2					
Fe					
Ca	15	48	16	24	18
Mg	7	13	3	8	5
Na	13	a50	a13	10	11
K	1.4	--	--	1.8	1.6
HCO_3	90	217	85	100	93
CO_3	0			0	0
SO_4	11	38	.96	11	7
Cl	8	25	3.5	6	5
F	.4			.4	.4
NO_3	4.5	10	2.5	11	3
B	.08	.14	.01	.04	.04
Dis. S	140	--	--	149	115
Sum	(105)	(292)	(81)	(122)	(97)
Hardness	66	(326)	(52)	(93)	(66)
%Na	29	(38)	(36)	(21)	(26)
Micromhos	187	--	--	207	168
pH	7.6	--	--	7.5	7.3
°F					
Date	5-8-56	1-26-32	7-15-32	3-8-55	3-8-55
Depth	494	--	180	180	--
Lab.	F	DA	DA	DWR	DWR
No.	3861	5596	6467	8716	5424

a. Includes potassium.

	4/4-28E1	4/5-1K1		5/2-3-1	5/2-32K1
Constituents in parts per million					
SiO_2		5		38	
Fe		.5			
Ca	28	17	17	54	96
Mg	4	8.8	5	8.9	31
Na	16	a44	45	a63	64
K	.9	--	2.5	--	5
HCO_3	134	151	151	193	105
CO_3	0	0	0	0	0
SO_4	6	22	8	91	155
Cl	5	13	14	37	206
F	.2		.4		.6
NO_3	2.5	15	22	4	7.4
B	0	0	.05		
Dis. S	151	--	203		712
Sum	(130)	(200)	(189)	(392)	(617)
Hardness	86	78	62	(171)	366
%Na	28.7	(27)	60	(42)	27
Micromhos	216	341	308		1,120
pH	8.0	7.9	8.2		7.6
°F					
Date	7-20-54	9-21-42	4-1-54	8-12-12	12-1-53
Depth	709	400	400	--	350
Lab.	F	F	F	(b)	F
No.	3205	18C	3073	--	2938

a. Includes potassium.
b. From Thompson (1929).

Table 7

	5/2-32P1	5/3-3J1	5/3-11C2	5/3-15A1	5/3-18F1
Constituents in parts per million					
SiO_2				40	18
Fe				0	2.0
Ca	87	33	35	73	
Mg	23	5	6	18	
Na	66	60	66	a79	
K	3.4	2.7	2.8	--	
HCO_3	110	95	102	132	
CO_3	0	0	2	0	
SO_4	156	104	124	141	30
Cl	139	29	28	127	6.6
F	.7	1.6	3.5	1.2	
NO_3	8.4	11	5		
B	.42	.20	.48	.22	
Dis. S	538	335	398	619	
Sum	(539)	(294)	(324)	(545)	
Hardness	(312)	(102)	111	258	
%Na	(31)	(55)	56	40	
Micromhos	885	463	501	790	
pH	7.6	7.8	8.1	7.8	7.5
°F	72				
Date	3-9-55	3-9-55	4-24-56	3-21-52	3-23-55
Depth	570	115	105	260	--
Lab.	DWR	DWR	F	F	CSW
No.	5421	2427	3859	2069	10812

a. Includes potassium.

	5/3-22A1	5/3-24E3	5/3-25G1	5/3-27E1	5/3-28A1
Constituents in parts per million					
SiO_2					
Fe					
Ca	103	56	89	62	16
Mg	26	19	24	14	2.7
Na	108	84	164	78	a9.4
K	4.7	4.0	5.0	3.6	--
HCO_3	122	137	85	104	95
CO_3	0	0	0	0	
SO_4	186	134	217	167	100
Cl	219	99	269	99	44
F	1.2	1.2	1.2	.6	
NO_3	6.8	9.4	7.9	6.1	8.1
B	.20	.25	.54	.92	.64
Dis. S	866	532	879	512	
Sum	(716)	(475)	(820)	(483)	(228)
Hardness	(364)	218	(321)	(212)	(51)
%Na	(39)	45	(52)	44	(78)
Micromhos	1,260	825	1,351	730	
pH	7.6	8.1		8	
°F			72		
Date	4-15-54	12-2-53	3-9-55	3-22-55	--
Depth	267	250	180	743	--
Lab.	DWR	F	DWR	DWR	DA
No.	P-484	2936	5426	2375	6466

a. Includes potassium.

Table 7

	5/3-32D1	5/3-32L1	5/3-33Q1		5/3-35C1
Constituents in parts per million					
SiO_2			15		
Fe			.2		
Ca	62	26	41	44	143
Mg	16	8.6	15	13	37
Na	86	a4.2	a51	54	270
K	3.2	--	--	2.9	5.1
HCO_3	100	101	165	171	93
CO_3	0		0	0	0
SO_4	163	56	93	98	322
Cl	109	11	24	23	502
F	.8		0	.8	.8
NO_3	2.5	2.4	3.7	5.5	3
B	.56	.17	.06	.26	1.2
Dis. S	535		360	348	1,560
Sum	(493)	(158)	(325)	(326)	(1,330)
Hardness	(221)	(101)	167	(163)	509
%Na	(45)	(47)	(40)	41	(53)
Micromhos	878		529	542	2,400
pH			7.5	7.8	7.7
°F					
Date	3-8-55	1-20-32	3-7-44	6-2-53	2-21-56
Depth	501	304	81	81	500
Lab.	DWR	DA	DA?	F	PH
No.	5446	5563	120	2690	3797

a. Includes potassium.

	5/3-35N1	5/4-3C1	5/4-3C3	5/4-3F1	5/4-3F3
Constituents in parts per million					
SiO_2					
Fe			0		0
Ca	82	29	80	114	117
Mg	21	1	18	27	25
Na	85	165	69	160	152
K	3.0	17.6	1.2	4.9	3.0
HCO_3	114	19	254	310	268
CO_3	0	19	0	0	0
SO_4	177	238	109	294	269
Cl	151	99	70	129	163
F	.5	.8	.8	.6	.8
NO_3	3.0	0	0	0	1.0
B		.12		.26	.46
Dis. S	671	664	493	924	909
Sum	(580)	(578)	(475)	(885)	(865)
Hardness	290	75	275	396	396
%Na	39	(77)	35	46	(451)
Micromhos	935	1,170	820	1,420	1,460
pH		11.1	7.2	6.8	7.2
^oF					
Date	--	9-2-55	9-2-55	4-30-54	9-2-55
Depth	200	249	68.8	22	15
Lab.	F?	F	F	F	F
No.	3753	3677	3682	3123	3672

Table 7

	5/4-3F4	5/4-3L1	5/4-3P1	5/4-9H2	
Constituents in parts per million					
SiO_2				10	
Fe		0	0	0	
Ca	137	121	64	9.2	6
Mg	36	28	16	5.9	3.1
Na	115	126	63	a36	36
K	3.0	3.0	1.6	—	1.3
HCO_3	266	256	239	90	105
CO_3	0	0	0	6	0
SO_4	235	240	76	6	5.8
Cl	195	160	54	6	7.0
F	.8	.6	.8		.3
NO_3	1.0	1.0	8.0	6	3.0
B	.32	.54	.18	.1	0
Dis. S	962	862	441	130	134
Sum	(856)	(808)	(403)	(130)	(114)
Hardness	491	418	224	47	24
%Na	34	(39)	38	(62)	76
Micromhos	1,480	1,460	716	194	198
pH	7.1	7.6	7.2	8.0	8.5
°F					
Date	9-2-55	9-2-55	9-2-55	3-8-44	6-2-53
Depth	--	35	32	158	158
Lab.	F	F	F	F	F
No.	3671	3673	3662	129	2681

a. Includes potassium.

	5/4-9K1		5/4-9R1		5/4-10C1
Constituents in parts per million					
SiO_2	20				
Fe	.5			0	0
Ca	13	5	4.3	9	45
Mg	6.1	2	1.5	2	10
Na	a37	36	38	30	42
K	--	1.3	1.0	1.6	1.6
HCO_3	89	100	98	107	163
CO_3	6	5	0	0	0
SO_4	8.0	7	8.2	6	47
Cl	8.2	4	5	3	38
F	.6	.3	.3	.2	.4
NO_3	0	3	.5	1.0	4.0
B	0	.06	0	0	.10
Dis. S	130	124	116	85	300
Sum	(189)	(114)	(157)		(269)
Hardness	56	19	17	30	154
%Na	(59)	78	82	67	37
Micromhos	196	185	--	172	502
pH	8.2	8.7	--	7.8	7.5
°F				74	
Date	8-6-48	4-1-54	--	2-17-54	9-2-55
Depth	303	303	225	225	33
Lab.	F	F	F	DWR	F
No.	900	3074	--	5008	3659

a. Includes potassium.

	5/4-10E1	5/4-10N1		5/4-11P1	
Constituents in parts per million					
SiO_2	c12	10		17	
Fe		0		.3	
Ca	18	17	11	50	34
Mg	4.9	3	.5	11	8.2
Na	a31	a22	30	a92	a61
K	--	--	1.3	--	--
HCO_3	110	108	88	139	105
CO_3	0	4	5	0	0
SO_4	21	13	11	110	38
Cl	14	4.6	6	83	79
F			.2		
NO_3		8.1	1.0	17	4.7
B		0	0	.37	.23
Dis. S		171	153	433	317
Sum	(156)	(135)	(110)	(450)	(277)
Hardness	(65)	56	31	170	119
%Na	--	(45)	67	(54)	53
Micromhos	--	203	200	805	532
pH	--	7.0	8.3	7.2	7.8
°F					
Date	11-27-15	8-2-45	10-27-55	10-28-46	3-26-51
Depth	200	425	425	65	65
Lab.	(b)	F	F	F	F
No.	--	333	3720	533	1588

a. Includes potassium.
b. From Thompson (1929).
c. Includes SiO_2, Fe_2O_3, and Al_2O_3.

	5/4-11P2	5/4-13E1	5/4-35A2	
Constituents in parts per million				
SiO_2				
Fe				
Ca	26	21	9.0	9.4
Mg	1.2	4.2	2.1	6.9
Na	a64	58	28	a28
K	--	1.9	1.9	--
HCO_3	84	98	87	26
CO_3	0	0	0	15
SO_4	41	46	7.5	3.9
Cl	67	52.2	0	8.5
F		.7		
NO_3	13	.6	.5	4.2
B	.20	.30	.10	0
Dis. S		265		
Sum	(254)	(234)	(92)	(89)
Hardness	69	(70)	(31)	52
%Na	(67)	(63)	(64)	(54)
Micromhos	454	404	169	181
pH	8.0	7.6	7.8	8.9
°F		69		
Date	9-21-42	5-6-55	5-26-55	9-21-42
Depth	323	323	306	--
Lab.	F	DWR	DWR	F
No.	35A	P-111	2444	32A

a. Includes potassium.

Table 7

	5/4-35A3		5/4-35J1	5/4-36P1	5/5-8A1
Constituents in parts per million					
SiO_2		10	24		
Fe		0	.03		
Ca	19	11	15	9.8	27
Mg	2	5.6	7	5.7	4
Na	a13	a25	15	all	54
K	--	--	1.1	--	2.4
HCO_3	88	79	98	73	73
CO_3		14	0	0	0
SO_4	T	8.6	6	1.8	132
Cl	1.8	3.8	5	8.8	4
F			.4		.4
NO_3	T	12	0	4.2	1.0
B	.01	.30	.02	.06	0
Dis. S		111	84		
Sum	(80)	(130)	(172)	(77)	(261)
Hardness	(56)	50	(66)	48	310
%Na	(32)	(52)	(32)	(31)	(58)
Micromhos		188	159	139	439
pH		8.7	7.9	7.4	7.9
°F	60				
Date	1-7-32	10-29-45	8-12-52	9-21-42	9-19-56
Depth	--	--	405	270	300
Lab.	DA	F	DWR	F	F
No.	5422	363	2159-G	33A	--

a. Includes potassium.
T. Trace.