

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Water Resources Division

DATA ON WELLS AND SPRINGS ON
VANDENBERG AIR FORCE BASE AND VICINITY
SANTA BARBARA COUNTY, CALIFORNIA

By
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Prepared in cooperation with the
Department of the Air Force

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DATA ON WELLS AND SPRINGS ON VANDENBERG AIR FORCE BASE
AND VICINITY, SANTA BARBARA COUNTY, CALIFORNIA

By S. G. Robson

INTRODUCTION

Purpose and Scope of the Report

The data in this report were collected by the U.S. Geological Survey as a part of the water-resources investigation at Vandenberg Air Force Base, Calif. (fig. 1). This report will provide basic data for preparation of future reports to the Air Force dealing with the water resources of the base.

The scope of this report involved the collection and tabulation of all available data pertaining to wells on Vandenberg Air Force Base, the Federal Correctional Institute, and part of the adjacent Sudden Estate Co. property (fig. 2). This included the collection of well logs, water-level measurements, chemical analyses, and pumpage data. A field reconnaissance of the wells in the area was made to check the location of the wells with respect to the public-land net, and to record the depth, casing diameter, type of pumping equipment, and depth of the water surface below a known measuring point.

The work was done by the U.S. Geological Survey, Water Resources Division, under the immediate supervision of L. C. Dutcher, chief of the Garden Grove subdistrict, and under the general supervision of R. Stanley Lord, chief of the California district.

Previous and Related Investigations

Reports by Dibblee (1950), Evenson (1961), Evenson and Miller (1963), Muir (1964), Upson and Thomasson (1951), and Woodring and Bramlette (1950) that describe the geology of the Vandenberg Air Force Base and vicinity, were used in compiling the geologic map for this report (fig. 2). A report by Wilson (1959) also contains geologic information. Reports by the Geological Survey, which contain records of water-level measurements in wells on the base, are listed in table 4.

Acknowledgments

The data presented in this report were obtained, in part, from the U.S. Army Corps of Engineers, the California Department of Water Resources, and the California Division of Oil and Gas. The assistance offered by members of these organizations greatly facilitated the collection of data and contributed materially to the completeness of the report.

Location and Extent of the Area

Vandenberg Air Force Base occupies about 150 square miles in the northwestern part of Santa Barbara County, Calif. (fig. 1). The base is on the Pacific coast about 15 miles south of Santa Maria and about 5 miles west of Lompoc.

The base is adjoined by the Sudden Estate Co. property on the south and the Federal Correctional Institute on the east. Well data and geology for both of these properties are included in this report.



0 5 10 Miles

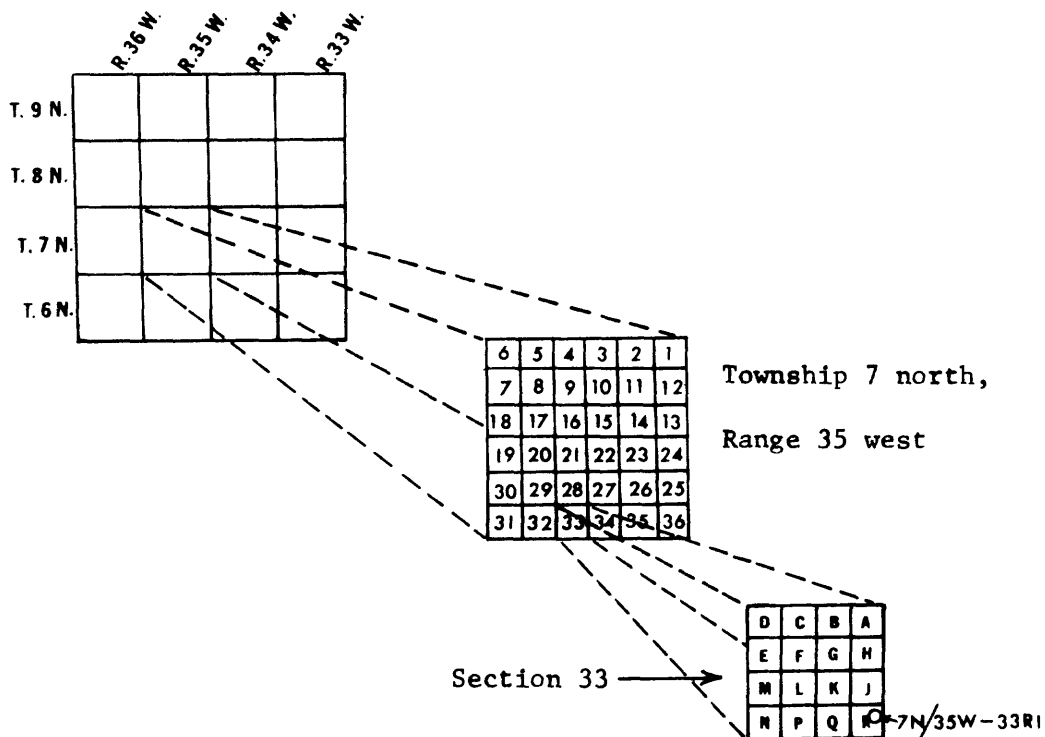
Well- and Spring-Numbering System

The well-numbering system used in this report conforms to that used by the U.S. Geological Survey in California since 1940. It has been adopted as official by the California Department of Water Resources and by the California Water Quality Control Board.

Wells are assigned numbers according to their location in the rectangular system for the subdivision of public land. As shown in the diagram below, the part of the number preceding the slash (as in 7N/35W-33R1) indicates the township (T. 7 N.); the part of the number between the slash and the hyphen indicates the range (R. 35 W.); the number following the hyphen indicates the section (sec. 33); the letter following the section number designates the 40-acre subdivision of the section. Within each 40-acre tract the wells are numbered serially as indicated by the final digit. Thus, well 7N/35W-33R1 is the first well to be listed in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 33.

Numbers assigned to springs and seeps are differentiated from those assigned to wells by the letter "S" as in 5N/35W-1BS1.

Well numbers which contain the letter "Z" (as in 7N/35W-31Z1) were assigned to those wells which were plotted from reported location descriptions that could not be verified by a field check.



GEOLOGIC UNITS AND THEIR WATER-BEARING PROPERTIES

The geologic units which crop out on Vandenberg Air Force Base and vicinity, as shown in figure 2, can be grouped into two categories: Consolidated rocks and unconsolidated deposits. The consolidated rocks consist of igneous, metamorphic, and sedimentary rocks, all of pre-Tertiary and Tertiary age. These rocks contain small quantities of ground water. The unconsolidated deposits consist of the Careaga Sand of Pliocene age, the Paso Robles Formation of Pliocene and Pleistocene(?) age, the Orcutt Sand and terrace deposits both of Pleistocene age, and alluvium, landslides, and windblown sand all of Recent age. These unconsolidated sedimentary deposits contain most of the usable ground water present in the area.

Consolidated Rocks

Igneous and Metamorphic Rocks

The oldest consolidated rocks are the igneous and metamorphic rocks of the Franciscan Formation of Jurassic and Cretaceous age and the igneous and metamorphic rocks of probable Tertiary age. These rocks, exposed near Point Sal and in the southern extremity of the base, underlie the younger formations and generally are not considered as a source of ground water. However, small quantities of ground water may be present in fractures and deeply weathered zones.

Sedimentary Rocks

Consolidated sedimentary rocks of pre-Tertiary and Tertiary age are exposed over much of Vandenberg Air Force Base and the Sudden Estate Co. property. The sedimentary rocks consist of conglomerate, sandstone, siltstone, mudstone, shale, diatomite, and limestone. They yield small to moderate quantities of ground water from fractures.

Tejon Formation

Matilija Sandstone Member of Kerr and Schenck (1928).---This unit, of Eocene age, crops out in the Santa Ynez Mountains near the southern boundary of the base. Here it is about 300 feet thick and consists of white, medium sandstone with some conglomerate. In some areas the sandstone yields small quantities of water to springs and wells.

Cozy Dell Shale Member of Kerr and Schenck (1928).---This unit, of Eocene age, consists of gray and brown marine shale interbedded with thin beds of sandstone. The shale is exposed in the southern part of the base. It probably does not contain usable quantities of ground water.

Vaqueros Sandstone

The Vaqueros Sandstone, of Miocene age, is exposed in the western part of the Santa Ynez Mountains near Tranquillon Mountain. Here the formation consists of about 75 feet of brown, coarse to medium marine sandstone, and conglomerate. The formation also has been penetrated at depths of 600 to 1,000 feet in oil wells drilled near Point Arguello (Evenson, 1961, p. 27).

Several springs discharge from the Vaqueros Sandstone, indicating that it may yield moderate quantities of water to wells.

Tranquillon Volcanics of Dibblee (1950)

The Tranquillon Volcanics of Dibblee (1950), of Miocene age, are exposed on Tranquillon Mountain and the surrounding area. This formation is as much as 1,200 feet thick and is composed of rhyolite, rhyolitic agglomerate, and tuff. Fractures within this formation yield small quantities of water to springs.

Unconsolidated Deposits

Careaga Sand

The Careaga Sand is a fine to medium marine sand of Pliocene age. It is loosely consolidated and contains some silt and an abundance of well-rounded pebbles in the upper part of the formation. The main outcrop occurs north of the Purisima Hills, where it is about 1,400 feet thick. Though the Careaga Sand yields water to wells, few wells are perforated in it because fine sand and silt tend to enter the wells through the perforations. Properly constructed wells, however, probably could eliminate this problem and yield sufficient quantities of water to meet most needs.

Paso Robles Formation

The Paso Robles Formation, of Pliocene and Pleistocene(?) age, is exposed near the east boundary of the base in the San Antonio Valley. The formation in this area is about 2,000 feet thick and is composed of loosely consolidated beds of gravel, sand, silt, and clay, with occasional beds of fresh-water limestone in the lower part of the formation. The sand is usually crossbedded, poorly sorted, and includes stringers of coarse sand and gravel. The formation has a low permeability and does not yield water to wells as readily as does the alluvium. Nevertheless, it can be a major source of ground water if a saturated zone of sufficient thickness is penetrated.

Orcutt Sand

The Orcutt Sand, of Pleistocene age, consists of gravel and sand with lenses of silt and clay. This formation is principally of continental origin but contains some marine beds. It has a maximum thickness of about 200 feet near the Santa Ynez River. The sand is exposed over much of the base and rests unconformably on the Paso Robles and older formations. Because the Orcutt Sand is moderately porous, it contains large quantities of water in the strata below the zone of saturation. However, the clay and silt lenses within the formation restrict ground-water movement; thus, wells perforated in this formation may yield only moderate quantities of water.

Terrace Deposits

Terrace deposits of Pleistocene age were deposited on marine and stream terraces and are exposed on the base and along the coastal part of the Sudden Estate Co. land. These deposits are composed of moderately permeable, crossbedded gravel, sand, silt, and clay and have a maximum thickness which probably does not exceed 75 feet. Most of the terrace deposits are above the zone of saturation and are not a source of ground water.

Alluvium

Most of the valleys and their tributary canyons are underlain by alluvium of Recent age. The alluvium, ranging in thickness from 0 to about 200 feet, is made up of gravel, sand, silt, and clay. In most areas the alluvium, which yields water freely to wells, is one of the main water-bearing deposits.

In San Antonio Valley the alluvium averages about 80 feet in thickness, the lower two-thirds of which is saturated throughout most of the valley. The alluvium is completely saturated in the areas of ground-water discharge in Barka Slough. Logs from test wells 8N/35W-10J1, 15E3, and 16E1 indicate that the alluvium in the western end of San Antonio Valley contains much clay. Thus, wells constructed in this part of the Valley will probably yield less water than wells that tap the alluvium near Barka Slough.

The alluvium in the Lompoc plain is the most productive source of water in the area. Near Vandenberg Air Force Base the alluvium, which is about 200 feet thick, contains an upper and lower member (Wilson, 1959, p. 6). The upper member consists of clay and silt with some sand; the lower member consists of cobbles, gravel, and sand. The lower member, about 100 feet thick, is the main water-bearing zone. The static water level ranges from about 3 to 20 feet below land surface. Beds of clay in the upper member range from 10 to 60 feet in thickness and tend to retard the downward movement of ground water.

Windblown Sand

Windblown sand, of Recent age, extends inland from the coast and covers parts of the Lompoc Terrace, Burton Mesa, San Antonio Terrace, and the coastal area north of Point Sal. The windblown sand is most extensive on San Antonio Terrace and Burton Mesa, where it has formed dunes of three different types--young, mature, and old. The young dunes migrate and support little or no vegetation; the mature dunes are usually anchored by vegetation and are well preserved. The old dunes are also anchored by vegetation but have lost their distinctive shape.

The sand has a maximum thickness of about 100 feet and, for the most part, lies above the zone of saturation. Thus, only small perched water bodies within the sand could yield water to wells.

Landslide Deposits

Landslide and earthflow debris of Recent age is common in the Point Sal area and in the mountainous region at the southern end of the base. These deposits are composed of rock debris which overlies the consolidated formations. Seeps and springs sometimes occur along the lower edge of the landslides, because the debris is more permeable than the underlying formations. Development of some of these springs might yield enough water to meet limited domestic needs in the area.

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- Upson, J. E., and Thomasson, H. G., Jr., 1951, Geology and water resources of the Santa Ynez River basin, Santa Barbara County, California: U.S. Geol. Survey Water-Supply Paper 1107, 194 p.
- U.S. Geological Survey, 1943-57, Water levels and artesian pressure(s) in observation wells in the United States . . . part 6, Southwestern States and Territory of Hawaii: Water-Supply Papers 941, 282 p.; 949, 344 p.; 991, 305 p.; 1021, 302 p.; 1028, 301 p.; 1076, 316 p.; 1101, 316 p.; 1131, 288 p.; 1161, 298 p.; 1170, 279 p.; 1196, 222 p.; 1226, 237 p.; 1270, 253 p.; 1326, 262 p.; 1409, 280 p.
- _____, 1957-64, Water levels in observation wells in Santa Barbara County, California [1956-] 1963: U.S. Geol. Survey open-file rept., 33 p. and apps.
- Wilson, H. D., Jr., 1959, Ground-water appraisal of Santa Ynez River basin, Santa Barbara County, California, 1945-52: U.S. Geol. Survey Water-Supply Paper 1467, 119 p.
- Woodring, W. P., and Bramlette, M. N., 1950, Geology and paleontology of the Santa Maria district, California: U.S. Geol. Survey Prof. Paper 222, 185 p.

Table 1.--Records of wells and springs

USGS well number: The number given is the U.S. Geological Survey number assigned to the well or spring according to the method described in the section on well and spring numbering.

Other numbers and source of data: The source of data for each line is indicated by the following symbols: CE U.S. Army Corps of Engineers; D driller; DWR California Department of Water Resources; GS U.S. Geological Survey; LRI Leeds, Hill, Barnard, and Jewett, Consulting Engineers; O owner; OG California Division of Oil and Gas; PCE Pacific Gas and Electric Co.; POA Porter, O'Brien, and Armstrong, Consulting Engineers; USAF U.S. Air Force. For other well numbers see table 2.

Date of observation: The date given is the date on which the well was canvassed.

Owner or user: The name given is that of the apparent owner or user of the well on the date indicated.

Year completed: The year given is the date the well was completed and was obtained from the driller's log or was reported by the owner or others.

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

Type and diameter: The type of well construction is indicated by the following letters: A auger; C cable tool; D dug; R rotary. The number following the letter is the diameter of the casing or the largest dimension of a cribbed pit, in inches; if the well is not cased or cribbed, the symbol N is used.

Type of pump and power: The type of pump or method of lift is indicated by the following letters: C centrifugal; J jet; L lift; N none; S submersible; T turbine. The type of power is indicated as follows: E electric motor of undetermined horsepower. A number appearing in this column indicates the electric motor horsepower rating; G gasoline engine; H hand; N none; W wind.

Yield: The value given, in gallons per minute (gpm), is the estimated yield of a spring, or the measured yield of a well, usually based on tests performed by the driller or others and is not necessarily the maximum capacity of the well or installed pump.

Use: The use of the well or spring is indicated by the following letters: Dm domestic; Ds destroyed or dry; Ir irrigation; O observation; Ps public supply; Rc road construction; S stock; T test; Un unused.

Measuring point: The point from which water-level measurements by the Geological Survey are made is described as follows: Bhc bottom of hole in casing; Hpb hole in pump base; Lsd land-surface datum; Na no access into casing; Tap top of access pipe; Tc top of casing; Tcc top of casing cover; Tf top of flange. The distance of the measuring point above or below (-) land-surface datum is given in feet and tenths of a foot, and sometimes hundredths of a foot.

Altitude: The altitude given is that of land-surface datum. Land-surface datum is an arbitrary plane that closely approximates land surface and is established at the time of the first measurement. It is a fixed plane of reference for all subsequent measurements. Altitudes given to the nearest foot were interpolated from topographic maps having 40-foot contour intervals. Altitudes given to the nearest tenth or hundredth of a foot are surveyed altitudes.

Water level: Measured depths to water are given in feet, tenths of a foot, and hundredths of a foot, or in feet and tenths of a foot; reported or approximate depths to water are given in whole feet. The distance between land-surface datum and the measuring point has been subtracted from, or added to, the measured water level. Thus, all water levels are referenced to land-surface datum. Water levels with a plus (+) symbol are above land-surface datum.

Other data: C chemical analyses of water from wells and springs are given in table 5; E electric log of well is available; L log of well is given in table 6; La log of well is available; P metered pumpage from well is given in table 7; T pumping tests of well is given in table 8; W water-level measurements are given in table 3; Wp water-level measurements are published in the references listed in table 4.

USGS well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point		Altitude of lsd (feet)	Water level below lsd (feet)	Other data
										Description	Distance from lsd (feet)			
T. 5 N., R. 34 W.														
5/34-7E1	GS	4-19-66	Sudden Estate Co. (SEC)		0.8	D 21	N N N	0.5	S	Tc	0	500	0.20	
7E2	GS	4-19-66	SEC		1.9	D 54	N N N		S	Tc	0	510	.75	C
7E3	GS	4-19-66	SEC		2.0	D 30	N N N		S	Tc	0	500	.95	
T. 5 N., R. 35 W.														
5/35-1BS1	GS	4-19-66	SEC			N N N	N N N		Un			1,130	Flowing	
1F1	GS	4-19-66	SEC		3.0	D 300	N N N		Dm,S	Lsd	0	1,000	1.0	C
1J1	GS	4-19-66	SEC		1.0	D 24	N N N	.5	S	Tc	0	880	.82	
1NS1	GS	1960	SEC									400	Flowing	C
2DS1	GS	1960	SEC									320	Flowing	C
12B1	GS	4-19-66	SEC		1.5	D 41	N N N	2	S	Tc	0	350	1.18	
12CS1	GS	4-19-66	SEC			N N N	N N N		Un			460	Seep	
12F1	GS	4-19-66	SEC		1.7	D 24	N N N	.35	S	Tc	0	250	.88	
12GS1	GS	4-19-66	SEC			N N N	N N N		S			290	Seep	
12Z1	GS	4-20-66	Union Oil Co.	1936	2,221	R			Ds			300		
T. 6 N., R. 34 W.														
6/34-31E1	GS	4-19-66	SEC		3.8	D 42	N N N		S	Tc	1.0	1,440	2.49	
T. 6 N., R. 35 W.														
6/35-2D1	GS	4-27-66	U.S. Air Force (USAF)		443.6	8	N N N		Un	Na		240		C,L,T,W
	D	7- 8-58	U.S. Navy (USN)	1958	475	C 8	N N N	20	T	Tc	1.8		215.85	
4Z1	GS	4-20-66	Texaco Inc.	1955	4,696	R 12	N N N		Ds			631		E
		12-26-55							Un					
5F1	GS	4-26-66	USAF	1958	77	C 8	N N N	4.1	Ds			230	25	L, W
	GS	5-29-58	USN						T	Tc	1.4			
5RS1	GS	4-26-66	USAF			N N N	N N N	.5	Un			440	Flowing	

USGS well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point Description Distance below or above lsd (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 6 N., R. 35 W.--Continued													
6/35-821	GS OG	4-20-66 1-18-37	Top Row Oil Co.	1937	1,302	C 10	N N		Ds Un		780	165	L
921	GS OG	4-20-66 7- 5-55	MJM & M Oil Co.	1955	6,241				Ds		875		E
13C1	GS	4-27-66	USAF		7.8	D 42	N N		Un	Tc 2.0	1,240	4.41	
15J1	GS GS	4-28-66 6- 6-58	USAF USN	1958	77.0 78	C 8	N N N N		Un T	Tc 1.5 Tc 1.5	585	19.12 20.5	C, L, W
16P1	GS GS	4-28-66 6-12-58	USAF USN	1958	76	C 8	N N	10	Ds T	Tc 1.0	400	19	C, L, W
16Z1	GS OG	4-20-66 6-12-54	Stansbury-Webb & G. J. Greer	1954	5,558	R 12	N N		Ds Un		483		E
19FS1	GS	5-10-66	SEC				N N		Un		1,280		Seep
19P1	GS	5-10-66	SEC		1.0	D 20	N N		S	Tc 0	760		Flowing
19R1	GS	5-10-66	SEC		.6	D 24	N N		S	Lsd 0	1,180		Flowing
20P1	GS	5- 9-66	SEC		1.07	D 16	N N		S	Tc 0	1,160	.34	
20P2	GS	5- 9-66	SEC		2.78	D 43	N N		S	Tc 0	1,160	.94	
21D1	GS GS	4-28-66 6-16-58	USAF USN	1958	59	C 8	N N	5	Ds T		380	16	L, W
22AS1	GS	4-28-66	USAF				N N	1	Un	Tc 1.0	760		Flowing
22J1	GS	4-29-66	USAF		12.7	D 120			Ps	Tc 2.0	1,640	6.16	C
25Q1	GS	4-19-66	SEC		2.0	D 36	N N		S	Tc 0	1,440	.61	
27E1	GS	4-20-66	SEC		1.0	D 36	N N		S	Tc 0	1,030	.12	
28C1	GS	5- 9-66	SEC		1.0	D 45	N N		S	Tc 0	920	.50	C
28CS1	GS	5- 9-66	SEC				N N		S		1,200		Seep
28J1	GS	4-20-66	SEC		2.0	D 36	N N		S	Tc .5	820		Flowing

USGS well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point		Altitude of well (feet)	Water level below (feet)	Other data
										Description	Distance from well (feet)			
T. 6 N., R. 35 W.--Continued														
6/35-29A1	GS	5- 9-66	SEC		0.95	D 30	N N		S	Tc	0	1,180	0.58	
29A2	GS	5- 9-66	SEC		.90	D 30	N N		Un	Tc	0	1,000	Flowing	
29FS1	GS	5- 9-66	SEC				N N N		S			800	Seep	
30MS1	GS	1960	SEC									360	Flowing	C
30Z1	GS	4-20-66	Gulf Oil Corp.						De			738		E
	OG	8-23-48		1948	2,009	R 11	N N		Un					
31M1	GS	4-27-66	U.S. Coast Guard	1936	194	R 12	S E		Un	Tc	1.0	74	61.58	C, L, W
	GS	1-17-44					T 5			Hpb	1.0			
	GS	7-10-42					L G			Bhc	.65			
35A1	GS	4-20-66	SEC		2.0	D 64	N N		S	Tc	0	1,050	1.88	
35C1	GS	4-20-66	SEC		2.5	D 60	N N		S	Tc	0	1,400	1.78	
35D1	GS	4-20-66	SEC		1.0	D 24	N N	1	S	Tc	0	1,120	Flowing	
35MS1	GS	4-20-66	SEC			N N	N N		S			860	Seep	
35KS1	GS	4-20-66	SEC			N N	N N		S			1,220	Seep	
36AS1	GS	4-19-66	SEC			N N	N N		S			1,400	Seep	
36M1	GS	4-20-66	SEC		1.0	D 25	N N	2	S	Tc	0	620	Flowing	
36MS1	GS	4-20-66	SEC			N N	N N		S			670	Seep	
36MS2	GS	4-20-66	SEC			N N	N N		S			550	Seep	
T. 6 N., R. 36 W.														
6/36-1Z1	GS	4- 5-66	USAF						De			313.4		L
	CE	10-21-64		1964	34	A	N N N		T				Dry	
1Z2	GS	4- 5-66	USAF						De			304.3		L
	CE	1- 7-65		1965	30	A	N N N		T				Dry	
1Z3	GS	4- 5-66	USAF						De			323.7		L
	CE	1- 8-65		1965	40	A	N N N		T				Dry	

USGS well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point		Altitude of lsd (feet)	Water level below lsd (feet)	Other data
										Description	Distance below lsd (feet)			
T. 6 N., R. 36 W.--Continued														
6/36-1221	GS CE	4- 5-66 12-29-64	USAF	1964	182	R N N	N N N		Ds T			496.3		L
1222	GS CE	4- 5-66 12-29-64	USAF	1964	120	A N N	N N N		Ds T			413.4	Dry	L
1321	GS CE	4- 5-66 12-10-64	USAF	1964	172		N N N		Ds T			459.1		L
1322	GS CE	4- 5-66 12-10-64	USAF	1964	50	A N N	N N N		Ds T			313.0	Dry	L
1323	GS CE	4- 5-66 12-13-64	USAF	1964	53	A N N	N N N		Ds T			352.6	Dry	L
1324	GS CE	4- 5-66 12-17-64	USAF	1964	40	A N N	N N N		Ds T			334.7	Dry	L
1325	GS CE	4- 5-66 12-21-64	USAF	1964	175	R N N	N N N		Ds T			474.4		L
1326	GS CE	4- 5-66 1-13-65	USAF	1965	40	A N N	N N N		Ds T			314.3	Dry	L
1327	GS CE	4- 5-66 1-19-65	USAF	1965	35	A N N	N N N		Ds T			353.5	Dry	L
1421	GS CE	4- 5-66 12-17-64	USAF	1964	52	A N N	N N N		Ds T			162.5	Dry	L
23R1	GS D	5- 2-66 1924	USAF	1924	135	8			Ds Un	Lsd	0	346	120	C, L
23R2	GS GS CE	4-27-66 12- 3-59 12-30-43	USAF U.S. Army (USA)	1943	174	12 T	7.5	215	Un S Ps	Hpb Tc	2.0 2.0 -1.5	346.8	158.24 158.30 132.3	C, L, T
23Z1	GS CE	4- 5-66 12-16-64	USAF	1964	30	A N N	N N N		Ds T			400.5	Dry	L
24J1	GS	5-10-66	USAF		3.2	D 29	N N N		Un	Tc	0	800	.79	
24Z1	GS O	4- 5-66 6- 3-53	Amerada Petroleum Corp.	1953	1,884	R 12	N N N		Ds Un			590		E

USGS well number	Other numbers and source of data	Date of observa- tion	Owner or user	Year com- pleted	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point		Altitude of ltd (feet)	Water level below ltd (feet)	Other data
										Description	Distance below ltd (feet)			
T. 6 N., R. 36 W.--Continued														
6/36-2422	GS CE	4- 5-66 12-10-64	USAF	1964	80	A N N N	N N N		Ds T			458.3	Dry	L
2423	GS CE	4- 5-66 12-21-64	USAF	1964	42	A N N N	N N N		Ds T			369.0	Dry	L
2424	GS CE	4- 5-66 1-22-65	USAF	1965	50	A N N N	N N N		Ds T			401.7	Dry	L
25H1	GS	5-10-66	SEC		4.0	D 70	N N N	10	S	Tc	0	510	Flowing	C
25Z1	GS OG	4- 4-66 4- 9-48	Intex Oil Co.	1948	2,513	R 12	N N N		Ds Un			440		E
25Z2	GS CE	4- 5-66 1-12-65	USAF	1965	49	A N N N	N N N		Ds T			488.1	Dry	L
25Z3	GS CE	4- 6-66 1-13-65	USAF	1965	120	R N N N	N N N		Ds T			629.6		L
25Z4	GS CE	4- 5-66 1-20-65	USAF	1965	130	N N N N	N N N		Ds T			659.8		L
26C1	GS	4-27-66	USN		476	12 S	S 3	3	Ps	Tcc	3.0	170	a109.67	T
26E1	GS GS	4-27-66 3-13-41	USN	1940	452.2 476	R 12	N N L	N 5	Un Un	Tc Tc	.1 .5	150	105.86	C, L, T, W
26G1	GS GS	4-27-66 8-28-45 3-13-41	SEC	1927	220.2 220	R 8	N N J	N 3	Un S	Tc	1.0	390	103.81	C, T, W
26G2	GS O	4- 5-66 6- -25	Hollywood Oil Co.	1925	1,218	R			Ds			330		La
26Z1	GS CE	4- 5-66 1- 8-65	USAF	1965	50	A N N N	N N N		Ds T			280	Dry	L
26Z2	GS CE	4- 5-66 1-11-65	USAF	1965	30	A N N N	N N N		Ds T			468.9	Dry	L
35Z1	GS O	5- 4-66 10-26-29	Standard Oil Co.	1929	2,013	12	N N N		Ds Un			125	Flowing	La
36Z1	GS OG	4- 4-66 4-23-48	Intex Oil Co.	1948	2,507	R 12	N N N		Ds Un			68		E

See footnotes at end of table.

USCS well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point Description Distance below or above (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 6 N., R. 36 W.--Continued													
6/36-3622	GS OG	4- 4-66 8- 2-48	Gulf Oil Corp.	1948	2,284	R 11	N N N		Ds Un		98		E
T. 7 N., R. 34 W.													
7/34-5K51	GS	4-28-66	USAF				N N N		Un		320	Flowing	C
7Z1	GS USAF	4- 5-66 7-15-58	USAF	1958	60	N	N N N		Ds T		130		L
17Z1	GS OG	4- 5-66 1933	Lompoc Petroleum Co.	1933	4,061				Ds		180		
18L1	GS	4-25-66	Federal Correctional Institute (FCI)						Ds		60.19		Wp
18L2	GS GS GS GS	4-25-66 11-12-41 10-28-41 10- 1-41	Santa Barbara County	1941	25.0		L W		Un	Tc -0.5		1.89	
18L3	GS GS	4-25-66 1- 5-43	FCI USA		72				Ds Un	Tc .6 Tc .6 Tc .6	60	5.20 5.16 5.16	L, Wp
19H1	GS GS GS	4-26-66 2-27-43 6-24-41	FCI USA USA	1900	110 110.0		L 5 L W		Ds Dm Dm, S	Tc .2 Tc 1.5	112.91	63.39 60.40	Wp
19J1	GS FGE	4-25-66 11- 1-55	USAF USA	1941	182	R 18	T 25	608	Ps Ps	Tap 1.0	61	56.57	C, L, P, T, W
19J2	GS GS	4-26-66 10-13-41	FCI USA	1917	101	8	L G		Ds Dm		70	16	C
19J3	GS USAF USAF CE	4-26-66 12-21-62 6- 8-62 5-12-59	USAF	1959	161	R			Ps	Tap 1.0	60	a79.0 50 49 35.0	C, E, L, P
19J4	GS	4-26-66	FCI			12	T 25		Ir	Tc 0	60	46.8	
19L1	GS GS	4-26-66 10-13-41	FCI USA	1941	135.8 180	R 18	N N N		Un Un	Tc .8 Tc .8	50	24.21 11.05	L

USGS well number	Other numbers and source of data	Date of observa- tion	Owner or user	Year com- pleted	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point		Altitude of ltd (feet)	Water level below ltd (feet)	Other data
										Descrip- tion	Distance from ltd (feet)			
T. 7 N., R. 34 W.--Continued														
7/34-19L2	GS USAF USAF CE	4-25-66 12-31-62 6- 8-62 5-17-59	USAF			R 14	T 75		Ps	Tap	1.0	60	a95.4 31 31 18	C, E, L, P
19Q1	GS D	4-26-66 4-14-59	USAF	1959	156		T		Un	Tc	2.0			
19Z1	GS CE	5- 9-66 5- 4-59	USAF	1959	180	R N	N N N		Ds T			60		E, L
20C1	GS	4-28-66	FCI		96.3	12 L	L W		S	Tc	2.0	78	26.32	
20J1	GS GS	4-21-66 10-13-41	FCI USA	1905	62.0	R 6	L W		Ds Dm	Tf	1.2	75.83	15.23	Wp
20K1	GS GS	4-20-66 1941	FCI USA	1924	153	12			Ds Un			72		L
20K2	GS GS	4-20-66 10-13-41	FCI USA	1920	28.8 140	12	T 25		Ds Ir	Tc Tc	1.3 1.3	75	Dep. 13.91	
20K3	GS GS	4-20-66 10-13-41	FCI USA		42.0	6 L	L H		Ds Dm	Tc	1.0	75	17.66	
20K4	GS PGE GS GS	4-20-66 11- 1-55 5- 4-42 10-13-41	FCI USA	1941	144.5	R 18	N N T 60 T 60	1,130 1,600	Un Ps	Tc Tc	1.0 1.0	75	b51.29 29.8	C, L, P, T
20K5	GS USAF USAF D	4-20-66 6-21-62 6- 6-62 12- 1-58	USAF		186				Ps	Tc	1.0		15.7	
							T 60		Ps	Tap	1.5	75	a68.9 44.5 43.5 20.0	C, L, P, T
20L1	GS USAF USAF CE	4-20-66 12-21-62 6- 8-62 4- 8-59	USAF	1958	177	R 14	N N T 75	2,100	Un Ps	Tc Tap	2.0 1.0	80	a64.4 48 48 35.0	C, E, L, P, T
20M1	GS GS	4-21-66 10-14-41	FCI USA	1936	159.0	12 N	N N	2,050	Un Ds Un	Tc		70	17.49	
20M2	GS CE	4-21-66 11- 4-41	USAF USA	1941	192 197	R 18	T 60	1,600 1,770	Ps Un	Hpb Lsd	1.0 0	70	a93.9	C, L, P, T, W

See footnotes at end of table.

USGS well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point		Altitude of land (feet)	Water level below land (feet)	Other data
										Description	Distance below land (feet)			
T. 7 N., R. 34 W.--Continued														
7/34-20N1	GS GS	4-21-66 5- 5-41	FCI USA	1926	90.3	6	L		Ds Un	Tc	1.8	67.50	11.0	L,Wp
20N2	GS	4-20-66	FCI	1962	40.4	A	1½ N	N	Un	Tc	3.3	50	14.22	C,L,W,Wp
20N3	GS	4-20-66	FCI	1962	38.4	A	1½ N	N	Un	Tc	5.3	62	22.96	C,L,W,Wp
20R1	GS CE	4-21-66 4-25-59	FCI	1959	177	14	T	940	Ir Un	Hpb Tc	2.0 2.0	75	a78.4 26	C,E,L,T
21E1	GS GS	4-20-66 11-19-48	FCI USA	1948	119.5 145	C	8 N N N	17	Un Un	Tc Tc	1.1 1.1	82	30.22 19.50	C,L,W,Wp
21J1	GS GS D	4-21-66 4-13-41 1-20-30	FCI Union Oil Co.		63.5 80	R	12 T G	375	Ir	Tc Tc	4.0 .1	75.83	23.37 7.25 12	C,L,T,Wp
21J2	GS	4-21-66	FCI	1966			T 15		Ir	Tap	.5	80		
21N1	GS GS	4-21-66 6-27-41	FCI USA	1925	80	R	12 T T	800	Ir Ir	Hpb Tc	1.0 0	81.32	33.79 16.74	C,L,Wp
21N2	GS GS	4-21-66	FCI USA	1925	140	R			Ds			82		L
21N3	GS GS	4-21-66	FCI			1½	N N		Ds Un			60		Wp
21N4	GS GS	4-21-66	FCI			1½	N N		Ds Un			60		Wp
21N5	GS GS	4-21-66	FCI			1½	N N		Ds Un			58		Wp
21P1	GS GS	4-21-66	FCI			1½	N N		Ds Un			60.5		Wp
21Z1	GS 0	4- 5-66 5-24-55	Texaco Inc.	1955	2,722	R	12 N N		Ds Un			80		E
22E1	GS GS	4-21-66 6-28-49	FCI	1948	87.7 97	R	8 L L W	10	Un S	Tc Tc	2.0 2.0	100	46.91 38.16	C,L
29A2	GS DWR	4-21-66	FCI			1½			Ds			54		Wp

See footnote at end of table.

USGS well number	Other numbers and source of data	Date of observa- tion	Owner or user	Year com- pleted	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point		Altitude of land (feet)	Water level below land (feet)	Other data
										Descrip- tion	Distance below(-) land (feet)			
T. 7 N., R. 34 W.--Continued														
7/34-29A3	GS	4-21-66	FCI				T E		Dm	Na		80		Wp
29A4	GS	4-21-66	FCI	1959	190	R	N N N		Ds			70		E, L
	GS	12-11-59	USA						T					
T. 7 N., R. 35 W.														
7/35-121	GS USAF	4- 5-66 7-15-58	USAF		60		N N N		Ds			430		L
122	GS USAF	4- 5-66 7-15-58	USAF		36		N N N		Ds			440		L
421	GS POA	4- 5-66 11- 9-62	USAF	1962	101	R	N N N		Ds			336.8		L
521	GS O	4- 5-66 8- 5-29	Standard Oil Co.	1929	2,661	R	24 N N		Ds			320		La
621	GS OG	4- 5-66 8-24-53	Murphy Bros., Ltd.	1953	1,821	R	9 N N		Ds			50		E
821	GS CE	4- 5-66 5-17-60	USAF	1960	201	R	N N N		Ds			169	148	L
1021	GS OG	4- 5-66 10-30-28	Anglo-Californian Oil Syndicate	1909	3,490				Ds			400		
1121	GS OG	4- 5-66 10- 1-30	W. H. Taylor	1930	5,587	R	24 N N		Ds			370		La
1122	GS OG	4- 5-66 12-10-53	Walter F. Parker	1953	1,773	R	12 N N		Ds			370		E
1221	GS OG	4- 5-66 10-30-28	Anglo-Californian Oil Syndicate	1909	2,100				Ds			360		
13N1	GS GS	4-25-66 4-24-41	USAF USA		56.5	16	L W		Ds	S Tc	0.7	46.50	5.02	C, Wp
15P1	GS GS	9-15-65 4-24-41	USAF USA		45.8	6	L W		Ds	Tc	.16	25.60	10.13	Wp
15R1	GS GS	9-15-65 4-24-41	USAF USA		43.4	6	L W		Ds	Tc	.97	30.37	5.28	Wp

USGS well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point Description Distance below (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 7 N., R. 35 W.--Continued													
7/35-16F1	GS GS	4-21-66 USA	USAF USA	1925	60		N N		Ds T		13		L
16G1	GS GS	4-21-66 4-24-41 USA	USAF USA		46.0	10	L W		Ds Un	Tc 0	18.20	6.10	C, Wp
16N1	GS GS	4-21-66 1925 Packard Ranch	USAF	1925	116		N N	200	Ds T	Lsd 0	17	3	L
17B1	GS GS	4-21-66 4-24-41 USA 1926 Packard Ranch	USAF USA		31.5 45	12	L W		Ds Ds,S	Tc 0	25.68	14.95	C,L,Wp
17B2	GS	4-21-66 USAF	USAF						Ds		24.1		Wp
17K1	GS GS GS GS	4-21-66 12- 1-65 10-29-65 9-27-65	USAF USA	1965	186.7	C 8	N N		Un	Tc 3.0 Tc 3.0 Tc 3.0 Tc 3.0	10	2.17 1.34 2.60 2.92	C,L
17M1	GS DWR	4-20-66 4- 8-65	USAF	1964	165.0	C 8	N N	18	O	Tc 1.75	9.74	3.22	C,L,W
17Z1	GS LBJ	4- 5-66 10-17-41 USA	USAF USA		36		N N		Ds T		10		L
17Z2	GS LBJ	4- 5-66 10-17-41 USA	USAF USA		36		N N		Ds T		10		L
17Z3	GS LBJ	4- 5-66 10-17-41 USA	USAF USA		38		N N		Ds T		10		L
17Z4	GS LBJ	4- 5-66 10-17-41 USA	USAF USA		36		N N		Ds T		10		L
18H1	GS	4-21-66 Santa Barbara County	Santa Barbara County	1943	111.5	C 9	N N	70	O	Tc 4.0	5.87	1.78	C,L,T,W,Wp
18H2	GS GS	4-21-66 7-15-64 V.S. Geol. Survey	V.S. Geol. Survey	1964	187.8 192	C 8	N N	100	O	Tc 1.86	7.23	3.07	C,L,W
18J1	GS GS	4-21-66 4-18-41 Santa Barbara County	Santa Barbara County	1927	111.2	R 10	C E		Dm Un	Tc 2.45	6.20	1.37	C,L,Wp
18J2	GS	4-21-66 Santa Barbara County	Santa Barbara County	1963	121.7	C 9	N N	60	Un	Tc 4.0	7.38	3.86	C,L,T,W,Wp

USGS well number	Other numbers and source of data	Date of observa- tion	Owner or user	Year com- pleted	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point		Altitude of ltd (feet)	Water level below ltd (feet)	Other data
										Descrip- tion	Distance below ltd (feet)			
T. 7 N., R. 35 W.--Continued														
7/35-20H1	GS GS D	4-22-66 10-28-42	USAF USA N. Huyck		17.5 133	R 12	N N N		Ds Un	Tc	0.8	17.80	2.97	L,Wp
20J1	GS GS D	4-28-66 5- 1-41 6-18-28	USAF USA USA	1928	20.5 108.0 125	6 6	N N W		Un Un	Tc Tc	.67 1.0	19.07	6.26 7	C,L,W,Wp
20J2	GS GS	4-21-66 5- 1-41	USAF USA		5.8 9.3	D 60	N N L W		Un Un	Tc Tc	1.5 1.5	53	1.85 1.5	
20J3	GS GS	4-21-66 5- 1-41	USAF USA		21.0 26.2	33	N N		Ds Un	Tc Tc	1.0 1.0	83.85	Dry 16.10	Wp
20J4	GS D	4-21-66 6-27-26	USAF USA	1926	160	16	N N	1,000	Ds Un			18.8	12	L,T
20J5	GS GS	4-21-66 1943	USAF USA		100	R			Ds Ds			20		L
20J6	GS	4-21-66	USAF		2.2	D 27	N N		Ds	Tc	0	50	Dry	
20J7	GS	4-21-66	USAF		2.5	D 48	N N		Ds	Tc	0	20	Dry	
20K1	GS GS	4-21-66 5- 1-41	USAF USA		4.9		N N		S Ds, S	Tc Tc	0 0	50	.26 Flowing	
20K2	GS GS	4-21-66 5- 1-41	USAF USA		5	D 48	N N		Ds Un	Tc	1.3	67.07	+13	Wp
20K3	GS GS	4-21-66 5- 1-41	USAF USA		9.3	D 48	C 1	8	Ds Ir	Tc	.5	40	.43	
20K4	GS GS	4-21-66 10-28-42	USAF USA		2.5	R 6	N N		Ds Un	Tc	1.0	18.8	.70	
20K5	GS	4-21-66	USAF		2.7	D 48	N N		Un	Tcc	.5	60	1.68	
20Z1	GS OG	4- 5-66 8- 3-29	Gaviota Oil Co.	1929	2,662				Ds			225		
21D1	GS GS	4-26-66 3-27-41	USAF USA	1924	180	R 16	T 40	1,500	Ds Ds, Ir Hpb		.3	17.91	6.96	C,L,Wp
21G1	GS GS	4-26-66 3-27-41	USAF USA		182	R 12	T E T 20		Ir	Na Bhc	.4	23.56	8.42	L,Wp

USGS well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point		Altitude of lsd (feet)	Water level below lsd (feet)	Other data
										Description	Distance from lsd (feet)			
T. 7 N., R. 35 W.--Continued														
7/35-21H1	GS	4-26-66	USAF			R 16	N N		Un	Hpb	1.0	23.99		C,L,Wp
	GS	9-20-41	USA		176		T E		Ir	Na				
21J1	GS	4-25-66	USAF						De			24.0		L
	GS	10-28-42	USA		191				Un					
21L1	GS	4-26-66	USAF	1921					De			20	8.40	C,L,Wp
	GS	3-27-41	USA		190	R 12	T 20	1,000	Ir	Hpb	1.4			
21L2	GS	4-26-66	USAF						De			19.52		Wp
21L3	GS	4-26-66	USAF				L E		De	Na		23		C
	GS	4-10-43	USA						De					
21L4	GS	4-22-66	USAF	1954		C 16	T 100		Pa	Hpb	2.0	20	10.45	C,L,P,T,Wp
	GS	12-13-54	USA		181		T 60	1,300	Ir	Hpb	2.0		8.68	
21M1	GS	4-26-66	USAF						De			22.68		Wp
	GS	3-27-41	USA		21	D 18	L W		S	Tc	1.5		12.96	
21R1	GS	4-25-66	USAF						De			26.43		C,Wp
	GS	4-24-41	USA		82.4	6	L W		De	Tc	3.2		4.63	
22A1	GS	4-26-66	USAF	1924		R 16	N N		De			29.43		L,Wp
	GS	1941	USA		145				Un					
22F1	GS	4-26-66	USAF	1924		R 16	T N		Un	Tc	.3	25.79	9.00	C,L,Wp
	GS	4-24-41	USA		173		T 50	1,600	Ir	Hpb	1.0		7.17	
22F2	GS	4-25-66	USAF	1947					De			19.12		Wp
	GS	10-21-47	USA		12	A 2				Tc	.5		5.37	
22F3	GS	4-26-66	USAF						Un			20	10.47	L,T
	GS	2-7-55	USA		183.7	C 16	N N		Ir	Tcc	.7		10.69	
	D	3-26-54		1954	190		T 30	1,300	Ir	Bhc	.3		14	
22L1	GS	4-25-66	USAF	1934					Ir			30	14.42	C,L,T
	D	8- -34	C. Ingram		219	12	T 15	1,080		Bhc	0		24.6	
22M1	GS	4-25-66	USAF						Ir			28.84	6.27	C,L,W,Wp
	GS	4-24-41	USA		180	12	T 15		Ir	Hpb	1.0			
22M2	GS	4-25-66	USAF	1947					De			28.20		L,Wp
	GS	10-20-47	USA		22	A 2			O	Tc	.8		14.08	

USGS well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point Description Distance below (feet)	Altitude of lid (feet)	Water level below lid (feet)	Other data
T. 7 N., R. 35 W.--Continued													
7/35-22N1	GS GS GS GS	4-26-66 3- 5-54 7- 3-53 4-24-41	USAF USA						Ds		26	Dry 8.44	
						6 L W			Dm, S Na				
22N2	GS D	4-25-66 7-16-58	USAF USN	1958	183.6 194	C 8 N N C 8 N N	N N N N	380 75	O Un	Tc 1.3	24	4.49	C, L, T, W
22P1	GS GS	4-25-66 4-10-41	USAF USA			R 5 L W			Ds Dm, S Tc	1.0	29.02	4.52	C, Wp
23A1	GS D	4-26-66 1941	USAF USA	1941	200	R N N N	N N N N		Ds Un		43	Dry	L
23B1	GS PGE GS D	4-26-66 11- 1-55 9- 4-42 9-30-41	USAF USA					363 1,600 1,800	Ds Ps		38	18.3 22.7	C, L, P, T
23D1	GS GS	4-26-66 11-12-41	USAF USA	1941	206	R 18		100	Ds	Tc .7	35	26.73	L, T
24B1	GS GS	4-25-66 9-22-41	FCI USA	1941	180	R 18 N N	N N N N		Ds Un	Tc 1.7	48	18.3	L
24B2	GS GS	4-25-66 1941	FCI USA	1941	202	R 18 N N	N N N N	1,500	Ds Un	Tc 1.7	48	15.8	L
24H1	GS GS	4-25-66 9-22-41	FCI USA		182	16 T N T E	N N N N		Un Ir	Tc .4	48.01	22.27	C, L
24H2	GS PGE GS	4-25-66 11- 1-55 5- 4-42	FCI USA	1941	202	R 18 N N	N N N N	1,450	Un Ps	Ma	48	20.8 17.5	C, L, P
26N1	GS	4-27-66	USAF			14 N N	N N		Un	Bhc 1.0	40	4.19	
26P1	GS GS D	4-26-66 2- 3-55 5-10-54	USAF USA	1954	133.7 176	C 16 N N N N	N N N N	200	Un Un	Tc 1.0	40	7.76 Flowing Flowing	L, T
27C1	GS GS	4-25-66 4- 9-41	Southern Pacific Co.	1925	151	R 15 T E T G	T E T G		Un		28		
27C2	GS GS	4-25-66 4- 9-41	Southern Pacific Co.	1912	118	R 15 N N	N N N N		Un O	Na Tc 0	32.42	5.75	C, Wp

USGS well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point		Altitude of lsd (feet)	Water level below lsd (feet)	Other data
										Description	Distance below lsd (feet)			
T. 7 N., R. 35 W.--Continued														
7/35-27C3	GS GS	4-25-66 4-18-41	USAF USA	1926	158	R 12	T T		Un Un	Tc Tc	0 0	28.44	6.74 2.73	W, Wp
27P1	GS GS	4-26-66 10-28-42	USAF USA		123	R 12	N T T 20		0 Un	Tcc Hpb	.3 .4	27.63	3.25	C, L, W, Wp
27H1	GS GS	4-26-66 5- 1-41	USAF USA	1937	142	R 16	T T T 20		Un Ir	Hpb Tc	.5 .5	27	6.11 2.62	L, Wp
27J1	GS GS	4-26-66	USAF		137		N N		Ds T			28.44		L, Wp
27K1	GS GS D	4-26-66 5- 1-41 7- -35	USAF USA S. Collis	1935	167.2 182	16			Ds Dm	Tc	1.3	30	3.96	L, Wp
27K2	GS GS	4-26-66 5- 1-41	USAF USA		5	D 8	L W		Ds Dm, S	Hpb	.8	38.10		Wp
27P1	GS DWR	4-27-66 12-12-63	USAF	1963	582	R 7	N N	8	Un	Tc	2.5	260	222.76	C, E, L, W
28A1	GS	4-27-66	USAF						Ds			34.50		Wp
28H1	GS GS	4-27-66 5- 1-41	USAF USA				J 1/2	500	Ds Dm, S	Na		41.16		C, Wp
28H2	GS GS	4-27-66 5- 1-41	USAF USA		67.4	12	L W		Ds Dm	Tc	1	38.55	all.38	Wp
28K1	GS GS	4-27-66 5- 1-41	USAF USA	1936	40	R 8	L 3/4		Ds Dm, S	Na		76.72		Wp
28K2	GS DWR	4-27-66 12-12-63	USAF	1958	232.9	C 8	N N	5 10	0	Tc	1.1	89	17.16	C, L, W
28R1	GS DWR	4-27-66 12-11-63	USAF	1962	510	R 7	N N	10	0	Tc	1.0	120	60.55	C, E, L, W
30G1	GS	4-27-66	USAF	1958	276.9	C 8	N N	.04	0	Tc	1.1	130	97.24	C, L, W
31B1	GS GS	4-27-66 2-21-63	USAF USN	1962	472	R N	N N		Ds T			85		E, L
31J1	GS DWR GS	4-26-66 12-11-63 3-12-63	USAF USN	1962	557.5 625	R 6	N N N N	10	0 0	Tc Tc	2.5 2.5	160	50.39	C, E, L, W

USGS well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point		Altitude of land (feet)	Water level below land (feet)	Other data
										Description	Distance above or below land (feet)			
T. 7 N., R. 35 W.—Continued														
7/35-31M1	GS	4-27-66	USAF	1963	428	R	N N N		Ds			200		E, L
	GS	3-12-63	USN						T					
31M2	GS	4-27-66	USAF			16	N N		Un	Tc	5.0	200		
31Z1	GS	4- 5-66	Bear Creek Oil and Mining Co.						Ds			360		
	OC	1907		1907	3,500				Un					
31Z2	GS	4- 5-66	USAF						Ds			171.9	Dry	L
	CE	11-20-64		1964	40	A	N N N		T					
31Z3	GS	4- 5-66	USAF						Ds			218.0	Dry	L
	CE	11-24-64		1964	40	A	N N N		T					
31Z4	GS	4- 5-66	USAF						Ds			256.1	Dry	L
	CE	11-28-64		1964	60	A	N N N		T					
31Z5	GS	4- 5-66	USAF						Ds			260.5	Dry	L
	CE	12- 1-64		1964	70	A	N N N		T					
31Z6	GS	4- 5-66	USAF						Ds			249.0	Dry	L
	CE	12-17-64		1964	70	A	N N N		T					
32M1	GS	4-26-66	USAF						O	Tc	11.2	175	5.83	C, L, T, W
	GS	7-23-62			214.8		8 N N			Tc	1.4			
	D	5-27-58	USN	1958	300	C	8 N N	21						
33M1	GS	4-27-66	USAF						Ds			122.23		Wp
	GS	4-27-66	USAF	1962					Ds			370		E, L
	GS	12-21-63	USN		1,004	R	N N N		T					
33J1	GS	4-27-66	USAF						O	Tc	1.0	177	bl26.60	C, L, T, W
	D	6-18-58	USN	1958	186.0 380	C	8 N N 8 N N	125 50	Un					
33J2	GS	4-27-66	USAF						Ps	Tap	1.0	177	al77.8	C, E, L, P, T
	GS	10-17-58	USN	1958	465	R	14 T 100	900 1,200						W
33J3	GS	4-27-66	USAF						Ps	Tap	.56	220	176.3	C, L, P, W
33M1	GS	4-27-66	Inter Oil Co.						Ds			480		E, La
	O	9-14-54		1954	2,799		12 N N		Un					
33M2	GS	4-27-66	USAF						Ds			450		E, L
	GS	3-12-63	USN	1963	926		N N N		T					

See footnotes at end of table.

USGS well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point		Altitude of lsd (feet)	Water level below lsd (feet)	Other data
										Description	Distance below lsd (feet)			
T. 7 N., R. 35 W.--Continued														
7/35-33R1	GS	4-27-66	USAF	1958	425	C 8	N N N	180	0	Tc	1.5	216	115.51	C,L,T,W
34K1	GS	4-27-66	USAF	1963	0				Ds			500		E,L
	GS	2-21-63	USN		1,000	R N	N N N		T					
35C1	GS	4-27-66	USAF		105	R 12			Ds			36.12		L,Wp
	GS		USA											
35C2	GS	4-27-66	USAF	1934	122	R 16	T 25	1,050	Ds			36.3		C,L,T,Wp
	GS	5- 1-41	USA						Ir					
35C3	GS	4-27-66	USAF				3 N N		Ds			35.71		Wp
	GS	1- 5-43	USA						Un	Tc	4.45			
35C4	GS	4-27-66	USAF	1947	9	A 2			Ds			36.68	3	L,Wp
	GS	10-21-47	USA							Tc	1.0			
35C5	GS	4-27-66	USAF	1955	157	C 16	N N N	350	Ds			40	1.75	L,T
	GS	10-29-55	USA						Un					
35D1	GS	4-27-66	USAF	1939	80	R 6	J ½		Un	Tcc	0	40	16.86	
35D2	GS	4-27-66	USAF	1963	152.4	R 7	N N N	10	0	Tc	2.0	70	16.24	C,E,L,W
	DWR	12-12-63												
T. 7 N., R. 36 W.														
7/36-36Z1	GS	4-5-66	Keystone Petroleum Corp.						Ds			200		La
	OG	12-12-29		1929	3,002	R 16	N N N		Un					
36Z2	GS	4- 5-66	USAF	1964	60	A N	N N N		Ds			200	Dry	L
	CE	12- 8-64							T					
T. 8 N., R. 34 W.														
8/34-4N1	GS	4-28-66	USAF	1950	180	C 6	L W	15	S	Tcc	1.25	460	139.96	L
	GS	2-14-52								Tc	1.0		133	
		6- 9-50											136	
5Z1	GS	4- 6-66	USAF	1960	70	N N	N N N		Ds			430		L
	CE	4- 4-60							T					
7Q1	GS	4-28-66	USAF		41.2	8 L	W		Un	Tc	1.0	280	3.03	
7QS1	GS	5- 9-66	USAF			N N	N N N		Un			280	Seep	

T. 8 M., R. 34 W.--Continued

USGS well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point		Altitude of well (feet)	Water level below land (feet)	Other data
										Description	Distance above or below land (feet)			
8/34-721	GS USAF	4- 6-66 7-15-58	USAF		50	N N N	N N N		Ds T			570		L
8/34-1591	GS GS	4-29-66 12- 8-43	USAF USA		86.1	R 8	L W L W		S Ds,S	Tc	2.5	350	72.31	
16791	GS CS	4-29-66 1-14-59	USAF			N N N	N N N	2	Un S			290	Seep Flowing	
1661	GS D	4-29-66 4-30-58	USAF	1958	687	R 14	T 60	200 1,180	Rc	Tap	8.33	291	Flowing	C,L,P,T,W
1662	GS D	4-29-66 12-18-64	USAF	1964	700	R 14	T 50	1,500	Ps	Tap	1.0	320	18.39 18	C,E,L,T
16J1	GS D	4-29-66 10- 2-61	USAF	1961	578	R 14	T 60	1,620	Ps	Tap	1.0	320	6.56 2.5	C,E,L,P,T
1791	GS CS	4-28-66 12- 8-43	USAF USA		40	R 16			Ds Un	Tc	1.3	320	.01	C
1792	GS CS	4-28-66 10-23-59	USAF						Ds			320	Flowing Flowing Flowing	
1793	GS GS	7-22-58 12- 8-43	USA		25	D 48	L		Un					
1794	GS GS	4-29-66 2- -58	USAF			N N N	N N N		Ds Un			280	Dry Flowing	
17K1	GS IMR	4-30-66 10-26-60	USAF			6		1.5		Rpb	2.62	273	+1.10	C,W
18C1	GS D	4-28-66 7- 5-57	USAF USA	1957	75	C 8	N N	70	Ds T			200	17.5	L,T
18Z1	GS O	4- 6-66 9- 4-52	Union Oil Co.	1952	3,848				Ds			799		E
20Z1	GS O	4- 5-66 7- 2-54	Union Oil Co.	1954	5,282				Ds			849		E
20Z2	GS O	4- 6-66 8- -52	Union Oil Co.	1952	4,262				Ds			800		
29R1	GS	5- 9-66	USAF		8.7	10	N N		Ds	Tc	.5	410	Dry	

USGS well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point Description Distance above well (feet)	Altitude of well (feet)	Water level below well (feet)	Other data
T. 8 N., R. 34 W.--Continued													
8/34-2921	GS OG	4- 6-66	Sudden Oil Co.		1,700				Ds		600		
2922	GS O	4- 6-66 10- -09	Union Oil Co.	1909	4,043				Ds		510		
3021	GS OG	4- 5-66 8-22-08	Union Oil Co.	1905	4,455	C 12			Ds		480		La
T. 8 N.; R. 35 W.													
8/35-3E1	GS O	4- 6-66 8-25-52	Union Oil Co.	1952	3,893				Ds		320		E
3M1	GS O	4- 6-66 4-13-53	Union Oil Co.	1953	3,763				Ds		320		E
3Z1	GS O	4- 6-66 9-25-54	Union Oil Co.	1954	4,129				Ds		300		E
3Z2	GS O	4- 6-66 11-22-55	Union Oil Co.	1955	3,725				Ds		360		E
3Z4	CE	4-23-58	USAF	1958	182	A 8	T N	52	T	Hpb 1.5	402	80.5	C, L, T, W
3Z5	GS CE	1-21-66 5- 4-58	USAF	1958	220	A	N N N		Ds T		402.6		L
3Z6	GS CE	1-24-66 6- 5-58	USAF	1958	50	A	N N N		Ds T		439		L
3Z7	GS CE	1-24-66 6- 7-58	USAF	1958	180	A	N N N		Ds T		495	44	L
4H1	GS O	4- 6-66 6-22-53	Union Oil Co.	1953	3,250				Ds		290		E
4J1	GS O	4- 6-66 6- 2-53	Union Oil Co.	1953	3,499				Ds		310		E
4Z1	GS O	4- 6-66 9- 4-53	Union Oil Co.	1953	2,429				Ds		240		E
5Z1	GS USAF	4- 6-66 7-15-58	USAF	1958	38	N N N	N N N		Ds T		180		L

USGS well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point		Altitude of test (feet)	Water level below test (feet)	Other data
										Description	Distance below test (feet)			
T. 8 N., R. 35 W.--Continued														
8/35-522	GS USAF	4- 6-66 7-15-58	USAF	1958	58	N N N	N N N		Ds T			200		L
7R1	GS D	4-28-66 7- 1-57	USAF	1957	100	C 8		100	Ds Un			40	2.5	C,L,T
7Z1	GS USAF	4- 6-66 7-15-58	USAF	1958	60	N N N	N N N		Ds T			120		L
7Z2	GS USAF	4- 6-66 7-15-58	USAF		76	N N N	N N N		Ds T	/		80		L
7Z3	GS CE	4- 6-66 4-28-60	USAF	1960	201	R N N	N N N		Ds T			164.9	112	L
8Z1	GS USAF	4- 6-66 7-15-58	USAF	1958	58	N N N	N N N		Ds T			120		L
8Z2	GS USAF	4- 6-66 7-15-58	USAF	1958	48	N N N	N N N		Ds T			80		L
8Z3	GS USAF	4- 6-66 7-15-58	USAF	1958	42	N N N	N N N		Ds T			80		L
9G1	GS GS	4-28-66 10- 6-64	USAF	1964	80	C N N	N N N	3	Ds T			250		L
9R1	GS GS	4-28-66 10- 8-64	USAF	1964	60	C N N	N N N		Ds T			240		L
10R1	GS GS	4-28-66 3- 5-58	USAF USA		8	D 120			Ds Un	Tcc 0		280		
10R1	GS	6-21-65	USAF	1965	42	A 1½ N	N N N		O	Tc 1.8		118	11.77	L,W
11R1	GS GS	4-28-66 7-22-58	USAF USA						Ds			220	Flowing	
11Z1	GS OG	4- 6-66 10- -54	Union Oil Co.	1954	4,174				Ds			130		
14Z1	GS POA	4- 6-66 11-20-62	USAF	1962	96	R N N	N N N	3	Ds T			487.2	44.5	L,W
15E1	GS GS	4-28-66 12-10-43	USAF USA		642	R 12 N	N N N		Ds Un			50	9	L

USGS well number	Other numbers and source of data	Date of observa- tion	Owner or user	Year com- pleted	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point		Altitude of ltd (feet)	Water level below ltd (feet)	Other data
										Distance from ltd (feet)	Distance from ltd (feet)			
T. 8 N., R. 35 W.--Continued														
8/35-15E2	GS D	4-28-66 7- 3-57	USAF	1957	42	C 8	N N N		Ds Un			50	20	L
15E3	GS GS	4-28-66 1965	USAF	1965	73	A 1½	N N N		Ds O			50		L,W
16E1	GS	6-21-65	USAF	1965	50	A 1½	N N N		O	Tc	3.0	50		L,W
17B1	GS GS D	4-28-66 2- -59 7- 1-57	USAF	1957	70	C 8	N N N	70	Ds Un			40	3.6 3.5	L,T
28Z1	GS POA	4- 5-66 11-15-62	USAF	1962	94	R	N N N		Ds T			363.9	12.5	L,W
31Z1	GS CE	4- 5-66 5-21-60	USAF	1960	200		N N N		Ds T			280.2		L
T. 8 N., R. 36 W.														
8/36-13Z1	GS CE	4- 6-66 2-19-58	USAF	1958	40	R N	N N N		Ds T			143.0	Dry	L
23Z1	GS CE	4- 6-66 4-12-57	USAF	1957	64		N N N		Ds T			126.0		L
23Z2	GS CE	4- 6-66 11-19-57	USAF	1957	73		N N N		Ds T			90		L
23Z3	GS CE	4- 6-66 10-19-57	USAF	1957	63		N N N		Ds T			104		L
24Z1	GS CE	4- 6-66 2-20-58	USAF	1958	58		N N N		Ds T			198.9		L
24Z2	GS CE	4- 6-66 4-12-57	USAF	1957	43		N N N		Ds T			218.6		L
24Z3	GS CE	4- 6-66 4-12-56	USAF	1956	74		N N N		Ds T			184.4		L
24Z4	GS USAF	4- 6-66 7-15-58	USAF		36		N N N		Ds T			200		L
25Z1	GS USAF	4- 6-66 7-15-58	USAF		32		N N N		Ds T			60		L

USGS well number	Other numbers and source of data	Date of observa- tion	Owner or user	Year com- pleted	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point Distance above or below (-) the well (feet)	Altitude of top (feet)	Water level below top (feet)	Other data
<u>T. 9 N., R. 34 W.</u>													
9/34-2921	GS 0	4- 6-66 12-19-18	Shell Oil Co.	1918	3,951			3	Ds		653	600	La
32P1	GS	4-28-66	USAF		77.9	9 L W			S	Tc 1.0	480	15.91	
33Z1	GS OG	4- 6-66 10- -32	West Hausna Oil Co.	1932	4,042	16			Ds Un		600		La
33Z2	GS OG	4- 6-66 8-24-39	Hogan Petroleum Co.	1939	4,155	R 11			Ds		829		La
<u>T. 9 N., R. 35 W.</u>													
9/35-6E1	GS	5-11-66	USAF		3.6	D 24	N N		Un	Tc 1.0	1,320	1.93	
7AS1	GS	5-11-66	USAF			N N	N N	.1	Un		880	Flowing	
7AS2	GS	5-11-66	USAF			N N	N N	.1	Un		840	Flowing	
7BS1	GS	5-11-66	USAF			N N	N N		Un		680	Seep	
7BS2	GS	5-11-66	USAF			N N	N N		Un		600	Seep	
7ES1	GS	5-12-66	USAF			N N	N N		Un		260	Seep	C
7LS1	GS	5-11-66	USAF			N N	N N	.1	Un		280	Flowing	
7PS1	GS	5-11-66	USAF			N N	N N		Un		200	Seep	C
7PS2	GS	5-11-66	USAF			N N	N N		Un		170	Seep	
8D1	GS	5-11-66	USAF		4.0	D 48	N N		S	Tc 0	800	2.55	
8E1	GS	5-11-66	USAF			D 3/4	N N	.3	S		720	Flowing	C
8ES1	GS	5-11-66	USAF			N N	N N		Un		800	Seep	
17M1	GS	5-10-66	USAF			3/4	N N	.5	Un		400	Flowing	C
17Z1	GS CE	4- 6-66 6-22-60	USAF	1960	60	N N	N N		Ds T		562	29.0	L
17Z2	GS POA	4- 6-66 12- 6-62	USAF	1962	111	R N	N N		Ds T		250.5		L

USGS well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point		Altitude of lsd (feet)	Water level below lsd (feet)	Other data
										Description	Distance above lsd (feet)			
T. 9 N., R. 35 W.--Continued														
9/35-17Z3	GS POA	4- 6-66 12-16-62	USAF	1962	110	R	N N N	1.1	Ds T			537.2	74	L
18DS1	GS	5-12-66	USAF				N N N		Un			10	Seep	
18ES1	GS	5-12-66	USAF				N N N		Un			10	Seep	
18GS1	GS	5-10-66	USAF				N N N	.5	Un			140	Flowing	
18HS1	GS	5-10-66	USAF				N N N		Un			200	Seep	
18HS2	GS	5-10-66	USAF				N N N	.3	Un			180	Flowing	C
18L1	GS CE	4-28-66 5-17-61	USAF	1961	96.6 99	C	8 T 8	48 31	Dm	Hpb	1.0	80	73.01 73	C,L,T
18Z1	GS CE	4- 6-66 6- 5-60	USAF	1960	100		N N N		Ds T			78.8	68.5	L
18Z2	GS POA	4- 6-66 12- 4-62	USAF	1962	110		N N N		Ds T			174.6		L
18Z3	GS POA	4- 6-66 12- 4-62	USAF	1962	110	R	5 N N	86	Ds T			74.8	32.4	L,T,W
19Z1	GS POA POA POA POA	4- 6-66 12-17-62 12 -6-62 11-30-62 11-28-62	USAF						Ds			175.2	96.3 112.0 123.5 128.0	L
20J1	GS D	4-28-66 10- 1-60	USAF	1960	68	R	6 T 5	60	Dm	Hpb	.5	100	12.75 15	C,L,T
20Z1	GS CE	4- 6-66 5-19-60	USAF	1960	100		N N N		Ds T			290		L
20Z2	GS CE	4- 6-66 6- 9-60	USAF	1960	100		N N N		Ds T			297		L
20Z3	GS CE	4- 6-66 3-30-60	USAF	1960	74		N N N		Ds T			190		L
21CS1	GS	5-10-66	USAF				N N N		Un			240	Seep	

USGS well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point		Altitude of lsd (feet)	Water level below lsd (feet)	Other data
										Description	Distance from lsd (feet)			
T. 9 N., R. 35 W.--Continued														
9/35-27Z1	GS O	4- 6-66 8- 9-48	Union Oil Co.	1948	2,205				Ds			424		E
27Z2	GS OC	4- 6-66 11- -48	Union Oil Co.	1948	1,664				Ds			421		
28Z1	GS CE	4- 6-66	USAF		65	N N N	N N N		Ds T			245		L
32Z1	GS USAF	4- 6-66 7-15-58	USAF	1958	80	N N N	N N N		Ds T			180		L
34Z1	GS CE	1-21-66 1-27-58	USAF	1958	181	A N N	N N N		Ds T			326	37	L
34Z2	GS CE	1-21-66 1-30-58	USAF	1958	85	A N N	N N N		Ds T			528	55	L
34Z3	GS CE	1-21-66 1-30-58	USAF	1958	57	A N N	N N N		Ds T			496	39.5	L
35Z1	GS CE	1-21-66 2-14-58	USAF	1958	83	A N N	N N N		Ds T			559	76.0	L
35Z3	GS CE	1-21-66 3-15-58	USAF	1958	45	A N N	N N N		Ds T			559	Dry	L
36CS1	GS	4-28-66	USAF			N N N	N N N		Un			660	Seep	
T. 9 N., R. 36 W.														
9/36-1AS1	GS	5-11-66	USAF			N N N	N N N		S			1,000	Flowing	
1AS2	GS	5-11-66	USAF			N N N	N N N		Un			920	Seep	
1CS1	GS	5-11-66	USAF			N N N	N N N	1	Un			880	Flowing	
1CS2	GS	5-11-66	USAF			N N N	N N N	1	Un			880	Flowing	
1NS1	GS	5-12-66	USAF			N N N	N N N	2	Un			100	Flowing	C
1PS1	GS	4-28-66	USAF			N N N	N N N		Dm			280	Seep	C
1Z1	GS CE	4- 6-66 5- 6-60	USAF	1960	101	R N N	N N N		D T			150	72	L

USGS well number	Other numbers and source of data	Date of observation	Owner or user	Year completed	Depth of well (feet)	Type and diameter (inches)	Type of pump and power	Yield (gpm)	Use	Measuring point		Altitude of top (feet)	Water level below top (feet)	Other data
										Description	Distance above or below (feet)			
T. 9 N., R. 36 W.--Continued														
9/36-2JS1	GS	5-12-66	USAF			N	N	N	Un			20	Seep	
2Z1	GS FOA	4- 6-66 11-15-62	USAF	1962	107	4	N	N	Ds T	2.2		146.7	87.2	L,W
11Z1	GS CE CE	4- 6-66 5-20-60 5-10-60	USAF	1960	99	N	N	N	Ds T T	.7		100	49 42.0	C,L
12QS1	GS	5-12-66	USAF			N	N	N	Un	.1		100	Flowing	
12QS2	GS	5-12-66	USAF			N	N	N	Un			80	Seep	
12Z1	GS FOA	4- 6-66 11-21-62	USAF	1962	124	R	4	N	Ds T			261.2	119.5	L,W
13AS1	GS	5-12-66	USAF			N	N	N	Un	.1		20	Flowing	

a. Well being pumped.

b. Nearby well being pumped.

Table 2.--Cross index of well numbers

In part 1 the USGS well number is referenced to designations used by the Air Force and to other designations associated with that well. The Camp Cooke well numbers were assigned by the U.S. Army before Camp Cooke became Vandenberg Air Force Base. The abbreviations used are: FCI Federal Correctional Institute, USGS U.S. Geological Survey, USN U.S. Navy. In part 2 the USGS number is referenced to the oil-well owner and the owner's number.

USGS well number	Vandenberg A.F.B. well designation	Other designation
Part 1. Water-Well Numbers		
6N/35W- 2D1		USGS test well 10
5F1		5
15J1		7
16P1		8
21D1		9
22J1	Tranquillon Mountain Spring	
31M1		Coast Guard Life Boat Station well
6N/36W-23R2		Army well
25H1		Red Tank Spring
26E1		Navy well
26G1		Sudden well
7N/34W-18L1		Camp Cooke 119-A
18L3		98-B
19H1		98-A
19J1	Supply well 3	49
19J2		98-C
19J3	Supply well 10	
19J4		FCI irrigation well 4
19L1		Camp Cooke 47
19L2	Supply well 12	
19Q1	Test well 8	
19Z1	Test well 11	
20K2		Camp Cooke 75
20K3		75-A
20K4	Supply well 5	54
20K5	Supply well 5A	
20L1	Supply well 6	
20M2	Supply well 4	
20R1		Camp Cooke 51
21J1		FCI irrigation well 7
21J2		Camp Cooke 48
21N1		New FCI irrigation well
21N2		FCI irrigation well 2
21N3		Camp Cooke 63-A
21N4		R61-C
21N5		R61-D
21P1		R61-E
29A4	Test well 9	R50

USGS well number	Vandenberg A.F.B. well designation	Other designation
7N/35W-13N1		Camp Cooke 136
15P1		170
15R1		160-A
16G1		178-A
17B1		178
17B2		178-X
18J1		183
20H1		172
20J1		175-A
20J3		175-C
20J5		175-X
20K2		175-B
20K4		175
21D1		177
21G1		167
21H1		169
21J1		167-X
21L1		171-X
21L2		171
21L4	South base well 2	
21M1		Camp Cooke 171-A
21R1		163
22A1		160
22F1		165
22L1		158-A
22M1		163-C
22N1		163-R
22N2		USGS test well 11
22P1		Camp Cooke 162
23A1		40
23B1	Supply well 1	38
23D1		36
24B1		44
24H1		119
24H2	Supply well 2	45
27F1		161
27P1		USN test well 3
28A1		Camp Cooke 163-B
28K1		163-E
28K2		USGS test well 3
28R1		USN test well 6
30G1		USGS test well 1
31B1		USN test well 1

USGS well number	Vandenberg A.F.B. well designation	Other designation
7N/35W-31J1		USN test well 8
31M1		9
32N1		USGS test well 4
33A1		Camp Cooke 163-F
33E1		USN test well 2
33J1		USGS test well 6
33J2	South base well 1	
33J3	South base well 3	
33M2		USN test well 7
33R1		USGS test well 2
34K1		USN test well 5
35D2		4
8N/34W-16G1	Former San Antonio well 1	
16G2	San Antonio well 1	
16J1	San Antonio well 2	
9N/35W-18L1	Minuteman well 14	
20J1	Minuteman well 13	
9N/36W-1PS1	Minuteman Spring	

USGS well number	Owner and well number
Part 2. Oil-Well Numbers	
5N/35W-12Z1	Union Oil Co., Sudden 1
6N/35W- 4Z1	The Texas Co., Intex Lagomarsino 1
8Z1	Top Row Oil Co., Spanne 1
9Z1	MJM & M Oil Co., Spanne 2
16Z1	Stansbury-Webb and G. J. Greer, Spanne 1
30Z1	Gulf Oil Corp., Sudden 4
6N/36W-24Z1	Amerada Petroleum Corp., Sudden 1
25Z1	Intex Oil Co., Sudden 1
26G2	Hollywood Oil Co., 1
35Z1	Standard Oil Co., Sudden 1
36Z1	Intex Oil Co., Sudden 2
36Z2	Gulf Oil Corp., Sudden 3
7N/34W-17Z1	Lompoc Petroleum Co., Beuterbaugh 2
21Z1	The Texas Co., Lompoc Comm 7NCTN
7N/35W- 5Z1	Standard Oil Co., Packard-Shyvers 1
6Z1	Murphy Bros., Ltd., Sinclair 74-6
10Z1	Anglo-Californian Oil Syndicate, Packard 2
11Z1	W. H. Taylor, Packard 1
11Z2	Walter F. Parker, Packard 1
12Z1	Anglo-Californian Oil Syndicate, Packard 1
20Z1	Gaviota Oil Co., 1
31Z1	Bear Creek Oil and Mining Co., 1
33M1	Intex Oil Co., Lagomarsino 1
7N/36W-36Z1	Keystone Petroleum Corp., Ltd., Mary A. True 1
8N/34W-18Z1	Union Oil Co., Jesus Maria 3
20Z1	Union Oil Co., Arkley 23-20
20Z2	Union Oil Co., Rudolph 1
29Z1	Sudden Oil Co., 1
29Z2	Union Oil Co., Nichols 1
30Z1	Union Oil Co., Burton 1

USGS well number	Owner and well number
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8N/35W- 3E1	Union Oil Co., Jesus Maria 4
3M1	Union Oil Co., Jesus Maria 46-3
3Z1	Union Oil Co., Jesus Maria 31-11
3Z2	Union Oil Co., Jesus Maria 87-3
4H1	Union Oil Co., Jesus Maria 25-3
4J1	Union Oil Co., Jesus Maria 36-3
4Z1	Union Oil Co., Jesus Maria 75-4
11Z1	Union Oil Co., Jesus Maria 28-12
9N/34W-29Z1	Shell Oil Co., Shell Newhall 1
33Z1	West Hausna Oil Co., 1
33Z2	Hogan Petroleum Co., Zabala 1
9N/35W-27Z1	Union Oil Co., Jesus Maria 1
27Z2	Union Oil Co., Jesus Maria 2

Table 3.--Records of water levels in wells

All water-level measurements are referenced to land-surface datum. Thus, the figures shown are depths to water, in feet, below or above(+) land-surface datum. The altitude given is that of land-surface datum and where given to the nearest foot was interpolated from topographic maps having 40-foot contour intervals. Altitudes given to the nearest tenth or hundredth of a foot were surveyed. The 1966 water-level measurement and latest measuring point used by the Geological Survey are given in table 1. Also, if fewer than five measurements have been made, they are shown in table 1.

Date	Water level	Date	Water level	Date	Water level
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6N/35W-2D1. Depth of well 475 ft July 8, 1958; 443.6 ft April 27, 1966. Altitude about 290 ft.

July 8, 1958	215.85	Oct. 28, 1959	211.65	Apr. 27, 1964	212.00
17	212.40	Jan. 28, 1960	212.00	July 31	212.19
Aug. 28	212.10	Apr. 29	211.74	Oct. 26	212.42
Oct. 29	211.96	July 29	212.08	Jan. 27, 1965	213.28
Nov. 25	211.93	Nov. 28	211.96	Apr. 28	213.04
Apr. 8, 1959	211.64	Oct. 30, 1963	212.00	July 28	212.82
30	211.45	Jan. 22, 1964	211.85	Aug. 4	212.70

6N/35W-5F1. Depth of well 77 ft May 29, 1958. Altitude about 230 ft.

June 3, 1958	25.60	June 25, 1958	27.31	Sept. 16, 1958	29.71
6	25.90	July 17	28.26	Apr. 30, 1959	30.15
14	26.50	31	28.55		
18	26.82	Aug. 21	29.30		

6N/35W-15J1. Depth of well 78 ft June 6, 1958; 77.0 ft April 28, 1966. Altitude about 585 ft.

June 12, 1958	20.80	Sept. 3, 1958	20.36	Apr. 30, 1959	20.24
July 17	20.66	10	20.36	Aug. 4, 1965	23.87
31	20.56	16	20.35		
Aug. 19	20.49	Apr. 8, 1959	25.07		

6N/35W-16P1. Depth of well 76 ft June 12, 1958. Altitude about 400 ft.

June 21, 1958	17.92	Aug. 19, 1958	20.62	Apr. 8, 1959	23.05
July 17	19.67	Sept. 3	20.94	30	23.20
30	20.09	10	21.15		
31	20.08	16	21.24		

6N/35W-21D1. Depth of well 59 ft June 16, 1958. Altitude about 380 ft.

June 21, 1958	16.60	Aug. 19, 1958	20.14	Apr. 8, 1959	22.07
July 17	18.23	Sept. 3	20.97	30	22.95
30	18.91	10	21.33		
31	18.97	16	21.61		

Date	Water level	Date	Water level	Date	Water level
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6N/35W-31M1. Depth of well 194 ft July 10, 1942. Altitude about 74 ft.

July 10, 1942	1936 g65 58.55	Jan. 17, 1944	61.44	Dec. 1, 1959	62.70
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6N/36W-26E1. Depth of well 476 ft March 13, 1941; 452.2 ft April 27, 1966. Altitude about 150 ft.

June 7, 1940	g125	Sept. 13, 1943	g133	Aug. 28, 1945	140.86
Aug. 5 1942	g101	Oct. 28	132	Dec. 1, 1959	120

6N/36W-26G1. Depth of well 220 ft March 13, 1941; 220.2 ft April 27, 1966. Altitude about 330 ft.

1928	66	1931	100	Oct. 1935	96.6
1929	80	1932	106	Apr. 27, 1966	103.81
1930	87	1933	120		

7N/34W-19J1. Depth of well 182 ft October 10, 1941. Altitude about 61 ft.

Oct. 10, 1941	g21.8	Nov. 14, 1961	a65	Dec. 21, 1962	47
Nov. 1, 1955	g30.5	June 8, 1962	53	Apr. 25, 1966	56.57

7N/34W-20M2. Depth of well 192 ft November 4, 1941. Altitude about 70 ft.

Nov. 4, 1941	g18.7	Nov. 1, 1955	g27.0	Oct. 23, 1956	g31
May 4, 1942	g18.5				

7N/34W-20M2. Depth of well 40.4 ft April 20, 1966. Altitude about 50 ft.

Feb. 4, 1964	14.68	Sept. 28, 1964	17.28	Mar. 30, 1965	19.49
May 27	17.30	Oct. 29	18.39	Apr. 30	15.15
June 25	17.04	Nov. 25	17.34	May 27	16.30
July 31	17.70	Jan. 28, 1965	17.65	June 30	18.12
Aug. 27	16.27	Feb. 26	18.95		

7N/34W-20M3. Depth of well 38.4 ft April 20, 1966. Altitude about 62 ft.

Feb. 4, 1964	24.39	Sept. 28, 1964	27.33	Mar. 30, 1965	28.20
May 27	26.79	Oct. 29	27.92	Apr. 30	25.50
June 25	26.93	Nov. 25	27.24	May 27	25.79
July 31	27.16	Dec. 30	27.89	June 30	26.31
Aug. 27	26.70				

See footnotes at end of table.

Date	Water level	Date	Water level	Date	Water level
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7N/34W-21E1. Depth of well 145 ft November 19, 1948; 119.5 ft April 20, 1966. Altitude about 82 ft.

May 26, 1964	31.67	Oct. 29, 1964	33.95	Apr. 30, 1965	25.37
June 25	32.07	Nov. 25	33.07	May 27	30.41
July 31	33.00	Jan. 28, 1965	31.55	June 30	31.51
Aug. 27	33.46	Feb. 26	31.56		
Sept. 28	33.98	Mar. 30	34.57		

7N/35W-17M1. Depth of well 165.0 ft April 20, 1966. Altitude is 9.74 ft.

July 15, 1964	2.80	Feb. 25, 1965	2.34	Aug. 23, 1965	3.32
Sept. 25	4.93	Mar. 29	2.17	Sept. 27	3.49
Oct. 28	2.80	May 5	2.52	Oct. 29	3.13
Nov. 25	2.17	26	3.21	Dec. 1	2.55
Dec. 29	1.83	June 30	3.10	28	2.13
Jan. 27, 1965	2.54	July 28	3.22		

7N/35W-18H1. Depth of well 111.5 ft April 21, 1966. Altitude is 5.87 ft.

July 29, 1964	1.01	Oct. 28, 1964	1.05	Sept. 27, 1965	1.49
Aug. 28	1.08	July 28, 1965	1.54	Oct. 29	1.26
Sept. 25	.83	Aug. 23	1.56		

7N/35W-18H2. Depth of well 192 ft July 15, 1964; 187.8 ft April 21, 1966. Altitude is 7.23 ft.

July 15, 1964	3.44	Feb. 25, 1965	2.71	Aug. 23, 1965	2.96
Sept. 25	2.10	Mar. 29	2.33	Sept. 27	2.94
Oct. 28	2.42	Apr. 28	3.31	Oct. 29	2.36
Nov. 25	1.81	May 26	3.40	Dec. 1	2.52
Dec. 29	2.05	June 30	2.95	28	1.78
Jan. 27, 1965	2.98	July 28	2.87		

See footnotes at end of table.

Date	Water level	Date	Water level	Date	Water level
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7N/35W-18J2. Depth of well 121.7 ft April 21, 1966. Altitude is 7.38 ft.

May 26, 1964	3.23	Dec. 29, 1964	2.34	July 28, 1965	4.02
June 25	3.41	Jan. 27, 1965	3.46	Aug. 23	3.87
July 29	3.48	Feb. 25	3.20	Sept. 27	3.62
Aug. 28	3.45	Mar. 29	2.93	Oct. 29	3.50
Sept. 25	3.17	Apr. 28	3.88	Dec. 1	3.20
Oct. 28	3.34	May 26	3.98	28	2.62
Nov. 25	2.66	June 30	4.00		

7N/35W-20J1. Depth of well 125 ft June 18, 1928; 108.0 ft May 1, 1941; 20.5 ft April 28, 1966. Altitude is 19.07 ft.

May 28, 1964	7.64	Dec. 29, 1964	7.91	June 30, 1965	7.77
June 17	7.85	Jan. 26, 1965	7.68	July 28	8.23
24	7.79	Feb. 24	7.44	Aug. 22	8.63
Sept. 25	8.61	Mar. 29	7.45	Sept. 29	9.08
Oct. 28	8.68	Apr. 29	8.78	Oct. 25	9.07
Nov. 25	8.17	May 26	7.20	Nov. 22	7.79

7N/35W-21L4. Depth of well 181 ft December 13, 1954. Altitude about 20 ft.

Oct. 26, 1954	9.09	Feb. 26, 1960	7.75	Dec. 29, 1964	9.42
Dec. 13	8.68	Mar. 31	8.36	Jan. 26, 1965	9.00
June 17, 1958	8.39	June 22	12.28	Feb. 24	8.64
19	7.81	July 28	15.63	Mar. 29	8.65
Apr. 8, 1959	7.88	Aug. 25	13.93	Apr. 29	9.58
June 10	p9	Oct. 27	13.39	May 26	8.30
24	8.94	Nov. 29	15.38	June 30	9.35
July 31	9.40	Dec. 28	13.11	July 28	10.34
Aug. 28	9.71	May 28, 1964	9.39	Aug. 22	10.20
Sept. 29	9.78	June 17	8.62	Sept. 29	8.94
Oct. 28	9.96	24	8.60	Oct. 25	9.28
Nov. 25	9.83	Sept. 25	9.30	Nov. 22	10.08
Dec. 23	9.41	Oct. 28	9.33		
Jan. 28, 1960	8.73	Nov. 25	9.40		

See footnotes at end of table.

Date	Water level	Date	Water level	Date	Water level
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7N/35W-22M1. Depth of well 180 ft April 24, 1941. Altitude is 28.84 ft.

Jan. 29, 1963	7.00	Jan. 22, 1964	7.14	Jan. 27, 1965	6.45
Feb. 26	7.31	Feb. 27	7.74	Feb. 25	7.88
Mar. 27	6.11	Mar. 27	7.59	Mar. 29	9.16
June 26	7.34	May 28	8.21	Apr. 29	5.50
July 25	8.31	June 25	8.57	May 27	6.25
Aug. 28	7.71	Aug. 28	15.91	June 30	7.61
Sept. 26	5.95	Sept. 25	10.41	Sept. 29	7.18
Oct. 30	7.30	Oct. 28	8.29	Oct. 25	7.15
Nov. 29	7.73	Nov. 25	7.54		
Dec. 20	6.78	Dec. 29	7.39		

7N/35W-22N2. Depth of well 194 ft July 16, 1958; 183.6 ft April 25, 1966. Altitude about 24 ft.

July 16, 1958	b6.50	Nov. 29, 1960	4.89	Aug. 30, 1963	7.61
30	15.00	Dec. 28	4.17	Sept. 26	7.24
31	14.69	Jan. 24, 1961	5.16	Oct. 28	6.79
Aug. 6	5.66	Feb. 24	4.81	Nov. 29	6.34
6	5.75	Mar. 30	12.40	Dec. 20	6.39
19	10.99	Apr. 25	11.90	Jan. 22, 1964	6.85
21	c9.45	June 27	13.53	Feb. 27	7.30
Sept. 10	4.12	July 25	10.72	Mar. 27	7.14
Oct. 2	4.32	Aug. 25	11.84	Apr. 27	14.32
Nov. 25	b6.09	Sept. 28	10.42	May 26	7.53
Dec. 30	3.76	Oct. 25	9.74	June 25	8.09
Jan. 30, 1959	3.12	Nov. 28	7.41	July 28	20.38
Apr. 8	4.47	Jan. 23, 1962	k7.15	Aug. 26	18.20
30	5.75	Feb. 15	k3.46	Sept. 23	9.54
June 2	5.39	Mar. 14	k3.18	Oct. 26	8.07
24	5.94	Apr. 18	k4.41	Nov. 24	7.26
July 31	6.43	May 16	k5.25	Dec. 23	6.98
Aug. 28	6.63	June 27	k6.52	Jan. 27, 1965	6.21
Sept. 29	6.02	July 23	k7.66	Feb. 24	7.32
Oct. 28	k6.27	Aug. 29	k15.40	Mar. 29	8.55
Nov. 25	5.97	Sept. 26	8.11	Apr. 28	5.37
Dec. 23	k5.48	Oct. 23	16.83	May 26	5.82
Jan. 28, 1960	4.43	Nov. 26	6.98	June 30	7.10
Feb. 26	3.55	Dec. 26	6.62	July 28	16.34
Mar. 31	5.88	Jan. 29, 1963	6.59	Aug. 3	17.29
May 27	7.05	Feb. 26	5.73	23	17.70
June 23	16.87	Mar. 26	5.77	Sept. 28	6.99
July 28	9.90	Apr. 24	15.53	Oct. 25	6.89
Aug. 25	15.97	May 24	6.28	Nov. 30	5.20
Oct. 7	6.80	June 24	6.61	Dec. 28	5.07
Nov. 2	6.50	July 25	7.60		

See footnotes at end of table.

Date	Water level	Date	Water level	Date	Water level
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7N/35W-27C3. Depth of well 158 ft April 18, 1941. Altitude is 28.44 ft.

May 27, 1964	9.48	Dec. 29, 1964	8.22	June 30, 1965	8.75
July 29	18.13	Jan. 27, 1965	7.53	July 28	14.13
Aug. 28	15.08	Feb. 25	8.86	Aug. 23	15.83
Sept. 25	10.83	Mar. 30	10.00	Sept. 29	8.22
Oct. 28	9.28	Apr. 29	6.30	Oct. 25	8.20
Nov. 25	8.56	May 27	7.27	Nov. 22	7.09

7N/35W-27F1. Depth of well 123 ft October 28, 1942. Altitude is 27.63 ft.

Oct. 28, 1942	5.77	Oct. 25, 1961	11.08	Oct. 29, 1963	8.43
July 3, 1953	14.40	Nov. 24	9.93	Nov. 29	8.00
Mar. 5, 1954	3.51	Dec. 28	12.99	Dec. 20	8.00
Oct. 26	7.72	Jan. 23, 1962	8.58	Jan. 22, 1964	8.59
Mar. 29, 1955	7.86	Feb. 27	4.67	Feb. 27	8.92
Oct. 14	7.79	Mar. 29	5.28	Mar. 27	8.75
Mar. 22, 1956	5.42	Apr. 24	7.05	Apr. 27	11.81
Oct. 30	6.06	May 28	6.78	May 28	9.34
Mar. 28, 1957	5.83	June 27	8.16	June 17	10.11
Nov. 13	6.58	July 23	9.31	July 28	17.47
Apr. 21, 1958	2.52	Aug. 29	12.54	Aug. 26	15.20
Oct. 2	5.23	Sept. 26	9.95	Sept. 23	11.00
Mar. 20, 1959	3.78	Oct. 23	13.95	Oct. 26	9.71
Oct. 7, 1960	9.83	Nov. 26	8.63	Nov. 24	8.88
Nov. 2	10.18	Dec. 26	10.43	Dec. 23	8.64
28	7.85	Jan. 29, 1963	8.22	Jan. 26, 1965	7.92
Dec. 28	7.35	Feb. 26	7.40	Feb. 24	8.89
Feb. 24, 1961	8.56	Mar. 26	7.40	Mar. 29	9.97
Mar. 30	11.78	Apr. 24	12.73	Apr. 28	6.83
Apr. 25	12.34	May 24	7.83	May 26	7.49
May 26	9.79	June 24	8.35	June 30	8.88
July 25	12.18	July 25	9.09	July 28	13.58
Aug. 25	16.67	Aug. 30	10.25	Aug. 22	10.76
Sept. 28	11.88	Sept. 25	8.76	Sept. 28	8.70
				Oct. 25	8.58
				Nov. 22	7.52

Date	Water level	Date	Water level	Date	Water level
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7N/35W-27P1. Depth of well 582 ft April 27, 1966. Altitude about 260 ft.

Jan. 29, 1963	229.60	Dec. 20, 1963	222.64	Dec. 29, 1964	223.14
Feb. 26	222.30	Jan. 22, 1964	223.05	Jan. 26, 1965	223.07
Mar. 26	223.00	Mar. 27	223.11	Feb. 24	222.95
Apr. 24	222.24	Apr. 27	223.26	Mar. 29	223.26
May 24	222.48	May 28	223.45	Apr. 28	223.03
June 24	222.67	June 17	223.42	May 26	222.78
July 24	222.95	24	223.47	June 30	223.68
Aug. 27	223.02	July 28	224.61	July 28	223.50
Sept. 26	222.79	Aug. 26	224.48	Aug. 22	224.25
Oct. 30	222.82	Sept. 23	224.08	Sept. 28	223.52
Nov. 29	222.58	Oct. 26	223.67	Oct. 25	223.41
Dec. 12	222.58	Nov. 24	223.38	Nov. 22	222.99

7N/35W-28K2. Depth of well 232.9 ft April 27, 1966. Altitude about 89 ft.

May 15, 1958	14.42	June 2, 1959	15.22	July 25, 1961	16.19
16	14.40	24	15.30	Aug. 25	16.20
19	14.40	July 31	15.38	Sept. 28	16.30
20	14.42	Aug. 28	15.51	Oct. 25	16.30
21	14.37	Sept. 29	15.50	Nov. 24	16.23
22	14.34	Oct. 28	15.55	Dec. 28	16.15
28	14.42	Nov. 25	15.54	Jan. 23, 1962	16.10
June 3	14.44	Dec. 23	14.92	Feb. 27	15.80
13	14.62	Jan. 28, 1960	15.55	Mar. 29	14.40
25	14.55	Feb. 26	15.31	Apr. 24	14.58
July 15	14.74	Mar. 31	15.43	May 28	14.88
17	14.72	Apr. 29	15.39	June 27	15.07
31	14.90	May 26	15.50	July 23	15.27
Aug. 19	14.88	June 22	15.74	Aug. 29	15.49
28	15.90	July 28	15.50	Sept. 26	15.61
Sept. 10	14.92	Aug. 24	15.82	Oct. 23	15.77
16	14.80	Oct. 27	16.01	Nov. 26	15.83
Oct. 29	15.09	Nov. 28	15.72	Dec. 26	15.93
Nov. 25	15.13	Dec. 28	15.02	Jan. 29, 1963	15.97
Dec. 30	15.22	Jan. 24, 1961	15.78	Feb. 26	15.80
Jan. 30, 1959	15.14	Feb. 24	15.31	Mar. 26	15.74
Feb. 27	14.97	Mar. 30	15.93	Apr. 24	15.59
Mar. 12	15.02	Apr. 25	15.94	May 24	15.73
Apr. 8	15.08	May 26	15.73	June 24	15.75
30	15.05	June 27	16.05	July 25	16.00

Date	Water level	Date	Water level	Date	Water level
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TN/35W-28K2.--Continued

Aug. 27, 1963	16.24	June 17, 1964	16.77	Mar. 29, 1965	17.16
Sept. 26	16.29	24	16.79	Apr. 28	16.94
Oct. 30	16.42	July 28	16.88	May 26	17.08
Nov. 29	16.33	Aug. 26	17.92	June 30	17.25
Dec. 12	16.44	Sept. 23	16.95	July 28	17.32
Dec. 20	16.51	Oct. 26	17.07	Aug. 3	17.28
Jan. 22, 1964	16.52	Nov. 24	16.95	22	17.38
Feb. 27	16.61	Dec. 29	17.05	Sept. 28	17.50
Mar. 27	16.56	Jan. 26, 1965	17.08	Oct. 25	17.54
Apr. 27	16.59	Feb. 24	17.12	Nov. 22	17.25
May 28	16.71				

TN/35W-28R1. Depth of well 510 ft April 27, 1966. Altitude about 120 ft.

Jan. 4, 1963	58.00	Dec. 20, 1963	59.20	Feb. 25, 1965	60.00
Feb. 26	58.20	Jan. 22, 1964	58.13	Mar. 29	60.12
Mar. 26	58.52	Feb. 27	59.22	May 26	60.20
Apr. 24	58.59	Mar. 27	59.33	June 30	60.38
May 24	58.76	Apr. 27	59.47	July 28	60.53
June 24	58.90	May 26	59.61	Aug. 3	60.41
July 25	59.05	Aug. 31	60.22	22	60.59
Aug. 27	59.26	Sept. 25	60.20	Sept. 28	60.68
Sept. 26	59.15	Oct. 26	60.07	Oct. 25	60.70
Oct. 20	59.18	Nov. 24	60.05	Nov. 30	60.27
Nov. 29	56.10	Dec. 29	59.93	Dec. 28	60.27
Dec. 11	58.1	Jan. 27, 1965	60.00		

TN/35W-30G1. Depth of well 276.9 ft April 27, 1966. Altitude about 130 ft.

Apr. 18, 1958	196.00	May 2, 1958	98.03	Aug. 21, 1958	97.34
19	172.30	3	97.94	Sept. 16	97.30
21	125.80	9	97.87	Apr. 8, 1959	97.31
22	107.01	16	97.74	30	97.28
23	102.10	28	97.64	Oct. 28	97.05
24	100.17	28	97.68	Jan. 28, 1960	97.00
25	99.21	30	97.66	Apr. 29	96.90
26	98.92	June 14	97.42	July 29	96.95
28	98.40	18	97.40	Nov. 28	96.88
29	98.24	25	97.41	Mar. 30, 1961	96.89
30	98.18	July 17	97.37	Oct. 30, 1963	97.30
May 1	98.07	31	98.34	Dec. 12	97.15

See footnotes at end of table.

Date	Water level	Date	Water level	Date	Water level
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7N/35W-30G1.--Continued

Jan. 22, 1964	97.19	Jan. 26, 1965	97.17	July 28, 1965	97.25
Apr. 27	97.20	Apr. 28	97.20	Aug. 2	97.24
July 31	97.22				

7N/35W-31J1. Depth of well 625 ft March 12, 1963; 557.5 ft April 26, 1966. Altitude about 160 ft.

Jan. 4, 1963	66.49	Dec. 20, 1963	63.16	Dec. 29, 1964	50.40
8	61.98	Jan. 22, 1964	58.12	Jan. 26, 1965	50.34
29	59.14	Feb. 27	55.98	Feb. 24	50.33
Feb. 26	56.78	Mar. 27	54.83	Mar. 29	50.32
Mar. 20	55.39	Apr. 27	53.88	Apr. 28	50.20
May 24	52.14	May 28	53.12	May 26	50.20
June 24	51.14	June 17	52.62	June 30	50.27
July 25	50.29	July 31	51.83	July 28	50.25
Aug. 30	49.42	Aug. 28	51.41	Aug. 2	50.29
Sept. 26	48.82	Sept. 23	51.05	Aug. 22	50.69
Oct. 30	48.18	Oct. 28	50.69	Sept. 28	50.35
Dec. 11	57.5	Nov. 24	50.46	Oct. 28	50.35

7N/35W-32N1. Depth of well 300 ft May 27, 1958; 214.8 ft April 26, 1966. Altitude about 175 ft.

May 28, 1958	9.39	June 2, 1959	7.42	Feb. 24, 1961	6.48
June 3	9.29	24	7.48	Mar. 30	6.55
6	9.32	July 31	7.63	Apr. 25	6.69
14	9.33	Aug. 28	7.66	May 26	6.91
18	9.37	Sept. 29	7.62	July 25	6.97
25	9.47	Oct. 28	7.70	Aug. 25	7.45
July 17	9.29	Nov. 25	7.69	Sept. 28	7.25
23	9.23	Dec. 23	7.54	Nov. 24	7.42
31	9.19	Jan. 28, 1960	7.00	July 23, 1962	6.15
Aug. 21	9.17	Feb. 26	6.62	Aug. 29	6.40
Sept. 10	9.05	Mar. 31	6.70	Sept. 26	6.44
Oct. 29	8.72	June 22	6.96	Oct. 22	6.45
Nov. 25	8.58	July 28	7.25	Nov. 26	6.50
Dec. 31	8.42	Aug. 24	7.27	Jan. 29, 1963	6.38
Jan. 30, 1959	8.28	Oct. 27	7.31	Feb. 26	6.25
Feb. 27	7.73	Nov. 28	6.68	Mar. 20	6.12
Apr. 8	7.11	Dec. 28	6.57	May 24	6.20
30	7.15	Jan. 24, 1961	6.65	June 24	6.24

Date	Water level	Date	Water level	Date	Water level
7N/35W-32N1.--Continued					
July 25, 1963	6.26	June 17, 1964	6.39	Mar. 29, 1965	6.37
Aug. 30	6.37	July 31	6.52	Apr. 28	6.19
Sept. 26	6.35	Aug. 28	6.65	May 26	6.23
Oct. 30	6.41	Sept. 23	6.74	June 30	6.40
Dec. 20	6.36	Oct. 28	6.77	July 28	6.48
Jan. 22, 1964	6.25	Nov. 24	6.51	Aug 2	6.47
Feb. 27	6.34	Dec. 29	6.38	22	6.57
Mar. 27	6.25	Jan. 26, 1965	6.38	Sept. 28	6.75
Apr. 27	6.29	Feb. 25	6.32	Oct. 25	6.87
May 28	6.38				

7N/35W-33J1. Depth of well 380 ft. June 18, 1958; 186.0 ft April 27, 1966. Altitude about 177 ft.

June 19, 1958	111.50	Jan. 24, 1961	119.10	July 25, 1963	121.50
26	111.62	Feb. 24	118.06	Sept. 26	120.12
30	111.50	Mar. 30	118.54	Oct. 30	121.24
July 8	111.54	Apr. 25	118.87	Nov. 29	120.40
15	111.55	June 27	124.40	Dec. 20	120.66
17	111.54	July 25	124.45	Jan. 22, 1964	119.48
31	111.52	Aug. 25	122.10	Feb. 27	121.33
Sept. 16	111.56	Sept. 28	118.46	Mar. 27	120.34
Oct. 29	112.36	Oct. 25	121.24	May 26	122.43
Nov. 25	109.87	Dec. 28	117.72	June 24	121.62
Apr. 8, 1959	112.65	Jan. 16, 1962	118.14	July 28	122.91
30	112.45	Feb. 27	119.35	Aug. 26	123.90
June 2	113.15	Mar. 14	117.83	Sept. 25	124.66
24	113.80	Apr. 18	118.41	Oct. 28	123.79
July 21	113.52	May 16	118.19	Nov. 24	121.82
Aug. 28	115.68	June 27	119.84	Dec. 29	121.69
Sept. 29	114.01	July 23	120.95	Jan. 27, 1965	122.15
Oct. 28	115.52	Aug. 29	121.22	Feb. 25	122.12
Nov. 25	115.97	Sept. 26	131.83	Mar. 29	122.76
Dec. 23	115.09	Oct. 22	119.53	Apr. 28	122.63
Jan. 28, 1960	115.46	Nov. 26	119.50	May 26	130.28
Feb. 26	113.91	Dec. 26	119.19	June 30	124.98
Mar. 31	114.55	Jan. 29, 1963	120.08	July 28	123.63
May 26	114.81	Feb. 26	119.17	Aug. 22	123.99
July 28	116.38	Mar. 26	121.21	Sept. 28	124.03
Aug. 24	118.58	Apr. 24	121.28	Oct. 25	124.78
Oct. 27	119.46	May 24	122.31	Nov. 30	121.46
Nov. 28	118.67	June 24	121.20	Dec. 28	123.93
Dec. 28	118.03				

See footnotes at end of table.

Date	Water level	Date	Water level	Date	Water level
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7N/35W-33J2. Depth of well 465 ft October 17, 1958. Altitude about 177 ft.

Oct. 8, 1958	114	Oct. 27, 1960	a162.1	July 23, 1962	b149.79
29	112.94	Nov. 28	b171.2	Aug. 29	148.40
Dec. 30	113.10	Apr. 25, 1961	a141.40	Oct. 22	129.90
Jan. 30, 1959	c121.48	May 12	131.50	Dec. 26	124.60
Feb. 27	c122.62	26	a138.50	Jan. 29, 1963	144.30
Mar. 12	c114.31	June 27	a133.20	June 24	138.90
June 10	p126	July 25	130.30	Sept. 26	125.55
24	p128	Aug. 25	b144.65	Oct. 30	b129.37
July 31	p128	Sept. 28	123.69	Nov. 29	130.60
Sept. 29	122.05	Oct. 25	127.23	Dec. 20	142.60
Mar. 31, 1960	e159	Nov. 24	123.78	Jan. 22, 1964	121.38
Apr. 27	121.35	Dec. 28	122.84	Feb. 27	140.17
May 26	b120.28	Feb. 27, 1962	126.10	Mar. 27	126.80
June 22	b131.90	Mar. 29	122.00	Apr. 27	131.40
July 28	123.65	Apr. 24	a166.40	May 28	138.96
Aug. 24	a158.50	May 28	125.40	Oct. 28	149.64
25	a160.69	June 27	140.90	Sept. 28, 1965	151.0
Oct. 7	b139.8				

7N/35W-33J3. Depth of well 518 ft April 27, 1966. Altitude about 220 ft.

Sept. 7, 1960	130.61	Dec. 28, 1961	144.29	Jan. 22, 1964	138.04
Oct. 7	153.68	Jan. 23, 1962	149.90	Mar. 27	139.65
27	150.88	Feb. 27	144.30	Apr. 27	150.47
Nov. 28	142.08	Mar. 29	139.80	June 17	c165.37
Dec. 28	136.39	Apr. 24	154.20	Sept. 25	161.44
Jan. 24, 1961	c138.23	Oct. 22	166.80	Oct. 28	164.74
Feb. 24	c135.89	Jan. 29, 1963	161.16	Nov. 24	145.41
Mar. 30	c135.99	Apr. 24	152.04	Dec. 29	147.99
Apr. 25	c135.87	May 24	170.45	July 7, 1965	148
May 26	c146.00	July 25	155.60	Oct. 25	158.37
June 27	c136.50	Aug. 26	159.90	Nov. 30	152.39
July 25	a254.50	Sept. 26	143.49		
Oct. 25	144.29	Nov. 29	b160.50		

See footnotes at end of table.

Date	Water level	Date	Water level	Date	Water level
7N/35W-33R1. Depth of well 425 ft April 27, 1966. Altitude about 216 ft.					
Apr. 28, 1958	110	Nov. 25, 1958	110.23	July 23, 1962	112.63
30	111.11	Jan. 30, 1959	109.66	Aug. 29	112.84
May 1	109.95	Feb. 27	109.62	Sept. 26	112.70
2	109.26	Apr. 30	109.08	Oct. 22	112.27
3	109.0	June 2	108.96	Nov. 26	k112.25
5	109.23	24	109.25	Dec. 26	112.31
6	b121.00	July 31	109.69	Jan. 29, 1963	112.30
7	116.34	Aug. 28	109.73	Feb. 26	111.65
8	114.31	Sept. 29	109.72	Mar. 26	111.66
9	113.42	Oct. 28	k109.79	Apr. 24	111.26
10	112.70	Nov. 25	109.92	May 24	111.86
12	111.80	Dec. 23	109.77	June 24	k112.30
13	111.46	Jan. 28, 1960	109.49	July 25	112.86
14	111.10	Feb. 26	109.65	Aug. 30	112.47
15	110.84	Mar. 31	109.80	Oct. 28	112.01
16	110.69	Apr. 29	110.24	Nov. 29	111.44
19	110.27	May 26	110.24	Dec. 20	111.62
20	110.12	June 22	110.24	Jan. 22, 1964	111.55
21	b116.70	July 28	111.70	Feb. 27	112.00
22	114.06	Aug. 24	113.48	Mar. 27	112.16
23	112.95	Oct. 7	k115.08	Apr. 27	112.45
26	111.44	27	113.30	May 26	112.53
28	111.08	Nov. 28	113.04	June 25	112.88
June 3	110.22	Dec. 28	112.62	July 28	113.45
4	110.09	Jan. 24, 1961	112.24	Aug. 26	113.82
5	114.35	Feb. 24	112.18	Sept. 23	113.82
6	b157.44	Mar. 30	111.99	Oct. 28	113.99
7	138.56	Apr. 25	112.24	Nov. 24	113.95
9	127.06	May 26	112.73	Dec. 29	112.36
10	124.10	June 27	112.45	Jan. 28, 1965	112.00
11	121.95	July 25	112.52	Feb. 25	112.50
12	120.06	Aug. 25	113.45	Mar. 29	113.16
13	118.94	Sept. 28	114.57	Apr. 28	c112.57
14	117.90	Oct. 25	113.83	May 26	c113.57
16	116.28	Nov. 24	113.34	June 30	c114.20
25	112.55	Dec. 28	112.55	July 28	c114.37
July 8	110.61	Jan. 23, 1962	k112.10	Aug. 3	114.44
17	110.10	Feb. 27	k111.63	22	114.16
Aug. 28	109.38	Mar. 14	k111.88	Sept. 28	c114.76
Sept. 10	109.28	Apr. 18	k112.47	Oct. 25	114.73
16	109.20	May 16	k113.12	Nov. 30	113.38
Oct. 29	110.87	June 27	113.04		

See footnotes at end of table.

Date	Water level	Date	Water level	Date	Water level
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7N/35W-35D2. Depth of well 152.4 ft April 27, 1966. Altitude about 70 ft.

Jan. 30, 1963	15.18	Dec. 20, 1963	14.38	Mar. 30, 1965	16.41
Feb. 26	13.83	Jan. 22, 1964	14.68	Apr. 28	15.44
Mar. 26	14.07	Feb. 27	15.19	May 26	15.65
Apr. 24	13.75	Mar. 27	15.53	June 20	16.60
May 24	15.40	Apr. 27	16.14	July 28	17.13
June 24	15.11	May 28	16.40	Aug. 3	17.21
July 25	15.61	Sept. 23	17.42	22	16.95
Aug. 27	15.81	Oct. 26	17.46	Sept. 28	17.09
Sept. 25	15.07	Nov. 24	16.19	Oct. 25	17.20
Oct. 28	14.88	Dec. 23	16.00	Nov. 22	16.05
Nov. 29	14.25	Jan. 26, 1965	15.76		
Dec. 12	14.26	Feb. 24	15.65		

8N/34W-16G1. Depth of well 687 ft April 30, 1958. Altitude about 291 ft.

Apr. 30, 1958	Flowing	Nov. 24, 1959	+7.94	Mar. 29, 1961	+11.70
28, 1959	+7.28	Dec. 29	+8.06	Apr. 26	+11.45
May 27	+7.48	May 26, 1960	+8.43	June 28	+12.00
June 22	+7.60	June 21	+8.13	July 26	+11.52
July 27	+7.56	July 28	+8.53	Aug. 24	+12.60
Aug. 25	+7.64	Aug. 31	+10.45	Sept. 27	+13.27
Oct. 28	+7.89	Feb. 20, 1961	+11.50	Aug. 4, 1965	+5.64

8N/34W-17K1. Altitude about 273 ft.

Feb. 17, 1958	Flowing	Oct. 26, 1960	Flowing	Mar. 10, 1961	Flowing
Sept. 11, 1959	Flowing				

8N/35W-3Z4. Depth of well 182 ft April 23, 1958. Altitude about 402 ft.

Apr. 24, 1958	g77.4	Apr. 26	g83.5	Apr. 28, 1958	g74.5
25	g77.5	27	g78.5	May 1	g75.0

8N/35W-10J1. Depth of well 42 ft June 21, 1965. Altitude about 118 ft.

June 29, 1965	11.77	Aug. 31, 1965	10.12	Oct. 29, 1965	10.42
July 30	9.87	Sept. 29	10.22	Nov. 30	9.51

See footnotes at end of table.

Date	Water level	Date	Water level	Date	Water level
8N/35W-14Z1. Depth of well 96 ft November 20, 1962. Altitude is 487.2 ft.					
Nov. 21, 1962 26	g42.5 g44.0	Nov. 30, 1962	g44.0	Dec. 6, 1962	g44.0
8N/35W-15E3. Depth of well 73 ft in 1965. Altitude about 50 ft.					
June 29, 1965 July 30	41.74 25.90	Aug. 31, 1965 Sept. 29	18.09 14.40	Oct. 29, 1965	12.58
8N/35W-16E1. Depth of well 50 ft June 21, 1965. Altitude about 50 ft.					
June 29, 1965 July 30	28.70 6.82	Aug. 31, 1965 Sept. 29	4.05 4.26	Oct. 29, 1965 Nov. 30	4.47 2.34
8N/35W-28Z1. Depth of well 94 ft November 15, 1962. Altitude is 363.9 ft.					
Nov. 16, 1962 17	g16.5 g24.5	Nov. 18, 1962 21	g20.0 g55.0	Dec. 6, 1962	g54.0
9N/35W-18Z3. Depth of well 110 ft December 4, 1962. Altitude is 74.8 ft.					
Dec. 5, 1962 6	g32.4 g32.2	Dec. 12, 1962	g32.0	Dec. 17, 1962	g32.4
9N/36W-2Z1. Depth of well 107 ft November 15, 1962. Altitude is 146.7 ft.					
Nov. 16, 1962 23	g87.2 g87.1	Nov. 30, 1962	g86.8	Dec. 17, 1962	g87.1

See footnotes at end of table.

Date	Water level	Date	Water level	Date	Water level
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9N/36W-12Z1. Depth of well 124 ft November 21, 1962. Altitude is 261.2 ft.

Nov. 21, 1962	g115.3	Nov. 30, 1962	g83.6	Dec. 17, 1962	g43.8
23	g100.4				

- a. Well being pumped.
- b. Well pumped recently.
- c. Nearby well being pumped.
- d. Nearby well pumped recently.
- e. Estimated.
- g. Measurement by outside agency or person.
- k. Measurement from water-level recorder chart.
- p. Measurement questionable.

Table 4.--References to publications containing
water-level measurements in wells

[For complete citation see selected references]

Well number	Reference	Period of record
7N/34W-18L1	La Rocque and others (1950)	1930-34, 41
18L3	La Rocque and others (1950)	1930-34
19H1	La Rocque and others (1950)	1930-34
20J1	La Rocque and others (1950)	1930-42
20N1	La Rocque and others (1950)	1932-42
20N2	U.S. Geological Survey (1957-64)	1962-64
20N3	U.S. Geological Survey (1957-64)	1962-64
21E1	U.S. Geological Survey (1951), Water-Supply Paper 1131	1948
	U.S. Geological Survey (1952), Water-Supply Paper 1161	1949
	U.S. Geological Survey (1953), Water-Supply Paper 1170	1950
	U.S. Geological Survey (1954), Water-Supply Paper 1196	1951
	U.S. Geological Survey (1955), Water-Supply Paper 1226	1952
	U.S. Geological Survey (1956), Water-Supply Paper 1270	1953
	U.S. Geological Survey (1957), Water-Supply Paper 1326	1954
	U.S. Geological Survey (1957), Water-Supply Paper 1409	1955
	U.S. Geological Survey (1957-64)	1956-64
21J1	La Rocque and others (1950)	1930-34, 41
	U.S. Geological Survey (1943), Water-Supply Paper 941	1941
	U.S. Geological Survey (1944), Water-Supply Paper 949	1942
21N1	La Rocque and others (1950)	1930-42
21N3	La Rocque and others (1950)	1930-31
21N4	La Rocque and others (1950)	1930-31
21N5	La Rocque and others (1950)	1930-31
21P1	La Rocque and others (1950)	1930-31
29A2	La Rocque and others (1950)	1930-31
29A3	U.S. Geological Survey (1951), Water-Supply Paper 1101	1947
	U.S. Geological Survey (1951), Water-Supply Paper 1131	1948

Well number	Reference	Period of record
7N/35W-13N1	La Rocque and others (1950)	1930-34, 41
15P1	La Rocque and others (1950)	1930-41
15R1	La Rocque and others (1950)	1930-41
16G1	La Rocque and others (1950)	1930-41
17B1	La Rocque and others (1950)	1930-41
17B2	La Rocque and others (1950)	1930
18H1	U.S. Geological Survey (1957-64)	1963
18J1	La Rocque and others (1950)	1930-42
	U.S. Geological Survey (1944), Water-Supply Paper 949	1942
	U.S. Geological Survey (1945), Water-Supply Paper 991	1943
	U.S. Geological Survey (1947), Water-Supply Paper 1021	1944
	U.S. Geological Survey (1949), Water-Supply Paper 1028	1945
	U.S. Geological Survey (1949), Water-Supply Paper 1076	1946
	U.S. Geological Survey (1951), Water-Supply Paper 1101	1947
	U.S. Geological Survey (1951), Water-Supply Paper 1131	1948
	U.S. Geological Survey (1952), Water-Supply Paper 1161	1949
18J2	U.S. Geological Survey (1957-64)	1963-64
20H1	La Rocque and others (1950)	1930-33
20J1	La Rocque and others (1950)	1930-42
	U.S. Geological Survey (1944), Water-Supply Paper 949	1942
	U.S. Geological Survey (1945), Water-Supply Paper 991	1943
	U.S. Geological Survey (1947), Water-Supply Paper 1021	1944
	U.S. Geological Survey (1949), Water-Supply Paper 1028	1945
	U.S. Geological Survey (1949), Water-Supply Paper 1076	1946

Well number	Reference	Period of record
7N/35W-20J1	U.S. Geological Survey (1951), Water-Supply Paper 1101	1947
	U.S. Geological Survey (1951), Water-Supply Paper 1131	1948
	U.S. Geological Survey (1952), Water-Supply Paper 1161	1949
	U.S. Geological Survey (1953), Water-Supply Paper 1170	1950
	U.S. Geological Survey (1954), Water-Supply Paper 1196	1951
	U.S. Geological Survey (1955), Water-Supply Paper 1226	1952
	U.S. Geological Survey (1956), Water-Supply Paper 1270	1953
	U.S. Geological Survey (1957), Water-Supply Paper 1326	1954
	U.S. Geological Survey (1957), Water-Supply Paper 1409	1955
	U.S. Geological Survey (1957-64)	1956-64
20J3	La Rocque and others (1950)	1930-31
20K2	La Rocque and others (1950)	1930-34
21D1	La Rocque and others (1950)	1930-36, 41
21G1	La Rocque and others (1950)	1930-31
	U.S. Geological Survey (1944), Water-Supply Paper 949	1942
21H1	La Rocque and others (1950)	1930-41
21L1	La Rocque and others (1950)	1941-42
21L2	La Rocque and others (1950)	1930-32
21L4	U.S. Geological Survey (1957-64)	1961-64
21M1	La Rocque and others (1950)	1930-42
21R1	La Rocque and others (1950)	1930-42
	U.S. Geological Survey (1944), Water-Supply Paper 949	1942
	U.S. Geological Survey (1945), Water-Supply Paper 991	1943
22A1	La Rocque and others (1950)	1930-34
22F1	La Rocque and others (1950)	1930

Well number	Reference	Period of record
7N/35W-22F2	U.S. Geological Survey (1951), Water-Supply Paper 1101	1947
	U.S. Geological Survey (1951), Water-Supply Paper 1131	1948
	U.S. Geological Survey (1952), Water-Supply Paper 1161	1949
	U.S. Geological Survey (1953), Water-Supply Paper 1170	1950
	U.S. Geological Survey (1954), Water-Supply Paper 1196	1951
	U.S. Geological Survey (1955), Water-Supply Paper 1226	1952
22M1	U.S. Geological Survey (1951), Water-Supply Paper 1101	1947
	U.S. Geological Survey (1951), Water-Supply Paper 1131	1948
	U.S. Geological Survey (1952), Water-Supply Paper 1161	1949
	U.S. Geological Survey (1953), Water-Supply Paper 1170	1950
	U.S. Geological Survey (1954), Water-Supply Paper 1196	1951
	U.S. Geological Survey (1955), Water-Supply Paper 1226	1952
	U.S. Geological Survey (1956), Water-Supply Paper 1270	1953
	U.S. Geological Survey (1957), Water-Supply Paper 1326	1954
	U.S. Geological Survey (1957), Water-Supply Paper 1409	1955
	U.S. Geological Survey (1957-64)	1956-62
22M2	U.S. Geological Survey (1951), Water-Supply Paper 1101	1947
	U.S. Geological Survey (1951), Water-Supply Paper 1131	1948
	U.S. Geological Survey (1952), Water-Supply Paper 1161	1949
	U.S. Geological Survey (1953), Water-Supply Paper 1170	1950

Well number	Reference	Period of record
7N/35W-22M2	U.S. Geological Survey (1954), Water-Supply Paper 1196	1951
	U.S. Geological Survey (1955), Water-Supply Paper 1226	1952
	U.S. Geological Survey (1953), Water-Supply Paper 1270	1953
	U.S. Geological Survey (1957), Water-Supply Paper 1326	1954
	U.S. Geological Survey (1957), Water-Supply Paper 1409	1955
	U.S. Geological Survey (1957-64)	1956
22P1	La Rocque and others (1950)	1930-42
27C2	La Rocque and others (1950)	1930-32, 41
	U.S. Geological Survey (1943), Water-Supply Paper 941	1941
	U.S. Geological Survey (1944), Water-Supply Paper 949	1942
	U.S. Geological Survey (1945), Water-Supply Paper 991	1943
	U.S. Geological Survey (1947), Water-Supply Paper 1021	1944
	U.S. Geological Survey (1949), Water-Supply Paper 1028	1945
	U.S. Geological Survey (1949), Water-Supply Paper 1076	1946
	U.S. Geological Survey (1951), Water-Supply Paper 1101	1947
	U.S. Geological Survey (1951), Water-Supply Paper 1131	1948
	U.S. Geological Survey (1952), Water-Supply Paper 1161	1949
	U.S. Geological Survey (1954), Water-Supply Paper 1196	1951
27C3	La Rocque and others (1950)	1932-34 1939-42
	U.S. Geological Survey (1956), Water-Supply Paper 1270	1953
	U.S. Geological Survey (1957), Water-Supply Paper 1326	1954

Well number	Reference	Period of record
7N/35W-27C3	U.S. Geological Survey (1957), Water-Supply Paper 1409	1955
	U.S. Geological Survey (1957-64)	1956-64
27F1	La Rocque and others (1950)	1930-32
27H1	La Rocque and others (1950)	1935-42
27J1	La Rocque and others (1950)	1930-35
27K1	La Rocque and others (1950)	1941-42
27K2	La Rocque and others (1950)	1930-42
28A1	La Rocque and others (1950)	1930-34
28H1	La Rocque and others (1950)	1930-34
28H2	La Rocque and others (1950)	1930-34
	U.S. Geological Survey (1956), Water-Supply Paper 1270	1953
	U.S. Geological Survey (1957), Water-Supply Paper 1326	1954
	U.S. Geological Survey (1957), Water-Supply Paper 1409	1955
	U.S. Geological Survey (1957-64)	1956-59
28K1	La Rocque and others (1950)	1930-34
33A1	La Rocque and others (1950)	1930-32
33C1	La Rocque and others (1950)	1932-34
35C2	U.S. Geological Survey (1951), Water-Supply Paper 1101	1947
	U.S. Geological Survey (1951), Water-Supply Paper 1131	1948
	U.S. Geological Survey (1952), Water-Supply Paper 1161	1949
	U.S. Geological Survey (1953), Water-Supply Paper 1170	1950
	U.S. Geological Survey (1954), Water-Supply Paper 1196	1951
	U.S. Geological Survey (1955), Water-Supply Paper 1226	1952
	U.S. Geological Survey (1956), Water-Supply Paper 1270	1953
	U.S. Geological Survey (1957), Water-Supply Paper 1326	1954
35C3	La Rocque and others (1950)	1930-41

Well number	Reference	Period of record
7N/35W-35C4	U.S. Geological Survey (1951), Water-Supply Paper 1101	1947
	U.S. Geological Survey (1951), Water-Supply Paper 1131	1948
	U.S. Geological Survey (1952), Water-Supply Paper 1161	1949
	U.S. Geological Survey (1953), Water-Supply Paper 1170	1950
	U.S. Geological Survey (1954), Water-Supply Paper 1196	1951
	U.S. Geological Survey (1955), Water-Supply Paper 1226	1952
	U.S. Geological Survey (1956), Water-Supply Paper 1270	1953
	U.S. Geological Survey (1957), Water-Supply Paper 1326	1954
	U.S. Geological Survey (1957), Water-Supply Paper 1409	1955
	U.S. Geological Survey (1957-64)	1956-60

[illegible]

Well number	Date of collection	Depth of well (feet)	Results in parts per million (ppm)															pH	Specific conductance (micromhos at 25°C)	Analyzing laboratory and sample number		
			Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Baron (B)	Dissolved solids						
																Calculated (Sum of determined constituents)	Residue on evaporation at 100°C				Hardness as CaCO ₃	
																						Hardness as CaCO ₃
U.S. Public Health Service drinking-water standards (1962)																						
7N/34W-13J1	10-11-55	71	48	0.03	103	24	107	6.4	285	0	116	163	0.1	8.5	0.34	716	738	354	120	39	1,180	GS 17143
	10-23-56	68	48	0	113	26	107	6.7	302	0	114	177	.2	1.0	.28	742	831	388	140	37	1,250	GS 20920
	4-24-58	70	43	.03	95	32	97	6.6	278	0	118	165	.2	5.7	.28	701	742	370	142	36	1,140	GS 25753
	4-5-60	65	33		110	24	98	4.6	286	0	144	147	.2	0	.14	702	814	375	141	36	1,160	DWR T-4621
	3-3-61		33		116	59	62	5.0	301	0	228	136	.1	5.0	.39	792	808	531	284	31	1,230	DWR L-1117
	3-21-61		46	.02	126	26	87	5.3	286	0	190	125	.1	4.4	.2	747	782	488	185	31	1,180	GS 36457
	5-2-61		48	0	121	31	91	4.7	282	0	178	144	.2	4.4	.3	756	799	428	197	34	1,210	GS 36957
	8-16-61		45	0	165	46	144	2.4	407	0	245	218	.1	7	.4	1,070	1,200	600	266	34	1,740	GS 37744
	8-25-61		48		154	50	154	5.5	346	0	296	229	.4	2.4	.32	1,110	1,190	588	274	36	1,800	DWR L3047
	10-12-61		38		128	27	105	9.3	287	0	204	145	.1	3.3	.31	801	842	429	194	34	1,200	DWR L-2093
13J2 13J3	11-14-61	71	48	.03	135	28	94	5.9	294	0	206	148	.1	5.0	.3	815	855	454	213	31	1,280	GS 38539
	6-6-62	69	36		130	27	103	5.0	299	0	200	152	.1	4.2	.3	805	860	438	193	34	1,270	DWR L-3199
	11-28-62	68	49	.02	168	35	89	4.8	324	0	276	125	.2	6.2	.28	910	963	564	258	25	1,360	GS 41997
	7-22-63	70	55		143	37	110	6.2	320	0	238	158	.4	6.2	.28	912	891	510	248	32	1,400	DWR 15839
	9-30-64		44	.01	196	44	100	6	369	0	323	169	.1	3	.29	1,020	1,060	667	365	24	1,390	DWR L-7815
	11-7-65		45		185	40	90	5.0	344	0	306	151	.2	2.1	.30	992	1,010	625	345	24	1,490	GS 48003
	7-7-65		45	0	134	45	110	6	318	0	278	178	.4	4.5	.30	878	996	519	316	31	1,450	DWR R-977
	10-1-65	71	47	0	172	36	54	6.1	350	0	292	180	.4	4.9	.2	1,020	1,070	576	289	29	1,540	GS 50978
	11-16-65		50		173	39	112	5.5	354	0	284	175	.2	3.5	.2	670	695	340	300	37	1,570	GS 51141
	12-11-59	101	50		94	26	94	5.6	245	0	146	132	.2	6	.19	670	695	340	29	37	1,100	DWR 11191
13J2 13J3	4-5-60	66	29	.02	170	68	133	5.7	483	0	302	195	.5	2.0	.42	1,140	1,210	704	29	28	1,840	DWR 11417
	8-3-60		36		181	73	138	5.4	500	0	346	205	.3	3.0	.5	1,230	1,360	750	340	28	1,840	GS 34578
	8-31-60		47	.01	111	54	67	6.8	320	0	188	146	.1	2.7	.3	781	801	500	238	22	1,230	GS 34640
	9-22-60		36	.05	93	29	99	6.8	245	0	169	146	0	6.2	.25	706	724	354	153	37	1,170	DWR L-418
	10-18-60	68	59	.03	194	62	139	6.5	470	0	365	178	.1	5.6	.4	1,240	1,310	740	355	29	1,880	GS 35101
	11-22-60		44	.01	83	44	100	2.7	234	0	170	132	.2	3.3	.3	744	824	412	171	34	1,230	GS 35376
	11-28-60		38		131	50	123	5.8	381	0	246	160	.1	3.6	.3	945	996	533	212	33	1,460	GS 35368
	1-9-61		32	.10	159	48	101	5.0	356	0	380	190	0	1.7	.3	960	1,060	592	300	27	1,520	GS 35886
	2-23-61		36	.06	192	67	136	3.6	468	0	248	190	.1	3.3	.4	1,240	1,340	756	372	28	1,970	GS 36175
	3-2-61	65	32		149	66	147	5.9	336	0	377	200	.4	8.7	.31	1,150	1,220	645	370	33	1,820	DWR R-3877
13J4	3-21-61		35	.05	162	54	122	5.2	414	0	294	178	.1	4.4	.5	1,060	1,130	624	285	30	1,640	GS 36455
	5-2-61		39		168	65	135	5.0	479	0	328	204	.2	7.7	.5	1,210	1,270	745	352	28	1,860	GS 36958
	8-16-61		46	0	167	45	146	4.0	408	0	246	215	.1	1.2	.4	1,070	1,200	600	265	34	1,740	GS 37743
	11-14-61		47	.06	145	34	107	7.0	322	0	231	151	.2	5.3	.3	887	931	500	236	31	1,580	GS 38534
	5-1-62		46	.10	148	33	115	6.8	324	0	242	156	.2	5.3	.3	913	952	505	239	33	1,590	GS 40071

Well number	Date of collection	Depth of well (feet)	Water temperature (°F)	Results in parts per million (ppm)													pH	Specific conductance (micromhos at 25°C)	Analyzing laboratory and sample number						
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)				Dissolved solids			Hardness as CaCO ₃	Noncarbonate hardness as CaCO ₃	Percent sodium
																				Calculated (Sum of determined constituents)	Residue on evaporation at 180°C				
U S Public Health Service drinking-water standards (1962)				0.3								250	250	1.3	45		500	500	500						
	7M/34W-1943	6- 6-62		37		146	30	115	5.5	310	0	229	171	0.1	1.0	0.38	888	924	490	235	34	1,400	7.2	DWR L-3197	
		9-21-62	67	42		152	35	110	5.3	308	0	279	165	.4	6.0	.28	947	1,050	524	271	31	1,400	7.7	DWR 3466	
		11-20-62	68	46		166	40	111	6.4	348	0	294	161	.2	6.8		1,000	989	580	295	29	1,500	7.4	GS 41645	
		11-28-62	69	55		155	49	108	6.3	348	0	285	166	.2	5.1	.3	992	1,050	590	305	28	1,510	7.2	GS 41998	
		7-22-63	68	55		160	45	119	6.6	343	0	305	163	.5	8.2	.27	1,030	1,050	584	303	30	1,540	7.6	DWR L-5646	
		11- 6-63	68	36		170	44	114	6.3	349	0	331	168	.2	5.8	.27	1,050	1,090	605	320	29	1,460	7.3	DWR L-5646	
		5-18-64	67	33		158	61	119	6.0	354	0	362	173	.2	4.4	.40	1,090	1,160	643	353	28	1,500	7.9	DWR L-6867	
		9-30-64			134	46	113	5	345	0	252	183		4.1	.27		898	1,030	525	260	32	1,400	7.6	DWR L-77351	
		11- 3-64		45		201	48	126	6.4	370	0	374	195	.3	3.9	.3	1,180	1,190	700	397	28	1,760	7.4	GS 48006	
		7- 7-65	69		173	56	125	6.6	323	0	360	198	.4	5	.26		1,080	1,280	663	398	29	1,730	7.4	DWR R-979	
		10- 1-65	70	44		166	52	127	6.7	272	0	422	192	.3	5.6	.1	1,150		628	405	30	1,690	7.9	GS 50974	
1312	11-16-65		46		228	42	133	6.5	382	0	412	180	.3	5.8	.3	1,240	1,340	740	427	28	1,850	7.7	GS 51144		
	5-17-59	156	43		129	36	1148		378	0	146	226	.3	0	.09	910	1,070	340	167			7.3	T A-6992		
	12-11-59	69	46		71	37	145	5.4	178	0	193	209	.2	4.5	.36	800	790	327		48	1,310	8.0	DWR 11148		
	4- 5-60	68	34		144	33	146	4.9	379	0	254	220	.1	0	.22	956	1,120	496	186	39	1,630	8.2	DWR T-4616		
	8- 3-60		45		155	45	151	4.8	428	0	254	220		1.5	.3	1,090	1,160	570	219	36	1,660	7.3	GS 34579		
	8-31-60		46		160	46	151	6.4	428	0	260	218	.1	1.5	.2	1,120	1,120	590	239	35	1,660	7.3	GS 34641		
	9-22-60	68	33		203	57	161	5.5	503	0	309	272	.1	1.3	.40	1,290	1,340	740	327	32	2,060	7.4	DWR L-437		
	10-18-60		61		79	19	261	12	415	0	316	154	.1	4.1	.3	1,110	1,170	276	0	66	1,700	8.0	GS 35102		
	11-17-60	70	40		124	50	141	4.8	369	0	216	193	.2	1.6	.3	972	1,040	516	197	37	1,560	7.5	GS 35371		
	1- 9-61		36		148	35	142	4.0	393	0	198	215	0	2.5	.3	975	1,040	512	190	37	1,580	7.7	GS 35885		
	2-23-61		43		132	33	130	3.6	372	0	174	204	.1	2.6	.2	906	960	466	161	38	1,480	7.5	GS 36173		
	3- 2-61	68	41		160	40	136	5.9	418	0	197	216	.4	6.8	.26	1,010	1,070	563	220	34	1,700	7.3	DWR R-3876		
3- 3-61	69	36		139	36	131	4.3	369	0	224	205	.1	2.7	.34	960	978	501	199	28	1,520	7.4	DWR L-1114			
3-21-61		37		198	52	158	5.2	482	0	286	260	.1	1.0	.7	1,240	1,320	706	311	33	1,950	7.4	GS 36458			
5- 2-61		44		253	73	182	5.0	532	0	368	345	.1	2.6	.4	1,540	1,700	930	494	30	2,360	7.3	GS 36956			
8-16-61		47		163	48	144	3.6	408	0	242	216	.1	1.0	.4	1,070	1,190	640	269	34	1,740	7.5	GS 37745			
8-18-61		50		128	31	96	5.4	290	0	194	141	.4	5.2	.23	794	836	447	209	32	1,280	7.6	DWR 13046			
10-12-61		36		158	48	152	3.3	367	0	295	221	.1	1.7	.45	1,100	1,180	590	289	36	1,640	7.5	DWR L-2119			
11-14-61	69	44		216	51	161	6.7	472	0	314	262	.4	2.7	.4	1,290	1,360	750	363	32	2,010	7.6	GS 38536			
5- 1-62		38		136	45	252	8.5	458	5	226	256	.4	6.0	1.4	1,240	1,280	525	141	51	1,950	8.3	GS 40070			
9-21-62		33		146	67	148	5.0	391	0	319	233	.1	0	.30		1,140	1,320	640	319	33	1,730	7.9	DWR 3465		

7M/34W-1913

Well number	Date of collection	Depth of well (feet)	Water temperature (°F)	Results in parts per million (ppm)															Percent sodium	Specific conductance (micromhos at 25°C)	pH	Analyzing laboratory and sample number			
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids						Hardness as CaCO ₃	Noncarbonate hardness as CaCO ₃	
																	Calculated (sum of determined constituents)	Residue on evaporation at 180°C							Hardness as CaCO ₃
7W/34W-1912	11-28-62	69	42	0.03	222	65	170	27	496	0	366	275	0.2	2.9	0.3	1,410	1,470	820	413	25	1,360	GS 41996			
	4- 3-63	69	39		145	50	149	5.9	302	0	344	218	.4	6.2	.69	1,110	1,110	570	323	36	1,560	DMR 1-4934			
	11- 6-63	68	37		173	55	162	5.5	406	0	340	233	.1	2.3	.38	1,240	1,260	657	324	35	2,000	DMR L-5648			
	5-18-64				194	53	158	6.6	437	0	321	245	.3	2.5	.39	1,200	1,310	700	342	33	1,880	DMR R-405			
	9-30-64				198	103	197	7	527	0	467	307	.1	0	.44	1,540	1,690	918	487	32	2,250	DMR L-7934			
	11- 3-64			.02	209	52	153	6.0	418	0	410	214	.2	1.4	.3	1,300	1,310	735	392	31	1,900	GS 47999			
	7- 7-65	69	44		132	63	154	6	287	0	366	256	.4	.8	.40	1,310	1,300	636	400	34	1,820	DMR R-976			
	10- 1-65	70	43	0	209	54	158	6.3	440	0	390	232	.3	2.2	.3	1,310	1,440	744	383	31	2,000	GS 50973			
	11-16-65	44		0	243	54	167	6.4	482	0	416	230	.2	2.8	.3	1,400	1,480	830	435	30	2,120	GS 51145			
	1948		144.5		111				225		145	185						393				7.3 A			
	1949				103				208		144	125						334				7.3 A			
	1950				96				232		106	128						326				7.3 A			
1951				108				273		132	108						364				7.3 A				
20K4	1-14-52				106	24			221		152	118					550	362	141	141		7.3 A			
	1-24-52								227		119	119						364	137			7.2 A			
	1-31-52								227		118	118						368	141			7.2 A			
	2- 7-52								223		150	121						360				7.2 A			
	2-14-52								221			122						362				7.4 A			
	2-20-52					23			223			116					608	374	151	151		7.3 A			
	2-20-52				106				220		152	118						364	144			7.3 A			
	2-27-52								216			116						344				7.2 A			
	2-27-52								222			116						364				7.2 A			
	3- 5-52											118										7.4 A			
	3- 5-52											115										7.3 A			
	3-20-52											112										7.3 A			
GS 13256	3-20-52								223			112						363	140			971	GS 13256		
	12-28-53											105						368				988	GS 17146		
	9-17-54	72	49	.03	108	23	68	3.5	268	0	142	120	0	.4	.15	627	649	366	146	29	971	GS 20919			
	10-11-55	73	50	0	116	22	66	3.2	270	0	126	102	0	0	.14	618	708	379	158	27	1,000	GS 25755			
	10-23-56	71	49	.02	102	28	66	3.7	262	0	125	102	.2	0	.20	625	639	370	155	28	974	GS 34577			
	4-24-58	72	50	.02	123	32	80	3.5	298	0	191	115	0	.1	.2	742	821	440	196	28	1,110	GS 34577			
	8- 3-60	72	50	.02	123	35	72	4.2	300	0	188	113	0	.3	.1	733	770	450	204	26	1,100	GS 34638			
	8-31-60	72	49	.02	123	35	72	4.2	300	0	188	113	0	.3	.1	733	770	450	204	26	1,100	GS 34638			
	11-28-60	72	52	.02	115	32	74	3.4	290	0	150	126	.1	.3	.1	626	771	420	182	27	1,110	GS 3537-			
	1- 9-61	72	48	0	120	30	69	2.8	284	0	173	115	0	.4	.2	698	732	424	191	26	1,080	GS 35890			

Well number	Date of collection	Depth of well (feet)	Water temperature (°F)	Results in parts per million (ppm)															pH	Specific conductance (micromhos at 25°C)	Analyzing laboratory and sample number			
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids					Hardness as CaCO ₃	Noncarbonate hardness as CaCO ₃	Percent sodium
																	Calculated (Sum of determined constituents)	Residue on evaporation at 180°C						
7W/ 4W-20K4	2-23-61		72	148	0	129	28	73	3.3	284	0	206	115	0.1	0	0.2	743	813	438	205	26	1,140	GS 36174	
	3-21-61		72	148	.02	124	27	88	4.5	293	0	163	142	0	2.5	.2	743	819	420	31	1,190	GS 36456		
	5- 2-61		72	52	0	126	31	70	2.8	286	0	186	115	.1	.7	.2	723	758	442	25	1,110	GS 36960		
	8-17-61		59	49	0	119	28	72	3.0	281	0	184	122	.1	0	.2	718	773	414	27	1,070	GS 37747		
	11-28-62		48	48	.01	126	31	78	3.7	304	0	188	104	.2	.8	.2	740	763	442	28	1,100	GS 41995		
	11- 3-64		49	49	.03	137	24	78	3.3	268	0	235	104	.4	.2	.2	763	772	442	28	1,140	GS 48005		
	12- 4-98	177	17	23	77	119	23	77	3.8	297	0	154	110	0	0	0	646	640	392	148	30	1,030	W	
	12-11-59		46	28	73	3.1	224	0	175	115	.2	175	115	.2	3.0	.20	656	640	372	29	1,030	DWR 1149		
	4- 5-60	71	35	28	72	3.7	286	0	175	125	.2	175	125	.2	0	0	706	803	427	193	27	1,140	DWR T-4618	
	9-22-60		38	32	72	6.2	289	0	188	114	0	188	114	0	8.7	.4	1,080	736	431	194	26	1,110	DWR L-420	
20K5	10-18-60		57	51	130	6.2	400	0	300	169	.1	169	169	.1	8.7	.4	1,130	736	610	282	31	1,690	GS 35098	
	11-10-60	68	51	0	127	31	76	3.4	284	0	168	117	.1	.2	.2	.2	730	814	444	211	27	1,150	GS 35375	
	3- 2-61	70	42	28	74	3.5	286	0	205	117	.1	205	117	0	0	.30	740	754	438	204	27	1,160	DWR L-1110	
	10-12-61		39	22	73	2.0	288	0	200	117	.2	200	117	.2	0	.21	733	882	435	190	27	1,100	DWR L-2086	
	11-14-61	70	47	29	74	3.7	294	0	192	115	.1	192	115	.1	.2	.2	737	767	426	205	26	1,140	GS 39535	
	6- 6-62	70	37	54	80	1.7	295	0	187	117	.1	187	117	.1	0	.19	746	746	426	184	29	1,120	DWR L-3200	
	9-21-62	70	32	27	66	3.3	293	0	163	118	.1	163	118	.1	0	.19	678	780	423	183	25	1,020	DWR 3483	
	7-22-63	70	38	27	77	2.9	351	0	179	118	.2	179	118	.2	0	.15	737	770	415	178	29	1,100	DWR L-4876	
	9-30-64	113	30	296	4	296	0	207	121	.1	121	118	.2	0	0	.20	683	750	407	197	30	1,120	DWR L-7733	
	11-16-65	102	300	300	2.7	286	0	190	136	.2	136	121	.2	.7	.1	.1	724	752	440	194	27	1,120	GS 51151	
20L1	4- 8-59	184	24	24	74	3.5	286	0	93	102	102	132	.1	0	0	0	614	707	356	176	31	1,030	T A-6384	
	4- 5-60		24	24	75	3.1	282	0	102	133	.1	102	133	.1	0	0	614	720	356	176	28	1,100	DWR T-4620	
	8- 3-60		55	31	76	3.4	311	0	121	132	.3	121	132	.3	0	.1	711	776	440	186	27	1,080	GS 34639	
	8-31-60		50	35	76	4.0	310	0	146	129	0	146	129	0	.4	0	556	698	408	167	27	1,080	GS 34639	
	9-22-60		39	27	72	3.8	289	2	151	133	0	151	133	0	1.8	.20	1,170	1,220	679	311	31	1,810	GS 35099	
	10-18-60		58	57	139	3.4	388	30	184	127	.1	184	127	.1	.2	.2	713	819	430	191	28	1,130	GS 35374	
	11-10-60	68	53	31	92	3.2	330	0	143	120	0	143	120	0	1.1	.2	782	819	430	258	30	1,180	GS 35367	
	11-23-60		31	23	92	3.4	326	0	107	165	0	107	165	0	.2	.1	701	745	394	127	34	1,170	GS 35888	
	1- 9-61		36	33	93	2.6	326	0	107	165	0	107	165	0	.2	.1	701	745	394	127	34	1,170	GS 35888	
	2-23-61	71	49	29	74	3.3	309	0	157	136	.1	157	136	.1	.2	.2	729	830	440	167	27	1,230	DWR R-3879	
3- 2-61		46	30	72	3.5	296	0	166	138	.3	166	138	.3	4.0	.28	738	774	455	213	25	1,200	GS 36459		
3-21-61		49	28	74	3.7	298	0	165	135	0	165	135	0	.8	.1	729	810	437	193	27	1,160	GS 36459		
5- 2-61		51	33	74	3.0	296	0	168	135	.1	168	135	.1	.6	.2	740	835	456	213	26	1,180	GS 36961		
8-17-61		48	29	72	3.1	288	0	182	111	0	182	111	0	0	.2	712	750	432	196	26	1,120	GS 37748		

Well number	Date of collection	Depth of well (feet)	Water temperature (°F)	Results in parts per million (ppm)															pH	Specific conductance (micromhos at 25°C)	Analyzing laboratory and sample number				
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Baron (B)	Dissolved solids					Hardness as CaCO ₃	Noncarbonate hardness as CaCO ₃	Percent sodium	
																	Calculated (sum of determined constituents)	Residue on evaporation at 180°C							
U.S. Public Health Service drinking-water standards (1962)																									
7N/34W-20M1	10-12-61			40	0.04	146	34	80	2.3	313	0	211	149	0.1	0	0.25	817	1,030	508	251	25	1,260	DWR L-2083		
	11-14-61			50		144	34	80	3.9	321	0	193	145	.1	.2	.2	841	876	500	244	26	1,270	GS 38538		
	6-6-62		71	39	.02	146	34	87	3.6	317	0	217	156	.1	2.0	.19	892	945	505	245	27	1,300	DWR L-3196		
	11-28-62		68	50		159	37	88	4.2	336	0	230	156	.5	.6	.2	892	945	548	272	26	1,370	GS 41994		
	7-22-63		71	38		158	34	92	3.4	318	0	243	163	.1	0	.24	889	1,030	534	275	27	1,370	DWR L-4879		
	5-18-64		70	37		156	97	97	3.6	335	0	251	168	.2	0	.30	875	1,020	542	268	28	1,300	DWR L-6868		
	9-30-64				.04	117	63	94	5	334	0	247	169	.1	0	.24	860	990	552	8	27	1,220	DWR L-7820		
	11-3-64			49		169	41	95	3.8	336	0	257	180	.1	.7	.2	962	990	590	314	26	1,490	GS 48004		
	7-7-65		71		.01	164	42	90	4	334	0	256	167	.2	0	.24	889	1,090	581	307	25	1,450	DWR 18552		
	10-1-65		73	50		166	37	100	4.6	328	0	255	170	.2	.5	.1	945	566	570	297	28	1,450	GS 50972		
20M2	11-16-65		50		0	167	37	98	3.8	325	0	252	165	.1	.6	.2	943	1,000	433	303	27	1,440	GS 51143		
	1948	192				124				279		152	190						396				7.3		
	1949					103				263		132	170						393				7.3		
	1951					118	31			324		150	200				810	422	132	132			7.3	A	
	1-16-52									290			193						414	136			7.3	A	
	1-24-52									276			205						408	144			7.3	A	
	1-24-52									264			191						400	118			7.5	A	
	1-31-52									282			182						394	120			7.1	A	
	1-31-52									274			186						412					A	
	2-7-52									294			186						402					A	
GS 13255 GS 17145	2-7-52									280			167						374						A
	2-14-52									258			194						393						A
	2-14-52									272			192						388						A
	2-20-52									269			183						370						A
	2-27-52									262			183						400						A
	2-27-52									268			161												A
	3-5-52												185												A
	3-5-52												182												A
	3-20-52												183												A
	3-20-52									268			183						398	130					A
9-17-54 10-11-55	9-17-54		70	50	.04	122	28	122	7.6	327	0	142	187	.1	3.1	.48	822	856	238	150	38	1,090	GS 13255		
	10-11-55												190		2.0				418			1,360	GS 17145		
													187												

Well number	Date of collection	Depth of well (feet)	Results in parts per million (ppm)															pH	Specific conductance (microhms at 25°C)	Percent sodium	Analyzing laboratory and sample number				
			Temperature (°F)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids					Hardness as CaCO ₃	Noncarbonate hardness as CaCO ₃		
																	Calculated (Sum of determined constituents)							Residue on evaporation at 180°C	
U S Public Health Service drinking-water standards (1962)			0.3								250	250	1.3	45			500	500							
	7W/34W-20M2	6-11-57																							
		4-24-58	70	43	0.03	95	41	115	7.6	298	0	128	199	0.2	4.2	0.50		782	836	405	161	38	1,300	7.0	GS 25754
		12-24-58	69	50	.03	26	72	113	6.0	296	0	102	200	.1	.7	.3		704	708	360	117	40	1,260	7.2	GS 28784
		12-11-59	69	50		90	30	130	7.0	227	0	151	200	.3	8.5	.62		780	800	347		44	1,270	7.9	DWR 11214
		3-21-60	69	50		90	30	130	7.0	227	0	151	200	1.2	8.5	.62		791	800	347		44	1,270	7.9	DWR 11214
		4-6-60	70	31	.07	107	28	120	6	302	0	114	197	0	1	.44		753	900	384	137	40	1,320	7.0	DWR T-4384
		8-31-60	70	51	.02	107	34	123	6.2	308	0	133	183	0	4.2	.4		787	870	378	125	41	1,270	7.2	GS 34576
		9-22-60	70	50	.04	107	34	123	7.2	312	0	138	186	.1	4.4	.3		788	835	405	149	36	1,270	7.2	GS 34637
		10-18-60	70	38	.07	81	66	122	8.2	232	0	141	196	.1	6.0	.49		737	782	328	138	44	1,240	7.9	DWR L-421
		11-17-60	70	52		207	96	149	6.4	427	0	392	192	0	4.9	.6		1,320	1,390	788	380	29	2,090	8.0	GS 35103
		1-9-61	70	50		105	29	120	7.2	321	0	126	177	.1	3.2	.4		780	836	380	117	40	1,260	7.4	GS 35372
		2-23-61	70	48		108	22	115	5.8	290	0	125	185	0	4.7	.3		759	809	360	122	40	1,350	7.4	GS 35889
		3-2-61	70	45		110	24	114	5.4	292	0	142	178	.2	6.0	.46		772	833	372	133	40	1,300	7.1	DWR R-3878
		5-2-61	70	50	.01	112	27	112	6.3	287	0	134	188	.3	11.1	.4		777	806	390	155	39	1,290	7.3	GS 36959
8-17-61		70	48		123	25	72	2.6	288	0	182	115	0	7.7	.2		710	748	408	172	28	1,110	7.6	GS 37742	
20M2	10-12-61	68	50		117	26	122	6.6	293	0	144	192	.3	7.6	.36		810	810	399	159	39	1,330	8.1	DWR L3031	
	11-14-61	70	40	.03	118	22	130	5.0	291	0	166	191	.1	4.3	.40		820	944	386	148	42	1,320	6.8	DWR L-2085	
	9-21-62	70	32		117	27	118	7.6	300	0	144	188	.2	6.1	.4		806	875	402	156	38	1,320	7.4	GS 38537	
	11-28-62	69	49	0	117	33	119	7.0	324	0	213	201	1.0	4.0	.37		932	990	410	170	47	1,300	7.8	DWR 3476	
	7-22-63	70	39		117	33	119	7.0	312	0	156	191	.2	6.1	.4		833	892	428	172	37	1,340	7.5	GS 41999	
	11-6-63	70	35		135	24	132	5.5	311	0	175	210	.2	0	.46		874	934	439	184	39	1,420	7.4	DWR L-4877	
	11-3-64	70	47	.01	175	51	148	8	311	0	186	216	.2	4.3	.45		914	914	420	205	41	1,340	8.0	DWR L-5696	
	7-7-65	70	47	0	115	38	130	7	259	0	230	305	.2	7.7	.6		1,150	1,170	605	320	36	1,840	7.6	GS 48008	
	10-1-65	70	47		136	33	129	6.8	310	0	191	230	.5	9	.36		949	930	443	231	39	1,440	7.8	DWR 18555	
	6-19-63	40.4	49	.01	139	32	126	6.4	312	0	188	222	.3	6.7	.3		917	972	476	222	37	1,490	8.2	GS 50977	
	2-4-64	65	24		345	172	285	6.6	513	0	930	569	1.1	5.3	.30		2,590	2,800	1,590	717	28	1,500	7.6	GS 51142	
	6-19-63	38.4	28		158	91	103	1.2	354	0	427	174	.5	2.5	.23		1,160	1,220	773	483	23	1,690	8.0	DWR R-4979	
	2-4-64	64	17		237	109	124	4.3	391	0	323	459	.4	4.0	.4		1,670	1,820	1,040	720	21	2,280	7.5	DWR R-4979	

[illegible]

Well number	Date of collection	Depth of well (feet)	Water temperature (°F)	Results in parts per million (ppm)														pH	Specific conductance (microhmhos at 25°C)	Analyzing laboratory and sample number					
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids				Hardness as CaCO ₃	Noncarbonate hardness as CaCO ₃	Percent sodium		
																	Calculated (sum of determined constituents)							Residue on evaporation at 180°C	Hardness as CaCO ₃
U.S. Public Health Service drinking-water standards (1982)																									
7W/35W-1871	6-16-58	58	40	0.3	83	104	1,175	3.0	496	24	299	224	1.3	32	0.22	1,286	1,080	634	0	37	1,840	8.4	DWR 9232		
	9-18-58		38		108	96	1,184	3.1	493	0	305	233		30	.40	1,260	1,420	664	0	38	1,990	7.3	DWR T-2674		
	4-16-59		18		127	97	1,175	4	350	50	353	260	.3	2	.12	1,240	1,420	716	0	35	2,030	8.4	DWR T-3449		
	9-15-59		21		116	79	1,185	4.3	451	0	281	239	.7	39	.20	1,190	1,360	614	0	39	1,890	8.0	DWR T-4129		
	4-5-60		22		102	61	59	3	287	0	330	37	.2	17	.20	772	845	503	268	20	1,140	8.0	DWR T-4394		
	9-22-60		23		47	92	1,060	50	714	0	93	1,500	.3	31	.98	3,220	3,170	498	0	80	5,620	7.5	DWR L-4410		
	3-2-61		30		58	77	1,050	35	640	0	106	1,520	.3	17	.78	3,190	3,040	460	0	82	5,250	8.2	DWR L-1108		
	10-10-61		24		55	81	1,000	23	506	0	100	1,490	.2	0	1.2	3,020	3,030	472	57	81	5,200	7.7	DWR L-2096		
	6-6-62		28		80	76	1,010	56	494	64	109	1,600	.1	3	1.2	3,270	3,300	513	98	79	5,600	8.4	DWR L-3021		
	9-21-62		18		68	80	1,020	30	518	9	135	1,520	.2	2	.86	3,140	3,580	497	57	80	5,100	8.3	DWR 3474		
	10-15-63		28		98	88	1,070	33	467	15	98	1,710	.1	13	1.1	3,370	3,110	605	197	78	5,200	8.4	DWR L-5613		
	5-19-64		57		70	92	989	34	417	43	80	1,560	.5	12	1.0	3,070	3,060	520	106	79	5,420	8.4	DWR R-454		
1872	9-29-64	121.7	70	78	78	1,010	40	495	1	96	1,590	.1	4	.76	3,130	2,960	495	88	80	4,600	8.3	DWR L-7819			
	7-29-63		26	506	773	5,330	168	785	0	1,620	9,590	.3	15	2.1	18,400	19,100	4,470	3,830	71	27,500	7.5	GS 45488			
	12-13-63		42	683	1,060	6,000	246	939	0	2,020	11,500	1.1	16	6.8	22,000	24,000	6,100	5,300	67	32,700	6.8	DWR 16217			
	4-8-65		87	87	58	550	27	351	0	1	995	.2	18	.6	1,910	2,080	465	168	70	3,680	7.5	DWR 18061			
2071	5-20-41	20.5	76														825			3,300		GS 26826			
	7-8-41		73														1,700			6,000		GS 26822			
	8-11-41		77															1,580			5,490		DWR T-4624		
	9-11-41		70															2,250			5,990		DWR T-254		
21D1	9-30-41	176	70														1,680			5,710		GS 19361			
	10-27-41		68														2,120			6,240		DWR 11193			
	12-11-41		72															2,000			6,240		DWR 11194		
	5-25-42																	625			5,160		UC		
21H1	12-19-57	180	6														435			3,480		DWR R-847			
	5-15-58		6														1,220			10,000					
	4-13-60		61	19	84	1,130	18	840	71	29	2,820	0	0	.30	3,210	3,840	391	0	85	5,750	8.6	DWR T-4624			
	4-25-62		14	29	56	1,440	35	4,110	312	18	1,460	0	0	.5	3,900	3,860	300	0	90	6,490	8.4	DWR T-254			
21I1	8-22-58	190	9	0.5	107	139	153	10	141	0	188	389	.1	1	.09	1,050	1,050	322	724	28	1,450	8.3	GS 19361		
	3-30-56		10		96	114	127	9.0	477		240	284	.1	.7	.26	1,060	1,130	707	28	28	2,150	8.0	DWR 11193		
	12-15-59		62		121	137	155	10	566		256	343	.1	.4	.24	1,300	1,390	864	28	28	2,250	7.3	DWR 11194		
	12-15-59		62		128	70	274		420		400	412	.4	6.0	.25	1,350	1,350	608			2,250	3.6	UC		
21I3	9-22-55	190	62		184	101	263	7.0	454	0	400	464				1,650	1,780	875	38	38	2,780	7.8	DWR R-847		
	5-14-51		73															783			2,520				
21I3	8-21-51	74	74															786			2,560				

Well number	Date of collection	Depth of well (feet)	Water temperature (°F)	Results in parts per million (ppm)															Percent sodium	Specific conductance (micromhos at 25°C)	pH	Analyzing laboratory and sample number																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (MCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids						Hardness as CaCO ₃	Noncarbonate hardness as CaCO ₃																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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U.S. Public Health Service drinking-water standards (1982)				0.3	176	90	210	9.5	196 188	0	372	250	1.3	45		500	500	618	36	2,590 2,530 2,500 2,510 2,540 2,520 2,360 2,820 2,530 2,680 2,850 2,670 2,800 2,560 3,330 2,750 2,600 2,750 2,660 2,810 2,750 2,810 2,600 2,850 2,860 2,700 2,950 2,910 2,910 2,760 3,040 2,820 2,510	7.9 6.8	GS 4290 ES 5273 GS 7244 GS 11500 GS 13226 GS 15796 DWR R-1887 DWR T-2657 N N DWR T-3450 GS 30105 GS 33675 DWR T-4396 DWR L-470 N DWR L-1122 DWR L-2095 DWR L-3022 DWR 3464 DWR 41828 DWR 15837 DWR L-6864 DWR L-7933 GS 47998 DWR 18541																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
7N/35W-21L3	4-25-52 9-10-52 4-23-53 5-19-54 9-23-54 5-20-55 9-23-57 9-18-58 3-12-59 3-17-59 4-16-59 4-13-60 4-13-60 4-29-60 7-27-60 3-2-61 10-10-61 6-6-62 9-21-62 11-7-62 6-4-63 7-22-63 5-19-64 9-30-64 11-3-64 7-7-65 5-26-41 7-8-41 8-11-41 9-11-41 9-30-41 10-11-41 10-27-41 5-25-42	181	75																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

Well number	Date of collection	Depth of well (feet)	Water temperature (°F)	Results in parts per million (ppm)														pH	Specific conductance (micromhos at 25°C)	Analyzing laboratory and sample number					
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids				Hardness as CaCO ₃	Noncarbonate hardness as CaCO ₃	Percent sodium		
																	Calculated (Sum of constituents)							Residue on evaporation at 180°C	
U.S. Public Health Service drinking-water standards (1982)																									
7N/35W-22E1 22E1	1935	173			0.3	135	65	78		451		173	160	1.3	45	0.1	833	500	500	605				UC	
	5-14-51	219											345							997			GS 4292		
	8-21-51												337							918		29	GS 7243		
	4-25-52					107	96	125	9.5	292	0	281	328				1,090			662			GS 19359		
	4-23-53												365							910			GS 21948		
	3-30-56												414							702	591		GS 1889		
	4-5-57					204	115	161	11	474	0		405		18	.15	1,450	1,680		980		32	DMR R-1889		
	9-27-57					122	123	175	10	156	0	372	505		13	.18	1,320	1,500		806		30	DMR R-9167		
	6-16-58					129	112	154	10	288	0	355	378		15	.38	1,360	1,540		786		32	DMR R-2281		
	9-18-58					125	112	172	9.4	201	0	357	420		12	.28	1,450	1,560		873	619		DMR 13067		
22M1	3-14-61					146	124	168	10	310	0	407	384		1.1	.28	1,670	1,980		1,020	604		26	DMR 12676	
	9-19-62		65			337	45	168	9.3	513		435	391							516			GS 22591		
	6-10-57	180	63			150	42	190	6.7	272	12	188	350		.5	.16	1,120	1,140		547		43	DMR R-6514		
	12-19-57					122	52	173	5.7	285	0	170	357		0	.2	1,050	1,220		520		41	DMR R-2675		
	9-18-58		65										358										GS		
	7-20-60												342										GS		
	4-11-61												345		3.5	.20	1,040	1,100		517	293	42	DMR 13066		
	6-6-62		64										345										GS		
	11-6-63		63	26		123	45	187	5.7	266	0	178	355		0	.24	1,050	1,080		493	275	45	DMR R-5561		
	5-19-64		63			128	47	164	6	266	0	153	351		0	.10	980	1,100		512	294	41	DMR R-455		
22N2	9-24-64					144	47	195	7	288	0	185	384		0	.43	1,100	1,180		552	316	43	DMR L-7818		
	7-7-65		63			127	47	164	6	268	0	156	348		1	.14	1,080	1,080		515	295	41	DMR 18527		
	10-1-65		64	37	0	127	47	170	6.1	246	6	170	362		.4	.1	1,050	980		512	300	42	GS 50976		
	7-22-58	183.6		44	0		447					106	256		0					418	206		N		
	11-16-59		65							217	0		251							325			DMR 10815		
	11-16-59		65										265							330			GS 32451		
	11-16-59		65	40		93	33	134	5.9	226	0	101	261		3.1	.06	782	810		369	184	44	DMR 10850		
	11-16-59		65			96	35	147	8.0	228	0		275							385	198	45	GS 32435		
	4-13-60			32	.02	73	27	130	6.4	208	0	63	458		1.1	.1	693	701		295	124	48	GS 33676		
	4-13-60			17		57	24	136	5	171	0	44	252		0	0	619	770		241	1	54	DMR R-4397		
22P1 23B1	11-9-61		62	44		83	27	132	4.6	195	14	82	244		4.5	.12	731	760		318	134	47	DMR 13215		
	7-10-61		73			187	95	185	5.3	551	0	399	282		.8		1,460	1,530		857	450		GS 26554		
	10-17-61	190	65	38	.9	114				265	0	180	178							435			A		

Well number	Date of collection	Depth of well (feet)	Water temperature (°F)	Results in parts per million (ppm)															Percent sodium	Specific conductance (microhmhos at 25°C)	pH	Analyzing laboratory and sample number																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CB ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids						Hardness as CaCO ₃	Noncarbonate hardness as CaCO ₃																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Well number	Date of collection	Depth of well (feet)	Water temperature (°F)	Results in parts per million (ppm)														pH	Specific conductance (micromhos at 25°C)	Analyzing laboratory and sample number					
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids				Hardness as CaCO ₃	Noncarbonate hardness as CaCO ₃	Percent sodium		
																	Calculated (Sum of determined constituents)							Residue on evaporation at 180°C	
U.S. Public Health Service drinking-water standards (1982)																									
7N/35W-2442	10-11-55	70	47	0.01	114	34	160	7.8	348	0	142	236	0.1	10	0.55	922	950	424	139	45	1,530	7.4	GS 17142		
	12-11-59	66	55		131	43	143	6.9	381	0	196	200	0	7	.33	970	1,000	503	38	38	1,560	7.7	DMR 11192		
	4-24-58	68	40	.02	104	41	155	8.6	334	0	134	255	.2	6.5	.59	910	942	430	156	43	1,520	7.4	GS 25752		
	1935	118			244	84	238		384	0	289	572			.10	1,620	1,620	954			2,580		UC		
	5-14-51	73	14	0	169	69	221	7.0	302	0	302	470	0	5.1	.32	1,420	1,530	705	458	40	2,520	7.5	GS		
27C2	9-25-53	65	44															585			1,930		GS 11502		
	12-17-53																	600		42	2,180	7.5	GS		
	5-19-54																	609			2,020		GS 15798		
	9-17-54																	728			1,980		GS 17747		
	5-20-55	65	43	.01	150	57	208	6.0	275	0	237	264	.1	2.4	.21	1,240	1,040	609	383		1,910		GS 19358		
27F1	11-1-55																	730			1,910		GS 20720		
	3-30-56																	707			1,910		GS 21947		
	10-16-56																	810			2,060		DMR R-1888		
	4-5-57																	760		30	1,960		DMR T-2430		
	9-23-57	40	40		146	108	165	3.8	427	0	364	275	.3	21	.25	1,300	1,930	650	410	37	1,870		DMR T-2673		
27F1	6-16-58	37	37		118	86	179	4.9	470	0	291	223	.3	27	.20	1,200	1,230	650		48	1,960		GS 35109		
	9-18-58				112	94	184	3.9	490	0	318	232	0	31	.64	1,320	1,420	666	121	35	1,960		DMR 16216		
	10-7-60	123			68	22	112	4.2	170	0		204						260			1,110		UC		
	12-13-63	50	50		68	30	110	7.2	183	0	70	218	.1	3.0	.11	646	670	293	211	35	910		DMR 16213		
	12-12-63	66	13		66	25	128	9.3	71	0	100	187	.1	.5	.07	501	532	269			1,160		DMR 26815		
28H1	1935																	240			1,210		GS 26832		
	3-10-58																	235		58	1,050		GS 30101		
	5-13-58	66			60	21	154	5.4	164	0		272						154		67	1,010		GS 30100		
	5-7-59				36	16	151	4.8	134	0		242						128		61	1,170		DMR 16212		
	12-12-63	64	37		53	20	158	4.9	168	0	65	252	.2	0	.15	673	668	214	76	60	1,464		DMR 16207		
30G1	12-11-63	21			15	12	66	6.2	168	0	0	71	.2	1.0	.12	276	249	87	0	84	2,620		DMR 16207		
	4-14-58	64			24	22	487	46	586	0		460						150		89	2,390		DMR 16211		
	12-12-63	66	45		10	16	492	32	517	0	1.4	518	.2	26	1.6	1,390	1,340	91	0	57	1,600		DMR 16210		
	12-11-63	64	13		32	23	114	7.2	46	0	48	300	.3	.5	.04	499	511	175	137	42	1,460		DMR 16211		
	7-25-58	214.8																470		46	1,340		DMR L-2042		
32W1	11-18-61	62	20	0	79	54	140	6.5	324	0	75	268	.1	0	.15	816	1,150	419	278	42	1,460		DMR 16211		
	6-24-58	64	33	0	47	26	90	5.0	150	0	55	175	.3	1.7	.1	508	544	225	102	46	980		GS 26833		
	9-3-58		21	1.1							45	188	.4		0		770	228	88			7.3	N		

[illegible]

[illegible]

Well number	Date of collection	Depth of well (feet)	Water temperature (°F)	Results in parts per million (ppm)													Percent sodium	Specific conductance (micromhos at 25°C)	pH	Analyzing laboratory and sample number																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
				Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Barium (Ba)					Dissolved solids																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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Well number	Date of collection	Depth of well (feet)	Results in parts per million (ppm)																pH	Specific conductance (micromhos at 25°C)	Analyzing laboratory and sample number				
			Water temperature (°F)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids					Hardness as CaCO ₃	Noncarbonate hardness as CaCO ₃	Percent sodium	
																	Calculated (sum of determined constituents)	Residue on evaporation at 180°C							
8N/34W-17K1	7-7-60		47	71	27	1,070	42	1,480	0	33	1,040	0.5	0	18	3,080	3,010	288	0	87	5,490	7.0	DNR L-4452			
88	9-22-60	66		63	33	1,170	52	1,500	0	31	1,030	.4	4.7	21	3,300	3,040	288	0	88	5,510	7.0	DNR L-4233			
	3-10-61	65						1,640	0		1,060						295	0		5,700	6.9	DNR R-3884			
	11-9-61							1,700	0		1,100						284	0		5,680	7.2	DNR L-3986			
	5-15-62							1,630	0		1,080						285	0		5,520	7.3	DNR R-4447			
8N/35W-324	9-28-62	67	42	81	30	1,150	50	1,540	0	14	1,160	.1	0	12	3,300	3,970	328	0	87	5,450		DNR R-3634			
9N/35W-7ES1	4-25-58		14	85	40	273		511	0	175	263	.5	0	0	1,100		374	0	61	45,200	7.1	CE			
	6-26-57	100	32	657	1,980	10,000		2,200	0	10,000	13,700				37,500	38,600	9,800				7.4	SE			
	5-12-66		11	643	359	1,420	12	340	0	2,440	2,400	1.2	.2	6.5	7,460	8,040	8,080	2,800	50	10,300	8.2	GS 53037			
	5-11-66		24	88	54	336	5.4	280	28	248	438	.9	10	1.1	1,370	1,420	440	164	62	2,350	8.5	GS 53036			
	8E1	5-11-66		175	76	350	2.7	332	0	392	575	1.0	0	.4	1,760	2,000	750	478	50	3,130	8.1	GS 53035			
9N/36W-1NS1	5-10-66		13	8.0	113	180	.2	416	39	21	170	.1	22	.2	692	716	484	77	31	1,230	8.7	GS 53033			
	5-10-66		94	20	140	256	1.2	448	55	98	438	.3	14	.4	1,250	1,440	626	167	47	2,240	8.0	GS 53034			
	18HS2	96.6	21	98	191	855	25	848	0	380	1,330	.4	.4	2.4	3,370	3,500	1,030	335	64	5,650	7.0	GS 37247			
	18L1		23	124	214	900	2.6	924	0	223	1,600	.7	3.6	92	3,570	3,710	1,190	432	62	6,060	7.2	GS 42004			
	20L1	68	38	240	192	760	6.0	500	0	830	1,220	.2	3.2	1.7	3,540	3,790	1,390	980	54	5,490	6.9	GS 42003			
9N/36W-1NS1	5-12-66		19	288	365	940	7.9	270	20	1,200	1,950	.8	15	.7	4,940	5,660	2,220	1,970	48	7,670	8.3	GS 53038			
	11-28-62	70	23	208	256	480	7.0	418	0	900	885	.8	2.3	.4	2,970	3,250	1,570	1,230	40	4,430	7.9	GS 42001			
	6-14-60	99	5	580	320	61,620		207	0	1,190	3,330	.8	0		7,150	6,950			56		7.3	T B-4058			

Table 6.--Logs of wells

The depth of wells in this table is the depth reported by the driller and is not necessarily the developed depth of the well. Where depth given on log differs from that given in table 1 or table 3, it indicates that the well has been measured since it was drilled. The depths given in tables 1 and 3 are the measured depths on the date indicated.

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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6N/35W-2D1. Drilled by Floyd V. Wells. 8-inch casing to 475 ft; perforated 258-470 ft. Altitude about 290 ft.

Soil, sandy silt, black -----	30	30	Sand, fine, with some clay, olive gray-----	220	420
Clay, sandy, light gray -----	27	57	Clay, sandy, olive gray -----	23	443
Clay, sandy, with some gravel, light gray -----	43	100	Sand, fine, with some clay, olive gray -----	4	447
Clay, sandy, yellow --	43	143	Clay, sandy -----	28	475
Clay, sandy, olive gray -----	57	200			

6N/35W-5F1. Drilled by Floyd V. Wells. 8-inch casing to 77 ft; perforated 5-57 ft. Altitude about 230 ft.

Soil, with sand and pebbles, brown -----	30	30	Sand and clay, with some gravel, olive gray -----	18	55
Sand and gravel, olive gray -----	7	37	Sand, very fine ---	22	77

6N/35W-8Z1. Drilled by Top Row Oil Co. 10-inch casing to 355 ft and 6-inch to 1,063 ft, open hole to 1,302 ft. Altitude about 780 ft.

Shale, cherty -----	120	120	Chert, brown -----	54	685
Shale, hard, brown ---	199	319	Shale, brown -----	5	690
Lime, brown -----	10	329	Chert, black, with streaks of		
Water sand, gray -----	2	331	shale -----	105	795
Shale, sticky, brown -	208	539	Chert, hard, black -----	57	852
Shale, brittle, brown -----	2	541	Shale, hard, gray -	10	862
Shale, sticky, brown -	72	613	Flint, hard, black -----	20	882
"Sand shell" -----	1	614			
Shale, brown -----	17	631			

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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6N/35W-8Z1.---continued

Shale, brown -----	11	893	Shale, hard to		
Chert, hard, black ---	132	1,025	flaky, brown ----	49	1,214
Shale, sticky, brown -	14	1,039	Shale, brown -----	6	1,220
"Sand shell" -----	1	1,040	Bentonite -----	61	1,281
Chert, with streaks			Chert, hard,		
of shale -----	8	1,048	black -----	5	1,286
Shale, broken, brown -	64	1,112	Shale, flaky,		
Shale, with streaks			brown -----	16	1,302
of flint -----	53	1,165			

6N/35W-15J1. Drilled by Floyd V. Wells. 8-inch casing to 78 ft; perforated 20-75 ft. Altitude about 585 ft.

Adobe, with broken			Clay, with some		
rock -----	18	18	shale, sticky,		
Clay, sandy, with			olive gray -----	18	76
some gravel, olive			Boulders, with clay		
gray -----	15	33	and shale -----	2	78
Clay, with some gravel,					
sticky, olive gray -	25	58			

6N/35W-16P1. Drilled by Floyd V. Wells. 8-inch casing to 76 ft; perforated 20-68 ft. Altitude about 400 ft.

Adobe, with broken			Clay, sandy, with		
gravel, brown -----	16	16	gravel, olive		
Clay, sandy, with			gray -----	17	70
gravel, olive			Clay, sticky, with		
gray -----	32	48	gravel, olive		
Sand and sticky clay,			gray -----	6	76
with gravel, gray --	5	53			

Thickness Depth		Thickness Depth	
(feet)	(feet)	(feet)	(feet)

6N/35W-21D1. Drilled by Floyd V. Wells. 8-inch casing to 59 ft; perforated 14-17 ft, 30-55 ft. Altitude about 380 ft.

Adobe, with broken rock, brown -----	14	14	Clay, sandy, with some gravel -----	15	45
Clay, sand, gravel, boulders, brown ----	3	17	Clay and large gravel, brown ----	5	50
Clay, sandy, brown ---	13	30	Clay, sticky, with gravel, gray -----	9	59

6N/35W-31M1. Drilled by Aubrey Lyon. 12-inch casing to 194 ft; perforated 75-95, 120-140, 160-180 ft. Altitude about 74 ft.

Clay, sandy, and rock -----	29	29	Shale, soft, dark brown -----	10	111
Clay and rock -----	8	37	Shale, hard, dark brown -----	17	128
Shale, yellow to dark brown -----	53	90	Shale, soft, dark brown -----	9	137
Shale, hard, dark brown -----	11	101	Shale, hard to very hard, brown -----	57	194

6N/36W-121. Drilled by U.S. Army Corps of Engineers. Open hole to 34 ft. Altitude is 313.4 ft.

Sand, brown -----	9	9
Sand, with shale fragments, light tan -----	12	21
Sand, with some shale fragments, dark tan -----	13	34

6N/36W-122. Drilled by U.S. Army Corps of Engineers. Open hole to 30 ft. Altitude is 304.3 ft.

Sand, with some silt, brown -----	30	30
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6N/36W-123. Drilled by U.S. Army Corps of Engineers. Open hole to 40 ft. Altitude is 323.7 ft.

Sand, poorly cemented, light brown -----	40	40
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Thickness Depth		Thickness Depth	
(feet)	(feet)	(feet)	(feet)

6N/36W-12Z1. Drilled by Fred Cannon Co. Open hole to 182 ft. Altitude is 496.3 ft.

Sand, fine, brown ----	90	90	Shale, siliceous, moderately fractured, gray to black -----	59	182
Sand, fine, some small gravel -----	33	123			

6N/36W-12Z2. Drilled by U.S. Army Corps of Engineers. Open hole to 120 ft. Altitude is 413.4 ft.

Sand, silty, brown ---	70	70	Sand, silty, with shale fragments brown -----	12	115
Sand and clay, dark brown -----	5	75	Sand, silty, well cemented, brown -	5	120
Sand, silty, light brown -----	28	103			

6N/36W-13Z1. Drilled by Fred Cannon Co. Open hole to 172 ft. Altitude is 459.1 ft.

Sand, fine grained, silty, dense, gray -----	69	69
Gravel and sand, slightly cemented, brown -----	11	80
Sand, silty, dense, gray -----	10	90
Shale, massive, hard, gray -----	82	172

6N/36W-13Z2. Drilled by U.S. Army Corps of Engineers. Open hole to 50 ft. Altitude is 313.0 ft.

Sand, silty, brown ---	30	30	Shale, weathered, fractured, brown -----	17	50
Sand and clay, brown -	3	33			

6N/36W-13Z3. Drilled by U.S. Army Corps of Engineers. Open hole to 53 ft. Altitude is 352.6 ft.

Sand and clay, brown -	5	5	Sand and clay, with shale fragments, brown -----	15	30
Clay, sandy, light brown -----	5	10	Shale, weathered --	23	53
Sand, silty, light brown -----	5	15			

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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6N/36W-13Z4. Drilled by U.S. Army Corps of Engineers. Open hole to 40 ft. Altitude is 334.7 ft.

Sand and clay, brown -	17	17	Shale,		
Sand and clay, with			weathered -----	12	40
gravel, brown -----	11	28			

6N/36W-13Z5. Drilled by Fred Cannon Co. Open hole to 175 ft. Altitude is 474.4 ft.

Sand, fine, silty,			Shale, siliceous,		
dense gray -----	54	54	soft to hard,		
Gravel, sandy, slightly			brown,		
cemented, brown ----	10	64	weathered -----	111	175

6N/36W-13Z6. Drilled by U.S. Army Corps of Engineers. Open hole to 40 ft. Altitude is 314.3 ft.

Sand, silty, light brown -----	30	30		
Sand and clay, light brown -----	3	33		
Shale, weathered, light brown -----	7	40		

6N/36W-13Z7. Drilled by U.S. Army Corps of Engineers. Open hole to 35 ft. Altitude is 353.5 ft.

Sand, silty, black -----	4	4		
Clay, sandy, with shale fragments, brown -----	17	21		
Sand, silty, brown -----	10	31		
Sand and clay, brown -----	4	35		

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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6N/36W-14Z1. Drilled by U.S. Army Corps of Engineers. Open hole to 52 ft. Altitude is 162.5 ft.

Sand, silty, brown -----	25	25	Sand, silty, brown- Sand, with silt and clay -----	5	45
Sand and clay, brown -----	15	40	Shale -----	2	52

6N/36W-23R1. Drilled by U.S. Forestry Department. 8-inch casing to 135 ft. Altitude about 346 ft.

Clay -----	70	70	Shale, hard, dark brown -----	31	131
Flint, hard -----	5	75	Sand, coarse, water bearing ---	4	135
Shale, dark brown ----	23	98			
Limestone -----	2	100			

6N/36W-23R2. Drilled by H. Stoneburger and Sons. Well drilled to 300 ft, backfilled to 174 ft. 12-inch casing to 174 ft; perforated 130-160 ft. Altitude is 346.8 ft.

Clay, silty, with cherty pebbles -----	42	42			
Clay, silty; with coarse sand, pebbles, and boulders, brown -----	38	80			
Shale, light brown -----	8	88			
Shale, hard, black -----	39	127			
Limestone, hard, light brown -----	16	143			
Shale, loose brecciated, very broken, no sand or clay ---	3	146			
Limestone, hard, gray -----	42	188			
Shale, very soft, light gray -----	54	242			
Shale, hard, siliceous, light gray -----	58	300			

6N/36W-23Z1. Drilled by U.S. Army Corps of Engineers. Open hole to 30 ft. Altitude is 400.5 ft.

Sand, silty, dark brown -----	10	10			
Sand and clay, brown -----	20	30			

Thickness Depth		Thickness Depth	
(feet)	(feet)	(feet)	(feet)

6N/36W-24Z2. Drilled by U.S. Army Corps of Engineers. Open hole to 80 ft. Altitude is 458.3 ft.

Sand, with silt and clay, brown -----	10	10	Sand, silty, brown ---	45	60
Sand, with silt and gravel, brown -----	5	15	Sand and clay, brown -----	5	65
			Shale, weathered ----	15	80

6N/36W-24Z3. Drilled by U.S. Army Corps of Engineers. Open hole to 42 ft. Altitude is 369.0 ft.

Sand, silty, brown ----	2	2	"Volcanics," multi-colored, weathered -----	30	42
Sand and clay, brown --	10	12			

6N/36W-24Z4. Drilled by U.S. Army Corps of Engineers. Open hole to 50 ft. Altitude is 401.7 ft.

Sand; with some silt, clay, and gravel, brown -----	50	50
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6N/36W-25Z2. Drilled by U.S. Army Corps of Engineers. Open hole to 49 ft. Altitude is 488.1 ft.

Sand, with some silt, clay, and shale fragments -----	49	49
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6N/36W-25Z3. Drilled by Fred Cannon Co. Open hole to 120 ft. Altitude is 629.6 ft.

Shale, siliceous, hard with weathered soft layers, gray, fractured -----	120	120
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6N/36W-25Z4. Drilled by Fred Cannon Co. Open hole to 130 ft. Altitude is 659.8 ft.

Sand, fine to medium, silty, brown -----	8	8
Shale, siliceous, hard with weathered soft layers, gray, fractured -----	122	130

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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6N/36W-26E1. Drilled by Lyons Bros. 12-inch casing to 275 ft, 10-inch to 476 ft; perforated 275-476 ft. Altitude about 150 ft.

Sand, fine -----	32	32	Shale, hard, black		
Sand and gravel, packed, with some clay -----	2	34	to gray -----	58	381
Sandstone, hard, gray --	67	101	Shale, with black clay -----	34	415
Boulders, very hard ----	2	103	Shale, hard, brown --	20	435
Shale, hard, brown -----	20	123	Shale, with hard and soft layers,		
Silt, soft -----	4	127	brown -----	30	465
Shale, hard, brown -----	194	321	Shale, with streaks		
Clay, dark -----	2	323	of clay, gray -----	11	476

6N/36W-26Z1. Drilled by U.S. Army Corps of Engineers. Open hole to 50 ft. Altitude about 280 ft.

Sand, silty, with some clay, brown -----	31	31	Sand, silty, with shale fragments, brown -----	19	50
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6N/36W-26Z2. Drilled by U.S. Army Corps of Engineers. Open hole to 30 ft. Altitude is 468.9 ft.

Sand, with silt and gravel, brown -----	21	21	Shale, weathered -----	9	30
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7N/34W-7Z1. Open hole to 60 ft. Altitude about 130 ft.

Gravel and sand, with some silt and shale fragments -----	14	14
Sand, silty -----	46	60

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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7N/34W-18L3. Altitude is 60.3 ft.

Adobe, black -----	5	5	Clay, with		
Adobe, and gravel -----	16	21	some gravel -----	6	44
Sand, fine -----	6	27	Sand, fine, gray;		
Gravel, clean -----	6	33	and gravel -----	2	46
Clay -----	5	38	Shale, broken, with		
			some sand -----	26	72

7N/34W-19J1. Drilled by Roscoe Moss Co.. Well drilled to 186 ft backfilled to 182 ft. 18-inch casing to 186 ft; perforated 130-166 ft. Altitude about 61 ft.

Sand, silty -----		18	18
Clay, with sand, gray -----		27	45
Clay, with sand and gravel, gray -----		13	58
Clay, gray -----		27	85
Clay, with sand and some gravel, gray -----		15	100
Clay and gravel, water-bearing -----		65	165
Sand and clay, cemented -----		7	172
Sand, fine, with clay, gray -----		14	186

7N/34W-19J3. Drilled by Floyd V. Wells. 14-inch casing to 161 ft; perforated 80-150 ft. Altitude about 60 ft.

Sand, brown -----	10	10	Clay, blue, with		
Clay, sandy, brown -----	15	25	sand -----	12	92
Sand and fine gravel,			Gravel, fine, blue;		
with some clay -----	25	50	with sand -----	38	130
Gravel and sand, blue --	9	59	Clay, sandy, blue ---	5	135
Clay, blue, with gravel			Sand and gravel, with		
and some sand -----	16	75	little clay, blue -	23	158
Sand, coarse, blue -----	5	80	Shale, blue -----	3	161

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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7N/34W-19L1. Drilled by Roscoe Moss Co. 18-inch casing to 184 ft, cemented back to 180 ft; perforated 42-56, 95-100, and 138-164 ft. Altitude about 50 ft.

Sand, silty -----	22	22	Clay, gray -----	8	108
Clay and gravel, gray -	20	42	Sand, fine, with		
Sand and gravel -----	14	56	clay and some		
Clay, gray, and fine			gravel -----	40	148
sand -----	26	82	Sand with gravel and		
Sand, fine, and			boulders -----	16	164
gravel; muddy -----	13	95	Sand, fine,		
Sand and gravel -----	5	100	muddy -----	20	184

7N/34W-19L2. Drilled by Floyd V. Wells. Drilled to 160 ft, back-filled to 156 ft. 14-inch casing to 156 ft; perforated 95-150 ft. Altitude about 60 ft.

Sand and clay, brown --	15	15	Sand, with streaks		
Clay, blue -----	7	22	of clay, blue -----	20	90
Gravel and sand, with			Sand, blue -----	25	115
streaks of blue			Sand, with some		
clay -----	23	45	gravel -----	5	120
Clay, blue -----	5	50	Gravel and sand -----	10	130
Sand, blue -----	14	64	Gravel -----	26	156
Clay, sandy, blue -----	6	70	Shale, blue -----	4	160

7N/34W-19Q1. Drilled by Floyd V. Wells. Open hole to 180 ft. Altitude about 60 ft.

Sand, silty, brown -----	7	7
Clay, with sand, brown -----	13	20
Sand, with streaks of sandy clay -----	5	25
Sand, with gravel, gray -----	5	30
Gravel, coarse, with sand -----	50	80
Gravel, with sand and streaks of clay -----	15	95
Sand, coarse, some gravel -----	30	125
Sand, fine, well cemented, brown -----	51	176
Shale, blue -----	4	180

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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7N/34W-1921. Drilled by Floyd V. Wells. Open hole to 200 ft.
Altitude about 60 ft.

Sand, brown -----	15	15	Clay, blue		
Clay, with sand,			and brown -----	37	137
brown -----	20	35	Gravel and clay,		
Clay, blue -----	10	45	blue -----	8	145
Sand, blue -----	5	50	Clay and gravel,		
Sand, with gravel,			blue -----	5	150
blue -----	10	60	Clay, white -----	10	160
Clay, with sand,			Sand, fine, with		
blue to brown ---	40	100	clay -----	40	200

7N/34W-20K1. Drilled by Jack Alexander. 12-inch casing to 153 ft;
perforated 115-146 ft. Altitude about 72 ft.

Soil -----	4	4	Clay, blue -----	32	109
Clay -----	31	35	Gravel, with some		
Gravel -----	5	40	sand -----	44	153
Clay, with some					
gravel -----	37	77			

7N/34W-20K4. Drilled by Roscoe Moss Co. 18-inch casing to 186 ft;
perforated 90-174 ft. Altitude about 75 ft.

Soil -----	6	6	Clay, blue to yellow,		
Clay, brown to			with sand and		
yellow -----	28	34	gravel to 3", some		
Sand and gravel ---	11	45	boulders -----	47	158
Clay, with sand			Shells and small		
and gravel -----	11	56	gravel -----	8	166
Clay, with sand,			Shells,		
yellow -----	20	76	cemented -----	20	186
Clay, blue -----	23	99			
Sand and small					
gravel, yellow --	12	111			

Thickness Depth
(feet) (feet)

Thickness Depth
(feet) (feet)

7N/34W-20K5. Drilled by Floyd V. Wells. 14-inch casing to 177 ft; perforated 97-167 ft. Altitude about 75 ft.

Sand, silty, brown -----	5	5	Clay, blue -----	30	105
Clay, with sand, brown -----	34	39	Gravel, with some sand and clay -----	70	175
Clay, with some sand and gravel, gray -----	36	75	Shale, gray to brown, fractured -----	2	177

7N/34W-20L1. Drilled by Floyd V. Wells. 14-inch casing to 184 ft; perforated 96-172 ft. Altitude about 80 ft.

Sand, silty, brown -----	15	15	Sand, coarse, with some gravel -----	20	80
Sand, with clay and gravel -----	20	35	Sand and gravel, with streaks of blue clay -----	10	90
Clay, with streaks of sand and gravel -----	10	45	Sand and gravel ---	93	183
Clay, blue -----	15	60	Shale, gray -----	1	184

7N/34W-20M2. Drilled by Roscoe Moss Co. 18-inch casing to 192 ft; perforated 77-93, 101-177 ft. Altitude about 70 ft.

Sand, packed -----	4	4	Sand, gravel, and blue clay -----	5	93
Sand and clay, hard, dry -----	9	13	Clay, and sand; yellow -----	8	101
Sand, gravel, and clay; dry -----	18	31	Sand, gravel, some clay and boulders -----	66	167
Clay, yellow -----	28	59	Sand, with small gravel and shale -----	25	192
Clay, and sand, yellow -----	12	71			
Clay, yellow, with some gravel -----	17	88			

Thickness Depth		Thickness Depth	
(feet)	(feet)	(feet)	(feet)

7N/34W-20N1. Drilled by Jack Alexander. 6-inch casing to 107 ft; perforated 93-107 ft. Altitude 67.50 ft.

Soil, sandy -----	29	29	Clay, sandy,		
Clay, sandy, blue -	10	39	blue -----	20	85
Sand, blue -----	20	59	Sand, blue -----	10	95
Clay, yellow -----	6	65	Gravel -----	12	107

7N/34W-20N2. Drilled by U.S. Geol. Survey. 1½-inch casing with sand point to 42 ft. Altitude about 50 ft.

Loam, sandy, gray -----		12	12
Sand, with some small gravel, gray -----		30	42

7N/34W-20N3. Drilled by U.S. Geol. Survey. Well drilled to 62 ft backfilled to 39 ft. 1½-inch casing with sand point to 39 ft. Altitude about 62 ft.

Loam, sandy, brown-	7	7	Clay, with very		
Sand and clay,			little sand,		
gray -----	34	41	gray -----	21	62

7N/34W-20R1. Drilled by Floyd V. Wells. 14-inch casing to 177 ft; perforated 95-165 ft. Altitude about 75 ft.

Clay, sandy -----		4	4
Sand -----		11	15
Clay, sandy, with streaks of sand, brown -----		25	40
Clay, sandy, with streaks of gravel, blue -----		55	95
Sand, with streaks of clay, gray -----		45	140
Sand, coarse, with gravel and clay, gray -----		27	167
Sand and gravel -----		3	170
Shale, light gray -----		7	177

Thickness Depth		Thickness Depth	
(feet)	(feet)	(feet)	(feet)

7N/34W-21E1. Drilled by Alexander Brothers. Well drilled to 150 ft backfilled to 145 ft. 8-inch casing to 150 ft; perforated 73-93 ft. Altitude about 82 ft.

Adobe -----	15	15	Clay, solid, blue --	8	75
Clay, solid, yellow -----	10	25	Gravel -----	5	80
Gravel, dry -----	4	29	Sand and gravel, blue -----	15	95
Clay, solid, yellow -----	5	34	Sand, with some black clay -----	55	150
Gravel, with some clay -----	33	67			

7N/34W-21J1. Drilled by Jack Alexander. Well drilled to 85 ft backfilled to 80 ft. 12-inch casing to 85 ft. Altitude is 75.83 ft.

Soil -----	12	12	Boulders -----	2	66
Sand, blue -----	12	24	Sandstone, hard ----	3	69
Clay, yellow -----	3	27	Gravel -----	3	72
Gravel, large, blue --	30	57	Sand and gravel ----	6	78
Clay, solid, blue ----	7	64	Sand, white -----	7	85

7N/34W-21N1. Drilled by Jack Alexander. 12-inch casing to 80 ft; perforated 38-65, 68-80 ft. Altitude is 81.32 ft.

Soil -----	27	27	Gravel, large, water-bearing ----	10	65
Gravel, with some sand -----	11	38	Sand, white -----	5	70
Gravel, large, water-bearing ----	7	45	Sand, coarse; gravel and boulders -----	10	80
Gravel and clay -----	10	55			

7N/34W-21N2. Altitude about 82 ft.

Soil, with some black adobe -----	20	20	Sand, with some gravel, dry -----	17	62
Clay, blue -----	5	25	Clay, blue -----	33	95
Sand -----	7	32	Gravel and clay, dry -----	4	99
Gravel, water-bearing -----	3	35	Clay, blue -----	21	120
Clay, blue -----	10	45	Clay, sandy -----	5	125
			Sand, dry -----	15	140

Thickness Depth		Thickness Depth	
(feet)	(feet)	(feet)	(feet)

7N/34W-22E1. Drilled by Alexander Brothers. 8-inch casing to 97 ft; perforated 87-97 ft. Altitude about 100 ft.

Sand, conglomerate, and dry gravel --	40	40	Clay and gravel ---	8	48
			Gravel, "good" ----	49	97

7N/34W-29A4. Drilled by Floyd V. Wells. Open hole to 190 ft. Altitude about 70 ft.

Sand -----	4	4	Sand, with streaks of gravel -----	75	165
Clay, sandy, brown to gray -----	41	45	Sand, gray, with gravel -----	20	185
Gravel, sandy, gray -----	45	90	Clay, sandy, brown-	5	190

7N/35W-1Z1. Open hole to 60 ft., Altitude about 430 ft.

Gravel and sand ---	5	5	Sand, silty -----	46	60
Shale, decomposed -	9	14			

7N/35W-1Z2. Open hole to 36 ft. Altitude about 440 ft.

Sand, silty -----	7	7	Sand, silty -----	24	36
Shale, broken -----	5	12			

7N/35W-4Z1. Drilled by J. N. Pitcher Drilling Co. Open hole to 101 ft. Altitude is 335.8 ft.

Sand, fine to coarse, clay, brown -----	20	20			
Shale, siliceous, brittle, gray, highly fractured -----	81	101			

Thickness Depth		Thickness Depth	
(feet)	(feet)	(feet)	(feet)

7N/35W-8Z1. Drilled by U.S. Army Corps of Engineers. Open hole to 201 ft. Altitude about 169 ft.

Sand, fine, brown --	31	31	Mudstone and shale ----	9	110
Shale, siliceous, hard, weathered --	28	59	Shale, siliceous to cherty, hard, black -----	47	157
Mudstone, hard, black -----	7	66	Mudstone, hard, black, slickensides -----	7	164
Shale, hard, gray-black -----	3	69	Mudstone and shale ----	3	167
Mudstone, hard, black -----	15	84	Shale, soft to hard, gray -----	34	201
Shale, cherty, hard, black to gray ----	17	101			

7N/35W-16F1. Drilled by Jack Alexander. Altitude about 13 ft.

Soil -----	5	5	Sandstone, hard -----	10	40
Clay, soft, yellow to blue -----	20	25	Sand, blue -----	2	42
Sand and "muck" ----	5	30	Shale, brown -----	18	60

7N/35W-16N1. Drilled by Jack Alexander. Altitude about 17 ft.

Soil -----	6	6	Gravel and clay -----	14	104
Sand, gravel, and clay -----	36	42	Gravel, water-bearing -----	6	110
Clay, solid, blue --	48	90	Shale, brown -----	6	116

7N/35W-17B1. Drilled by Jack Alexander. 12-inch casing to 45 ft. Altitude is 25.68 ft.

Soil, sandy -----	20	20	Rock, solid, white ----	25	45
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Thickness Depth		Thickness Depth	
(feet)	(feet)	(feet)	(feet)

7N/35W-17K1. Drilled by Floyd V. Wells. 8-inch casing to 190 ft; perforated 175-185 ft. Altitude about 10 ft.

Clay, with some			Gravel -----	8	185
silt -----	134	134	Shale -----	5	190
Gravel and sand ----	43	177			

7N/35W-17M1. Drilled by Floyd V. Wells. 8-inch casing to 169 ft; perforated 115-120 ft. Altitude is 9.74 ft.

Soil -----	5	5	Gravel and clay,		
Clay, blue, and			with some		
silt -----	31	36	sand -----	30	122
Gravel and some			Clay, brown,		
silt -----	29	65	with fine		
Clay, blue -----	10	75	gravel -----	23	145
Clay, blue, with some			Shale, brown -----	24	169
gravel -----	17	92			

7N/35W-17Z1. Open hole to 36 ft. Altitude about 10 ft.

Soil, sandy -----	4	4	Clay, blue, with some		
Clay, soft, blue ---	14	18	sand and gravel ----	18	36

7N/35W-17Z2. Open hole to 36 ft. Altitude about 10 ft.

Sand, loose -----	9	9	Sand and gravel -----	20	36
Clay, soft -----	7	16			

Thickness Depth		Thickness Depth	
(feet)	(feet)	(feet)	(feet)

7N/35W-17Z3. Open hole to 38 ft. Altitude about 10 ft.

Sand, soft -----	10	10	Silt and clay,		
Clay, medium			with some sand		
hard -----	10	20	and gravel -----	18	38

7N/35W-17Z4. Open hole to 36 ft. Altitude about 10 ft.

Soil -----	4	4	Clay, sandy, with		
Clay, solid, blue ---	21	25	some gravel -----	11	36

7N/35W-18H1. Drilled by Floyd V. Wells. 9-inch casing to 112 ft; perforated 83-88 ft. Altitude is 5.87 ft.

Clay and gravel -----	2	2	Clay, sandy, green --	10	66
Silt, sandy -----	16	18	Clay, yellow -----	8	74
Sand, blue, with			Gravel, with some		
streaks of silt ---	29	47	silt -----	16	90
Sand and gravel -----	9	56	Shale -----	22	112

7N/35W-18H2. Drilled by Floyd V. Wells. 8-inch casing to 192 ft; perforated 182-187 ft. Altitude is 7.23 ft.

Soil -----	3	3	Clay and gravel, with		
Clay and silt, blue -	19	22	streaks of sand ---	35	140
Sand, with some fine			Sand, with small		
gravel, blue -----	38	60	amounts of gravel -	15	155
Clay, blue -----	27	87	Clay, blue -----	18	173
Sand, blue -----	18	105	Gravel -----	16	189
			Shale -----	3	192

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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7N/35W-18J1. Drilled by Jack Alexander. 10-inch casing to 120 ft.
Altitude is 6.20 ft.

Soil -----	4	4	Sand, blue -----	4	54
Sand -----	16	20	Clay, blue -----	61	115
Clay, blue -----	30	50	Gravel -----	5	120

7N/35W-18J2. Drilled by Floyd V. Wells. 9-inch casing to 135 ft;
perforated 100-105 ft. Altitude is 7.38 ft.

Clay and gravel -----	2	2	Clay, blue with some streaks of sand and gravel -----	22	108
Silt, sandy -----	14	16	Silt, sandy, with some gravel -----	14	122
Sand and gravel, with silt -----	29	45	"Brown Rock" -----	13	135
Clay, sandy, with some gravel -----	16	61			
Sand, with some blue clay and gravel ---	25	86			

7N/35W-20H1. Drilled by A. L. Lowe. 12-inch casing to 133 ft.
Altitude is 17.80 ft.

Clay, yellow to blue -----	58	58	Gravel -----	13	125
Sand -----	2	60	Gravel, coarse -----	5	130
Clay -----	52	112	Sand and clay -----	3	133

7N/35W-20J1. Drilled by Jack Alexander. 6-inch casing to 125 ft.
Altitude is 19.07 ft.

Sand and clay -----	120	120	Gravel, "good" -----	5	125
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Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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7N/35W-20J4. Drilled by Jack Alexander. 16-inch casing to 160 ft; perforated 116-140 ft. Altitude is 18.3 ft.

Soil -----	8	8	Clay, sandy -----	32	110
Sand, white -----	12	20	Sand -----	6	116
Clay, yellow to blue -----	54	74	Gravel -----	18	134
Sand, water-bearing -	4	78	Shale, brown -----	26	160

7N/35W-20J5. Drilled by A. L. Lowe. Altitude about 20 ft.

Soil -----	18	18	Clay, blue -----	64	99
Clay, yellow -----	12	30	Sand -----	1	100
Sand -----	5	35			

7N/35W-21D1. Drilled by Jack Alexander. 16-inch casing to 180 ft; perforated 130-178 ft. Altitude is 17.91 ft.

Soil -----	4	4	Sandstone -----	44	113
Clay, blue -----	46	50	Gravel and sand -----	17	130
Sandstone -----	9	59	Gravel, coarse -----	50	180
Clay, blue -----	10	69			

7N/35W-21G1. Drilled by A. L. Lowe. 12-inch casing to 182 ft. Altitude is 23.56 ft.

No record -----	108	108	Gravel and sand -----	15	135
Gravel and sand -----	5	113	Sand -----	15	150
Clay -----	7	120	Gravel, coarse -----	32	182

Thickness Depth		Thickness Depth	
(feet)	(feet)	(feet)	(feet)

7N/35W-21H1. Drilled by Jack Alexander. 16-inch casing to 176 ft; perforated 137-153, 166-174 ft. Altitude is 23.99 ft.

Sand and soil -----	32	32	Gravel and clay -----	6	125
Clay, soft, blue ----	4	36	Gravel, fine, and		
Sand, fine, and			sand -----	12	137
gravel -----	22	58	Gravel, coarse -----	10	147
Gravel and clay,			Clay, blue -----	2	149
water-bearing -----	4	62	Gravel, coarse -----	9	158
Clay, and sandstone -	15	77	Sand, blue -----	4	162
Gravel, coarse -----	5	82	Gravel, coarse -----	12	174
Clay, sandy, hard,			Clay, blue -----	2	176
blue -----	37	119			

7N/35W-21J1. Drilled by A. L. Lowe. Altitude is 24.0 ft.

No record -----	47	47	Gravel -----	8	126
Clay -----	71	118	Clay -----	65	191

7N/35W-21L1. 12-inch casing to 190 ft; perforated 145-186 ft. Altitude about 20 ft.

Clay, yellow -----	34	34	Sand, gravel, and		
Sand and clay -----	51	85	clay, water-		
Clay and sand -----	37	122	bearing -----	33	155
			Gravel, water-bearing	35	190

7N/35W-21L4. Drilled by Alexander Brothers. 16-inch casing to 181 ft; perforated 149-179 ft. Altitude about 20 ft.

Soil, sandy -----	4	4	Clay, sandy, blue ---	24	137
Clay, sandy, soft,			Gravel, sand, and		
yellow to blue ----	93	97	blue clay -----	12	149
Clay, sandy, with			Gravel, "good" -----	8	157
some sand and			Clay, solid, blue ---	2	159
gravel -----	16	113	Gravel, "good" -----	22	181

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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7N/35W-22A1. Drilled by Jack Alexander. 16-inch casing; perforated 26-47, 90-115 ft. Altitude is 29.43 ft.

Sand, fine, and soil - 32	32	Boulders and	
Clay, soft, blue,		clay, yellow -----	5 105
with some sand and		Shale, solid,	
gravel -----	68 100	blue -----	40 145

7N/35W-22F1. Drilled by Jack Alexander. 16-inch casing to 173 ft; perforated 132-170 ft. Altitude is 25.79 ft.

Soil and clay -----	38 38	Gravel, sand, and	
Sand, fine, blue,		clay -----	13 113
with clay -----	35 73	Sand, fine, blue ----	12 125
Clay, blue -----	4 77	Gravel, coarse -----	46 171
Sand, fine, with clay		Clay, blue -----	2 173
clay -----	23 100		

7N/35W-22F3. Drilled by Alexander Brothers. 16-inch casing to 190 ft; perforated 152-185 ft. Altitude about 20 ft.

Soil -----	8 8
Clay, sandy, brown to blue -----	41 49
Clay, very sandy, with some gravel, blue -----	41 90
Sand, with some gravel, blue -----	14 104
Sand, with some small gravel -----	20 124
Sand, coarse, with some gravel -----	19 143
Sand, blue clay, some gravel -----	9 152
Gravel, coarse, with some sand -----	38 190

Thickness Depth (feet) (feet)		Thickness Depth (feet) (feet)	
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7N/35W-22L1. Drilled by Alexander Brothers. 12-inch casing; perforated 172-189 ft. Altitude about 30 ft.

Soil -----	28	28	Clay, with some		
Sand -----	13	41	gravel, blue -----	22	158
Clay, sandy -----	20	61	Clay, soft, sandy ---	12	170
Clay, soft, yellow --	25	86	Sand and fine		
Clay, with fine			gravel -----	6	176
gravel -----	5	91	Gravel -----	9	185
Clay, blue -----	45	136	"Chalk rock" -----	34	219

7N/35W-22M1. Drilled by A. L. Lowe. 12-inch casing. Altitude is 28.84 ft.

Sand -----	102	102	Shale -----	30	180
Gravel -----	48	150			

7N/35W-22M2. Drilled by Worts. 2-inch casing with sand point to 22 ft. Altitude is 28.20 ft.

Sand, medium-----	5	5
Clay, sticky, black to brown,-----	6	11
Clay, with some gravel -----	1	12
Sand and gravel, with some clay -----	1	13
Clay, sticky, brown -----	4	17
Sand, fine, and silt, with some clay -----	5	22

7N/35W-22N2. Drilled by Floyd V. Wells. 8-inch casing to 194 ft; perforated 96-181 ft. Altitude about 24 ft.

Sand, with clay and silt -----	26	26
Clay, sandy, gray -----	6	32
Sand, interbedded with clay, gray -----	13	45
Sand, silty, with some clay, gray -----	15	60
Clay, with silt and sand, gray -----	36	96
Sand, with clay and pebbles -----	21	117
Gravel, with sand and clay, gray -----	8	125
Sand, with clay, silt, and some pebbles -----	54	179
Clay, with sand and some pebbles -----	15	194

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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7N/35W-23A1. Open hole to 200 ft. Altitude about 43 ft.

Silt -----	9	9	Clay, hard,		
Sand, gray -----	18	27	cemented,		
Sand, gray, with			blue -----	10	140
some gravel -----	9	36	Shale and hard		
Clay, yellow to			blue clay -----	60	200
blue -----	94	130			

7N/35W-23B1. 18-inch casing to 190 ft; perforated 57-178 ft.
Altitude about 38 ft.

Soil and sandy clay -	31	31	Gravel and sand -----	103	170
Clay, yellow to			Shale, hard,		
blue -----	36	67	black -----	20	190

7N/35W-23D1. Drilled by Roscoe Moss Co. 18-inch casing to
206 ft; perforated 96-194 ft. Altitude about 35 ft.

Clay, sandy -----	32	32	Clay, sandy, blue ---	34	106
Clay, blue -----	8	40	Sand, gravel,		
Sand and gravel,			and boulders,		
with some clay ----	5	45	water-bearing -----	78	184
Clay, blue -----	9	54	Clay, sandy, very		
Sand, blue -----	5	59	hard, with some		
Clay, blue -----	7	66	shale -----	10	194
Sand, fine, blue ----	6	72	Shale, very hard ----	12	206

7N/35W-24B1. Drilled by Roscoe Moss Co. 18-inch casing to
160 ft. Open hole to 180 ft. Not perforated. Altitude about 48 ft.

Silt, sandy -----	6	6	Clay, sandy, blue ---	23	97
Clay, gray, with			Clay, gray, with		
some soil -----	59	65	cemented clay		
Sand, clay, and			streaks -----	55	152
gravel, gray -----	9	74	Clay, hard, gray ----	28	180

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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7N/35W-24B2. Drilled by Roscoe Moss Co. 18-inch casing to 202 ft. Altitude about 48 ft.

No record -----	9	9	Clay, compact -----	4	137
Sand, coarse, gray --	18	27	Gravel, fine -----	43	180
Clay, gray -----	45	72	Clay, compact,		
Sand, coarse, with			white -----	22	202
some small pebbles-	61	133			

7N/35W-24H1. Drilled by Jack Alexander. 16-inch casing to 182 ft; perforated 129-175 ft. Altitude is 48.01 ft.

Soil, sandy -----	75	75	Clay, sandy -----	28	120
Gravel, fine, with			Gravel, fine,		
some sand -----	6	81	sandy -----	3	123
Gravel -----	8	89	Gravel, "good" -----	56	179
Sand, fine -----	3	92	Shale, brown -----	3	182

7N/35W-24H2. Drilled by Roscoe Moss Co. 18-inch casing to 202 ft; perforated 62-190 ft. Altitude about 48 ft.

Silt and sand -----	9	9	Clay, blue -----	4	137
Sand and fine gravel-	18	27	Sand, gravel,		
Clay, with some			and boulders -----	43	180
gravel, blue to			Clay, brown,		
yellow -----	45	72	with some		
Sand and gravel,			shale -----	22	202
with some clay ----	61	133			

7N/35W-26P1. Drilled by Alexander Brothers. 16-inch casing to 176 ft; perforated 76-86 ft. Altitude about 40 ft.

Adobe, black -----	5	5	Clay, solid to soft,		
Clay, soft, yellow --	12	17	blue -----	10	49
Clay, sandy, yellow -	14	31	Clay, sandy, with		
Clay and gravel,			some gravel -----	27	76
yellow -----	8	39	Gravel, yellow -----	10	86

Thickness Depth		Thickness Depth	
(feet)	(feet)	(feet)	(feet)

7N/35W-26P1.---Continued.

Sand, hard, yellow to blue -----	85	171	Sand, and sea shells, white -----	5	176
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7N/35W-27F1. Drilled by A. L. Lowe. 12-inch casing. Altitude is 27.63 ft.

No record -----	20	20	Gravel -----	6	96
Clay -----	46	66	Clay -----	2	98
Gravel -----	21	87	Gravel -----	25	123
Clay -----	3	90			

7N/35W-27H1. Drilled by A. L. Lowe. 16-inch casing; perforated 80-124 ft. Altitude about 27 ft.

Soil -----	18	18	Sand and gravel -----	5	75
Sand -----	6	24	Gravel, "pure" -----	50	125
Clay -----	46	70	Sand -----	17	142

7N/35W-27J1. Drilled by A. L. Lowe. Altitude is 28.44 ft.

Soil -----	72	72	Gravel -----	17	99
Clay -----	10	82	Clay -----	38	137

7N/35W-27K1. Drilled by A. L. Lowe. 16-inch casing. Altitude about 30 ft.

Dirt -----	15	15	Sand, blue -----	18	180
Clay -----	97	112	"Sea shells and rocks" -----	2	182
Gravel, -----	3	115			
Sand, hard -----	47	162			

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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7N/35W-27P1. Drilled by Floyd V. Wells. Well drilled to 677 ft, backfilled to 582 ft. 7-inch casing to 582 ft; perforated 562-577 ft. Altitude about 260 ft.

Silt -----	8	8	Silt, sandy, blue ---	104	404
Sand, fine, with minor amounts of clay -----	168	176	Sea shells and sand, with some clay ----	7	411
Sand, coarse -----	10	186	Clay, sandy -----	61	472
Sand, coarse, and gravel, with some clay -----	81	267	Sand, coarse, and gravel with sea shells -----	115	587
Sand, fine, and some clay -----	33	300	Shale -----	90	677

7N/35W-28K2. Drilled by Floyd V. Wells. Well drilled to 315 ft, backfilled to 235 ft. 8-inch casing to 284 ft; perforated 22-23, 46-48, and 60-63 ft. Altitude about 89 ft.

Sand, medium, with pebbles and clay -----	21	21
Sand, coarse, with pebbles and silt -----	2	23
Sand, fine to coarse, some pebbles -----	40	63
Sand, very fine, with clay and silt -----	252	315

7N/35W-28R1. Drilled by Floyd V. Wells. Well drilled to 551 ft, backfilled to 510 ft. 7-inch casing to 510 ft; perforated 470-510 ft. Altitude about 120 ft.

Soil -----	5	5	Clay, yellow, with some gravel -----	88	195
Sand, fine, with some gravel -----	26	31	Gravel and clay -----	36	231
Adobe and gravel ----	20	51	Shale, blue, with sand and gravel ---	228	459
Gravel and sand -----	22	73	Sand, coarse -----	14	473
"Chalk rock"-----	15	88	Gravel and coarse sand -----	18	491
Gravel with some clay -----	19	107	Shale, brown -----	60	551

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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7N/35W-30G1. Drilled by Floyd V. Wells. 8-inch casing to 277 ft; perforated 115-275 ft. Altitude about 130 ft.

Sand -----	4	4	Clay, green,		
Sandstone -----	60	64	with sand and		
Sand and gravel -----	34	98	gravel -----	10	240
Clay, green, with			Clay, green,		
sand and gravel ---	52	150	with hard		
Clay, green, with			streaks -----	37	277
hard streaks -----	80	230			

7N/35W-31B1. Drilled by Floyd V. Wells. Open hole to 472 ft. Altitude about 85 ft.

Soil -----	7	7	Shale, gray		
Clay, sandy, and			with fine		
gravel -----	5	12	sand -----	360	403
Gravel and coarse			Shale, brown,		
sand -----	12	24	with some		
Clay, sandy, with			sand -----	69	472
some gravel-----	19	43			

7N/35W-31J1. Drilled by Floyd V. Wells. 6-inch casing to 625 ft; perforated 571-591 ft. Altitude about 160 ft.

Soil -----	8	8	Shale, blue, with		
Clay, sandy, and			sea shells and		
gravel -----	4	12	some gravel -----	52	106
Sand, coarse, and			Shale, blue, and		
gravel -----	9	21	fine sand -----	331	437
"Chalk rock" and			Shale, sandy, fine --	127	564
gravel -----	13	34	Gravel and coarse		
Clay, yellow, with			sand -----	20	584
some gravel -----	20	54	Shale, brown -----	41	625

Thickness Depth		Thickness Depth	
(feet)	(feet)	(feet)	(feet)

7N/35W-31M1. Drilled by Floyd V. Wells. Open hole to 428 ft.
Altitude about 200 ft.

Soil -----	4	4	Sand, fine -----	43	107
Clay, sandy, yellow -	7	11	Sand, coarse, and		
Sand -----	12	23	gravel -----	72	179
Clay, sandy, yellow -	36	59	Gravel and blue		
Gravel and coarse			clay -----	18	197
sand -----	5	64	Shale -----	231	428

7N/35W-31Z2. Drilled by U.S. Army Corps of Engineers. Open hole
to 40 ft. Altitude is 171.9 ft.

Sand, silty, brown --	36	36	Sand, with shale		
Clay, gray -----	2	38	fragments -----	2	40

7N/35W-31Z3. Drilled by U.S. Army Corps of Engineers. Open hole
to 40 ft. Altitude is 218.0 ft.

Sand, silty, brown -----	40	40
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7N/35W-31Z4. Drilled by U.S. Army Corps of Engineers. Open hole
to 60 ft. Altitude is 256.1 ft.

Sand, silty, brown -----	60	60
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7N/35W-31Z5. Drilled by U.S. Army Corps of Engineers. Open hole
to 70 ft. Altitude is 260.5 ft.

Sand, tan -----	70	70
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7N/35W-31Z6. Drilled by U.S. Army Corps of Engineers. Open hole to
70 ft. Altitude is 249.0 ft.

Sand, silty, brown -----	70	70
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Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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7N/35W-32N1. Drilled by Floyd V. Wells. 8-inch casing to 300 ft; perforated 10-210 ft. Altitude about 175 ft.

Sand, brown -----	29	29	Sand, brown, with small amounts of clay -----	42	190
Clay, sandy, gray, with some gravel --	72	101	Clay, sandy, with some gravel, gray -----	110	300
Sand, with some gravel, gray -----	11	112			
Clay, sandy, with some gravel -----	36	148			

7N/35W-33E1. Drilled by Floyd V. Wells. Open hole to 1,004 ft. Altitude about 370 ft.

Soil -----	6	6	Clay, sandy, with some sea shells ---	44	330
Clay, sandy, yellow -	52	58	Shale -----	21	351
Sand, fine, with some clay -----	98	156	Shale, sandy, with some sea shells ---	539	890
Sand, coarse, and gravel -----	130	286	Shale, brown -----	114	1,004

7N/35W-33J1. Drilled by Floyd V. Wells. 8-inch casing to 380 ft; perforated 113-155, 173-244 ft. Altitude about 177 ft.

Sand, medium, with small amounts of clay and silt -----	98	98
Sand, medium to fine, yellow -----	15	113
Sand, fine to very coarse, yellow-orange -----	35	148
Sand, fine to coarse, with some pebbles -----	80	228
Sand, silty, very fine, with sparse pebbles -----	152	380

7N/35W-33J2. Drilled by Evans Brothers. Well drilled to 530 ft, backfilled to 465 ft. 14-inch casing to 465 ft; perforated 170-210, 375-465 ft. Altitude about 177 ft.

Sand, with some pebbles and clay streaks, buff -----	130	130
Sand, with sparse shale fragments and some gravel, gray ---	260	390
Sand, with some gravel -----	70	460
Sand, fine, with some clay -----	70	530

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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7N/35W-33J3. Drilled by Midway Drilling and Pump Co. Well drilled to 660 ft, backfilled to 518 ft. 14-inch casing to 518 ft; perforated 96-160, 428-460 ft. Altitude about 220 ft.

Sand, fine, brown ---	40	40	Shale, blue, and		
Sand and clay,			sea shells -----	70	240
brown -----	10	50	Shale, blue -----	210	450
Sand, fine, rocks			Gravel, blue -----	40	490
and clay -----	30	80	Sand, fine, and		
Sand and rocks -----	40	120	gravel -----	20	510
Sand -----	50	170	Shale, blue -----	150	660

7N/35W-33M2. Drilled by Floyd V. Wells. Open hole to 926 ft. Altitude about 450 ft.

Soil -----	6	6	Clay, yellow,		
Clay, yellow, and			and gravel -----	17	424
sand -----	15	21	Clay, sandy, blue ---	338	762
Gravel and clay -----	22	43	Shale, hard, blue,		
Sand, fine -----	198	241	with black oil		
Boulders, coarse,			shale -----	38	800
sand, and gravel --	80	321	Shale, hard, broken -	65	865
Gravel and white			Shale and coarse		
clay -----	26	347	black sand -----	12	877
Clay, yellow -----	60	407	Shale -----	49	926

7N/35W-33R1. Drilled by Floyd V. Wells. 8-inch casing to 432 ft backfilled to 425 ft; perforated 402-420 ft. Altitude about 216 ft.

Sand, fine to coarse, with some clay, brown -----	95	95
Clay, sandy, gray -----	64	159
Sand, fine, with clay, yellow-brown -----	11	170
Clay, and very fine sand, brown to gray -----	39	209
Sand, fine to medium, with clay -----	34	243
Clay, sandy -----	157	400
Gravel, sandy -----	19	419
Sand, fine to coarse, with some clay -----	11	430
Clay, sandy, gray -----	2	432

	Thickness	Depth		Thickness	Depth
	(feet)	(feet)		(feet)	(feet)

7N/35W-34K1. Drilled by Floyd V. Wells. Open hole to 1,000 ft.
Altitude about 500 ft.

Soil -----	11	11	Clay, sandy -----	20	470
Clay, yellow -----	32	43	Silt, sandy -----	221	69
Sand, fine -----	373	416	Shale -----	309	1,000
Gravel, coarse, and rock -----	34	450			

7N/35W-35C1. Drilled by A. L. Lowe. 12-inch casing.
Altitude is 36.12 ft.

Soil -----	15	15	Clay -----	30	75
Sand -----	20	35	Gravel -----	19	94
Gravel and sand -----	10	45	Sand -----	11	105

7N/35W-35C2. Drilled by Jack Alexander. 16-inch casing; perforated
72-112 ft. Altitude is 36.3 ft.

Soil, black -----	3	3	Clay, blue -----	4	72
Clay, yellow to blue -----	26	29	Gravel and clay -----	2	74
Clay, sandy, blue ---	12	41	Gravel -----	34	108
Sand, yellow -----	23	64	Sand and gravel -----	6	114
Sand, hard -----	4	68	Sand, white -----	8	122

7N/35W-35C4. Drilled by Worts. 2-inch casing to 9 ft; perforated
7-9 ft. Altitude is 36.68 ft.

Soil -----	2	2	Clay, gritty, light buff -----	4	0
Clay, black, sticky -----	3	5			

7N/35W-35C5. Drilled by Alexander Brothers. 16-inch casing to
157 ft; perforated 75-85 ft. Altitude about 40 ft.

Clay -----	8	8	Clay, with some gravel -----	4	89
Clay, sandy, yellow to blue -----	67	75	Clay, sandy, white -----	68	157
Gravel -----	10	85			

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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7N/35W-35D2. Drilled by Floyd V. Wells. Well drilled to 425 ft, backfilled to 190 ft. 7-inch casing to 190 ft; perforated 150-190 ft. Altitude about 70 ft.

Soil -----	7	7	Gravel and coarse		
Sand -----	12	19	sand, with some		
Clay, sandy -----	28	47	sea shells -----	74	176
Sand -----	55	102	Clay, with fine sand -	25	201
			Shale -----	224	425

7N/36W-36Z2. Drilled by U.S. Army Corps of Engineers. Open hole to 60 ft. Altitude about 200 ft.

Sand, brown -----	20	20	Sand, brown -----	38	60
Sand, silty, black --	2	22			

8N/34W-4N1. Drilled by C. A. Shaw. 6-inch casing to 180 ft; perforated 168-176 ft. Altitude about 460 ft.

Soil -----	3	3	Clay, yellow -----	2	157
"Hardpan" -----	6	9	Sand, coarse -----	20	177
Clay -----	141	150	Clay, yellow -----	3	180
Sand, medium, brown -	5	155			

8N/34W-5Z1. Open hole to 70 ft. Altitude about 430 ft.

Sand, fine, silty ---	29	29	Siltstone, soft, gray -----	10	55
Clay, brown -----	4	33	Siltstone, hard -----	11	66
Sand, poorly graded, with some silt, brown -----	12	45	Sandstone, coarse, consolidated -----	4	70

8N/34W-7Z1. Open hole to 50 ft. Altitude about 570 ft.

Sand, silty, with some clay -----	3	3	Sand, silty -----	47	50
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Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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8N/34W-16G1. Drilled by Evans Brothers. 14-inch casing to 687 ft; perforated 159-469, 529-667 ft. Altitude about 291 ft.

Sand, silty -----	50	50	Clay, sandy, with trace of fine gravel -----	46	526
Sand, with small amount of gravel and clay -----	90	140	Sand, with gravel and layers of clay ----	104	630
Gravel, with trace of fine sand -----	15	155	Gravel, fine, sandy -	15	645
Sand, with streaks of clay -----	53	208	Sand, with gravel ---	25	670
Sand, with streaks of gravel and some clay -----	272	480	Gravel, fine, sandy -	10	680
			Sand, hard, with gravel and some clay -----	7	687

8N/34W-16G2. Drilled by Floyd V. Wells. 14-inch casing to 700 ft; perforated 52-680 ft. Altitude about 320 ft.

Sand and gravel -----	22	22	Clay -----	44	437
Clay, sandy, and gravel -----	25	47	Gravel, and sand, with sea shells --	64	551
Sand and gravel -----	47	94	Clay, sandy -----	47	598
Clay and sand -----	21	115	Clay, sandy, coarse -	17	615
Sand, fine, minor amounts of clay ---	292	407	Clay, with minor amounts of sand -----	85	700
Gravel and coarse sand -----	36	443			

8N/34W-16J1. Drilled by Floyd V. Wells. Well drilled to 597 ft, backfilled to 578 ft. 14-inch casing to 578 ft; perforated 256-558 ft. Altitude about 320 ft.

Sand, silty -----	30	30	Sand -----	30	200
Sand with gravel and some clay streaks -	40	70	Clay, with sand -----	65	265
Gravel, and sand -----	40	110	Sand -----	162	427
Clay, with sand and gravel -----	20	130	Sand, with some clay -----	103	530
Sand, with clay and gravel -----	40	170	Sand, gravel, and shells -----	48	578
			Limestone -----	19	597

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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8N/34W-18C1. Drilled by Floyd V. Wells. 8-inch casing to 75 ft. Altitude about 200 ft.

Clay, organic, dark-gray -----	10	10	Clay, green, with gravel and some sand -----	25	70
Clay, sandy, light-brown -----	5	15	Shale, green -----	5	75
Clay, organic, gray -	30	45			

8N/35W-3Z4. Drilled by U.S. Army Corps of Engineers. 8-inch casing to 182 ft; perforated 84-182 ft. Altitude about 402 ft.

Sand, silty -----	5	6			
Sand and gravel, clean, poorly graded -----	6	12			
Sand, silty -----	44	56			
Shale, closely fractured, with some interbedded mudstone --	126	182			

8N/35W-3Z5. Drilled by U.S. Army Corps of Engineers. Open hole to 220 ft. Altitude is 402.6 ft.

Sand, silty, with layers of clay and clay and sand -----	51	51			
Shale, diatomaceous, hard, tan-to-gray, fractured -----	114	165			
Mudstone, diatomaceous, hard, gray -----	2	167			
Shale, diatomaceous, hard, gray -----	53	220			

8N/35W-3Z6. Drilled by U.S. Army Corps of Engineers. Open hole to 50 ft. Altitude about 439 ft.

Sand, silty -----	4	4	Mudstone, diatomaceous, soft, gray -----	35	50
Sand, with some clay-	11	15			

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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8N/35W-3Z7. Drilled by U.S. Army Corps of Engineers. Open hole to 180 ft. Altitude about 495 ft.

Sand and gravel, clean, poorly graded -----	6	6	Limestone, hard, white -----	1	59
Sand, with some clay-	5	11	Shale, dia- tomaceous, hard,		
Shale, diatomaceous, hard, gray -----	47	58	gray -----	121	180

8N/35W-5Z1. Open hole to 38 ft. Altitude about 180 ft.

Sand and gravel, clean, poorly graded -----	32	32
Mudstone and siltstone, hard, green to gray -----	6	38

8N/35W-5Z2. Open hole to 58 ft. Altitude about 200 ft.

Sand and gravel, clean, poorly graded -----	18	18	Sand, silty -----	27	45
			Silt and clay -----	3	48
			Shale -----	10	58

8N/35W-7R1. Drilled by Floyd V. Wells. 8-inch casing to 100 ft; perforated 65-70, 85-95 ft. Altitude about 40 ft.

Clay, organic, dark gray -----	65	65	Clay, organic, gray -	13	80
Clay, organic, broken shale, water- bearing -----	2	67	Clay, sandy, dark gray -----	15	95
			Shale, brown -----	5	100

8N/35W-7Z1. Open hole to 60 ft. Altitude about 120 ft.

Sand and gravel, clean, poorly graded -----	39	39	Sand, with some clay -----	5	44
			Shale -----	16	60

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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8N/35W-7Z2. Open hole to 76 ft. Altitude about 80 ft.

Sand and gravel, clean, poorly graded -----	44	44	Gravel and sand, clean, well graded -----	17	61
			Shale -----	15	76

8N/35W-7Z3. Drilled by U.S. Army Corps of Engineers. Open hole to 201 ft. Altitude is 164.9 ft.

Sand, silty, fine to medium -----	10	10
Shale, with interbedded layers of mudstone; hard, brown to black, fractured -----	191	201

8N/35W-8Z1. Open hole to 58 ft. Altitude about 120 ft.

Sand and gravel, clean, poorly graded -----	42	42	Sand, silty -----	2	44
			Shale -----	14	58

8N/35W-8Z2. Open hole to 48 ft. Altitude about 80 ft.

Sand and gravel, clean, poorly graded -----	38	38
Shale -----	10	48

8N/35W-8Z3. Open hole to 42 ft. Altitude about 80 ft.

Sand, silty -----	2	2	Shale -----	40	42
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Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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8N/35W-9G1. Drilled by Floyd V. Wells. Open hole to 80 ft.
Altitude about 250 ft.

Soil -----	6	6	Shale, with gravel, olive green,		
Sand, fine, with some gravel -----	22	28	weathered -----	27	55
			Shale, olive green, fractured -----	25	80

8N/35W-9H1. Drilled by Floyd V. Wells. Open hole to 60 ft.
Altitude about 240 ft.

Soil -----	6	6	Shale, green -----	25	60
Clay, sandy, brown --	29	35			

8N/35W-10J1. Drilled by U.S. Geol. Survey. 1½-inch casing with
sand point to 42 ft. Altitude about 118 ft.

Clay, sandy, dark -----				42	42
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8N/35W-14Z1. Drilled by J.N. Pitcher Drilling Co. Well
drilled to 101 ft, backfilled to 96 ft; perforated plastic casing
to 96 ft. Altitude is 487.2 ft.

Sand, fine, silty, with some clay ----	28	28	Shale, soft, weathered,		
Clay, silty, brown --	10	38	brown -----	63	101

8N/35W-15E1. Drilled by Roscoe Moss Co. 12-inch casing;
perforated 23-34 ft. Altitude about 50 ft.

Adobe -----	8	8	Shale, blue to brown -----	608	642
Clay -----	15	23			
Gravel -----	11	34			

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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8N/35W-15E2. Drilled by Floyd V. Wells. 8-inch casing to 42 ft; not perforated. Altitude about 50 ft.

Sand -----	5	5	Clay, organic, green-gray -----	6	33
Clay, organic, dark- gray -----	13	18	Shale, brown -----	9	42
Gravel, with some sand -----	9	27			

8N/35W-15E3. Drilled by U.S. Geol. Survey. 1½-inch casing with sand point to 73 ft. Altitude about 50 ft.

Clay -----	62	62	Sand, medium -----	11	73
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8N/35W-16E1. Drilled by U.S. Geol. Survey. 1½-inch casing with sand point to 50 ft. Altitude about 50 ft.

Clay, sandy -----	49	49	Shale -----	1	50
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8N/35W-17B1. Drilled by Floyd V. Wells. 8-inch casing to 70 ft; perforated 56-66 ft. Altitude about 40 ft.

Clay, organic, dark-gray -----	57	57			
Sand, with some gravel -----	9	66			
Shale, brown -----	4	70			

8N/35W-28Z1. Drilled by J. N. Pitcher Drilling Co. Well drilled to 101 ft, backfilled to 94 ft; perforated plastic casing to 94 ft. Altitude is 363.9 ft.

Sand, fine, with clay and some silt, brown -----	31	31			
Shale, silty, soft to hard, fractured and weathered -----	70	101			

	Thickness (feet)	Depth (feet)
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8N/35W-31Z1. Drilled by Eugene Craft Drilling Co. Open hole to 200 ft. Altitude is 280.2 ft.

Sand, silty, fine to medium -----	6	6
Shale and siltstone, soft to hard, brown, fractured -----	194	200

8N/36W-13Z1. Open hole to 40 ft. Altitude is 143.0 ft.

Sand, fine, poorly graded, brown -----	24	24
Shale, hard, brown -----	16	40

8N/36W-23Z1. Open hole to 64 ft. Altitude is 126.0 ft.

Sand, fine, poorly graded, tan -----	64	64
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8N/36W-23Z2. Open hole to 73 ft. Altitude about 90 ft.

Sand, fine, clean, light brown -----	52	52
Shale, soft to extremely hard, fractured, brown -----	21	73

8N/36W-23Z3. Open hole to 63 ft. Altitude about 104 ft.

Sand, fine, poorly graded, tan -----	60	60
Sand, fine, and clay, with sparse shale gravel; gray -----	3	63

8N/36W-24Z1. Open hole to 58 ft. Altitude is 198.9 ft.

Sand, fine, poorly graded, light brown -----	37	37
Sand, fine, and clay, with some shale gravel -----	3	40
Shale, hard, brown, fractured with thin layers of chert ---	18	58

	Thickness (feet)	Depth (feet)
8N/36W-24Z2. Open hole to 43 ft. Altitude is 218.6 ft.		
Sand, fine, poorly graded, tan -----	42	42
Shale, light-tan, fractured, with some clay and chert		
gravel -----	1	43
8N/36W-24Z3. Open hole to 74 ft. Altitude is 184.4 ft.		
Sand, fine, poorly graded, clean -----	73	73
Sand, fine, with chert gravel and large amount of clay ----	1	74
8N/36W-24Z4. Open hole to 36 ft. Altitude about 200 ft.		
Sand and gravel, poorly graded, clean -----	35	35
Sand, silty -----	1	36
8N/36W-25Z1. Open hole to 32 ft. Altitude about 60 ft.		
Sand and gravel, poorly graded, clean -----	21	21
Sand, silty -----	9	30
Shale -----	2	32
9N/35W-17Z1. Drilled by U.S. Army Corps of Engineers. Open hole to 60 ft. Altitude about 562 ft.		
Clay, sandy, with some silt -----	10	10
Sandstone and shale, soft, weathered -----	29	39
Sandstone, fine, hard, green, fractured -----	10	49
Sandstone and shale, soft to hard -----	11	60
9N/35W-17Z2. Drilled by J. N. Pitcher Drilling Co. Open hole to 111 ft. Altitude is 250.5 ft.		
Clay, silty, red-brown -----	8	8
Sand, fine, with clay and silt, brown -----	7	15
Gravel, fine to coarse, and sand; with clay, red brown ----	8	23
Shale, soft to hard, weathered, brown -----	47	70
Sandstone, fine, interbedded with siltstone; slightly fractured, hard, brown -----	41	111

	Thickness (feet)	Depth (feet)
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9N/35W-17Z3. Drilled by J. N. Pitcher Drilling Co. Open hole to 110 ft. Altitude is 537.2 ft.

Clay, sandy, dark brown -----	3	3
Shale, siliceous, hard, brown, fractured -----	19	22
Basalt, with white porcelainized zones; hard, brown, fractured -----	59	81
Marble, hard, black, occasional silicate and clay filled fractured -----	29	110

9N/35W-18L1. Drilled by Floyd V. Wells. 8-inch casing to 99 ft; perforated 79-94 ft. Altitude about 80 ft.

Clay, sandy, silty -----	15	15
Sand, with silt and gravel -----	11	26
Shale, moderate soft to very hard, brown, moderately fractured -----	73	99

9N/35W-18Z1. Drilled by U.S. Army Corps of Engineers. Open hole to 100 ft. Altitude is 78.8 ft.

Silt, clay, and gravel, loose to dense -----	25	25
Shale, diatomaceous to cherty, fractured, soft to very hard -----	61	86
Mudstone, fractured, hard -----	14	100

9N/35W-18Z2. Drilled by J. N. Pitcher Drilling Co. Open hole to 110 ft. Altitude is 174.6 ft.

Gravel, sand, clay, and silt, loose to very dense -----	10	10
Siltstone, siliceous, with chert streaks; hard highly fractured zones -----	20	30
Shale, with siltstone layers; siliceous, hard -----	25	55
Chert, with limestone layers -----	32	87
Shale, calcareous, hard, moderately fractured -----	23	110

	Thickness (feet)	Depth (feet)
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9N/35W-18Z3. Drilled by J. N. Pitcher Drilling Co. 5-inch casing to 110 ft. Altitude is 74.8 ft.

Soil -----	1	1
Clay, silty, "stiff," brown -----	15	16
Sand, fine, "very dense," brown -----	10	26
Sand, fine to coarse, with some gravel and clay -----	9	35
Clay, with silt and sand, "very stiff to hard" -----	3	38
Shale, silty, sandy, highly weathered and fractured, soft to hard -----	20	58
Basalt, hard, fractured, with highly fractured streaks ----	52	110

9N/35W-19Z1. Drilled by J. N. Pitcher Drilling Co. Open hole to 130 ft. Altitude is 175.2 ft.

Soil -----	3	3
Clay, sandy, dense, brown, occasional pebbles -----	21	24
Clay, very dense, brown, numerous shale fragments -----	15	39
Shale, soft, fractured and weathered -----	6	45
Shale, brittle, hard, brown-gray -----	85	130

9N/35W-20J1. Drilled by Fred Pralley Co. 6-inch casing to 68 ft; perforated 5-30 ft. Altitude about 100 ft.

Silt and clay -----	2	2
Sand and gravel, with silt and clay ----	28	30
Mudstone -----	36	66
Sandstone -----	2	68

9N/35W-20Z1. Drilled by U.S. Army Corps of Engineers. Open hole to 100 ft. Altitude about 290 ft.

Sand, silty, brown -----	23	23
Shale, soft to medium hard, brown, weathered -----	7	30
Mudstone, hard, brown, moderately weathered, fractured ----	70	100

	Thickness (feet)	Depth (feet)
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9N/35W-20Z2. Drilled by U.S. Army Corps of Engineers. Open hole to 100 ft. Altitude about 297 ft.

Sand, silty, brown -----	24	24
Mudstone, medium hard to hard, gray, weathered and fractured -----	76	100

9N/35W-20Z3. Open hole to 74 ft. Altitude about 190 ft.

Sand, fine, silty, with streaks of sandy clay, consolidated -----	26	26
Shale, with some clay, well-consolidated -----	2	28
Shale, sandy, hard, gray, fractured -----	46	74

9N/35W-28Z1. Open hole to 65 ft. Altitude about 245 ft.

Sand, silty, with some gravel ----	36	36
Silt and clay, stiff -----	29	65

9N/35W-32Z1. Open hole to 80 ft. Altitude about 180 ft.

Sand, and gravel, clean, poorly graded -----	42	42
Mudstone and siltstone, with some clay, soft -----	38	80

9N/35W-34Z1. Open hole to 181 ft. Altitude about 326 ft.

Sand, fine to medium, poorly graded, brown -----	3	3
Clay, sandy -----	6	9
Sand, very fine, poorly graded; with some clay -----	2	11
Sand, fine to medium, poorly graded, clean -----	67	78
Clay, bluish-gray -----	87	165
Sand, very fine, poorly graded -----	6	171
Sand and clay, very fine, poorly graded -----	5	176
Shale, very thin bedded, soft to medium hard -----	5	181

Thickness Depth		Thickness Depth	
(feet.)	(feet.)	(feet.)	(feet.)

9N/35W-34Z2. Open hole to 85 ft. Altitude about 528 ft.

Overburden -----	63	63	Bedrock -----	22	85
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9N/35W-34Z3. Open hole to 57 ft. Altitude about 496 ft.

Overburden -----	52	52	Bedrock -----	5	57
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9N/35W-35Z1. Open hole to 83 ft. Altitude about 559 ft.

Overburden -----	82	82	Bedrock -----	1	83
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9N/35W-35Z3. Open hole to 45 ft. Altitude about 559 ft.

Overburden -----	42	42	Bedrock -----	3	45
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9N/36W-1Z1. Open hole to 101 ft. Altitude about 150 ft.

Sand, with clay, silt, and gravel -----	71	71			
Sandstone, fine grained, hard, blue-green -----	3	74			
Mudstone, hard, blue-gray, fractured, slickensides -----	27	101			

9N/36W-2Z1. Drilled by J. N. Pitcher Drilling Co. Well drilled to 110 ft, backfilled to 107 ft; 4-inch perforated plastic pipe to 107 ft. Altitude is 146.7 ft.

Clay, silty, brown, with some sand and gravel -----	60	60			
Sand, fine, and clay, silty, brown ---	27	87			
Gravel, fine to coarse, and sand, silty, brown -----	5	92			
Shale, silty, soft to hard, gray -----	18	110			

Thickness (feet)	Depth (feet)
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9N/36W-11Z1. Drilled by U.S. Army Corps of Engineers. Open hole to 99 ft. Altitude about 100 ft.

Sand, with clay, silt, and gravel -----	39	39
Mudstone, with layers of sandstone; hard, gray, weathered and fractured, slickensides -----	60	99

9N/36W-12Z1. Drilled by J. N. Pitcher Drilling Co. Well drilled to 130 ft, backfilled to 124 ft; 4-inch perforated plastic pipe to 124 ft. Altitude is 261.2 ft.

Clay, sandy, brown -----	17	17
Sand, fine to medium, silty, brown -----	19	36
Shale, silty, soft, slickensides -----	10	46
Shale, silty, hard, fractured, gray -----	84	130

From data furnished by the U.S. Air Force at Vandenberg and from data collected by the U.S. Geological Survey. Symbols: Ds well destroyed; N no record; U unused.

		PUMPAGE (thousand gallons)																							
		Calendar year																							
Well number		1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	
7N/34W-19J1		53,128	N	N	N	1,644	21,124	5,651	34,689	15,875	54,637	50,331	13,187	17,639	31,597	15,595	34,034	115,654	307,879	161,234	124,561	89,543	56,250	100,032	
19J3																			N	263,682	301,906	384,370	156,841	264,707	
19L2																		202,518	907,820	N	130,386	117,419	84,656	119,343	
20K4		256,750	48,105	N	N	21,228	89,181	104,549	205,589	351,905	293,093	123,219	92,869	99,575	118,907	87,513	189,455	DS							
20K5																		590,580	504,811	479,181	412,066	269,984	389,298	297,564	
20L1																			N	386,095	534,773	378,112	433,612	373,483	
20M2		6,147	N	N	N	N	79,905	13,717	51,733	110,940	255,210	28,283	76,432	38,702	39,686	113,830	206,570	314,421	271,688	260,524	292,483	438,171	467,603	367,451	
7N/35W-21L4																		N	9,086	16,431	7,423	1,261	3,217		
23B1		9,843	6,166	N	N	N	1,706	N	N	N	364	DS													
24H2		185,929	45,445	N	N	N	8,477	66,489	74,430	39,357	16,229	59	263	32,837	103	3,631	72,137	149,689	647,545	U					
33J2																		N	65,150	43,566	30,890	32,634	40,484	28,580	
33J3																		15,964							
8N/34W-16C1																			N	26,833	29,476	33,647	35,461	38,767	
16J1																						N	126,353	20,626	
																						N	248,417	577,473	

Table 8.--Pumping tests of wells

Source of data: The source of data for each line is indicated by the following symbols: AF U.S. Air Force; CE U.S. Army Corps of Engineers; D driller; GS U.S. Geological Survey; N U.S. Navy; PGE Pacific Gas and Electric Co.

Depth of well: The depth shown is the depth of the well, in feet, as shown in table 1, and is not necessarily the depth on the date of the pumping test.

Pumping rate: The pumping rate, reported in gallons per minute (gpm), is the rate at which the well was pumped during the test, and is not necessarily the maximum capacity of the well.

Static water level: The static, or standing, water level is the reported depth to water below land surface datum at the time of the test.

Drawdown: The drawdown is the difference, in feet, between the static water level and the pumping water level.

Specific capacity: The specific capacity is a measure of the physical condition of the well and the aquifer or aquifers which it penetrates. A well with a large specific capacity is capable of a greater yield than a well with a small specific capacity. Specific capacity is obtained by dividing the pumping rate, in gallons per minute, by the drawdown, in feet.

Well number	Source of data	Depth of well (feet)	Date tested	Pumping rate (gpm)	Static water level (feet)	Drawdown (feet)	Specific capacity (gpm/ft of dd)
6N/35W-2D1	D	475	7- 8-58	20	215.85	107	0.2
6N/36W-23R2	CE	174	12-30-43	90	132.3	4.6	19.5
	CE		12-30-43	215	132.3	7.5	28.7
26C1		476		3		300	.01
26E1	N	476	9-13-43	12	133	261	.05
			10-28-43	8	132	105	.08
26G1		220.2		10		4	2.5
7N/34W-19J1	D	182	10-10-41	500	21.8	89	5.6
	D		10-10-41	1,050	21.8	97	10.8
	PGE		11- 1-55	608	30.5	16	38.0
20K4	CE	186	10-13-41	500	15.7	39	12.8
	CE		10-13-41	1,820	15.7	107	17.0
	PGE		11- 1-55	1,130	29.8	42.4	26.6
20K5	CE	177	12- 1-58	1,000	20.0	55	18.2
	CE		12- 1-58	1,500	20.0	82	18.2
	CE		12- 1-58	1,880	20.0	106	18.2
	CE		12- 1-58	2,050	20.0	110	18.6
	CE		12- 1-58	2,100	20.0	120	17.5
20L1	CE	184	4- 8-59	890	35.0	12	74.2
	CE		4- 8-59	1,040	35.0	15	69.3
	CE		4- 8-59	1,370	35.0	20	68.5
	CE		4- 8-59	1,850	35.0	28	66.1
	CE		4- 8-59	2,050	35.0	36	56.9

Well number	Source of data	Depth of well (feet)	Date tested	Pumping rate (gpm)	Static water level (feet)	Drawdown (feet)	Specific capacity (gpm/ft of dd)
7N/34W-20M2	PGE	192	11- 1-55	1,150	27.0	85.6	13.4
	AF		1958	925		64	14.5
20R1	CE	177	4-25-59	360	26	21	17.1
	CE		4-25-59	490	26	35	14.0
	CE		4-25-59	590	26	49	12.0
	CE		4-25-59	740	26	56	13.2
	CE		4-25-59	940	26	75	12.5
	CE		4-25-59	940	26	75	12.5
21J1	D	80	1-20-30	375	12	29	12.9
7N/35W-18H1	GS	111.5	9-13-63	70	1.40	5	14.0
18J2	GS	121.7	7-27-63	60	4.11	70	0.9
20J4	D	160	6-27-26	1,000	12	38	26.3
21L4	D	181	4- -54	1,300	7.8	42	31.0
22F3	D	190	3-26-54	1,300	14	41	31.7
22L1	D	219	8- -34	1,080	24.6	22.4	48.2
22N2	D	194	7-16-58	75	6.5	10	7.5
	GS		7-22-58	380		30	12.7
23B1	PGE	190	11- 1-55	363	18.3	67.8	5.4
23D1	CE	206	11-12-41	100	26.73	110	.9
26P1	D	176	5-10-54	200	Flowing	86	2.3
32N1	GS	300	7-23-58	10	9.23	120	.08
33J1	D	380	6-18-58	50		18	2.8
	GS		6-24-58	125		52	2.4
33J2	GS	465	10- 8-58	900	114	148	6.1

Well number	Source of data	Depth of well (feet)	Date tested	Pumping rate (gpm)	Static water level (feet)	Browdown (feet)	Specific capacity (gpm/ft of dd)
7N/35W-33R1	D	425	4-28-58	43	110	50	.9
	GS		4-28-58	180	110	280	.6
35C2	D	122	1934	1,050		30	35.0
	D		1934	1,400		50	28.0
35C5	GS	157	10-29-55	350	1.75	85	4.1
8N/34W-16G1	CE	687	4-30-58	440	Flowing	16.5	26.7
	CE		4-30-58	640	Flowing	28.0	22.9
	CE		4-30-58	850	Flowing	40.0	21.2
	CE		4-30-58	1,050	Flowing	52.0	20.2
	CE		4-30-58	1,180	Flowing	60.0	19.7
16G2	CE	700	12-18-64	510	18	16	31.9
	CE		12-18-64	750	18	23	32.6
	CE		12-18-64	1,000	18	29	34.5
	CE		12-18-64	1,500	18	37	40.5
16J1	CE	578	10- 2-61	650	2.5	36	18.1
	CE		10- 2-61	950	2.5	51	18.6
	CE		10- 2-61	1,060	2.5	54	19.6
	CE		10- 2-61	1,250	2.5	63.5	19.7
	CE		10- 2-61	1,620	2.5	85.5	18.9
18C1	D	75	7- 5-57	70	17.5	28.5	2.5
8N/35W-324	CE	182	4-25-58	5	77.5	31	.2
	CE		4-25-58	10	77.5	47	.2

Well number	Source of data	Depth of well (feet)	Date tested	Pumping rate (gpm)	Static water level (feet)	Drawdown (feet)	Specific capacity (gpm/ft of dd)
8N/35W-7R1	D	100	7- 1-57	100	2.5	39.5	2.5
17B1	D	70	7- 1-57	70	3.5	51.5	1.4
9N/35W-18L1	CE	99	5-17-61	18.5	73	1.5	12.3
	CE		5-17-61	26	73	2.5	10.4
	CE		5-17-61	40	73	5.5	7.3
	CE		5-17-61	48.5	73	8.0	6.1
18Z3	CE	110	12-12-62	86	32.0	47	1.8
20J1	CE	68	10- 1-60	24	15	1	24.0
	CE		10- 1-60	35	15	1.5	23.3
	CE		10- 1-60	37	15	2	18.5
	CE		10- 1-60	56	15	3	18.7
	CE		10- 1-60	60	15	4	15.0