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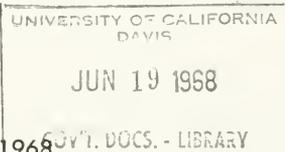
BULLETIN No. 91-15

WATER WELLS AND SPRINGS IN
BORREGO, CARRIZO, AND SAN FELIPE
VALLEY AREAS

SAN DIEGO AND IMPERIAL COUNTIES
CALIFORNIA

Prepared by
United States Department of Interior
Geological Survey

FEDERAL-STATE COOPERATIVE GROUNDWATER INVESTIGATIONS



JANUARY 1968

RONALD REAGAN
Governor
State of California

WILLIAM R. GIANELLI
Director
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This report is one of a series, prepared by the U.S. Department of the Interior, Geological Survey, Water Resources Division, which presents basic data on wells and springs obtained from reconnaissance surveys of desert areas. These investigations are made by the Geological Survey under a cooperative agreement whereby funds are furnished equally by the United States and the State of California. The reports in this Bulletin No. 91 series are being published by the Department of Water Resources in order to make sufficient copies available for use by all interested agencies and the public at large. Earlier reports of this series are:

- Bulletin No. 91-1: Data on Wells in the West Part of the Middle Mojave Valley Area, San Bernardino County, California
- 91-2: Data on Water Wells and Springs in the Yucca Valley-Twenty-nine Palms Area, San Bernardino and Riverside Counties, California
- 91-3: Data on Water Wells in the Eastern Part of the Middle Mojave Valley Area, San Bernardino County, California
- 91-4: Data on Water Wells in the Willow Springs, Gloster, and Chaffee Areas, Kern County, California
- 91-5: Data on Water Wells in the Dale Valley Area, San Bernardino and Riverside Counties, California
- 91-6: Data on Wells in the Edwards Air Force Base Area, California
- 91-7: Data on Water Wells and Springs in the Chuckwalla Valley Area, Riverside County, California
- 91-8: Data on Water Wells and Springs in the Rice and Vidal Valley Areas, Riverside and San Bernardino Counties, California
- 91-9: Data on Water Wells in Indian Wells Valley Area, Inyo, Kern, and San Bernardino Counties, California
- 91-10: Data on Wells and Springs in the Lower Mojave Valley Area, San Bernardino County, California
- 91-11: Data on Water Wells in the Western Part of the Antelope Valley Area, Los Angeles and Kern Counties, California
- 91-12: Data on Water Wells in the Eastern Part of the Antelope Valley Area, Los Angeles County, California
- 91-13: Water Wells and Springs in Soda, Silver, and Cronise Valleys, San Bernardino County, California
- 91-14: Water Wells and Springs in Bristol, Broadwell, Cadiz, Danby, and Lavic Valleys and vicinity, San Bernardino and Riverside Counties, California



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Water Resources Division
District Office
345 Middlefield Road
Menlo Park, California, 94025

October 16, 1967

Mr. William R. Gianelli, Director
Department of Water Resources
State of California--Resources Agency
Post Office Box 388
Sacramento, California, 95802

Dear Mr. Gianelli:

We are pleased to enclose, for publication by the Department of Water Resources, the U.S. Geological Survey report on "Water Wells and Springs in Borrego, Carrizo, and San Felipe Valley Areas, San Diego and Imperial Counties, California," by W. R. Moyle, Jr.

This report--one of a series on the desert region of southern California--was prepared by our Garden Grove subdistrict office, in accordance with the cooperative agreement between the State of California and the U.S. Geological Survey. It tabulates all available data on wells and springs in the indicated area and contains maps showing the location of wells and springs and the reconnaissance geology with special reference to the water-yielding deposits.

Very truly yours,

R. Stanley Lord
District Chief

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ABSTRACT

This report is one of a series prepared by the U.S. Geological Survey in accordance with a cooperative agreement with the Department of Water Resources. It tabulates all available data on water wells and springs in the Borrego, Carrizo, and San Felipe Valley areas of the southern California desert region. It also contains maps showing the location of wells and springs and the reconnaissance geology with special reference to the water-yielding deposits.

WATER WELLS AND SPRINGS IN BORREGO, CARRIZO, AND SAN FELIPE
VALLEY AREAS, SAN DIEGO AND IMPERIAL COUNTIES, CALIFORNIA

By W. R. Moyle, Jr.

PURPOSE AND SCOPE OF THE WORK AND REPORT

The data in this report were collected by the U.S. Geological Survey as a part of the investigation of water wells and springs and the general hydrologic conditions throughout much of the desert region of southern California. The study was made in cooperation with the California Department of Water Resources.

The desert regions of California are characteristically nearly barren mountain ranges and isolated hills surrounding broad alluvial valleys. The valley areas generally contain ground water that has a wide range in chemical quality, but much of the water can be, and has been, developed for beneficial use.

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

Accordingly, the scope of the work includes: (1) A brief reconnaissance of major geologic features to determine the extent and general character of the deposits that contain the ground water; (2) a field examination of almost all water wells and springs in the area to determine their location with respect to the public land net and to local geographic and cultural features; to record well depths and sizes, types and capacities of pumping equipment, uses of the water, and other pertinent information available at the well or spring site; (3) measurement of the depth to the water surface below an established and described measuring point at or near the land surface; (4) selection of representative wells to be measured periodically to detect and record changes of water level; and (5) collection and tabulation of well and spring records, including well logs, water-level measurements, chemical analyses, and pumping-test data.

The work was under the general supervision of Walter Hofmann and R. Stanley Lord, successive district chiefs in charge of water-resources investigations in California, and under the immediate supervision of L. C. Dutcher, chief of the Garden Grove subdistrict office. The fieldwork was carried on intermittently between July and August 1966 from the Garden Grove subdistrict office of the Water Resources Division.

LOCATION AND GENERAL FEATURES OF THE AREA

As described in this report, the Borrego, Carrizo, and San Felipe Valleys have a total area of about 1,200 square miles, approximately between long $116^{\circ}00'$ and $116^{\circ}37'$ W. and lat $32^{\circ}45'$ and $33^{\circ}26'$ N. (fig. 1). The approximate boundaries of the area are the San Diego-Riverside county line on the north; long $116^{\circ}00'$ E., on the east; lat $32^{\circ}45'$ N., on the south; and long $116^{\circ}30'$ E. and the crest of the In-ko-pah Mountains, on the west. About half the area lies within the Anza-Borrego State Park. Access is by State Highway 78 and numerous paved and unpaved county roads.

Borrego Springs, Julian, and Ocotillo Wells are the principal towns; however, many other small settlements are scattered throughout the area.

The base maps (figs. 2 and 3) were compiled from all or parts of U.S. Geological Survey topographic quadrangle maps, scale 1:62,500, as follows: Borrego, Borrego Mountain, Carrizo Mountain, Clark Lake, Mount Laguna, Rabbit Peak, and Santa Ysabel.

The drainage basins are tributary to the Salton Sea which is east of the area, but part of the area has internal drainage. Coyote Creek, in the northern part of the area, is the major perennial stream. Some small perennial streams are fed by springs. Water in most of the smaller streams flows only a short distance toward the valley from the mountain front before it either evaporates or percolates into the alluvial deposits.

The principal landforms are large alluvial fans which extend into the basins from the surrounding mountains. The mountain areas are composed of granitic, metamorphic, sedimentary, and volcanic rocks which yield only small quantities of water to wells and springs. These rocks underlie a large part of the catchment area of the watershed but are of little importance with respect to the water supply. The lower parts of the valleys are occupied by playas which are usually dry, except during and for a short time after infrequent periods of precipitation and stream runoff.

PREVIOUS WORK AND ACKNOWLEDGMENTS

Data on ground water in the Borrego, Carrizo, and San Felipe Valley areas are in several reports by the U.S. Geological Survey, the U.S. Department of Agriculture, and the California Division of Mines and Geology. Some information can be found also in masters theses on file at the University of Southern California, Los Angeles.

The geology was compiled and modified by W. R. Moyle, Jr., from unpublished mapping in the Borrego, Borrego Mountain (formerly called Barrel Springs quadrangle), Carrizo Mountain, Clark Lake, and the Rabbit Peak quadrangles by T. W. Dibblee, Jr., and from unpublished and published mapping by Richard Merriam (1958) in the Mount Laguna and Santa Ysabel quadrangles. Geologic mapping in the northeast quarter of the Carrizo Mountain quadrangle by Duane D. Smith, in the Borrego Mountain quadrangle by Earl R. Morley, Jr., and in the northeast part of the Mount Laguna quadrangle (Agua Caliente Springs quadrangle) by Glen Neil Buttram, was also used. These geologic maps are all from unpublished masters theses, the University of Southern California, Los Angeles.

The cooperation of these geologists, the staff of the Department of Paleontology, Los Angeles County Museum, many well owners, drillers, and others who contributed materially to the completeness of the data presented in this report is gratefully acknowledged.

GEOLOGIC AND HYDROLOGIC FEATURES OF THE AREA

Geologic Units and Their Water-Bearing Character

The geologic formations in the Borrego, Carrizo, and San Felipe Valley areas have dissimilar water-bearing characteristics but, in general, the deposits of late Tertiary and Quaternary age are more permeable than the older rocks of pre-Tertiary and late Tertiary age. The Quaternary deposits generally underlie the valleys and contain much of the ground water stored in the area. Rocks of pre-Tertiary age form the mountains and hills, underlie the water-bearing deposits, and form the boundaries of the ground-water basin; these rocks are nearly impermeable, but are important because the mountains and hills receive the major part of the precipitation within the drainage area. It is the runoff from the mountains and hills that contributes most of the recharge to the ground-water body in the unconsolidated deposits.

The oldest unit in the area is the basement complex composed of granite, schist, and gneiss, all of pre-Tertiary age. The basement complex is generally impermeable, but fractures and weathered zones yield small quantities of water to wells.

The older continental rocks of Miocene age are the Split Mountain Formation of Tarbet and Holman (1944) and the Fish Creek Gypsum of Dibblee (1954). The age of the Split Mountain Formation, originally considered Miocene(?) by Tarbet and Holman (1944), is now assigned to the Miocene because it underlies and overlies Miocene units. The Split Mountain Formation is composed of gray, granitic conglomerate; dioritic breccia; hard buff sandstone; and red, arkosic sandstone. The Fish Creek Gypsum, deposited mostly in playas, is composed of silt, clay, and white beds of gypsum and anhydrite. No wells penetrate this unit; it probably would not yield water of quantities usable for irrigation.

The volcanic rocks, of Miocene age, consist entirely of the Alverson Andesite Lava of Dibblee (1954) which is dark-brown, andesitic lava. This unit overlies the Split Mountain Formation and underlies the Fish Creek Gypsum. No wells penetrate the volcanic rocks; they probably would not yield much water to wells.

The marine rocks probably range in age from late Miocene to early Pliocene on the basis of fossil camel bones found embedded in oyster and mollusk shells in the NE $\frac{1}{4}$ sec. 32, T. 11 S., R. 9 E. The age of the fossil was determined by the staff of the Los Angeles County Museum. Other fossils described by Hanna (1926) also indicate the same age range. The marine rocks include the Imperial Formation (Hanna, 1926), composed of gray to yellow claystone, buff sandstone, and oyster shells, other mollusks, and corals. Some deep oil-test holes have been drilled into the marine deposits, but none are known to have produced large quantities of fresh water.

The younger continental deposits, of Pliocene and Pleistocene age, include the Canebrake Conglomerate of Dibblee (1954), the Palm Spring Formation (Woodring, 1931), the Borrego Formation of Tarbet and Holman (1944), and the Ocotillo Conglomerate of Dibblee (1954). The Canebrake Conglomerate is composed mainly of gray pebbles and cobbles. The Palm Spring Formation consists of arkosic sandstone and red clay. The Borrego Formation is composed of light-gray lacustrine claystone, siltstone, and minor amounts of buff sandstone. The Ocotillo Conglomerate is composed of gray conglomerate and fanglomerate. Many deep wells in Borrego Valley having large yields probably penetrate the upper part of this unit. Available data indicate that the water is probably of good chemical quality.

The older alluvium, of Pleistocene age, underlies most of the valley floor and is overlain by a veneer of younger material. The older alluvium consists mainly of moderately sorted gravel, sand, silt, and clay. It is oxidized and generally unconsolidated, but in some places it is slightly cemented. This unit is permeable, extends below the water table in most areas, and, where saturated, yields water freely to wells. It is the principal water-bearing unit in the valley areas.

The older fan deposits, of Pleistocene age, are composed of unconsolidated to moderately consolidated sand, gravel, and boulders derived from the granitic and metamorphic rocks. Where saturated, the deposits yield water to wells.

The younger alluvium, of Recent age, consists of unconsolidated gravel, sand, silt, and clay. Deposition is taking place presently in the valley areas during times of infrequent precipitation. This unit is permeable and, where saturated, will yield some water to wells. However, it is thin and usually is above the water table. Although it transmits water from the intermittent streams to the ground-water body, it is not an important water-bearing unit.

The younger fan deposits, also of Recent age, consist of sand, gravel, and boulders derived from the local mountain areas. The deposits are generally very poorly sorted. This unit, generally above the regional water table, is not an important water-bearing unit.

The playa deposits, of Recent age, are composed of clay with some sand and silt. Of the playas shown in figures 2 and 3 only the Borrego Sink was a discharging playa in the recent past, having water levels at or near land surface. However, at the present time water levels are below land surface. Where saturated, this unit yields some water to wells.

The sand deposits, of Recent age, are composed of actively drifting fine to medium sand. In parts of the area this unit is saturated and yields small quantities of water, usually of inferior chemical quality.

The lake deposits, of Recent age, are composed of alternating beds of sand and clay. These deposits presumably were laid down in ancient Lake Cahuilla which formerly covered a large part of Imperial and Coachella Valleys. Where saturated, this unit would probably yield moderate quantities of water to wells.

Recharge and Discharge of Ground Water

Recharge to the ground-water body of the area occurs by direct infiltration of rain, subsurface flow from the adjoining areas, and percolation of infrequent runoff during flash floods in the surrounding mountain areas. Rainfall in Borrego Valley ranges from 2 to 6 inches annually, but in the mountain area near the town of Julian it ranges from 19 to 24 inches. Well measurements made during the period 1952-65 indicate that a significant decline in water levels has occurred in the area north of the Borrego Sink in Borrego Valley. Declines have been as great as 35 feet.

Ground water in the area east of Julian flows from San Felipe and Earthquake Valleys to the east beneath San Felipe Creek. This water enters Borrego Valley and flows eastward toward the Salton Sea. Ground water in Mason Valley flows eastward through Vallecito and Carrizo Valleys, and beneath Carrizo Wash toward the Salton Sea.

GEOPHYSICAL INVESTIGATION

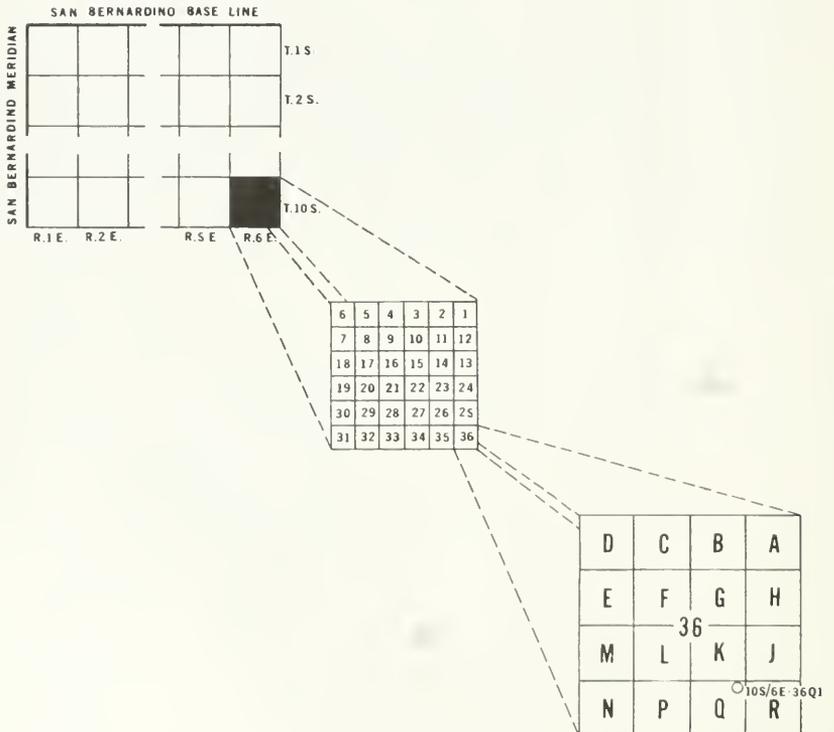
The geophysical traverses shown in figures 2 and 3 were made to detect faulting in areas covered by alluvium. These faults act as barriers to the movement of ground water in the alluvium. The exact position of the fault is needed to determine direction of ground water flow. During the investigation, sixteen magnetometer traverses were made with a Schmidt-type magnetometer (NR 97109).

The sensitivity of the instrument used is 17.6 gammas per scale division. The data were not reduced to a regional datum because isolated profiles were not related to a common base station. The data in each case were used to determine local discontinuities in the magnetic field, presumably caused by faulting.

The data used for projecting faults across the alluvial-filled basins can be seen at the U.S. Geological Survey office in Garden Grove, Calif.

WELL- AND SPRING-NUMBERING SYSTEM

Wells and springs are assigned numbers according to their location in the rectangular system for the subdivision of public land. For example, as shown in the accompanying diagram, in the number 10S/6E-36Q1 the part of the number preceding the slash indicates the township (T. 10 S.), the part between the slash and the hyphen indicates the range (R. 6 E.), the number between the hyphen and the letter indicates the section (sec. 36), and the letter indicates the 40-acre subdivision of the section.



Within the 40-acre tract wells are numbered serially, as indicated by the final digit. Thus, well 10S/6E-36Q1 is the first well to be listed in the SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 36, T. 10 S., R. 6 E., San Bernardino base line and meridian. Springs are numbered similarly except that an S is placed between the 40-acre subdivision letter and the final digit, as shown in the following spring number: 9S/5E-5DS1.

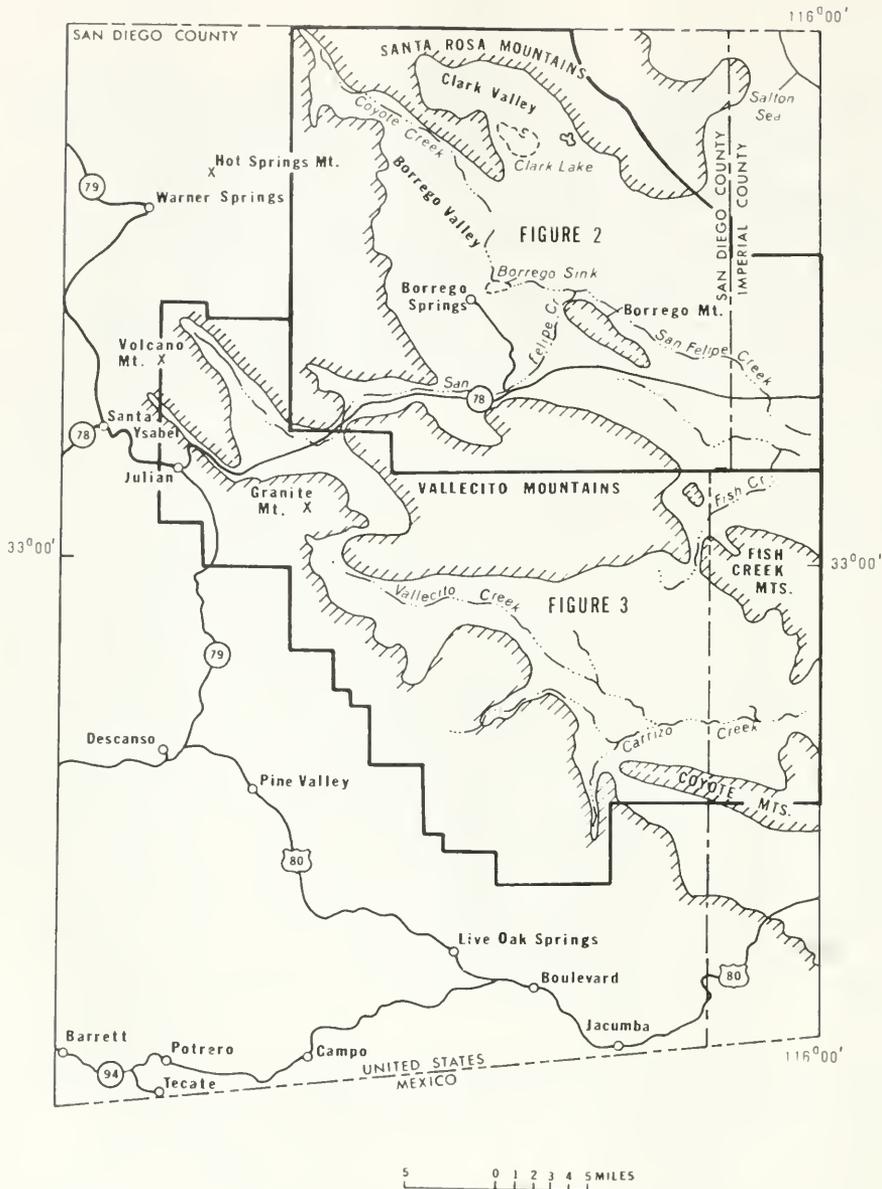
The letter Z, substituted for the letter designating the 40-acre tract, indicates the well was plotted from unverified descriptions; the described locations of such wells were visited, but no evidence of a well could be found.

There are a few exceptions to this system of numbering wells according to their position in the 40-acre subdivision of the section. These are wells which, usually having long periods of record, were assigned numbers based on earlier, less accurate maps. During this investigation, these wells have been plotted at the correct location on the map, but the old number has been retained to facilitate use of the older records for the well.

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MAP OF PART OF SOUTHERN CALIFORNIA
SHOWING AREA COVERED BY THIS REPORT

APPENDIX A

TABLE 1. DESCRIPTION OF WELLS AND SPRINGS
IN BORREGO, CARRIZO, AND SAN FELIPE VALLEY AREAS,
SAN DIEGO AND IMPERIAL COUNTIES, CALIFORNIA

Table 1.--Description of wells and springs in Borrego, Carrizo, and San Felipe Valley areas, San Diego and Imperial Counties, California

State 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 the well- and spring-numbering system.

Other numbers and source of data: The source of data on each line is indicated by the following symbols: D driller; DA U.S. Department of Agriculture; DCO California Division of Gas and Oil; DMR California Department of Water Resources; GS U.S. Geological Survey; HE letter from the hydraulic engineer; I Ellis and Lee (1919); JSB Brown (1923); M Mendenhall (1909); O owner; P pump company; W Bradshaw and Donnan (1952).

Date of observation: Data for each well or spring are presented in reverse chronological order, with the most recent well canvass information summarized on the top line, opposite the well or spring number. Where only the year is shown, no date was given in the source reference.

Owner or user: The owner or user of the well or spring is listed along with the number or name he assigned to the well or spring.

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

Depth: Depths of wells and springs 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 symbols: C cable-tool drilled; D dug by hand; R rotary drilled. The number following the letter is the diameter of the casing, in inches. For an unsymmetrically dug well, only the maximum dimension is given. N indicates no casing.

Type of pump and power: The type of pump is indicated by the letter symbols: C centrifugal; J jet; L lift; N none; S submersible; Sf siphon; T turbine. Horsepower, where known, is given only for electric motors; D diesel; E electric; G gasoline; Gr gravity; H human; N none; and W wind.

Use: The use of the well or spring is indicated by the following symbols: Dm domestic; Ds destroyed or dry; In industrial; Ir irrigation; Ps public supply; S stock; T test hole, not cased; and Un unused.

Measuring point: The point from which water-level measurements are made by the Geological Survey is described as follows: Alg air-line gage; Bhc bottom of hole in casing; Epb bottom of pump base; Hpb hole in pump base; Lsd land-surface datum; Tap top of access pipe; Tc top of casing; Tcc top of casing cover; Tf top of flange; and Tpb top of pump base. All Geological Survey measurements are from the same measuring points unless otherwise indicated.

Altitude: The altitude given is the altitude, in feet above mean sea level, of the land-surface datum, the plane of reference, at the well or spring. Altitudes, given to the nearest foot, were interpolated from Geological Survey topographic maps having 40- and 80-foot contour intervals.

Water level: Measured depths to water are given in feet, tenths of a foot, and hundredths of a foot, or feet and tenths of a foot; reported or approximate depths to water are given in whole feet. All measurements are given from land-surface datum and have had the distance between the measuring point and land surface subtracted or added, depending on whether the measuring point is above or below (-) land-surface datum. A plus (+) indicates the water level is above land-surface datum.

Other data: C chemical analyses of water from wells and springs are given in table 3; L drillers' logs of wells which have five or more measurements are listed in table 2; tests of wells and springs are listed in table 5; W water-level measurements for wells which have five or more measurements are listed in table 2.

State 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
										Descr.	Use			
I. O. S., R. F. E.														
98 (E-20)	GS	1-14-66	Anza-Borrego State Park, Middle Willows						S		1,925	(n)		C,P
92E11	GS	8-1-65	Anza-Borrego State Park						S		1,240	(n)		P
92E11	GS	8-1-65	Anza-Borrego State Park						S		1,240	(n)		P
92E11	GS	8-1-65	Anza-Borrego State Park, Santa Catarina Spring						C		1,240	(n)		C,P
I. O. S., R. F. E.														
96 (E-40)	GS	7-24-65	Anza-Borrego State Park, Hidden Spring						Un	Tec	2,280	(a)		C
6A5E	GS	7-24-65	Anza-Borrego State Park						Un	Tec	2,280	(a)		
36A1	GS	7-24-65		1953	207.0	12	N	N	Un	Tec	2.5	570	16.83	W
96 (E-28)	GS	11-18-53	Ed Dickerson		334	12	N	N	Un					
I. O. S., R. F. E.														
96 (E-28)	GS	7-22-65	Gilbert Rock		0		N	N	Ds		565			
	GS	11-17-53				D	10	L	Ds					
28A1	GS	7-22-65	Gilbert Rock		bl50	C	10	N	Un	Tc	0	565	15.03	P
	GS	3-15-57			16.5	D	36	N	Un				15.57	
28B3	GS	7-22-65	Gilbert Rock		31	D	4	C	Dm		565	15		C,P
	GS	3-15-57			31	C	4	C	Dm		565	15		
28A4	GS	7-22-65	Gilbert Rock		80	C	12	T	Dm	Tc	0	565	22	
29R1	GS	8-1-65		1904	1.5	D	8	N	Ds	Tc	1.0	564		
	M-253	1909	Clark Well		29									
	C	1904												
3101	GS	7-22-65			20.5		6	N	Un	Tc	1.5	570	17.61	
33B1	GS	7-22-65	Claree C. Young			ch	S		Dm	Tec	1.0	570	22.18	
	GS	11-18-53	Thompson		60	D	42	J	Dm	Tc	1.0		(d)	
33B2	GS	7-22-65		1961	750	C	12	N	Un	Tc	2.0	570	20.16	

State 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 (ton)	Distance below lsd (feet)			
T. 10 S., R. 8 E.														
9S/8E-31D51	GS	7-22-65	Anza-Borrego State Park, Rattlesnake Spring									2,960	dry	C
T. 10 S., R. 5 E.														
10S/5E-25R1	GS	7-21-65	Anza-Borrego State Park	1954	490	R 12	S 20		Ps	Tap	2.8	725	258.77	C,L,P
	GS	11- 9-54							Un				238.85	
36A1	GS	7-21-65	Anza-Borrego State Park	bl949	322.0	16	N N		Un	Hpb	1.2	720	245.20	C,P
	GS	11-14-53			350	C	T 10		Ps				213.4	
	DWR	2-26-53											209	
T. 10 S., R. 6 E.														
10S/6E-1A1	GS	7-21-65	Archie Davis			12	T G		Un	Tc	5.0	555	16.24	
5F1	GS	7-26-65	Myron Smith	1951	702	R 16	T 125		Ir	Bhc	1.0	800	e274	C,L,P
	GS	6-26-52	Fazio	1951	702	R 16	T 150						274	
	D	10- -51	Fazio Bros.	1951	702	R 16								
8A1	GS	7-26-65	Myron Smith	1952	624	R 16	T 150		Un			780	256	C,L,P
	GS	11-17-53	Flying M Ranch						Ir					
	GS	4- -53												
8B1	GS	7-23-65	Myron Smith	1945	690	16	N N		Un	Tcc	3.25	760	278.10	W
	GS	6-26-52	Flying M Ranch			16	T 150		Ir					
9L1	GS	7-26-65			52.0	8	N N		Ds	Tc	1.0	720	dry	
8P1	GS	7-26-65	Virginia Pfiesser		648	14	T 75		Un	Hpb	.7	720	(f)	L,P
8Q1	GS	7-26-65	W. C. Schmill		3.0				Ds			720	dry	
	GS	11- 9-54			206.5				Un	Tc	0		218.45	
	GS	11-17-53			223.0				Un					
	GS	6-27-52	H. A. Bernard			12			Un					
9R1	GS	7-26-65	J. Morona	1937		16	S 10		Un			716		
	GS	6-27-52	Widliske						Ir					
9E1	GS	7-26-65	Myron Smith	1945	350	C	S 4		Dm	Tc	.02	720	226.55	P
	GS	6-27-52	Berclud Bros.			16	T 40		Dm					
9F1	GS	7-26-65	James H. Seley	1951	783	R	T 100		Ir			715		L,P
	GS	6-26-52	H. Walrond	1951	783	16	T 100		Ir				209	
	D	6- 1-51		1951										

See footnotes at end of table.

State 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)			
14865-9L	CS	7-26-65	Stuart Moore	1954	694	R 14	T 100		Un	Tap	1.5	711	255.55	P
	CS	11-17-64	Bill Hoppe				T 100		Ir					
341	CS	7-26-65	Sam Fortiner	1945	560	16 T 10	T 100		Ir	Epb		711	261.39	C,L,P
	CS	11-21-65							Ir				212.9	
CS-16D1	CS-16D1	6-27-62	Sam Fortiner	1945	634	16 T D	T D		Ir					
CS-16E	CS	7-36-65	Sam Fortiner		0	N 11	H		Ds			711	dr.	
	CS	6-27-62	Sam Fortiner		213.0	12			D.					
14L1	CS	7-26-65	James H. Selig	1954		16 T 10	T 100		Ir			690	(g)	P
	CS	11-14-64	J. A. Marovich			14 T 10	T 100		Ir				(g)	
14M1	CS	7-26-65	Stuart Moore	1951	762	16 T 125	T 100		Ir			700	(g)	L,P
	CS	6-27-62	J. A. Marovich	1951	762	16 T 100	T 100		Ir				(g)	
	D	6-27-62		1951	762									
14G1	CS	7-28-65	John W. Hennis	1949	420	12 L N	L N		Un	Tec	4.3	620	123.91	L
	CS	11-14-63		1949	420	12 L N	L N		Un				107.3	
14K1	CS	7-28-65	Frances Benton	1944	416	12 T G	T G		Ds			620		
	CS	11-19-53	Jim Millery						Un					
14D1	CS	7-25-65	DiGiorgio Fruit Corp., well 11	1946	712	R 16 T 100	T 100		Ir	Tc	.5	660	(g)	C,L,P
	CS	6-24-62			712	R 16 T 100	T 100		Ir				(g)	
14E1	CS	7-25-65	DiGiorgio Fruit Corp., well 14	1952	700	16 T 100	T 100		Ir	Bhc		660	200.4	C,L,P
	CS	5-24-62				16 T 100	T 100		Ir				(g)	
14K1	CS	7-25-65	DiGiorgio Fruit Corp., well 15	1952	700	16 T 100	T 100		Ir			660	dry	
	CS	11-21-65			130.0	14 N N	N N		Ds				172.9	
	CS	5-27-52	H.A. Bernard		430	14 R N	R N		Un	Tc			200.5	
14M1	CS	7-23-65	DiGiorgio Fruit Corp., well 15	1950	797	R 16 T 100	T 100		Ir	Bhc	.7	661	(g)	C,L,P
	CS	4-27-64				R 16 T 100	T 100		Ir				(g)	
1471	CS	4-26-52	Borrego Co-op Farms	1951	553	R 14 T E	T E		Ir	Hgt	.1	710	214.21	L,P
	D	5-1-54		1951	558								204	
14J1	CS	8-19-65	DiGiorgio Fruit Corp., well 12		612	16 T 100	T 100		Un	Bhc	.4	660	210.71	C,L,P
	DMR	1-27-55				16 T 100	T 100		Ir					
	CS	6-25-52				16 T 100	T 100		Ir				(g)	

U.S. G.S. R. E. L. 1-20-1966

See footnotes at end of table.

State 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)			
1004		7-1-40	Diablotto Fruit Corp., Well Co.	1949	160	R 16	T 100		Ir	Tc	0	660	(6)	C, P
1005		11-1-40		1949	700				Un				194.13 199	
1006		1-20-41			500	N N	N N		Ds			640	(7)	C, P
1007		1-21-41	Dr. Ronald	1946	650	16 T 75			Ir	Bhr	.3		(6)	
1008		1-21-41				H N	H		Ds	Tap	1.9	612	186.74	
1009		1-21-41			301	R	T 100		Ir	Tc	1.1		179.00	
1010		1-21-41	Kuhrt	1950	800	R	T 100		Ps	Tap	1.5	610	174.50	
1011		1-21-41	Horro Springs Water Co., Inc.	1966	630	R	T 100		Ir	Tap	1.5	610	(5)	
1012		1-21-41	Horro Valley Improvement Co., Inc.	1960	600		T 100		Ir			630		
1013		7-1-40	Horro Springs Water Co., Inc.	1950	600		T 100		Ir			630	(6)	
1014		1-21-41	Horro Valley Golf and Improvement Co.	1955	730	R	T 100		Un				(5)	
1015		1-21-41	Horro Valley Golf and Improvement Co.	1955	660	R	T 100		Un	Bhr	.4	660	(+)	C, L, P
1016		1-21-41		1955	660	R	T 100		Ir				(6)	
1017		1-21-41	Diablotto Fruit Corp., Well Co.	1945	167.3		H		Ds	Tc	.1	660	dry	C, L, P
1018		1-21-41		1945	660		T 100		Ir				(6)	
1019		1-21-41	Diablotto Fruit Corp., Well Co.	1944	611.1		H		Un	Tc	.1	640	105.03	T, L, P
1020		1-21-41		1944	611.1		H		Un					
1021		1-21-41	Diablotto Fruit Corp., Well Co.	1944	560		T 100		Ir			600	(+)	C, L, P
1022		1-21-41		1944	560		T 100		Ir				(+)	
1023		1-21-41		1944	560		T 100		Ir				(+)	
1024		1-21-41		1944	560		T 100		Ir				(+)	
1025		1-21-41		1944	560		T 100		Ir				(+)	
1026		1-21-41		1944	560		T 100		Ir				(+)	
1027		1-21-41		1944	560		T 100		Ir				(+)	
1028		1-21-41		1944	560		T 100		Ir				(+)	
1029		1-21-41		1944	560		T 100		Ir				(+)	
1030		1-21-41		1944	560		T 100		Ir				(+)	
1031		1-21-41		1944	560		T 100		Ir				(+)	
1032		1-21-41		1944	560		T 100		Ir				(+)	
1033		1-21-41		1944	560		T 100		Ir				(+)	
1034		1-21-41		1944	560		T 100		Ir				(+)	
1035		1-21-41		1944	560		T 100		Ir				(+)	
1036		1-21-41		1944	560		T 100		Ir				(+)	
1037		1-21-41		1944	560		T 100		Ir				(+)	
1038		1-21-41		1944	560		T 100		Ir				(+)	
1039		1-21-41		1944	560		T 100		Ir				(+)	
1040		1-21-41		1944	560		T 100		Ir				(+)	
1041		1-21-41		1944	560		T 100		Ir				(+)	
1042		1-21-41		1944	560		T 100		Ir				(+)	
1043		1-21-41		1944	560		T 100		Ir				(+)	
1044		1-21-41		1944	560		T 100		Ir				(+)	
1045		1-21-41		1944	560		T 100		Ir				(+)	
1046		1-21-41		1944	560		T 100		Ir				(+)	
1047		1-21-41		1944	560		T 100		Ir				(+)	
1048		1-21-41		1944	560		T 100		Ir				(+)	
1049		1-21-41		1944	560		T 100		Ir				(+)	
1050		1-21-41		1944	560		T 100		Ir				(+)	
1051		1-21-41		1944	560		T 100		Ir				(+)	
1052		1-21-41		1944	560		T 100		Ir				(+)	
1053		1-21-41		1944	560		T 100		Ir				(+)	
1054		1-21-41		1944	560		T 100		Ir				(+)	
1055		1-21-41		1944	560		T 100		Ir				(+)	
1056		1-21-41		1944	560		T 100		Ir				(+)	
1057		1-21-41		1944	560		T 100		Ir				(+)	
1058		1-21-41		1944	560		T 100		Ir				(+)	
1059		1-21-41		1944	560		T 100		Ir				(+)	
1060		1-21-41		1944	560		T 100		Ir				(+)	
1061		1-21-41		1944	560		T 100		Ir				(+)	
1062		1-21-41		1944	560		T 100		Ir				(+)	
1063		1-21-41		1944	560		T 100		Ir				(+)	
1064		1-21-41		1944	560		T 100		Ir				(+)	
1065		1-21-41		1944	560		T 100		Ir				(+)	
1066		1-21-41		1944	560		T 100		Ir				(+)	
1067		1-21-41		1944	560		T 100		Ir				(+)	
1068		1-21-41		1944	560		T 100		Ir				(+)	
1069		1-21-41		1944	560		T 100		Ir				(+)	
1070		1-21-41		1944	560		T 100		Ir				(+)	
1071		1-21-41		1944	560		T 100		Ir				(+)	
1072		1-21-41		1944	560		T 100		Ir				(+)	
1073		1-21-41		1944	560		T 100		Ir				(+)	
1074		1-21-41		1944	560		T 100		Ir				(+)	
1075		1-21-41		1944	560		T 100		Ir				(+)	
1076		1-21-41		1944	560		T 100		Ir				(+)	
1077		1-21-41		1944	560		T 100		Ir				(+)	
1078		1-21-41		1944	560		T 100		Ir				(+)	
1079		1-21-41		1944	560		T 100		Ir				(+)	
1080		1-21-41		1944	560		T 100		Ir				(+)	
1081		1-21-41		1944	560		T 100		Ir				(+)	
1082		1-21-41		1944	560		T 100		Ir				(+)	
1083		1-21-41		1944	560		T 100		Ir				(+)	
1084		1-21-41		1944	560		T 100		Ir				(+)	
1085		1-21-41		1944	560		T 100		Ir				(+)	
1086		1-21-41		1944	560		T 100		Ir				(+)	
1087		1-21-41		1944	560		T 100		Ir				(+)	
1088		1-21-41		1944	560		T 100		Ir				(+)	
1089		1-21-41		1944	560		T 100		Ir				(+)	
1090		1-21-41		1944	560		T 100		Ir				(+)	
1091		1-21-41		1944	560		T 100		Ir				(+)	
1092		1-21-41		1944	560		T 100		Ir				(+)	
1093		1-21-41		1944	560		T 100		Ir				(+)	
1094		1-21-41		1944	560		T 100		Ir				(+)	
1095		1-21-41		1944	560		T 100		Ir				(+)	
1096		1-21-41		1944	560		T 100		Ir				(+)	
1097		1-21-41		1944	560		T 100		Ir				(+)	
1098		1-21-41		1944	560		T 100		Ir				(+)	
1099		1-21-41		1944	560		T 100		Ir				(+)	
1100		1-21-41		1944	560		T 100		Ir				(+)	
1101		1-21-41		1944	560		T 100		Ir				(+)	
1102		1-21-41		1944	560		T 100		Ir				(+)	
1103		1-21-41		1944	560		T 100		Ir				(+)	
1104		1-21-41		1944	560		T 100		Ir				(+)	
1105		1-21-41		1944	560		T 100		Ir				(+)	
1106		1-21-41		1944	560		T 100		Ir				(+)	
1107		1-21-41		1944	560		T 100		Ir				(+)	
1108		1-21-41		1944	560		T 100		Ir				(+)	
1109		1-21-4												

State 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 of well (feet)	Water level below top of well (feet)	Other data
										Distance from top of well (feet)	Distance below top of well (feet)			
T. J. S., R. 6 E., C. 1 N., S. 10 T. 100 N., DiGiorgio Fruit Corp., well 20														
	DWR	1-27-55			530	R 16	T 100		Ir	Bhc	0.1	64	(f)	C, L, P
	GS	11-9-54		1954	710	R 16	T 100		Ir				180 (f)	
2101	GS	7-25-65	DiGiorgio Fruit Corp., well 2		964	R 16	N N		Un	Tcc	0	640	161.4 (f)	C, L, P
	GS	6-24-52		1945		R 16	S E		Ir				(f)	
21D1	GS	7-24-65	DiGiorgio Fruit Corp., well 1		646	R 16	T 100		Ds	Tcc	.3	650	dry	C, L, P
	GS	6-24-52		1945		R 16	T 100		Ir				(f)	
21E1	GS	7-28-65	DiGiorgio Fruit Corp., well 19		900	R 16	N N		Un	Tcc	.1	647	(f)	C, L, P
	GS	6-24-52		1952		R 16	T 100		Ir				(f)	
21F1	GS	7-24-65	DiGiorgio Fruit Corp., domestic well 1		531		T 50		Dm			64		C, L, P
21H1	GS	7-25-65	DiGiorgio Fruit Corp., well 17		157.0		N N		Ds	Tcc	0	635	dry	C, L, P
	GS	6-24-52		1952	752	R 14	T 100		Ir				(f)	
21K1	GS	7-24-65	DiGiorgio Fruit Corp., domestic well 2		150		14		Ds	Tcc	2.0	620	dry	C, L
	D	1957												
21L1	GS	7-24-65	DiGiorgio Fruit Corp., well 5		227.5	R 16	N N		Ds	Tcc	.5	624	dry	C, L, P
	GS	6-24-52		1946	644	R 16	T 100		Ir				(f)	
21M1	GS	7-24-65	DiGiorgio Fruit Corp., well 3		645	R 16	N N		Un	Tcc	0	634	161.4 (f)	C, L, P
	GS	6-24-52		1945		R 16	T 100		Ir				(f)	
21N1	GS	7-24-65	DiGiorgio Fruit Corp., well 18		900	R 16	T 100		Ir	Bhc	-.1	625	8 hl90	C, L, P
	GS	6-24-52		1952		R 16	T 100		Ir				(f)	
22A1	GS	7-26-65	W.B. Buerkle, well 2B		784.0		T 100		Ir			620	(f)	C, L
	GS	16-5-53												
	GS	11-17-53	J. J. Lynn Farms	1953	912	R 14	T 100		Ir	Tc	1.0		131.24 132	
	D	4-13-53												
22A2	GS	7-26-65	W.B. Buerkle, well 3A		908	R 14	T 100		Ir	Bpb	3.0	615	141.70 142 104	L
	GS	11-17-53	J. J. Lynn	1953	908	R 14	T 100		Ir					
	D	1-1-53												

See footnotes at end of table.

T. J. Lynn, R. Lynn, Continued

State 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 amp power	Yield (gpm)	Use	Measuring point		Altitude of top of well (feet)	Water level below top of well (feet)	Other data
										Description of well	Distance from top of well (feet)			
10S/6B-2B7	GS 7-26-65 GS 11-17-53 GS 6-28-52	1952	J.J. Lynn, well 1		R 16	T E			Ds Ds Un	Tc 0.8	620	125.22		
22B4	GS 7-26-65 GS 11-18-53 GS 11-31-52 D 10-22-52	1952	W.B. Buerkle, well 1A J.J. Lynn		750 750 750	R 14 R 14 R 14	T 100 T 100		Ir Ir		620	(g) e g157 e117 119	L,P	
22B3	GS 11-17-53 GS 6-28-52	1952	J.J. Lynn, well 2		680	R 16	N N N N N N		Ds Un		625			
22B4	GS 11-18-53 D 11-22-50	1952	J.J. Lynn, well 2A		770	R 14	N N N N N N		Ds Un	Tc 0	620	111	L	
22B1	GS 7-26-65	1953	W.B. Buerkle, well B		912	R 14	N N N		Un	Tcc 0	620	151.88		
22B2	GS 7-26-65	1953	W.B. Buerkle, well K		912	R 14	N N N		Un	Tcc .5	620	146.75		
22D1	GS 7-24-65		DiGiorgio Fruit Corp., well 26		735		16 T 100		Ir		615	(g)	C,L,P	
22D2	GS 7-9-62 GS 2-9-54 GS 6-28-52 D 6-28-51	1951	Dr. L.G. Campbell		735 735	R 16	T 100		Ir	Bhc .2		162 126.91 (g) 140		
22D3	GS 7-28-65 GS 6-26-52		Frances E. Hemmen Buck Brinniger		200		10 N H L N		Ds Un	Tc 2.0	620	dry		
23B1	GS 7-26-65 GS 11-18-53	1953 1953	DiGiorgio Fruit Corp. Capt. Kimball		300 908 908	R 14 R 14 R 14	T 100 T 75		Un Ir		600	e100.3	L,P	
23C1	GS 11-17-53 DWR 10-3-52 GS 6-15-52	1952 1952	J.J. Lynn, well 3		680 680	R 14			Ds Un	Alk 0	640	e119	P	
23C2	GS 7-26-65 GS 11-18-53 D 2-11-53	1953	W.B. Buerkle, well 4 J.J. Lynn		884	R 14	T 100 T 125		Un Ir	Bhc 2.0	610	128.34 e119	L	
23D1	GS 11-17-53 GS 6-28-52		J.J. Lynn		174		16 N N		Ds Un		61			

State 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 (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
38		11-2-54	W.P. Bierkle	1954		R			Dm		500	(R)	
39		11-2-54	J.J. Lynn						Dm				
40		11-2-54	W.P. Bierkle, well	1954	912	R 14	T 1		Ir	Tc	112	12.12 L	
41		11-2-54	J.J. Lynn	195	912	R 14	T 1		Ir			15	
42		11-2-54	W.P. Bierkle, well	1954	912	R 14	T 1		Ir	Tc	600	124.9' I	
43		11-2-54	J.J. Lynn	195	912	R 14	T 1		Ir			100	
44		12-2-5	F.M. Her	1944	60	12	T 40		Dm		610		C,I
45		11-2-54	W.P. Bierkle, well	1954					Dm			11	
46		11-2-54	J.J. Lynn	195					Dm			10.0	
47		11-2-54	W.P. Bierkle, well	1954					Dm	Hph			
48		11-2-54	J.J. Lynn	1948		12	T 1		Dm				
49		1-22-57	Lewis Brown	1921	1450		T 7		Dm		600		
50		1-22-57	C.J. Broffie						Dm				
51		1-22-57	Lewis Brown	1921	160	C	N N		Un	Tf	600	20.65 W	
52		1-22-57	Oliver Ranch	1921	500		J G		Dm				
53		1-22-57	H. W. Jurey	1961	35	R 10	T 15		Dm		500		P
54		1-22-57	Jin Dever						Un		560		C,I,F
55		1-22-57	Zentz	1955	516	R 14	T D		Ir	Bhc		1.70	
56		1-22-57	Hortiner and Hassel	1954	482	R 14	T G		Un	Tap	555	76.9' P	
57		1-22-57	Pecker		51.0				Ir			61.0	
58		1-22-57	Pecker		90		N N		Ds	Tc	550	dry	
59		1-22-57	Pecker		81.5		N N		Un			56.17	
60		1-22-57	Pecker		224		T 4		Un		550	76.43	
61		1-22-57	Pecker		27.0	8	N N		Ds		550	dry	
62		1-22-57	Pecker		34.0	11	L W		Ds			dry	
63		1-22-57	Pecker		50.0	24	T N		Ds	Tc	550	dry	
64		1-22-57	Diario Fruit Corp., well 9	1946	915	R 16	T 100		Un	Bhc	600	121.6' C,I,F	
65		1-22-57							Ir			(R)	

Continued

10-11-1953. Continued

State 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)			
287	287	1-29-65	DiGiorgio Fruit Corp., well 6			16	T 100		Un	Bhc	1.8	611	161.10	C,I,P
288	288	2-20-65		1946	644	R	T 100		Ir				(g)	
289	289	7-24-65	DiGiorgio Fruit Corp., well 22			16	T 100		Ir	Tc	0	600	136.15	C,I
290	290	1-23-65	R.F. Bowers				L N		Un			575		
291	291	1-23-65					L N		Un					
292	292	7-25-65	DiGiorgio Fruit Corp., well 3			16	T 100		Un	Tc	2.9	640	144.27	C,I,P
293	293	11-7-64							Ir				107.87	
294	294	7-27-65		1946	662	R	T 100		Ir			600		C,I
295	295	7-29-65	DiGiorgio Fruit Corp., well 10			16	T 100		Un					
296	296	1-21-65							Ir	Tc	1.4		1.27	
297	297	1-21-65			599	R	T 100		Ir				(g)	
298	298	1-27-65	Jack Russel						Un	Bpb	2.0	600	147.13	P
299	299	11-18-63	Borrego Co., Farmers	1953	6648		T 100		Ir				101.28	
300	300	1-20-65	Fred Woods			14	T 100		Un					
301	301	1-19-73	Wirk Hauser	1950	595	R	T 75		Un	Hpb	.7	600	133.43	C,I,W
302	302	1-29-65	Anza Co.		150		S 10		Ir				(f)	
303	303	1-11-73	A.A. Bernard		180		T 30		Ir	Tc	.2		(f)	
304	304	7-31-65	First National Bank of San Diego			12	T 30		Dm			720	(t)	P
305	305	11-11-63	Hobergs Desert Resort			12	T 30		Ps				(g)	
306	306	1-27-65	Mathews and Statler				T 50		Ir			575	e k72	
307	307	11-11-64	H. Walrond				T 5		Ir					
308	308	1-30-65	Borrego Water Co., well 1	1947	495	C	T 40		Ps		.5	580	240	P
309	309	1-11-73	A.A. Bernard			12	T 40		Ps				83.6	
310	310	1-24-65	A.A. Bernard				S E		Dm		.7	570	11.08	
311	311	1-11-64							Ir	Bhc			(g)	
312	312	6-23-67	H. Walrond	1950	502	R	T 50		Ir					
313	313	1-27-65	Marlow Hobbs	1952		16	T 50		Ir			576		C,I,I
314	314	7-27-66	A.A. Bernard			14	T 100		Ir	Tc	.5	570	(g)	
315	315	7-21-65							Ir				111.35	

See footnotes at end of table.

State 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 (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 10 S., R. 6 E.--Continued													
33B1	GS	7-10-55	A.A. Bernard		159.7	16 N	N		Un	Tc	0.3	94.95	
33C1	GS	7-29-55	A.A. Bernard		400	16 T	T 75		Ir	Bhc	.3	96.5	P
	GS	6-26-52				16 T	T 60		Ir			69.33	
34M2	GS	7-29-55	A.A. Bernard		518.5	16 N	N		Un	Tc	1.0	94.75	
	GS	6-25-52			400	16 N	N		Un			69.16	
34D1	GS	7-28-55	Carlson Realty	1951	426	R	S E		Dm	Tcc	1.0	78.74	P
	GS	6-26-52	Joel W. Baker, Jr.			16 T	T 50		Ir				
34D2	GS	7-28-55	Carlson Realty	1936	57	8 T	T E		Un				
	GS	6-26-52	Joel W. Baker, Jr.						Dm				
34F1	GS	7-26-55	Carlson Realty		438	R	T 75		Un	Tc	1.0		L,P
	GS	6-26-52	J.V. Costello, Jr.				T 75		Ir			44.03	
	D											59	
34H1	GS	7-29-55	Yasha Helfetz	1951	465	14 T	T 100		Ir				L
	GS	6-26-52	N.J. Benson	1951	465	R	T 75		Ir	Hpb	.6		
	D	8- -51										(g)	
												34	
34K1	GS	7-29-55	Ralph E. Estabrook	1916		12 T	T 5		Dm	Tc	1.1	59.08	P,W
	GS	6-26-52				C	T G		Ir				
34K2	GS	7-29-55				N	N N		Ds	Tc	.5	38.33	
	GS	11-9-54		1916	94	4 L	L 2		Un			32	
	GS	6-26-52	Ralph E. Estabrook	1916									
35M1	GS	7-30-55	Borrego Valley Airport		325		T 3		Dm	Hpb	1.6	43.75	C,W
	GS	11-19-53					T 3		Dm				
36A1	GS	7-23-55	McGinnis		40.0	D	N N		Ds			dry	
	GS	11-18-53					N N		Ds				
36Q1	GS	7-23-55	A. Jones	1951	356	10 N	N N		Un	Tcc	1.0	65.18	P,L,W
	GS	11-19-53	J.E. Jones	1951	356	10 N	N N		Un				
T. 10 S., R. 7 E.													
10S/7E-5Q1	GS	7-22-55			40.0	D	L N		Ds			dry	
8F1	GS	7-22-55			49.0	D	N N		Ds			dry	

State 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. 10 S., R. 7 E.--Continued														
10S/7E-19M1	GS	7-23-65	Sell, Inc.	1952	441.8	R	T D	Un	Un	Bhc	0.8	600	96.18	C,P,W
	GS	6-26-52					N N			Un				
30E1	GS	7-23-65	Pedersen			8	L N	Un	Un	Tec	2.0	580	87.00	
	GS	6-25-52					L N			Un				
30F1	GS	7-23-65	Jack Benson	1951	560	T D	Un	Un	Ir	Lsd	.6	610	e91	L,P
	GS	6-26-52	Raymond Pedersen		560	T D						90	104.86	97.65
30P2	GS	7-23-65	Pedersen	1935	158.4	12 N N	Un	Un	Ds	Tec	0	720	dry	
	GS	11-19-53			160	12 N N								
31A1	GS	8- 2-65	Perna		15.0	D	N N							
T. 10 S., R. 4 E.														
10S/8E-35P1	GS	8-10-65	Anza-Borrego State Park, 17 Palms Spring		1.5	D	N N		Un	Lsd		412	.95	
M-254														
T. 11 S., R. 4 E.														
11S/4E-19Q1	GS	9- 3-65	Teofulio Helm		16	D	N N		Un	Lsd	0	3,680	15.4	
20M1	GS	4- 3-65	Teofulio Helm			24	J E		Dm	Tap	.8	3,656	45.20	
20N1	GS	9- 3-65	Mrs. Don Lachuse	1962		8	J L		Dm	Bhc	.3	3,600	65.89	
20P1	GS	9- 3-65				8	J E		Dm	Tc	2.0	3,477	26.82	
25K1	GS	9- 1-65	Lost Spring		1.5	D	Si Gr		S	Tc	0	3,760	n1.20	F
29B1	GS	9- 3-65	J.D. Madzima	1956	70	6	J J		Dm	Tc	2.0	3,440	m57.87	P
29P1	GS	9- 3-65	Brown	1962	130		J L		Dm			3,440	40	P
29D1	GS	4- 3-65	Brown	1952	30	D	N N		Un	Tec	2.0	3,520	26.89	
29R1	GS	7- 3-65	Ben Fike	1960	39.5		J 3/4		Dm	Hpb	.5	3,200	28.57	
29R2	GS	7- 3-65	Ben Fike	1965	(1)	C	N N		Un			3,160		
30A1	GS	4- 3-65	C. Creddock		6.0	D	Si Gr		Dm			3,700	dry	

See footnotes at end of table.

State 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 (distance below lsd (ft))	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
100-100		4-1-50			5	D 12.0	H		Un	Lsd	3,600	4.2	
100-101		4-1-50	Herman K. Weir			A 3	S 2/3		Dm		3,650	(f)	
100-102		4-1-50	Irving Counts			5	S E		Dm	1.7	3,440	25.0	
100-103		4-1-50	San Nieto County Water Dept.	1946	100.0	10	N H		Un	1.2	3,050	20.0	
100-104		4-1-50			107	10	T S		Dm	1.4	3,250	81.0	P
100-105		4-1-50	San Nieto County Water Dept.	1961	170	4	S 3		Un				
100-106		4-1-50	Wells Fargo	1961	140	4	S E		Dm	1.1	3,100	61.0	
100-107		4-1-50	Wes. Hayman	1948	265	10	L N		Un	.8	3,000	11.0	
100-108		4-1-50			265	10	L W		S			49.1	
100-109		4-1-50	Wells Fargo		36.1	10	N N		Un	1.5	3,000	91.5	
100-110		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-111		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-112		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-113		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-114		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-115		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-116		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-117		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-118		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-119		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-120		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-121		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-122		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-123		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-124		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-125		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-126		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-127		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-128		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-129		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-130		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-131		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-132		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-133		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-134		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-135		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-136		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-137		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-138		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-139		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-140		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-141		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-142		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-143		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-144		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-145		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-146		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-147		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-148		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-149		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-150		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-151		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-152		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-153		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-154		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-155		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-156		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-157		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-158		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-159		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-160		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-161		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-162		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-163		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-164		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-165		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-166		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-167		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-168		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-169		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-170		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-171		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-172		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-173		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-174		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-175		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-176		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-177		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-178		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-179		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-180		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-181		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-182		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-183		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-184		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-185		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-186		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-187		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-188		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-189		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-190		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-191		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-192		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-193		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-194		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-195		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-196		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000	100.19	
100-197		4-1-50	Wells Fargo		36.1	10	S E		Un	1.4	3,000		

State 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 (feet)			
T. L. S., R. S. E.--Continued														
11N/5E-15MS4	GS	8-14-65	Lewis Spring			N	SI Gr		S			3,200	(n)	P
16CS1	GS	8-17-65	Parali Spring			N	N N		Ds			3,700	dry	C
16MS1	GS	8-17-65	By Jim Spring		1	36	N N		Ds			4,000	dry	
16RS1	GS	8-14-65				N	N N		S			3,400	(n)	P
16RS2	GS	8-14-65	Le Cienaje			N	N N		S			3,400	(n)	P
17D1	GS	8-17-65	Ben F. McManama		200	6	S		Dm	Tcc	0.8	4,460	65.60	
17D2	GS	8-17-65	Ben F. McManama		25.0	4	N N		Ds	Tc	0	4,460	dry	
17Z1	GS	8-17-65	Ben F. McManama		0	N	N H		Dc	Tc	1.3	4,460		
18R1	GS	8-17-65	Ben F. McManama			6	S E		Dm	Tc	1.3	4,230	84.46	
21H1	GS	8-14-65	Cottonwood Spring		3.5	D	N N		S	Lsd	0	3,520	43.3	P
22C1	GS	8-14-65	Levine Peroli		4.5	D	SI Gr		Dm	Tcc	0	3,100	4.7	
22CP	GS	8-14-65	Levine Peroli		5.5	D	SI Gr		Dm	Tc	3.0	3,100	45.60	P
22CV	GS	8-14-65	Levine Peroli		5.0	D	SI Gr		S	Lsd	0	3,100	44.7	P
22CS1	GS	8-14-65	Levine Peroli		(p)		SI Gr		S			3,500	(n)	P
22CS2	GS	8-14-65	Levine Peroli				SI Gr		S			3,200	(n)	P
22F	GS	8-14-65	Levine Peroli		3.7	D	SI Gr		Ur	Tcc	-.5	3,100	dry	
22KS	GS	8-16-65	Middle Spring				SI Gr		S			3,700	(n)	P
23NS	GS	8-14-65	BY Spring			8	S E		Dm	Tc	1.2	920		
24B1	GS	8-14-65	Tow Alley				N N		Ds	Tc	5.0	4,400	dry	
24D1	GS	8-15-65	T. L. Canyon Peroli			D	N N		Dm	Tcc	1.3	3,500	42.50	
24D2	GS	8-26-65	A. L. Wilson	1964	4	C	I W		Dm	Tcc	1.3	3,500	42.50	
24M1	GS	8-14-65	Plyon Spring				SI Gr		S			3,750	(n)	C

See notes at end of table.

State 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 above or below?) (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. L. E. R. S. E.													
1406B-1C1	GS	7-23-55	Southern Pacific Co.			16	N N		Un	Tec	520	48.37	C, L, P
	GS	2-24-54								Tap	.7	53.56	
	GS	11-16-53	C.E. Massal	1953	420	R	T 30		Un			21.79	
2C1	GS	7-31-65	Audette		335		T 20		Un	Tc	.5	45.19	C, P
	GS	11-19-53			300	R	T 20		Ir			22.25	
2E	GS	7-31-65	Audette		690		T 5		In	Tc	.5	39.40	
	GS	11-17-53					T 2		Bhc		.2	16.64	
2C3	GS	7-31-65	Audette	1934			N N N		Ds			(E)	L
	GS	11-16-53	A.A. Beatty		660		L W		Dm				
	D	1934				16							
2D1	GS	7-31-65	Audette	1961	160		10 N N		Un	Tc	1.5	42.09	
3A1	GS	7-31-65	Pet Campbell			7	T 2		Dm	Tc	1.5	46.16	
3C1	GS	7-31-65					T 75		Un	Tap	.6	57.97	L, P
	GS	12-8-53	A.A. Bernard	1953	360.0		T 40		Ir	Tc	1.0	39.0	
	O	12-5-53						C					
3D1	GS	7-31-65	Borrego Valley School Dist.				14 N N		Un	Tec	1.5	42.68	C
	GS	11-17-53		1936	78		T 2		Dm			(E)	
3D2	GS	7-31-65	Borrego Valley School		34.0		10 N N		Ds	Tc	1.0	dry	C
	GS	11-16-54		1954	223	R	10 N N		Un			40.22	
3D3	GS	7-31-65	Borrego Valley School Dist.				T 15		Ps				
3E1	GS	7-31-65			64.0		6 N N		Un	Tc	1.0	55.83	C, P
	GS	11-20-53	Perry Bernard		300	R	9 T 20		Ir			(E)	
3E2	GS	7-31-65					14 T 30		Un	Tc	1.0	70.75	L
3F1	GS	8-3-65			76.5		11 N N		Un	Tc	1.5	41.29	L
	GS	12-7-53	Dr. Kennedy		107		10 N N		Un				
3F2	GS	8-3-65					11 T 5		Un				
	GS	12-7-53	Dr. Kennedy				10 T 5		Ir				
3F3	GS	7-31-65	H.A. Bernard				10 N N		Un	Tec	1.5	44.85	L, P
	GS	12-8-53	Perry Bernard				10 T 5		Un	Tc	1.5	23.9	

See footnotes at end of table.

State 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 (feet)			
T. 11 S., R. 6 E.--Continued														
11S/6E-3M1	GS	8- 3-65	Perry Bernard		73.0	R 10	T 10	Un	Bhc	1.0	518	36.57	C	
	GS	12- 7-53			120		T 10	Un				15.1		
3M2	GS	8- 3-65	Perry Bernard		120	11 10	T 10	Un	Tc	2.0	518	(f) 16.07	L,P	
	GS	12- 7-53				10 10	T 10	Ir						
3M3	GS	8- 3-65	Dr. Isham		70.7	11 10	T 10	Un	Bhc	.8	518	39.00	G,P	
	GS	12- 7-53			120	10 10	T 10	Ir				17.2		
3M4	GS	8- 3-65	Dr. Kennedy		73.0	11 10	T 10	Un	Tcc	1.0	520	40.18	L	
	GS	12- 7-53			105	10 10	T 10	Ir	Bhc	0		19.28		
4A1	GS	8- 2-65	Hard Hutton	1948	130	12 12	S 1	Dm	Hpb	.1	538	39.8		
	GS	11-19-53			122.4	12 12	J 3	Dm						
4A2	GS	8- 2-65	Associated Pumps		(1)	10 10	J 1/2	Un	Tcc	.5	540	63.44		
	GS	11-19-53	Walter Borden	1953				Un						
4A3	GS	7-31-65	Mrs. Gorzeman		525		T 3	Dm			540	(f)		
4B1	GS	7-31-65	William Yubas		118	C 10	T 7 1/2	Ir	Ir		540	(g)	L,P	
	GS	11-19-53			118	10 10	T 7 1/2	Ir				(g)		
4D1	GS	7-30-65	Howard Garrison	1933	384	C 12	T 7 1/2	Un	Hpb	.5	560	65.02	L	
	GS	11-19-53	Palms Trailer Court		384		10 T 7 1/2	Ir				67		
	O	10- -53										57		
	D	4- -51												
4D2	GS	7-30-65	Howard Garrison		500		12 N N	Ds			560			
4F1	GS	8-11-65	Borrego Springs Park		387	12 12	N N	Un	Tc	1.0	540	69.97		
4M1	GS	8-10-65	Borrego Springs Park	1913	387	6 6	N N	Un	Tc	1.0	555	89.4		
	GS	12- 8-53	Ensign Ranch	1913	6	6	L 1/2	Dm				82.8		
4M2	GS	7-10-65	Borrego Springs Park, well 2	1932	500	12 12	T 20	Ir	Hpb	.4	555	(f)	P	
	GS	12- 8-53	Ensign Ranch		500	12 12	T 20	Ir				807.6		
4M3	GS	6-11-65	Borrego Springs Park		54.5	12 12	N N	Ds	Tc	1.4	540	dry		
	GS	12- 8-53	Ensign Ranch		63.5	12 12	N N	Un				45.96		
4P1	GS	8-11-65	Borrego Springs Park, well 3	1945	613	16 16	T 100	Ir			540	(f)		
	O	1063												
	GS	12- 8-53	Ensign Ranch	1945	613	16 16	T 25	Ir				(f)		

See footnotes at end of table.

State 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 (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
1055-40		7-1-55			2	D	N		Ds		500		
41		7-1-55			4.5	6	N		Ds	1.5	500		
42		7-1-55			1.5		N		Ds		500		
43		11-1-53	H.A. Bernard				N		Ds		500		
44		7-3-53			4.0	60	N		Ds	0	500	dry	
45		12-1-53	Jerman and Justice			60	N		Un			45.0	
46		7-11-50			10.4	16	N		Un	2.1	600	45.0	W
47		11-1-53	Montgomery S Hindler		17.8	16	N		Un				
48		7-11-55	Borrego Water Co.			12	N		Un	0.2	700	24.4	W, F
49		11-1-53	H.A. Bernard				T	25	P			(8)	
50		7-11-55	Borrego Water Co., well 1	1956	451	10	T	50	Ps		700	216	P
51		11-1-53		1956	451								
52		11-1-53	Lexicon		241.0	12	N		Ds	0	695	4.5	W
53		7-1-55				12	N		Un			212.76	
54		7-11-50	L.A. Bernard	1951	291	11	S	3	Dm		610	51.6	W
55		12-1-53	D. Walters	1951	298	10	T	30	Ir			52.3	
56		7-11-55	Borrego Springs Park, well 4	1960	300		T	125	Ir		570	105	W
57		7-1-55	Borrego Springs School Dist.	1953	151.7	6	T	5	Un	1.5	610	151.6	P
58		12-1-53	Small	1955	170	6	T	5	Dm			130.3	
59		7-11-55	Borrego Springs Park, well 1	1966	400	12	T	50	Ir		540		W, F
60		12-1-53	Ensign Ranch		400		T	20	Ir			(8)	49
61		7-11-50	Borrego Springs Park	1957		8	T	11	Ds		540		
62		12-1-53	Ensign Ranch			8	T	4	Dm				
1051		7-1-53			21.2	9	L	W	Ds	0	505	dry	
1052		12-1-53			20		L	W	Un				
1053		1917	T.O. Fewell		20		D						21

1054-60... 7-1-55... Continued

T. J. L. S., R. C. F. ---Continued

State 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
										Obscure distance (above or below) (feet)	ton			
10D1	62	12-3-55	Michael Krivy	1953	214.5	11	T 1		Un	Tc	518	30.3	P	
	63	12-7-53	Dr. Ostrum			10	T N		Un					
10D2	64	11-3-55	G.M. Kueneman	1954	130	13	T 10		Un	Tc	518	33.46	P	
	65	11-10-54	Dr. Ostrum			12	T 10		Ir			11.85		
10D3	66	11-5-55	Marvin Snider	1964	340	8	S 7 1/2		Dm	Tc	515	49.37	L,P	
10E1	67	12-3-55			5.0	5	N N		Ds	Tc	513	14.4		
	68	12-4-55			25.0	4	N N		Un					
10N1	69	12-7-55	Ray Jacobs		19.0	D 72	N N		Ds	Tc	510	dry		
	70	12-8-53	Ray Jacobs		22.0	D 60	N N		Un			15.05		
10N1	71	12-4-55	Borrego Village Resort	1946	386.0	R 16	T 10		Un	Tc	522	68.91	C,P,W	
	72	12-8-53	Ray Jacobs			16	T 10		Ir					
10N2	73	12-4-55	Borrego Village Resort		23.0	D 36	N N		Ds	Tc	525	dry		
	74	12-8-53	Ray Jacobs		30	D 36	N N		Un			27.35		
10N3	75	11-4-55	Borrego Village Resort	1954	200	R 8	T 5		Dm	Tc	522	19.1		
	76	11-10-54	Ray Jacobs			8	T 1		Dm					
10N4	77	11-4-55	Borrego Villare Resort			6	J 2		Un	Tc	532	67.31		
11D1	78	7-30-55	Lou Burke, well 1	1946	687	14	T 40		Ir	Tc	500	44.40	C,P	
	79	11-16-53	Kesky and Hagenbuck			16	T 40		Ir			40.3		
11D2	80	7-30-55	Lou Burke	1946	207.0	14	S 2		Dm	Tcc	500	16.31	L,W	
	81	11-16-53	Kosky and Hagenbuck		4.0	14	N U		Un					
11D3	82	11-20-53	Kosky and Hagenbuck			N	N U		Ds	Tc	486			
	83	11-20-53	Kosky and Hagenbuck			4	N N		Un			1.7		
11D4	84	11-30-53	W.S. Campbell	1912	104.3	2	N U		Un	Tc	470	29.00	C,P,W	
	85	12-10-53	W.S. Campbell		104.3	3	N N		Un					
11D5	86	11-30-53	Jack French		78	2	N N		Dm			()		
11D6	87	7-30-55	W.S. Campbell			2	N N		Hpb		.9	4.1	P	
	88	12-10-53	W.S. Campbell		68	2	L H		Dm					
11Z1	89	11-30-53	Jack French			2	N N		Ds			()		
	90	7-30-55	W.S. Campbell				N N				900			

See footnotes at end of table.

State 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
14065-141	GS	7-31-65	Bill Hetch	1927	86.3	3½	N N		Un	Tc	475	29.66	
1421	GS	7-29-65			7.0	D	N N		Ds	Tc	475	dry	
1441	GS	7-31-65	Bemis	1920		4	L H		Un	Tc	470		
1441	GS	7-31-65	J.E. Henderson		18.0	D	N N		Ds	Tc	475	dry	
	GS	12-9-53			25.0	D	C N		Un			21.16	
1442	GS	7-30-65	J.E. Henderson	1950	105	8			Dm	Tc	.65	24.70	
1441	GS	8-2-65	Elwood Heiss	1946	96	10	J 1		Dm	Tc	.1	32.45	
	GS	12-8-53	McLaughlin		106								
1442	GS	4-5-65	Ray Wilson Construction Co.	1956	220	10	J 3/4		Dm	Tcc	1.9	28.01	
	GS	11-16-56	Spang and McLaughlin	1956	1212	C	N N			Lsd		13	
1443	GS	8-4-65	A-1 Lodge	1955	148	10	J ½		Dm	Bhc	.28	32.29	P
1444	GS	8-5-65	Volsted	1946	8.0	10	N N		Ds	Tc	2.45	485	
1441	GS	7-30-65	Clyde Bemis	1920	45.6	3	N N		Un	Tc	.4	478	
	GS	12-8-53	McCloud		80	3	C G		Dm			24.61	
	GS	2-18-53			70							1.45	
	GS	8-5-65			0		N N		Ds			n.37	
1421	JSB	1917				4						500	P
15B1	GS	8-5-65	A.E. Blanc		21.3	8	L H		Ds	Tc	.5	500	dry
	GS	12-9-53	Leona Wood		42	D	L H		Dm				
15B2	GS	8-5-65	A.E. Blanc		80	9	J		Dm	Tcc	.9	500	41.69
15B3	GS	8-5-65	Patterson	1957	204	12	T 7½		Un	Tc	1.6	505	45.88 P
15E1	GS	8-4-65	Drumheller			10	T 10		Dm			535	P,L
	GS	12-9-53	Paul Grimm	1951	152	10	T 10		Ir			644.8	
	0	1951											
15E2	GS	8-4-65	N.L. MacDonald	1953	117	10	J 1		Dm	Tc	1.4	520	57.98 L,W
	GS	12-9-53				10	J 1		Dm				
15E3	GS	8-4-65	Mrs. Rose Norman, well 1	1955	83.5	10	N N		Un	Bhc	1.5	520	60.34

T. 11 R. J. E. --- continued

T. 11 S. 1. R. 6 E. --Continued

State 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 or below lsd (feet)			
11S/6E-15E4	GS	8- 5-65	Mrs. Rose Norman, well 2		128.8	3	N N		Un	Tc	1.2	520	60.0L	
15F1	GS	8- 5-65	Norris Bakko			10	T 2		Dm	Tc	1.0	520	h m60.3L	C, F, W
	GS	12- 9-53	Clyde Van Marter	1950		10	T 2		Ir	Hpb	1.0			
	0	1950			122									
15F2	GS	8- 5-65	E.N. Turpin		122	10	T 7½		Dm			510	(g)	L, P
	GS	12- 9-53		1950	122				Ir				30	
	0	1950												
15F3	GS	8- 5-65	Ed. Burnham		140	12	T 1½		Dm	Tc	1.0	505	35.4	
	GS	12- 9-53				12	J 1½		Dm					
15G1	GS	8- 5-65	Highway Maintenance Station			12	T 10		Dm			500	e45	
15H1	GS	8- 5-65	Ed. Duvall		100	12	J 3/4		Dm	Tc	0	495	64.53 P	
	GS	12- 9-53		1927	100	12	L W		Dm				2.5, 5	
16A1	GS	8- 6-65	F.B. Wray		200		T E		Dm			535	80	
16H1	GS	8- 4-65	Drumheller			12	T 40		Un			540		C, L, P
	GS	12- 9-53	Paul Grimm	1950	350	12	T E		Ir					
	D	10-14-50		1950	350								47	
18R1	GS	8-11-65	Fred Osborne			8	S E		Dm	Tcc	.5	760	316.0	
20Q1	GS	8-12-65			5.0	D 42	N N		Ds	Tc	0	875	dr.	
22A1	GS	8- 2-65	Mutual Water Co.		125.6	10	T N		Un	Tc	.4	540	r60.7	C, L, M, P
	GS	12- 9-53	Norris Bakko	1948	134	10	J 1		Dm					
22A2	GS	8- 2-65	Mutual Water Co.		280	10	T 25		Dm			540		P
	GS	12- 4-53	Bud Kuhrtz	1953			T 25		Ir					
	0	11- 5-53												
22B1	GS	8- 2-65	Mutual Water Co.		740		T 27		Ps			540		P
22T1	GS	8- 2-65	Bartlett		290	12	T 3		Dm			627		
	GS	12-10-53		1943	290									
	0	1952												
23D1	GS	8- 2-65	James S. Copley		140	12	T 10		Dm			540		L
	GS	12- 9-53	Bud Kuhrtz	1932					Ps					
	0	4- 5-53												

State 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
										Distance above or below lsd (feet)	Description (feet)			
1406-340	62	5-3-60	Glenn Bostwick		100	1 1/2	T N		Un	T	0.8	550	dry	L
2451	78	8-17-60 1952	Burke, well 1	1952	20.0 290	12	T N		Ds	T	0.0	480	dry	
2461	82	7-29-60	Leac Ranch		35.5	D 48	L H		Ds	T	0.0	580	dry	
2462	82	12-10-63			35.0	D 48	L H		Un			580	1.0 -3.0	
2471	87	7-10-63												
2472	87	1-25-60	Mrs. Bradley Fisk	1963	316.5	7	N N		Un	Tc	0.7	550	200.6	
2481	78	1-24-65 1-10-57	DiGiorgio Fruit Corp.	1957	0 280	12	N N		Ds			750		
2482	88	8-2-65	Mrs. Bradley Fisk	1963	0 3100	0	H N		Ds			120		
2487	78	1-2-65	Paul Skinner	1954	600+	9	N N		Un	Tc	0.3	920	441.6	
B. J. S., R. L. F.														
1107E-611	65	7-31-60			2.2	12	N N		Ds	Tc	0.6	500		
7K1	60	1-31-65			8.7	D 48	N N		Ds	Tc	0.0	480	dry	
7K2	68	1-31-65					T N		Un	Tap	3.6	475	28.31	P,W
7K3	68	2-24-65					T N		Un					
7K4	68	11-23-63	Phil Bartlett	1936	42.4	12	T N		Un					
7K5	68	1-24-65	Borrego Spring		6.2	D 24	N N		Ds	Tc	0.9	480	dry	
1771	JSE-6 8-25-60	12-1-17 1909	Borrego Springs						Dm			450	(n)	
2011	68	1-24-65	Bing Crosby and Helen Alvarez		368	12	T 30		Un	Bic	0.4	595	10.69	C,P,W
2012	88	12-2-65		1951		12	T 30		Ir					
2013	64	5-1-63	F.M. Wear			12	T 30							
2901	68	1-24-65	J.C. Burks			9	N N		Un	Tc	0.0	590	10.84	
3061	68	7-23-65	Borrego Air Ranch, well 1			D 68	N N		Un	Tc	0.0	520	61.00	
3062	68	12-1-63	Ed Fletcher		60.5	D 60	L 3		Dm	Tc	0.5		61.20	

See footnotes at end of table.

State 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. L. L., R. 7 E., -Continued														
113/7E-3002	GS	7-28-65	Edward Sheek	1925	76.1	D 60	L H		Un	Tcc	1.57	555	75.18	
	GS	10-10-63			80.0	D 60	L H		Un	Tcc	2.0		76.76	
	GS	2-10-53								Un	Tcc	2.5		76.17
3003	GS	7-28-65	Borrego Air Ranch, well 3		350	7	T 5		Dm			560	700	P
3001	GS	7-28-65	Borrego Air Ranch, well 2	1925	82.5	D 3	L 3		Dm			555	72	P
3002	GS	12-14-53	Ed. Fletcher		83.2	D 8	T 5		Dm	Tcc	2.0			
	GS	7-29-65	K.E. Knudson						Dm	Tcc	.5	565	76.89	C
	GS	12-17-53	F.L. Stow	1950	146	10			Dm					
3001	GS	7-29-65	Hayden		418.7	12	N N		Un	Bhc	.8	700	192.23	C, L, P, W
	GS	11-10-54		1952					Un					
	D	12-13-53		1952	465	12	T G		Ir					
T. L. L., R. 4 E.														
113/7E-2001	GS	5-10-65	5 Palms Spring						Un			400	(a)	
3001	GS	8-13-65	Saltoria Land Co. Wolf well			21	N N		Ds	Tc	3.5	140		
300	D30	9- -32	San Felipe Oil Co., Dauner 1	1932	847				T					
300	GS	4-13-65	Saltoria Land Co.		3.4	6	N N		Ds	Tc	4.0	140		
3001	GS	5-14-65	Owen C. Terrel	1960	436	6	N N		Un	Bhc	.5	175	53.15	C, L
3002	GS	8-14-63			9.2	10	N N		Ds	Tc	.8	173	dry	
T. L. L., R. 2 E.														
3001	GS	3-17-66	Standard, Southern Land Co.						Ds	Tc	1.0	160		L
3001	D30				34.53	C 3	N N							
3001	GS	4-2-65	Paroli, 307111		10.0	D 180	Si G		Ds	Tcc	1	500	dry	
300	GS	8-13-60			4.0	D 40	Si G		S	Tc	0	5,40	n.d.l	P

See footnotes at end of table.

State 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 (g.p.m.)	Use	Measuring point		Altitude of lsd (feet)	Water level below lsd (feet)	Other data
										Descript-ion	Distance above or below (feet)			
100	OS	7-2-65				D 240	Si Gr		S		3,240	(n)	P	
101	OS	9-2-65	Pen Hayman						S		3,160	(n)	P	
102	OS	9-2-65			2.7	D 36	Si Gr		S	Tc	3,200	nt+3	P	
103	OS	7-1-65	Ben. Hayman						S		3,570	(n)	P	
104	OS	7-1-65	Ben. Hayman						Dm		3,600	(n)	P	
105	OS	9-14-65	Hens Starr, Catfish Spring		5.1	D 402	Si Gr		Ds	Tc	2,350	dry		
106	OS	7-1-65	Hens Starr		17.1	D 56	U N		Un	Tc	2,600	16.55		
107	GC	9-2-65	Mrs. Sawday		3.0	D 72	Si Gr		S	Lsd	2,750	2.5		
108	GC	9-2-65	Hens Starr				T G		Ir	Tap	2,440	72.18		
109	GC	7-6-65	Mrs. Sawday		88.5	b8	L W		S	Tc	2,406	85.51		
110	GC	11-24-53	San Felipe Ranch		72.5	12	L W		S	Tc	1.15	2,440	59.6	
111	GC	9-12-65	Hens Starr		12	D	N N		S		2,720	(a)	C,W	
112	GC	7-6-65	Mrs. Sawday		56.3	12	L W		S	Tc	2,430	38.35		
113	GC	11-24-53	San Felipe Ranch		95.8	12	L W		S	Tc				
114	GC	11-24-53	San Felipe Ranch		90	12			S					
115	GC	9-6-65	Mrs. Sawday	1942		10	S I		Dm	Tcc	.4	2,430		
116	GC	11-24-53	San Felipe Ranch				L W		Dm					
117	GC	7-6-65	Mrs. Sawday			b6	L W		C	Tc	1.3	2,425	27.17	
118	GC	2-28-60				14	L W		Un				22.66	
119	GC	11-24-53	San Felipe Ranch		143.5	12	L W						10.95	
120	GC	11-24-53	San Felipe Ranch		280									
24R1	GC	7-6-65	Mrs. Sawday			8	T 30		Ir	Tc	2.9	2,410	h71.1	7
24L1	GC	7-6-65	Mrs. Sawday		117.6	6	L W		S	Tc	1.4	2,450	49.87	
24E1	GC	11-24-53	San Felipe Ranch		41.6	10	L G		S				630.22	
32E1	GC	9-1-65	Camp Stevens	1950	310	C 6	T 7 1/2		Ds			4,040	dry	
32E2	GC	9-10-65	Camp Stevens	1965	438	C 7	T 2		Dm	Tc	.4	4,380	(h)	P
32E3	GC	9-10-65	Camp Stevens		24.5	D 36	N N		Ds	Tc	.5	4,080	dry	

Continued

State 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
										Onscrip- tion	Distance above lsd (%) (feet)			
T. 12 S., R. 4, E., -Continued														
12S/4E-32P1	GS	9- 9-65	W.L. Rider		25.0	D 45	L W		Un	Tc	0	4,100	14.41	
33K1	GS	9- 9-65	J. H. Starr			D	S1 Gr		Dm	Lsd	0	3,200	(n)	P
33L1	GS	9- 9-65	John M. Collins		2.0	D 12	S1 Gr		Un	Lsd	0	3,360	n2.0	P
33U1	GS	9- 9-65	John M. Collins		(p)	D	S1 Gr		Dm	Lsd	0	3,600	(n)	P
36H1	GS	9- 5-65	Mrs. Sewday		84.9	12	L W		S	Tc	1.2	2,530	46.09	
GS-36X1	GS	11-24-53	San Felipe Ranch		84.3	12	L W		S				50.04	
T. 12 S., R. 5, E.,														
12S/5E-50S1	GS	8-17-65	Angelina Spring		.4	12			S	Lsd	0	2,550	(n)	P
601	GS	8-25-65	Stuart Spring		2.1	D 16	N N		S	Tc	0	2,880	n1.90	P
16P1	GS	8-18-65	Bitter Creek Springs		7.7	D 24	S1 Gr		S	Lsd	0	2,450	6.25	P
28R1	GS	8-19-65			17.5	D 36	N N		Ds	Lsd	0	2,260	dry	
GS-34X2	GS	1- 4-54	San Felipe Ranch		25.0	D 36	N N		Un				20.0	
34C1	GS	8-19-65			116.2	6	L W		S	Tc	1.8	2,955	15.07	
34J1	GS	8-24-65	Jack Nepierskie		74	10	L W		Dm	Tc	.3	2,280	63.11	C,W
	GS	11-24-53	Mrs. Bushore			10	L W		Dm					
34K2	GS	8-19-65			53.5	4	N N		Ds	Tc	1.0	2,770	dry	W
	GS	11-24-53	Mrs. Bushore		88.0	9	N N		Un	Tap	1.9		51.83	
34L1	GS	8-19-65	Hill		105	4½	S 1		Dm	Tcc	1.0	2,260	48.65	P
34L1	GS	8-19-65	Bill Parris		101	C 8	S 1		Dm	Tcc	1.3	2,360	62.25	P
34L1	GS	8- 3-65	Briton		106.4	4½	N N		Un	Tc	1.6	2,320	100.83	
34Y1	GS	8-11-65	Earthquake Valley Ranch		1958	10	L W		Dm	Hpb	1.0	2,290	60.36	
34Z1	GS	8-12-65	Kalak		140	8	S 3/4		Dm			2,310		
34P1	GS	8-19-65	John W. Branch		256	9	L G		Dm	Tpb	.6	2,360	29.60	P
34P1	GS	8-19-65	Dr. Stearn		200	4½	L G		Dm			2,350		
34P1	GS	8-19-65	Lewis Wistler		8	S			Dm	Tcc	1.5	2,900	59.38	

State 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 amp power	Yield (gpm)	Use	Measuring point		Altitude of lsd (feet)	Water level below lsd (feet)	Other data
										Description	Distance above lsd (feet)			
1201	31X1	10-17-40									0	2,310	18.5	
		11-24-53	San Felipe Ranch		18.2	D	48 N		Un	Tc			10.2	
		1-5-10				D	48 L	W	S					
3711	GS	4-24-65	Mrs. Lopez				L	G	Un	Tc	.5	2,320	106.2	
3900	GS	8-24-64	Lyle				L	W	Dm	Tc	1.0	2,290	62.19	
		3-1-55				C	L	W	Un	Tc	.8	2,270	53.47	
4000	GS	1-24-65	Jack Napieriski	1955	86.7	C	8 N	N	Un	Tc	.5	2,320	98.10	
		4-24-65	Odear				6 L	3/4	Dm	Tc	.5	2,320	71.63	
		4-24-65	Carro		82.0		10 L	G	Dm	Tcc	.5	2,290	68	
		11-24-53	A. J. Carro	1949	92		L	G	Dm				65.55	
35P1	GS	4-24-65	Jack Napieriski	1948	166.4		9 N	N	Un	Tc	.6	3,320	137.39	
		11-11-54					8 N	N	Un				137.95	
		2-2-54					8 N	N	Un				138.18	
		11-24-53	Oscar Freighton	1949	159.0		8 N	N	Un				138.08	
100/48-171	DWR	1-10-65	Anza-Borrego State Park	1929			8 T	7 1/2	Ps	Bpb	1.4	1,420	49.33	C,P
		2-20-63			62								52	
		11-11-54											40.39	
		12-14-53			60.3		8 J	1	Dm				610.99	
1702	GS	4-18-65	Anza-Borrego State Park	1953			J	3/4	Ps			1,420		C,L
		4-16-63				10								
		11-11-54					10 J	E	Un	Tc	2.5		54.78	
		12-14-53			263.1		8 S	1 1/2	Ps	Tcc	6.2	1,450	53.15	C,L,P
14A1	GS	8-18-65	Anza-Borrego State Park	1954			10 J	E					60.96	
		7-10-64			125		12						62	
14B1	D	8-18-65	Anza-Borrego State Park, Yaqui well		6.4	D	6480 N	N	S	Lad	0	1,500	5.0	C,P
		3-17-53			4.4	D	36 N	N	S	Tc	.5		3.0	
					5								2.5	

Continued

R. 6 E.

State 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 (ton)	Distance above or below lsd (%) (feet)			
T. 12 S., R. 7 E.														
12S/7E-471	GS	8-14-65	Ed. Fletcher		642	8	N		Un	Tec	2.5	740	277.49	P
	P				652	8							265	
T. 12 S., R. 8 E.														
12S/8E-271	GS	7-25-65	Lew Holmes				T		Ir			180		
	GS	12-15-65					T		Ir					
3R1	GS	3-9-66	John F. Sheran well 1	1939	33,912		N		Ds			160		
	DGO								T					
4H1	GS	7-14-65	San Diego County		48.0	D	N		Ds			161	dry	
4H1	GS	7-14-65	G.L. Mayer		12.5		N		Ds		-1.0	283	dry	
4H4	GS	8-14-65	G.L. Mayer	1965	265	8	S	E	Un	Tec	1.4	288	159.0	L
6A1	GS	7-17-65	M.A. Smith	1958	300	R	S	E	Dm			385		L
6J1	GS	8-17-65	McCarver			7	S	2	Un	Tap	1.0	400	50.0	
6M1	GS	7-16-65	Desert Ironwoods Motel			6	S	E	Dm	Tec	.3	440	168.0	
6M2	GS	8-17-65	Desert Ironwoods Motel			8	N	N	Un	Tec	.2	440	210.0	
6P1	GS	4-17-65	Putter		293.0		S	2	Dm	Tap	1.3	410	104.30	C, L, W
	GS	12-10-65	James Magill	1942	314		N	N	Un					
	GS	7-52												
6P2	GS	8-17-65	McCarver			10	S	1	Dm	Tec	1.9	410	179.0	
	GS	11-17-64	Fred Wade	1994	216.0		N	N	Un	Tec	1.9	410	182.0	
6R1	GS	8-17-65	Robert J. Bovee			R	S	3/4	Dm	Tec	.7	380	17.0	
6R2	GS	7-17-65	Robert J. Bovee				S	1 1/2	Dm	Tec	2.0	300	13.0	
7R1	GS	8-17-65			10.0		N	N	Ds	Tec	1.0	400	dry	
8K1	GS	7-17-65	Arthur Kenck	1957		7	J	10	Dm	Tec	1.4	300	244.1	C
	GS	12-11-63							Dm				240	
9M2	GS	7-17-64	Charles Peterson, Jr.	1965	283	C	S	1 1/2	Dm	Tec	.7	380	240.33	L, P
	D	7-22-65			283								240	
9M1	GS	7-17-64	W.J. Barrett		255.2		N	N	Ds	Tec	1.0	360	dry	
	GS	1-6-63	Stransky		367.0		N	N	Un				275.95	

See footnotes at end of table.

State 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
										Descriptive (from)	Distance below lsd (feet)			
1-21-65		4-24-65	Ray Robison	1963	209	C 6	S 1		Dm	Tc	1.9	164	101.66	
1-22-65		3-1-65	Forrest L. McInnis	1952	174		L 1		Dm			136	128	L
1-1-65		1-1-65	John J. Raig		174	R 6			Dm					
1-2-65		4-24-65	George Cunningham		155.5	10	H N		Un	Tc	1.5	130	150.19	
1-3-65		4-24-65	Ocotillo Wells Mutual		223.4	16	N N		Un	Tc	.6	130	149.18	C
1-4-65		12-11-63	Ocotillo Wells Mutual		120.0	36	L E		Dm	Lsd			115.6	
1-5-65		1-20-65	Ocotillo Wells Mutual	1964	297	C 8	S 7½		Ps			106	136	L
1-6-65		1-1-64	Water Co.		297		8						138	
1-7-65		3-24-65	A.R. Hederman	1959	250	10	L G		Un	Tc	2.0	190	139.58	C, L, P
1-8-65		3-10-65	F.T. Hederman			10							140	
1-9-65		3-25-65	A.W. Toner	1965	53.7	12	N N		Un	Tc	.8	175	53.68	
1-10-65		12-19-63							Ds				dry	
1-11-65		1-21-65	H.C. German		115	D 36	T 1½		Dm	Tc		160	61.12	
1-12-65		3-11-63	Wooty's Store			36			Dm				55.0	
1-13-65		3-1-65							Dm					C
1-14-65		4-24-65	Mrs. J. Lewis		142	9	L 1½		Dm			165		
1-15-65		3-1-63	Charles Lewis				L 1½		Dm					
1-16-65		3-25-65	F.E. Rogers		200		L 1		Dm	Tcc	.7	170	140.06	
1-17-65		4-25-65	Milton Clark			C 8	N N		Un	Tc	4.7	160	50.08	
1-18-65		4-24-65	F.C. Kemp	1958	246		S 3		Dm	Tcc	1.5	165	123.13	
1-19-65		1-20-65			246								110	
1-20-65		1-1-65											125	
1-21-65		4-24-65	H.C. Kemp	1950		12	T 30		Dm	Hpb	1.5	156	119.88	C, L, P
1-22-65		12-11-63	Jack Sundquist	1950	222	12	T 15		Dm				117	
1-23-65		9-12-60			222	12								P
1-24-65		7-24-65	Lola LeBar	1952	232	12	T 30		Dm			155		
1-25-65		12-10-63				12	T 20		Dm				116	
1-26-65		3-16-60												

1-27-65, 1-28-65, 1-29-65, 1-30-65, 1-31-65, 2-1-65, 2-2-65, 2-3-65, 2-4-65, 2-5-65, 2-6-65, 2-7-65, 2-8-65, 2-9-65, 2-10-65, 2-11-65, 2-12-65, 2-13-65, 2-14-65, 2-15-65, 2-16-65, 2-17-65, 2-18-65, 2-19-65, 2-20-65, 2-21-65, 2-22-65, 2-23-65, 2-24-65, 2-25-65, 2-26-65, 2-27-65, 2-28-65, 2-29-65, 2-30-65, 2-31-65, 3-1-65, 3-2-65, 3-3-65, 3-4-65, 3-5-65, 3-6-65, 3-7-65, 3-8-65, 3-9-65, 3-10-65, 3-11-65, 3-12-65, 3-13-65, 3-14-65, 3-15-65, 3-16-65, 3-17-65, 3-18-65, 3-19-65, 3-20-65, 3-21-65, 3-22-65, 3-23-65, 3-24-65, 3-25-65, 3-26-65, 3-27-65, 3-28-65, 3-29-65, 3-30-65, 3-31-65, 4-1-65, 4-2-65, 4-3-65, 4-4-65, 4-5-65, 4-6-65, 4-7-65, 4-8-65, 4-9-65, 4-10-65, 4-11-65, 4-12-65, 4-13-65, 4-14-65, 4-15-65, 4-16-65, 4-17-65, 4-18-65, 4-19-65, 4-20-65, 4-21-65, 4-22-65, 4-23-65, 4-24-65, 4-25-65, 4-26-65, 4-27-65, 4-28-65, 4-29-65, 4-30-65, 4-31-65, 5-1-65, 5-2-65, 5-3-65, 5-4-65, 5-5-65, 5-6-65, 5-7-65, 5-8-65, 5-9-65, 5-10-65, 5-11-65, 5-12-65, 5-13-65, 5-14-65, 5-15-65, 5-16-65, 5-17-65, 5-18-65, 5-19-65, 5-20-65, 5-21-65, 5-22-65, 5-23-65, 5-24-65, 5-25-65, 5-26-65, 5-27-65, 5-28-65, 5-29-65, 5-30-65, 5-31-65, 6-1-65, 6-2-65, 6-3-65, 6-4-65, 6-5-65, 6-6-65, 6-7-65, 6-8-65, 6-9-65, 6-10-65, 6-11-65, 6-12-65, 6-13-65, 6-14-65, 6-15-65, 6-16-65, 6-17-65, 6-18-65, 6-19-65, 6-20-65, 6-21-65, 6-22-65, 6-23-65, 6-24-65, 6-25-65, 6-26-65, 6-27-65, 6-28-65, 6-29-65, 6-30-65, 6-31-65, 7-1-65, 7-2-65, 7-3-65, 7-4-65, 7-5-65, 7-6-65, 7-7-65, 7-8-65, 7-9-65, 7-10-65, 7-11-65, 7-12-65, 7-13-65, 7-14-65, 7-15-65, 7-16-65, 7-17-65, 7-18-65, 7-19-65, 7-20-65, 7-21-65, 7-22-65, 7-23-65, 7-24-65, 7-25-65, 7-26-65, 7-27-65, 7-28-65, 7-29-65, 7-30-65, 7-31-65, 8-1-65, 8-2-65, 8-3-65, 8-4-65, 8-5-65, 8-6-65, 8-7-65, 8-8-65, 8-9-65, 8-10-65, 8-11-65, 8-12-65, 8-13-65, 8-14-65, 8-15-65, 8-16-65, 8-17-65, 8-18-65, 8-19-65, 8-20-65, 8-21-65, 8-22-65, 8-23-65, 8-24-65, 8-25-65, 8-26-65, 8-27-65, 8-28-65, 8-29-65, 8-30-65, 8-31-65, 9-1-65, 9-2-65, 9-3-65, 9-4-65, 9-5-65, 9-6-65, 9-7-65, 9-8-65, 9-9-65, 9-10-65, 9-11-65, 9-12-65, 9-13-65, 9-14-65, 9-15-65, 9-16-65, 9-17-65, 9-18-65, 9-19-65, 9-20-65, 9-21-65, 9-22-65, 9-23-65, 9-24-65, 9-25-65, 9-26-65, 9-27-65, 9-28-65, 9-29-65, 9-30-65, 9-31-65, 10-1-65, 10-2-65, 10-3-65, 10-4-65, 10-5-65, 10-6-65, 10-7-65, 10-8-65, 10-9-65, 10-10-65, 10-11-65, 10-12-65, 10-13-65, 10-14-65, 10-15-65, 10-16-65, 10-17-65, 10-18-65, 10-19-65, 10-20-65, 10-21-65, 10-22-65, 10-23-65, 10-24-65, 10-25-65, 10-26-65, 10-27-65, 10-28-65, 10-29-65, 10-30-65, 10-31-65, 11-1-65, 11-2-65, 11-3-65, 11-4-65, 11-5-65, 11-6-65, 11-7-65, 11-8-65, 11-9-65, 11-10-65, 11-11-65, 11-12-65, 11-13-65, 11-14-65, 11-15-65, 11-16-65, 11-17-65, 11-18-65, 11-19-65, 11-20-65, 11-21-65, 11-22-65, 11-23-65, 11-24-65, 11-25-65, 11-26-65, 11-27-65, 11-28-65, 11-29-65, 11-30-65, 11-31-65, 12-1-65, 12-2-65, 12-3-65, 12-4-65, 12-5-65, 12-6-65, 12-7-65, 12-8-65, 12-9-65, 12-10-65, 12-11-65, 12-12-65, 12-13-65, 12-14-65, 12-15-65, 12-16-65, 12-17-65, 12-18-65, 12-19-65, 12-20-65, 12-21-65, 12-22-65, 12-23-65, 12-24-65, 12-25-65, 12-26-65, 12-27-65, 12-28-65, 12-29-65, 12-30-65, 12-31-65, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 2693, 2694, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 2702, 2703, 2704, 2705, 2706, 2707, 2708, 2709, 2710, 2711, 2712, 2713, 2714, 2715, 2716, 2717, 2718, 2719, 2720, 2721, 2722, 2723, 2724, 2725, 2726, 2727, 2728, 2729, 2730, 2731, 2732, 2733, 2734, 2735, 2736, 2737, 2738, 2739, 2740, 2741, 2742, 2743, 2744, 2745, 2746, 2747, 2748, 2749, 2750, 2751, 2752, 2753, 2754, 2755, 2756, 2757, 2758, 2759, 2760, 2761, 2762, 2763, 2764, 2765, 2766, 2767, 2768, 2769, 2770, 2771, 2772, 2773, 2774, 2775, 2776, 2777, 2778, 2779, 2780, 2781, 2782, 2783, 2784, 2785, 2786, 2787, 2788, 2789, 2790, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2800, 2801, 2802, 2803, 2804, 2805, 2806, 2807, 2808, 2809, 2810, 2811, 2812, 2813, 2814, 2815, 2816, 2817, 2818, 2819, 2820, 2821, 2822, 2823, 2824, 2825, 2826, 2827, 2828, 2829, 2830, 2831, 2832, 2833, 2834, 2835, 2836, 2837, 2838, 2839, 2840, 2841, 2842, 2843, 2844, 2845, 2846, 2847, 2848, 2849, 2850, 2851, 2852, 2853, 2854, 2855, 2856, 2857, 2858, 2859, 2860, 2861, 2862, 2863, 2864, 2865, 2866, 2867, 2868, 2869, 2870, 2871, 2872, 2873, 2874, 2875, 2876, 2877, 2878, 2879, 2880, 2881, 2882, 2883, 2884, 2885, 2886, 2887, 2888, 2889, 2890, 2891, 2892, 2893, 2894, 2895, 2896, 2897, 2898, 2899, 2900, 2901, 2902,

T. 12 S., R. 8 E.--Continued

State 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
										Descrip- tion	Distance below lsd (feet)			
12S 8E-10N3	GS	8-24-65	Mike Sever	1964	243	8	T 3		Dm	Tc	1.0	155	1117	
10Q1	GS	8-24-65	Walter H. Mortick		104	8	L 1		Dm			155	103	
10Q2	GS	8-24-65	Walter H. Morton	1963	218	8	S 1 1/2		Dm			155	101.5	P
12R1	GS	8-24-65			30.0	D	48 N		Ds	Tc	0	82	dry	
W-2	W-2	1-24-49	Conc. Well		25.5	42								
14C1	GS	8-19-65	Joel M. Cornish			8	S E		Dm	Tc	.7	150	114.80	
15E1	GS	8-11-65	J.S. Taylor		140	10	J E		Dm	Tcc	.2	160	133.49	C,L
GS	GS	12-15-53	Scott		140	D	J E		Dm				131.8	
W-4	W-4	1-24-49	Scottys House		140								138.0	
15E2	GS	8-19-65	Joel M. Cornish			10	L 1		Dm	Lsd	0	155	141.97	
15K1	GS	8-18-65	William Ivy	1961	301	C 10	T 20		Dm	Hpb	.4	150	120.11	C,P
GS	GS	8-24-65	William Ivy				T E							
15M1	GS	8-11-65	George Summerville		297	8	S E		Dm	Tc	.4	155	142.11	
GS	GS	12-15-53	J.W. Moore	1952	232	8	T 10		Ir					
15N1	GS	8-11-65	Davis and Gunderson	1965	200	8	S 3		Un	Tc	2.0	135	111.5	L
D	D	5-12-65			200	8							120	
17Z1	D	1925	Mrs. Bertha Chamberlain	1925	150	C 8							125	L
16R1	GS	8-28-65	Otis Johnson		193				Un			140		C
17P1	GS	8-11-65				6	L N		Un	Tc	1.0	300	219.55	
GS-17X1	GS-17X1	1-1-54			253.5	8	N N		Un				202.40	
17Z1	D	1925	E.L. Reich	1925	202	C 7						209	1.0	L
22E1	GS	8-15-65	Clarence E. Pratt				T 40		Dm	Hpb	1.5	110	109.36	C,P,W
GS	GS	8-2-63	J.M. Cornish				T E							
GS	GS	12-15-53	A.F. Dimes	1929	226	16	T 40		Dm					
W-1	W-1	1-24-49	Beemans Ranch											
22K1	GS	8-15-65	Joel M. Cornish	1958		16	T 125		Un	Bpb	.4	95	89.14	C,P
GS	GS	8-12-63	J.M. Cornish				T 125		Ir					
22R1	GS	8-11-65			56.0	D	N N N		Ds					
GS	GS	12-11-53				48	N N		Ds	Tc	0		dry	

See footnotes at end of table.

State 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	Water above lsd (feet)			
I. 14 P. 1. --Continued														
127/95-271	GS	4-14-67 7-2-63	Joel M. Cornish J.M. Cornish			16	T 150 T 150		Un Ir		140			C,P
2421	GS	4-17-65 12-11-53	Joel M. Cornish James Brooks		181.6 220	12	N N T 50		Un Ir	Tc	1.4	86	99.86 85.6	C,P
2501	GS	4-18-67				N	N N		Ds	Lsd		40	dry	
	TC	12-11-53				10	N N		Ds					
	W-107	9-21-49				D	N N							
2521	W	10-65	T.A. Haws	1926	245	8			Un	Tcc	.5	60	62.25	L,P
2601	W-9 D	1-24-49 1925	John H. Naeve	1925	102.5 120	8 C			Un	Tc	.7	70	73.27	C,L,P
2681	GS	4-18-65	George Vallece		63.5	D 60	S E		Un	Tcc	.5	60	62.25	
27A1	GS	8-19-65			82.3	4	N N		Un	Tc	.7	70	73.27	
27B1	GS	4-18-63	Joel M. Cornish	1947	214	12	T 15		Un	Hpt	1.8	80	71.0	P
	GS	12-11-53	Borrego Wells Mutual Water Co.						Un					
2701	GS	4-19-67			153.0	12	N N		Un	Tc	1.0	114	117.20	
	GS	12-11-53			156.0	12	N N		Un				113.6	
27E1	GS	1-19-65	Little Borrego (Site)		35.9	8	N N		Ds	Tc	1.1	100	dry	C,L,P
	GS	12-15-53			99.9	8	N N		Un				86.69	
	W-4	1-24-49	Borrego Hotel		103	8							86.8	
	D	1926	Borrego Town Site	1926	122	C							81	
I. 14 P. 2. R. 3. E.														
127/95-22A1	GC	4-14-65	T.M. Jacobs		412	6	T 10		Un	Tc	.7	-10	r105.30	L
	GS	7-29-63	T.M. Jacobs	1953		R 6	T 10		Ir					
	GS	12-17-53	Paul B. Zilk	1953		6	T E		Ir					
22A2	GS	1-14-65	T.M. Jacobs	1961	667	14	T 75		Ir			-10	(E)	P,W
	GC	1-29-63	T.M. Jacobs	1961	667	R	T 75		Ir					
	GS	3-14-63		1961	667	R 14	T 75		Ir	Tap	3.0		g101.7	
2301	GS	5-12-65	T.M. Jacobs		445	14	N N		Un	Tc	.9	-15	r110.05	C,P,W
	GS	12-17-53	Beukle Bros.			12	T 75		Ir					
2302	GS	9-14-65	T.M. Jacobs	1965	656	R 14	T 75		Ir	Tap	.7	-15	(E)	P

See footnotes at end of table.

State 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
										Distance above or below lsd (feet)	Observation			
T. 12 S., R. 0 E., ---Continued														
12S/9E-27B1	GS W-5	8-16-65 1-2-71	Berkeley			R 16	N N		Un	Tc 1.5	-20	76.22 74.6	C	
29A1	GS W-5	8-25-65 1-1-49	Baileys well		18.0 29.0	D 48 42	N N		Ds	Tc 0	0	dry dry		
30H1	GS W-13	1-20-68 1-24-49			59.1	8	N N		Un	Tc 1.0	38	45.69 50.6	C	
34Z1	GS DA	8-2-65 1914	Grace Ambrook		500				Ds		-20			
T. 13 S., R. 4 E.														
13S/4E-2B1	GS	9-9-55	Mashay		(p)	D	Si Gr		Dm		2,600	(n)	P	
2C1	GS	9-9-65	Mashay		(p)	D	Si Gr		Dm		2,800	(n)	P	
2F1	GS	9-7-65			3.2	D 36	Si Gr		Dm	Tc 1.3	2,800	n1.99	P	
4B1	GS	9-10-65	Golconda Utilities		200	C 6	S 3		Dm	Tcc .5	4,240	49.81	P	
5B1	GS	9-10-65 1-6-61	A.R. Bickensrud	1961	255	C	N N		Dm		4,100	(n)	P	
5B2	GS	9-10-65	Staude			D 72	J 1		Dm		4,100			
5B3	GS	9-11-65	San Diego County, Division of Roads	1942	32.0	D 36	J 10		Un	Tap 0	4,100	27.18		
5B4	GS	9-11-65	H.A. Wellenberg	1952	52	D 36	J 2		Dm	Tcc .5	4,100	15.17		
5B5	GS	9-10-65	E.F. Hayton				J		Un	Tcc 0	4,100	19.80		
901	GS	9-10-65	Golconda Utilities		483.0		N N		Un	Tc 1.0	4,350	431.09		
10ZS1	GS	9-10-65	J. Herron			D			In		3,400	(n)	P	
14E1	GS	9-8-65			(p)	D	N N		Un		3,440	(n)	P	
14ES1	GS	9-1-65	Bruce Harrington				Si Gr		Dm		3,440	(n)	P	
14Q1	GS	9-1-65	Herman Johnson			D 180	L G		Dm	Tcc 0	3,440	46.67		
14Q2	GS	9-1-65	Bruce Harrington Cold Beef Mine		118	D 240	L G		Un	Lsd 0	3,400	85	P	

See footnotes at end of table.

State 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 (feet)			
T. 13 S., R. 4 E., cont'd														
15045-4R1	GS	6-7-65					Si Gr		S			5,450	(n)	
15045-2B:	SS	11-24-65			151.0	10	L N		Un	Tcc	0	5,360	149.94	
	GS-3X1	11-2-63	Los Arenas Ranch		175	D	L N		Un				157.64	
	GS	8-2-65	Jark Napiewski		224.0	6	T G		Un	Tc	0	5,445	151.50	
	GS	5-25-65			6.0	D	N N		Ds	Tc	0	5,700	dry	
	GS	4-6-60			6.0	D	H N		Ds	Tc	0	5,770	dry	
	GS	5-2-65			3.5	D	N N		Ds	Tcc	1.0	5,700	dry	
	GS	7-25-65			2.5	D	N N		Ds	Tc	0	5,730	dry	
	GS	9-4-64			5.0	D	N N		Ds	Tc	0	5,720	dry	
	GS	3-5-60			3.0	D		Si Gr	Ds	Tcc	0	5,600	dry	
	GS	9-5-64	D.J. Mastro	1962	150	8	L W		Dm	Tcc	1.0	5,600	878.00	
	GS	9-7-64	J. Richey	1960	115	48	L	3/4	Dm	Tc	0	5,940		
	GS	7-5-67	W.H. Wood	1962	112	40	L W		Dm	Tcc	0	5,940		
	GS	9-5-65	Guy Unguhart	1941	23.5	D	L N		Un	Tc	1.7	5,300	12.45	
	GS	9-4-65	Anza-Borrego State Park	1930	100		N N		Ds			2,630	dry	
	GS	8-20-65	Daily Corp.	1964	445	13	N N		Un	Tc	1.0	5,310	281.05	
	GS	8-26-65	Daily Bros. (Pepper Tree Spring)						S			2,800	(n)	
	GS	8-26-65	Daily Bros.	1936	7.7	120	N N		Ds	Tcc	.5	2,560	dry	
	GS	8-27-65	Charbonneau	1955	145	8	L W		Dm	Tc	1.0	2,070	137.8	
	GS-35X1	3-7-55			150	C	N N		Un				114.45	
T. 13 S., R. 6 E.														
135/6E-2FS1	DWR	1-59	Anza-Borrego State Park, Blue Spring						S				(n)	C

State 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 (feet)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 13 S., R. 7 E.													
13S/7E-11FS1	GS	8-15-55	Anza-Borrego State Park, Dave McCain Spring	(P)					Ds		2,800	dry	
T. 13 S., R. 9 E.													
13S/9E-18Z1	N-262	1909	Hanna well								230		
24Z1	W-13	1-10-49			40.3	D 36	N N		Un	Tc	1.2	44.8	C
25Q1	GS	8-16-65										31.34	
T. 14 S., R. 5 E.													
14S/5E-1FS1	GS	8-29-55	Spencer	1957	92	6 J	G		S		1,900	(n)	P
	GS	1-1-50	T. L. Works						Dm				
1N1	GS	8-28-65	Pierson		86	6 J	G		Dm	Tc	2,030	71.48	
1N2	GS	7-29-55	Baumbaugh	1957	86	6 J	G		Dm	Bpb	2,000	67.96	L, P
	D	6-6-57	William Baumbaugh		86	C 6							
2D1	GS	8-27-55	J. Kinser	1956	169	C 8	N N		Dm		2,110	127	
	GS-34X1	3-19-56	Lucy Joslin						Un				
2D2	GS	8-27-55	Miller		83.5	10 N	N		Ds	Tc	2,080	dry	
	GS-3X1	1-5-54	Ritzerson		98.5	10 L	N N		Un			96.75	
2E1	GS	8-27-55	Miller		97.7	10 L	N N		Ds	Tc	2,080	dry	
	GS-3X2	1-5-54			200	12 L	N N		Un			91.00	
2G1	GS	7-27-65	Mrs. Mayer		bl72.3	b7 N	N N		Un	Tc	1,662,060	86.27	W
	GS-2X1	11-25-73	Strahlmann		104	10 T	G		Dm				
2H1	GS	8-27-55	Mrs. Mayer		128				Dm		5,055	45	
	GS-2X2	3-7-55	E.F. Brown	1955	130	C 0	J G		Dm	Tc	5		
2H2	GS	1-28-65	F.A. Einer, well 4	1965	44.5	12 N	N N		Ds	Tc	2,130	dry	
2H3	GS	8-27-65	Mrs. Mayer		64.0	D 48	N N		Ds	Tc	2,055	dry	
2J1	GS	8-28-55	F.A. Einer, well 3	1964	153	11 T	G		Ir	Tc	1.5	48.4	
	GS	1-28-65										513.19	
2J2	GS	8-28-65	F.A. Einer, well 2	1962	86	10 T	G		Ps	Tc	2,000	67.4	C, P

See footnotes at end of table.

State 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 (ton)	Distance above or below (feet)			
14-1-65-TR1	14-1-65-TR1	9-2-65 9-11-65	F.A. Einer, well 1	1965	1261	10 T 25	Ir		Tap	2,340	2,340	6110.69 592.77	C, L	
14-1-65-TR2	14-1-65-TR2	9-2-65	F.A. Einer		66.5	11 N N	Ds		Tc	2,340		dry		
14-1-65-TR3	14-1-65-TR3	9-2-65 1910			34.0 126	72 N N	Ds		Lsd	2,110		dry dry		
14-1-65-TR4	14-1-65-TR4	9-2-65	Taylor Spring		(p)		S		S	2,360		(n)	P	
14-1-65-TR5	14-1-65-TR5	9-2-65	Mrs. C. Spencer Campbell Ranch				Dm Ir		Dm Ir	2,000		(n)	C, P	
14-1-65-TR6	14-1-65-TR6	9-2-65	Mr. C. Spencer	1961	230	12 T 30	Ir		Tc	1,720		140.81	P	
14-1-65-TR7	14-1-65-TR7	9-3-65	Mrs. C. Spencer		2.1	24 S1 Gr	S		Tc	3,360		n.48	P	
14-1-65-TR8	14-1-65-TR8	9-3-65	Mrs. C. Spencer		2.3	18 S1 Gr	S		Tc	3,365		n1.34	P	
14-1-65-TR9	14-1-65-TR9	9-3-65	Mr. C. Spencer		2.1	24 S1 Gr	S		Tc	3,368		n1.09	P	
14-1-65-TR10	14-1-65-TR10	9-3-65	Mrs. C. Spencer		1.9	24 S1 Gr	S		Tc	2,040		n.15	P	
14-1-65-TR11	14-1-65-TR11	9-1-65	Tate			6 L H	Un		Tc	1,645		55.24		
14-1-65-TR12	14-1-65-TR12	9-1-65	Tate			8 S	Dm			1,640				
14-1-65-TR13	14-1-65-TR13	9-1-65	C. Neuman				Un			1,640				
14-1-65-TR14	14-1-65-TR14	9-1-65	A.E. Richards		7.5	8 N N	Ds		Tc	1.5	1,680	dry		
14-1-65-TR15	14-1-65-TR15	9-1-65	W.P. Zornes	1962	100	4 1/2 S 1	Dm		Tap	1.9	1,640	58.64		
14-1-65-TR16	14-1-65-TR16	9-1-65	W.P. Zornes	1962	70.0	12 N N	Ds		Lsd	0	1,655	dry		
14-1-65-TR17	14-1-65-TR17	9-1-65 3-11-67	A.E. Richards	1957	102 104	36 S 36 N N	Dm Un		Tc		1,660	85 82.42	L	
14-1-65-TR18	14-1-65-TR18	9-1-65 11-24-68	A.E. Richards	1960	121	6 N N 7 N N	Un Un				1,660	85 73.6	L	
14-1-65-TR19	14-1-65-TR19	9-1-65 3-14-57	Joe Lewis Tracy Dale		86	8 J E 8 J 1	Dm Dm		Tcc	1.5	1,670	85.77 74		

I. L. R. R. ---Continued

I. L. R. R. P. E.

T. 14 S., R. 6 E.--Continued

State 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
										Distance above or below lsd (feet)	Description			
14S/6E-3F1	GS	1-31-65	Al Demeusy		98	C	6 N N		Un	Tc	1.3	1,640	61.84	
8F1	3	9-1-67	Bishop	1964	120	C	6 S E		Dm	Tcc	.4	1,645	61.85	
8F3	GS	9-1-65			109.0	C	8 N N		Un	Tc	1.0	1,645	61.68	W
	GS	1-16-65			101		8 N N		Un					
8G1	GS	1-31-65	George Maneval	1954	126	9 S 1	9 S 1		Dm	Tap	1.1	1,640	61.99	C,L,P
8G2	GS	8-31-64	Al Demeusy		64.0	3 1/2 L N	3 1/2 L N		Un	Tpb	2.0	1,540	57.97	C
8G3	GS	1-14-65	George Maneval		68				Dm					
8G3	GS	8-31-65	Al Demeusy	1963	118	R	8 J 1		Dm	Tap	1.4	1,640	61.45	P
8H4	GS	2-1-65	Hazard				L G		Dm			1,540		
8H5	GS	9-1-65	McCane		34.5	12 N H	12 N H		Un	Tc	1.0	1,580	59.1	
8H5	GS	9-4-65	McCane		186	8 L N	8 L N		Un	Tc	.7	1,575	34.61	
8J3	GS	9-4-65	McCane		11.0	4 1/2 L N	4 1/2 L N		Ds	Tc	1.4	1,580		C
8J3	GS-9X1	1-5-64	McCane		6.6	D	14 L H		Dm	Hpb	1.7		1.3	
	GS	1-5-64	Campbell Ranch				L W		S					
10B1	GS	8-3-65	San Diego County Park		6.6	D	15 H N		Ds	Tc	1.4	1,580		C
10B1	GS-3X1	11-25-63	Vallejo State Station			D	14 L H		Dm					
10B2	GS	8-30-65	San Diego County Park	1954	73	8 S E	8 S E		Dm	Tcc	1.9	1,580	36.5	C
10B3	GS	8-4-65	San Diego County Park	1955	40		N N		Un			1,520		
10B1	GS	9-1-65	Mrs. G. Spencer	1962	114	12 T 15	12 T 15		Ir	Tc	1.0	1,540	60.24	P
	GS	9-3-65											62.91	
10B2	GS	9-4-65	Mrs. G. Spencer	1965	22.0	12 T 15	12 T 15		Ir	Hpb	1.0	1,535	61.25	S
10B1	GS	9-3-65			5.4	12 L W	12 L W		Ds	Tc	1.3	1,580		C
	HE	3-3-65			68		L W			Lsd			dry	
10K1	GS	1-3-65	Mrs. G. Spencer		4	1 1/2 L W	1 1/2 L W		Dm			1,561		
10K1	GS-10X1	1-5-64	Campbell Ranch				L W		S					
10B1	GS	7-2-65	Mrs. G. Spencer		91.5	12 L W	12 L W		S	Tc	.3	1,680	37.9	S,W
10B1	GS-6X1	1-5-64	Campbell Ranch		91.5	12 N H	12 N H		Un					

See footnotes at end of table.

State 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 or below lsd (feet)			
T. 14 S., R. 6 E.--Continued														
14S 6E-1731	GS	9- 2-65	Mrs. C. Spencer		65.0	D 42	L W		Ds	Tc	1.5	1,660	dry	
	GS-17X1	1- 5-54	Campbell Ranch		74	8 L W			S	Bhc	1.5		70.95	
35NS1	GS	9- 6-65	U.S. Government						Ds			2,640	dry	
T. 14 S., R. 7 E.														
14S 7E-16N1	GS	9- 4-65	Anza-Borrego State Park	1955	210	C 8	L N N		Un	Tc	2.0	1,132	179.78	
	GS	3-19-56	W.E. Martin						Un				176.78	
18P1	GS	9- 5-65	San Diego County Park, Burro Spring		5.8	24 S1	Gr		Dm	Tc	-4.0	1,360	n5.62	C,P
1831	GS	9- 5-65	San Diego County Park	1965	90	8 S1	Gr		Dm	Tc	1.5	1,280	n+1.38	P
18MS1	GS	9- 5-65	San Diego County Park						Un			1,400	(n)	P
18P1	GS	9- 5-65	San Diego County Park		1.5	D 18	S1 Gr		R			1,400	(n)	C,P
18P2	GS	9- 5-65	San Diego County Park		3.9	D 42	S1 Gr		Dm	Tcc	-1.0	1,400	n2.70	C,P
18P3	GS	9- 5-65	San Diego County Park, Owen Spring	1965	4.5	D 48	S1 Gr		Dm	Tcc	-2.0	1,400	n3.7	P
18P4	GS	9- 5-65	San Diego County Park		2.7	D 72	S1 Gr		Dm	Tcc	0	1,400	n1.76	C,P
18P5	GS	9- 5-65	San Diego County Park, Hot Spring		3.1	D 72	S1 Gr		R	Tc	0	1,400	n1.70	C,P
1821	GS	9- 5-65	San Diego County Park		7.7	D 48	S1 Gr		Un	Tc	-4.0	1,400	n6.36	C,P
182S1	GS	9- 5-65	San Diego County Park						Un			1,375	(n)	C,P
19AS1	GS	9- 5-65	Anza-Borrego State Park						Un			1,360	(n)	P
25NS1	GS	4- 4-66	Anza-Borrego State Park, Palm Spring	1858					S			880	(n)	P
	M-263	1909	Palm Spring											
34B1	GS	5- 5-66	L. Worden	1958	665	C 8	N N		Un	Tc	2.0	985	385.12	
34G1	GS	5- 5-66	Dr. C.W. Todd	1963	189.4	C 5	N N		Ds	Tc	0	1,020	dry	L
34R1	GS	5- 5-66	T.N. Hays		0		N N N		Ds			1,090		
	0				230								dry	

See footnotes at end of table.

State 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 (elevation)	Altitude of lsd (feet)	Water level below lsd (feet)	Other data
T. 14 S., R. 7 E. ---Continued													
14S/7E-34R2	GS 0	5- 5-66	T.N. Hays		230	11	N N N	N	Ds		1,090	dry	
34R3	GS 0	5- 5-66	T.N. Hays		230	N	N N N	N	Ds		1,080	dry	
34R4	GS 0	5- 5-66	T.N. Hays		180.5 320	8	N N N	N	Ds	Tc	2.1	1,075 dry dry	
T. 15 S., R. 6 E.													
15S/6E-10NS1	GS	9- 6-65	U.S. Government						Ds		2,880	dry	
T. 15 S., R. 7 E.													
15S/7E-4NS1	GS	9- 6-65	Federal Water Reserve, 107						Dm		1,320	(n)	P
4M1	GS 0 0	9- 6-65 1951 1931	R.A. Crawford	bl950	24.2	D 78	C 10		Dm	Bhc	.3	1,500	14.52 5 (n)
12D1	GS	4- 6-66	Anza-Borrego State Park, 1912 Well of the Eight Echoes	1931	116.5	C 14	N N N		Ds	Tc	2.5	795	dry dry
12D2	GS	4- 6-66	Anza-Borrego State Park 1912		202.0	C 12	N N N		Ds	Tc	2.0	895	dry
13MS1	GS	4- 6-66	Anza-Borrego State Park		.8		N N N		Un	Lsd	0	800	.60 P
26B1	GS	4- 6-66	Anza-Borrego State Park, Bow Willow Ranger Station			D 60	C 1		Dm	Tf	2.65	955	3.33 C
T. 15 S., R. 3 E.													
15S/3E-4K1	GS	4- 5-66	Anza-Borrego State Park 1966 Palmitas Spring		3.0	D 12	N N N		Un	Lsd	0	680	1.7
4K2	GS	4- 5-66	Anza-Borrego State Park 1966		1.8	D 12	N N N		Un	Lsd	0	640	1.7
8F1	GS	4- 5-66	Anza-Borrego State Park		18.7	C 6	N N N		Ds	Tc	0	720	dry

State 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 Distance above or below (feet)	Altitude of (feet)	Water level below (feet)	Other data
T. 15 S., R. 3 E., ---Continued													
158/HE-101	GS D	4-4-66 2-51	Mrs. Elizabeth Phillip* Addington	1954	300	R 10	N		Un	Tc 2.0	670	118.29 16	P
1911	GS	5-4-66	W.E. Martin	1961	30	8	N		Ds	Bhc .5	725	dry	
2041	GS ET	4-6-66 11-11-54	Addington		3.0 24.2	D N D 4.0	N N		Ds	Tc 0	670	dry	
2001	GS GS D	4-6-66 11-11-54 3--54	Addington	1954	187	R 12	N N		Un Un	Tc 1.8	645	88.7 67	
T. 16 S., R. 9 E.													
158/OE-111	GS DA	5-26-66 1911	Anza-Borrego State Park J.M. Holloway, Berrett Drill hole	1914	600		N		Ds		800	40	
T. 16 S., R. 7 E.													
165/TE-4ES1	GS	5-11-66	U.S. Bureau Land Management (BLM)			D	Gr		S		5,700	(n)	
165/TE-4ES2	GS	5-24-66	BLM			H	N		S		3,900	(n)	
165/TE-4ES3	GS	5-24-66	BLM			N	N		S		4,200	(n)	
165/TE-4ES4	GS	5-24-66	BLM			D	N		Un		2,150	dry	
165/TE-4ES5	GS	5-27-66	BLM			N	N		S		4,000	(n)	
<p>a. Small seep, very little flow.</p> <p>b. Well redug.</p> <p>c. Casing extended to surface in hand-dug well.</p> <p>d. Water level deeper than 29 ft.</p> <p>e. Measured by air-line gauge.</p> <p>f. Obstruction above water table.</p> <p>g. Well pumped recently.</p> <p>h. Tepe measured.</p> <p>i. No flow.</p> <p>j. Well reported to be drilled to bedrock.</p> <p>k. Questionable measurement.</p>													

APPENDIX B

TABLE 2. RECORDS OF WATER LEVEL IN WELLS

Table 2.--Records of water level in wells

Table 2 includes all records of water-level measurements made in wells for which five or more measurements were made; if fewer than five measurements were made, the records are given in table 1.

Altitudes are for the land-surface datum at the well and are in feet above mean sea level. Land-surface datum is a plane of reference which approximates land surface. Altitudes are given in whole feet and were interpolated from topographic maps.

Depths of wells, given in whole feet, were reported by owners or taken from drillers' logs; depths given in feet and tenths of a foot were measured from land-surface datum by the Geological Survey.

Water level is measured depth to water, in feet, below or above (+) land-surface datum. That is, the altitudes of the measuring points, as reported above or below land-surface datum, have been subtracted from or added to the measured water level. If more than one measuring point has been used, they were checked in the field and related to each other. Thus, all measurements are referred to a common datum. The latest measuring points used by the Geological Survey are listed in table 1. Special conditions indicated by letter: a, well being pumped; b, well pumped recently; c, nearby well being pumped; f, dry; p, well destroyed; q, tape smeared; r, measured by California Department of Water Resources; s, reported by owner, driller, or pump company; t, well flowing.

Date	Water level	Date	Water level	Date	Water level
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9S/6E-36A1. Depth 334 ft in September 1953 and 207.0 on July 22, 1965. Altitude about 570 ft. All measurements by U.S. Geological Survey.

Nov. 18, 1953	17.17	Nov. 5, 1958	16.93	Mar. 20, 1964	16.67
Jan. 6, 1954	16.79	Feb. 27, 1960	16.55	July 22, 1965	16.83
Feb. 9	16.79	Mar. 15, 1962	16.55	Mar. 3, 1966	16.83
Mar. 15, 1957	16.80				

10S/6E-8B1. Depth reported to be 690 ft in 1945. Altitude about 760 ft. All measurements by U.S. Geological Survey.

Nov. 28, 1955	257.83	Feb. 2, 1960	264.08	Oct. 31, 1963	283.91
Nov. 16, 1956	255.50	Nov. 22	266.46	Mar. 20, 1964	277.83
Nov. 16	a299.6	Mar. 8, 1961	267.26	Nov. 12	276.68
Nov. 26, 1957	257.84	Oct. 26	270.43	Mar. 19, 1965	275.03
Mar. 15, 1958	257.94	Mar. 15, 1962	a286.99	July 23	278.10
Nov. 5	278.27	Nov. 2	283.88	Oct. 26	278.17
Nov. 24, 1959	265.54	Mar. 15, 1963	272.92	Mar. 3, 1966	278.21

10S/6E-17J1. Altitude about 660 ft. All measurements by U.S. Geological Survey except as indicated.

Nov. 20, 1953	s179	Jan. 27, 1955	r195	Aug. 9, 1965	211.71
Nov. 9, 1954	180.63	Jan. 27	a r231		

10S/6E-21A1. Depth 310 ft in 1933 and 321.5 ft on June 24, 1952. Altitude about 640 ft. All measurements by U.S. Geological Survey except as indicated.

June 24, 1952	136.36	Aug. 19, 1953	c146.12	Nov. 25, 1953	138.55
May 1, 1953	139.01	Sept. 2	c142.95	Dec. 10	137.82
May 15	140.01	Sept. 17	c142.63	Dec. 21	c137.79
May 28	c140.75	Oct. 1	141.47	Jan. 6, 1954	c138.42
June 11	a141.41	Oct. 16	140.38	Jan. 7	c138.48
June 25	a142.10	Oct. 21	148.7	Jan. 21	139.52
July 1	a152.6	Oct. 29	139.91	Feb. 5	139.04
July 11	a141.16	Nov. 11	139.70	Feb. 13	144.27
Aug. 5, 1953	c151.26	Nov. 19	147.3	Feb. 24	138.79

Date	Water level	Date	Water level	Date	Water level
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10S/6E-21A1.--Continued.

Mar. 4, 1954	c139.98	Feb. 27, 1960	163.37	Jan. 6, 1965	169.78
Mar. 17	140.17	Nov. 22	165.33	Feb. 1	171.29
Apr. 2	139.57	Mar. 8, 1961	167.80	Mar. 3	169.05
Apr. 15	c143.38	Oct. 26	168.95	Apr. 5	168.82
May 17	c147.15	Mar. 15, 1962	166.69	May 5	177.16
May 28	148.65	Nov. 2	169.52	May 24	174.61
Aug. 13	c153.6	Mar. 15, 1963	166.87	June 29	175.34
Aug. 27	c153.7	Oct. 31	168.34	July 22	185.62
Nov. 9	148.18	Jan. 6, 1964	171.21	Sept. 7	174.55
Mar. 7, 1955	149.70	Feb. 5	173.65	Oct. 4	171.49
Aug. 3	r160.2	Mar. 9	169.35	Oct. 26	170.94
Nov. 28	147.12	Mar. 20	167.02	Nov. 5	170.37
Mar. 18, 1956	153.20	Apr. 3	176.7	Dec. 10	169.79
July 2	c161.62	May 8	179.0	Jan. 4, 1966	170.35
Nov. 16	149.99	June 3	181.5	Feb. 1	170.37
Mar. 15, 1957	154.38	July 7	179.4	Mar. 3	170.59
Nov. 26	154.04	Aug. 5	181.92	Mar. 10	170.55
Mar. 15, 1958	151.93	Sept. 11	178.3	Apr. 5	172.60
Nov. 5	159.85	Sept. 30	175.25	May 3	172.36
Mar. 12, 1959	156.30	Nov. 2	171.86	June 2	176.51
Nov. 24	161.31	Dec. 1	169.91	July 6	172.60
				Aug. 1	171.44

10S/6E-24K1. Depth 500 ft in 1928, 100 ft on Nov. 18, 1953, and 0 ft on March 3, 1966. Altitude about 600 ft. All measurements by U.S. Geological Survey.

Nov. 18, 1953	69.65	Mar. 15, 1958	71.94	Mar. 15, 1963	28.72
Feb. 24, 1954	69.45	Mar. 12, 1959	73.83	Oct. 31	29.31
Nov. 9	69.79	Feb. 27, 1960	91.75	Mar. 20, 1964	31.30
Mar. 7, 1955	69.34	Nov. 22	49.36	Nov. 13	15.35
Nov. 28	70.69	Mar. 8, 1961	49.30	Mar. 19, 1965	18.31
Mar. 18, 1956	70.45	Oct. 26	10.92	July 23	20.65
Nov. 16	71.18	Mar. 15, 1962	19.02	Oct. 26	21.30
Mar. 15, 1957	71.04	Nov. 2	24.80	Mar. 3, 1966	(p)

Date	Water level	Date	Water level	Date	Water level
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10S/6E-29N1. Depth reported to be 385 ft in 1950. Altitude about 600 ft. All measurements by U.S. Geological Survey.

	1952	85	Mar. 15, 1957	(a)	Nov. 2, 1962	117.19
Nov.	19, 1953	90.94	Nov. 26	105.31	Mar. 15, 1963	119.68
Feb.	3, 1954	94.12	Mar. 15, 1958	107.47	Oct. 31	117.84
Feb.	5	95	Nov. 5	119.02	Mar. 20, 1964	118.73
Feb.	24	93.48	Nov. 24, 1959	111.61	Nov. 12	121.87
Nov.	9	94.22	Feb. 27, 1960	112.56	Mar. 19, 1965	120.54
Mar.	7, 1955	(a)	Nov. 22	114.41	July 30	133.83
Nov.	29	102.39	Mar. 8, 1961	115.85	Oct. 26	123.51
Mar.	18, 1956	100.58	Oct. 26	117.23	Mar. 3, 1966	122.95
Nov.	16	102.01	Mar. 15, 1962	118.00		

10S/6E-34K1. Depth reported to be 203 ft in 1916. Altitude about 530 ft. All measurements by U.S. Geological Survey except as indicated.

	1916	332	Feb. 24, 1954	36.00	July 29, 1965	59.08
June	26, 1952	31.71	Nov. 9	38.30		

10S/6E-55N1. Depth reported to be 325 ft when drilled. Altitude about 520 ft. All measurements by U.S. Geological Survey except as indicated.

Dec.	21, 1954	26.50	Nov. 2, 1962	43.45	Apr. 5, 1965	42.00
Mar.	7, 1955	27.21	Mar. 15, 1963	494.42	May 24	43.26
Nov.	28	29.00	Oct. 31	42.53	Jun. 24	42.83
Mar.	18, 1956	34.01	Jan. 6, 1964	41.10	July 30	43.70
Nov.	16	31.20	Feb. 5	665.00	Aug. 2	52.30
Mar.	15, 1957	38.54	Mar. 9	677.00	Oct. 4	43.14
Nov.	26	43.48	Mar. 20	43.15	Oct. 26	91.39
Mar.	15, 1958	39.26	Apr. 3	672.67	Dec. 10	43.20
Mar.	12, 1959	45.40	July 17	45.49	Jan. 10, 1966	49.55
Nov.	24	41.35	Aug. 5	58.37	Feb. 1	43.20
Feb.	27, 1960	44.41	Nov. 2	42.79	Mar. 4	44.57
Nov.	22	42.05	Dec. 1	42.44	Mar. 10	35.70
Mar.	11, 1961	47.52	Jan. 6, 1961	51.83	July 6	43.20
Oct.	26	47.34	Feb. 1	76.47	Aug. 1	42.58
Mar.	15, 1962	39.21				

Date	Water level	Date	Water level	Date	Water level
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10S/6E-36Q1. Depth 356 ft in April 1951. Altitude about 29 ft. All measurements by U.S. Geological Survey.

Nov. 19, 1953	46.65	Mar. 17, 1963	59.95	May 5, 1964	64.18
Feb. 24, 1954	46.10	Oct. 31	60.43	May 24	65.01
Nov. 9	53.33	Jan. 6, 1964	58.10	June 29	64.67
Mar. 7, 1955	49.28	Feb. 5	60.03	July 25	65.18
Nov. 28	53.78	Mar. 9	61.66	Aug. 3	65.73
Mar. 18, 1956	56.35	Mar. 20	59.73	Sept. 7	66.64
July 2	54.95	Apr. 7	62.33	Oct. 4	65.96
Nov. 16	55.47	May 8	64.15	Oct. 26	64.22
Mar. 15, 1957	56.68	June 3	66.55	Nov. 5	63.34
Nov. 26	58.93	July 7	67.38	Dec. 10	62.90
Mar. 15, 1958	56.84	Aug. 5	67.91	Jan. 10, 1966	61.46
Nov. 5	64.22	Sept. 11	66.79	Feb. 1	61.49
Mar. 12, 1959	56.60	Sept. 30	66.18	Mar. 4	62.22
Nov. 24	61.35	Nov. 2	63.77	Mar. 10	63.01
Feb. 27, 1960	61.96	Dec. 1	61.72	Apr. 5	63.01
Nov. 22	62.75	Jan. 6, 1961	61.03	May 3	63.94
Mar. 8, 1961	53.79	Feb. 1	60.34	June 2	64.38
Oct. 26	61.46	Mar. 3	61.83	July 6	64.74
Mar. 15, 1962	59.58	Apr. 5	63.32	Aug. 1	66.00
Nov. 2	61.42				

10S/7E-19M1. Depth 418 ft in May 1952. Altitude about 600 ft. All measurements by U.S. Geological Survey.

June 26, 1952	87.22	Nov. 26, 1957	89.74	Mar. 15, 1963	94.10
Nov. 18, 1953	89.42	Nov. 5, 1958	90.82	Oct. 31	93.71
Feb. 24, 1954	110.55	Nov. 24, 1959	91.40	Mar. 20, 1964	94.12
Nov. 9	88.69	Feb. 27, 1960	91.61	Nov. 14	95.50
Mar. 7, 1955	88.69	Nov. 22	92.19	Mar. 19, 1965	95.98
Nov. 28	88.11	Mar. 8, 1961	92.32	July 23	96.13
Mar. 18, 1956	88.78	Oct. 26	91.83	Oct. 26	96.45
Nov. 16	89.11	Mar. 15, 1962	93.06	Mar. 3, 1966	96.61
Mar. 15, 1957	87.78	Nov. 2	93.64		

Date	Water level	Date	Water level	Date	Water level
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11S/6E-5P1. Depth 178.8 ft on November 19, 1953. Altitude about 600 ft. All measurements by U.S. Geological Survey.

Feb. 18, 1953	117.43	Nov. 26, 1957	131.60	Mar. 15, 1962	137.56
Nov. 19	120.94	Mar. 15, 1958	131.80	Nov. 2	138.18
Feb. 3, 1954	121.52	Nov. 5	133.78	Mar. 15, 1963	137.92
Feb. 24	121.65	Mar. 12, 1959	134.01	Oct. 31	138.45
Nov. 9, 1954	124.33	Nov. 24	135.22	Mar. 20, 1964	138.33
Mar. 7, 1955	124.88	Feb. 28, 1960	136.34	Nov. 12	139.29
Nov. 29	127.17	Nov. 22	137.20	Mar. 19, 1965	139.11
Mar. 18, 1956	127.53	Mar. 8, 1961	137.13	Aug. 11	139.97
Nov. 16	129.27	Oct. 26	137.72	Mar. 3, 1966	140.62
Mar. 15, 1957	129.55				

11S/6E-10N1. Depth reported to be 402 ft in 1946, and 386 ft on December 8, 1953. Altitude about 522 ft. All measurements by U.S. Geological Survey except as indicated.

Feb. 18, 1953	48.00	Mar. 15, 1962	64.09	Nov. 12, 1964	67.48
Dec. 8	s54.00	Nov. 2	c65.12	Mar. 19, 1965	66.14
Feb. 28, 1960	64.94	Mar. 15, 1963	63.90	Aug. 4	68.81
Nov. 22	67.60	Oct. 31	64.31	Oct. 25	68.65
Mar. 8, 1961	c65.21	Mar. 20, 1964	63.82	Mar. 3, 1966	67.51
Oct. 26	c65.76				

11S/6E-11D2. Depth reported to be 496 ft in 1946, and 217 ft on November 16, 1953. Altitude about 500 ft. All measurements by U.S. Geological Survey.

Nov. 16, 1953	47.53	Mar. 15, 1962	36.51	Mar. 3, 1965	34.27
Feb. 24, 1954	19.49	Nov. 2	31.40	Apr. 5	c60.06
May 14	a69.26	Mar. 15, 1963	31.18	May 24	c58.92
Nov. 8	c42.18	Oct. 31	22.08	June 29	c56.68
Mar. 7, 1955	19.71	Jan. 6, 1964	30.45	July 30	c60.01
Nov. 29	c45.18	Feb. 5	c54.85	Aug. 3	c54.50
Mar. 18, 1956	24.07	Mar. 9	34.15	Sept. 7	59.97
July 2	c47.74	Mar. 20	31.40	Oct. 4	37.05
Nov. 16	25.37	Apr. 3	c54.70	Oct. 25	49.50
Mar. 14, 1957	c57.84	May 8	44.55	Nov 5	34.01
Nov. 27	c57.48	July 7	40.43	Dec. 10	33.03
Mar. 15, 1958	c51.41	Aug. 5	(a)	Feb. 1, 1966	c51.90
Nov. 5	37.91	Sept. 11	49.97	Mar. 4	a c58.21
Mar. 12, 1959	a c 6.89	Sept. 30	c58.35	Mar. 10	c54.03
Nov. 34	31.59	Nov. 2	33.30	Apr. 5	c51.61
Feb. 21, 1960	c62.74	Dec. 1	31.80	May 3	c57.92
Nov. 28	33.96	Jan. 6, 1961	32.47	June 2	c59.50
Mar. 8, 1961	32.09	Feb. 1	31.23	July 6	c61.34
Oct. 26	33.62				

Date	Water level	Date	Water level	Date	Water level
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11S/6E-11M1. Depth reported to be 125 ft in 1912, 78 ft. on Nov. 30, 1917, and 104.3 ft on December 8, 1953. Altitude about 487 ft. All measurements by U.S. Geological Survey.

Nov. 30, 1917	(t)	Mar. 14, 1957	c19.77	Mar. 15, 1962	21.14
Feb. 18, 1953	5.30	Nov. 27	c21.24	Nov. 2	23.34
Dec. 8	6.45	Mar. 15, 1958	18.08	Mar. 15, 1963	21.48
Feb. 3, 1954	6.39	Nov. 4	24.16	Oct. 31	22.43
Feb. 24	9.19	Mar. 12, 1959	20.58	Mar. 20, 1964	21.73
Nov. 8	c10.64	Nov. 24	19.56	Nov. 13	23.60
Mar. 7, 1955	9.03	Feb. 28, 1960	c24.87	Mar. 19, 1965	23.86
Nov. 29	c13.78	Nov. 22	21.76	July 30	28.90
Mar. 18, 1956	13.43	Mar. 8, 1961	20.76	Oct. 25	26.76
Nov. 16	14.79	Oct. 26	22.90	Mar. 4, 1966	24.99

11S/6E-15E2. Depth 117 ft in April 1954 and 112 ft on June 25, 1961. Altitude about 520 ft. All measurements by U.S. Geological Survey except as indicated.

Dec. 9, 1953	43.06	Mar. 29, 1957	s50	Oct. 17, 1963	s58.35
Sept. 17, 1954	s48	June 25, 1961	s53.7	Aug. 4, 1965	57.98
Mar. 26, 1956	s52	June	s54.1		

11S/6E-15F1. Depth reported to be 122 ft in 1950. Altitude about 520 ft. All measurements by U.S. Geological Survey except as indicated.

1950	s37	Nov. 29, 1955	49.84	Nov. 27, 1957	q52.94
Feb. 19, 1953	40.77	Mar. 18, 1956	47.98	Mar. 5, 1958	51.80
Dec. 8	b45.7	Nov. 16	a56.0	Nov. 4	59.29
Mar. 7, 1955	48.05	Mar. 15, 1957	50.05	Aug. 5, 1965	q60.21

Date	Water level	Date	Water level	Date	Water level
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112/6E-2A1. Depth reported to be 134 ft in 1942, 116 ft on November 10, 1953, and 115.6 ft on Aug. 2, 1961. Altitude about 540 ft. All measurements by U.S. Geological Survey except as indicated.

1940	s57	Mar. 14, 1962	57.70	Apr. 5, 1965	61.69
Feb. 10, 1953	50.10	Nov. 2	c58.10	May 5	62.20
Nov. 30	42.6	Mar. 14, 1963	58.21	May 24	62.29
Feb. 24, 1954	a53.63	Oct. 31	58.34	June 29	63.07
Nov. 10	52.96	Jan. 6, 1964	60.12	Aug. 2	c62.77
Nov. 10	a53.64	Feb. 5	60.55	Aug. 3	62.94
Mar. 7, 1955	52.38	Mar. 9	60.37	Sept. 7	62.96
Nov. 29	56.21	Mar. 20	58.32	Oct. 4	63.02
Mar. 15, 1956	c52.39	Apr. 3	60.61	Oct. 25	62.94
Nov. 16	c53.53	May 8	61.00	Nov. 5	63.00
Mar. 14, 1957	c52.09	June 3	61.55	Dec. 10	62.54
Nov. 27	53.45	July 7	61.50	Jan. 10, 1966	62.38
Mar. 15, 1958	53.30	Aug. 1	61.86	Feb. 1	62.50
Nov. 4	55.76	Sept. 11	62.42	Mar. 5	61.86
Mar. 12, 1959	54.91	Sept. 22	62.50	Mar. 10	62.62
Nov. 24	55.49	Nov. 7	62.32	Apr. 9	62.75
Feb. 27, 1960	55.54	Dec. 1	62.04	May 3	63.12
Nov. 22	56.56	Jan. 6, 1961	61.76	June 2	63.28
Mar. 8, 1961	56.29	Feb. 1	61.73	July 6	62.89
Oct. 26	57.30	Mar. 3	61.70	Aug. 1	63.04

118/7E-7N1. Depth 140 ft in 1936, 82.4 ft on November 20, 1953, and 84.7 ft on March 4, 1966. Altitude about 475 ft. All measurements by U.S. Geological Survey.

Nov. 20, 1936	28.4	Mar. 15, 1953	31.34	Mar. 15, 1962	32.84
Feb. 24, 1954	28.31	Nov. 4	32.82	Nov. 2	34.74
Nov. 8	29.62	Mar. 12, 1959	32.15	Mar. 15, 1963	34.47
Mar. 7, 1955	29.05	Nov. 24	33.51	Mar. 20, 1964	34.75
Nov. 29	30.23	Feb. 28, 1960	33.08	Nov. 13	38.36
Mar. 18, 1956	29.89	Nov. 22	33.50	Mar. 19, 1965	38.58
Nov. 16	30.70	Mar. 8, 1961	33.19	Oct. 25	36.00
Mar. 14, 1957	31.48	Oct. 26	34.16	Mar. 4, 1966	(f)
Nov. 27	31.76				

Date	Water level	Date	Water level	Date	Water level
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11S/7E-20Pl. Depth 363 ft in May 1951, and 361 ft on February 1, 1954. Altitude about 595 ft. All measurements by U.S. Geological Survey.

Feb. 18, 1953	72.10	Nov. 27, 1957	71.78	Nov. 1, 1962	70.38
Dec. 9	a79	Nov. 4, 1958	71.79	Mar. 14, 1963	70.29
Feb. 23, 1954	73.08	Mar. 12, 1959	71.16	Oct. 31	70.24
Feb. 24	72.83	Nov. 24	70.94	Mar. 20, 1964	70.02
Nov. 8	a81.65	Feb. 28, 1960	70.78	Nov. 13	70.63
Mar. 7, 1955	a79.72	Nov. 23	70.66	Mar. 19, 1965	70.97
Nov. 29	a82.64	Mar. 8, 1961	70.56	July 28	70.69
Mar. 18, 1956	74.82	Oct. 26	70.42	Oct. 25	70.74
Nov. 16	73.79	Mar. 15, 1962	70.35	Mar. 4, 1966	71.67
Mar. 15, 1957	72.72				

11S/7E-32Q1. Depth 463 ft on November 2, 1952, and 418.7 ft on July 29, 1965. Altitude about 700 ft. All measurements by U.S. Geological Survey except as indicated.

Nov. 2, 1952	s195	Dec. 10, 1953	as268	July 29, 1965	192.23
Dec. 10, 1953	s188	Nov. 10, 1954	188.1		

12S/4E-24K1. Depth 90 ft in 1919, 95.8 ft on November 24, 1953, and 56.8 ft on September 6, 1965. Altitude about 2,440 ft. All measurements by U.S. Geological Survey.

Nov. 24, 1953	18.43	Mar. 8, 1961	30.35	Mar. 20, 1964	32.22
Mar. 19, 1956	23.30	Oct. 27	a32.34	Nov. 12	a36.63
Mar. 14, 1957	24.40	Mar. 16, 1962	31.40	Mar. 19, 1965	32.27
Nov. 4, 1958	27.71	Nov. 2	32.70	Sept. 6	36.11
Mar. 12, 1959	27.74	Mar. 15, 1963	32.59	Oct. 25	36.29
Nov. 24,	29.29	Oct. 31	32.36	Mar. 3, 1966	a33.45
Nov. 22, 1960	30.56				

12S/5E-34J1. Depth reported to be about 74 ft. Altitude about 2,280 ft. All measurements by U.S. Geological Survey.

Nov. 24, 1953	57.3	Nov. 22, 1960	60.22	Oct. 31, 1963	61.61
Mar. 15, 1958	58.32	Mar. 8, 1961	60.28	Mar. 20, 1964	61.74
Nov. 5	q54.43	Oct. 27	60.68	Mar. 19, 1965	64.38
Mar. 12, 1959	q58.71	Mar. 16, 1962	61.00	Aug. 24	63.11
Nov. 24	q65	Nov. 2	61.35	Mar. 3, 1966	62.52
Feb. 27, 1960	b61.85	Mar. 15, 1963	61.49		

Date	Water level	Date	Water level	Date	Water level
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12S/5E-34J2. Depth reported to be 213 ft when drilled, 88.0 ft on November 24, 1953, and 53.5 ft on August 19, 1965. Altitude about 2,270 ft. All measurements by U.S. Geological Survey.

Nov. 24, 1953	51.83	Mar. 19, 1956	53.85	Mar. 16, 1958	53.52
Nov. 11, 1954	52.92	Mar. 14, 1957	53.13	Aug. 19, 1965	(f)
Mar. 7, 1955	52.98				

12S/8E-6P1. Depth 314 ft in May 1952, and 293.0 ft on December 10, 1953. Altitude about 410 ft. All measurements by U.S. Geological Survey except as indicated.

May 10, 1952	s189	Feb. 24, 1954	179.96	Mar. 6, 1955	180.25
Dec. 10, 1953	179.8	Nov. 10, 1954	179.98	Aug. 17, 1965	194.36

12S/8E-22E1. Depth 226 ft in 1929. Altitude about 110 ft. All measurements by U.S. Geological Survey.

Dec. 15, 1953	101.93	Mar. 15, 1958	102.02	Nov. 1, 1962	112.49
Feb. 24, 1954	102.19	Nov. 4	105.61	Mar. 14, 1963	113.28
Nov. 10	101.83	Mar. 12, 1959	105.86	Oct. 31	113.84
Mar. 6, 1955	101.89	Nov. 24	108.56	Mar. 20, 1964	113.92
Nov. 29	101.89	Feb. 28, 1960	c108.60	Nov. 13	109.92
Mar. 18, 1956	102.17	Nov. 23, 1960	108.82	Mar. 19, 1965	110.95
Nov. 16	101.92	Mar. 9, 1961	109.39	Aug. 18, 1965	109.36
Mar. 15, 1957	101.87	Oct. 26	110.13	Oct. 25	109.25
Nov. 27	101.94	Mar. 15, 1962	c110.52	Mar. 4, 1966	110.04

12S/9E-22A2. Depth 667 ft in May 1962. Altitude about -10 ft. All measurements by U.S. Geological Survey except as indicated.

May 1962	s85	Aug. 2, 1963	a105.81	Mar. 20, 1964	101.4
Mar. 14, 1963	a101.7	Oct. 31	104.9	Mar. 19, 1965	95.3

Date	Water level	Date	Water level	Date	Water level
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12S/9E-23D1. Depth 445 ft. Altitude about -15 ft. All measurements by U.S. Geological Survey.

Dec. 15, 1953	64.17	Nov. 27, 1957	70.18	Mar. 14, 1963	a142.55
Feb. 24, 1954	65.79	Mar. 15, 1958	66.76	Oct. 31	a142.88
Nov. 10, 1954	64.56	Nov. 4	72.48	Mar. 20, 1964	87.87
Mar. 6, 1955	a129.0	Mar. 9, 1961	b79.08	Mar. 19, 1965	95.4
Nov. 29	64.87	Oct. 26	a134.71	Aug. 12	c110.05
Mar. 18, 1956	64.43	Mar. 15, 1962	a135.61	Oct. 25	c108.26
Nov. 16	a133.52	Nov. 1	a141.08	Mar. 4, 1966	c109.27
Mar. 15, 1957	65.00				

14S/5E-2G1. Depth 104 ft on November 25, 1953. Well redrilled, depth 172.3 ft on August 27, 1965. Altitude about 2,060 ft. Measurements by U.S. Geological Survey.

Nov. 25, 1953	70.64	Nov. 5, 1958	77.92	Mar. 20, 1964	82.64
Mar. 18, 1956	74.01	Nov. 23, 1960	81.12	Aug. 27, 1965	86.27
Mar. 14, 1957	75.39	Mar. 16, 1962	81.70	Mar. 3, 1966	86.63

14S/6E-8F3. Depth 109.0 ft. on September 1, 1965. Altitude about 1,645 ft. All measurements by U.S. Geological Survey except as indicated.

Nov. 22, 1960	s72.6	Mar. 20, 1964	66.05	Mar. 3, 1966	69.22
Mar. 16, 1962	65.31	Sept. 1, 1965	68.68		

14S/6E-16F1. Depth 61.8 ft on January 5, 1954. Altitude about 1,620 ft. All measurements by U.S. Geological Survey.

Jan. 5, 1954	21.15	Mar. 18, 1956	22.32	Nov. 5, 1958	25.36
Nov. 11	22.23	Mar. 14, 1957	22.94	Sept. 2, 1965	30.29

15S/8E-17C1. Depth 127 ft. Altitude about 610 ft. All measurements by U.S. Geological Survey.

Dec. 14, 1953	52.49	Mar. 16, 1958	58.59	Mar. 20, 1964	61.44
Nov. 11, 1954	51.71	Nov. 5	57.48	Mar. 3, 1966	63.89
Mar. 18, 1956	54.52	Nov. 23, 1960	60.7	May 5, 1966	64.02
Mar. 14, 1957	58.67	Mar. 16, 1962	60.42		

APPENDIX C

TABLE 3. CHEMICAL ANALYSES OF WATER FROM WELLS AND SPRINGS

Table 1.--Chemical analyses of water from wells and springs

[All values have been rounded to conform to Geological Survey standards]

Date of collection: The letter A preceding the date indicates the date the sample was analyzed, rather than the date it was collected.

Calcium: Values preceded by the letter B indicate a combination of calcium and magnesium.

Sodium: Values preceded by the letter M indicate a combination of sodium and potassium.

Sulfate: Values preceded by the letter S were calculated by difference by the Geological Survey.

CU Culligan, Inc.; DA U.S. Department of Agriculture; DMR California Department of Meter Resources; GE U.S. Geological Survey; H Hormick Laboratories, Inc.; J James Laboratory; JBB Brown (1983); SD San Diego Testing Laboratory; T Thomas Laboratory; TE Testing Engineers, Inc.; UC University of California, Extension Service; W U.S. Department of Agriculture, Soil Conservation Service.

Well number	Date of collection	Depth of well (feet)	Water temperature (°F)	Results in parts per million (ppm)												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)	Calculated (Sum of determined constituents)	Residue on ignition at 100°C	Hardness as CaCO ₃	Noncarbonate hardness as CaCO ₃	Percent sodium
92/B-70B1	4-11-54			0	3	165	68	152	15	267	0	230	0.9	45	0	0.25	1,950	1,340	500	30	1,481	7.8	DMR P583
228K1	4-11-54					30	8.6	28	3.6	129	0	38	18	.5	2.5	0	193	265	500	34	334	8.2	DMR P538
95/GE-61B1	6-1-55	75				87	31	240	5.1	89	0	760	1.6	3.0	3.0	.12	1,450	1,040	500	67	1,640	7.4	DMR 5228
95/GE-68B3	4-15-77	11	79			18	3	163	9	116	0	170	2.5	4.3	.01	535	560	500	84	680	4.6	DMR T371	
95/GE-10B1	4-17-79	20				473	80	11	12	166	0	1,270	83	1.0	0	0	2,030	1,990	500	2	2,490	7.4	DMR T4227
95/GE-4B1	4-17-79	30	4			40	17	42	4.3	170	0	95	35	.1	8.4	.04	335	350	500	32	411	7.3	DMR 2712
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
103/GE-F1	1-1-56	702	72			109	18	90	9.9	229	0	282	1.0	5.4	.12	693	723	346	35	843	7.5	DMR 2717	
103/GE-F1	7-1-56	78	75			101	19	104	11	180	0	295	1.7	3.9	.15	725	709	330	40	1,110	8.0	DMR T2431	
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	394	410	500	33	542	7.3	DMR 7225
95/GE-4B1	4-17-79	77				70	6	46	6.0	179	0	105	35	.2	0	.02	39						

Well number	Date of collection	Depth of well (feet)	Water temperature (°F)	Results in parts per million (ppm)													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)			Calculated Sum of determined constituents	Residue on filtration at 180°C	Hardness as CaCO ₃
U.S. Public Health Service drinking-water standards (1962)																					
189/66-1701	3-17-73	77		363	87	310	16	287	0	1,040	310	0.8	2.0	0.1	2,160	2,300	1,010	40	2,940	DNR 2872	
	11-20-73			266	87	313	18	223	0	1,040	301	0.7	2.1	0.1	2,140	2,390	1,020	39	2,997	DNR R10	
	1-15-74	79		269	83	320	17	216	0	81,060	300	1.9	1.9	0.1	2,180	2,390	991	41	3,000	GS 1002-1	
	4-13-74	72		276	85	299	18	227	0	1,060	286	0.8	2.0	0.1	2,180	2,480	1,340	40	2,940	DNR 1180	
	10-21-74	78		276	85	298	18	227	0	1,060	286	0.8	2.0	0.1	2,180	2,480	1,340	37	2,940	DNR 6930	
	12-21-74	78		281	89	303	17	233	0	1,100	288	1.1	1.9	0.1	2,200	2,480	1,070	37	2,940	DNR 7711	
	1-15-75	78		281	89	300	17	233	0	1,100	288	1.1	1.9	0.1	2,200	2,400	1,070	37	2,940	DNR 7711	
	5-28-63			297	80	298	298	216	0	1,120	275	1.6	0	0.1	2,700	2,500	1,070	37	2,850	DNR L3446	
1702	8-26-72	64		294	87	400	17	186	0	1,110	460	0.6	1.0	0.2	2,410	2,530	1,690	44	3,130	DNR 2872	
	11-13-74			328	102	334	18	238	0	1,160	413	0.6	1.1	0.4	2,480	2,680	1,240	37	3,140	DNR R21	
	8-17-75			274	90	358	16	262	0	1,170	332	0.8	1.2	0.2	2,530	2,400	1,150	40	2,900	DNR 6829	
	3-1-77	30		274	81	360	15	278	0	1,020	314	0.8	1.2	0.2	2,460	2,460	1,030	43	2,960	DNR 7710	
18A1		50		197	116	482				1,070		1.1	1.2		1,800	2,380			3,670	0	
18B1	3-17-73	68		271	72	250	18	171	0	1,020	290	0.6	2.0	0.2	1,970	2,080	990	35	2,660	DNR 2941	
	4-13-74	71		281	72	250	17	171	0	1,020	255	0.7	0.4	0.4	1,980	2,070	1,000	33	2,670	DNR 4110	
	1-15-75	71		284	76	240	18	169	0	1,060	249	0.8	1.0	0.4	2,090	2,150	1,220	34	2,880	DNR 7711	
28/88-6P1	1-15-74	293	93	16	1.6	109	4.1	102	0	640	116	1.2	0.2	0.5	47	0	0	81	6.1	7.8	GS 1100-8
5K1	1-3-54	89		20	3.1	112	3.5	106	0	662	106	1.5	0.5	0.2	365	64	0	79	692	7.9	GS 1000-0
471	1-24-49	120.0		130	21	366		122	Trace	575	348		2.0	1.520	411				2.4	0	W-2
471	8-6-51-59	230		10	2	137		96		96	128	5	0.5	405	466			90	717	7.1	C-11447
63P	3-4-60	70	31	67	7	448	9.4	113	0	565	340	4.8	1.4	1.2	1,530	1,110	196	50	2,460	7.8	DNR R311-2
181	1-1-72	222	94	19	3	220	3.7	93	0	178	185	8.0	1	0	663	702	56	0	1,020	8.1	DNR 1771
	1-13-74	97	77	20	1.8	212	2.2	78	0	423	185	0.7	1.1	0	713	57	0	89	1,210	5.1	GS 1007
	1-15-66	72	8	50	1.84	184	3.1	101	0	422	289	5.3	1.1	1.1	1,270	1,260	151	0	1,970	4.7	DNR R344
13E1	1-14-69	140.0		32		465				330		2.2	1.2		370	254			880	W-1	
13K1	1-7-64	67		12	18					85		2.2	1.2		370	104			7	7	TE SDB-11
18F1	1-1-63	113	67							115		5.3	1.1	0.7	518	49		84	930	6.1	GS 1006
3E1	1-15-64	266		16	1.5	177	0.1	146	0	615	147	5.1	0.4	0.7	567	498	49	88	840	4.1	DNR R3420
	1-1-70			18	1	186	0.5	117	0	117	145	5.3	0.4	0.7	567	49		88	840	4.1	DNR R3420
18X1	1-6-63			14	0	167		14		14	142	5.5	0.6	0.4	42	432	4	59	42	4.2	SD
28F1	1-1-63			0.1	0.2	85		76		308	217	5.5	0.7	0.6	600	905	4	66	81	8.1	SD
401	1-15-54	22	4	4	1.4	85	10	0	0	620	335	0.6	0.6	0.4	2,410	1,440	0	0	1,430	6.9	GS 1006
	1-15-63			8	1	61		548		423	2.1	0.2	1.1	1,240	2,340			1,430	6.9	GS 1006	
60F1	1-14-69	102.5		79	16	62		175	Trace	103	72	0.2	0.4	0.4	444	261		61	1,200	6.0	T Y 177
67F1	1-10-49	105		196	7	100		4		42	724		0.4	0.4	4,480	1,140		61	1,200	6.0	T Y 177
18B1-82-01	1-1-63			177	42	425		116		425	71		0	0	1,340				3,380	6.0	W-1

APPENDIX D

TABLE 4. DRILLERS' LOGS OF WELLS

Table 4.--Drillers' logs of wells

Where the depth given in the log table differs from that given in table 1, it indicates the well has been measured since it was drilled. The depth given in table 1 is a measured depth on the date indicated. The depth given in table 4 is the depth reported by the driller and is not necessarily the developed depth of the well.

	Thickness (feet)	Depth (feet)
10S/5E-25R1. 12-inch casing. Altitude about 725 ft.		
Sand and gravel -----	40	40
Sand, coarse -----	10	50
Sand, coarse, and boulders -----	10	60
Silt, sand, and boulders -----	10	70
Sand, tight, and gravel -----	10	80
Sand, tight, and boulders -----	10	90
Sand, silt, and gravel -----	10	100
Sand and gravel -----	10	110
Sand, tight and medium -----	10	120
Sand and gravel -----	10	130
Sand and clay -----	10	140
Sand, medium, and clay -----	10	150
Sand, medium -----	20	170
Sand and gravel -----	10	180
Sand and boulders -----	10	190
Sand and clay -----	10	200
Sand, gravel, and clay -----	10	210
Sand -----	30	240
Sand and "spot" boulders -----	10	250
Sand -----	20	270
Sand and "spot" boulders at 272 ft. -----	10	280
Sand and boulders -----	10	290
Sand -----	10	300
Sand and boulders -----	10	310
Sand, gravel, and clay -----	10	320
Sand and gravel -----	10	330
Sand, coarse, and gravel, cemented -----	10	340
Sand, fine and hard-packed with occasional boulders -----	10	350
Sand, fine and hard -----	10	360
Sand, fine and hard-packed -----	10	370
Sand, fine -----	10	380
Sand, medium to coarse, and boulders -----	10	390
Sand, fine, and boulders -----	10	400
Sand and boulders -----	10	410
Sand, fine -----	10	420
Sand, medium-fine, and sand, fine with boulders at 427- 429 ft. -----	10	430
Sand, medium-fine, and shells -----	10	440
Sand, fine, and shells -----	30	470
Sand, tight and fine, and shells -----	35	505

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

10S/6E-5F1. Drilled by Pacific Coast Drilling Co. 30-inch casing
0-50 ft, 16-inch casing 0-702 ft; perforated 250-700 ft. Altitude about
800 ft.

Sand -----	10	10	Boulders and sand ---	24	455
Boulders -----	35	45	Sand, coarse -----	10	465
Sand and gravel -----	30	75	Boulders -----	15	480
Sand, gravel, and boulders -----	33	108	Sand, coarse -----	10	490
Boulders -----	12	120	Boulders -----	7	497
Sand, coarse -----	45	165	Sand, coarse -----	53	550
Clay, sandy -----	5	170	Boulders and sand, coarse -----	23	573
Sand, coarse -----	34	204	Sand, coarse, and gravel -----	39	612
Boulders -----	14	218	Boulders -----	48	660
Sand, coarse -----	22	240	Sand and gravel -----	8	668
Boulders -----	30	270	Boulders -----	12	680
Sand, coarse -----	61	331	Sand, coarse -----	3	683
Boulders -----	14	345	Boulders -----	7	690
Sand -----	59	404	Sand -----	5	695
Sand, medium -----	16	420	Boulders -----	9	704
Boulders -----	11	431			

10S/6E-8A1. Drilled by Mann Bros. Drilling Co. 16-inch casing
0-624 ft; perforated 300-624 ft. Altitude about 780 ft.

"Surface" -----	90	90	Sand, medium to medium-fine -----	30	348
Sand and rocks, hard -----	22	112	Sand, medium -----	22	370
Sand, medium to fine -----	8	120	Rock -----	20	390
Sand, medium-coarse, and rock -----	16	136	Sand, medium -----	30	420
Sand, medium-fine --	16	152	Shale and sand, medium fine -----	30	450
Sand, fine and hard -	11	163	Sand, medium -----	16	466
Rock -----	13	176	Shale, hard -----	12	478
Sand, medium fine, with streaks of rock -----	27	203	Sand, medium, and rock -----	8	486
Sand, medium, and conglomerate -----	23	226	Sand, medium-coarse -	56	542
Sand, medium to medium fine -----	34	260	Shale -----	8	550
Sand, fine and tight	20	280	Rock -----	10	560
Sand, medium-coarse, with rocks -----	38	318	Rock and shale -----	8	568
			Sand, medium -----	12	580
			Sand, medium-coarse -	20	600
			Gravel -----	24	624
			Sand, medium-fine ---		624

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

10S/6E-8P1. Drilled by W. A. Borden. 14-inch casing:
 perforated 247-259 ft, 320-340 ft, 396-430 ft, 480-500 ft, and
 520-620 ft. Altitude about 720 ft.

Soil -----	14	14	Sand, hard-packed --	9	288
Sand -----	35	49	Clay, blue -----	28	316
Clay and silt -----	2	51	Clay, brown -----	4	320
Clay and sand -----	9	60	Gravel, 1½-to 2-inch	20	340
Clay and silt, some			Clay, brown -----	8	348
rocks -----	20	80	Sand -----	48	396
Sand, muddy -----	14	94	Gravel, 1-inch -----	34	430
Gravel and sand -----	25	119	Sand with a few		
Sand, packed -----	1	120	rocks -----	40	470
"Quicksand" -----	71	191	Clay -----	10	480
Clay -----	1	192	Gravel, 1½-to 2-inch	20	500
Sand and gravel, fine	38	230	Silt and sand -----	18	518
Clay, yellow -----	2	232	Clay, yellow -----	2	520
Clay, muddy -----	8	240	Gravel, 1½-to 2-inch	18	538
Clay, yellow -----	7	247	Gravel, 1½-to 3-inch	48	586
Gravel, 1½- to 2-inch	12	259	Gravel and sand ---	34	620
Clay, gray, and			Gravel and rocks ---	28	648
shale -----	20	279			

10S/6E-9F1. Drilled by Pacific Coast Drilling Co. 16-inch casing
 0-460 ft, 12-inch casing 460-780 ft; perforated 244 to 780 ft. Altitude
 about 715 ft.

Sand -----	80	80	Sand, coarse -----	45	570
Sand, coarse -----	40	120	Sand, coarse, with		
Sand, fine -----	40	160	streaks of clay --	46	616
Gravel and sand,			Sand, coarse -----	19	635
coarse -----	125	285	Sand, with streaks		
Sand, coarse, with			of clay -----	15	650
streaks of clay ---	90	375	Sand, coarse -----	25	675
Clay, silty -----	17	392	Sand, with streaks		
Sand, coarse, and			of clay -----	10	685
gravel -----	118	510	Sand, coarse, and		
Boulders -----	5	515	gravel -----	90	775
Sand and gravel -----	10	525	Sand and clay -----	8	783

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

10S/6E-9N1. Drilled by Roscoe Moss. 16-inch casing; perforated 250-254 ft, 268-272 ft, 408-480 ft, 506-514 ft, and 572-607 ft. Altitude about 715 ft.

Sand -----	170	170	Sand -----	18	408
Silt -----	60	230	Clay and sand with		
Gravel -----	10	240	streaks of gravel -	42	450
Silt -----	10	250	Boulders -----	30	480
Gravel -----	6	256	Silt -----	26	506
Silt -----	12	268	Sand and gravel, fine	8	514
Gravel -----	4	272	Sand -----	58	572
Clay and silt -----	94	366	Sand and few gravel	35	607
Gravel -----	6	372	Sand -----	27	634
Clay and silt -----	18	390			

10S/6E-10M1. Drilled by Pacific Coast Drilling Co. 16-inch casing 0-498 ft, 12-inch casing 498-762 ft; perforated 272-498 ft and 504-762 ft. Altitude about 700 ft.

Sand, medium, with			Sand, coarse -----	89	571
streaks of clay ---	194	194	Sand, coarse, and		
Gravel and boulders -	10	204	gravel, with		
Sand, coarse, and			streaks of clay ---	41	612
gravel, with			Sand, medium -----	32	644
streaks of clay ---	122	326	Sand, coarse -----	66	710
Sand, coarse -----	111	437	Sand, coarse, and		
Gravel and boulders,			gravel -----	46	756
with streaks of			Clay, sandy -----	6	762
clay -----	45	482			

10S/6E-14G1. 12-inch casing; perforated 317-392 ft. Altitude about 620 ft.

Surface soil -----	8	8	Gravel, fine, and		
Sand, dry -----	112	120	sand -----	6	176
Clay, yellow -----	2	122	Clay, blue -----	3	179
Gravel -----	5	127	"Quicksand" -----	3	182
Sand with clay			Gravel, fine, and sand	24	206
streaks -----	43	170	Sand, fine and muddy	10	216

		Thickness	Depth			Thickness	Depth
		(feet)	(feet)			(feet)	(feet)
10S/6E-14G1--Continued							
Sand and gravel, fine	4	220	Clay and sand, fine -	9	295		
Sand and strips of			Sand, fine, and				
clay -----	8	228	small rocks -----	5	300		
"Quicksand" and mud -	20	248	Clay -----	10	310		
Sand, fine and blue -	8	256	Sand and clay -----	6	316		
Clay, black -----	8	264	Clay -----	1	317		
Sand, fine and blue,			Boulders -----	11	328		
and gravel, fine --	6	270	Gravel, coarse, and				
Clay, blue -----	1	271	sand -----	12	340		
Gravel, gray,			Gravel and rocks ----	52	392		
3/8 inch -----	3	274	Clay -----	2	394		
Sand, fine -----	12	286	Sand, dirty -----	26	420		

10S/6E-15D1. 16-inch casing. Altitude about 660 ft.

Sand -----	20	20	Sand and boulders ---	5	546		
Sand, with streaks of			Sand -----	8	554		
clay -----	68	88	Sand with small				
Sand and boulders ---	16	104	boulders -----	15	569		
Sandstone, with			Sandstone, sand, and				
streaks of clay, and			boulders -----	20	589		
boulders -----	27	131	Sand, hard, and				
Rock -----	5	136	boulders -----	11	600		
Sand and boulders ---	20	156	Sand and boulders ---	10	610		
Clay, sandy -----	4	160	Clay, sandy -----	5	615		
Sand, with streaks			Sand -----	7	622		
of clay -----	12	172	Clay, sandy -----	7	629		
Sandstone and sand --	27	199	Sand, fine -----	10	639		
Sand and boulders ---	44	243	Clay, sandy -----	7	646		
Clay and sandstone --	17	260	Sand and boulders ---	22	668		
Sand and boulders ---	111	371	Clay, sticky -----	2	670		
Sand, with streaks			Sand and boulders ---	10	680		
of clay -----	22	393	Sand, fine -----	5	685		
Sand and sandstone,			Sand, with streaks of				
packed -----	53	446	clay -----	5	690		
Sand with some			Sand and boulders ---	18	708		
boulders -----	41	487	Clay and boulders,				
Sand -----	45	532	hard -----	4	712		
Sand, hard -----	9	541					

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

10S/6E-15D2. 16-inch casing. Altitude about 660 ft.

Surface soil -----	6	6	Sand -----	47	455
Sand and silt -----	39	45	Clay -----	17	472
Sand, hard, and boulders -----	97	142	Sand, fine -----	14	486
Sand and boulders ---	105	247	Gravel and boulders, with streaks of clay -----	14	500
Sand -----	17	264	Sand and clay, sandy	75	575
Sand, fine, with streaks of clay ---	74	338	Clay, sandy -----	32	607
Clay -----	11	349	Sand, fine, with streaks of clay ---	93	700
Sand and boulders ---	41	390			
Clay -----	18	408			

10S/6E-16N1. 16-inch casing. Altitude about 661 ft.

Surface soil -----	6	6	Clay, sandy, with streaks of clay	208	543
Sand and silt -----	122	128	Sand -----	182	725
Sand and boulders ---	70	198	Clay -----	5	730
Clay, sandy -----	10	208	Sand -----	29	759
Sand and boulders ---	55	263	Clay -----	38	797
Clay, sandy -----	31	294			
Sand -----	41	335			

10S/6E-17C1. Drilled by Claude E. Kelley. 14-inch casing 0-240 ft, 12-inch casing 240-418 ft, and 10-inch casing 418-558 ft. Altitude about 710 ft.

Surface sand and silt	228	228	Sand -----	10	412
Gravel -----	14	242	Clay -----	6	418
Sand, fine -----	12	254	Boulders -----	21	439
Gravel -----	9	263	Clay -----	7	446
Silt -----	7	270	Boulders -----	16	462
Silt and sand, with streaks of clay ---	35	305	Clay and silt -----	16	478
Gravel -----	12	317	Gravel -----	12	490
Clay, silty, with streaks of sand ---	85	402	Clay -----	8	498
			Sand -----	60	558

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

10S/6E-20A1. 16-inch casing. Altitude about 650 ft.

Surface soil -----	10	10	Sand and clay -----	39	404
Sand and silt -----	35	45	Sand and boulders --	128	532
Sand, with streaks of clay -----	78	123	Sand, fine -----	119	651
Sand -----	230	353	Clay -----	17	668
Sand, with streaks of clay -----	12	365			

10S/6E-20B1. 16-inch casing. Altitude about 650 ft.

Sand, with streaks of clay -----	40	40	Clay, sandy, and boulders -----	40	425
Sand, and silt, tight	25	65	Sand, with small boulders -----	13	438
Sand and silt, packed -----	24	89	Clay, sandy -----	7	445
Clay, sandy, with streaks of sandstone	29	118	Sand, packed -----	13	458
Sand, packed -----	15	133	Sand, with hard streaks -----	5	463
Sand, packed, and boulders -----	23	156	Clay, sandy, with hard streaks -----	20	483
Sand, hard and white, and boulders -----	45	201	Sand and boulders --	10	493
Sand, packed, and boulders -----	20	221	Clay, sandy -----	42	535
Clay, sandy, hard streaks -----	13	234	Sand; sand, packed -----	26	561
Sand, hard streaks ---	26	260	Clay, sandy and dry	30	591
Sand, with streaks of clay and silt -----	30	290	Sand, with streaks of clay -----	19	610
Sand and clay, sandy -	26	316	Sand and boulders -----	8	618
Sand, packed, and boulders -----	11	327	Clay, sandy -----	8	626
Sand, hard streaks ---	7	334	Sand streaks, with clay, hard -----	6	632
Clay, sticky -----	12	346	Clay, sandy, with streaks of boulders	6	638
Clay, sandy, with streaks of shale ---	39	385	Clay, hard and sandy	11	649
			Clay, sandy, and boulders -----	7	656
			Clay -----	6	662

Thickness Depth		Thickness Depth			
(feet)	(feet)	(feet)	(feet)		
10S/6E-21A1. 12-inch casing.		Altitude about 640 ft.			
Sand and silt -----	96	96	Sand, dirty -----	3	240
Boulders -----	2	98	Clay, in strips, and		
Sand, fine and muddy	33	131	sand -----	6	246
Sand, cemented -----	2	133	Sand and gravel, fine	6	252
Gravel and sand -----	8	141	Sand, fine -----	12	264
Sand, dirty, and silt	13	154	Clay and sand -----	14	278
Clay, brown -----	16	170	Sand and silt -----	2	280
Silt and sand, fine -	43	213	Clay, brown -----	9	289
Clay, yellow -----	1	214	Clay, yellow -----	2	291
Sand -----	18	232	Sand -----	19	310
Clay, yellow -----	5	237			

10S/6E-21B1. 16-inch casing. Altitude about 640 ft.

Surface sand -----	32	32	Clay, sandy -----	12	392
Sand, coarse -----	46	78	Sand, gravel, and		
Sand and boulders -----	32	110	boulders -----	17	409
Sand, coarse -----	21	131	Sand and boulders ---	12	421
Sand and sandstone,			Clay, sandy -----	9	430
soft -----	14	145	Clay, hard -----	11	441
Clay, sandy -----	35	180	Sand and boulders ---	11	452
Sand, coarse, and			Sand, with streaks		
boulders -----	16	196	of clay -----	8	460
Clay, sandy -----	10	206	Sand and boulders ---	5	465
Sand, sandstone and			Clay, sandy -----	10	475
boulders -----	24	230	Sand and boulders ---	22	497
Clay, sandy -----	4	234	Clay -----	17	514
Sand and boulders ---	10	244	Sand and boulders ---	16	530
Clay, sandy -----	5	249	Clay -----	9	539
Sand and boulders ---	10	259	Sand, fine and hard	7	546
Sand, with streaks			Clay, sandy -----	23	569
of clay -----	10	269	Sand -----	11	580
Clay, sandy -----	4	273	Sand and clay -----	15	595
Sand and boulders ---	14	287	Sand -----	7	602
Clay, sandy -----	6	293	Clay, hard -----	15	617
Sand and boulders ---	22	315	Clay, sandy -----	6	623
Clay, sandy -----	4	319	Sand and boulders ---	16	639
Sand, coarse, and			Sand, fine -----	12	651
boulders -----	24	343	Clay -----	4	655
Sand, coarse -----	13	356	Sand and boulders ---	12	667
Clay, sandy -----	4	360	Clay, sticky -----	5	672
Sand, coarse -----	20	380			

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

10S/6E-21B2. Drilled by B and B Drilling Co. 16-inch casing.
Altitude about 640 ft.

Sand and silt -----	90	90	Sand, fine, and silt	40	580
Sand, coarse, and silt -----	60	150	Sand -----	40	620
Sand, fine, with streaks of silt ---	140	290	Clay and sand, silty -----	30	650
Sand, with streaks of silt -----	70	360	Sand, with streaks of silt (very abrasive) -----	60	710
Sand -----	20	380	Silt and clay, silty, with streaks of sand -----	140	850
Sand, coarse, and "pea" gravel -----	30	410	Clay, silty -----	17	867
Sand, with streaks of clay and silt	70	480			
Sand -----	60	540			

10S/6E-21C1. 16-inch casing. Altitude about 640 ft.

Surface sand -----	20	20	Boulders and sand, packed -----	25	533
Sand, packed -----	60	80	Boulders, with streaks of sandy clay -----	45	578
Sand and gravel -----	10	90	Boulders and clay --	26	604
Sand, packed -----	50	140	Clay -----	8	612
Boulders and gravel -	15	155	Boulders and clay, sandy -----	18	630
Sand, free -----	46	201	Boulders and clay --	150	780
Sand, with streaks of clay -----	44	245	Boulders, with streaks of sandy clay -----	10	790
Sand and gravel -----	42	287	Sand, packed -----	15	805
Sand, packed, with streaks of clay ---	26	313	Clay, sandy, few small boulders ---	75	880
Sand, packed -----	27	340	Sand, packed, and clay, sandy -----	40	920
Clay, sandy, with streaks of boulder-	22	362	Clay -----	25	945
Boulders, small, sand and clay -----	38	400	Clay, sandy, and sand, packed -----	19	964
Boulders, sandstone, and sand -----	44	444			
Clay, sandy -----	22	466			
Sand, packed, and boulders -----	21	487			
Sand, packed -----	21	508			

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

10S/6E-21D1. 16-inch casing. Altitude about 650 ft.

Sand, fine -----	15	15	Boulders and clay, sandy -----	31	291
Sand and "hard pan" -	24	39	Sand, packed, and clay -----	79	370
Sand, packed -----	65	104	Boulders and clay --	27	397
Clay and sand -----	24	128	Boulders and sand --	25	422
Sand, packed, with sandstone ledges --	19	147	Sand, packed, and clay, sandy -----	43	465
Boulders, small, and streaks of fine sand -----	9	156	Boulders and clay --	24	489
Sand and clay, dry --	59	215	Clay -----	56	545
Boulders and gravel, small -----	8	223	Boulders and sand, with streaks of clay -----	100	645
Sand, packed, and streaks of dry clay -----	37	260	Clay -----	3	648

10S/6E-21E1. 16-inch casing. Altitude about 640 ft.

Surface sand -----	4	4	Sand, coarse -----	26	486
Sand -----	76	80	Sand, coarse, and gravel -----	64	550
Sand, coarse -----	125	205	Sand, coarse, with streaks of clay --	30	580
Clay, sandy -----	80	285	Clay -----	60	640
Sand, coarse, with streaks of clay ---	60	345	Sand, coarse -----	31	671
Sand, coarse, and gravel -----	7	352	Sand, coarse, and gravel -----	109	780
Clay, sandy -----	83	435	Clay and gravel ----	50	830
Sand -----	19	454	Sand, coarse -----	70	900
Clay -----	6	460			

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

10S/6E-21F1. Drilled by B and B Drilling Co. Altitude about 640 ft.

Sand and clay -----	80	80	Clay, silty, and		
Sand, with thin			sand, fine -----	7	355
streaks of silt ---	43	123	Sand, coarse -----	20	375
Sand and clay, silty-	37	160	Sand, fine, with		
Silt and clay, with			streaks of clay --	35	410
streaks of fine			Sand, coarse, with		
sand -----	55	215	streaks of fine		
Sand, with streaks of			sand -----	55	465
hard sand and			Sand and clay, silty	40	505
cobbles -----	65	280	Sand, coarse, with		
Sand, with streaks of			streaks of clayey		
clay -----	35	315	sand -----	26	531
Sand, coarse -----	33	348			

10S/6E-21H1. 16-inch casing. Altitude about 635 ft.

Surface soil -----	10	10	Sand and boulders --	20	514
Sand and silt -----	80	90	Clay, sandy -----	128	642
Sand and boulders ---	133	223	Sand -----	33	675
Clay, sandy -----	134	357	Sand, fine -----	40	715
Sand -----	55	412	Clay -----	37	752
Clay, sandy -----	82	494			

10S/6E-21K1. 14-inch casing 0-150 ft; perforated 115-147 ft.
Altitude about 620 ft.

No record -----	105	105	Sand, coarse -----	40	150
Sand, fine to coarse	5	110	Sand, coarse to fine	9	159

Thickness Depth
(feet) (feet)

10S/6E-21L1. 16-inch casing. Altitude about 620 ft.

Surface sand and sand, packed -----	47	47
Sand, dry, with streaks of clay -----	8	55
Sand, coarse, with streaks of clay -----	11	66
Sand, packed, and sandstone -----	39	105
Sandstone, sandy, with streaks of clay -----	23	128
Sand, hard and white, and boulders, small -----	12	140
Sand, coarse, and boulders, small -----	16	156
Clay, hard and dry, with streaks of sandstone -----	6	162
Sand, hard and white -----	8	170
Sand, coarse and hard -----	8	178
Clay, hard, and boulders, small -----	4	182
Sand, hard, with streaks of clay -----	16	198
Clay, sandy, and boulders, with streaks of sandstone -----	25	223
Sandstone, with streaks of boulder -----	38	261
Sandstone, with streaks of clay -----	8	269
Clay, sandy -----	3	272
Clay, sandy and sandstone -----	31	303
Sand, hard and white, with streaks of sandy clay -----	9	312
Clay, hard and sandy -----	8	320
Sand and sandstone -----	4	324
Clay, sandy, and boulders -----	22	346
Sand, hard with rock ledges -----	4	350
Clay, hard and dry -----	11	361
Clay, sandy, and boulders -----	19	380
Sand, packed, and clay, sandy with some boulders -----	33	413
Sand, packed, and clay, blue -----	7	420
Sand, coarse, and boulders -----	4	424
Sand, packed and boulders -----	12	436
Clay, sandy, and boulders -----	14	450
Sandstone and clay, hard -----	10	460
Sand, hard, and clay, sandy -----	11	471
Clay and sand -----	21	492
Clay and boulders -----	26	518
Clay, with sand streaks -----	15	533
Sand and clay -----	8	541
Sand, with clay streaks -----	7	548
Sand -----	12	560
Gravel, coarse, and sand -----	15	575
Clay, hard and dry -----	35	610
Sand and clay -----	10	620
Sand and boulders -----	8	628
Clay -----	3	631
Sand, with clay streaks -----	9	640
Clay -----	4	644

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

10S/6E-21M1. 16-inch casing. Altitude about 634 ft.

Surface sand -----	20	20	Clay, sandy, with		
Sand, packed, and			hard streaks -----	24	335
"hardpan" -----	40	60	Clay -----	16	351
Silt with sandstone			Sandstone and sand,		
ledges -----	15	75	packed -----	63	414
Sand, coarse -----	10	85	Clay, sandy -----	18	432
Sand, packed, and			Clay, sandy, with		
boulders, small ---	30	115	hard streaks -----	28	460
Sand, packed, and			Clay, sandy, with		
clay, dry -----	25	140	streaks of boulder	20	480
Sand, coarse, and			Clay, sandy, with		
boulders -----	15	155	streaks of		
Sand, packed -----	25	180	sandstone -----	35	515
Clay, boulders, and			Clay, sandy, with		
sand -----	30	210	hard streaks -----	46	561
Sand, packed, and			Clay, sticky -----	14	575
clay, sandy -----	35	245	Clay, sand, and		
Sand, clay, and			boulders, small --	26	601
boulders, small ---	22	267	Sand -----	8	609
Sand, packed, and			Clay, sandy -----	9	618
boulders -----	27	294	Sand and boulders --	22	640
Sand, packed, and clay	17	311	Clay -----	5	645

10S/6E-21N1. 16-inch casing. Altitude about 625 ft.

Surface sand -----	20	20	Clay -----	10	552
Clay, sandy -----	70	90	Sand, coarse -----	18	570
Sand, coarse -----	66	156	Sand, coarse, with		
Sand, coarse, and			streaks of clay --	68	638
gravel -----	22	178	Sand, coarse -----	47	685
Clay, sandy -----	20	198	Sand, coarse, with		
Sand, with streaks			streaks of clay --	52	737
of clay -----	32	230	Clay -----	14	751
Clay -----	52	282	Sand, coarse -----	31	782
Sand, coarse -----	4	286	Clay -----	18	800
Clay, with streaks			Sand, coarse, with		
of sand -----	59	345	streaks of clay --	33	833
Sand, coarse, with			Clay -----	32	865
streaks of clay ---	71	416	Sand, coarse, and		
Clay -----	96	512	gravel -----	35	900
Sand, coarse -----	30	542			

	Thickness Depth (feet) (feet)		Thickness Depth (feet) (feet)	
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10S/6E-22A1. Drilled by Claude E. Kelley. 14-inch casing 0-264 ft, 12-inch casing 264-648 ft, and 10-inch casing 648-912 ft; perforated 264-912 ft. Altitude about 620 ft.

Surface sand, with streaks of clay and fine gravel --	150	150	Sand, rough and hard -----	109	584
Sand with boulders, rough, hard -----	103	253	Clay -----	18	602
Clay -----	14	267	Sand, coarse and hard -----	153	755
Sand -----	78	345	Clay -----	13	768
Clay -----	12	357	Sand with rough spots -----	78	846
Sand -----	103	460	Clay -----	13	859
Clay -----	15	475	Sand, rough and hard	53	912

10S/6E-22A2. Drilled by Claude E. Kelley. 14-inch casing 0-260 ft, 12-inch casing 260-692 ft, and 10-inch casing 692-908 ft; perforated 260-908 ft. Altitude about 615 ft.

Surface sand, with streaks of clay and fine gravel --	212	212	Clay -----	41	501
Clay -----	8	220	Sand, coarse -----	14	515
Sand -----	18	238	Clay -----	13	528
Clay -----	18	256	Gravel, fine -----	108	636
Sand -----	31	287	Clay -----	22	658
Clay -----	25	312	Sand, coarse, with streaks of clay --	172	830
Sand, with streaks of clay -----	148	460	Clay -----	21	851
			Gravel -----	57	908

10S/6E-22B2. Drilled by Claude E. Kelley. 14-inch casing 0-219 ft, 12-inch casing 219-630 ft, and 10-inch casing 630-750 ft; perforated 219-627 ft and 630-750 ft. Altitude about 620 ft.

Sand, with streaks of clay -----	254	254	Sand -----	146	633
Clay -----	13	267	Clay -----	22	655
Sand, fine -----	16	283	Gravel, coarse, with streaks of sand --	36	691
Clay -----	27	310	Clay -----	17	708
Sand, with streaks of clay -----	161	471	Gravel, coarse, with streaks of sand --	42	750
Sand -----	16	487			

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

10S/6E-22B4. Drilled by Claude E. Kelley. 14-inch casing 0-219 ft, 12-inch casing 219-603 ft, and 10-inch casing 603-770 ft; perforated 209-603 ft and 605-770 ft. Altitude about 620 ft.

Surface sand, with streaks of clay ---	191	191	Clay -----	19	608
Gravel, fine, and sand, coarse -----	42	233	Sand and gravel, fine -----	19	627
Clay -----	25	258	Sand, with streaks of clay -----	23	650
Sand, fine and silty -----	13	271	Sand and gravel, fine -----	59	709
Sand, with streaks of clay -----	165	436	Clay -----	19	728
Sand and gravel, fine	26	462	Sand and gravel ---	38	766
Clay -----	16	478	Clay -----	4	770
Sand and gravel, fine	111	589			

10S/6E-22D1. Drilled by Pacific Coast Drilling Co. 16-inch casing 0-735 ft; perforated 210-735 ft. Altitude about 615 ft.

Surface soil -----	34	34	Sand and gravel ---	50	525
Sand, coarse -----	56	90	Clay -----	25	550
Sand, medium -----	117	207	Clay, with streaks of sand, coarse --	85	635
Sand, coarse, with streaks of clay ---	68	275	Sand, coarse -----	13	648
Sand, coarse, and gravel -----	160	435	Gravel -----	9	657
Sand, coarse -----	15	450	Clay -----	53	710
Sand, fine -----	25	475	Clay, with streaks of sand, coarse --	25	735

10S/6E-23B1. Drilled by Claude E. Kelley. 14-inch casing 0-264 ft, 12-inch casing 264-672 ft, and 10-inch casing 672-908 ft; perforated 264-672 ft and 675-908 ft. Altitude about 600 ft.

Surface sand, with streaks of clay, and gravel, fine -	192	192	Sand, with streaks of clay -----	64	300
Sand, coarse -----	18	210	Clay -----	17	317
Clay -----	26	236	Gravel, fine -----	22	339
			Clay -----	31	370

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

10S/6E-23B1--Continued

Sand and gravel, fine	28	398	Sand, tight and hard, with streaks of clay -----	252	790
Clay -----	18	416	Gravel with boulders	24	814
Sand, tight -----	31	447	Clay -----	19	833
Clay -----	19	466	Boulders -----	75	908
Sand and boulders ---	49	515			
Clay -----	23	538			

10S/6E-23C2. Drilled by Claude E. Kelley. 14-inch casing 0-264 ft, 12-inch casing 264-672 ft, and 10-inch casing 672-888 ft; perforated 267-888 ft. Altitude about 610 ft.

Surface sand, with streaks of clay, and gravel, fine ---	216	216	Clay -----	29	567
Sand, with streaks of clay -----	109	325	Sand, with streaks of clay -----	104	671
Shale, sandy -----	55	380	Gravel, fine -----	19	690
Sand, coarse -----	16	396	Clay, with streaks of sand -----	58	748
Clay -----	29	425	Sand, coarse -----	34	782
Gravel, fine -----	46	471	Clay, with streaks of sand -----	63	845
Clay -----	18	489	Gravel, fine and rough -----	43	888
Sand, coarse -----	49	538			

10S/6E-23M1. Drilled by Claude E. Kelley. 14-inch casing 0-264 ft, 12-inch casing 264-648 ft, and 10-inch casing 648-912 ft; perforated 264-912 ft. Altitude about 600 ft.

Surface sand, with streaks of clay ---	97	97	Clay -----	22	558
Sand, with streaks of gravel, fine --	68	165	Sand -----	138	696
Clay -----	13	178	Clay -----	34	730
Sand -----	67	245	Sand, hard and rough -----	79	809
Clay -----	20	265	Clay -----	22	831
Sand, with streaks of clay -----	271	536	Sand and gravel, fine -----	81	912

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

10S/6E-23M2. Drilled by Claude E. Kelley. 14-inch casing 0-264 ft, 12-inch casing 264-648 ft, and 10-inch casing 648-912 ft; perforated 264-912 ft. Altitude about 600 ft.

Surface sand and clay -----	95	95	Clay -----	20	560
Sand and gravel -----	73	168	Sand (rough at 670)	145	705
Clay -----	12	180	Clay -----	18	723
Sand -----	63	243	Sand and boulders (rough) -----	82	805
Clay -----	23	266	Clay -----	23	828
Sand, with small streaks of clay ---	274	540	Sand and gravel (rough) -----	84	912

10S/6E-24C1. Drilled by W. A. Borden. 12-inch casing. Altitude about 610 ft.

Soil and sand -----	6	6	Conglomerate, hard -	2	114
Sand and gravel, dry	34	40	Sand, with some rocks -----	18	132
Sand, mud, and clay -	22	62	"Quicksand" and rocks -----	8	140
Clay, yellow, and sand -----	10	72	Gravel, with some sand -----	10	150
Sand and rocks, hard	8	80	Bedrock at bottom		
Sand, dry -----	32	112			

10S/6E-25G1. 14-inch casing 0-150 ft, 12-inch casing 150-318 ft, and 10-inch casing 318-516 ft; perforated 150-516 ft. Altitude about 565 ft.

Silt and sand -----	108	108	Sand, fine -----	20	360
Sand and gravel -----	62	170	Silt and sand -----	35	395
Sand with clay streaks -----	30	200	Sand and gravel -----	85	480
Sand and gravel -----	30	230	Sand and gravel - some clay and rock	30	510
Clay, silt, and some sand -----	10	240	Sand, clay, and gravel, with a few rocks -----	10	520
Clay and silt -----	40	280			
Sand, fine, and clay	10	290			
Clay, silt, and some sand -----	50	340			

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

10S/6E-28B1. 16-inch casing. Altitude about 600 ft.

Top soil -----	12	12	Sand, hard and		
Sand and gravel ----	15	27	white, and boulders	23	428
Clay, yellow -----	9	36	Clay, sandy -----	4	432
Sand -----	4	40	Sand, coarse, and		
Sand and gravel ----	14	54	boulders -----	15	447
Clay, yellow -----	6	60	Clay, brown -----	10	457
Sand and gravel ----	5	65	Sand, coarse, and		
Clay, yellow -----	4	69	boulders -----	17	474
Sand with a few			Clay -----	10	484
boulders -----	15	84	Sand and boulders --	32	516
Clay with sandstone			Clay, sandy -----	7	523
ledges -----	6	90	Sand -----	8	531
Sand with a few			Clay -----	6	537
boulders -----	6	96	Sand and boulders --	9	546
Clay, sandy with			Clay -----	7	553
sandstone ledges --	4	100	Sand and boulders --	9	562
Sand, coarse -----	12	112	Clay -----	6	568
Clay with sand			Sand and boulders --	26	594
streaks -----	6	118	Clay -----	8	602
Sand, coarse, and			Sand -----	18	620
boulders -----	16	134	Clay, sandy -----	17	637
Clay, sandy -----	5	139	Sand and boulders --	26	663
Sand, coarse, and			Clay, sandy -----	3	666
boulders -----	16	155	Sand and boulders --	11	677
Clay, sandy -----	7	162	Clay, sandy -----	3	680
Sand and boulders ---	23	185	Sand and boulders --	20	700
Clay -----	4	189	Clay, sandy -----	3	703
Sand and boulders ---	76	265	Sand and boulders --	26	729
Clay -----	7	272	Clay, sandy -----	2	731
Sand and boulders ---	8	280	Sand -----	20	751
Clay, yellow -----	17	297	Sand with a few		
Sand and boulders ---	4	301	boulders -----	15	766
Clay, yellow -----	13	314	Clay -----	2	768
Sand, fine and hard -	29	343	Sand with a few		
Sand, coarse, and			boulders -----	6	774
boulders -----	13	356	Clay -----	2	776
Clay, yellow -----	7	363	Sand and boulders --	20	796
Sand, coarse, and			Clay, soft and sandy	4	800
boulders -----	7	370	Sand and boulders --	23	823
Sand, fine, and			Clay, soft and yellow	4	827
boulders -----	27	397	Sand and boulders --	13	840
Clay, sandy -----	8	405			

			Thickness Depth			Thickness Depth		
			(feet)	(feet)	(feet)	(feet)	(feet)	(feet)
10S/6E-28B1--Continued								
Clay, soft and yellow -----	3	843	Sand and boulders --	6	887			
Sand and boulders ---	14	857	Clay, sticky -----	6	893			
Clay, soft and yellow -----	3	860	Sand and boulders --	7	900			
Sand and boulders ---	17	877	Clay, sandy -----	8	908			
Clay, soft and yellow -----	4	881	Clay, hard and brown -----	7	915			

10S/6E-28D1. 16-inch casing. Altitude about 611 ft.

Surface sand -----	15	15	Sand and boulders --	5	333			
Sand, packed -----	35	50	Clay, sandy, and sand -----	6	339			
Sandstone -----	10	60	Clay, hard -----	6	345			
Sandstone and clay -	16	76	Clay, sandy -----	10	355			
Sandstone, with streaks of clay and sand -----	8	84	Sand and sandstone -	6	361			
Clay -----	8	92	Clay, sandy -----	19	380			
Sand, packed with sandstone streaks	43	135	Clay, sandy, with streaks of sand --	34	414			
Sand and boulders --	14	149	Sand -----	16	430			
Sandstone, sand, and boulders ----	15	164	Clay, sandy -----	15	445			
Sand, coarse -----	15	179	Sand, with streaks of clay -----	16	461			
Sand and boulders --	8	187	Clay, sandy -----	19	480			
Sand -----	9	196	Sand and boulders --	10	490			
Clay, sandy -----	14	210	Clay, sticky -----	24	514			
Sand and sandstone -	12	222	Sand, coarse -----	4	518			
Clay, sandy, and sandstone -----	39	261	Sand, with streaks of clay -----	10	528			
Sand, with streaks of clay -----	26	287	Clay -----	7	535			
Clay, sticky, with streaks of sand --	8	295	Sand -----	3	538			
Clay, sticky -----	5	300	Clay -----	6	544			
Clay, sandy, with streaks of sand --	10	310	Clay, sticky -----	6	550			
Sand, with streaks of clay -----	4	314	Sand -----	5	555			
Clay, hard -----	14	328	Clay, sandy -----	8	563			
			Clay, sandy, and boulders -----	17	580			
			Clay, sticky, and boulders -----	20	600			

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

10S/6E-28D1--Continued

Clay, hard and dry, and boulders -----	8	608	Sand -----	4	624
Sand and boulders ---	8	616	Clay, sticky -----	4	628
Clay, sandy -----	4	620	Sand -----	8	636
			Clay, sticky -----	8	644

10S/6E-29B1. 16-inch casing. Altitude about 650 ft.

Top sand -----	12	12	Clay, sticky -----	5	351
Sand, coarse -----	8	20	Clay, hard and dry -	12	363
Sand with a few boulders -----	5	25	Sand -----	15	378
Clay, sandy -----	12	37	Clay -----	6	384
Sand -----	13	50	Sand and boulders --	37	421
Sand, coarse, and boulders -----	15	65	Clay, soft -----	5	426
Sand and clay -----	10	75	Sand -----	10	436
Sandstone -----	2	77	Sand and boulders --	20	456
Sand and boulders ---	8	85	Clay -----	6	462
Sand, coarse -----	25	110	Sand, boulders, and sandstone -----	39	501
Sand and boulders ---	28	138	Clay -----	13	514
Clay, sandy -----	8	146	Sand and boulders --	16	530
Sand, with some boulders -----	34	180	Clay, hard and sandy -----	12	542
Clay, sandy -----	10	190	Sand and boulders, with sandstone ledges -----	15	557
Sand -----	15	205	Clay -----	5	562
Clay, sandy -----	7	212	Sand and boulders --	10	572
Sand -----	13	225	Clay -----	15	587
Clay, hard -----	5	230	Sand, with a few boulders -----	12	599
Sand, coarse -----	16	246	Clay, sandy -----	6	605
Clay, soft -----	11	257	Sand, coarse -----	8	613
Sand -----	8	265	Clay -----	6	619
Clay -----	5	270	Sand and boulders --	17	636
Sand and boulders ----	6	276	Clay, sandy -----	6	642
Clay -----	4	280	Sand, coarse -----	14	656
Clay, blue -----	10	290	Clay, hard and sticky -----	6	662
Sand and sandstone --	28	318			
Clay, hard -----	16	334			
Sand, coarse -----	5	339			
Clay, sandy, and sandstone -----	7	346			

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

10S/6E-33D1. Drilled by Pacific Coast Drilling Co. 16-inch casing, 0-500 ft; perforated 100-317 ft, 337-409 ft, and 429-500 ft. Altitude about 576 ft.

Surface soil -----	8	8	Sand and clay -----	37	431
Sand -----	40	48	Sand, with streaks		
Clay -----	3	51	of clay -----	49	480
Sand, with streaks			Sand, packed -----	17	497
of clay -----	316	367	Clay -----	3	500
Sand and boulders ---	27	394			

10S/6E-34F1. Drilled by Claude E. Kelley. 14-, 12-, and 10-inch casing; perforated 123-438 ft. Altitude about 550 ft.

"Surface" -----	60	60	Gravel, coarse -----	16	259
Gravel -----	30	90	Clay -----	24	283
Clay -----	30	120	Sand -----	23	306
Gravel, fine and			Clay, sticky -----	12	318
sand, coarse -----	3	123	Gravel, coarse -----	16	334
Clay -----	41	164	Clay -----	13	347
Sand, coarse -----	8	172	Sand, coarse -----	21	368
Clay -----	8	180	Clay -----	19	387
Gravel -----	6	186	Gravel -----	15	402
Clay -----	22	208	Clay -----	12	414
Gravel, fine -----	6	214	Gravel -----	22	436
Clay -----	29	243	Clay -----	2	438

10S/6E-34H1. Drilled by Claude E. Kelley. 14-inch casing 0-120 ft, 12-inch casing 120-264 ft, and 10-inch casing 264-465 ft; perforated 123-462 ft. Altitude about 530 ft.

Surface sand and			Clay -----	25	367
gravel -----	121	121	Clay, sandy -----	22	389
Clay, with streaks of			Clay -----	8	397
gravel and sand ---	93	214	Gravel -----	17	414
Clay, with small			Clay -----	20	434
streaks of coarse			Clay, with streaks		
sand and fine			of gravel -----	22	456
gravel -----	82	296	Clay -----	9	465
Gravel -----	46	342			

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

10S/6E-36Q1. Drilled by W.A. Borden. 10-inch casing. Altitude about 525 ft.

Surface soil -----	9	9	Clay, yellow -----	2	118
Sand and clay -----	5	14	"Quicksand," sloppy and blue -----	54	172
Clay -----	6	20	Clay, gray -----	4	176
"Quicksand" -----	22	42	"Quicksand," blue --	5	181
Clay and sand, sloppy first water at 42 ft -----	26	68	Clay, tough and blue "Quicksand," fine and blue -----	22	203
Clay, hard and yellow -----	3	71	Shale, broken and clay -----	98	301
Sand, fine -----	18	89	Clay, brown -----	11	312
Clay, soft -----	10	99	Clay, brown -----	12	324
Clay, yellow -----	5	104	Gravel, $\frac{3}{4}$ -inch to $2\frac{1}{2}$ -inch, with very little sand -----	32	356
Clay, gray -----	4	108			
"Quicksand," blue ---	8	116			

10S/7E-30F1. Drilled by Claude E. Kelley. 14-inch casing 0-146 ft, 12-inch casing 146-216 ft, and 10-inch casing 216-560 ft; perforated 146-560 ft. Altitude about 610 ft.

Surface sand and clay -----	143	143	Sand, coarse -----	11	328
Gravel -----	25	168	Clay, with streaks of soft sand ----	34	362
Clay, with streaks of soft sand ----	36	204	Gravel -----	11	373
Gravel -----	16	220	Clay, with streaks of sand -----	45	418
Clay -----	22	242	Gravel -----	10	428
Gravel and boulders -	20	262	Sand, coarse -----	70	498
Clay -----	27	289	Gravel -----	18	516
Gravel -----	13	302	Clay, sandy -----	12	528
Clay -----	15	317	Gravel, coarse ----	32	560

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

11S/6E-1C1. Drilled by Mann Bros. Drilling Co. 14-inch casing 0-420 ft; perforated 123-420 ft. Altitude about 520 ft.

"Surface" -----	56	56	Sand, fine, with		
Sand, medium-fine			streaks of clay --	16	270
and fine -----	46	102	Clay and sand, fine	20	290
Sand, tight and fine	18	120	Clay, sticky -----	22	312
Sand, medium and			Sand, medium and		
fine -----	18	138	medium-coarse ----	38	350
Sand, medium -----	26	164	Sand, medium and		
"Quicksand," medium			fine -----	20	370
and fine -----	26	190	Sand, medium and		
Clay -----	28	218	medium-coarse ----	10	380
Sand, medium and			Sand, medium-coarse		
fine -----	12	230	with rock -----	45	425
Sand, medium and					
medium-coarse ----	24	254			

11S/6E-2C3. 16-inch casing 0-390 ft and 7-inch casing 390-660 ft; perforated at 70, 396, 420, 486, and 493 ft. Altitude about 520 ft.

Surface soil -----	63	63	Sand and clay -----	35	370
Gravel -----	7	70	Clay -----	16	386
Clay, soft and			Sand, with gravel --	4	390
yellow -----	72	142	Clay -----	26	416
Clay, hard and			Gravel -----	4	420
yellow -----	38	180	Clay -----	45	465
Clay, hard and brown,			Sand, coarse -----	21	486
with graphite ----	45	225	Gravel -----	7	493
Sand and clay -----	15	240	Gravel, hard-packed	21	514
Clay, brown -----	27	267	Shale, blue -----	98	612
Clay -----	68	335	Clay with gravel ---	48	660

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

11S/6E-3C1. Drilled by Mann Bros. Drilling Co. 14-inch casing
0-420 ft; perforated 120-420 ft. Altitude about 525 ft.

Surface silt and sand with clay ----	85	85	Sand, medium-fine and medium -----	62	266
Sand, medium-fine ---	29	114	Sand, medium-coarse and medium -----	12	278
Clay -----	4	118	Sand, medium -----	12	290
Sand, medium and medium-fine -----	16	134	Silt, fine -----	15	305
Sand, medium -----	19	153	Sand, fine and loose	15	320
Clay and sand, fine -	5	158	Sand, medium-fine --	40	360
Sand, medium-coarse and medium -----	7	165	Sand, medium and medium-coarse ----	20	380
Sand, medium and medium-fine -----	15	180	Clay and sand, fine	6	386
Sand, medium -----	13	193	Sand, medium and medium-coarse ----	59	445
Sand, fine, with streaks of clay ---	11	204			

11S/6E-3M1. Drilled by W. A. Borden. 10-inch casing; perforated
89-97 ft. Altitude about 520 ft.

Soil and silt -----	8	8	Sand, yellow and packed -----	19	71
Sand -----	4	12	Clay and sand mixed with cemented shale -----	7	78
Sand and clay -----	15	27	Clay, yellow -----	2	80
Clay, soft and yellow -----	1	28	Shale and sand -----	9	89
Shale, cemented -----	1	29	Sand and gravel, fine -----	8	97
Gravel, fine, and sand -----	12	41	Sand and clay, hard	8	105
Sand, hard -----	6	47	Clay, hard and yellow, and sand --	2	107
Clay, yellow -----	5	52			

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

11S/6E-3M3. Drilled by W. A. Borden. 10-inch casing; perforated 31-42 ft and 69-75 ft. Altitude about 520 ft.

Soil -----	7	7	Clay, yellow -----	27	69
Sand -----	3	10	Sand -----	6	75
Clay -----	5	15	Clay -----	9	84
Sand -----	14	29	Sand -----	3	87
Sand, sloppy -----	2	31	Clay, very tough		
Sand -----	7	38	and gray -----	18	105
Gravel, fine, and					
shale -----	4	42			

11S/6E-3N2. Drilled by W. A. Borden. 10-inch casing. Altitude about 518 ft.

Soil -----	7	7	Clay, sloppy -----	15	60
Sand, dry -----	13	20	Clay and sand -----	15	75
Clay and sand -----	12	32	Sand, hard -----	12	87
Clay and shale -----	3	35	Clay and sand -----	23	110
Clay and sand -----	2	37	Sand and shale -----	4	114
Sand and clay, fine -	8	45	Clay, hard and		
			yellow -----	6	120

11S/6E-3N4. Drilled by W. A. Borden. 10-inch casing. Altitude about 520 ft.

Soil -----	8	8	Clay, gray -----	13	60
Sand -----	1	9	Sand, fine -----	5	65
Clay and silt -----	18	27	Sand and shale -----	5	70
Sand -----	3	30	Clay, hard and sandy	30	100
Shale and clay -----	9	39	Clay, hard, and sand	5	105
Gravel, fine, and					
shale -----	8	47			

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

11S/6E-4B1. Drilled by W. A. Borden. 10-inch casing. Altitude about 540 ft.

Soil -----	7	7	Sand and clay -----	28	78
Sand and clay -----	21	28	Sand and gravel,		
Shale -----	3	31	fine -----	19	97
Sand -----	9	40	Mud, sloppy, and sand	13	110
Clay -----	6	46	Sand -----	1	111
Gravel, fine -----	4	50	Clay -----	7	118

11S/6E-4D1. Drilled by W. A. Borden. 12-inch casing; perforated 69-71 ft, 102-106 ft, 147-149 ft, 263-267 ft, 269-270 ft, 288-291 ft, and 325-347 ft. Altitude about 560 ft.

Surface soil -----	8	8	Sand, fine -----	3	214
Sand -----	12	20	Clay and sand -----	5	219
Gravel, dry -----	3	23	Clay, brown -----	1	220
Sand, hard -----	23	46	Clay, blue -----	4	224
Sand and clay, hard -	5	51	Sand, hard and blue	6	230
Sand, fine -----	2	53	Sand, hard, dry, and		
Clay, yellow, and sand	4	57	yellow -----	8	238
Clay, yellow -----	12	69	Clay, blue -----	4	242
Gravel, fine -----	2	71	Clay, brown -----	2	244
Clay, yellow, and sand	31	102	Clay, light-gray ---	10	254
Gravel, fine -----	4	106	Clay, yellow and		
Clay -----	3	109	sandy -----	6	260
Sand, dirty -----	26	135	Sand, hard and		
Clay, yellow -----	1	136	yellow -----	3	263
Sand, fine -----	11	147	Gravel -----	4	267
"Cement" -----	2	149	Clay, yellow -----	1	268
Sand, hard and yellow	10	159	Sand and clay,		
Clay with sand, hard	5	164	yellow -----	1	269
Clay, light-yellow --	3	167	Gravel, fine -----	1	270
Clay, brown -----	7	174	Clay, fine and		
Sand and clay, yellow	7	181	yellow -----	2	272
Clay, yellow -----	2	183	"Quicksand," yellow	10	282
Sand, fine and dirty	8	191	Sand, hard and		
Sand, fine -----	3	194	yellow -----	6	288
Sand -----	6	200	Gravel -----	3	291
Sand, fine -----	9	209	Sand, fine -----	2	293
Clay -----	2	211	Sand, yellow -----	1	294

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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11S/6E-4D1--Continued

"Quicksand" and clay	12	306	Clay and sand with some fine gravel (size $\frac{1}{2}$ -inch diameter) -----	4	361
Sand and clay, hard and yellow -----	15	321	Clay, brown -----	17	378
Sand, coarse, with streaks of clay ---	2	323	Clay, yellow -----	2	380
Clay, hard and brown	2	325	Clay with sand, hard	4	384
Sand with clay -----	32	357			

11S/6E-10D3. Drilled by Desert Water Drilling Co. 8-inch casing. Altitude about 515 ft.

Silt -----	22	22	Clay, sandy, with streaks of fine to coarse sand ---	17	234
Clay, brown and sandy, with sand streaks, medium to coarse --	25	47	Clay, sandy; silt; and sand, fine ---	28	262
Sand, coarse, with clay streaks, brown to gray -----	22	69	Sand, fine to coarse, with streaks of clay -----	27	289
Clay, brown -----	45	114	Clay, sandy, with streaks of fine to coarse sand ---	5	294
Clay, with sand streaks, fine to coarse -----	26	140	Sand, fine to coarse	18	312
Sand, fine to coarse; gravel; with thin clay streaks -----	25	165	Clay, sandy, with streaks of fine sand -----	10	322
Sand, coarse, and gravel -----	15	180	Sand, fine to coarse	13	335
Clay, sandy, with streaks of fine sand -----	37	217	Clay -----	5	340

11S/6E-11D2. Drilled by W. A. Borden. 14-inch casing; perforated 339-346 ft, 354-365 ft, 396-406 ft, 430-446 ft, and 479-489 ft. Altitude about 500 ft.

Soil -----	8	8	Clay, yellow -----	66	90
Clay -----	10	18	Clay, blue -----	6	96
Sand and rocks -----	6	24	Sand, fine -----	2	98

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

11S/6E-11D2--Continued

Clay, blue and sand -	8	106	Clay, brown -----	13	305
Sand and pea gravel -	20	126	Clay, sandy -----	3	308
Clay, gray -----	12	138	Gravel, fine and		
Sand, sloppy and			sand -----	2	310
very muddy -----	4	142	Clay, yellow -----	14	324
Clay, blue -----	12	154	Gravel and sand,		
Clay, hard and blue -	11	165	some small rocks,		
Clay, sticky and			1 inch in diameter	11	335
blue -----	11	176	Clay -----	4	339
Sand, coarse -----	4	180	Gravel -----	7	346
Clay mixed with sand	5	185	Clay, sloppy and		
Clay, gray (like			sandy -----	6	352
talc) -----	2	187	Clay, yellow -----	2	354
Clay and sand, blue -	4	191	Gravel and sand ----	11	365
Clay, blue -----	11	202	Clay, hard and dry		
Clay, tough and brown	28	230	and sandy silt ---	13	378
Shale, dry and blue -	15	245	Silt, sand, and		
Clay, blue and dry			small gravel ----	18	396
with sand streaks -	13	258	Sand and gravel,		
Clay, sticky and			small -----	10	406
brown -----	4	262	Sand, dirty, with		
Clay, hard and brown	4	266	streaks of clay --	24	430
Clay, yellow and			Gravel, ½-inch size	16	446
sandy -----	10	276	Clay, streaks, sandy	33	479
Clay, blue -----	4	280	Sand and gravel,		
Clay, light-gray ----	4	284	fine ¼- to ½-inch		
Clay, hard and blue -	8	292	size	10	489
			Clay, hard, dry, and		
			red -----	7	496

11S/6E-15E1. Drilled by James E. Wright. 10-inch casing. Altitude about 535 ft.

"Surface" -----	15	15	Clay and gravel ----	5	74
Shale -----	10	25	Sand and gravel ----	6	80
Clay -----	23	48	Sand -----	4	84
Sand and gravel ----	16	64	Clay -----	16	100
Sand, fine -----	3	67	Sand and gravel ----	44	144
Clay -----	2	69	Clay -----	8	152

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

11S/6E-15E2. Drilled by W. A. Borden. 10-inch casing; perforated 74-79 ft, 110-114 ft, and 114-117 ft. Altitude about 520 ft.

Soil and sand -----	60	60	Clay, light-gray ---	9	104
Clay, yellow -----	14	74	Sand and gravel,		
Gravel, ½- to 2-inch	5	79	3/4-inch -----	6	110
"Quicksand" -----	10	89	Sand, fine -----	4	114
Sand, dirty, and mud -	6	95	Clay, dark brown ---	3	117

11S/6E-15F2. Drilled by W. A. Borden. 10-inch casing; perforated 57-61 ft, 76-84 ft, and 108-110 ft. Altitude about 510 ft.

Soil -----	4	4	Sand -----	5	76
"Adobe," hard -----	2	6	Gravel, fine -----	8	84
Sand, hard and dry --	12	18	Clay, gray -----	24	108
Clay, gray and			Gravel -----	2	110
cemented -----	30	48	Shale, hard -----	2	112
Clay, tough and brown	4	52	"Hardpan" and sand -	2	114
Sand, dry and hard --	5	57	Gravel, fine -----	6	120
Gravel, fine -----	4	61	Clay -----	2	122
Shale, hard and					
yellow, and dirt ---	10	71			

11S/6E-16H1. Drilled by James E. Wright. 12-inch casing; perforated 135-205 ft, 217-270 ft, and 295-350 ft. Altitude about 540 ft.

"Surface" -----	16	16	Sand, fine -----	12	217
Shale -----	4	20	Sand and gravel ----	12	229
Silt and clay, hard -	48	68	Clay -----	4	233
Sand and gravel ----	19	87	Sand and gravel ----	32	265
Sand, fine -----	3	90	Rock and gravel ----	4	269
Clay -----	17	107	Sand, fine -----	24	293
Shale and lime -----	2	109	Rock and gravel ----	4	297
Sand, fine -----	4	113	Sand -----	6	303
Sand and gravel ----	6	119	Sand and gravel ----	18	321
Clay -----	8	127	Clay -----	2	323
Sand, fine -----	6	133	Sand and gravel ----	17	340
Sand, rock and gravel	8	141	Rock and gravel ----	10	350
Sand and gravel ----	64	205			

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

11S/6E-22A1. Drilled by W. A. Borden. 10-inch casing; perforated 70-79 ft and 90-103 ft. Altitude about 540 ft.

Soil -----	18	18	Clay, sandy, and mud	3	82
Gravel, dry -----	9	27	Clay, brown -----	1	83
Lime and hard shells	1	28	"Adobe" and sand,		
Sand and clay -----	26	54	dry -----	6	89
Clay, sandy -----	3	57	Gravel, fine -----	2	91
Sand and gravel, fine	7	64	Sand, coarse and gray,		
Clay, hard and brown	6	70	and gravel, $\frac{1}{2}$ -inch	13	104
Gravel, fine $\frac{1}{4}$ - to			"Hardpan" and gravel	10	114
$\frac{1}{2}$ -inch and sand ---	9	79	Clay and sand -----	14	128
			Clay -----	6	134

11S/6E-23D1. Drilled by W.A. Borden. 12-inch casing. Perforated 60-64 ft, 75-91 ft, and 99-119 ft. Altitude about 530 ft.

Soil and sand -----	18	18	Gravel, yellow -----	16	91
Sand, cemented -----	6	24	Sand, dirty -----	8	99
Soil, sandy -----	28	52	Gravel, gray -----	4	103
Sand, cemented -----	2	54	Gravel and sand,		
Gravel -----	1	55	gray -----	16	119
Sand, cemented -----	1	56	Talc, white and		
Gravel, gray -----	4	60	smooth -----	7	126
Gravel, dirty -----	4	64	Clay, red -----	5	131
Sand, dirty and			Lime and clay, red -	9	140
yellow -----	11	75			

11S/6E-24E1. 12-inch casing; perforated 162-164 ft. Altitude about 480 ft.

Soil and sand -----	2	2	Clay, hard, with		
"Hard pan" -----	$\frac{1}{2}$	$2\frac{1}{2}$	small amounts of		
Gravel, fine -----	$6\frac{1}{2}$	9	lime -----	14	54
Silt, fine, and sand	3	12	Sand and clay, hard		
Gravel, dry -----	10	22	and yellow -----	20	74
Clay, hard, and lime	9	31	Clay and sand, hard		
Sand, dirty -----	9	40	and dry -----	56	130

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

11S/6E-24E1--Continued

Clay, hard and red --	4	134	Clay, tough and red	10	204
Sandstone and shale, broken -----	4	138	Clay, brown -----	15	219
Clay, hard, sandy and dark yellow ---	6	144	Clay, gray and sandy	2	221
Sandstone -----	4	148	Clay, yellow and sandy -----	4	225
Clay, yellow and sandy -----	14	162	"Cement" -----	1	226
Sandstone -----	4	166	Sand, hard-packed --	3	229
Sandstone and shale -	3	167	Sand, fine -----	2	231
Sand, fine and yellow -----	12	179	Clay, soft, and sandy -----	16	247
"Quicksand," fine and very muddy ----	13	192	Clay, brown and gray	17	264
Sandstone, hard -----	2	194	Clay, hard and red -	5	269
			Clay, hard and gray	14	283
			Sand, hard, cemented, and blue -----	1	284
			Clay, brown -----	8	292

11S/7E-32Q1. Drilled by W. A. Borden. 12-inch casing; perforated 267-270 ft, 300-309 ft, and 406-418 ft. Altitude about 700 ft.

Soil -----	3	3	Shale, red -----	3	300
"Hardpan" -----	3	6	Gravel, $\frac{1}{8}$ inch ----	9	309
Sand -----	6	12	Sand, fine -----	91	400
Sand and boulders ---	117	129	Shale, brown -----	6	406
Clay and rock beds --	71	200	Gravel $\frac{1}{2}$ - to 2-inch-	12	418
No record -----	17	217	Sand and clay -----	23	441
"Quicksand" -----	43	260	Sand and gravel, $\frac{1}{4}$ - to $\frac{1}{2}$ -inch-----	9	450
Shale, red -----	7	267	Sand, sloppy -----	10	460
Sand, coarse -----	3	270	Clay, yellow -----	3	463
Sand, fine, and clay -	27	297			

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

11S/8E-33P1. Drilled by Rite Spot Drilling Co. 6-inch casing; perforated 266-376 ft and 386-436 ft. Altitude about 173 ft.

Sand and cobblestones	47	47	Sand, with some		
Sand, coarse with			clay, blue -----	10	310
some gravel, fine -	31	78	Sand, coarse -----	45	355
Sand and boulders ---	8	86	Sand, coarse, and		
Conglomerate -----	7	93	boulders -----	15	370
Sand, coarse -----	27	120	Sand -----	10	380
Sand, fine -----	99	219	Sand, coarse -----	29	409
Clay, sandy and red -	21	240	Sand, coarse, and		
Sand -----	20	260	boulders -----	11	420
Sand, coarse -----	40	300	Clay, sandy and gray	16	436

11S/9E-27E1. Altitude about 160 ft.

No record -----			324	324
Sand and gypsum, soft to hard (Imperial Formation) -----			686	1,010
No record -----			916	1,926
Sandstone and shale, with gypsum, hard -----			708	2,634
Gypsum, shale, and sandy shale, hard -----			1,283	3,917
Gypsum, sandstone, shale, and sandy shale -----			376	4,293
No record -----			169	4,462
Sandstone, hard, and pink pebbles (Split Mountain Formation) -----			8	4,470
No record -----			32	4,502
Sandstone, red, and granite pebble beds -----			5	4,507
Conglomerate, hard, composed of granite and gypsum -----			24	4,531

12S/6E-17C2. Drilled by Butler Drilling Co. 10-inch casing 0-110 ft and 8-inch casing 110-290 ft. Altitude about 1,420 ft.

Sand and decomposed			Granite -----	25	155
granite -----	77	77	Granite, broken ----	90	245
Rock -----	6	83	Granite, hard and		
Clay and decomposed			gray -----	14	259
granite -----	25	108	Granite, broken and		
Boulders, large ----	7	115	blue -----	22	281
Boulder, decomposed			Granite, soft and		
granite -----	9	124	decomposed -----	5	286
Rock, gray granite --	6	130	Granite, gray -----	4	290

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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12S/6E-18A1. Drilled by Acme Drilling Co. 12-inch casing 0-50 ft, 8-inch casing 0-125 ft; perforated 72-95 ft. Altitude about 1,450 ft.

Sand and boulders ---	55	55	Granite, decomposed	15	110
"Alluvial fill" and gravel -----	17	72	Bedrock, hard -----	15	125
Clay, sandy and pebbles -----	23	95			

12S/8E-4N2. Drilled by W. L. Kunkler. 8-inch casing. Altitude about 288 ft.

Sand and boulders ---	120	120	Silt -----	30	200
Sand and clay -----	20	140	Silt and clay -----	40	240
Rocks, small and gravel -----	30	170	Silt and rock -----	15	255
			Clay -----	10	265

12S/8E-6H1. 10-inch casing. Altitude about 380 ft.

Sand and gravel, fine	60	60	Sand, loose and coarse with "birds eye" gravel -----	2	252
Clay, brown and sandy; boulders ---	35	95	Clay, light-gray with scattered boulders -----	33	285
Sand, fine, light, and packed -----	10	105	Sand, fine and gravel	3	288
Clay, yellow -----	13	118	Clay, light-gray ---	9	297
Clay, light-brown and sandy with boulders	132	250	Clay, red -----	3	300

12S/8E-6P1. Drilled by C. C. Scott. 10-inch casing 0-314 ft; perforated 194-314 ft. Altitude about 410 ft.

Gravel, fine and boulders -----	60	60			
Sand, hard-packed -----	60	120			
Gravel, large, loosely packed -----	25	145			
Sand and gravel -----	75	220			
Boulders of decomposed granite -----	60	280			
Gravel, large and loosely packed -----	25	305			
Clay, sandy -----	9	314			

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

12S/8E-8K2. Drilled by W. L. Kunkler. 8-inch casing 0-283 ft. Altitude about 300 ft.

Sand, coarse and gravel, fine -----	113	113	Silt -----	15	245
Clay and sand -----	47	160	Clay -----	18	263
Clay, hard -----	20	180	Clay and gravel ----	12	275
Clay and sand -----	50	230	Clay, hard -----	10	285

12S/8E-9H1. Drilled by Mann Bros. Drilling Co. 6-inch casing 0-140 ft and 4-inch casing 140-174 ft; perforated 100-174 ft. Altitude about 185 ft.

Sand, coarse with boulders -----	47	47	Sand, coarse, and boulders -----	15	130
Sand, coarse -----	41	88	Boulders -----	12	142
Gravel, cemented ----	14	102	Sand, coarse, with thin streaks of clay -----	8	150
Sand, coarse -----	3	105	Sand, coarse and gravel -----	26	176
Boulders -----	7	112			
Sand, coarse -----	3	115			

12S-8E-9J2. Drilled by W. L. Kunkler. 8-inch casing 0-297 ft, open hole 297-318 ft; perforated 270-295 ft. Altitude about 180 ft.

Sand and silt -----	120	120	Sand, clean and gravel -----	25	295
Sand, fine and clay -	110	230	Silt and clay -----	23	318
Silt and sand, fine -	40	270			

12S/8E-9J3. Drilled by Fred Hanssler. 10-inch casing 0-250 ft; perforated 150-250 ft. Altitude about 190 ft.

Sand and boulders ---	55	55	Clay -----	3	193
Sand, boulders, and cobbles -----	60	115	Sand, gravel, and clay -----	34	227
Sand and gravel -----	75	190	Sand and gravel ----	23	250

Thickness Depth (feet) (feet)		Thickness Depth (feet) (feet)	
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12S/8E-10N1. Drilled by James E. Wright, Jr. 12-inch casing
0-222 ft; perforated 139-219 ft. Altitude about 156 ft.

Sand and gravel, dry	65	65		
Boulders, dry -----	7	72	Gravel, 2- to 3-inch	12 153
Sand and clay, dry --	8	80	Boulders -----	5 158
Boulders, dry -----	10	90	Sand, cemented -----	1 159
Clay, sandy -----	12	102	Gravel, 1½-inch	
Sand, dry and			and sand, coarse -	31 190
cemented -----	4	106	Sand, packed, and	
Clay and sand -----	10	116	"sea mud" -----	12 202
Rock, sand and			"Quicksand" -----	8 210
gravel -----	10	126	Sand, cemented -----	2 212
Gravel, 1½- to 2-inch	15	141	Boulders -----	10 222

12S/8E-15E1. Drilled by W. A. Borden. 10-inch casing; perforated
116-153 ft and 159-190 ft. Altitude about 160 ft.

Sand, loose -----	6	6	Gravel -----	15 141
Sand and gravel, dry	59	65	Gravel, 2- to 3-inch-	12 153
Boulders, small ----	7	72	Boulders -----	5 158
Clay, dry and sandy	8	80	"Cement" -----	1 159
Boulders, dry -----	10	90	Gravel and sand ----	31 190
Clay, sandy -----	12	102	Sand, packed, and mud	12 202
"Cemented" -----	4	106	"Quicksand" -----	8 210
Clay and sand -----	10	116	Sand, cemented -----	2 212
Rock, sand, and			Boulders -----	10 222
gravel -----	10	126		

12S/8E-15N1. Drilled by W. L. Kunkler. 8-inch casing 0-200 ft;
perforated 140-170 ft. Altitude about 135 ft.

Sand and boulders --	120	120	Rock, and gravel,	
Sand and clay -----	20	140	small -----	30 170
			Silt -----	30 200

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

12S/8E-15Z1. Drilled by Milo M. Garvin. 8-inch casing 0-150 ft. Altitude about 135 ft.

Sand and boulders ---	129	129	No record -----	21	150
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12S/8E-17Z1. Drilled by Milo M. Garvin. 8-inch casing. Altitude about 209 ft.

Soil -----	2	2	Shale, sandy and brown -----	5	125
Boulders, gray granite -----	8	10	Shale, brown and sticky -----	6	131
Sand and gravel, coarse -----	30	40	"Quicksand" -----	39	170
Conglomerate -----	13	53	Shale, blue and firm -----	10	180
Shale, red and waxy -	32	85	Gravel, all colors of quartz pebbles	22	202
Shale, brown -----	10	95			
Shale, blue -----	6	101			
Shale, brown and sticky -----	19	120			

12S/8E-25Z1. Drilled by Milo M. Garvin. 8-inch casing 0-200 ft and 6-inch casing 196-245 ft. Altitude about 50 ft.

Sand and silt -----	30	30	Sand, very fine and white -----	2	124
Clay, brown, waxy and stratified ----	45	75	Shale, sandy, and dark -----	4	128
Sand -----	1	76	Sand, brown -----	7	135
Clay -----	3	79	Sand, fine and white	13	148
Sand -----	1	80	Clay, pink and waxy	26	174
Clay -----	6	86	Conglomerate, with fossil shells ----	11	185
Clay, blue -----	1	87	Clay, pink -----	17	202
"Quicksand" with mica	12	99	Gravel -----	13	215
Clay, brown and waxy	4	103	Clay, blue, turning pink with depth --	24	239
Sand, fine -----	3	106	Gravel and sand ----	6	245
"Quicksand," heaving	11	117			
Clay, hard, sticky, and pink -----	5	122			

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

12S/8E-26Cl. Drilled by Milo M. Garvin. Altitude about 75 ft.

Gravel, small and sand, coarse to fine -----	94	94	Gravel, pea-size, multicolored -----	20	114
			Shale, red and sticky	6	120

12S/8E-27Fl. Drilled by Milo M. Garvin. 8-inch casing 0-122 ft; perforated 82-122 ft. Altitude about 100 ft.

Sand and silt -----	28	28	Boulders, granite --	43	93
Conglomerate -----	22	50	Sand and gravel ----	29	122

12S/9E-22Al. Drilled by Mann Bros. Drilling Co. 6-inch casing 0-412 ft and open hole 412-445 ft; perforated 312-412 ft. Altitude about -10 ft.

Clay, with streaks of fine sand -----	25	25	Gravel and rocks ----	13	283
Sand, coarse -----	22	47	Gravel, sand, coarse with shale -----	21	304
Sand, coarse to medium -----	22	69	Clay with gravel, large -----	12	316
Gravel with clay ----	21	90	Sand, medium to coarse -----	10	326
Sand, coarse, with streaks of clay ---	21	111	Sand, medium to coarse with clay --	17	343
Sand, coarse with gravel -----	22	133	Sand, cemented -----	4	347
Clay -----	10	143	Clay, with streaks of coarse sand ----	15	362
Sand, coarse -----	10	153	Sand, coarse with clay -----	17	379
Clay, with streaks of coarse sand ----	13	166	Clay, with streaks of coarse sand ----	11	390
Gravel -----	8	174	Clay -----	12	402
Clay -----	20	194	Clay with sand, coarse -----	43	445
Clay, with streaks of fine sand -----	23	217			
Sand, fine, with streaks of clay ---	27	244			
Clay, with streaks of coarse sand ----	26	270			

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

14S/5E-1N2. Drilled by George Putnam. 6-inch casing 0-86 ft; perforated 50-86 ft. Altitude about 2,030 ft.

Soil, silty and soft	20	20	Clay and gravel ----	6	59
Silt, with streaks of coarse sand ----	20	40	Sand and gravel ----	6	65
Sand -----	9	49	Clay, coarse and sandy, with		
Gravel -----	4	53	streaks of sand --	21	86

14S/5E-2R1. Drilled by D. C. McCorkle. 10-inch casing. Altitude about 2,040 ft.

Sand, gravel, and clay -----	35	35	Sand, gravel, and clay -----	5	132
Sand, gravel, large, and clay -----	5	40	Clay, with a little sand -----	15	147
Sand and clay -----	10	50	Shale, blue and small gravel ----	16	163
Sand, gravel, clay and boulders, small	25	75	Sandstone, gray and soft -----	7	170
Sand, gravel, and clay -----	5	80	Shale, blue and firm with small gravel	25	195
Gravel, small and sand -----	6	86	Sand and gravel, light-gray -----	45	240
Sand and silt -----	9	95	Granite, decomposed and hard -----	10	250
Sand, with a little clay -----	10	105	Sand and gravel ----	7	257
Sand, gravel, and silt -----	22	127	Granite -----	4	261

14S/6E-8E4. Altitude about 1,660 ft.

Soil -----	4	4	Sand, clay and gravel, streaked -	48	108
Sand and clay, streaked -----	46	50	Gravel -----	4	112
Gravel -----	10	60	Gravel with clay ---	9	121

	Thickness (feet)	Depth (feet)
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14S/6E-8G1. Drilled by George Putnam. 9-inch casing. Altitude about 1,640 ft.

Clay, sandy; and gravel in streaks -----	126	126
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14S/7E-34G1. Drilled by John May. Altitude about 1,020 ft.

Boulders -----	100	100
Sand -----	100	200

APPENDIX E

TABLE 5. PUMPING TESTS OF WELLS AND SPRINGS

Table 5.--Pumping tests of wells and springs

Source of data: D driller; DWR California Department of Water Resources; GS U.S. Geological Survey; O owner; P pump company.

Depth of well: The depth shown is the depth of the well or spring, in feet, reported by the person making the test.

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

Static water level: The static, or standing, water level is the reported depth to water at the time of the test. If the static water level was not made prior to the test, the pumping water level has been shown and footnoted.

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, after an extended period of pumping.

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)
9S/5E-5DS1	GS		1-18-66	200	(a)		
22FS1	GS		8- 1-65	b2	(a)		
22GS1	GS		8- 1-65	b1	(a)		
22KS1	GS		8- 1-65	b8	(a)		
9S/7E-28N2	GS	16.5	3-15-57	b35	15.57		
28N3	0	31	3-15-57	7	c15		
	0	31	7-22-65	8	c15		
10S/5E-25R1	DWR		8- 4-54	400			
36A1	GS			c40			
10S/6E-5F1	D DWR	702	10- -51	2,400 1,600	274	26	92
8A1		624	1952	1,650	256	26	63
8P1	D	648		1,220			
9E1	GS	350	6-27-52	b500	226.55		
9F1	D	783	6- 1-51	1,600	200	30	53
	D	783	6- 5-51	2,350	200	21	112
9L1	GS	694	11- 9-54	1,200			
9N1	GS	634	6-27-52	b1,500		34	44
10L1	GS		11- 9-54	b900			
10M1	D	762	6- -51	1,550	200	12	129
	D	762	6- -51	2,300	200	18	128
15D1	GS	712	6-24-52	b1,500		25	60
	0		9-24-54	1,358	203	16	
	0		6-22-65	1,492	201	14	106
15D2	DWR	700	6-24-52	b1,500		25	60
	0		6-23-65	1,231	d216		

See footnotes at end of table.

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)
10S/6E-16N1	DWR	797	1950	b1,500	200	25	60
	O		6-22-65	1,168		31	38
17C1	GS	558	6-25-52	b900	214.21	45	20
17J1	GS	612	6-25-52	b1,500	185	25	60
	O		9-21-54	970		16	61
	DWR		1-27-55	1,260		195	36
17J2	D	750	11-15-55	1,000	192	33	30
	D			1,150	192	36	32
	D			1,375	192	39	35
	D			1,550	192	43	36
	D			1,675	192	46	36
	D			1,775	192	49	36
	D			1,800	192	52	35
	P			11-13-63	1,200	194	30
	O		6-22-65	1,152	221	35	33
17K1	GS	635	6-27-52	b800			
18R1	D	630	2- 5-63	1,147	191	21	55
	D		2- 5-63	1,512	191	27	56
	D		2- 5-63	1,781	191	34	52
	O		1965	280	d201		
	GS		7-29-65	b200			
20A1	GS	668	6-25-52	b1,500	165	25	60
	O		9-23-54	1,250		33	38
20B1	GS	662	6-25-52	b1,500		25	60
21B1	GS	672	6-24-52	b1,500	192	25	60
	O		6-23-65	1,429		34	42
21B2	GS	710	11- 9-54	b2,000	180	15	40
	DWR	530	1-27-55	600			
	O		6-22-65	1,235			
21C1	GS	964	6-24-52	b1,500		25	60
21D1	GS	648	6-24-52	b1,500		25	60
21E1	GS	900	6-24-52	b1,500	145	25	60
	O		9-23-54	1,208		38	32
21F1	O		6- -65	449	169	40	11

See footnotes at end of table.

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)
10S/6E-21H1	GS	752	6-24-52	b1,500		25	60
21L1	GS	644	6-24-52	b1,500		25	60
21M1	GS	645	6-24-52	b1,500			
21N1	GS	900	6-24-52	b1,500		25	60
	O		9-23-54	1,150	145	53	22
	O		6-23-65	1,340	186	40	34
22B2	GS	750	11-18-53	b1,600	d157	40	40
22D1	D	735	8- -51	1,700	140	26	65
	D	735	8- -51	2,300	140	44	52
	P		11-13-63	1,500	151	38	39
	O		6-22-65	1,378			
23B1	GS	908	11-18-53	b1,100	100.2	50	22
23C1	D	680	10- 3-52	1,800	119		
24L1	O	350	7-23-65	200			
25G1	GS	516	6-26-52	3,000	89.02	25	120
25R1	GS	482	11- 9-54	b800	61.52		
28B1	GS	915	6-24-52	b1,500		25	60
28D1	GS	644	6-24-52	b1,500		25	60
28E1	P		4- -64	1,223	d233		
29B1	GS	662	6-25-52	b1,500		25	60
29K1	GS	599	6-25-52	b1,500		25	60
	O		9-23-54	1,540	135	20	77
29M1	GS	648	11-19-53	1,250	101.28	115	11
29N1	GS	385	11-19-53	b1,000	90.94	13	77
31D1	GS		11-17-53	b250			
32R1	D	495		250	105	7	36
	GS	495	7-30-65	b300			

See footnotes at end of table.

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)
10S/6E-33D1	DWR	500	11- 7-50	800			
33M1	GS	400	6-26-52	b800	69.83		
34D1	GS	426	6-26-52	b800			
34F1	GS	438	6-26-52	b1,000	44.03	25	40
34KL	O		6-26-52	550	31.71		
36Q1	D	356	4-11-51	b500			
10S/7E-19M1	O	418		2,800			
30F1	GS	560	6-26-52	c,2000	91	30	67
11S/4E-25KL	GS	1.5	9- 1-65	b1.5	a1.20		
29B1	GS	70	9- 3-65	b2	57.87		
29C1	GS	130	9- 3-65	b4	40		
33D1	O	137	11-23-53	c55	84.54		
33P1	GS	4.0	9- 7-65	b.25	(a)		
36BS1	GS		8-26-65	b.12	(a)		
36KL	GS	(e)	9- 1-65	b2	(a)		
36QS1	GS		8-26-65	b.05	(a)		
11S/5E-10NS1	GS	4	8-16-65	b2.25	(a)		
11ZS1	DWR		2- 2-59	b15	(a)		
15M1	GS	1.0	8-14-65	b.12	a.8		
15MS1	GS		8-14-65	b.5	(a)		
15MS4	GS		8-14-65	b.5	(a)		
16RS1	GS		8-14-65	b2	(a)		
16RS2	GS		8-14-65	b.25	(a)		
21H1	GS	3.5	8-14-65	.12	a3.3		

See footnotes at end of table.

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)
11S/5E-22C2	GS	5.5	8-14-65	b0.12	a3.60		
22C3	GS	5.0	8-14-65	.12	a4.7		
22CS1	GS	(e)	8-14-65	b1	(a)		
22CS2	GS		8-14-65	.12	(a)		
23KS1	GS		8-16-65	b3	(a)		
23NS1	GS		8-13-65	3	(a)		
11S/6E-1C1	GS DWR	420 300	11-19-53 1- 7-53	c1,200 b1,000	28.79 26	60	17
2C1	GS	335	7-31-65	c300	45.19		
3C1	0	360.0	12- 5-53	b700	c39.0	60	12
3E1	GS DWR	300	11-20-53 1953	b650 b800			
3M3	D	105		b200			
3N2	D	120		b200			
3N3	DWR	120	3-14-57	b400	20		
4B1	D	118		b300			
4M2	GS	500	12- 8-53	b800	d87.6		
4P1	GS GS	613 613	12- 8-53 8-10-65	c1,500 c740			
7K1	GS		11-19-53	c125			
7K2	D GS	451 451	1956 8-11-65	350 c340	216	15	23
8H1	GS	298	12- 8-53	350	128	50	7
8H2	GS	380	8-10-65	c1,200	d108		
8J1	GS	170	12- 8-53	50	134.8		

See footnotes at end of table.

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)
11S/6E-9B1	DWR GS	400 400	1-13-65 8-10-65	b950 c380	49		
10D1	GS	214.5		30	d178		
10D2	GS GS	130	11-10-54 8- 3-65	c350 c300	11.83 33.46		
10D3	GS	340	8- 3-65	130	49.97		
10N1	GS	386.0	12- 8-53	c1,500	c54.0		
11D1	GS	687	11-16-53	c1,600	20.5	45	36
11M1	GS	78	11-30-17	10	(a)		
11M2	GS	68	11-30-17	10	(a)		
14D3	GS	148	8- 4-65	c15	32.29		
14Z1			1917	10	(a)		
15B3	GS	204	8- 5-65	c315	45.88		
15E1	O	152	1951	c200	d44.0		
15F1	GS	122	12- 8-53	c40	45.7		
15F2	D	122	1950	b350	30		
15H1	GS	100	8- 5-65	c3	d47.53		
16H1	D	350	10-14-50	c600	47		
22A1	GS	134	11-30-53	c35	49.6		
22A2	O	280	11- -53	c700	55.0		
22B1	GS	740	8- 2-65	c180			
11S/7E-7N1	GS	82.4	11-20-53	c500	28.8		
20P1	GS	368	12- 9-53	c450	d79	8	56
30G3	GS	350	7-28-65	c250	70	20	12
30K1	GS	82.3	7-28-65	c25			
32Q1	GS	463	12-10-53	c100	c188	80	12

See footnotes at end of table.

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)
12S/4E-4C1	GS	4.0	9-12-65	b0.10	a0.81		
4C2	GS		9-12-65	b1	(a)		
4CS1	GS		9- 8-65	b1	(a)		
4F1	GS	2.5	9-12-65	.12	a+.3		
5AS1	GS		9- 8-65	3	(a)		
5GS1	GS		9- 8-65	10	(a)		
24R1	GS		9- 6-65	b500	71.1		
32E2	GS	438	9-10-65	c65			
33K1	GS		9- 9-65	3	(a)		
33L1	GS	2.0	9- 9-65	.75	a2.0		
33M1	GS	(e)	9- 9-65	.10	(a)		
12S/5E-5QS1	GS	.4	8-18-65	.25	(a)		
6G1	GS	2.1	8-25-65	.12	a1.90		
16B1	GS	7.7	8-18-65	.5	6.25		
34J3	GS	105	8-19-65	c25	48.65		
34L1	GS	101	8-19-65	c11	62.25		
34P1	GS	140	8-19-65	c12	94		
34P2	GS	256	8-19-65	c7	129.60		
12S/6E-17C1	DWR	62	3-17-53	15	40		
18A1	D	125	6- 8-64	15	62	16	0.9
			6- 9-64	20	62	23	.9
			6- 9-64	25	62	22	1
	GS		8-18-65	20	61		
13B1	DWR	5	3-17-53	3	2.5		
12S/7E-4J1	P	652		38	265	31	1
		652		72	265	36	2
		652		100	265	41	2

See footnotes at end of table.

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)
12S/8E-8K2	D	283	8-17-65	c30	240		
9J3	D	250	2-10-59	120	140	4	30
		250	2-10-59	190	140	6	32
		250	2-10-59	220	140	7	31
10N1	DWR GS	219	4- 1-52	b100	100		
		222	12-11-53	b400	120		
10N2	P		3-24-52	400	116	12	33
10Q2	GS	218	8-24-65	c90	101.5		
15K1	GS	301	8-19-65	c1,000	120.11	4	250
22E1	GS		8-18-65	c675	109.36		
22K1	GS		8- 2-63	c1,300			
23F1	GS		8- 2-63	c600			
24Q1	GS	220	12-11-53	c500	85.6		
25Z1	D	215	1926	8	53		
	D	245	1926	30	53		
26C1	D	120	1925	20	87		
27B1	GS	214	12-11-53	c200	71.0		
27F1	D	122	1926	26	81		
12S/9E-22A2	GS	667	8- 2-63	1,450	d105.81	16	91
23D1	GS		12-15-53	c1,000	64.17	60	17
	GS		9-25-62	c1,400			
23D2	GS	656		c1,800			
13S/4E-2B1	GS	(e)	9- 9-65	2	(a)		
2C1	GS	(e)	9- 9-65	15	(a)		
2P1	GS	3.2	9- 7-65	(f)	a1.99		
4E1	GS	200	9-10-65	23	49.81		

See footnotes at end of table.

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)
13S/4E-5B1	0	255	1- -61	5	(a)		
	0	255	1- -61	15			
	GS	255	9-10-65	c1.5			
10ZS1	GS		9-10-65	c146	(a)		
14E1	GS	(e)	9- 8-65	b10	(a)		
14ES1	GS		9- 8-65	1	(a)		
14Q2	GS	118	9- 8-65	c100	85	43	2
14RS1	GS		8- 9-65	b.10	(a)		
13S/5E-6G1	GS	150	9- 5-65	c112	d78.29		
32RS1	GS		8-26-65	.12	(a)		
14S/5E-1FS1	GS		8-29-65	b15	(a)		
1N2	D	86	6- 6-57	20	57		
	GS		8-28-65	c6	69.96		
2J2	GS	86	8-28-65	c100	67.64		
4GS1	GS		8-29-65	.5	(a)		
12FS1	GS	(e)	9- 2-65	10	(a)		
12G1	GS	230	9- 2-65	c250	140.81		
22R1	GS	2.1	9- 3-65	b5	a.88		
22R2	GS	2.3	9- 3-65	b1	a1.34		
22R3	GS	2.1	9- 3-65	1	a1.09		
23N1	GS	1.9	9- 3-65	2	a.15		
14S/6E-8G1	GS	126	8-31-65	c10	57.99		
8G3	GS	118	8-31-65	c15	64.85		
10D1	GS	114	9- 3-65	c400	28.91	22	18
10D2	GS	200	9- 3-65	c1,300	43.22		
16F1	GS		9- 2-65	2	30.29		

See footnotes at end of table.

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)
14S/6E-18F1	GS	5.8	9- 5-65	c1.5	a5.62		
18G1	GS	90	9- 5-65	1	a+1.38		
14S/7E-18MS1	GS		9- 5-65	b5	(a)		
18P1	GS	1.5	9- 5-65	3	(a)		
18P2	GS	3.9	9- 5-65	c1	a2.70		
18P3	GS	4.5	9- 5-65	c1.5	a3.7		
18P4	GS	2.7	9- 5-65	c5	a1.76		
18P5	GS	3.1	9- 5-65	c20	a1.70		
18Q1	GS	7.7	9- 5-65	1	a6.06		
18QS1	GS		9- 6-65	b.25	(a)		
19AS1	GS		9- 5-65	.06	(a)		
25NS1	GS		4- 4-66	.2	(a)		
15S/7E-4HS1	GS		8-10-65	c10			
4M1	GS	24.2	9- 6-65	c32	14.52		
13NS1	GS	.8	4- 6-66	(f)	.6		
15S/8E-12L1	GS	360	11-26-17	2	a6		
15E1	GS		3-19-56	c2,500			
17C2	GS	87	5- 4-66	c17	64.03	7	2
17N1	GS		1959	c1,000		8	125
19G1	GS		3-19-56	c1,200			

a. Flowing.

b. Estimated.

c. Reported.

d. Pumping water level.

e. Horizontal shaft.

f. Seep, less than 1 gallon per minute.







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