STATE OF CALIFORNIA

The Resources Agency

Department of Water Resources

BULLETIN No. 91-16

WATER WELLS AND SPRINGS IN THE FREMONT VALLEY AREA

KERN COUNTY, CALIFORNIA

Prepared by
United States Department of Interior
Geological Survey

FEDERAL-STATE COOPERATIVE GROUND WATER INVESTIGATIONS

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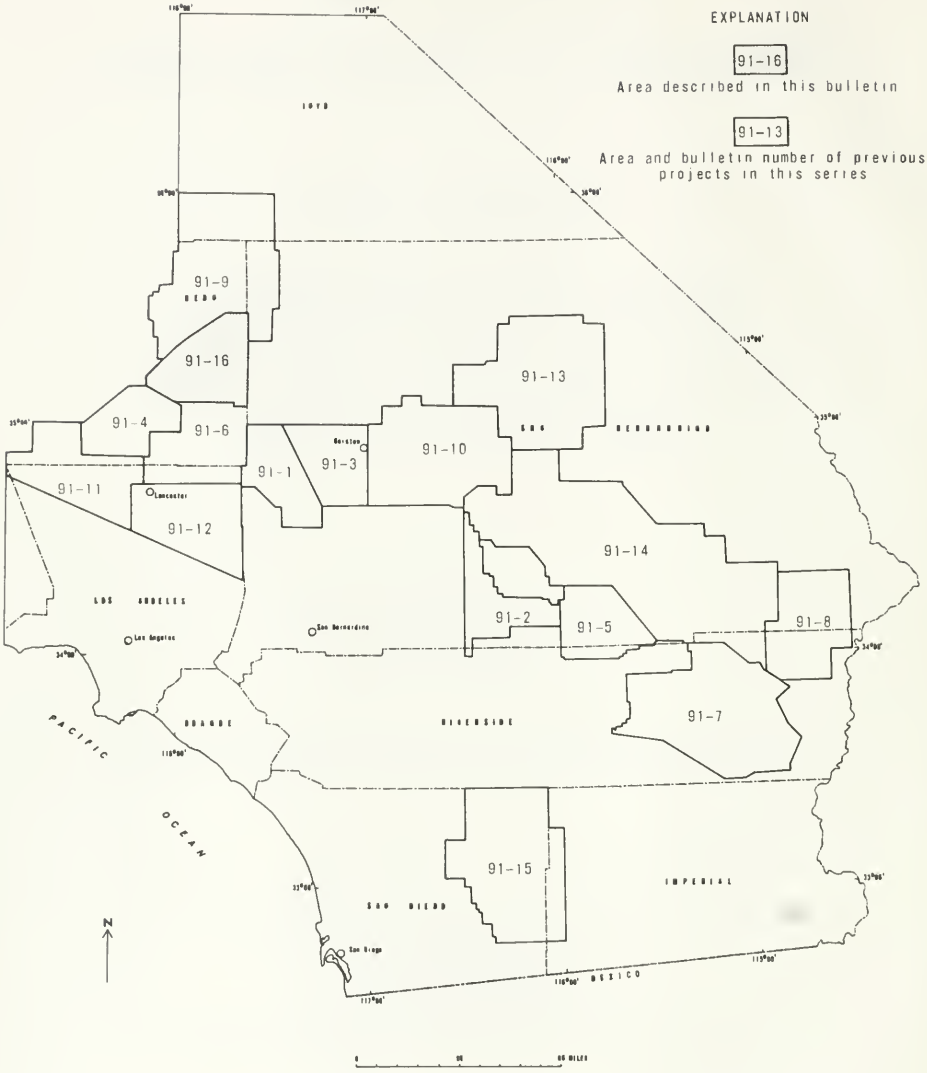


PART OF SOUTHERN CALIFORNIA SHOWING AREA DESCRIBED IN THIS AND PREVIOUS BULLETINS OF THE NO. 91 SERIES

ABSTRACT

This bulletin is one of a series on water wells and springs in southern California desert areas. The series is prepared by the U.S. Geological Survey and published by the California Department of Water Resources.

Each bulletin locates water wells and springs in a part of the southern California desert regions; describes well depth and yield, water use and level on dates observed; names the well owner; provides pumping data, including depths, rates, static water levels, drawdowns, and specific capacities; and lithologic data from drillers' well logs.

Earlier bulletins in the series are:

Bulletin No. 91-1: Data on Wells in the West Part of the Middle Mojave Valley Area, San Bernardino County, California. June 1960; 126 p. [Out of print]

91-2: Data on Water Wells and Springs in the Yucca Valley-Twentynine Palms Area, San Bernardino and Riverside Counties, California. June 1960; 164 p. [Out of print]

91-3: Data on Water Wells in the Eastern Part of the Middle Mojave Valley Area, San Bernardino County, California. August 1960; 223 p. [Out of print]

91-4: Data on Water Wells in the Willow Springs, Gloster, and Chaffee Areas, Kern County, California. September 1960; 90 p. [$1.50 a copy]

91-5: Data on Water Wells in the Dale Valley Area, San Bernardino and Riverside Counties, California. March 1961; 60 p. [$1.50 a copy]

91-6: Data on Wells in the Edwards Air Force Base Area, California. June 1962; 212 p. [$3.00 a copy]

91-7: Data on Water Wells and Springs in the Chuckwalla Valley Area, Riverside County, California. May 1963; 78 p. [Out of print]

91-8: Data on Water Wells and Springs in the Rice and Vidal Valley Areas, Riverside and San Bernardino Counties, California. May 1963; 36 p. [Out of print]

91-9: Data on Water Wells in Indian Wells Valley Area, Inyo, Kern, and San Bernardino Counties, California. May 1963; 246 p. [$4.00 a copy]

91-10: Data on Wells and Springs in the Lower Mojave Valley Area, San Bernardino County, California. December 1963; 212 p. [$3.00 a copy]

91-11: Data on Water Wells in the Western Part of the Antelope Valley Area, Los Angeles and Kern Counties, California. May 1965; 278 p. [$1.50 a copy]

91-12: Data on Water Wells in the Eastern Part of the Antelope Valley Area, Los Angeles County, California. December 1966; 448 p. [$4.75 a copy]

91-13: Water Wells and Springs in Soda, Silver, and Cronise Valleys, San Bernardino County, California. August 1967; 80 p. [$1.00 a copy]

91-14: Water Wells and Springs in Bristol, Broadwell, Cadiz, Danby, and Lavic Valleys and Vicinity, San Bernardino and Riverside Counties, California. August 1967; 80 p. [$1.50 a copy]

91-15: Water Wells and Springs in Borrego, Carrizo, and San Felipe Valley Areas, San Diego and Imperial Counties, California. January 1968; 142 p. [$2.00 a copy]

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Water Resources Division
District Office
855 Oak Grove Avenue
Menlo Park, California 94025

October 11, 1968

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 the Fremont Valley Area, Kern County, 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 generalized geology with special reference to the water-yielding deposits.

Very truly yours,

R. Stanley Lord

R. Stanley Lord
District Chief

Previous Investigations and Acknowledgments

Data on ground water in the Fremont Valley area are contained in U.S. Geological Survey reports by Thompson (1929, p. 201-223 and 289-371), by Dickey (1957), by Stone (1957), and by Dutcher (1959), and an unpublished report prepared in 1930 by Cyril Williams for the Pacific Portland Cement Co. The data on wells from these reports are included herein.

Data on the Fremont Valley area is shown on geologic maps by Dibblee (1952, 1958a, 1958b, and 1959). The generalized geology shown in this bulletin was compiled and modified from these published maps, from unpublished mapping of the Cross Mountain and the Randsburg quadrangles by T. W. Dibblee, Jr. (written commun., 1953 and 1958), and from unpublished mapping by L. C. Dutcher (written commun., 1959).

The California Department of Water Resources provided access to all pertinent information in its files. The U.S. Borax and Chemical Corp. and the M and R Sheep and Cattle Co. provided access to a large quantity of data in their files, as did many private well owners and well drillers. The cooperation and assistance given by these people and agencies contributed materially to the completeness of the data presented in this report and are most gratefully acknowledged.

Purpose and Scope of the Investigation

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

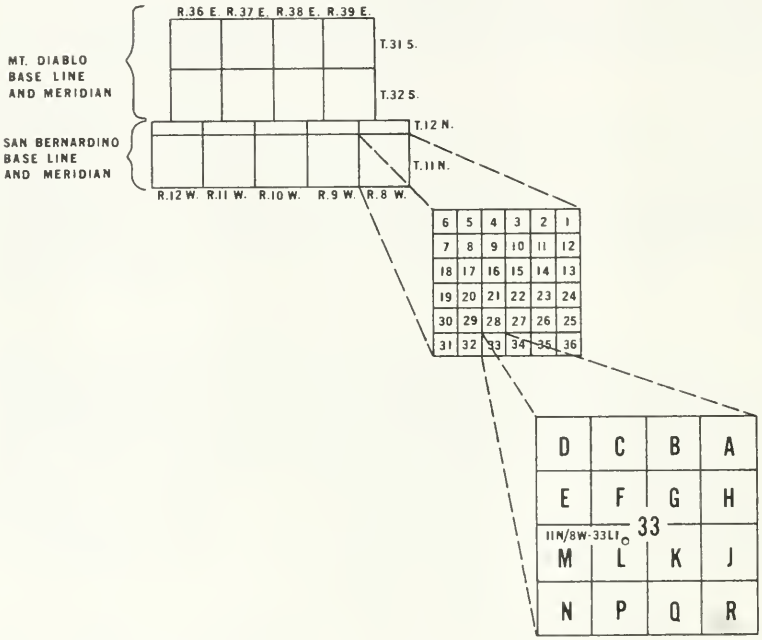
The general objective of the investigation is to collect and tabulate all available ground-water data for the individual desert basins in order to provide public agencies and the general public with data for overall ground-water investigation of the area and for planning water utilization and development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

The scope of the work includes (1) brief reconnaissance of major geologic features to determine the extent and general character of the deposits that contain ground water; (2) field examination of most water wells and springs in the area to determine their location with respect to the geographic and cultural features and the public-land net and to record well depths and sizes, types and capacities of pumping equipment, uses of the water, and other pertinent information available at the well site; (3) measurement of the depth to water below 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 done intermittently in 1966 and 1967 by the Water Resources Division of the Survey, under the general supervision of R. Stanley Lord, district chief for California, and under the immediate supervision of L. C. Dutcher, chief of the Garden Grove subdistrict office.

Well- and Spring-Numbering System

Wells and springs are numbered according to their location in the rectangular system for the subdivision of public land. For example, in the number 11N/8W-33L1, the part of the number preceding the slash indicates the township (T. 11 N.), the part between the slash and the hyphen indicates the range (R. 8 W.), the number between the hyphen and the letter indicates the section (sec. 33), 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 11N/8W-33L1 is the first well to be listed in the NE¼SW¼ sec. 33, T. 11 N., R. 8 W., San Bernardino base line and meridian as shown in the diagram below:



Where a Z has been substituted for the letter designating the 40-acre tract, the Z indicates that the well is plotted from unverified location descriptions; the indicated sites of such wells were visited, but no evidence of a well could be found. On maps most wells and springs are identified by the letter designation and final digit. Some wells show the section number as well as the letter designation and final digit. These wells were previously located correctly with relation to cultural features but were not numbered correctly because of improperly projected land net. These wells have retained their original well number so that old published well data can be used.

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: 29S/38E-27QS1.

WATER WELLS AND SPRINGS IN THE FREMONT VALLEY AREA

KERN COUNTY, CALIFORNIA

By W. R. Moyle, Jr.

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TABLES

GENERAL FEATURES

The Fremont Valley area covers about 680 square miles and includes most of Fremont Valley and the northeastern part of Antelope Valley as defined by Thompson (1929, pls. 16 and 19) and parts of the Tehachapi, El Paso, and Rand Mountains.

The area is in the southwestern part of the Mojave Desert region between long 117°35' and 118°10' W. and lat about 35°00' and 35°25' N., north and east of the town of Mojave. The eastern boundary coincides with the Kern-San Bernardino County line; the southern boundary in Antelope Valley is U.S. Highway 466 and in Fremont Valley is the Muroc fault; the western boundary is the Sierra Nevada; and the northern boundary is the El Paso Mountains.

Access to the area is by Interstate Highway 14, formerly U.S. Highway 6, U.S. Highways 466 and 395, and several paved and many unpaved roads.

The principal towns in the Fremont Valley area are California City near the south end of Fremont Valley, Randsburg near the northeast margin, and Boron near the southeast corner. Boron was named for the borate minerals mined near the town by the U.S. Borax and Chemical Corp. The borate deposit is the largest ever discovered in the United States.

On the basis of economic development, the Fremont Valley area can be divided roughly into three parts. The economy of the southern part of the area, extending from Boron and U.S. Highway 466 to Castle Butte, is based almost entirely on the mining of the borate deposits near Boron, the residential development resulting from the employment of workers at nearby Edwards Air Force Base south of U.S. Highway 466, and commerce with the travelers using the highway.

In Fremont Valley, which extends about from Castle Butte to a point several miles northeast of Koehn Lake, the economy is based almost wholly on irrigated agriculture. In 1958 roughly 8,000 acres of land was irrigated by pumping ground water at three large and several smaller ranches.

In the area near Randsburg the economy formerly was based on the mining of gold, silver, tungsten, and other metals and minerals. In recent years, however, many of the mines have closed and only limited mining is now done. In many instances the difficulty in obtaining water is great, and long pipelines have been built from the lower parts of the valley where it is possible to drill large-capacity wells to supply water to the mines and mills.

Geographically, the area consists mainly of alluvial fans and plains built out from the Sierra Nevada, and from the El Paso and Rand Mountains. Castle Butte, Desert Butte, and other isolated hills rise above the valley floor east and south of the Rosamond Hills.

The surface drainage of the area is of the closed type. Infrequent runoff reaches one or another of the small playas or reaches one or both of the larger playas, Koehn Lake, in the northeastern part of Fremont Valley, and Rogers Lake, in the northeastern part of Antelope Valley.

The Fremont Valley area is shown on all or parts of the following U.S. Geological Survey topographic quadrangle maps: Boron, Castle Butte, Cross Mountains, Kramer, Mojave, Randsburg, and Saltdale at a scale of 1:62,500.

The desert regions of California are characteristically regions of nearly barren mountain ranges and isolated hills surrounding broad valleys that are underlain by alluvial deposits. 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.

GEOLOGIC AND HYDROLOGIC FEATURES

The geologic units in the Fremont Valley area are divided into two main groups, consolidated rocks of Tertiary and pre-Tertiary age, and unconsolidated deposits of Quaternary age. The units within these groups have dissimilar water-bearing characteristics, but, in general, the younger unconsolidated deposits are more permeable than the older consolidated rocks. The unconsolidated deposits generally underlie the valleys and contain most of the ground water stored in the area. The consolidated rocks form the mountains and hills that surround the valley area and form the basement complex which underlies the unconsolidated deposits to make up the sides and bottom of the ground-water basin. The consolidated rocks, for all practical purposes, are impermeable; but, they are important because the mountains and hills receive the major part of the precipitation within the drainage area. The runoff from the mountains and hills contributes virtually all the recharge to the ground-water body contained in the unconsolidated deposits. In the following paragraphs the geologic units, shown in the geologic maps, are described from oldest to youngest with special reference to their water-bearing characteristics.

The oldest formation in the area, the basement complex of pre-Tertiary age, consists of igneous and metamorphic rocks. The basement complex is generally impermeable, except for joints and weathered zones that yield small quantities of water to springs.

The continental sedimentary rocks of Tertiary age consist of the Goler Formation (Dibblee, 1967, p. 98) composed of arkosic sandstone, clay, shale, and conglomerate; the Witnet Formation (Buwalda and Lewis, 1955, p. 147-148) composed of white rhyolitic tuff, andesite agglomerate, and tuffaceous sandstone; the Kinnick Formation, part of the Tropico Group (Dibblee, 1958a) composed of conglomerate, sandstone, clay, shale, limestone, tuff breccia, andesite breccia, and some amygdaloidal basalt in thin layers; and the Ricardo Formation (Dibblee, 1952) composed of siltstone, sandstone, limestone, clay, shale, opal-chert, and conglomerate. These units may yield small quantities of water to wells.

The volcanic rocks of Tertiary age consists of part of the Tropico Group (Dibblee, 1958a and 1958b) composed of dacite and basalt and unnamed volcanic rocks composed of rhyolite, dacite, andesite, and basalt.

The older alluvium of Pleistocene age underlies most of the valley floor. It consists mainly of poorly sorted arkosic gravel, sand, silt, and clay. The older alluvium is oxidized and generally unconsolidated, but in some places it is slightly cemented. This formation is permeable, extends below the water table, yields water freely to wells, and is the most important water-bearing unit in the area.

The older fan deposits of Pleistocene age are composed of moderately to highly indurated boulder gravel, cobble-pebble gravel, and sand that is locally cemented with calcareous cement. These deposits yield little water to wells. Lateral movement along the Garlock fault has cut these deposits and has formed conduits that control the location of some small springs. The discharge from these springs is negligible.

The basalt of Pleistocene age is composed of vesicular to dense flows. It occurs above the regional water table and does not contain water in usable quantities.

The younger alluvium of Holocene age consists mostly of gravel, sand, silt, and clay and overlies the older units beneath the central parts of the valleys. These deposits are generally above the water table except in the lower parts of the valley, where they may yield small quantities of water to shallow wells.

The younger fan deposits of Holocene age consist mostly of poorly sorted gravel, sand, and silt, and mudflows derived from nearby hills or mountains. The materials have been transported only a short distance and mainly represent slope-wash debris. Near the hills and mountains the younger fan deposits are coarse grained, but they become finer with increasing distance from the areas of active erosion. These deposits are poorly sorted and poorly permeable, are usually above the water table, and yield little water to wells.

Playa deposits of Holocene age occur principally at Koehn Lake, the lowest area in Fremont Valley, and at the base level of some minor drainage areas. They consist principally of silt and clay. Where saturated, the playa deposits yield little water to wells.

The windblown sand of Holocene age ranges in size from coarse to fine. It generally occurs in the lower parts of the valleys, and, in part, is actively drifting. The sand is above the regional water table.

Lakeshore deposits of Holocene age occur near the old shorelines of large perennial lakes which formerly existed in the lowest parts of the valleys. These deposits, which consist mainly of coarse gravel and sand with some silt and clay, are everywhere above the water table and do not yield water to wells.

The area extending from the Rand Mountains southward to the North Muroc basin is, in general, uplifted in relation to the main valley area to the north and west. Granitic rocks (bedrock), volcanic rocks, and virtually impermeable sedimentary rocks of Tertiary age crop out in many hills and in extensive areas of low relief. Many faults strike across the area, and ground water occurs in the small but locally deep depressions bounded by these geologic structures or by hills of impermeable rock.

The area includes one large ground-water basin in Fremont Valley, part of a smaller basin in Antelope Valley, centered near North Muroc north of U.S. Highway 466, and three or more minor basins or subbasins in Antelope Valley in the area east of Castle Butte and south of the Rand Mountains. The large basin in Fremont Valley extends north from Castle Butte to the Sierra Nevada and the El Paso Mountains and is contained on the northeast in the narrow depression between the El Paso and Rand Mountains.

Recharge to the ground-water basin in Fremont Valley occurs by subsurface inflow from the Chaffee area (Kunkel and Dutcher, 1960) and the North Muroc basin through the older alluvium between Desert and Castle Buttes, from runoff from the surrounding mountains and hills, and in very minor quantities by deep penetration of rain during infrequent periods of heavy precipitation.

In 1958 the water levels in wells in Fremont Valley ranged from above the land surface in the lowest part of the valley near Koehn Lake to more than 625 feet beneath the higher alluvial slopes north of the Muroc fault and more than 400 feet beneath the alluvial fans which extend into the valley from the Rand Mountains east of Koehn Lake.

In 1967 the depth to water was 100 to 150 feet in the central part of the North Muroc basin and 225 feet at the town of Boron. Between 1945 and 1958 the decline in water level near Boron was as much as 60 feet. Between 1951 and 1967 the decline in water level in the central part of the North Muroc basin ranged from 1 to 14 feet. Ground water from the North Muroc basin and from the three or more minor basins in Antelope Valley moves in the subsurface to Fremont Valley through the alluvium in the low topographic divide between Castle and Desert Buttes.

In the two areas underlain mainly by younger and older alluvium in the generally uplifted area north of the North Muroc basin and south of the Lockhart fault, the occurrence and movement of ground water are not known because of the scarcity of wells. However, data suggest that subsurface flow from the area may enter Harper Valley.

In part of Peerless Valley, north of North Muroc basin, water-level measurements indicate a water-level decline of 293 feet between 1956 and 1967. This decline is probably due to large withdrawals of ground water from storage and very little recharge.

The ground water in Fremont Valley has a moderate to very high concentration of dissolved solids. Chemical analyses of water from wells indicate that the highest concentration of dissolved solids is in excess of 100,000 mg/l (milligrams per liter) and occurs in the area near Koehn Lake. The water of best quality contains a concentration of dissolved solids of about 400 to 600 mg/l and is obtained from wells drilled through the younger alluvium and fan deposits into the older alluvium southwest of Koehn Lake.

The ground water in the North Muroc basin has a low to moderate concentration of dissolved solids. Chemical analyses of water from wells indicate that the highest concentration of dissolved solids, about 1,000 mg/l, occurs near Boron. The water of best quality comes from wells drilled near the western part of the basin, where the concentration of dissolved solids locally is less than 500 mg/l.

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TABLE 1.--*Description of wells and springs*

[Boxhead explanations are abstracted from U.S. Geological Survey "Instructions for Using the Punch-Card System for the Storage and Retrieval of Ground-Water Data"]

State well number: The wells are identified according to their location in the rectangular system for the subdivision of public land. The identification consists of the township number, north or south; the range number, east or west; and the section number. The section is further subdivided into sixteen 40-acre tracts lettered consecutively (excepting I and O), beginning with A in the northeast corner of the section and progressing in a sinusoidal manner to R in the southeast corner. Wells within the 40-acre tract are numbered sequentially. The base line and meridian are indicated by the final letter, as follows: H, Humboldt; M, Mount Diablo; S, San Bernardino.
Spring number: Springs are numbered similarly. However the letter S is added after the 40-acre tract letter to differentiate the spring from a well.

Owner or user: The apparent owner or user on the date indicated. In some cases, the local name of the well or spring is given.

Ownership:

- C County
- F Federal Government
- M City, town, or unincorporated village
- N Corporation or company, churches, lodges, and other nonprofit, nongovernment groups
- P Private
- S State agency
- W Water district.

Use of water:

- A Air conditioning
- B Bottling
- C Commercial
- D Dewatering
- E Power generation
- F Fire protection
- H Domestic
- I Irrigation
- M Medicinal
- N Industrial, including mining
- P Public supply
- R Recreation
- S Stock supply
- T Institutional
- U Unused
- V Repressurization
- W Recharge
- X Desalination, public supply
- Y Desalination, other use
- Z Other.

Use of well:

- A Anode
- D Drainage
- G Seismic hole
- H Heat reservoir
- O Observation
- P Oil or gas
- R Recharge
- T Test hole
- U Unused
- W Withdraw water
- X Waste disposal
- Z Destroyed.

Well data: In tabulation below, C, complete data; N, no data; P, partial data. Complete physical data include depth, diameter, and finish. Complete geologic data include lithology and aquifer thickness. Complete water-level data include altitude of land-surface datum, in feet above mean sea level; water level, in feet above(+) or below land-surface datum; and date of measurement. Complete yield data include rate of pumping and drawdown.

Code symbol	1	2	3	4	5	6	7	8	9	0
Physical	C	C	P	C	C	P	C	C	P	P
Geologic	C	C	P	C	C	N	C	N	P	N
Water level	C	C	C	N	N	P	P	C	C	N
Yield	C	N	C	C	N	P	C	N	N	P

Chemical analyses:

- C Complete
- G Dissolved gases
- J Conductance and chloride
- K Conductance
- L Chloride
- M Multiple (complete and one or more partials)
- P Partial
- R Radiochemical (plus partial or complete chemical)
- S Special (tritium, carbon-14, and all other special determinations)
- T Trace elements (spectrographic).

Log data:

- A Drilling-time
- B Casing-collar
- C Caliper (diameter) survey
- D Driller's
- E Electric
- F Fluid-conductivity or fluid-resistivity
- G Geologist or sample
- H Magnetic
- I Induction
- J Gamma-ray
- K Dipmeter or directional (inclinometer) survey
- L Laterolog
- M Microlog
- N Neutron
- O Microlaterolog
- P Photographic
- Q Radioactive-tracer
- R Radiation (includes both neutron and gamma-ray)
- S Sonic
- T Temperature
- U Temperature and fluid-conductivity (resistivity)
- V Fluid-velocity
- W Electric and radiation
- X Electric, radiation, caliper, and fluid-velocity
- Y Electric, radiation, and sample (or driller's)
- Z Electric, radiation, temperature, and fluid-conductivity.

Depth of well: Depth, in feet below land-surface datum, as reported by owner, driller, or others, or as measured by the Geological Survey.

Depth cased: Length of casing, in feet below land-surface datum, to the top of the first perforations.

Diameter: Inside diameter of the well, in inches; nominal inside diameter, in inches, of the innermost casing at the surface for drilled cased wells

Well finish:

- C Porous concrete
- F Gravel wall, perforated or slotted casing
- G Gravel wall, commercial screen
- H Horizontal gallery or collector
- O Open end
- P Perforated or slotted casing
- S Screen
- T Sand point
- W Walled or shored
- X Open hole in aquifer (generally cased to aquifer)
- Z Other.

Method drilled:

- A Rotary
- B Bored or augered
- C Cable-tool
- D Dug
- H Hydraulic-rotary
- J Jetted
- P Air percussion
- R Reverse-rotary
- T Trenching
- V Driven
- W Drive-wash
- Z Other.

Lift type:

- A Air
- B Bucket
- C Centrifugal
- J Jet
- L Multiple (centrifugal)
- M Multiple (turbine)
- N None
- P Piston
- R Rotary
- S Submergible
- T Turbine
- Z Other.

Power:

1 Hand

2 Natural gas, propane, or butane engine
- A 0-20 hp
- B >20-50
- C >50-100
- D>100-200
- E >200 (natural gas)

3 Gasoline engine
- F 0-5 hp
- G >5-20
- H >20-50
- J >50-100
- K >100-200
- L >200

4 Diesel engine
- M 0-50 hp
- N >50-150
- P>150-400
- Q>400-750
- R >750

5 Electric motor
- S 0-1 hp
- T >1-5
- U >5-15
- V>15-100
- W >100

6 Wind.

Altitude of lsd: Altitude of land-surface datum, in feet, above mean sea level. Land-surface datum is an arbitrary plane closely approximating land surface at the time of the first measurement and used as the plane of reference for all subsequent measurements.

Water level: Depth to water, in feet, above(+) or below land-surface datum.

Date measured: Month and year of the water-level measurement; other data given generally apply for this date.

Yield of well (or spring): Yield, in gallons per minute; drawdown, in feet.

State well number	Owner or user	Ownership	Use of water	Use of well	Well data	Chemical analyses	Log data	Depth of well (feet below lsd)	Depth cased (feet below lsd)	Diameter (inches)	Well finish	Method drilled	Year drilled	Lift type	Power	Altitude of lsd (feet)	Water level (feet below lsd)	Date measured	Yield of well: Gallons per minute	Yield of well: Drawdown (feet)
10N/07W-05D01S			U	U	R	C				8	7	C				2470	261	1-58		
10N/07W-05E01S	MORON IMP CORP	N	U	U	R					8	7	H				2495	180	1-58		
10N/07W-06A01S	MORON COMM SERV	M	P	W	3						7	7		S	S	2470	280	1-58	113	
10N/07W-06A01S	MORON COMM SERV	M	P	U	6					6	7	7	1945	S	S	2460	243	1-58	13	5
10N/07W-06A02S	MORON COMM SERV	M	P	W	1	C	D	454	353	12	7	C	1955	T	S	2460	272	1-58	30	124
10N/08W-01Z01S	MORON COMM SERV	W	U	U	6		OF	435	255			H	1966			2440	219	4-66	20	181
10N/08W-02M01S	MOJAVE C.C.MINE	N	N	W	R			510			Z	H	1954	I	V	2410	206	1-58		
10N/08W-04A01S	MRS. DUNN	P	U	Z		C		123		6				N		2355		3-60		
10N/08W-05R01S	U.S. GOVERNMENT	F	U	T			G	1715					1955	N		2330			55	
10N/08W-05R02S	U.S. GOVERNMENT	F	U	T			G	2328					1957	N		2330			57	
11N/07W-30G01S	STEUSSY	P	H	W	R	C		675	300	6	Z	C	1929	P	T	2475	310	1-58	4	
11N/07W-31E01S	MORON COMM SERV	W	U	U						10			1959	N		2440	114	5-67		
11N/07W-31J01S	ARABIAN TRAILER	P	U	U	R			500		8	Z	H	1957	S	S	2445	243	1-58		
11N/07W-31P01S	MORON COMM SERV	M	P	Z	R			0		9	7	C	1926	N		2445		1-58		
11N/07W-31P02S	MORON COMM SERV	M	U	U	0	C				R				T	T	2445		1-58		
11N/07W-31P03S	MORON COMM SERV	M	U	U	0			223		R				P	T	2445		1-58		
11N/07W-32E01S	MORON COMM SERV	M	P	W	3	C	D	502	261	10	F	H	1956	S	S	2455	241	1-58	325	48
11N/07W-32G01S	VINCENT MORGAN	P	U	U	R			232		6				N		2460	152	1-58		
11N/07W-32G02S	FRANKLIN	P	H	W	2		D	210		5		C	1954	S	S	2460	149	1-58		
11N/07W-32G03S	WILKINS	P	H	W	R			300		5		C	1946	P	T	2460		1-58		
11N/07W-32G04S	VINCENT MORGAN	P	H	W	R			400		R	F	H	1956	S	S	2465	148	1-58		
11N/07W-32G05S	W.C.PACZKOWSKI	P	H	W	R					R	F	H		S	T	2455	237	1-58		
11N/07W-32H01S	MORON DEVEL CO	M	U	U	1		D	429	253	R	F	H	1956	N		2465	160	1-58	225	120
11N/07W-32K01S	MORON COMM SERV	M	P	W	1	C	DF		200	10	F	H	1957	N		2460	147	1-58	30	
11N/07W-32M01S	MORON COMM SERV	M	U	U	0			410		6		C	1950	T	U	2450			240	140
11N/07W-32M02S	MORON COMM SERV	M	P	W	1	C	D	530	287	10	G	H	1956	S	S	2450	217	1-58	240	180
11N/07W-32N01S	GEORGE MORRISON	P	U	U	R	C		305		R				P		2470	155	1-58	7	
11N/07W-32N02S	MRS. GILL	P	H	W	3	C		454			G	H		T	T	2455	225	1-58	20	70
11N/07W-32N03S	MRS. GILL	P	H	W	3	C		400						T	T	2465	289	1-58	40	
11N/07W-32N04S	H.S.DEBORD	P	H	W	3	C		375		R			1946	P	T	2455	216	1-58	10	
11N/07W-32P01S	A.KOSTOPOULOS	P	U	U	9			220		R			1934	P	R	2465	161	1-58	5	
11N/08W-01D01S	U.S.A.RCHEM CO	N	U	Z	0			157		5		C		N		2590		1-58		
11N/08W-02M01S	U.S.A.RCHEM CO	N	U	Z	0			211				C	1948	N		2495		1-58		
11N/08W-02N01S	U.S.A.RCHEM CO	N	N	W	1	C	D	336		14		C	41	S	V	2480		1-58	230	37
11N/08W-02P01S	U.S.A.RCHEM CO	N	N	W	1	C	D	346			G	H	41	S	U	2490		1-58	75	27
11N/08W-02Z01S	U.S.A.RCHEM CO	N	U	Z	0	P	D	300				C	1926	N		2490		1-58		
11N/08W-02Z02S	U.S.A.RCHEM CO	N	U	Z	0		D	270				C		N		2480		1-58		
11N/08W-02Z03S	U.S.A.RCHEM CO	N	U	Z	0		D	352				C		N		2490		1-58		
11N/08W-02Z04S	U.S.A.RCHEM CO	N	U	Z	0		D	344				C		N		2480		1-58		
11N/08W-03C01S	U.S.A.RCHEM CO	N	U	Z	4		D	0				C	1954	N		2490		1-58	57	47
11N/08W-03E01S	U.S.A.RCHEM CO	N	U	Z	5		D	170				C	1948	N		2465		1-58		
11N/08W-03P01S	U.S.A.RCHEM CO	N	N	W	4	C	D	430		14		C	1954	S	S	2466		1-58	30	25
11N/08W-03Q01S	U.S.A.RCHEM CO	N	N	W	4	C	D		266	16	D	C	1954	S	V	2472		1-58	600	91
11N/08W-03R01S	U.S.A.RCHEM CO	N	N	W	5	C	D	500	468	12	U	C	1954	S	S	2471		1-58		
11N/08W-03Z01S	U.S.A.RCHEM CO	N	U	Z	0							C	1948	N		2500		1-58		
11N/08W-03Z02S	U.S.A.RCHEM CO	N	U	Z	5		D					C	1948	N		2500		1-58		
11N/08W-03Z03S	U.S.A.RCHEM CO	N	U	Z	5		D					C	1948	N		2472		1-58	200	
11N/08W-10P01S	U.S.A.RCHEM CO	N	U	U	2		D			10		C	1948	N		2435	140	1-58		
11N/08W-10R01S	HAROLD OGG	P	H	W	R	C		225		10		C	1954	P	R	2440	144	1-58		
11N/08W-10Z01S	U.S.A.RCHEM CO	N	U	Z	6		D					C	1948	T		2435		1-58	45	
11N/08W-11D01S	U.S.A.RCHEM CO	N	N	W	1	C	D	512		14		C	45	S	V	2474		1-58	290	24
11N/08W-11Z01S	U.S.A.RCHEM CO	N	U	U	6		D					C	1948	T		2475		1-58	145	
11N/08W-12R01S	MCGINTY	P	U	U	R					12				T		2535	226	1-58		
11N/08W-15K01S	U.S.A.RCHEM CO	N	U	U	1		D		170	14		C	1954	N		2425	159	1-58	67	36
11N/08W-16C01S	U.S.A.RCHEM CO	N	U	Z	2		D	182	0		X	C	1948	D		2420		1-58		
11N/08W-16D01S	U.S.A.RCHEM CO	N	U	Z	5		D	218	0		X	C	1948			2420		1-58		
11N/08W-17R01S	GARRETT CORP	N		W	1		D	367	142	6	F	H	1957	S	S	2395	178	1-58	1	
11N/08W-19K01S			U	Z	R			137		6		C		R		2350		1-58		
11N/08W-19L01S	U.S.A.RCHEM CO	N	U	U	1	C	D		96	12	F	H	1955			2356	144	1-58	535	38
11N/08W-20H01S	SWANSON	P	U	U	R			214		6		C	1926	D		2374	166	1-5		

State well number	Owner or user	Ownership	Use of water	Use of well	Well data	Chemical analyses	Log data	Depth of well (feet below lsd)	Depth cased (feet below lsd)	Diameter (inches)	Well finish	Method drilled	Year drilled	Lift type	Power	Altitude of lsd (feet)	Water level (feet below lsd)	Date measured	Yield of well	
																			Gallons per minute	Drawdown (feet)
11N/08W-20H02S	SWANSON	P	H	W	3	C		500		8		C		P	6	2385	172	1-58	4	
11N/08W-20H03S	V.L.WIKERT	P	H	W			D		140	8	F	C	1962	S	3	2380	173	4-67		
11N/08W-20H04S		P	H	W		C				10				S	S	2380	175	8-67		
11N/08W-22E01S			U	U	9	C				6				N		2395	170	1-58		
11N/08W-26A01S	C.J.ROYCROFT	P	H	W	2		D		281	5		C	1927	P	T	2425	200	1-58		
11N/08W-26D01S	C.J.ROYCROFT	P	U	U	9					6		C		N		2402	170	1-58		
11N/08W-26E01S	C.J.ROYCROFT	P	U	Z	8	P				6		C		N		2385		1-58		
11N/08W-26J01S	W.H.CAMPBELL	P	U	U	0	C		400		9		C		P		2410		1-58		
11N/08W-26J02S	GEORGE MCINTYRE	P	U	U	8			1400		12		C	1941	N		2407	171	1-58		
11N/08W-28A01S			U	U	8	C		175		6		C		N		2380	168	1-58		
11N/08W-29K01S	U.S.B.&CHEM CO	N	U	U	1	C	D		96	12	F	H	1955	N		2352	139	1-58	750	53
11N/08W-30C01S	A.MELLHOWLEN	P	H	W	8	C				13		H	1954	P	6	2343	131	3-56		
11N/08W-30F01S	A.MELLHOWLEN	P	S	W	0	C				8			1954	P	6	2340	130	3-56	15	
11N/08W-30H01S	L.M.GRIFFIN	P	H	W	4			243		10		C	1957	S	T	2345	132	1-58	50	3
11N/08W-30Q01S	U.S.B.&CHEM CO	N	U	U	1		D	485	96	12	F	H	1955	N		2335	117	1-58	350	130
11N/08W-31P01S	U.S.B.&CHEM CO	N	U	U	6	C	DE		96	12	F	H	1955	N		2322	109	1-58	1350	47
11N/08W-32A01S	BORON COMM SERV	W	P	W			D	530	281		F	H	67	T	V	2350	163	2-67		
11N/08W-32G01S			U	U	9			156		14		C		N		2342	129	3-58		
11N/08W-32H01S	BORON COMM SERV	W	U	U		C	DE	504	204	12	F	H	1963	T	S	2340	135	3-63	600	19
11N/08W-33L01S	CALIF BORAX CO	N	N	W	2		D	500		10		C	1958	N		2345	131	1-58		
11N/08W-35D01S	H.H.HAYS	P	U	U	6	C	D		96	13	F	H	1955	N		2382	167	1-58	275	46
11N/08W-35N01S	H.H.HAYS	P	P	W	1	C	E	667		6	F	H	56	S	5	2395		1-58	395	103
11N/09W-01N01S			U	Z	0			12		6				N		2395		7-52		
11N/09W-06M01S			U	U						12		C		N		2350	168	12-57		
11N/09W-06P01S			U	Z	0			2				D		N		2350		7-56		
11N/09W-07M01S			U	Z	8						X	H		N		2335		1-58		
11N/09W-12L01S	M&R RANCH	P	U	U	8			155		6				P	3	2385		1-58		
11N/09W-12Q01S	PETERS	P	H	W	8			297		8		C	1957	P	3	2375	182	1-58		
11N/09W-13D01S	U.S.B.&CHEM CO	N	U	U	1		D	312	96	12	F	H	1955	N		2375	158	1-58	960	18
11N/09W-13L01S	U.S.B.&CHEM CO	N	U	U	1		D	462	144	12	F	H	1955	N		2360	144	1-58	1200	12
11N/09W-13R01S			U	Z	9					6				N		2370		1-58		
11N/09W-14R01S			U	Z	8					12				N		2370		1-58		
11N/09W-15H01S	M&R RANCH	N	U	U	8			362		6	F	H	1957	N		2360	156	1-58		
11N/09W-17M01S			U	Z	9						X		1952	N		2330	134			
11N/09W-17N01S			U	U	8	C		185		12		C		T		2320	131	3-58		
11N/09W-18J01S			U	Z	0			86		36	W	D		N		2330		4-51		
11N/09W-19A01S	W.MCCLANAGHAN	P	H	W	3	C		175		6	F	H	1953	T	3	2320		1-58	30	
11N/09W-19D01S	F.A.HEFFERMAN	P	U	U	6		D	155	116	6		C	1962	N		2400	121	4-67	40	
11N/09W-22P01S	JAMES	P	U	U	9					8	F	H	1957	N		2320	100	1-58		
11N/09W-22Q01S	J.C.SCHECTER	P	P	W	8	C		193		6		C		P	6	2320	106	1-58		
11N/09W-23R01S	FISHER	P	H	W	8	C		200		6				P	3	2395	143	1-58		
11N/09W-23R02S	FISHER	P	U	U	8			392		6		C	1957	N		2375	134	1-58		
11N/09W-23R03S	D.L.FISHER	P	U	U			D			8	P	C	1962	N		2350	139	4-67		
11N/09W-24A01S	U.S.B.&CHEM CO	N	U	U	6		D		200	16		C	1955	N		2349	136	1-58	96	189
11N/09W-24B01S	U.S.B.&CHEM CO	N	U	U	0			150		8		C		N		2345	133	1-58		
11N/09W-24B02S	U.S.B.&CHEM CO	N	N	W	1	C	D	542	96	12	F	H	1955	S	V	2345	133	1-58	1460	20
11N/09W-24Q01S	U.S.B.&CHEM CO	N	N	W	4	C	D	360	96	12	F	H	1955	S	5	2335		1-58	900	18
11N/09W-25L01S	U.S.B.&CHEM CO	N	U	U	1		D		96	12	F	H	1955	N		2324	111	1-58	930	12
11N/09W-26R01S	MILLHOLLIN	P	H	W	0	C				6				P	6	2325		1-58		
11N/09W-27F01S	ANTELOPE V.W.CO	W	P	W	0			330			F	H	1957	T	V	2310		1-58		
11N/09W-28B01S	HARRY LEVY	P	H	W	8			275		8	F	H	1957	S	5	2315	95	1-58		
11N/09W-28C01S	HARRY LEVY	P	U	U	2	C	D	187		5		C	1932	N		2293	87	1-58		
11N/09W-28K01S	WONDER ACRES	W	P	W	6	C		300		12	F	H	1953	T	V	2300	84	1-58	920	8
11N/09W-28K02S	FOGEMONT A.W.CO	W	P	W	1		D	302	132	12		H	1961			2302	90	3-61	1500	30
11N/09W-28N01S	DUNE INVEST CO	N	P	W	6			300		16	F	H	1957	T	V	2290	80	1-58	230	
11N/09W-28R01S	J.W.MACCLATCHIE	P	U	U	8			200		6		H	1953	J	5	2295	84	3-56	4	
11N/09W-28R02S	FRED CANNON	P	H	W	8			300		8	F	H	1954	J	5	2295	82	1-58		
11N/09W-29H01S	U.S.B.&CHEM CO	N	U	U	1		D	395	96	12	F	H	1955	N		2298	93	1-58	940	8
11N/09W-29K01S	U.S.B.&CHEM CO	N	U	U	1		D	405	96	12	F	H	1955	N		2292	86	1-58	850	23
11N/09W-30H01S	W.MCCLANAGHAN	P	U	U	6					10	F	H	1956	T	T	2298	93	1-58	10	

State well number	Owner or user	Ownership	Use of water	Use of well	Well data	Chemical analyses	Log data	Depth of well (feet below lsd)	Depth cased (feet below lsd)	Diameter (inches)	Well finish	Method drilled	Year drilled	Lift type	Power	Altitude of lsd (feet)	Water level (feet below lsd)	Date measured	Yield of well: Gallons per minute	Yield of well: Drawdown (feet)
11N/09W-30N01S	FLOURR	P	U	U	R	C				12					N	2328	116	3-58		
11N/09W-30001S	MRS.A.F.GREEN	P	U	U	6			164		12					N	2307	101	1-58	7	
11N/09W-31D01S	FLOURR	P	H	W	R	C		350			F	H	1956	S	S	2330	114	3-56		
11N/09W-31D02S	MUROC MOTEL	P	H	W	6	C		400		8	F	H	1955	S	U	2330	145	1-58	35	240
11N/09W-32A01S	C.F.ANDERSON	P	U	U		C		235		6					N	2300	90	4-67		
11N/09W-32R01S			U	Z	O			87		12					N	2290		4-53		
11N/09W-32C01S			U	Z	O			74		6					N	2290		4-51		
11N/09W-33E01S	W.R.MERRY	P	U	U	R			300		10	F	H	1958	N		2280	76	1-58		
11N/09W-33F01S	EDGMONT TR.CT.	P	H	W	R	C		290		8	F	H	1955	T	T	2270		1-58		
11N/09W-33F02S	DUNE INVEST CO	N	H	W	6			260		8	F	H	1957	S	T	2280	64	1-58	600	
11N/09W-34A01S	FRANK J.SCHULTZ	P	H	W	R	C		194		10		C	1910	T	T	2304	94	5-58		
11N/09W-34B01S	J.J.FRANK	P	H	W	O	C		125		6				J	T	2305		1-58		
11N/09W-34B02S	P.C.GARNER	P	H	W	O	C				6			1955	J	T	2305		1-58		
11N/09W-34B03S	J.H.GREGORY	P	H	W	O	C		132				C	1952	S	S	2310		1-58		
11N/09W-34K01S	MILLHOLLIN	P	H	W	R	C	U	147		6		C	1950	J	T	2300		1-58	30	
11N/09W-34K02S			H	Z	O			81		6				P	S	2292		5-54		
11N/09W-34K03S	JACK WELCH	P	P	W										T	T	2300	95	3-66		
11N/09W-34L01S	A.C.WILLIAMSON	P	H	W	O	C				6				S	T	2295		1-58		
11N/09W-36A01S	U.S.B.&CHEM CO	N	U	U	1	C	D		110	16		C	1955	N		2324	112	1-58	365	30
11N/09W-36C01S	U.S.B.&CHEM CO	N	U	U	1	C	D		96	12	F	C	1955	N		2320	106	1-58	850	23
11N/09W-36C02S	U.S.B.&CHEM CO	N	U	U	2		D		110	10		C	1955	N		2325		1-58		
11N/09W-36C03S	U.S.B.&CHEM CO	N	U	U	R		D		110	10		C	1955	N		2315	104	1-58		
11N/09W-36D01S	U.S.B.&CHEM CO	N	U	U	1	C	D		110	14		C	1955	N		2312	101	1-58	690	29
11N/09W-36H01S	U.S.B.&CHEM CO	N	U	U	1	C	D		96	12	F	H	1955	N		2317	104	1-58	410	29
11N/09W-36R01S	U.S. AIR FORCE	P	U	U	R		D		100	10		C	1953	N		2312	98	1-58		
11N/10W-04J01S	WALT MILLER	P	U	U	R			233		9					N	2403	205	7-56		
11N/10W-12F01S		P	U	U						8			1959	T		2350	171	4-67		
11N/10W-13R01S	FRED HAIGHT	P	H	W				252	175	10	P	C	1960	P	F	2350	176	4-67		
11N/10W-13H01S	FRANK KEFFLER	P	H	W				200		10	P	C	1958	S	T	2350		4-67		
11N/10W-26F01S			U	Z	O			118		12		C			N	2400		9-52		
11N/10W-36A01S	A.F.GREEN	P	U	U			D	300		10		H	1957	N		2340	122	1-58		
11N/10W-36B01S	A.F.GREEN	P	P	W	2	C	D			8	F	H		T	U	2345		1-58		
11N/10W-36H01S	AT&SF RAILWAY	N	Z	W	1	C	O			10	F	H	53	T	U	2337	119	1-58	150	
12N/08W-34A01S	MCGINTY	P	U	U	R					6				P		2540		1-58		
12N/09W-35L01S	PEERLESS PUMP	N	I	W	6		F		328	16		H	1956		V	2450	256	11-57	1830	54
12N/09W-36N01S	MCLAIN	P	U	U	R					16	F	H	1956	N		2435	222	11-57	550	
12N/10W-31Z01S			U	Z	O									N		2420		7-56		
12N/10W-34D01S			U	Z	O			113		12				N		2380		7-56		
12N/10W-35P01S			U	Z	R	C		194		10		C		N		2365		1-58		
29S/37E-34B01M	MCMILLAN	P	U	U	R	C				8		D		J	S	2590	9	2-58	16	
29S/37E-34R02M	MCMILLAN	P	U	Z	6			0						N		2590				
29S/38E-34P01M	WESTERN SALT CO	N	U	Z				23		16				N		1934		5-53		
29S/39E-11R01M	JENNIFER MINING	N	U	U						14		C		N		2400		2-58		
29S/39E-12L01M	YELLOW A.MIN.CO	N	U	Z	6			101		60		D		N		2558		2-58		
29S/39E-12L02M	YELLOW A.MIN.CO	N	U	Z	6	C		350		10		C		T		2558		2-58	65	
29S/39E-12L03M	YELLOW A.MIN.CO	N	U	U	6	C			516	12		C		N		2510	392	2-58	65	
29S/39E-12N01M	YELLOW A.MIN.CO	N	N	W		C		520		16		H		T	V	2395	347	2-58		
29S/39E-14A01M	YELLOW A.MIN.CO	N	U	U								H		T		2360		2-58		
29S/39E-15E01M	JACK WATSON	P	U	Z				56		48		D		N		2230		2-58		
29S/39E-15M01M	MILLEREMARTIN	P	U	U		C		80		60		D		P	S	2295	64	2-58		
29S/39E-21A01M	MATHILDA AUSTIN	P	H	W				103		8		C	1955	P	F	2165	46	2-58		
29S/39E-22D01M	BEN BOYLE	P	U	U				56		48		D		P		2160	48	2-58		
29S/39E-22D02M	SLOCUM	P	U	Z				6		48		D	1870	N		2160		2-58		
29S/39E-22E01M	LEE REAMS	P	U	Z				71				C		N		2140		2-58		
29S/39E-23J01M	T.F.PRATHER	P	I	W	6			600		14		C	1954	T	4	2280		2-58	600	
29S/39E-24A01M	T.F.PRATHER	P	U	U				244		10	X	C	1957	N		2270	138	2-58		
29S/39E-27K01M			U	Z				124		10		C		N		2145		2-58		
29S/39E-28H01M			U	U						12				N		2100	174	2-58		
29S/39E-29M01M	MARK MORRIS	P	I	W	6	C		265	100	14				T	M	1980	69	2-67	800	28
29S/39E-29N01M	WIRTZ	P	I	W	6	C		165	65	8			1942	T	3	1980	66	2-58	350	

State well number	Owner or user	Ownership	Use of water	Use of well	Well data	Chemical analyses	Log data	Depth of well (feet below lsd)	Depth cased (feet below lsd)	Diameter (inches)	Well finish	Method drilled	Year drilled	Lift type	Power	Altitude of lsd (feet)	Water level (feet below lsd)	Date measured	Yield of well: Gallons per minute	Yield of well: Drawdown (feet)
29S/39E-32C01M	WIRTZ	P	I	W	6					14		H	1949	T	4	1990	79	2-58	1160	
29S/39E-32E01M	JONES	P	H	W				125		6				A	3	1965	54	2-58		
29S/39E-32J01M			U	Z						12						2020		2-58		
29S/39E-33C01M			U	Z				31		8		C		N		2055		2-58		
29S/39E-33H01M	STOCKTON,WORKS	N	I	W	6	C	D	460		16		H	1956	T	4	2095	177	2-58	1100	225
29S/39E-33K01M	STOCKTON,WORKS	N	U	U			D	403		16		H	1956	N		2050	131	2-58		
29S/39E-34F01M	JESSE STOCKTON	P	U	Z				178		10		C		N		2140		2-58		
29S/39E-35H01M	U.S.GRAZING SER	N	U	U						6				N		2280	356	2-58		
29S/40E-21H01M			U	U				352		12		C			V	2780		2-67		
29S/40E-22D01M	GEORGE MOORE	P	U	U								C			V	2800		2-58		
29S/40E-22E01M	GEORGE MOORE	P	U	U								C		T	V	2840				
29S/40E-22E02M	GEORGE MOORE	P	U	W	6	C		860		14		C	1942		V	2840	396	1-42	94	31
30S/37E-12N01M	DONLEY	P	H	W	2	C		160	60	6	F	H	1947	J	3	2180	107	2-58	8	
30S/37E-13E01M	CROOKSHANK	P	U	Z	5		D	30		18						2185		2-58		
30S/37E-13F01M	CROOKSHANK	P	U	U			D	1859		12						2110		2-58		
30S/37E-14N01M	FRANK PAPPAS	P	U	U				200		6				P	S	2145	90	8-56		
30S/37E-23D01M	JIM BISHOP	P	H	W		C				6				P	T	2120	185	2-58		
30S/37E-23J01M	CANTIL SCHOOL	M	P	W		C				10				T	T	2010		2-58		
30S/37E-23J02M		P	H	W										P	S	2010		2-58		
30S/37E-23J03M	SO.PACIFIC CO	N	H	W	6	C						C		P	S	2015		2-58	55	26
30S/37E-23J04M	CANTIL SCHOOL	M	U	U						6				N		2010		2-58		
30S/37E-24R01M	SO.PACIFIC CO	N	U	Z			D	50		12				N		2020		8-56		
30S/37E-24G01M	BROWN	P	U	U						12				T		2000	51	2-58		
30S/37E-24G02M	CLARK	P	U	U				200		8		H	1957		T	1985		2-58		
30S/37E-24J01M	EARL BROWN	P	U	U				108		12		C		N		1975	26	2-58		
30S/37E-24K01M	FRED CLARK	P	U	W	6	C			73	8		B	1952	T	U	1980	24	2-58	200	
30S/37E-24K02M	GENE GETTY	P	H	W				120		6				J	S	1980	28	2-58		
30S/37E-24M01M			U	U						8		C		P		1987	44	2-58		
30S/37E-24N01M			U	U				6		4				P	6	1985		2-58		
30S/37E-24N02M			H	W								H	1957	J	T	1985		2-58		
30S/37E-24R01M	GEORGE PAPPAS	P	U	U	6	C		197		8		C	1936	N		1955	4	2-58	360	20
30S/37E-24R02M	GEORGE PAPPAS	P	S	W	6			163		8		C		J	S	1945	+1	2-58	215	20
30S/37E-25M01M	MER RANCH	N	I	W	6		D	692	120	18	F	H		T	V	1978	34	2-58	1150	48
30S/37E-26D01M	MER RANCH	P	U	Z		C		78		10				N		2034		7-56		
30S/37E-26E01M	MER RANCH	N	I	W	6	C	D			14		H	1950	T	V	2035	81	2-58	1420	11
30S/37E-26K01M	JOHN MACRORIE	P	U	U	6					12		C	1914	N		2000	52	2-58	900	
30S/37E-26K02M	JOHN MACRORIE	P	U	Z				6		6		C		P		2000		2-58		
30S/37E-26M01M	ROGERS	P	U	U	6			59		12		C	1914	A		2030		2-58	180	
30S/37E-26M02M	ROGERS	P	H	W				100	85	12		C		J	T	2030		2-58		
30S/37E-26M03M	ROGERS	P	I	W	6			640		12			1914	T	3	2030			1120	16
30S/37E-26M04M	ROGERS	P	U	U								C	1914	N		2030		2-58		
30S/37E-26Z01M	MER RANCH	N	U	Z	6					12		C				2034		2-58	810	13
30S/37E-27H01M	J.S.SHESLER	P	H	W	6			220	90	10		C	1924	T	U	2034	94	2-58	100	8
30S/37E-27P01M	ROGERS	P	U	P						12		H		N		2060	118	2-58		
30S/37E-27Z01M	ROSS R.ROGERS	P				E				11		H		N		2050		2-58		
30S/37E-28H01M	GEORGE PYE	P	H	W	6	C		198		8			1918	J	U	2120	78	1-58		
30S/37E-28J01M	BRUCE MINARD	P	N	W	6			231		8		C	1957	T	T	2100	125	1-58	150	
30S/37E-34B01M	M.M.BLACK	P	H	W	6			141		12		C	1920	P	S	2040		2-58	2	
30S/37E-34F01M	ROASENBANM	P	I	W						10		C	1956	T	3	2030	79	2-58		
30S/37E-34H01M			H	W						6			1947	J	T	2018	69	2-58		
30S/37E-35Q01M	MER RANCH	N	I	W	6		D	844	120	18		H		T	V	2015	97	1-58	2380	
30S/37E-35Q01M	MER RANCH	N	I	W	6		D	810	246	20		H		T	V	2015	63	1-58	2920	
30S/37E-36C01M	MER RANCH	N	U	Z	6	C	D			14		H		N		1980		1-58	2140	
30S/37E-36D01M	MER RANCH	N	I	W	6					16		H		T	V	1985		4-67	2030	
30S/37E-36G01M	MER RANCH	N	H	W	6		D		12	14		H		T	T	1981	33	1-58	1200	60
30S/37E-36H01M	MER RANCH	N	I	W											V	1985		4-67		
30S/37E-36K01M	MER RANCH	N	I	W	6		D	527	275	14	F	H		T	U	2005	50	1-58	1320	
30S/37E-36N01M	MER RANCH	N	I	W	6	C	D	590	244	20	F			T	U	2015	72	1-58	2660	
30S/38E-03B01M	WESTERN SALT CO	N	H	W		C		99		10		C	1954	T	T	1927	28	10-56		
30S/38E-03E01M			U	Z				30		40		D				1946		5-53		

State well number	Owner or user	Ownership	Use of water	Use of well	Well data	Chemical analyses	Log data	Depth of well (feet below lsd)	Depth cased (feet below lsd)	Diameter (inches)	Well finish	Method drilled	Year drilled	Lift type	Power	Altitude of lsd (feet)	Water level (feet below lsd)	Date measured	Yield of well: Gallons per minute	Yield of well: Drawdown (feet)
30S/38E-03G01M	WESTERN SALT CO	N	N	W						12		C		T	T	1905		10-56		
30S/38E-03J01M	WESTERN SALT CO	N	N	W						12		C		T	T	1900	56	10-56		
30S/38E-03K01M	WESTERN SALT CO	N	U	U								D		P	1	1900	2	5-53		
30S/38E-03K02M	WESTERN SALT CO	N	N	W						12				T	U	1900		10-56		
30S/38E-05A01M	WALTER TISCH	P	H	W		C		140		8		D	1941	P	F	1994	100	2-58		
30S/38E-05R01M	E.S.MCKENDRY	P	U	U						12						1914	15	2-58		
30S/38E-05R02M	E.S.MCKENDRY	P	U	U				22		12		C		N		1914	13	2-58		
30S/38E-08E01M	E.S.MCKENDRY	P	U	U								D		P		1980		2-58		
30S/38E-08E02M	E.S.MCKENDRY	P	U	U				27		30		D		N		1980	26	2-58		
30S/38E-08G01M	E.S.MCKENDRY	P	H	W	6					48		D		P	6	1930	3	2-58	70	18
30S/38E-08G02M	E.S.MCKENDRY	P	U	U												1932		5-53		
30S/38E-08J01M	E.S.MCKENDRY	P	U	U	6	C				20				N		1900	FLOW	2-58	20	
30S/38E-08K01M	E.S.MCKENDRY	P	U	U				32		6				N		1930	+1	2-58		
30S/38E-08K02M	E.S.MCKENDRY	P	S	W	6			275		10		C		T	3	1930	FLOW	2-58	350	
30S/38E-08N01M	E.S.MCKENDRY	P	S	W				52		10		C		T	S	1955	25	2-58		
30S/38E-08N02M	E.S.MCKENDRY	P	U	U										N		1955		2-58		
30S/38E-19A01M	J.E.SPROTT	P	U	Z			D				X	H	1926	N		1954		2-58		
30S/38E-19F01M	CROOKSHANK	P		Z			DE	2886		18		H		N		1970		2-58		
30S/38E-19K01M	J.E.SPROTT	P	I	W	6	C				24		C	1913	T	U	1960	16	2-58	370	42
30S/38E-19M01M	J.E.SPROTT	P	U	U	6	C				24		C	1911	T		1966	22	2-58	500	86
30S/38E-19P01M	J.E.SPROTT	P	U	U			DE	3090		12		H		N		1945		2-58		
30S/38E-19P02M	J.E.SPROTT	P	U	U			DE	5056		18				N		1945	FLOW	2-58		
30S/38E-20B01M	PIEROSE	P	U	U						10		H	1957	T	V	1920	4	2-58		
30S/38E-20C01M	G.PIEROSE	P	U	U		C		143		8						1920	+2	2-58		
30S/38E-20C02M	PIEROSE	P	H	W		C		80		8		C		P	6	1920		2-58		
30S/38E-20C03M	J.C.CRISTIE	P	I	W				205		8		C	1957	P	6	1930	7	2-58		
30S/38E-20C04M	PIEROSE	P	U	U						12		H	1957	N		1920	+3	2-58		
30S/38E-20E01M	CALLOWAY	P	U	W				24		8				N	6	1928	6	2-58		
30S/38E-20F01M	T.MCKEY	P	I	W	6	C		205		12		H	1955	T	V	1928	4	2-58	500	
30S/38E-21D01M	T.MCKEY	P	S	W	6	C				8				N		1898	+1	10-56	20	
30S/38E-21N01M	DR.THOM	P	H	W	6	C		300							V	1913	7	4-67	600	
30S/38E-24F01M	LINCOLN	P	U	T	6	C		446		5		H	1944	N		1940	13	2-58		
30S/38E-28D01M	MRS.A.DALY	P	U	U	6			152		10		C	1918	N		1910	FLOW	2-58	40	
30S/38E-28G01M			U	U						6				N		1905		4-67		
30S/38E-29Z01M	FRED HARTSOOK	P	U	Z								C		N		1930		1-58		
30S/38E-30B01M			S	W	6					12				N		1940	FLOW	2-58	10	
30S/38E-30B02M		P	U	Z	6			3		24		C		N		1935		2-56	450	
30S/38E-30E01M	DWEN	P	U	U	6			260		12		C		J	S	1946	4	1-58	40	
30S/38E-30P01M	M&R RANCH	N	I	W	6		D	643	130	20	F	H		T	W	1957	24	1-58	1570	
30S/38E-30Q01M			U	U				94		12		C		N		1957	13	1-58		
30S/38E-30R01M	MRS.MUNSEY	P	U	U		C		80		6		C	1917	P	6	1955	14	1-58		
30S/38E-30R02M	MRS.MUNSEY	P	U	W				38		6		C		N		1955	12	1-58		
30S/38E-31C01M	M&R RANCH	N	I	W	6					16		H		T	V	1957	140	4-67	2240	
30S/38E-31F01M	M&R RANCH	P	I	W	6		D	658	118	16	F	H		T	V	1980	51	1-58	1220	
30S/38E-31G01M	M&R RANCH	N	U	W	6		D	656	120	20	F	H		N		1980		1-58	1580	
30S/38E-31L01M	M&R RANCH	N	U	U						16		H	1957	N		1995	67	1-58		
30S/38E-31Q01M	M&R RANCH	N	I	W	6							H			V	1995	147	4-67	1940	
30S/38E-32D01M	HOLDERNESS	P	H	W		C		300		6		H	1935	J	T	1965	28	1-58		
30S/38E-32D02M	HOLDERNESS	P	U	U				167		12		H	1947	T	3	1965		1-58		
30S/38E-32E01M	M&R RANCH	N	U	W				107		12						1980	37	1-58		
30S/38E-32G01M	M&R RANCH	N	S	W			D	852	120	12				J	S	1949		1-58		
30S/38E-32N01M	ROGERS	P	U	U	6							C	1914	C		2000		1-58	585	20
30S/38E-32Z01M	ROGERS	P	U	Z								H		N		1995		1-58		
30S/38E-34C01M	P.CASSOU	P	I	W	6	C		367		10		C	1923	T	G	1940	8	2-58	250	
30S/38E-34C02M	P.CASSOU	P	U	U				52		12		C		N		1925	13	2-58		
30S/39E-03C01M	J.STOCKTON	P	U	W	6	C	D	610		14		H	1956	N		2160	237	2-58	1600	45 24
30S/39E-04H01M				Z				225		12						2155		4-53		
30S/39E-05A01M			U	Z				85		12						2010		4-53		
30S/39E-06G01M			U	Z				20		10				N		1930		2-58		
30S/39E-08A01M			U	U		C		268		12		C				2050	138	2-58		

State well number	Owner or user	Ownership	Use of water	Use of well	Well data	Chemical analyses	Log data	Depth of well (feet below lsd)	Depth cased (feet below lsd)	Diameter (inches)	Well finish	Method drilled	Year drilled	Lift type	Power	Altitude of lsd (feet)	Water level (feet below lsd)	Date measured	Yield of well: Gallons per minute	Yield of well: Drawdown (feet)
30S/39E-08F01M		U	Z					84			X	H	1956			2000		2-58		
31S/37E-01H01M	M&R RANCH	N	I	W		C	D	504		14		H		T	W	2019	81	1-58		
31S/37E-01M01M	M&R RANCH	N	I	W						16		H		T	W	2040		4-67		
31S/37E-01R01M	M&R RANCH	N	I	W	6		D	468	240	20	F	H		T	W	2055	126	1-58	2580	
31S/37E-02D01M	M&R RANCH	N	I	W						16		H		T	W	2030	105	1-58		
31S/37E-02P01M	M&R RANCH	P	I	W	6		D	380		18	F	H		T	W	2065	147	1-58	2070	
31S/37E-02Z01M	M&R RANCH	N	U	Z								C				2065		1-58		
31S/37E-04N01M	M&R RANCH	N	I	W	6					16		H	1952	T	W	2120		1-58	1600	
31S/37E-05M01M	CINCO GAS STA	P	H	W	6	C		205		6		C	1946	J	S	2150	156	1-58	8	
31S/37E-06J01M	W.PAGANELO	P	H	W						4		D		T	S	2170		1-58		
31S/37E-08C01M	M&R RANCH	P	U	U	6			650		16		H	1952	T	W	2190	174	3-58	1690	
31S/37E-10A01M	J.HUNTER	P	I	W		C		320		12		H	1948	T	A	2100	120	3-53		
31S/37E-10Q01M		U	Z	6				162		48		D		N		2160		1-58	500	
31S/37E-10Z01M	J.HUNTER	P	U	Z								C		N		2120		1-58		
31S/37E-12H01M	M&R RANCH	N	U	U	6					18		H		T	W	2085	156	1-58	1640	18
31S/37E-12N01M	M&R RANCH	P	U	Z								H				2135		1-58		
31S/37E-12Z01M	M&R RANCH	N	U	Z												2070		1-58		
31S/37E-13A01M	LEWIS RYAN	P	U	U				400		12		C	1915	N		2135	184	1-58		
31S/37E-13B01M	LEWIS RYAN	P	U	U						12		C	1916	N		2140	174	3-57		
31S/37E-14L01M	L.H.GIDDINGS	P	U	U	6	C				60		D	1914	P	6	2179		1-58	500	
31S/37E-22J01M	CINCO		U	T			D	275		10		H		N		2235		1-58		
31S/37E-22Q01M	L.W.GIDDINGS	P	U	U						14		C	1914	T		2260	269	11-57		
31S/37E-22R01M	HIX	P	U	Z			DE	67		12		H		N		2240		1-58		
31S/37E-23K01M	M&R RANCH	P	U	Z	6			205		16	X	H	1953			2210		1-58	750	230
31S/37E-26K01M	R.M.MARROW	P	U	U						14		C		N		2240	244	1-58		
31S/37E-28H01M	IGNACE ROSETTI	P	U	W				585		14		H		N		2300	234	6-64		
31S/37E-28P01M	FREMONT VALLEY	M	U	W		C				14		H	1957	N		2340	266	1-58		
31S/37E-28Q01M	DR.SLAUGHTER	P	I	W	6			600		16		H	1956	T	N	2330	243	1-58	1400	
31S/37E-30F01M	GIDDINGS	P	U	U						16		C		N		2372	307	1-58		
31S/37E-32A01M		P	U	Z	6					12		C		N		2348		1-58	180	
31S/37E-32Z01M	W.E.GANTT	P	U	Z	6					10		C		N		2380		1-58	18	
31S/37E-33H01M	M&R RANCH	P	I	W	6			535		16		H		T	W	2340	274	1-58	1860	55
31S/37E-33Z01M	L.O.DAVIS	P	U	Z						14				N		2324		1-58		
31S/37E-34A01M	KENT REALTY CO	N	U	Z				205		12		C	1914	N		2271		1-58		
31S/37E-35N01M	M&R RANCH	N	U	U	6	C				16		H	1952	N		2320	244	3-58	1750	30
31S/38E-06R01M		P	U	Z	6			22		60		D		N		2025		1-58	720	
31S/38E-18P01M	M&R RANCH	P	U	W						12		C		P		2225	147	1-58		
31S/38E-22H01M	FREMONT OIL SYN	N	U	Z		D				8				N		2660		1-58		
31S/38E-22H02M	FREMONT OIL SYN	N	U	Z		D		270		5				N		2655		1-58		
31S/38E-22J01M			U	Z				0		6				N		2640		1-58		
31S/38E-31C01M			U	U	6			202		12		C		N		2300	198	1-58	450	
31S/39E-23K01M	MOJAVE INVEST	N	U	Z				330		8		H	1957	N		2970		1-58		
31S/39E-24M01M	MOJAVE INVEST	N	U	U	6	C				14		H	1957	N		2930	369	11-57		759
31S/39E-24P01M	MOJAVE INVEST	N	U	U	6	C		793		14		H	1957	N		2925	384	11-57	75	
31S/39E-26C01M	CALIFORNIA CITY	N	U	T	6			1040				C		N		2900	280	4-67		
31S/39E-35C01M	MOJAVE INVEST	N	U	U						16		H	1957	N		2845	289	1-58		
31S/39E-35F01M	MOJAVE INVEST	N	U	U				344		10		H	1952	N		2825	330	1-58		
31S/39E-35F02M	MOJAVE INVEST	N	U	Z				64		8		H	1957	N		2825		1-58		
31S/40E-32F01M	U.S.GRAZING SER	F	U	Z				251		6				N		2800		11-57		
31S/40E-35N01M	N.P.MIRILOY	P	U	U				717		6		H		P		2744	195	11-57		
32S/36E-14Q01M	M&R RANCH	P	U	Z				62		60	X	O	1929	N		2630		1-58		
32S/36E-22B01M	OLIVER PESCH	P	H	W		C	D	829	713	6			1947	P	T	2710	605	1-58		
32S/36E-22B02M	MUSICAL WELL	P	U	Z				534		8		C				2710		1-58		
32S/36E-22C01M			U	U						6			1957	N		2720	612	1-58		
32S/36E-23Q01M	HENRY KIRSCHMAN	P	U	U						12		H	1952			2670		1-58		
32S/37E-01N01M	M&R RANCH	P	U	D		F				18		H		N		2330	230	2-58		
32S/37E-02E01M	M&R RANCH	P	U	Z	6			6						N		2317		1-53	315	
32S/37E-02F01M	M&R RANCH	P	U	Z				206		16		H		N		2320		1-58		
32S/37E-02N01M	M&R RANCH	P	U	Z				90		10				N		2330		1-53		
32S/37E-04Q01M	M&R RANCH	P	I	W	6	C				16		H	1952	T	W	2390	335	1-58	1920	113

State well number	Owner or user	Ownership	Use of water	Use of well	Well data	Chemical analyses	Log data	Depth of well (feet below lsd)	Depth cased (feet below lsd)	Diameter (inches)	Well finish	Method drilled	Year drilled	Lift type	Power	Altitude of lsd (feet)	Water level (feet below lsd)	Date measured	Yield of well: Gallons per minute	Yield of well: Drawdown (feet)
32S/37E-04D02M	M&R RANCH	P	U	Z								H				2390		1-58		
32S/37E-04P01M	M&R RANCH	P	I	W	6	C				16		H		T	W	2405	340	1-58	2300	82
32S/37E-04P02M	M&R RANCH	P	U	Z								H				2405		1-58		
32S/37E-04Q01M	M&R RANCH	P	U	Z	6			427		12		C		N		2389	303	1-53	150	
32S/37E-06L01M			U	Z				85				C		N		2480		1-58		
32S/37E-08E01M		P	U	Z						10		C		N		2470		1-58		
32S/37E-09Q01M	M&R RANCH	P	I	W	6					16		H		T	W	2410	365	1-58	1680	112
32S/37E-09Z01M	M&R RANCH	P	U	Z			DE				X	H		N		2445		1-58		
32S/37E-11N01M	M&R RANCH	P	U	U	6					16		H	1952	N		2375	279	3-58	1000	
32S/37E-12M01M	D.JONES	P	U	U				431		16	F	H	1957	N		2350	243	1-67	300	
32S/37E-12P01M			U	U						16						2350	279	4-67		
32S/37E-14N01M	M&R RANCH	P	I	W	6	C				16		H	1952	T	W	2400	323	1-58	1000	
32S/37E-14Q01M	M&R RANCH	P	U	U								C	1917	N		2395		2-53		
32S/37E-16R01M	M&R RANCH		I	W	6		D			16		H	1952	T	W	2440	386	1-58	1990	59
32S/37E-19R01M			U	Z				60		8		C		N		2560		1-58		
32S/37E-22N01M	M&R RANCH	P	I	W	6					16		H	1952	T	W	2460	344	1-58	1260	88
32S/37E-22Z01M	M&R RANCH	N	U	Z						12		C		N		2418		1-58		
32S/37E-23N01M	M&R RANCH	N	I	W	6					16		H	1952	T	W	2415	353	1-58	1780	
32S/37E-24N01M	M&R RANCH	P	U	Z	6			265		18		H	1952	N		2385		1-58	250	
32S/37E-24N02M	M&R RANCH	N	H	W	6	C				12		C		P	3	2383		1-58	315	
32S/37E-26G01M	M&R RANCH	P	I	W	6	C				16		H	1952	T	W	2405		1-58	1340	45
32S/37E-26G02M	M&R RANCH	N	U	Z						8		C		N		2388		1-53		
32S/37E-26M01M	M&R RANCH	N	I	W	6		D	598		16		H	1953	T	W	2420	352	1-58	600	79
32S/37E-26N01M	CALIFORNIA CITY	M	U	W									1952	N	W	2420	326	1-67	1000	
32S/37E-26R01M	M&R RANCH	N	I	W	6	C				16		H		T	W	2395		1-58	1660	76
32S/37E-26Z01M	M&R RANCH	N	U	Z								C		N		2410		1-58		
32S/37E-32N01M	M&R RANCH	S	U	U	6			1800	1000	16	F	H	1952	N		2550		1-58	1000	
32S/37E-34D01M	M&R RANCH	N	U	Z				335		12		C		N		2450		1-58		
32S/37E-35G01M	M&R RANCH	N	I	W	6			662				H	1952	T	W	2405	359	1-58	656	33
32S/37E-36N01M	M&R RANCH	N	U	Z	3		F				X		1952	N		2395			550	
32S/37E-36R01M	SCHOOL HOUSE	S	U	Z				141		8				N		2385		7-56		
32S/38E-10P01M	U.S.GRAZING SER	F	U	Z	8	C		169		7		C				2475		1-58		
32S/38E-10P02M			U	U						6	X	H		N		2475	179	1-58		
32S/38E-20D01M	DESERT WELL		U	Z				98			X	D		N		2330		1-58		
32S/38E-20D02M			U	Z				44				D				2330		1-58		
32S/38E-30G01M			U	Z				220		12		C		N		2360		1-58		
32S/38E-32N01M	M&R RANCH	N	U	U		C				10		C		P	6	2370	247	3-58		
32S/39E-04L01M	M&R RANCH	N	U	U	6	C	D	237		10		H				2725	207	1-58		
32S/39E-28G01M	PEERLESS PUMP	N	U	Z							X	H	1956	N		2530		11-57		
32S/39E-30R01M	U.S.GRAZING SER	F	U	U				253		12		C		P		2485	227	1-58		
32S/39E-32C01M	M&R RANCH	N	U	Z				231		10		C		N		2480		1-58		
32S/39E-33A01M	PEERLESS PUMP	N	U	Z			F				X	H	1956			2510		11-57		
32S/39E-33C01M	MOJAVE RANCH	N	I	W				1200			F	H	1962	T	W	2500	650	4-67		
32S/39E-33L01M	PEERLESS PUMP	N	I	W	6	C		1400		16			1956	T	W	2485	297	11-57	1780	26
32S/39E-33M01M	MOJAVE RANCH	P	U	U				1000		18	F	H	1959	N		2474	531	1-67		
32S/39E-33N01M	PEERLESS PUMP	N	I	W	6			1410		16		H	1956	T	W	2465	269	11-57	1830	50
32S/39E-33R01M	PEERLESS PUMP	N	H	W	6	C		300		10		H	1956	J	U	2470	230	11-57	40	
32S/40E-31B01M	U.S.B.&CHEM CO	N	U	Z			D					C	1954	N		2530		1-58		
32S/40E-31F01M	U.S.B.&CHEM CO	N	U	Z	6		D					C	1954	N		2520		1-58	19	97

SPRINGS

State spring number	Owner or user	Ownership	Use of water	Use of spring	Well data	Chemical analyses	Log data	Depth of spring (feet below lsd)	Depth cased (feet below lsd)	Diameter (inches)	Well finish	Method drilled	Year drilled	Lift type	Power	Altitude of lsd (feet)	Water level (feet below lsd)	Date measured	Yield of spring: Gallons per minute	Yield of spring: Drawdown (feet)
29S/37E-35NS1			U	U										N		2,440		4- 9-53	0.25	
29S/38E-27QS1			U	U		C								Z		2,280		4-27-67	.10	
			U	U														4-23-53	.05	
29S/39E-20QS1			U	U		C								Z		2,320		4-27-67	.10	
			S	W														4-23-53	.33	
30S/37E- 3AS1			U	U				2.6						N		2,500	0.35	5- 9-67		

TABLE 2.--*Records of water level*

Letter(s) following water-level measurements:

A Well being pumped.
B Well pumped recently.
C Nearby well being pumped.
D Nearby well pumped recently.
E Estimated.
F Dry.
G Measurement by outside agency or person.
H Tape measurement (recorder).
I Affected by outside influence (wind, atmospheric pressure, ocean tides, railroad trains).
J Water level below sea level.
K Measurement from recorder chart.
M Obstruction in well above water surface.
N No measurement.
O Measurement discontinued.
P Well destroyed.
Q Flowing.

10N/7W-6A1 S. ALTITUDE ABOUT 2,470 FT.
HIGHEST WATER LEVEL 223.00 FT BELOW LSD, JAN. 8, 1951.
LOWEST STATIC WATER LEVEL 223.00 FT BELOW LSD, JAN. 8, 1951.
RECORDS AVAILABLE: 1951, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 8, 1951	223	JAN. 13, 1958	280 A				

10N/7W-6B1 S. ALTITUDE ABOUT 2,460 FT.
HIGHEST WATER LEVEL 182.00 FT BELOW LSD, SEP. 7, 1945.
LOWEST STATIC WATER LEVEL 243.30 FT BELOW LSD, JAN. 14, 1958.
RECORDS AVAILABLE: 1945-46, 1950, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 7, 1945	182 A	DEC. 9, 1946	185 G	SEP. 11, 1950	201 G	JAN. 14, 1958	243.30

10N/7W-6B2 S. DEPTH 454 FT. ON JUNE 30, 1955. ALTITUDE ABOUT 2,460 FT.
HIGHEST WATER LEVEL 206.00 FT BELOW LSD, JUNE 30, 1955.
LOWEST STATIC WATER LEVEL 271.83 FT BELOW LSD, JAN. 14, 1958.
RECORDS AVAILABLE: 1955, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUNE 30, 1955	206 G	JAN. 14, 1958	271.83				

10N/8W-4A1 S. DEPTH 88 FT. ON SEPT. 3, 1952; AND 123.0 FT. ON MARCH 24, 1960. ALTITUDE ABOUT 2,355 FT.
HIGHEST WATER LEVEL 141.00 FT BELOW LSD, MAY 6, 1952.
LOWEST STATIC WATER LEVEL 143.34 FT BELOW LSD, APR. 2, 1952.
RECORDS AVAILABLE: 1951-52, 1960.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 31, 1951	141.29	JUNE 28, 1951	143.95R	NOV. 15, 1951	141.40	APR. 2, 1952	143.34
FEB. 28	141.67	JULY 25	141.60	DEC. 21	141.44	MAY 6	141.00
APR. 10	141.89	AUG. 21	141.56R	JAN. 16, 1952	141.35	SEP. 3	F
MAY 7	142.74R	SEP. 18	141.48	MAR. 8	141.26	MAR. 24, 1960	F

11N/7W-31P1 S. DEPTH 0 FT. ON JAN. 14, 1958. ALTITUDE ABOUT 2,445 FT.
HIGHEST WATER LEVEL 237.74 FT BELOW LSD, FEB. 28, 1951.
RECORDS AVAILABLE: 1951, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 31, 1951	246.95C	FEB. 28, 1951	237.74A	JAN. 14, 1958	P		

11N/7W-32E1 S. DEPTH 502 FT. ON MAY 31, 1956. ALTITUDE ABOUT 2,455 FT.
HIGHEST WATER LEVEL 232.00 FT BELOW LSD, MAY 31, 1956.
LOWEST STATIC WATER LEVEL 241.45 FT BELOW LSD, JAN. 14, 1958.
RECORDS AVAILABLE: 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 31, 1956	232 G	JAN. 14, 1958	241.45				

11N/7W-32G3 S. DEPTH 300 FT. IN 1946. ALTITUDE ABOUT 2,460 FT.
HIGHEST WATER LEVEL 170.00 FT BELOW LSD, , 1946.
LOWEST STATIC WATER LEVEL 170.00 FT BELOW LSD, , 1946.
RECORDS AVAILABLE: 1946.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
1946	170	G									

11N/7W-32M1 S. DEPTH 410 FT. ALTITUDE ABOUT 2,450 FT.
HIGHEST WATER LEVEL 201.00 FT BELOW LSD, APR. 22, 1953.
LOWEST STATIC WATER LEVEL 201.00 FT BELOW LSD, APR. 22, 1953.
RECORDS AVAILABLE: 1953.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
APR. 22, 1953	201										

11N/7W-32M2 S. DEPTH 522 FT. ON NOVEMBER 8, 1956. ALTITUDE ABOUT 2,450 FT.
HIGHEST WATER LEVEL 205.00 FT BELOW LSD, NOV. 8, 1956.
LOWEST STATIC WATER LEVEL 216.55 FT BELOW LSD, JAN. 14, 1958.
RECORDS AVAILABLE: 1956, 1958.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV. 8, 1956	205	G	JAN. 14, 1958	216.55							

11N/7W-32N1 S. DEPTH 305 FT. ALTITUDE ABOUT 2,470 FT.
HIGHEST WATER LEVEL 155.48 FT BELOW LSD, JAN. 14, 1958.
LOWEST STATIC WATER LEVEL 156.83 FT BELOW LSD, NOV. 3, 1952.
RECORDS AVAILABLE: 1951-52, 1958.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV. 27, 1951	156.4		NOV. 3, 1952	156.83		JAN. 14, 1958	155.48				

11N/8W-2N1 S. DEPTH 336 FT. IN 1936. ALTITUDE ABOUT 2,480 FT.
HIGHEST WATER LEVEL 142.40 FT BELOW LSD, JULY 30, 1952.
LOWEST STATIC WATER LEVEL 178.00 FT BELOW LSD, JULY 18, 1955.
RECORDS AVAILABLE: 1947-48, 1952, 1955.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
SEP. 13, 1947	172	G	DEC. 10, 1948	168	G	JULY 30, 1952	142.4	R	JULY 18, 1955	178	G
SEP. 13	198	C	JUNE 6, 1952	177.0	R	DEC. 26	175	G			

11N/8W-2P1 S. DEPTH 346 FT. IN 1941. ALTITUDE ABOUT 2,490 FT.
HIGHEST WATER LEVEL 165.00 FT BELOW LSD, JUNE 6, 1952.
LOWEST STATIC WATER LEVEL 188.00 FT BELOW LSD, JULY 18, 1955.
RECORDS AVAILABLE: 1947, 1952, 1955.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
SEP. 13, 1947	170	G	JUNE 6, 1952	165		JUNE 6, 1952	187.0	R	JULY 18, 1955	188.0	G
SEP. 13	217	C									

11N/8W-3E1 S. DEPTH 170 FT. IN 1948. CASING REMOVED AT END OF DRILLING IN 1948. ALTITUDE ABOUT 2,465 FT.
HIGHEST WATER LEVEL 167.00 FT BELOW LSD, SEP. , 1948.
LOWEST STATIC WATER LEVEL 167.00 FT BELOW LSD, SEP. , 1948.
RECORDS AVAILABLE: 1948.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 1948	167 G						

11N/8W-3J1 S. DEPTH 266 FT. IN MARCH 1954. ALTITUDE IS 2,472.5 FT.
HIGHEST WATER LEVEL 160.00 FT BELOW LSD, , 1954.
LOWEST STATIC WATER LEVEL 160.00 FT BELOW LSD, , 1954.
RECORDS AVAILABLE: 1954.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1954	160 G						

11N/8W-3Z3 S. DEPTH 414 FT. IN 1948. CASING REMOVED AT END OF DRILLING IN 1948. ALTITUDE ABOUT 2,472 FT.
HIGHEST WATER LEVEL 157.00 FT BELOW LSD, OCT. 9, 1948.
LOWEST STATIC WATER LEVEL 157.00 FT BELOW LSD, OCT. 9, 1948.
RECORDS AVAILABLE: 1948, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 9, 1948	157 G	JAN. 15, 1958	P				

11N/8W-10P1 S. DEPTH 239 FT. IN JUNE 1948. ALTITUDE ABOUT 2,435 FT.
HIGHEST WATER LEVEL 140.00 FT BELOW LSD, FEB. 25, 1953.
LOWEST STATIC WATER LEVEL 142.00 FT BELOW LSD, JUNE , 1948.
RECORDS AVAILABLE: 1948, 1952-53, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUNE 1948	142 G	APR. 19, 1952	140.22	FEB. 25, 1953	140.0	JAN. 15, 1958	140.46

11N/8W-11D1 S. DEPTH 512 FT. IN 1945. ALTITUDE IS 2,479.1 FT.
HIGHEST WATER LEVEL 168.00 FT BELOW LSD, JUNE 6, 1952.
LOWEST STATIC WATER LEVEL 171.00 FT BELOW LSD, MAY 19, 1956.
RECORDS AVAILABLE: 1952, 1956.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUNE 6, 1952	168	MAY 19, 1956	171 G				

11N/8W-12R1 S. DEPTH 353.8 FT. ON FEB. 25, 1953. ALTITUDE ABOUT 2,535 FT.
HIGHEST WATER LEVEL 224.10 FT BELOW LSD, FEB. 25, 1953.
LOWEST STATIC WATER LEVEL 225.5R FT BELOW LSD, JAN. 15, 1958.
RECORDS AVAILABLE: 1953, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 25, 1953	224.1	JAN. 15, 1958	225.5R				

11N/8W-15K1 S. DEPTH 364 FT. ON SEPT. 27, 1954 AND 483 FT. ON NOVEMBER 5, 1954. ALTITUDE IS 2,425.5 FT.
HIGHEST WATER LEVEL 159.05 FT BELOW LSD, JAN. 15, 1958.
LOWEST STATIC WATER LEVEL 163.00 FT BELOW LSD, SEP. 27, 1954, NOV. 5, 1954.
RECORDS AVAILABLE: 1954, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 27, 1954	163 G	NOV. 5, 1954	163 G	JAN. 15, 1958	159.05		

11N/8W-19K1 S. DEPTH 355.8 FT. ON JULY 30, 1952 AND 137.4 ON JANUARY 16, 1958. ALTITUDE ABOUT 2,350 FT.
HIGHEST WATER LEVEL 142.82 FT BELOW LSD, NOV. 3, 1952.
LOWEST STATIC WATER LEVEL 142.90 FT BELOW LSD, JULY 30, 1952.
RECORDS AVAILABLE: 1952, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 30, 1952	142.90	NOV. 3, 1952	142.82	JAN. 16, 1958	F		

11N/8W-19L1 S. DEPTH 361 FT. IN AUGUST 1955. ALTITUDE IS 2,356.1 FT.
HIGHEST WATER LEVEL 144.00 FT BELOW LSD, AUG. 4, 1955, JAN. 16, 1958.
LOWEST STATIC WATER LEVEL 144.00 FT BELOW LSD, AUG. 4, 1955, JAN. 16, 1958.
RECORDS AVAILABLE: 1955, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG. 4, 1955	144	JAN. 16, 1958	144.00				

11N/8W-20H1 S. DEPTH 213.9 FT. ON JANUARY 15, 1958 AND 223.5 FT. ON APRIL 17, 1965. ALTITUDE IS 2,379.1 FT.
HIGHEST WATER LEVEL 165.65 FT BELOW LSD, JUNE 28, 1951.
LOWEST STATIC WATER LEVEL 171.92 FT BELOW LSD, MAR. 13, 1967.
RECORDS AVAILABLE: 1951-53, 1958-67.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 8, 1951	165.67	SEP. 18, 1951	165.73	JAN. 15, 1958	166.11	MAR. 14, 1963	168.28
APR. 10	165.72	NOV. 15	165.75	MAR. 11, 1959	166.49	MAR. 3, 1964	168.91
MAY 7	165.72	MAR. 8, 1952	165.72	MAR. 3, 1960	167.02	APR. 17, 1965	169.90
JUNE 28	165.65	NOV. 3	165.71	MAR. 1, 1961	167.27	MAR. 8, 1966	170.89
JULY 25	165.76	MAR. 13, 1953	165.77	FEB. 26, 1962	167.81	MAR. 13, 1967	171.92
AUG. 21	165.72						

11N/8W-20H2 S. DEPTH 500 FT. ALTITUDE ABOUT 2,385 FT.
HIGHEST WATER LEVEL 170.80 FT BELOW LSD, FEB. 24, 1953.
LOWEST STATIC WATER LEVEL 172.12 FT BELOW LSD, JAN. 15, 1958.
RECORDS AVAILABLE: 1953, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 24, 1953	170.8	JAN. 15, 1958	172.12				

11N/8W-20H3 S. DEPTH 302 FT. ON MAY 19, 1962. ALTITUDE ABOUT 2,380 FT.
HIGHEST WATER LEVEL 170.00 FT BELOW LSD, MAY 19, 1962.
LOWEST STATIC WATER LEVEL 173.30 FT BELOW LSD, APR. 25, 1967.
RECORDS AVAILABLE: 1962, 1967.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 19, 1962	170 G	APR. 25, 1967	173.30				

11N/8W-28A1 S. DEPTH 950 FT. IN 1927 AND 320.9 FT. ON OCTOBER 15, 1956. ALTITUDE ABOUT 2,425 FT.
HIGHEST WATER LEVEL 197.00 FT BELOW LSD, OCT. 15, 1956.
LOWEST STATIC WATER LEVEL 200.00 FT BELOW LSD, JAN. 15, 1958.
RECORDS AVAILABLE: 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 15, 1956	197 G	JAN. 15, 1958	200				

11N/8W-26E1 S. DEPTH 175 FT. AND 0 FT. ON JANUARY 15, 1958. ALTITUDE ABOUT 2,385 FT.
HIGHEST WATER LEVEL 159.37 FT BELOW LSD, NOV. 3, 1952.
LOWEST STATIC WATER LEVEL 159.37 FT BELOW LSD, NOV. 3, 1952.
RECORDS AVAILABLE: 1952, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 3, 1952	159.37	JAN. 15, 1958	P				

11N/8W-28A1 S. DEPTH 175.1 FT. ON JANUARY 15, 1958. ALTITUDE ABOUT 2,380 FT.
HIGHEST WATER LEVEL 168.15 FT BELOW LSD, JAN. 15, 1958.
LOWEST STATIC WATER LEVEL 172.30 FT BELOW LSD, FEB. 25, 1953.
RECORDS AVAILABLE: 1953, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 25, 1953	172.3	JAN. 15, 1958	168.15				

11N/8W-29K1 S. DEPTH 495 FT. ON AUGUST 15, 1955. ALTITUDE IS 2,351.8 FT.
HIGHEST WATER LEVEL 139.24 FT BELOW LSD, JAN. 15, 1958.
LOWEST STATIC WATER LEVEL 148.32 FT BELOW LSD, MAR. 13, 1967.
RECORDS AVAILABLE: 1958-67.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1958	139.24	MAR. 1, 1961	140.61	MAR. 3, 1964	143.42	MAR. 8, 1966	146.63
MAR. 11, 1959	139.48	FEB. 26, 1962	141.36	APR. 17, 1965	145.17	MAR. 13, 1967	148.32
MAR. 3, 1960	140.08	MAR. 14, 1963	142.12				

11N/8W-30C1 S. ALTITUDE IS 2,342.6 FT.
HIGHEST WATER LEVEL 130.16 FT BELOW LSD, MAR. 6, 1956.
LOWEST STATIC WATER LEVEL 130.51 FT BELOW LSD, JAN. 16, 1958.
RECORDS AVAILABLE: 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 6, 1956	130.16	JAN. 16, 1958	130.51				

11N/8W-31P1 S. DEPTH 303 FT. ON AUGUST 19, 1955. ALTITUDE IS 2,322.1 FT.
HIGHEST WATER LEVEL 107.96 FT BELOW LSD, MAR. 6, 1956.
LOWEST STATIC WATER LEVEL 109.20 FT BELOW LSD, JAN. 15, 1958.
RECORDS AVAILABLE: 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 6, 1956	107.96	JAN. 15, 1958	109.20				

11N/8W-32G1 S. DEPTH 156.0 FT. ON JANUARY 16.1958. ALTITUDE IS 2,342.1 FT.
HIGHEST WATER LEVEL 128.56 FT BELOW LSD, JAN. 26, 1951.
LOWEST STATIC WATER LEVEL 133.33 FT BELOW LSD, OCT. 25, 1966.
RECORDS AVAILABLE: 1951-54, 1956-67.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 26, 1951	128.56	MAR. 8, 1952	128.60	NOV. 15, 1957	128.84	FEB. 26, 1962	129.81
FEB. 28	128.57	SEP. 3	128.58	FEB. 3, 1958	128.81	NOV. 5	130.07
APR. 10	128.58	NOV. 3	128.63	MAR. 10	128.86	MAR. 14, 1963	130.17
MAY 7	128.62	MAR. 13, 1953	128.62	APR. 9	128.86	NOV. 7	130.51
JUNE 28	128.59	MAY 5, 1954	128.66	MAY 14	128.89	MAR. 3, 1964	130.70
JULY 25	128.62	NOV. 29, 1956	128.83	NOV. 5	128.97	SEP. 18	131.19
AUG. 21	128.60	MAR. 7, 1957	128.82	MAR. 11, 1959	129.05	APR. 17, 1965	131.67
SEP. 18	128.60	APR. 30	128.73	DEC. 4	129.44	OCT. 19	132.23
OCT. 16	128.58	JUNE 5	128.81	MAR. 3, 1960	129.25	MAR. 8, 1966	132.66
NOV. 15	128.66	JULY 16	128.80	NOV. 16	129.44	OCT. 25	133.33
DEC. 21	128.67	AUG. 14	128.83	MAR. 1, 1961	129.51	MAR. 13, 1967	128.62
JAN. 16, 1952	128.60	SEP. 24	128.88	OCT. 25	129.70		

11N/8W-35D1 S. DEPTH 606 FT. ON AUGUST 9, 1955. ALTITUDE ABOUT 2,382.0 FT.
HIGHEST WATER LEVEL 167.44 FT BELOW LSD, JAN. 15, 1958.
LOWEST STATIC WATER LEVEL 191.10 FT BELOW LSD, MAR. 13, 1967.
RECORDS AVAILABLE: 1958-60, 1963, 1965, 1967.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1958	167.44	MAR. 3, 1960	174.27	APR. 17, 1965	192.1 A	MAR. 13, 1967	191.1
MAR. 11, 1959	174.11	MAR. 14, 1963	186.63B				

11N/8W-35N1 S. DEPTH 667 FT. ALTITUDE ABOUT 2,395 FT.
HIGHEST WATER LEVEL 210.00 FT BELOW LSD, NOV. 11, 1957.
LOWEST STATIC WATER LEVEL 210.00 FT BELOW LSD, NOV. 11, 1957.
RECORDS AVAILABLE: 1957.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 11, 1957	210 G						

11N/9W-6M1 S. DEPTH 178.5 FT. ON JULY 25, 1956 AND 167.0 FT. ON JANUARY 4, 1967. ALTITUDE ABOUT 2,350 FT.
HIGHEST WATER LEVEL 165.65 FT BELOW LSD, JULY 25, 1956.
LOWEST STATIC WATER LEVEL 167.69 FT BELOW LSD, DEC. 29, 1957.
RECORDS AVAILABLE: 1956-57, 1967.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 25, 1956	165.65	DEC. 29, 1957	167.69	JAN. 4, 1967	F		

11N/9W-6P1 S. DEPTH 235 FT. IN 1917 AND 2.0 FT. ON JULY 25, 1956. ALTITUDE ABOUT 2,350 FT.
HIGHEST WATER LEVEL 170.00 FT BELOW LSD. , 1917.
LOWEST STATIC WATER LEVEL 170.00 FT BELOW LSD. , 1917.
RECORDS AVAILABLE: 1917, 1956.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	170 P	JULY 25, 1956	P				

11N/9W-7M1 S. DEPTH 165.0 FT. ON APRIL 15, 1953 AND 0 FT. ON JANUARY 29, 1958. ALTITUDE ABOUT 2,335 FT.
HIGHEST WATER LEVEL 155.00 FT BELOW LSD, APR. 15, 1953.
LOWEST STATIC WATER LEVEL 155.00 FT BELOW LSD, APR. 15, 1953.
RECORDS AVAILABLE: 1953, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 15, 1953	155.0	JAN. 29, 1958	P				

11N/9W-12L1 S. DEPTH 200 FT. ON JULY 30, 1952 AND 155 FT. ON JANUARY 16, 1958. ALTITUDE ABOUT 2,385 FT.
HIGHEST WATER LEVEL 168.64 FT BELOW LSD, JULY 30, 1952.
LOWEST STATIC WATER LEVEL 168.64 FT BELOW LSD, JULY 30, 1952.
RECORDS AVAILABLE: 1952, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 30, 1952	168.64	JAN. 16, 1958	M				

11N/9W-13R1 S. DEPTH 188.0 FT. ON APRIL 21, 1952. ALTITUDE ABOUT 2,370 FT.
HIGHEST WATER LEVEL 134.38 FT BELOW LSD, APR. 21, 1952.
LOWEST STATIC WATER LEVEL 134.38 FT BELOW LSD, APR. 21, 1952.
RECORDS AVAILABLE: 1952, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 21, 1952	134.38	JAN. 16, 1958	P				

11N/9W-14R1 S. DEPTH 157.0 FT. ON JULY 30, 1952 AND 0 FT. ON JANUARY 16, 1958. ALTITUDE ABOUT 2,370 FT.
HIGHEST WATER LEVEL 156.78 FT BELOW LSD, JULY 30, 1952.
LOWEST STATIC WATER LEVEL 156.78 FT BELOW LSD, JULY 30, 1952.
RECORDS AVAILABLE: 1952, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 30, 1952	156.78	JAN. 16, 1958	P				

11N/9W-17N1 S. DEPTH 184.6 FT. ON JANUARY 29, 1958. ALTITUDE IS 2,319.9 FT.
HIGHEST WATER LEVEL 129.53 FT BELOW LSD, NOV. 3, 1952.
LOWEST STATIC WATER LEVEL 136.40 FT BELOW LSD, MAR. 13, 1967.
RECORDS AVAILABLE: 1951-67.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 11, 1951	129.56	NOV. 14, 1955	130.76	DEC. 4, 1959	131.58	NOV. 7, 1963	134.06
NOV. 15	129.58	MAR. 22, 1956	130.05	MAR. 2, 1960	131.60	MAR. 3, 1964	134.50
MAR. 8, 1952	129.58	NOV. 27	130.21	NOV. 16	131.92	SEP. 18	134.55
NOV. 3	129.53	MAR. 6, 1957	129.70	MAR. 1, 1961	132.08	APR. 17, 1965	134.95
MAR. 13, 1953	129.60	NOV. 19	130.58	OCT. 25	132.52	OCT. 19	135.28
APR. 16	129.55	MAR. 4, 1958	130.67	MAR. 1, 1962	132.76	MAR. 8, 1966	135.60
MAY 5, 1954	129.67	NOV. 5	130.90	NOV. 5	133.24	OCT. 25	136.06
MAR. 2, 1955	129.82	MAR. 10, 1959	131.16	MAR. 13, 1964	133.41	MAR. 13, 1967	136.40

11N/9W-18J1 S. DEPTH 140 FT. IN 1917 AND 86.4 FT. ON APRIL 11, 1951. ALTITUDE ABOUT 2,330 FT.
HIGHEST WATER LEVEL 106.00 FT BELOW LSD, . 1917.
LOWEST STATIC WATER LEVEL 106.00 FT BELOW LSD, . 1917.
RECORDS AVAILABLE: 1917, 1951.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	106	APR. 11, 1951	P				

11N/9W-19A1 S. DEPTH 175 FT. ON JANUARY 28, 1958. ALTITUDE ABOUT 2,320 FT.
HIGHEST WATER LEVEL 124.50 FT BELOW LSD, APR. 16, 1953.
LOWEST STATIC WATER LEVEL 124.50 FT BELOW LSD, APR. 16, 1953.
RECORDS AVAILABLE: 1953.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 16, 1953	124.50						

11N/9W-19D1 S. DEPTH 200 FT. ON NOVEMBER 21, 1962 AND 155.0 FT. ON APRIL 24, 1967. ALTITUDE ABOUT 2,400 FT.
HIGHEST WATER LEVEL 118.00 FT BELOW LSD, NOV. 21, 1962.
LOWEST STATIC WATER LEVEL 120.88 FT BELOW LSD, APR. 24, 1967.
RECORDS AVAILABLE: 1962, 1967.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 21, 1962	118 G	APR. 24, 1967	120.88				

11N/9W-22Q1 S. DEPTH 193 FT. ALTITUDE ABOUT 2,320 FT.
HIGHEST WATER LEVEL 105.61 FT BELOW LSD, JAN. 17, 1958.
LOWEST STATIC WATER LEVEL 106.77 FT BELOW LSD, MAR. 8, 1951.
RECORDS AVAILABLE: 1951-52, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 8, 1951	106.77	JUNE 28, 1951	110.25B	SEP. 18, 1951	105.70	NOV. 3, 1952	108.07A
APR. 10	106.00	JULY 2	105.85	NOV. 15	105.80	JAN. 17, 1958	105.61
MAY 7	105.84	AUG. 21	105.83	MAR. 8, 1952	107.02B		

11N/9W-23B3 S. DEPTH 260 FT. ON AUGUST 6, 1962. ALTITUDE ABOUT 2,350 FT.
HIGHEST WATER LEVEL 139.24 FT BELOW LSD, APR. 25, 1967.
LOWEST STATIC WATER LEVEL 148.00 FT BELOW LSD, AUG. 6, 1962.
RECORDS AVAILABLE: 1962, 1967.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG. 6, 1962	148 G	APR. 25, 1967	139.24				

11N/9W-24A1 S. DEPTH 888 FT. ON APRIL 8, 1955. ALTITUDE IS 2,348.5 FT.
HIGHEST WATER LEVEL 136.28 FT BELOW LSD, JAN. 16, 1958.
LOWEST STATIC WATER LEVEL 147.20 FT BELOW LSD, MAR. 13, 1967.
RECORDS AVAILABLE: 1958, 1967.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 16, 1958	136.28	MAR. 13, 1967	147.2				

11N/9W-24B1 S. DEPTH 150.4 FT. ON JANUARY 16, 1958. ALTITUDE IS 2,345.1 FT.
HIGHEST WATER LEVEL 129.88 FT BELOW LSD, APR. 21, 1953.
LOWEST STATIC WATER LEVEL 146.12 FT BELOW LSD, MAR. 8, 1966.
RECORDS AVAILABLE: 1952-53, 1958-66.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 21, 1952	131.29	JAN. 16, 1958	133.11	MAR. 1, 1961	139.86C	MAR. 3, 1964	144.64
NOV. 3	131.27	MAR. 11, 1959	137.11	FEB. 26, 1962	141.89C	APR. 17, 1965	148.12C
APR. 21, 1953	129.88	MAR. 2, 1960	137.91	MAR. 14, 1963	143.37C	MAR. 8, 1966	146.12

11N/9W-25L1 S. DEPTH 480 FT. ON JULY 16, 1955. ALTITUDE IS 2,324.0 FT.
HIGHEST WATER LEVEL 110.48 FT BELOW LSD, MAR. 6, 1956.
LOWEST STATIC WATER LEVEL 113.76 FT BELOW LSD, MAR. 2, 1960.
RECORDS AVAILABLE: 1956, 1958-60.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 6, 1956	110.48	JAN. 16, 1958	111.00	MAR. 11, 1959	112.29	MAR. 2, 1960	113.76

11N/9W-28C1 S. DEPTH 186.9 FT. ON JANUARY 17, 1958 AND 90.5 FT. ON MARCH 3, 1964. ALTITUDE IS 2,293.3 FT.
HIGHEST WATER LEVEL 87.34 FT BELOW LSD, JAN. 16, 1958.
LOWEST STATIC WATER LEVEL 90.29 FT BELOW LSD, MAR. 13, 1963.
RECORDS AVAILABLE: 1958-64.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 16, 1958	87.34	MAR. 2, 1960	87.90	MAR. 1, 1962	89.35	MAR. 3, 1964	F
MAR. 10, 1959	87.56	MAR. 1, 1961	88.49	MAR. 13, 1963	90.29		

11N/9W-28K2 S. DEPTH 301.5 FT. ON MARCH 27, 1961. ALTITUDE ABOUT 2,302 FT.
HIGHEST WATER LEVEL 90.00 FT BELOW LSD, MAR. 27, 1961.
LOWEST STATIC WATER LEVEL 90.00 FT BELOW LSD, MAR. 27, 1961.
RECORDS AVAILABLE: 1961.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 27, 1961	90 G						

11N/9W-28R1 S. DEPTH 200 FT. ALTITUDE ABOUT 2,295 FT.
HIGHEST WATER LEVEL 83.77 FT BELOW LSD, MAR. 6, 1956.
LOWEST STATIC WATER LEVEL 83.77 FT BELOW LSD, MAR. 6, 1956.
RECORDS AVAILABLE: 1956.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 6, 1956	83.77						

11N/9W-30H1 S. DEPTH 270 FT. IN 1956. ALTITUDE IS 2,298.3 FT.
HIGHEST WATER LEVEL 93.20 FT BELOW LSD, JAN. 28, 1958.
LOWEST STATIC WATER LEVEL 99.34 FT BELOW LSD, MAR. 13, 1967.
RECORDS AVAILABLE: 1958-67.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 28, 1958	93.20	MAR. 1, 1961	94.08	MAR. 3, 1964	96.48	MAR. 8, 1966	98.25
MAR. 10, 1959	93.28	MAR. 1, 1962	94.83	SEP. 18	96.75	MAR. 13, 1967	99.34
MAR. 2, 1960	93.48	MAR. 13, 1963	95.73	APR. 17, 1965	97.30		

11N/9W-30N1 S. DEPTH 200 FT. AND 167.3 FT. ON APRIL 17, 1965. ALTITUDE ABOUT 2,328 FT.

HIGHEST WATER LEVEL 115.14 FT BELOW LSD, JAN. 26, 1951, FEB. 28, 1951.
LOWEST STATIC WATER LEVEL 123.95 FT BELOW LSD, MAR. 13, 1967.
RECORDS AVAILABLE: 1951-52, 1956-67.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 26, 1951	115.14	NOV. 16, 1951	115.35	NOV. 5, 1958	116.06	MAR. 13, 1963	118.23
FEB. 28	115.14	DEC. 21	115.28	MAR. 11, 1959	116.20	NOV. 7	118.75
APR. 10	115.16	JAN. 16, 1952	118.14R	DEC. 4	116.29	MAR. 3, 1964	118.97
MAY 7	115.18	MAR. 8	116.59	MAR. 2, 1960	116.17	SEP. 18	119.19
JUNE 28	115.19	JULY 27, 1956	115.40	NOV. 16	116.45	APR. 17, 1965	119.82
JULY 25	115.34	MAR. 7, 1957	115.60	MAR. 1, 1961	116.77	OCT. 19	120.25
AUG. 21	115.61R	NOV. 15	115.91	OCT. 25	117.30	MAR. 8, 1966	120.74
SEP. 18	115.27	MAR. 4, 1958	115.81	MAR. 1, 1962	117.52	OCT. 25	121.41
OCT. 16	118.21R	MAR. 10	115.74	NOV. 5	118.00	MAR. 13, 1967	123.95

11N/9W-30Q1 S. DEPTH 169.1 FT. ON JANUARY 17, 1958. ALTITUDE IS 2,306.8 FT.
HIGHEST WATER LEVEL 99.90 FT BELOW LSD, NOV. 3, 1952.
LOWEST STATIC WATER LEVEL 104.00 FT BELOW LSD, JULY 27, 1956.
RECORDS AVAILABLE: 1952-56, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 5, 1952	99.99	MAR. 13, 1953	100.04R	DEC. 3, 1954	100.19	MAR. 22, 1956	100.34
APR. 18	99.98	MAR. 17, 1954	100.13	MAR. 2, 1955	100.24	JULY 27	104.00
SEP. 3	99.99	MAY 5	100.13	NOV. 14	100.47	JAN. 17, 1958	100.51
NOV. 3	99.90						

11N/9W-31D1 S. DEPTH 350 FT. ALTITUDE ABOUT 2,330 FT.
HIGHEST WATER LEVEL 113.54 FT BELOW LSD, MAR. 6, 1956.
LOWEST STATIC WATER LEVEL 113.54 FT BELOW LSD, MAR. 6, 1956.
RECORDS AVAILABLE: 1956.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 6, 1956	113.54						

11N/9W-34A1 S. DEPTH 193.5 FT. ON JANUARY 17, 1958. ALTITUDE IS 2,304.4 FT.
HIGHEST WATER LEVEL 93.11 FT BELOW LSD, JAN. 25, 1951.
LOWEST STATIC WATER LEVEL 105.93 FT BELOW LSD, OCT. 25, 1961.
RECORDS AVAILABLE: 1951-52, 1955-64.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 25, 1951	93.11	APR. 30, 1957	93.71	MAR. 10, 1958	93.91	MAR. 1, 1961	104.93
NOV. 15	93.28	JUNE 5	94.16R	APR. 9	93.92	OCT. 25	105.93
MAR. 18, 1952	93.19	JULY 16	93.77	MAY 14	93.92	MAR. 1, 1962	103.83
MAR. 2, 1955	93.57	AUG. 14	93.83	NOV. 5	94.19	NOV. 5	104.93
NOV. 14	93.56	SEP. 24	94.13R	MAR. 11, 1959	94.40	MAR. 13, 1963	97.73
MAR. 22, 1956	93.60	OCT. 16	93.79	DEC. 4	98.27	NOV. 7	97.72
NOV. 27	93.80	NOV. 15	93.75	MAR. 2, 1960	99.91R	MAR. 3, 1964	98.29
MAR. 7, 1957	93.68	FEB. 3, 1958	93.83	NOV. 16	102.60		

11N/9W-34K1 S. DEPTH 147 FT. ALTITUDE ABOUT 2,300 FT.
HIGHEST WATER LEVEL 80.75 FT BELOW LSD, JAN. 25, 1951.
LOWEST STATIC WATER LEVEL 85.00 FT BELOW LSD, MAY 16, 1956.
RECORDS AVAILABLE: 1951-53, 1956.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 25, 1951	80.75	JULY 25, 1951	80.80	NOV. 15, 1951	80.83	SEP. 3, 1952	80.88
FEB. 28	80.76	AUG. 21	80.79	DEC. 21	80.84	NOV. 3	80.91
APR. 10	80.77	SEP. 18	80.79	JAN. 16, 1952	80.81	MAR. 13, 1953	80.91
MAY 7	80.80	OCT. 16	80.80	MAR. 8	80.84	MAY 16, 1956	85 G
JUNE 28	80.82						

11N/9W-34K3 S. ALTITUDE ABOUT 2,300 FT.
HIGHEST WATER LEVEL 95.44 FT BELOW LSD, MAR. 8, 1966.
LOWEST STATIC WATER LEVEL 97.50 FT BELOW LSD, MAR. 13, 1967.
RECORDS AVAILABLE: 1966-67.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 8, 1966	95.44B	MAR. 13, 1967	97.50				

11N/9W-36A1 S. DEPTH 486 FT. ON JUNE 10, 1955. ALTITUDE IS 2,323.8 FT.
HIGHEST WATER LEVEL 111.50 FT BELOW LSD, MAR. 6, 1956.
LOWEST STATIC WATER LEVEL 121.95 FT BELOW LSD, APR. 7, 1967.
RECORDS AVAILABLE: 1956, 1958-67.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 6, 1956	111.50	MAR. 2, 1960	113.23	MAR. 14, 1963	116.36	MAR. 8, 1966	120.39
JAN. 16, 1958	111.64	MAR. 1, 1961	114.23	MAR. 3, 1964	117.95	MAR. 13, 1967	121.79
MAR. 11, 1959	112.46	FEB. 26, 1962	115.27	APR. 17, 1965	119.45	APR. 7	121.95

11N/9W-36C1 S. DEPTH 407 FT. IN JUNE 1955. ALTITUDE IS 2,320.0 FT.
HIGHEST WATER LEVEL 105.94 FT BELOW LSD, MAR. 6, 1956.
LOWEST STATIC WATER LEVEL 107.00 FT BELOW LSD, JULY 7, 1955.
RECORDS AVAILABLE: 1955-56, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 7, 1955	107 G	MAR. 6, 1956	105.94	JAN. 16, 1958	106.05		

11N/9W-36C2 S. DEPTH 348 FT. ON AUGUST 13, 1955. ALTITUDE ABOUT 2,325 FT.
HIGHEST WATER LEVEL 105.00 FT BELOW LSD, AUG. 13, 1955.
LOWEST STATIC WATER LEVEL 105.00 FT BELOW LSD, AUG. 13, 1955.
RECORDS AVAILABLE: 1955.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG. 13, 1955	105 G						

11N/9W-36C3 S. DEPTH 376 FT. ON AUGUST 13, 1955. ALTITUDE IS 2,315.4 FT.
HIGHEST WATER LEVEL 103.41 FT BELOW LSD, MAR. 6, 1956.
LOWEST STATIC WATER LEVEL 103.69 FT BELOW LSD, JAN. 16, 1958.
RECORDS AVAILABLE: 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 6, 1956	103.41	JAN. 16, 1958	103.69				

11N/9W-36D1 S. DEPTH 370 FT. ON JUNE 10, 1955. ALTITUDE IS 2,312.2 FT.
HIGHEST WATER LEVEL 100.34 FT BELOW LSD, MAR. 6, 1956.
LOWEST STATIC WATER LEVEL 105.74 FT BELOW LSD, JAN. 7, 1963.
RECORDS AVAILABLE: 1955-63.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG. 14, 1955	100.42G	JAN. 16, 1958	100.62	OCT. 7, 1959	102.05G	JULY 26, 1961	104.04G
MAR. 6, 1956	100.34	FEB. 27	100.70G	MAR. 24, 1960	102.52G	MAY 16, 1962	105.08G
JAN. 24, 1957	100.38G	JULY 8	101.01G	SEP. 21	103.30G	JAN. 7, 1963	105.74G
JULY 10	100.49G	DEC. 9	101.59G	FEB. 14, 1961	103.63G		

11N/9W-36H1 S. DEPTH 250 FT. ON JULY 5, 1955. ALTITUDE IS 2,316.5 FT.
HIGHEST WATER LEVEL 103.64 FT BELOW LSD, JAN. 24, 1957.
LOWEST STATIC WATER LEVEL 108.15 FT BELOW LSD, JULY 10, 1957.
RECORDS AVAILABLE: 1955-63.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG. 14, 1955	103.84G	JAN. 16, 1958	104.07	OCT. 7, 1959	104.46G	JULY 26, 1961	105.95G
MAR. 6, 1956	103.89	FEB. 20	103.76G	MAR. 24, 1960	104.76G	MAY 16, 1962	106.68G
JAN. 24, 1957	103.64G	JULY 8	103.85G	SEP. 21	105.21G	JAN. 16, 1963	107.24G
JULY 10	108.15G	DEC. 9	104.51G	FEB. 14, 1961	105.58G		

11N/9W-36R1 S. DEPTH 298 FT. IN APRIL 1953 AND 258.0 FT. ON APRIL 17, 1965. ALTITUDE IS 2,312.5 FT.
HIGHEST WATER LEVEL 98.25 FT BELOW LSD, MAY 5, 1954.
LOWEST STATIC WATER LEVEL 102.28 FT BELOW LSD, MAR. 13, 1967.
RECORDS AVAILABLE: 1954, 1956, 1958-67.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 5, 1954	98.25	MAR. 11, 1959	98.68	FEB. 26, 1962	99.51	APR. 17, 1965	101.04
JULY 27, 1956	98.45	MAR. 2, 1960	98.87	MAR. 14, 1963	99.87	MAR. 8, 1966	101.63
JAN. 16, 1958	98.49	MAR. 1, 1961	99.13	MAR. 3, 1964	100.39	MAR. 13, 1967	102.28

11N/10W-36B1 S. DEPTH 238 FT. AND 235.7 FT. ON APRIL 25, 1952. ALTITUDE ABOUT 2,345 FT.
HIGHEST WATER LEVEL 127.82 FT BELOW LSD, APR. 25, 1952.
LOWEST STATIC WATER LEVEL 127.82 FT BELOW LSD, APR. 25, 1952.
RECORDS AVAILABLE: 1952.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 25, 1952	127.82						

11N/10W-36H1 S. DEPTH 300 FT. IN 1953 AND 297 FT. ALTITUDE IS 2,337.0 FT.
HIGHEST WATER LEVEL 118.49 FT BELOW LSD, MAY 5, 1954.
LOWEST STATIC WATER LEVEL 118.68 FT BELOW LSD, JAN. 28, 1958.
RECORDS AVAILABLE: 1953-54, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 13, 1953	181 A	MAY 5, 1954	118.49	JAN. 28, 1958	118.68		

12N/8W-34A1 S. DEPTH TO OBSTRUCTION 214 FT. ON JANUARY 15, 1958. ALTITUDE ABOUT 2,540 FT.
HIGHEST WATER LEVEL 216.55 FT BELOW LSD, FEB. 25, 1953.
LOWEST STATIC WATER LEVEL 216.55 FT BELOW LSD, FEB. 25, 1953.
RECORDS AVAILABLE: 1953, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 25, 1953	216.55	JAN. 15, 1958	M				

12N/9W-35L1 S. DEPTH 821 FT. IN 1956. ALTITUDE ABOUT 2,450 FT.
HIGHEST WATER LEVEL 234.00 FT BELOW LSD, DEC. 12, 1956.
LOWEST STATIC WATER LEVEL 527.32 FT BELOW LSD, JAN. 3, 1967.
RECORDS AVAILABLE: 1956-57, 1963, 1967.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 12, 1956	234.0 G	NOV. 22, 1957	255.64	JAN. 18, 1963	417	JAN. 3, 1967	527.32

12N/10W-31Z1 S. DEPTH 380 FT. IN 1917. ALTITUDE ABOUT 2,420 FT.
HIGHEST WATER LEVEL 156.00 FT BELOW LSD, , 1917.
LOWEST STATIC WATER LEVEL 156.00 FT BELOW LSD, , 1917.
RECORDS AVAILABLE: 1917.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	156	JULY 26, 1956	P				

12N/10W-34Q1 S. DEPTH 113.2 FT. ON JULY 23, 1956. ALTITUDE ABOUT 2,380 FT.
RECORDS AVAILABLE: 1917, 1956.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	F	MAR. 23, 1956	F				

12N/10W-35P1 S. DEPTH 378 FT. IN 1917, 271.8 FT. ON DECEMBER 3, 1954, AND 194.1 FT. ON JANUARY 29, 1958. ALTITUDE ABOUT 2,365 FT.
HIGHEST WATER LEVEL 193.47 FT BELOW LSD, MAR. 8, 1952.
LOWEST STATIC WATER LEVEL 197.30 FT BELOW LSD, APR. 16, 1953.
RECORDS AVAILABLE: 1918, 1951-54, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 5, 1918	199 8	MAR. 8, 1952	193.47	APR. 16, 1953	197.3	DEC. 3, 1954	F
APR. 11, 1951	193.53	SEP. 10	193.50	APR. 21	195.47	JAN. 29, 1958	F
NOV. 15	193.48	FEB. 9, 1953	193.60				

29S/37E-34B1 M. DEPTH 60 FT. IN 1917, 100 FT. IN 1955 AND 54.7 FT. ON JULY 20, 1962. ALTITUDE ABOUT 2,590 FT.
HIGHEST WATER LEVEL 8.70 FT BELOW LSD, FEB. 27, 1958.
LOWEST STATIC WATER LEVEL 9.75 FT BELOW LSD, JULY 20, 1962.
RECORDS AVAILABLE: 1958, 1962.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 27, 1958	8.70	JULY 20, 1962	9.75				

29S/39E-12L2 M. DEPTH 520 FT. IN 1917 AND 350.2 FT. ON FEBRUARY 27, 1958. ALTITUDE ABOUT 2,558 FT.
HIGHEST WATER LEVEL 460.00 FT BELOW LSD, , 1917.
LOWEST STATIC WATER LEVEL 460.00 FT BELOW LSD, , 1917.
RECORDS AVAILABLE: 1917, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	460	FEB. 27, 1958	F				

29S/39E-12L3 M. DEPTH 1,400 FT. IN 1917 AND OVER 600 FT. ON FEBRUARY 27, 1958. ALTITUDE ABOUT 2,510 FT.
HIGHEST WATER LEVEL 392.08 FT BELOW LSD, FEB. 27, 1958.
LOWEST STATIC WATER LEVEL 440.00 FT BELOW LSD, , 1917.
RECORDS AVAILABLE: 1917, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	440	FEB. 27, 1958	392.08				

29S/39E-15E1 M. DEPTH 65.2 FT. ON OCTOBER 2, 1917 AND 56.2 FT. ON FEBRUARY 13, 1958. ALTITUDE ABOUT 2,230 FT.
HIGHEST WATER LEVEL 55.70 FT BELOW LSD, OCT. 2, 1917.
LOWEST STATIC WATER LEVEL 55.70 FT BELOW LSD, OCT. 2, 1917.
RECORDS AVAILABLE: 1917, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1917	55.7	FEB. 13, 1958	F				

29S/39E-15M1 M. DEPTH 30 FT. IN 1917, 80 FT. ON FEBRUARY 13, 1958, AND 73 FT. ON APRIL 1, 1960. ALTITUDE ABOUT 2,295 FT.
HIGHEST WATER LEVEL 63.85 FT BELOW LSD, FEB. 13, 1958.
LOWEST STATIC WATER LEVEL 65.00 FT BELOW LSD, APR. 1, 1960.
RECORDS AVAILABLE: 1917, 1958, 1960.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	F	FEB. 13, 1958	63.85	APR. 1, 1960	65 G		

29S/39E-22D1 M. DEPTH 48 FT. ON OCTOBER 2, 1917, 58.2 FT. ON APRIL 23, 1953; AND 56.4 FT. ON FEBRUARY 13, 1958. ALTITUDE ABOUT 2,160 FT.
HIGHEST WATER LEVEL 42.10 FT BELOW LSD, OCT. 2, 1917.
LOWEST STATIC WATER LEVEL 49.31 FT BELOW LSD, APR. 23, 1953.
RECORDS AVAILABLE: 1917T53T5.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1917	42.1	APR. 23, 1953	49.31	FEB. 13, 1958	48.37		

29S/39E-22D2 M. DEPTH 46 FT. IN 1917 AND 6.0 FT. ON FEBRUARY 13, 1958. ALTITUDE ABOUT 2,160 FT.
HIGHEST WATER LEVEL 20.00 FT BELOW LSD, , 1917.
LOWEST STATIC WATER LEVEL 20.00 FT BELOW LSD, , 1917.
RECORDS AVAILABLE: 1917, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	20	FEB. 13, 1958	P				

29S/39E-22E1 M. DEPTH 102 FT. ON OCTOBER 2, 1917 AND 71.1 FT. ON FEBRUARY 12, 1958. ALTITUDE ABOUT 2,140 FT.
HIGHEST WATER LEVEL 28.00 FT BELOW LSD, OCT. 2, 1917.
LOWEST STATIC WATER LEVEL 28.00 FT BELOW LSD, OCT. 2, 1917.
RECORDS AVAILABLE: 1917, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1917	28.0	FEB. 12, 1958	F				

29S/39E-23J1 M. DEPTH 600 FT. ALTITUDE ABOUT 2,280 FT.
HIGHEST WATER LEVEL 350.00 FT BELOW LSD, JULY 26, 1954.
LOWEST STATIC WATER LEVEL 350.00 FT BELOW LSD, JULY 26, 1954.
RECORDS AVAILABLE: 1954.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 26, 1954	350 G						

29S/39E-27K1 M. DEPTH 124.3 FT. ON FEBRUARY 13, 1958. ALTITUDE ABOUT 2,145 FT.
HIGHEST WATER LEVEL 200.00 FT BELOW LSD. , 1917.
LOWEST STATIC WATER LEVEL 200.00 FT BELOW LSD. , 1917.
RECORDS AVAILABLE: 1917, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	200	FEB. 13, 1958	F				

29S/39E-28H1 M. DEPTH 205.7 FT. ON APRIL 30, 1953 AND 180.6 FT. ON OCTOBER 17, 1966. ALTITUDE 2,100 FT.
HIGHEST WATER LEVEL 173.09 FT BELOW LSD. APR. 30, 1953.
LOWEST STATIC WATER LEVEL 180.00 FT BELOW LSD. MAR. 9, 1966.
RECORDS AVAILABLE: 1953-66.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 30, 1953	173.09	MAR. 6, 1957	174.28	NOV. 10, 1960	175.75	MAR. 4, 1964	176.43
MAR. 17, 1954	173.23	NOV. 22	174.59	FEB. 27, 1961	175.87	OCT. 7	176.54
DEC. 3	173.50	FEB. 13, 1958	174.50	NOV. 14	176.80	MAR. 16, 1965	176.52
MAR. 2, 1955	173.57	NOV. 4	174.76	MAR. 14, 1962	176.01	OCT. 18	177.60
NOV. 15	173.82	MAR. 10, 1959	174.83	NOV. 9	176.24	MAR. 9, 1966	180
MAR. 20, 1956	173.93	DEC. 2	175.30	MAR. 13, 1963	176.48	OCT. 17	176.79
NOV. 28	174.16	FEB. 26, 1960	175.20	NOV. 6	177.42		

29S/39E-32C1 M. DEPTH 238 FT. IN NOVEMBER 1949. ALTITUDE ABOUT 1,990 FT.
HIGHEST WATER LEVEL 76.01 FT BELOW LSD. OCT. 11, 1956.
LOWEST STATIC WATER LEVEL 78.85 FT BELOW LSD. FEB. 13, 1958.
RECORDS AVAILABLE: 1949, 1953, 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1949	77.5 G	APR. 23, 1953	79.3 C	OCT. 11, 1956	76.01	FEB. 13, 1958	78.85

29S/39E-32E1 M. DEPTH 125 FT. ALTITUDE ABOUT 1,965 FT.
HIGHEST WATER LEVEL 54.06 FT BELOW LSD. OCT. 11, 1956.
LOWEST STATIC WATER LEVEL 54.18 FT BELOW LSD. FEB. 13, 1958.
RECORDS AVAILABLE: 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 11, 1956	54.06	FEB. 13, 1958	54.18				

29S/39E-32J1 M. DEPTH 295 FT. IN 1917 AND 0 FT. ON FEBRUARY 14, 1958. ALTITUDE ABOUT 2,020 FT.
HIGHEST WATER LEVEL 90.00 FT BELOW LSD. , 1917.
LOWEST STATIC WATER LEVEL 90.00 FT BELOW LSD. , 1917.
RECORDS AVAILABLE: 1917, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	90	FEB. 13, 1958	P				

29S/39E-33C1 M. DEPTH 300 FT. IN 1917 AND 31.3 FT. ON FEBRUARY 13, 1958. ALTITUDE ABOUT 2,055 FT.
HIGHEST WATER LEVEL 130.00 FT BELOW LSD. , 1917.
LOWEST STATIC WATER LEVEL 130.00 FT BELOW LSD. , 1917.
RECORDS AVAILABLE: 1917, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	130	FEB. 13, 1958	F				

30S/37E-12N1 M. DEPTH 160 FT. ALTITUDE ABOUT 2,180 FT.
HIGHEST WATER LEVEL 104.80 FT BELOW LSD, APR. 23, 1953.
LOWEST STATIC WATER LEVEL 107.15 FT BELOW LSD, AUG. 27, 1956.
RECORDS AVAILABLE: 1953, 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 23, 1953	104.80	AUG. 27, 1956	107.15	FEB. 27, 1958	106.57		

30S/37E-23D1 M. ALTITUDE ABOUT 2,120 FT.
HIGHEST WATER LEVEL 182.85 FT BELOW LSD, JULY 27, 1956.
LOWEST STATIC WATER LEVEL 184.69 FT BELOW LSD, FEB. 26, 1958.
RECORDS AVAILABLE: 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 27, 1956	182.85	FEB. 26, 1958	184.69				

30S/37E-23J1 M. ALTITUDE ABOUT 2,010 FT.
HIGHEST WATER LEVEL 55.74 FT BELOW LSD, MAR. 18, 1953.
LOWEST STATIC WATER LEVEL 55.74 FT BELOW LSD, MAR. 18, 1953.
RECORDS AVAILABLE: 1953.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 18, 1953	55.74						

30S/37E-23J3 M. DEPTH 431 FT. IN 1919. ALTITUDE ABOUT 2,015 FT.
HIGHEST WATER LEVEL 57.00 FT BELOW LSD, SEP. 2, 1948.
LOWEST STATIC WATER LEVEL 60.40 FT BELOW LSD. , 1919.
RECORDS AVAILABLE: 1919, 1948.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1919	60.4	SEP. 2, 1948	57 6				

30S/37E-24G1 M. ALTITUDE ABOUT 2,000 FT.
HIGHEST WATER LEVEL 48.01 FT BELOW LSD, MAY 5, 1953.
LOWEST STATIC WATER LEVEL 50.73 FT BELOW LSD, FEB. 26, 1958.
RECORDS AVAILABLE: 1953, 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 5, 1953	48.01	AUG. 29, 1956	49.33	FEB. 26, 1958	50.73		

30S/37E-24J1 M. DEPTH 107.9 FT. ON FEBRUARY 26, 1958. ALTITUDE ABOUT 1,975 FT.
HIGHEST WATER LEVEL 25.50 FT BELOW LSD, AUG. 29, 1956.
LOWEST STATIC WATER LEVEL 52.47 FT BELOW LSD, OCT. 17, 1966.
RECORDS AVAILABLE: 1956, 1958, 1963-67.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG. 29, 1956	25.50	MAR. 4, 1964	41.76	OCT. 18, 1965	49.60	OCT. 17, 1966	52.47
FEB. 26, 1958	25.75	OCT. 7	47.64	MAR. 9, 1966	47.22	APR. 12, 1967	51.46
NOV. 7, 1963	43.63	MAR. 16, 1965	45.88				

30S/37E-24K1 M. DEPTH 211 FT. IN OCTOBER 1952. ALTITUDE ABOUT 1,980 FT.
HIGHEST WATER LEVEL 22.23 FT BELOW LSD, AUG. 29, 1956.
LOWEST STATIC WATER LEVEL 23.66 FT BELOW LSD, FEB. 26, 1958.
RECORDS AVAILABLE: 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG. 29, 1956	22.23	FEB. 26, 1958	23.66				

30S/37E-24K2 M. DEPTH 120 FT. ALTITUDE ABOUT 1,980 FT.
HIGHEST WATER LEVEL 27.55 FT BELOW LSD, AUG. 29, 1956.
LOWEST STATIC WATER LEVEL 28.23 FT BELOW LSD, FEB. 26, 1958.
RECORDS AVAILABLE: 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG. 29, 1956	27.55	FEB. 26, 1958	28.23				

30S/37E-24M1 M. DEPTH 55 FT. ON NOVEMBER 9, 1962. ALTITUDE ABOUT 1,987 FT.
HIGHEST WATER LEVEL 32.64 FT BELOW LSD, MAR. 18, 1953.
LOWEST STATIC WATER LEVEL 54.56 FT BELOW LSD, MAR. 14, 1962.
RECORDS AVAILABLE: 1929, 1953-62.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1929	37.50G	NOV. 15, 1955	41.36	FEB. 26, 1958	43.77	NOV. 10, 1960	51.81
MAR. 18, 1953	32.64	MAR. 19, 1956	40.90	NOV. 5	45.68	FEB. 27, 1961	51.94
FEB. 17, 1954	39.21	NOV. 27	42.22	MAR. 10, 1959	46.01	NOV. 14	54.20
NOV. 30	41.15	MAR. 6, 1957	41.95	DEC. 2	48.82	MAR. 14, 1962	54.56
MAR. 2, 1955	40.85	NOV. 22	43.84	FEB. 26, 1960	49.17	NOV. 9	F

30S/37E-24R1 M. DEPTH 197.0 FT. ON FEBRUARY 26, 1958. ALTITUDE ABOUT 1,955 FT.
HIGHEST WATER LEVEL 3.75 FT BELOW LSD, AUG. 30, 1956.
LOWEST STATIC WATER LEVEL 3.97 FT BELOW LSD, FEB. 26, 1958.
RECORDS AVAILABLE: 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG. 30, 1956	3.75	FEB. 26, 1958	3.97				

30S/37E-24R2 M. DEPTH 163 FT. ALTITUDE ABOUT 1,945 FT.
HIGHEST WATER LEVEL 2.00 FT ABOVE LSD, OCT. 3, 1929, MAY 6, 1953.
LOWEST STATIC WATER LEVEL 0.80 FT BELOW LSD, AUG. 30, 1956.
RECORDS AVAILABLE: 1929, 1953, 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1929 +	2.0 O	MAY 6, 1953 +	2.0 O	AUG. 30, 1956	.80	FEB. 26, 1958 +	.800

30S/37E-25J1 M. DEPTH 692 FT. ALTITUDE ABOUT 1,978 FT.
HIGHEST WATER LEVEL 29.32 FT BELOW LSD, MAR. 17, 1953.
LOWEST STATIC WATER LEVEL 33.88 FT BELOW LSD, FEB. 26, 1958.
RECORDS AVAILABLE: 1953, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 17, 1953	29.32	FEB. 26, 1958	33.88				

30S/37E-26D1 M. DEPTH 77.7 FT. ON JULY 27, 1956. ALTITUDE ABOUT 2,034 FT.
HIGHEST WATER LEVEL 78.15 FT BELOW LSD, MAR. 17, 1953.
LOWEST STATIC WATER LEVEL 78.15 FT BELOW LSD, MAR. 17, 1953.
RECORDS AVAILABLE: 1953, 1956.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 17, 1953	78.15	JULY 27, 1956	F				

30S/37E-26E1 M. DEPTH 485 FT. IN 1950. ALTITUDE ABOUT 2,035 FT.
HIGHEST WATER LEVEL 80.51 FT BELOW LSD, FEB. 26, 1958.
LOWEST STATIC WATER LEVEL 81.89 FT BELOW LSD, JULY 27, 1956.
RECORDS AVAILABLE: 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 27, 1956	81.89	FEB. 26, 1958	80.51				

30S/37E-26K1 M. DEPTH 640 FT. IN 1914 AND 55.0 ON JULY 27,1956. ALTITUDE ABOUT 2,000 FT.
HIGHEST WATER LEVEL 49.46 FT BELOW LSD, JULY 27, 1956.
LOWEST STATIC WATER LEVEL 60.00 FT BELOW LSD, , 1917.
RECORDS AVAILABLE: 1917, 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	60	JULY 27, 1956	49.46	FEB. 26, 1958	52.38		

30S/37E-26M2 M. DEPTH 100 FT. ALTITUDE ABOUT 2,030 FT.
HIGHEST WATER LEVEL 65.00 FT BELOW LSD, , 1952.
LOWEST STATIC WATER LEVEL 65.00 FT BELOW LSD, , 1952.
RECORDS AVAILABLE: 1952, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1952	65 G						

30S/37E-26Z1 M. DEPTH 350 FT. IN 1917. ALTITUDE ABOUT 2,034 FT.
HIGHEST WATER LEVEL 65.00 FT BELOW LSD, , 1917.
LOWEST STATIC WATER LEVEL 65.00 FT BELOW LSD, , 1917.
RECORDS AVAILABLE: 1917, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	65	FEB. 26, 1958	P				

30S/37E-27H1 M. DEPTH 220 FT. ALTITUDE ABOUT 2,034 FT.
HIGHEST WATER LEVEL 87.00 FT BELOW LSD, MAR. 12, 1953.
LOWEST STATIC WATER LEVEL 94.14 FT BELOW LSD, FEB. 26, 1958.
RECORDS AVAILABLE: 1953, 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 12, 1953	87 G	JULY 27, 1956	91.49	FEB. 26, 1958	94.14		

30S/37E-27P1 M. ALTITUDE ABOUT 2,060 FT.
HIGHEST WATER LEVEL 118.41 FT BELOW LSD, FEB. 26, 1958.
LOWEST STATIC WATER LEVEL 119.40 FT BELOW LSD, AUG. 18, 1953.
RECORDS AVAILABLE: 1953, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG. 18, 1953	119.4	FEB. 26, 1958	118.41				

30S/37E-34R1 M. DEPTH 141 FT. ALTITUDE ABOUT 2,040 FT.
HIGHEST WATER LEVEL 79.30 FT BELOW LSD, MAR. 12, 1953.
LOWEST STATIC WATER LEVEL. 79.30 FT BELOW LSD. MAR. 12, 1953.
RECORDS AVAILABLE: 1953.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 12, 1953	79.3						

30S/37E-34F1 M. ALTITUDE ABOUT 2,030 FT.
HIGHEST WATER LEVEL 76.31 FT BELOW LSD, JULY 27, 1956.
LOWEST STATIC WATER LEVEL 78.84 FT BELOW LSD, FEB. 26, 1958.
RECORDS AVAILABLE: 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 27, 1956	76.31	FEB. 26, 1958	78.84				

30S/37E-34H1 M. ALTITUDE ABOUT 2,018 FT.
HIGHEST WATER LEVEL 47.00 FT BELOW LSD, , 1952.
LOWEST STATIC WATER LEVEL 69.16 FT BELOW LSD, FEB. 26, 1958.
RECORDS AVAILABLE: 1952-53, 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1952	47 G	FEB. 12, 1953	55.2	JULY 27, 1956	67.55	FEB. 26, 1958	69.16

30S/37E-36G1 M. DEPTH 938 FT. BEFORE 1917. ALTITUDE IS 1,981.0 FT.
HIGHEST WATER LEVEL 18.00 FT BELOW LSD, OCT. 29, 1929.
LOWEST STATIC WATER LEVEL 60.39 FT BELOW LSD, OCT. 18, 1965.
RECORDS AVAILABLE: 1917, 1929, 1953, 1958, 1960-67.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	0	NOV. 10, 1960	39.68	MAR. 13, 1963	56.07B	OCT. 18, 1965	60.39
OCT. 29, 1929	18.0 G	FEB. 27, 1961	40.05	NOV. 7	53.48	MAR. 9, 1966	52.81
MAR. 12, 1953	29.32	NOV. 14	48.84	OCT. 7, 1964	57.92	OCT. 17	59.90
JAN. 31, 1958	33.31	MAR. 14, 1962	49.78	MAR. 16, 1965	54.87	APR. 12, 1967	59.31
MAR. 10, 1960	40.62B	NOV. 9	50.77				

30S/37E-36K1 M. DEPTH 527 FT. ALTITUDE ABOUT 2,005 FT.
HIGHEST WATER LEVEL 50.28 FT BELOW LSD, JAN. 31, 1958.
LOWEST STATIC WATER LEVEL 62.82 FT BELOW LSD, MAR. 11, 1953.
RECORDS AVAILABLE: 1953, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 11, 1953	62.82	JAN. 31, 1958	50.28				

30S/37E-36N1 M. DEPTH 590 FT. ALTITUDE ABOUT 2,015 FT.
HIGHEST WATER LEVEL 53.90 FT BELOW LSD, MAR. 11, 1953.
LOWEST STATIC WATER LEVEL 184.60 FT BELOW LSD, APR. 12, 1967.
RECORDS AVAILABLE: 1953, 1958, 1967.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 11, 1953	53.9	JAN. 31, 1958	71.52	APR. 12, 1967	184.60		

30S/38E-3J1 M. ALTITUDE ABOUT 1,900 FT.
HIGHEST WATER LEVEL 44.66 FT BELOW LSD, APR. 12, 1967.
LOWEST STATIC WATER LEVEL 56.02 FT BELOW LSD, OCT. 11, 1956.
RECORDS AVAILABLE: 1956, 1967.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 11, 1956	56.02	APR. 12, 1967	44.66				

30S/38E-5A1 M. DEPTH 140 FT. ALTITUDE ABOUT 1,994 FT.
HIGHEST WATER LEVEL 100.31 FT BELOW LSD, OCT. 10, 1956.
LOWEST STATIC WATER LEVEL 100.35 FT BELOW LSD, FEB. 3, 1958.
RECORDS AVAILABLE: 1953, 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 23, 1953	117.05B	OCT. 10, 1956	100.31	FEB. 3, 1958	100.35		

30S/38E-5R1 M. DEPTH 31.0 FT ON MAY 5, 1953. ALTITUDE ABOUT 1,914 FT.
HIGHEST WATER LEVEL 14.32 FT BELOW LSD, MAY 5, 1953.
LOWEST STATIC WATER LEVEL 14.89 FT BELOW LSD, FEB. 14, 1958.
RECORDS AVAILABLE: 1953, 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 5, 1953	14.32	OCT. 10, 1956	14.50	FEB. 14, 1958	14.89		

30S/38E-8G1 M. DEPTH 19 FT. IN 1917 AND 12.8 FT. ON MAY 5, 1953. ALTITUDE ABOUT 1,930 FT.
HIGHEST WATER LEVEL 2.38 FT BELOW LSD, MAY 5, 1953.
LOWEST STATIC WATER LEVEL 3.31 FT BELOW LSD, FEB. 14, 1958.
RECORDS AVAILABLE: 1917, 1953, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	0	MAY 5, 1953	2.38	FEB. 14, 1958	3.31		

30S/38E-8J1 M. ALTITUDE ABOUT 1,900 FT.
RECORDS AVAILABLE: 1953, 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 5, 1953	0	OCT. 10, 1956	0	FEB. 14, 1958	0		

30S/38E-8K1 M. DEPTH 32 FT. ALTITUDE ABOUT 1,930 FT.
HIGHEST WATER LEVEL 1.42 FT ABOVE LSD, FEB. 14, 1958.
LOWEST STATIC WATER LEVEL 1.01 FT BELOW LSD, OCT. 10, 1956.
RECORDS AVAILABLE: 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 10, 1956	1.01	FEB. 14, 1958 +	1.42				

30S/38E-8K2 M. DEPTH 275 FT. ALTITUDE ABOUT 1,930 FT.
HIGHEST WATER LEVEL 7.20 FT BELOW LSD, OCT. 10, 1956.
LOWEST STATIC WATER LEVEL 7.20 FT BELOW LSD, OCT. 10, 1956.
RECORDS AVAILABLE: 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 10, 1956	7.20	FEB. 14, 1958	0				

30S/38E-8N1 M. DEPTH 52FT. ALTITUDE ABOUT 1,955 FT.
HIGHEST WATER LEVEL 21.90 FT BELOW LSD, MAR. 17, 1954.
LOWEST STATIC WATER LEVEL 23.42 FT BELOW LSD, OCT. 10, 1956.
RECORDS AVAILABLE: 1953-56, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 5, 1953	22.89	NOV. 30, 1954	22.23	OCT. 10, 1956	23.42	FEB. 14, 1958	25.458
MAR. 17, 1954	21.90	MAR. 2, 1955	22.50				

30S/38E-19K1 M. DEPTH 828 FT. IN 1917. ALTITUDE ABOUT 1,960 FT.
HIGHEST WATER LEVEL 4.00 FT BELOW LSD, , 1917.
LOWEST STATIC WATER LEVEL 15.58 FT BELOW LSD, FEB. 26, 1958.
RECORDS AVAILABLE: 1917, 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	4	AUG. 30, 1956	24.958	FEB. 26, 1958	15.58		

30S/38E-19M1 M. DEPTH 1,190 FT. IN 1911 AND 880 FT. IN 1917. ALTITUDE ABOUT 1,966 FT.
HIGHEST WATER LEVEL 12.00 FT BELOW LSD, , 1917.
LOWEST STATIC WATER LEVEL 24.16 FT BELOW LSD, AUG. 29, 1956.
RECORDS AVAILABLE: 1917, 1953, 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	12	MAY 5, 1953	105.5 A	AUG. 29, 1956	24.16	FEB. 26, 1958	21.91

30S/38E-20C1 M. DEPTH 180 FT. ON OCTOBER 10, 1956 AND 142.3 FT. ON FEBRUARY 14, 1958.
ALTITUDE ABOUT 1,920 FT.
HIGHEST WATER LEVEL 1.60 FT ABOVE LSD, FEB. 14, 1958.
LOWEST STATIC WATER LEVEL 1.60 FT ABOVE LSD, FEB. 14, 1958.
RECORDS AVAILABLE: 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 10, 1956	0	FEB. 14, 1958 +	1.6 0				

30S/38E-20E1 M. DEPTH 130 FT. IN 1917 AND 24.0 FT. ON FEBRUARY 25, 1958. ALTITUDE ABOUT 1,928 FT.
HIGHEST WATER LEVEL 6.00 FT BELOW LSD, , 1917.
LOWEST STATIC WATER LEVEL 6.48 FT BELOW LSD, FEB. 25, 1958.
RECORDS AVAILABLE: 1917, 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	6	OCT. 10, 1956	6.22	FEB. 25, 1958	6.48		

30S/38E-20F1 M. DEPTH 205 FT. ALTITUDE ABOUT 1,928 FT.
HIGHEST WATER LEVEL 1.50 FT BELOW LSD, OCT. 10, 1956.
LOWEST STATIC WATER LEVEL 3.52 FT BELOW LSD, FEB. 26, 1958.
RECORDS AVAILABLE: 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 10, 1956	1.50	FEB. 26, 1958	3.52				

30S/38E-21D1 M. ALTITUDE ABOUT 1,898 FT.
HIGHEST WATER LEVEL 2.00 FT ABOVE LSD, MAY 12, 1953.
LOWEST STATIC WATER LEVEL 0.70 FT ABOVE LSD, OCT. 10, 1956.
RECORDS AVAILABLE: 1953, 1956.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 12, 1953 +	2.0 Q	OCT. 10, 1956 +	.7				

30S/38E-24F1 M. DEPTH 445.9 FT. ON FEBRUARY 12, 1958. ALTITUDE ABOUT 1,940 FT.
HIGHEST WATER LEVEL 12.19 FT BELOW LSD, MAY 7, 1953.
LOWEST STATIC WATER LEVEL 18.80 FT BELOW LSD, APR. 12, 1967.
RECORDS AVAILABLE: 1953, 1958, 1967.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 7, 1953	12.19	FEB. 12, 1958	13.02	APR. 12, 1967	18.80		

30S/38E-28D1 M. DEPTH 152 FT. ALTITUDE ABOUT 1,910 FT.
RECORDS AVAILABLE: 1953, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 7, 1953	Q	FEB. 12, 1958	Q				

30S/38E-29Z1 M. DEPTH 600 FT. IN 1917 AND 0 FT. ON JANUARY 31, 1958. ALTITUDE ABOUT 1,930 FT.
RECORDS AVAILABLE: 1917, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	Q	JAN. 31, 1958	P				

30S/38E-30R1 M. ALTITUDE ABOUT 1,940 FT.
RECORDS AVAILABLE: 1929, 1953, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1929	Q	MAY 6, 1953	Q	FEB. 26, 1958	Q		

30S/38E-30Q2 M. DEPTH 2.6 FT. ON FEBRUARY 28, 1956. ALTITUDE ABOUT 1,935 FT.
RECORDS AVAILABLE: 1917, 1956.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	Q	FEB. 28, 1956	P				

30S/38E-30E1 M. ALTITUDE ABOUT 1,946 FT.
HIGHEST WATER LEVEL 3.61 FT BELOW LSD, MAY 13, 1953.
LOWEST STATIC WATER LEVEL 4.15 FT BELOW LSD, JAN. 31, 1958.
RECORDS AVAILABLE: 1917, 1929, 1953, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	Q	OCT. 3, 1929	Q	MAY 13, 1953	3.61	JAN. 31, 1958	4.15

30S/38E-30R1 M. DEPTH 80 FT. ALTITUDE ABOUT1,955 FT.
HIGHEST WATER LEVEL 14.23 FT BELOW LSD, JAN. 31, 1958.
LOWEST STATIC WATER LEVEL 16.10 FT BELOW LSD, MAY 7, 1953.
RECORDS AVAILABLE: 1917, 1953, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	0	MAY 7, 1953	16.10	JAN. 31, 1958	14.23		

30S/38E-31F1 M. DEPTH 658 FT. ALTITUDE ABOUT 1,980 FT.
HIGHEST WATER LEVEL 50.50 FT BELOW LSD, JAN. 30, 1958.
LOWEST STATIC WATER LEVEL 50.50 FT BELOW LSD, JAN. 30, 1958.
RECORDS AVAILABLE: 1953, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 22, 1953	125.0 A	JAN. 30, 1958	50.50				

30S/38E-32E1 M. DEPTH 107.4 FT. ON JANUARY 31, 1958 AND 44.0 FT. ON DECEMBER 2, 1959.
ALTITUDE ABOUT 1,980 FT.
HIGHEST WATER LEVEL 25.14 FT BELOW LSD, MAY 7, 1953.
LOWEST STATIC WATER LEVEL 40.49 FT BELOW LSD, NOV. 5, 1958.
RECORDS AVAILABLE: 1953-59.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 7, 1953	25.14	NOV. 15, 1955	34.09	MAR. 6, 1957	37.19	NOV. 5, 1958	40.49
MAR. 17, 1954	28.79	MAR. 19, 1956	34.74	NOV. 22	38.67	MAR. 10, 1959	40.14
NOV. 30	30.21	NOV. 27	36.37	JAN. 31, 1958	37.15	DEC. 2	F
MAR. 2, 1955	31.37C						

30S/38E-32G1 M. DEPTH 852 FT. ALTITUDE IS 1,949.0 FT.
RECORDS AVAILABLE: 1929.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1929	0						

30S/38E-32N1 M. DEPTH 615 FT. IN 1917. ALTITUDE ABOUT 2,000 FT.
HIGHEST WATER LEVEL 13.00 FT BELOW LSD. , 1917.
LOWEST STATIC WATER LEVEL 13.00 FT BELOW LSD. , 1917.
RECORDS AVAILABLE: 1917.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	13						

30S/38E-32Z1 M. DEPTH 300 FT. IN 1917. ALTITUDE ABOUT 1,995 FT.
HIGHEST WATER LEVEL 27.00 FT BELOW LSD. , 1917.
LOWEST STATIC WATER LEVEL 27.00 FT BELOW LSD. , 1917.
RECORDS AVAILABLE: 1917, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	27	JAN. 31, 1958	P				

30S/38E-34C1 M. DEPTH 367 FT. ALTITUDE ABOUT 1,940 FT.
HIGHEST WATER LEVEL 7.80 FT BELOW LSD, FEB. 12, 1958.
LOWEST STATIC WATER LEVEL 8.00 FT BELOW LSD, MAY 7, 1953.
RECORDS AVAILABLE: 1953, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 7, 1953	8.0 Q	FEB. 12, 1958	7.80				

30S/38E-34C2 M. DEPTH 52 FT. ALTITUDE ABOUT 1,925 FT.
HIGHEST WATER LEVEL 8.90 FT BELOW LSD, MAY 13, 1953.
LOWEST STATIC WATER LEVEL 12.89 FT BELOW LSD, FEB. 12, 1958.
RECORDS AVAILABLE: 1953, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 13, 1953	8.9 C	FEB. 12, 1958	12.89				

30S/39E-6G1 M. DEPTH 19.8 FT ON FEBRUARY 12, 1958. ALTITUDE ABOUT 1,930 FT.
HIGHEST WATER LEVEL 23.10 FT BELOW LSD, OCT. 11, 1956.
LOWEST STATIC WATER LEVEL 24.28 FT BELOW LSD, MAY 13, 1953.
RECORDS AVAILABLE: 1953, 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 13, 1953	24.28	OCT. 11, 1956	23.1	FEB. 12, 1958	F		

30S/39E-8A1 M. DEPTH 268.3 FT. ON FEBURARY 12, 1958. ALTITUDE ABOUT 2,050 FT.
HIGHEST WATER LEVEL 136.55 FT BELOW LSD, MAR. 2, 1955.
LOWEST STATIC WATER LEVEL 142.82 FT BELOW LSD, APR. 12, 1967.
RECORDS AVAILABLE: 1953-67.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 30, 1953	136.64	MAR. 6, 1957	138.13	NOV. 10, 1960	140.20	MAR. 4, 1964	140.14
MAR. 17, 1954	136.89	NOV. 22	138.40	FEB. 27, 1961	140.12	OCT. 7	140.13
DEC. 3	136.70	FEB. 12, 1958	137.91	NOV. 14	140.13	MAR. 16, 1965	140.14
MAR. 2, 1955	136.55	NOV. 4	137.05	MAR. 14, 1962	140.13	OCT. 18	140.13
NOV. 15	136.74	MAR. 10, 1959	137.72	NOV. 9	140.12	MAR. 9, 1966	140.12
MAR. 20, 1956	136.83	DEC. 2	138.28	MAR. 13, 1963	140.12	OCT. 17	140.12
OCT. 11	138.01	FEB. 26, 1960	140.06	NOV. 6	140.14	APR. 12, 1967	142.82
NOV. 28	138.15						

31S/37E-1H1 M. DEPTH 504 FT. ALTITUDE ABOUT 2,019 FT.
HIGHEST WATER LEVEL 61.28 FT BELOW LSD, MAR. 11, 1953.
LOWEST STATIC WATER LEVEL 81.28 FT BELOW LSD, JAN. 30, 1958.
RECORDS AVAILABLE: 1953, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 11, 1953	61.28	JAN. 30, 1958	81.28				

31S/37E-2Z1 M. DEPTH 300 FT. IN 1917. ALTITUDE ABOUT 2,065 FT.
HIGHEST WATER LEVEL 100.00 FT BELOW LSD, , 1917.
LOWEST STATIC WATER LEVEL 100.00 FT BELOW LSD, , 1917.
RECORDS AVAILABLE: 1917, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	100	JAN. 30, 1958	P				

31S/37E-8C1 M. DEPTH 650 FT. ALTITUDE ABOUT 2,190 FT.
HIGHEST WATER LEVEL 149.30 FT BELOW LSD, MAR. 17, 1954.
LOWEST STATIC WATER LEVEL 187.98 FT BELOW LSD, APR. 12, 1967.
RECORDS AVAILABLE: 1954-67.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 17, 1954	149.30	NOV. 20, 1957	174.14	NOV. 14, 1961	179.55	OCT. 7, 1964	184.15
NOV. 30	170.66	MAR. 4, 1958	174.30	MAR. 14, 1962	180.04	MAR. 16, 1965	184.91
MAR. 2, 1955	170.70	NOV. 4	175.31	NOV. 9	181.13	OCT. 18	185.64
NOV. 15	171.49	MAR. 10, 1959	176.86	MAR. 13, 1963	181.71	MAR. 9, 1966	183.27
MAR. 19, 1956	171.81	FEB. 26, 1960	177.16	NOV. 6	182.82	OCT. 17	187.12
NOV. 28	173.04	NOV. 10	178.15	MAR. 4, 1964	183.37	APR. 12, 1967	187.98
MAR. 6, 1957	174.68	FEB. 27, 1961	178.44				

31S/37E-10Z1 M. DEPTH 174 FT. IN 1917. ALTITUDE ABOUT 2,120 FT.
HIGHEST WATER LEVEL 124.00 FT BELOW LSD, , 1917.
LOWEST STATIC WATER LEVEL 124.00 FT BELOW LSD, , 1917.
RECORDS AVAILABLE: 1917, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	124	JAN. 30, 1958	P				

31S/37E-12N1 M. DEPTH 0 FT. ON JANUARY 30, 1958. ALTITUDE ABOUT 2,135 FT.
HIGHEST WATER LEVEL 79.86 FT BELOW LSD, FEB. 9, 1953.
LOWEST STATIC WATER LEVEL 79.86 FT BELOW LSD, FEB. 9, 1953.
RECORDS AVAILABLE: 1953, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 9, 1953	79.86	JAN. 30, 1958	P				

31S/37E-12Z1 M. ALTITUDE ABOUT 2,070 FT.
HIGHEST WATER LEVEL 96.00 FT BELOW LSD, , 1917.
LOWEST STATIC WATER LEVEL 96.00 FT BELOW LSD, , 1917.
RECORDS AVAILABLE: 1917, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	96	JAN. 30, 1958	P				

31S/37E-13A1 M. DEPTH 400 FT. ALTITUDE ABOUT 2,135 FT.
HIGHEST WATER LEVEL 184.12 FT BELOW LSD, JAN. 30, 1958.
LOWEST STATIC WATER LEVEL 265.22 FT BELOW LSD, APR. 12, 1967.
RECORDS AVAILABLE: 1958-67.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 30, 1958	184.12	NOV. 9, 1962	224.81	OCT. 13, 1964	241.15	MAY 5, 1965	243.50
NOV. 5	187.70	MAR. 13, 1963	224.54	NOV. 11	242.39	JUNE 3	244.78
MAR. 10, 1959	187.55	NOV. 8	232.30	DEC. 14	241.05	JULY 1	246.14
MAR. 2, 1960	196.05	MAR. 4, 1964	229.37	JAN. 14, 1965	241.35	OCT. 18	250.83
NOV. 10	204.67	JULY 12	235.93	FEB. 14	241.49	MAR. 9, 1966	248.86
FEB. 27, 1961	204.55	AUG. 12	237.59	MAR. 16	242.25	OCT. 17	260.30
NOV. 14	215.13	SEP. 11	239.51	APR. 1	242.47	APR. 12, 1967	265.22
MAR. 14, 1962	213.65						

31S/37E-13B1 M. DEPTH 400 FT. ON JANUARY 30, 1958 AND 205.3 FT. ON MAY 15, 1964. ALTITUDE ABOUT 2,140 FT.
HIGHEST WATER LEVEL 130.00 FT BELOW LSD. , 1917.
LOWEST STATIC WATER LEVEL 177.80 FT BELOW LSD. MAR. 4, 1958.
RECORDS AVAILABLE: 1917, 1953-58, 1964.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	130	DEC. 3, 1954	167.74	MAR. 22, 1956	170.30	MAR. 4, 1958	177.80
JAN. 22, 1953	155.84	MAR. 2, 1955	167.13	NOV. 27	173.41	MAY 15, 1964	F
MAR. 15, 1954	163.60	NOV. 15	169.78	MAR. 6, 1957	174.28		

31S/37E-14L1 M. DEPTH 250 FT. ALTITUDE IS 2,178.6 FT.
HIGHEST WATER LEVEL 184.50 FT BELOW LSD, OCT. 1, 1929.
LOWEST STATIC WATER LEVEL 196.60 FT BELOW LSD, JAN. 22, 1953.
RECORDS AVAILABLE: 1929, 1953.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 1, 1929	184.5 G	JAN. 22, 1953	196.60				

31S/37E-22Q1 M. DEPTH 500 FT. AND 269.5 FT. ON MARCH 2, 1960. ALTITUDE IS 2,260.0 FT.
HIGHEST WATER LEVEL 253.00 FT BELOW LSD, SEP. 30, 1929.
LOWEST STATIC WATER LEVEL 298.21 FT BELOW LSD, DEC. 2, 1959.
RECORDS AVAILABLE: 1929, 1953-60.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 30, 1929	253.0 G	MAR. 2, 1955	262.93	MAR. 6, 1957	268.97	MAR. 10, 1959	274.83
JAN. 22, 1953	257.77	NOV. 15	265.09	NOV. 22	269.32	DEC. 2	298.21
MAR. 15, 1954	260.15	MAR. 22, 1956	265.99	NOV. 5, 1958	273.73	MAR. 2, 1960	F
DEC. 3	262.14	NOV. 27	267.91				

31S/37E-26K1 M. DEPTH 374 FT ON FEBRUARY 5, 1918 AND 244.7 FT. ON AUGUST 16, 1956. ALTITUDE IS 2,240.0 FT.
HIGHEST WATER LEVEL 231.00 FT BELOW LSD, SEP. 30, 1929.
LOWEST STATIC WATER LEVEL 244.36 FT BELOW LSD, JAN. 30, 1958.
RECORDS AVAILABLE: 1918, 1929-30, 1956, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 6, 1918	233.0	MAR. 5, 1930	231.40G	AUG. 16, 1956	237.75	JAN. 30, 1958	244.36
SEP. 30, 1929	231.00G						

31S/37E-28H1 M. DEPTH 584.7 FT. ON AUGUST 12, 1964. ALTITUDE ABOUT 2,300 FT.
HIGHEST WATER LEVEL 232.96 FT BELOW LSD, NOV. 11, 1964.
LOWEST STATIC WATER LEVEL 239.40 FT BELOW LSD, JULY 26, 1965.
RECORDS AVAILABLE: 1964-65.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUNE 11, 1964	233.87	OCT. 13, 1964	234.50	JAN. 14, 1965	233.40	MAY 5, 1965	237.01
AUG. 12	235.61	NOV. 11	232.96	FEB. 14	233.37	JUNE 3	239.29
SEP. 11	233.67	DEC. 15	233.08	APR. 1	234.95	JULY 26	239.40

31S/37E-30F1 M. DEPTH 331.4 FT. ON JANUARY 4, 1967. ALTITUDE IS 2,371.7 FT.
HIGHEST WATER LEVEL 300.50 FT BELOW LSD, MAR. 5, 1930.
LOWEST STATIC WATER LEVEL 313.64 FT BELOW LSD, JAN. 4, 1967.
RECORDS AVAILABLE: 1917, 1929-30, 1958, 1967.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1917	304.0	MAR. 5, 1930	300.50G	JAN. 28, 1958	307.20	JAN. 4, 1967	313.64
OCT. 3, 1929	300.80G						

31S/37E-32A1 M. DEPTH 349 FT. IN 1917 AND 276.9 FT. TO OBSTRUCTION ON JANUARY 23, 1953.
ALTITUDE IS 2,348.0 FT.
HIGHEST WATER LEVEL 274.00 FT BELOW LSD, , 1917.
LOWEST STATIC WATER LEVEL 276.40 FT BELOW LSD, MAR. 5, 1930.
RECORDS AVAILABLE: 1917, 1929-30, 1953.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	274	OCT. 1, 1929	276.20G	MAR. 5, 1930	276.40G	JAN. 23, 1953	F

31S/37E-32Z1 M. DEPTH 349 FT. ON OCTOBER 3, 1917. ALTITUDE ABOUT 2,380 FT.
HIGHEST WATER LEVEL 307.00 FT BELOW LSD, OCT. 3, 1917.
LOWEST STATIC WATER LEVEL 307.00 FT BELOW LSD, OCT. 3, 1917.
RECORDS AVAILABLE: 1917, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1917	307.0	JAN. 28, 1958	P				

31S/37E-33H1 M. DEPTH 535 FT. ALTITUDE ABOUT 2,340 FT.
HIGHEST WATER LEVEL 267.52 FT BELOW LSD, DEC. 15, 1964.
LOWEST STATIC WATER LEVEL 274.75 FT BELOW LSD, JULY 26, 1961.
RECORDS AVAILABLE: 1958, 1961, 1964-65, 1967.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 28, 1958	274.48	SEP. 11, 1964	268.17	DEC. 15, 1964	267.52	APR. 1, 1965	268.50
JULY 26, 1961	274.75G	OCT. 13	268.23	JAN. 14, 1965	267.61	JAN. 4, 1967	269.34

31S/37E-33Z1 M. ALTITUDE IS 2,324.0 FT.
HIGHEST WATER LEVEL 255.78 FT BELOW LSD, SEP. 30, 1929.
LOWEST STATIC WATER LEVEL 256.18 FT BELOW LSD, MAR. 5, 1930.
RECORDS AVAILABLE: 1929-30, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 30, 1929	255.78G	MAR. 5, 1930	256.18G	JAN. 15, 1958	P		

31S/37E-34A1 M. DEPTH 401.3 FT. ON JANUARY 22, 1953 AND 205.3 FT. ON JANUARY 29, 1958.
ALTITUDE IS 2,271.0 FT.
HIGHEST WATER LEVEL 200.61 FT BELOW LSD, OCT. 1, 1929.
LOWEST STATIC WATER LEVEL 201.11 FT BELOW LSD, MAR. 5, 1930.
RECORDS AVAILABLE: 1929-30, 1953, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 1, 1929	200.61G	MAR. 5, 1930	201.11G	JAN. 22, 1953	200.95	JAN. 29, 1958	F

31S/37E-35N1 M. DEPTH 439 FT. IN 1952. ALTITUDE ABOUT 2,320 FT.
HIGHEST WATER LEVEL 230.79 FT BELOW LSD, JAN. 22, 1953.
LOWEST STATIC WATER LEVEL 247.92 FT BELOW LSD, DEC. 2, 1959.
RECORDS AVAILABLE: 1953, 1958-67.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 22, 1953	230.79	MAR. 2, 1960	247.38	MAR. 13, 1963	244.82	OCT. 18, 1965	244.00
APR. 14	292.5 A	NOV. 10	245.60	NOV. 7	244.41	MAR. 9, 1966	244.09
JAN. 30, 1958	244.08	FEB. 27, 1961	246.20	MAR. 4, 1964	244.49	OCT. 17	246.37
MAR. 4	243.72	NOV. 14	245.49	OCT. 7	242.68	JAN. 4, 1967	247.00
MAR. 10, 1959	246.04	MAR. 15, 1962	245.18	MAR. 16, 1965	242.54	APR. 12	247.33
DEC. 2	247.92	NOV. 9	243.73				

31S/38E-6R1 M. DEPTH 21.9 FT. ON JANUARY 31, 1958. ALTITUDE ABOUT 2,025 FT.
HIGHEST WATER LEVEL 35.00 FT BELOW LSD. , 1917.
LOWEST STATIC WATER LEVEL 35.00 FT BELOW LSD. , 1917.
RECORDS AVAILABLE: 1917, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	35	JAN. 31, 1958	F				

31S/38E-18P1 M. ALTITUDE ABOUT 2,225 FT.
HIGHEST WATER LEVEL 140.00 FT BELOW LSD. , 1917.
LOWEST STATIC WATER LEVEL 147.42 FT BELOW LSD, FEB. 9, 1953.
RECORDS AVAILABLE: 1917, 1953, 1958, 1964-65.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	140	MAY 13, 1964	147.07	OCT. 13, 1964	147.07	APR. 1, 1965	147.23
FEB. 9, 1953	147.42	SEP. 11	147.18	JAN. 14, 1965	147.24	JULY 26	147.21
JAN. 30, 1958	147.22						

31S/38E-31C1 M. DEPTH 202.3 FT. ON JANUARY 30, 1958. ALTITUDE ABOUT 2,300 FT.
HIGHEST WATER LEVEL 197.66 FT BELOW LSD, JAN. 30, 1958.
LOWEST STATIC WATER LEVEL 199.90 FT BELOW LSD, FEB. 9, 1953.
RECORDS AVAILABLE: 1917, 1953, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	230 R	FEB. 9, 1953	199.90	JAN. 30, 1958	197.66		

31S/39E-24M1 M. DEPTH 962 FT. ON OCTOBER 14, 1957. ALTITUDE ABOUT 2,930 FT.
HIGHEST WATER LEVEL 364.00 FT BELOW LSD, OCT. 14, 1957.
LOWEST STATIC WATER LEVEL 399.00 FT BELOW LSD, MAR. 23, 1960.
RECORDS AVAILABLE: 1957, 1960-61.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 14, 1957	364.0 G	MAR. 23, 1960	399 G	JULY 21, 1961	379.33G	AUG. 1, 1961	379.25G
NOV. 19	369.30						

31S/39E-24P1 M. DEPTH 793 FT. ON JUNE 4, 1957 AND 441 FT. TO OBSTRUCTION ON AUGUST 31, 1961.
ALTITUDE ABOUT 2,925 FT.
HIGHEST WATER LEVEL 385.00 FT BELOW LSD, NOV. 19, 1957.
LOWEST STATIC WATER LEVEL 420.50 FT BELOW LSD, JULY 27, 1961.
RECORDS AVAILABLE: 1957, 1961.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUNE 4, 1957	418.0 G	JULY 26, 1961	420.0 G	JULY 27, 1961	420.5 G	AUG. 31, 1961	414.7 G
NOV. 19	385	JULY 27	410.0 G	JULY 29	410.5 G		

31S/40E-32F1 M. DEPTH 256.3 FT. ON OCTOBER 15, 1952 AND 250.5 FT. ON NOVEMBER 19, 1957.
ALTITUDE ABOUT 2,800 FT.
HIGHEST WATER LEVEL 253.20 FT BELOW LSD, FEB. 17, 1953.
LOWEST STATIC WATER LEVEL 253.80 FT BELOW LSD, OCT. 15, 1952.
RECORDS AVAILABLE: 1952-53, 1957.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 15, 1952	253.80	FEB. 17, 1953	253.2	NOV. 19, 1957	F		

31S/40E-35N1 M. DEPTH 217.0 FT. ON APRIL 22, 1953. ALTITUDE ABOUT 2,744 FT.
HIGHEST WATER LEVEL 195.38 FT BELOW LSD, NOV. 19, 1957.
LOWEST STATIC WATER LEVEL 195.45 FT BELOW LSD, APR. 22, 1953.
RECORDS AVAILABLE: 1953, 1957.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 22, 1953	195.45	NOV. 19, 1957	195.38				

32S/36E-22C1 M. DEPTH OVER 625 FT. ON JANUARY 27, 1958. ALTITUDE ABOUT 2,720 FT.
HIGHEST WATER LEVEL 612.40 FT BELOW LSD, JAN. 27, 1958.
LOWEST STATIC WATER LEVEL 619.81 FT BELOW LSD, JAN. 3, 1967.
RECORDS AVAILABLE: 1958, 1967.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 27, 1958	612.40	JAN. 3, 1967	619.81				

32S/36E-23D1 M. DEPTH 1,000 FT. IN APRIL 1952. ALTITUDE ABOUT 2,670 FT.
HIGHEST WATER LEVEL 350.00 FT BELOW LSD, JAN. 27, 1958.
LOWEST STATIC WATER LEVEL 579.57 FT BELOW LSD, JAN. 3, 1967.
RECORDS AVAILABLE: 1952, 1958, 1967.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 3, 1952	569.6	JAN. 27, 1958	350	JAN. 3, 1967	579.57		

32S/37E-1N1 M. DEPTH 680 FT. AND 232 FT. ON FEBRUARY 27, 1961; AND 225 FT. ON JANUARY 4, 1967.
ALTITUDE ABOUT 2,330 FT.
HIGHEST WATER LEVEL 223.59 FT BELOW LSD, FEB. 9, 1953.
LOWEST STATIC WATER LEVEL 231.20 FT BELOW LSD, NOV. 5, 1958.
RECORDS AVAILABLE: 1953-61, 1967.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 9, 1953	223.59	MAR. 22, 1956	225.28	FEB. 3, 1958	229.71	MAR. 2, 1960	230.83
MAR. 15, 1954	226.48	NOV. 27	227.72	NOV. 5	231.20	NOV. 10	230.30
DEC. 3	226.03	MAR. 6, 1957	229.98	MAR. 10, 1959	230.49	FEB. 27, 1961	F
MAR. 2, 1955	225.16	NOV. 22	230.11	DEC. 2	231.14	JAN. 4, 1967	F
NOV. 15	225.43						

32S/37E-2E1 M. DEPTH 446 FT. IN 1917 AND 6.0 FT. ON JANUARY 22, 1953. ALTITUDE IS 2,316.5 FT.
HIGHEST WATER LEVEL 242.63 FT BELOW LSD, FEB. 25, 1930.
LOWEST STATIC WATER LEVEL 244.00 FT BELOW LSD, , 1917.
RECORDS AVAILABLE: 1917, 1929-30, 1953.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	244	SEP. 30, 1929	251.4 B	FEB. 25, 1930	242.63G	JAN. 22, 1953	P

32S/37E-2F1 M. DEPTH 205.9 FT. ON JANUARY 30, 1958. ALTITUDE ABOUT 2,320 FT.
HIGHEST WATER LEVEL 232.41 FT BELOW LSD, FEB. 9, 1953.
LOWEST STATIC WATER LEVEL 232.41 FT BELOW LSD, FEB. 9, 1953.
RECORDS AVAILABLE: 1953, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 9, 1953	232.41	JAN. 30, 1958	F				

32S/37E-2N1 M. DEPTH 89.8 FT. ON JANUARY 22, 1953. ALTITUDE IS 2,329.5 FT.
HIGHEST WATER LEVEL 251.82 FT BELOW LSD, SEP. 30, 1929.
LOWEST STATIC WATER LEVEL 252.32 FT BELOW LSD, FEB. 25, 1930.
RECORDS AVAILABLE: 1929-30, 1953.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 30, 1929	251.82G	FEB. 25, 1930	252.32G	JAN. 22, 1953	F		

32S/37E-4D1 M. DEPTH 650 FT. IN 1952 AND 317.7 FT. ON JANUARY 4, 1967. ALTITUDE ABOUT 2,390 FT.
HIGHEST WATER LEVEL 301.06 FT BELOW LSD, JAN. 23, 1953.
LOWEST STATIC WATER LEVEL 335.19 FT BELOW LSD, JAN. 28, 1958.
RECORDS AVAILABLE: 1953, 1958, 1961, 1967.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 23, 1953	301.06	JAN. 28, 1958	335.19	JULY 26, 1961	312.16G	JAN. 4, 1967	F
APR. 17	365.0 A						

32S/37E-4P1 M. DEPTH 800 FT. IN 1952 AND 550 FT. IN 1954. ALTITUDE ABOUT 2,405 FT.
HIGHEST WATER LEVEL 318.58 FT BELOW LSD, JULY 26, 1961.
LOWEST STATIC WATER LEVEL 339.90 FT BELOW LSD, JAN. 28, 1958.
RECORDS AVAILABLE: 1958, 1961.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 28, 1958	339.90	JULY 26, 1961	318.58G				

32S/37E-4Q1 M. DEPTH 426.7 FT. ON JANUARY 23, 1953; 320 FT. ON NOVEMBER 27, 1956; AND 204.9 FT. ON MARCH 6, 1957. ALTITUDE IS 2388.7 FT.
HIGHEST WATER LEVEL 302.98 FT BELOW LSD, JAN. 23, 1953.
LOWEST STATIC WATER LEVEL 317.87 FT BELOW LSD, MAR. 22, 1956.
RECORDS AVAILABLE: 1929-30, 1953-57.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 30, 1929	303.20G	JAN. 23, 1953	302.98	MAR. 2, 1955	310.64	NOV. 27, 1956	F
FEB. 25, 1930	304.30G	MAR. 15, 1954	315.55C	MAR. 22, 1956	317.87	MAR. 6, 1957	F

32S/37E-8E1 M. DEPTH 410 FT. IN 1917 AND 364.0 FT. ON SEPTEMBER 18, 1952. ALTITUDE 2,470 FT.
HIGHEST WATER LEVEL 370.00 FT BELOW LSD, , 1917.
LOWEST STATIC WATER LEVEL 370.00 FT BELOW LSD, , 1917.
RECORDS AVAILABLE: 1917, 1952.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	370	SEP. 18, 1952	F				

32S/37E-9Q1 M. DEPTH 711 FT. IN 1952. ALTITUDE ABOUT 2,410 FT.
HIGHEST WATER LEVEL 311.25 FT BELOW LSD, JULY 26, 1961.
LOWEST STATIC WATER LEVEL 364.67 FT BELOW LSD, JAN. 28, 1958.
RECORDS AVAILABLE: 1958, 1961, 1967.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 28, 1958	364.67	JULY 26, 1961	311.25G	JAN. 3, 1967	327.81		

32S/37E-11N1 M. DEPTH 600 FT. IN 1952. ALTITUDE ABOUT 2,375 FT.
HIGHEST WATER LEVEL 268.09 FT BELOW LSD, JAN. 22, 1953.
LOWEST STATIC WATER LEVEL 281.91 FT BELOW LSD, MAR. 10, 1959.
RECORDS AVAILABLE: 1953, 1958-67.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 22, 1953	268.09	DEC. 2, 1959	281.63	MAR. 15, 1962	280.02	MAR. 16, 1965	279.47
MAY 1	389.0 A	MAR. 2, 1960	281.29	NOV. 9	279.88	OCT. 18	279.61
JAN. 30, 1958	280.18	NOV. 10	280.74	MAR. 13, 1963	280.96	MAR. 9, 1966	279.32
MAR. 4	279.08	FEB. 27, 1961	280.51	NOV. 8	279.97	OCT. 17	279.66
NOV. 5	280.77	JULY 26	275.58G	MAR. 4, 1964	279.67	JAN. 4, 1967	279.48
MAR. 10, 1959	281.91	NOV. 14	280.32	OCT. 7	279.79	APR. 12	279.48

32S/37E-12M1 M. DEPTH 430.8 FT. ON JANUARY 4, 1967. ALTITUDE ABOUT 2,350 FT.
HIGHEST WATER LEVEL 243.22 FT BELOW LSD, JAN. 4, 1967.
LOWEST STATIC WATER LEVEL 243.22 FT BELOW LSD, JAN. 4, 1967.
RECORDS AVAILABLE: 1967.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 4, 1967	243.22						

32S/37E-14N1 M. DEPTH 685 FT. IN 1952. ALTITUDE ABOUT 2,400 FT.
HIGHEST WATER LEVEL 292.50 FT BELOW LSD, JULY 26, 1961.
LOWEST STATIC WATER LEVEL 323.39 FT BELOW LSD, JAN. 30, 1958.
RECORDS AVAILABLE: 1958, 1961, 1965.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 30, 1958	323.39	APR. 10, 1965	293.40G	MAY 13, 1965	298.30C	JUNE 24, 1965	298.53C
JULY 26, 1961	292.50G	APR. 17	293.50G	MAY 20	298.50C	JUNE 28	298.63C
JAN. 8, 1965	295.65G	APR. 24	293.60G	JUNE 2	298.39C	JUNE 30	298.70C
JAN. 16	296.33G	APR. 26	294.35C	JUNE 7	298.44C	JULY 3	298.75C
JAN. 22	295.50G	APR. 27	295.21C	JUNE 8	297.62G	JULY 10	298.78C
FEB. 8	294.85G	APR. 28	295.86C	JUNE 12	296.10G	JULY 11	298.94C
FEB. 13	295.30G	APR. 30	296.50C	JUNE 14	295.89G	JULY 13	297.70G
FEB. 20	295.38G	MAY 1	296.78C	JUNE 15	296.47C	JULY 14	297.10G
MAR. 3	294.10G	MAY 2	296.88C	JUNE 16	296.78C	JULY 17	296.36G
MAR. 6	294.06G	MAY 3	296.98C	JUNE 17	297.22C	JULY 21	296.00G
MAR. 13	293.90G	MAY 4	297.34C	JUNE 18	297.46C	JULY 28	295.98G
MAR. 20	293.88G	MAY 8	297.97C	JUNE 19	297.76C	AUG. 6	296.05G
APR. 3	293.56G						

32S/37E-16R1 M. DEPTH 686 FT. IN 1952. ALTITUDE ABOUT 2,440 FT.
HIGHEST WATER LEVEL 339.00 FT BELOW LSD, JUNE 3, 1963.
LOWEST STATIC WATER LEVEL 385.59 FT BELOW LSD, JAN. 28, 1958.
RECORDS AVAILABLE: 1958, 1961, 1963.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 28, 1958	385.59	JULY 26, 1961	347.12G	JUNE 3, 1963	339.00G		

32S/37E-19R1 M. DEPTH 98 FT. IN 1917 AND 60.1 FT. ON JANUARY 27, 1958. ALTITUDE ABOUT 2,560 FT.
RECORDS AVAILABLE: 1917, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	F	JAN. 27, 1958	F				

32S/37E-22N1 M. ALTITUDE ABOUT 2,460 FT.
HIGHEST WATER LEVEL 353.00 FT BELOW LSD, JAN. 21, 1953.
LOWEST STATIC WATER LEVEL 394.25 FT BELOW LSD, JAN. 28, 1958.
RECORDS AVAILABLE: 1953, 1958-59, 1961-62, 1964-66.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 21, 1953	353	JULY 1962	353.5 G	JAN. 14, 1965	359.79	OCT. 18, 1965	358.17
JAN. 28, 1958	394.25	SEP. 11, 1964	363.88	MAR. 16	356.34	MAR. 9, 1966	355.43
JUNE 22, 1959	380.5 G	OCT. 13	359.74	APR. 1	356.11	OCT. 17	358.43
JULY 26, 1961	357.5 G						

32S/37E-22Z1 M. DEPTH 513 FT. ON FEBRUARY 6, 1918. ALTITUDE IS 2,418.0 FT.
HIGHEST WATER LEVEL 304.20 FT BELOW LSD, SEP. 30, 1929.
LOWEST STATIC WATER LEVEL 312.00 FT BELOW LSD, FEB. 6, 1918.
RECORDS AVAILABLE: 1918, 1929-30, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 6, 1918	312.0	SEP. 30, 1929	304.2 G	FEB. 26, 1930	304.8 G	JAN. 29, 1958	P

32S/37E-23N1 M. ALTITUDE ABOUT 2,415 FT.
HIGHEST WATER LEVEL 295.00 FT BELOW LSD, JAN. 3, 1967.
LOWEST STATIC WATER LEVEL 353.23 FT BELOW LSD, JAN. 30, 1958.
RECORDS AVAILABLE: 1953, 1958, 1961-62, 1967.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 15, 1953	401.0 A	JULY 26, 1961	312.25G	SEP. 1962	314.0 G	JAN. 3, 1967	295.00
JAN. 30, 1958	353.23						

32S/37E-24N1 M. DEPTH OVER 480 FT. ON MARCH 2, 1955 AND 266.3 FT. ON MARCH 6, 1957. ALTITUDE ABOUT 2,385 FT.
HIGHEST WATER LEVEL 251.83 FT BELOW LSD, JAN. 23, 1953.
LOWEST STATIC WATER LEVEL 275.68 FT BELOW LSD, NOV. 27, 1956.
RECORDS AVAILABLE: 1953-57.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 23, 1953	251.83	DEC. 3, 1954	266.61	OCT. 5, 1955	271.58	NOV. 27, 1956	275.68
MAR. 15, 1954	262.01	MAR. 2, 1955	264.24	MAR. 22, 1956	271.90	MAR. 6, 1957	F

32S/37E-24N2 M. DEPTH 337 FT. IN 1917. ALTITUDE IS 2,383.0 FT.
HIGHEST WATER LEVEL 238.00 FT BELOW LSD, SEP. 4, 1929.
LOWEST STATIC WATER LEVEL 248.00 FT BELOW LSD, MAY 17, 1952.
RECORDS AVAILABLE: 1917, 1929, 1952.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	242	SEP. 4, 1929	238.0 G	MAY 17, 1952	248		

32S/37E-26G1 M. DEPTH 553 FT. ON JANUARY 21, 1953 AND 298 FT. TO OBSTRUCTION ON OCTOBER 7, 1955 AND JANUARY 29, 1958. ALTITUDE ABOUT 2,405 FT.
HIGHEST WATER LEVEL 300.62 FT BELOW LSD, JAN. 21, 1953.
LOWEST STATIC WATER LEVEL 376.00 FT BELOW LSD, JUNE 22, 1959.
RECORDS AVAILABLE: 1953, 1955, 1958-59, 1961.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 21, 1953	300.62	JAN. 29, 1958	M	JUNE 22, 1959	376.0 G	JULY 27, 1961	338.5 A
OCT. 7, 1955	M						

32S/37E-26G2 M. ALTITUDE IS 2,388.0 FT.
HIGHEST WATER LEVEL 268.00 FT BELOW LSD, , 1917.
LOWEST STATIC WATER LEVEL 268.80 FT BELOW LSD, NOV. 23, 1929, MAR. 5, 1930.
RECORDS AVAILABLE: 1917, 1929-30, 1953.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	268	NOV. 23, 1929	268.80G	MAR. 5, 1930	268.80G	JAN. 21, 1953	P

32S/37E-26M1 M. DEPTH 598 FT. IN 1953 AND 543 FT. ON SEPTEMBER 13, 1962. ALTITUDE ABOUT 2,420 FT.
HIGHEST WATER LEVEL 324.00 FT BELOW LSD, SEP. 13, 1962.
LOWEST STATIC WATER LEVEL 351.98 FT BELOW LSD, JAN. 29, 1958.
RECORDS AVAILABLE: 1955, 1958-59, 1961-62.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 7, 1955	346.66	JUNE 22, 1959	349.0 G	JULY 18, 1961	327.10	SEP. 13, 1962	324.00
JAN. 29, 1958	351.98	JUNE 22	449.0 A				

32S/37E-26N1 M. ALTITUDE ABOUT 2,420 FT.
HIGHEST WATER LEVEL 323.08 FT BELOW LSD, JULY 26, 1961.
LOWEST STATIC WATER LEVEL 361.68 FT BELOW LSD, JAN. 29, 1958.
RECORDS AVAILABLE: 1953-55, 1958, 1961-62, 1967.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 22, 1953	364.8 A	OCT. 7, 1955	341.18	JULY 26, 1961	323.08G	SEP. 1962	326.00G
APR. 30, 1954	421.0 A	JAN. 29, 1958	361.68	AUG. 25	324.00G	JAN. 13, 1967	325.64

32S/37E-26R1 M. ALTITUDE ABOUT 2,395 FT.
HIGHEST WATER LEVEL 301.00 FT BELOW LSD, JULY 28, 1961.
RECORDS AVAILABLE: 1953, 1961.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 21, 1953	338 A	JULY 28, 1961	301.0 A				

32S/37E-26Z1 M. DEPTH 335 FT. IN 1917. ALTITUDE 2,410 FT.
HIGHEST WATER LEVEL 258.00 FT BELOW LSD, , 1917.
LOWEST STATIC WATER LEVEL 258.00 FT BELOW LSD, , 1917.
RECORDS AVAILABLE: 1917, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
1917	258	JAN. 29, 1958	P				

32S/37E-32N1 M. DEPTH 1,800 FT. ALTITUDE ABOUT 2,550 FT.
HIGHEST WATER LEVEL 418.90 FT BELOW LSD, FEB. 9, 1953.
LOWEST STATIC WATER LEVEL 430.00 FT BELOW LSD, OCT. 15, 1957.
RECORDS AVAILABLE: 1953, 1957.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 9, 1953	418.9	OCT. 15, 1957	430				

32S/37E-34D1 M. DEPTH 334.6 FT. ON JANUARY 27, 1958. ALTITUDE IS 2,449.5 FT.
HIGHEST WATER LEVEL 341.18 FT BELOW LSD, OCT. 3, 1929, MAR. 11, 1930.
LOWEST STATIC WATER LEVEL 341.18 FT BELOW LSD, OCT. 3, 1929, MAR. 11, 1930.
RECORDS AVAILABLE: 1929-30, 1958.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT. 3, 1929	341.18	G	MAR. 11, 1930	341.18	G	JAN. 27, 1958		F			

32S/37E-35G1 M. DEPTH 662 FT. IN 1952. ALTITUDE ABOUT 2,405 FT.
HIGHEST WATER LEVEL 305.00 FT BELOW LSD, JUNE , 1956.
LOWEST STATIC WATER LEVEL 358.60 FT BELOW LSD, JAN. 29, 1958.
RECORDS AVAILABLE: 1956, 1958, 1960, 1962.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
JUNE 1956	305	G	JAN. 29, 1958	358.60		SEP. 1962	327	G	SEP. 1962	351	A
JUNE	340	A									

32S/37E-36R1 M. DEPTH 287 FT. IN 1917 AND 140.6 FT. ON JULY 24, 1956. ALTITUDE ABOUT 2,385 FT.
HIGHEST WATER LEVEL 245.00 FT BELOW LSD, , 1917.
LOWEST STATIC WATER LEVEL 245.00 FT BELOW LSD, , 1917.
RECORDS AVAILABLE: 1917, 1956.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
1917	245		JULY 24, 1956		F						

32S/38E-10P1 M. DEPTH 200.0 FT. ON APRIL 15, 1953 AND 168.9 FT. ON JANUARY 29, 1958. ALTITUDE ABOUT 2,475 FT.
HIGHEST WATER LEVEL 177.04 FT BELOW LSD, APR. 15, 1953.
LOWEST STATIC WATER LEVEL 177.04 FT BELOW LSD, APR. 15, 1953.
RECORDS AVAILABLE: 1953, 1958.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
APR. 15, 1953	177.04		JAN. 29, 1958		F						

32S/38E-20D1 M. DEPTH 90 FT. IN 1917 AND 97.7 FT. ON JANUARY 29, 1958. ALTITUDE 2,330 FT.
RECORDS AVAILABLE: 1917, 1958.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
1917		F	JAN. 29, 1958		F						

32S/38E-30G1 M. DEPTH 240.0 FT. ON APRIL 11, 1951 AND 220.1 FT. ON DECEMBER 3, 1954. ALTITUDE ABOUT 2,360 FT.
HIGHEST WATER LEVEL 221.75 FT BELOW LSD, NOV. 15, 1951.
LOWEST STATIC WATER LEVEL 236.32 FT BELOW LSD, MAR. 15, 1954.
RECORDS AVAILABLE: 1951, 1953-54, 1958.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
APR. 11, 1951	222.14		FEB. 9, 1953	227.30		DEC. 3, 1954		F	JAN. 29, 1958		F
NOV. 15	221.75		MAR. 15, 1954	236.32							

32S/38E-32N1 M. DEPTH 20 FT. ON DECEMBER 2, 1959. ALTITUDE ABOUT 2,370 FT.
HIGHEST WATER LEVEL 223.20 FT BELOW LSD, NOV. 15, 1951.
LOWEST STATIC WATER LEVEL 248.13 FT BELOW LSD, MAR. 10, 1959.
RECORDS AVAILABLE: 1951-59.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 11, 1951	223.35	APR. 16, 1953	225.30	MAR. 22, 1956	239.14	MAR. 4, 1958	247.35
NOV. 15	223.20	MAR. 15, 1954	231.79	NOV. 27	242.36	NOV. 5	248.06
MAR. 8, 1952	223.82	DEC. 3	235.90	MAR. 6, 1957	243.80	MAR. 10, 1959	248.13
JAN. 22, 1953	224.08	MAR. 2, 1955	236.03	NOV. 19	246.62	DEC. 2	P
FEB. 9	224.16	OCT. 7	237.56				

32S/39E-4L1 M. DEPTH 237.0 FT. ON APRIL 21, 1953. ALTITUDE ABOUT 2,725 FT.
HIGHEST WATER LEVEL 207.28 FT BELOW LSD, JAN. 29, 1958.
LOWEST STATIC WATER LEVEL 207.30 FT BELOW LSD, APR. 21, 1953.
RECORDS AVAILABLE: 1953, 1958.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 21, 1953	207.3	JAN. 29, 1958	207.28				

32S/39E-30R1 M. DEPTH 253.0 FT. ON JANUARY 29, 1958. ALTITUDE ABOUT 2,485 FT.
HIGHEST WATER LEVEL 227.18 FT BELOW LSD, JAN. 29, 1958.
LOWEST STATIC WATER LEVEL 228.05 FT BELOW LSD, MAR. 10, 1960.
RECORDS AVAILABLE: 1952-53, 1958, 1960.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 30, 1952	232.238	APR. 15, 1953	238.8 A	JAN. 29, 1958	227.18	MAR. 10, 1960	228.05

32S/39E-33L1 M. DEPTH 1,400 FT. ALTITUDE ABOUT 2,485 FT.
HIGHEST WATER LEVEL 251.70 FT BELOW LSD, MAY 29, 1956.
LOWEST STATIC WATER LEVEL 297.37 FT BELOW LSD, NOV. 22, 1957.
RECORDS AVAILABLE: 1956-57.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 29, 1956	251.7 G	DEC. 12, 1956	267.5 G	NOV. 22, 1957	297.37		

32S/39E-33N1 M. DEPTH 1,410 FT. ALTITUDE ABOUT 2,465 FT.
HIGHEST WATER LEVEL 243.00 FT BELOW LSD, DEC. 12, 1956.
LOWEST STATIC WATER LEVEL 269.49 FT BELOW LSD, NOV. 22, 1957.
RECORDS AVAILABLE: 1956-57.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 12, 1956	243.0 G	NOV. 22, 1957	269.49				

TABLE 3.--*Drillers' logs*

The depth given in this table is the depth reported by the driller and is not necessarily the developed depth of the well. The depth given in tables 1 and 2 is a measured or reported depth on the date indicated.

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

10N/7W-6B2. Boron Community Services District, well 6. Altitude about 2,460 feet. Drilled by Barber-Bridge Drilling Corp. 12-inch casing, 0-454 feet, perforated 353-363 feet.

Clay, sandy, and yellow----------	352	352	Clay, sandy, and yellow----------	97	454
Sand and gravel-----	5	357			

10N/8W-1Z1. Boron Community Services District, well 14. Altitude about 2,440 feet. Drilled by Fred Kennedy. Perforated 255-435 feet.

Sand----------	10	10	Sand and clay-------	67	307
Sand, coarse--------	10	20	Sand, hard----------	3	310
Sand, coarse, and gravel, with streaks of clay---	150	170	Sand---------- Sand with streaks of clay----------	4 11	314 325
Clay----------	20	190	Sand----------	15	340
Clay, sandy---------	30	220	Sand with streaks of clay----------	95	435
Sand with streaks of clay----------	10	230	Rocks----------	3	438
Clay with coarse sand----------	10	240			

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

10N/8W-5B1. U.S. Government. Altitude about 2,330 feet. Test hole for borate. Cored 0-1,714.5 feet.

Holocene alluvium	1,175	1,175	Ricardo Formation	539.5	1,714.5

10N/8W-5B2. U.S. Government. Altitude about 2,330 feet. Test hole for borate. Cored 1,650-2,323 feet.

Sand	100	100
Clay and silt, both tan, poorly bedded	436	536
Sand, fine to coarse, arkosic; light-brown silt and clay; some thin layers of pebble gravel	666	1,202
Gravel, of granitic and volcanic pebbles and cobbles; tan medium to coarse sand; some tan silt	477	1,679
Sand, fine to medium, greenish-gray, arkosic, friable to moderately hard; minor amounts of gray silt and clay; dips 15° to 20°	234	1,913
Sand, like that of last unit, but with some granitic cobbles; some thin layers of gray; clay dips 15° to 30°	415	2,328

11N/7W-32E1. Boron Community Services District, well 8. Altitude about 2,455 feet. Drilled by Rottman Drilling Co. 10-inch casing 0-502 feet, perforated 262-502 feet.

Clay and sand	50	50	Gravel with streaks of clay	22	300
Clay and gravel	22	72	Gravel	23	323
Clay and sand	22	94	Boulders, clay, and sand	22	345
Sand, coarse	22	116	Gravel and boulders	26	371
Sand, coarse, and clay	24	140	Gravel, hard pack	21	392
Sand and clay	44	184	Clay, hard pack, and gravel	23	415
Sand with streaks of clay	26	210	Clay, hard, and gravel	66	481
Clay, hard	22	232	Gravel and hard clay	21	502
Clay and gravel	24	256			
Clay with streaks of sand	22	278			

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

11N/7W-32G2. Franklin. Altitude about 2,460 feet. Drilled by owner. 5-inch casing.

"Overburden"--------	8	8	Silt, sandy-brown, and calcareous; and "caliche"-----	80	210
"Caliche," hard-----	102	110			
Clay, sticky, and brown----------	20	130			

11N/7W-32H1. Boron Development Co. Altitude about 2,465 feet. Drilled by Rottman Drilling Co. 8-inch casing 0-429 feet, perforated 253-429 feet.

Sand and clay-------	25	25	Clay, sandy---------	23	205
Sand----------	25	50	Sand, coarse, and clay----------	45	250
Sand, coarse--------	30	80	Clay and coarse sand----------	70	320
Clay and coarse sand----------	12	92	Sand, coarse--------	20	340
Sand with streaks of clay----------	30	122	Sand, coarse, with streaks of clay---	37	377
Sand, coarse, and clay----------	24	146	Boulders and coarse sand----------	18	395
Sand, coarse, and rocks----------	13	159	Sand, coarse, with streaks of clay---	10	405
Sand with streaks of clay----------	23	182	Gravel, coarse------	24	429

	Thickness (feet)	Depth (feet)

11N/7W-32K1. Boron Community Services District, well 10. Altitude about 2,460 feet. Drilled by Rottman Drilling Co. 10-inch casing 0-600 feet, uncased hole 600 to 684 feet, perforated 400-600 feet.

Sand, coarse, and clay	25	25
Sand, coarse, and boulders	25	50
Boulders and sand	25	75
Sand, coarse	12	87
Sand, cemented	10	97
Sand, hard, and cemented	23	120
Sand, coarse, and boulders	10	130
Boulders and fine sand	20	150
Sand, coarse, with streaks of clay	23	173
Sand and clay	13	186
Sand, coarse, and clay	10	196
Clay and coarse sand	49	245
Gravel and clay	8	253
Gravel with streaks of clay	10	263
Gravel, small, with streaks of clay	12	275
Gravel, pea size, and clay	10	285
Gravel, coarse, and clay	12	297
Sand, coarse, and gravel	22	319
Gravel, coarse, and boulders	23	342
Sand, coarse	10	352
Sand, coarse, with streaks of clay	34	386
Sand, coarse, and clay	44	430
Boulders, sand, and clay	67	497
Sand, coarse, with some clay	23	520
Sand, coarse, and clay	42	562
Gravel and clay	16	578
Boulders and clay	22	600
Gravel and clay	23	623
Sand, coarse, and small boulders	53	676
Clay and coarse sand	7	683
Boulders, coarse sand	1	684

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

11N/7W-32M2. Boron Community Services District, well 9. Altitude about 2,450 feet. Drilled by Rottman Drilling Co. 10-inch casing 0-522 feet, perforated 287-522 feet.

Sand and boulders----	25	25	Boulders and coarse sand----------	24	362
Sand, clay, and boulders----------	15	40	Boulders, small, and sand----------	10	372
Sand, coarse, and clay----------	20	60	Sand, coarse, with some clay---------	28	400
Sand, coarse, and boulders----------	20	80	Boulders and sand---	8	408
Sand, coarse, with some clay----------	25	105	Sand, coarse, and boulders----------	22	430
Sand, coarse, with streaks of clay----	22	127	Clay, sand, and boulders----------	22	452
Sand, coarse, with some clay----------	23	150	Clay, packed, and sand----------	22	474
Clay and coarse sand----------	44	194	Sand, hard, clay, boulders----------	22	496
Sand, fine, and clay-	22	216	Boulders and "granite"---------	10	506
Clay and fine sand---	22	238	"Granite"----------	24	530
Sand, fine, and clay-	22	260			
Sand, coarse, and clay----------	78	338			

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

11N/8W-2N1. U.S. Borax and Chemical Corp., well 2. Altitude about 2,480 feet. Drilled by owner. 14-inch casing.

"Decomposed granite"	95	95	Gravel	9	264
Clay, gray, and sandy	75	170	"Shell," hard	4	268
Clay, red, and sandy	15	185	"Decomposed granite"	26	294
"Water"	2	187	"Shell," hard	2	296
Clay, red, and sandy	18	205	"Decomposed granite"	12	308
"Water"	2	207	"Shell," hard	3	311
Clay, red, and sandy	8	215	"Decomposed granite"	4	315
"Water"	2	217	"Very soft"	3	318
Clay, red, and sandy	38	255	"Decomposed granite"	9	327
			Basalt, very hard	9	336

11N/8W-2P1. U.S. Borax and Chemical Corp., well 3. Altitude about 2,490 feet. Drilled by owner.

Sand, gravel, and clay	336	336	Basalt	10	346

11N/8W-2Z1. U.S. Borax and Chemical Corp., well 1. Altitude about 2,490 feet. Drilled by owner.

"Surface material"	155	155	Gravel	145	300

11N/8W-2Z2. U.S. Borax and Chemical Corp., well 4. Altitude about 2,480 feet. Drilled by owner.

Sand, gravel, and clay	270	270

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

11N/8W-2Z3. U.S. Borax and Chemical Corp., well 5. Altitude about 2,490 feet. Drilled by owner.

Sand and gravel-----	332	332	Basalt----------	20	352

11N/8W-2Z4. U.S. Borax and Chemical Corp., well 6. Altitude about 2,480 feet. Drilled by owner.

Sand and gravel-----	326	326	Basalt----------	18	344

11N/8W-3C1. U.S. Borax and Chemical Corp., well 25. Altitude about 2,490 feet. Drilled by owner. 16-inch casing was removed after well was test pumped.

Sand, clay, and gravel: medium to fine-grained sand; light-brown clay: pebble to boulder size gravel-------	40	40
Gravel and clay; coarse gravel; light-brown clay--------	12	52
Sand, clay and gravel; medium-grain sand: light-brown clay and coarse gravel----------	133	185
Clay and sand; light-yellowish-brown clay; very fine to coarse subangular sand----------	60	245
Clay, bright-reddish-brown, plastic possibly some bentonite----------	5	250
Clay, gray-green----------	3	253
Clay, reddish-brown containing red decomposed inclusions which appear to have volcanic origin-------	12	265
Clay, mixed red, green, and yellow----------	16	281
Clay, brick-red----------	4	285
Clay, reddish nodules of clay and yellow decomposed clay inclusions. Some streaks of greenish sandstone----------	10	295
Clay, mixed red, yellow, brown, and gray----------	14	309
Clay, yellow, hard----------	11	320
Clay, red and blue with streaks of gravel----------	8	328

	Thickness (feet)	Depth (feet)
11N/8W-3C1.--Continued		
Clay, reddish-brown	17	345
Clay, gray, with occasional streaks of reddish-brown sandy clay, some altered volcanic ash	40	385
Clay, dark-reddish-brown	15	400
Clay, gray-brown with streaks of gray, possibly altered volcanic ash	40	440
Sandstone; gray, fine-grain clay	9	449

11N/8W-3E1. U.S. Borax and Chemical Corp., well 13. Altitude about 2,465 feet. Drilled by owner. Casing removed after well completed.

Sand, gravel, and silt	55	55
Gravel, cemented	30	85
Clay, sandy	13	98
Basalt	72	170

11N/8W-3P1. U.S. Borax and Chemical Corp., well 21. Altitude about 2,466 feet. Drilled by owner. 14-inch casing 0-304 feet, 10-inch casing 304-430 feet.

Sand, clay, and gravel: poorly sorted, moderately cemented	91	91
Clay, brown, sandy	4	95
Sand, clay, and gravel; sand, medium-grain subrounded, quartz, feldspars, some basalt pebbles	22	117
Sand, clay, and gravel: sand medium-grained, subrounded, basalt, quartz and feldspar pebbles ranging to 25 mm., clay reddish-brown, moderate cementing	52	169
Gravel, sand, and clay; gravel fine, well sorted, clay reddish-brown as thin stringers	13	182
Clay, brown and sandy	3	185
Gravel, sand, and clay; clay reddish-brown possibly contains some bentonite	12	197
Basalt, brecciated, black, contains some opalized material	35	232
Volcanic ash or tuff, reddish-brown, bentonitic	3	235

	Thickness (feet)	Depth (feet)
11N/8W-3P1.--Continued		
Basalt, brecciated, reddish-brown, cellular with secondary quartz filling	6	241
Basalt, black, dense	41	282
Basalt, broken, brownish-red	13	295
Basalt, dense, black	75	370
Basalt, broken, cellular	30	400
Basalt, dense, black	10	410
Basalt, broken, soft, contains some fine-grained basaltic sand, possibly a filled fissure or cavity	4	414
Basalt, broken, hard, black	2	416
Basalt, soft, black	3	419
Basalt, dense, black, hard with few soft zones; driller reports broken and softer basalt was increasing with depth	11	430

11N/8W-3Q1. U.S. Borax and Chemical Corp., well 20. Altitude is 2,472.5 feet. Drilled by owner. 16-inch casing 0-266 feet, uncased hole from 266 to 414 feet.

Sand, clay and gravel, moderately well cemented, occasional granitic boulders	115	115
Sand, clay, and gravel; sand increasing, gravel contains some basalt boulders	60	175
Gravel, sandy with streaks of brown clay	10	185
Clay and sand: sand fine grain, poorly sorted, occasional pebbles	8	193
Gravel and sand, some brown clay	12	205
Clay and sandy gravel, poorly sorted	5	210
Gravel and sand	10	220
Clay, sandy with occasional granitic boulders	5	225
Gravel and sand with some basalt boulders	13	238
Basalt breccia, broken, black, with some red zones	22	260
Basalt, black, dense, alternate zones of easy and hard drilling	80	340
Volcanic ash, white, bedded, tight, tuff	54	394
Basalt, black, dense	20	414

	Thickness (feet)	Depth (feet)
11N/8W-3R1. U.S. Borax and Chemical Corp., well 24. Altitude about 2,471 feet. Drilled by owner. 12-inch casing 0-353 feet; 8-inch casing 347-468 feet; tools in uncased hole 468-500 feet.		
Sand, clay, and gravel; poorly sorted, moderately cemented, occasional boulders of basalt	180	180
Sand and gravel with occasional streaks of reddish-brown clay	25	205
Gravel and sand; mostly quartz and feldspars, with some basalt boulders	65	270
Basalt, black, and broken	7	277
Clay, sandy with some bentonite, reddish-brown sticky, volcanics	2	279
Basalt, broken, and black	1	280
Basalt, broken with streaks of brown ash or clay	31	311
Basalt, broken	9	320
Clay. tuff or volcanic ash, reddish-brown, sandy, contains some bentonite	5	325
Basalt, broken	17	342
Basalt, broken with streaks of reddish-brown clay, with some bentonite	10	352
Basalt, dense. hard, and black	19	371
Clay, reddish-brown, sand, volcanic ash or tuff, contains some bentonite	4	375
Basalt, dense, hard, broken with few streaks of clay	25	400
Basalt, black, cellular, soft	19	419
Basalt, black, with some streaks of ash or clay	53	472
Clay, volcanic ash or tuff, reddish-brown, sandy, bentonitic	10	482
Basalt, black, dense, and hard	18	500
11N/8W-3Z2. U.S. Borax and Chemical Corp., well 14. Altitude about 2,500 feet. Drilled by owner. Casing removed from well.		
Sand	43	43
Silt, sandy	55	98
Gravel	5	103
Sand and gravel, cemented	75	178
Lava, broken	32	210
Basalt, solid	10	220

	Thickness (feet)	Depth (feet)
11N/8W-3Z3. U.S. Borax and Chemical Corp., well 15. Altitude about 2,472 feet. Drilled by owner. Casing removed from well.		
Sand and gravel, cemented (3-ft seam of loose gravel at 64 ft)	115	115
Clay, sandy, and gravel	60	175
Gravel, loose	10	185
Clay, sandy, and gravel	40	225
Gravel and basalt boulders, cemented	10	235
Basalt, broken	7	242
Basalt	97	339
Ash and breccia, volcanic	68	407
Basalt	7	414
11N/8W-10P1. U.S. Borax and Chemical Corp., well 10. Altitude about 2,435 feet. Drilled by owner. 10-inch casing.		
"Decomposed granite"	95	95
Gravel, cemented	14	109
Basalt	65	174
Basalt and sand clay	9	183
Basalt	6	189
Basalt, broken	20	209
Sand, brown, with clay and basalt	30	239
11N/8W-10Z1. U.S. Borax and Chemical Corp., well 11. Altitude about 2,435 feet. Drilled by owner.		
"Decomposed granite"	80	80
Sand, coarse	13	93
Gravel, cemented	47	140
Basalt	168	308
Clay, sandy	2	310
Basalt	12	322

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

11N/8W-11D1. U.S. Borax and Chemical Corp., well 7. Altitude is 2,479.1 feet. Drilled by owner. 14 inch casing.

Sand and gravel-----	285	285	Basalt----------	227	512

11N/8W-11Z1. U.S. Borax and Chemical Corp., well 12. Altitude about 2,475 feet. Drilled by owner.

"Decomposed granite," sand, and gravel--------	97	97	Clay, sandy---------	68	262
Clay, sandy---------	78	175	Gravel and basalt boulders, cemented----------	52	314
"Hardpan"-----------	5	180	Basalt, hard--------	6	320
Gravel, coarse------	3	183	Gravel, cemented----	13	333
Clay with gravel----	11	194	Basalt----------	71	404

11N/8W-15K1. U.S. Borax and Chemical Corp., well 26. Altitude is 2,425.5 feet. Drilled by Mogle Bros., 0-364 feet and Roscoe Moss Drilling Co., 364-678 feet. 14-inch casing 0-486 feet, perforated 170-230 and 360-400 feet, uncased hole 486-678 feet.

Topsoil, sandy, light-brown, with some gravel----------	15	15
Sand and clay: sand, coarse to very coarse, buff, subangular; clay, light-brown----------	95	110
Sand, clay, and gravel, well mixed, compact, light-brown----------	12	122
Clay, light-brown----------	32	154
Sand, clay, and gravel: sand medium to coarse, clay light-brown; gravel up to 3/4 inch containing some basalt pebbles----------	12	166
Clay, sandy, gray, micaceous----------	26	192
Sand and clay, light-gray----------	2	194
Limestone, white to light-gray, hard, siliceous, possibly indurated old caliche zone----------	6	200
Sand, coarse-grain, gray, some pebbles----------	10	210
Clay, gray-green, and sandy----------	18	228
Limestone, white to light-gray, hard, siliceous, possibly indurated old caliche zone----------	2	230
Clay, gray-green----------	5	235

	Thickness (feet)	Depth (feet)
11N/8W-15K1.--Continued		
Limestone, gray, possibly large boulder----------	1	236
Clay, dark-green----------	33	269
Limestone, white to gray, hard, secondary calcity and nodules and bands of siliceous material----------	2½	271½
Shale, gray-green, hard, and dry----------	6	277½
Shale, gray-green, with inclusions of volcanic ash or pumice. Inclusions subrounded to rounded make up to 70 percent of sample----------	2½	280
Shale, light-gray-green----------	2	282
Shale, dark-green, some banding----------	5	287
Sandstone, gray to buff, calcareous, silty, hard, very fine-grain, well sorted, tight----------	1	288
Shale, dark-gray-brown, banded, carbonaceous, micaceous----------	2	290
Shale, gray-green, streaks of yellow material----------	8	298
Shale, bentonitic; contains volcanic debris, possibly pumice----------	2	300
Limestone, tan, dolomitic, siliceous, hard, opalized or cherty seams and nodules----------	15	315
Shale and sandstone; shale light-green, sandstone hard, siliceous, fine-grain----------	5	320
Shale, dark-gray-green, compact----------	20	340
Shale, sandy with inclusions of basalt and scoria-------	2	342
Limestone, white, sandy, hard, possibly indurated caliche----------	1	343
Shale, light-gray-green, fractured, siliceous----------	1	344
Sandstone, dark-gray-green, hard, containing pebbles of cellular basalt, siliceous----------	16	360
Clay, brown, and coarse gravel, some basalt grains------	23	383
Shale, light-gray-green, and sandy----------	17	400
Shale, light-gray-green with some sand----------	20	420
Shale; green, and sandy----------	63	483
Basalt, black, hard with occasional red clay zones------	174	657
Clay, red, and medium to coarse-grained gravel ranging from 1/16-to ¼-inch----------	8	665
Clay, blue-gray, and gravel ranging to ¼-inch----------	13	678

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

11N/8W-16C1. U.S. Borax and Chemical Corp., well 9. Altitude about 2,420 feet. Drilled by owner. 16-inch uncased hole.

Alluvium----------	83	83	Ash and basalt------	15	190
Gravel and boulders-	12	95	Basalt--------------	37	227
Sand and clay-------	80	175			

11N/8W-16D1. U.S. Borax and Chemical Corp., well 8. Altitude about 2,420 feet. Drilled by owner. Uncased hole.

"Decomposed granite"----------	75	75	Basalt--------------	23	150
Basalt--------------	18	93	Basalt and clay-----	39	189
"Decomposed granite"----------	34	127	Basalt--------------	29	218

11N/8W-17R1. Garrett Corp., Rex Division. Altitude about 2,395 feet. Drilled by Rottman Drilling Co. 6-inch casing, perforated 181-366 feet.

Sand----------	20	20	Rock----------	10	176
Sand and rock-------	20	40	Rock, hard----------	36	212
Sand, cemented------	50	90	Rock, broken, and shale----------	4	216
Sand, coarse, and cemented------	13	103	Rock, hard, and black----------	30	246
Sand, coarse, and hard rock---------	20	123	Rock, soft lava-----	10	256
Gravel and rock, hard packed-------	10	133	Rock, soft lava, and sand----------	9	265
Boulders----------	13	146	Lava, black, with soft gray streaks-	32	297
Sand, hard and cemented------	4	150	Lava and rock, hard-	59	356
Boulders----------	4	154	Rock, soft, with streaks of sand---	2	358
Clay----------	4	158	Rock, hard, and black----------	9	367
Gravel, cemented----	8	166			

	Thickness (feet)	Depth (feet)
Sand and clay-------	76	76
Sand, coarse--------	13	89
Sand, coarse, and clay----------	14	103
Sand, coarse--------	25	128
Clay, sandy---------	28	156
Clay, sandy, and gravel----------	18	174
Clay and fine sand--	8	182
Clay and coarse sand----------	13	195
Gravel, coarse, and clay----------	23	218
Clay and hard sand--	11	229
Clay and fine sand--	11	240
Sand, coarse, and clay----------	21	261
Clay and hard sand--	9	270
Clay and fine sand--	14	284
Clay and coarse gravel----------	14	298
Gravel, coarse------	8	306
Sand, coarse, and clay----------	17	323
Clay and sand-------	11	334
Sand, coarse--------	6	340
Clay and gravel-----	18	358
Shell, hard---------	4	362
Clay and coarse sand----------	12	374
Rock and hard sand--	9	383

11N/8W-19L1. U.S. Borax and Chemical Corp., well 42. Altitude is 2,356.1 feet. Drilled by Reliance Drilling Co. 12-inch casing 0-361 feet; perforated 96-361 feet.

11N/8W-20H3. V. L. Wikert. Altitude about 2,380 feet. Drilled by R. C. Clay. 8-inch casing 0-302 feet, perforated 172-302 feet.

	Thickness (feet)	Depth (feet)
Sand and "topsoil"--	3	3
Clay, hard, and red-	9	12
Clay, red, with gravel----------	143	155
Sand, brown, and clay----------	125	280
Clay, sandy, and soft----------	4	284
Sand and gravel-----	7	291
Clay brown, with gravel----------	40	231
Shale, blue---------	32	263
Lava----------	7	270
Clay, blue, and sticky----------	32	302

	Thickness (feet)	Depth (feet)
11N/8W-26A1. C. J. Roycroft. Altitude about 2,425 feet. Drilled by Pacific Coast Borax Co. in 1927, redrilled by owner in 1956. 5-inch casing 0-321 feet, perforated 281-321 feet; uncased hole 321-500 feet, 6-inch casing 500-950 feet, uncased hole 950-1,100 feet.		
"Granite"	1,100	1,100
11N/8W-29K1. U.S. Borax and Chemical Corp., well 41. Altitude is 2,351.8 feet. Drilled by Reliance Drilling Co. 12-inch casing 0-495 feet; perforated 96-495 feet.		
Sand and clay	96	96
Sand, medium	11	107
Sand, coarse, and clay	20	127
Sand, fine, and clay	16	143
Sand, hard	16	159
Clay and coarse gravel	13	172
Clay and boulders	23	195
Sand, hard, and clay	22	217
Clay, fine sand	12	229
Clay, coarse sand	11	240
Sand, coarse, and clay	18	258
Sand, coarse	13	271
Sand, coarse, and clay	14	285
Clay	21	306
Sand, fine, and clay	19	325
Gravel, coarse	11	336
Gravel, coarse, and clay	32	368
Gravel, coarse	6	374
Sand, coarse, and clay	22	396
Gravel, coarse	7	403
Gravel, coarse, and clay	24	427
Clay and gravel, sandy	25	452
Sand, coarse	6	458
Gravel, coarse, and clay	15	473
Gravel, coarse	9	482
Clay and rock	13	495

	Thickness (feet)	Depth (feet)

11N/8W-30Q1. U.S. Borax and Chemical Corp., well 32. Altitude about 2,335 feet. Drilled by Reliance Drilling Co. 12-inch casing 0-485 feet, perforated 96-485 feet.

Sand and clay-------	52	52
Gravel and coarse sand----------	9	61
Gravel and clay-----	11	72
Sand, hard----------	10	82
Sand, coarse--------	12	94
Sand, hard, and clay----------	11	105
Gravel, small, and clay----------	11	116
Sand, fine, and gravel----------	11	127
Clay and fine sand--	14	141
Gravel and clay-----	9	150
Clay and coarse sand----------	22	172
Gravel, coarse, and sand----------	14	186
Gravel and coarse sand----------	9	195
Gravel and clay-----	22	217
Clay and coarse sand----------	14	231
Gravel, coarse------	9	240
Clay and coarse sand----------	21	261
Sand, fine, and clay----------	22	283
Clay and coarse gravel----------	12	295
Clay----------	11	306
Clay and fine sand--	19	325
Clay and gravel-----	14	339
Clay----------	11	350
Gravel, coarse, and sand----------	14	364
Sand, coarse, and clay----------	14	378
Sand, cemented------	10	388
Gravel, coarse, and clay----------	12	400
Gravel and sand-----	8	408
Gravel, coarse, and clay----------	20	428
Sand, coarse--------	5	433
Sand and rock, cemented----------	52	485

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

11N/8W-31P1. U.S. Borax and Chemical Corp., well 39. Altitude is 2,322.1 feet. Drilled by Reliance Drilling Co. 12-inch casing 0-303 feet: perforated 96-303 feet.

Sand and clay-------	96	96	Gravel, coarse, and rock----------	9	236
Sand, medium--------	12	108	Sand, medium, and gravel--------	8	244
Sand, coarse, and clay----------	19	127	Gravel, coarse, and clay----------	24	268
Sand, coarse--------	12	139	Sand, and rock, hard----------	4	272
Sand, coarse, and clay----------	22	161	Rock and cemented sand----------	18	290
Gravel, coarse------	11	172	Sand, cemented------	10	300
Gravel, coarse, and clay----------	26	198	Rock----------	3	303
Gravel, coarse------	9	207			
Gravel, coarse, and clay----------	20	227			

11N/8W-32A1. Boron Community Services District, well 15. Altitude about 2,350 feet. Drilled by Fred Kennedy. Perforated 281-530 feet.

Sand, hard, with boulders and gravel----------	60	60	Clay, sandy, with boulders----------	40	250
Sand and gravel-----	10	70	Sand, hard and gray-	20	270
Sand and boulders---	10	80	Sand, with hard shells----------	130	400
Sand, cemented------	10	90	Sand with streaks of clay----------	30	430
Sand, cemented, with boulders-----	10	100	Sand, hard----------	70	500
Sand, cemented------	10	110	Sand, hard, with clay---------	30	530
Clay, sandy---------	50	160			
Clay, sandy, with hard shells-------	50	210			

	Thickness (feet)	Depth (feet)
11N/8W-32H1. Boron Community Services District, well 13. Altitude about 2,340 feet. Drilled by R. C. Clay. 12-inch casing 0-504 feet, perforated 200-504 feet.		
Sand and "caliche"	5	5
Sand, arkosic, very coarse and well sorted, with few boulders	10	15
Sand, arkosic, brown, and coarse	40	55
Sand, arkosic, coarse, 20 percent fine sand	50	105
Sand, arkosic, with 40 percent fine sand and silt	10	115
Sand, arkosic, coarse, poorly sorted, some lime	10	125
Sand, arkosic, coarse to medium, poorly sorted, some lime	45	170
Sand, arkosic, coarse, poorly sorted, some lime, 10 percent white tuff	35	205
Sand, arkosic; silt and clay, red-brown; and 10 percent white tuff	20	225
Clay, silty, red-brown, with streaks of white tuff	50	275
Sand, arkosic, medium, poorly sorted	15	290
Sand, arkosic, coarse, subangular to subrounded, fair sorting	35	325
Sand, arkosic, coarse, poorly sorted	55	380
Sand, arkosic, coarse, poorly sorted, with 10 percent tuffeous lime	10	390
Sand, arkosic, coarse granular	15	405
Sand, arkosic, coarse granular, with traces of basalt	20	425
Sand, arkosic, coarse, fair sorting	30	455
Sand, arkosic, and boulder fragments	10	465
Clay and silt, buff to brown	20	485
Sand, arkosic and boulders, fair sorting	19	504

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

11N/8W-33L1. California Borax Co. Altitude about 2,345 feet. Drilled by R. C. Clay. 10-inch casing 0-500 feet; perforated 290-320 and 383-485 feet.

Clay, brown---------	140	140	Clay, sandy---------	2	382
Shale, gray, and sand----------	20	160	Clay, sticky--------	5	387
Clay, yellow-brown, and sand----------	35	195	Clay, brown and sandy----------	11	398
Clay, reddish, and coarse sand-------	15	210	Clay, sticky--------	6	404
Clay, sticky and red, with some sand----------	15	225	Clay, sandy---------	5	409
Clay, brown and sticky, with some sand---------	57	282	Sand with streak of gravel---------	4	413
Sand, coarse, with some red gravel---	33	315	Clay, sticky--------	2	415
Gravel, cemented----	2	317	Clay, sticky, with some gravel-------	6	421
Clay, red and sticky, and sand with gravel-------	38	355	Clay, sticky--------	17	438
Clay, sticky--------	25	380	Sand, clay, and some gravel-------	3	441
			Clay, sticky--------	3	444
			Sand and gravel, very sandy--------	6	450
			Sand, gravel, and cobbles----------	15	465
			Clay, sandy---------	4	469
			Clay, sticky--------	31	500

11N/8W-35D1. H. B. Hays, Desert Lake. Altitude is 2,382.0 feet. Drilled by Reliance Drilling Co. 12-inch casing 0-606 feet; perforated 96-606 feet.

Sand and clay----------	68	68
Sand, coarse, and clay----------	13	81
Sand, medium----------	15	96
Sand, coarse, and clay----------	16	112
Sand, coarse----------	8	120
Sand, coarse, and clay----------	17	137
Sand, coarse----------	5	142
Clay, sandy----------	21	163
Clay, with streaks of hard shell----------	17	180
Sand, medium----------	9	189
Sand, medium, and clay----------	17	206

	Thickness (feet)	Depth (feet)
11N/8W-35D1.--Continued		
Sand, coarse	5	211
Sand, coarse, and clay	15	226
Clay and fine sand	12	238
Gravel, coarse, and clay	13	251
Sand, coarse	16	267
Clay and fine sand	12	279
Gravel, coarse, and clay	15	294
Sand, fine	11	305
Clay, sandy	14	319
Sand, coarse, and clay	17	336
Sand, medium, and clay	16	352
Gravel, coarse, and clay	17	369
Sand, coarse, and clay	13	382
Sand, fine, and clay	13	395
Clay, sandy	21	416
Gravel, coarse, and clay	13	429
Sand, coarse, and clay	11	440
Clay, sandy	11	451
Sand, coarse	11	462
Sand, fine, and clay	16	478
Clay, sandy	18	496
Sand, coarse, and clay	13	509
Clay, sandy	10	519
Sand, coarse	13	532
Sand, fine, and rock	10	542
Sand and rock, cemented	25	567
Gravel and clay	10	577
Sand and rock, hard	12	589
Sand, coarse	8	597
Clay and rock	9	606

	Thickness (feet)	Depth (feet)
11N/9W-13D1. U.S. Borax and Chemical Corp., well 40. Altitude about 2,375 feet. Drilled by Reliance Drilling Co. 12-inch casing 0-312 feet; perforated 96-312 feet.		
Sand and clay-------	96	96
Sand, medium--------	13	109
Sand, medium, and clay----------	18	127
Sand, fine and hard-	11	138
Sand, medium, and clay----------	25	163
Sand, medium--------	9	172
Sand, medium, and clay----------	18	190
Sand, coarse--------	13	203
Sand, coarse, and clay----------	27	230
Sand, coarse--------	9	239
Sand, coarse, and clay----------	8	247
Clay and coarse sand----------	14	261
Gravel, coarse, and clay----------	12	273
Sand, fine, and clay----------	11	284
Sand and rock, cemented----------	21	305
Clay and rock-------	7	312
11N/9W-13L1. U.S. Borax and Chemical Corp., well 45. Altitude about 2,360 feet. Drilled by Reliance Drilling Co. 12-inch casing 0-462 feet; perforated 144-462 feet.		
Sand and clay-------	68	68
Sand, coarse, and clay----------	14	82
Sand, fine, and clay----------	14	96
Sand, coarse, and clay----------	12	108
Gravel, coarse, and clay----------	11	119
Sand, fine, and clay----------	13	132
Sand, coarse, and clay----------	12	144
Sand, medium--------	12	156
Sand, medium, and clay----------	22	178
Sand, coarse--------	8	186
Sand, medium, and clay----------	26	212
Sand, cemented------	11	223
Sand, fine, and clay----------	25	248
Sand, coarse--------	6	254
Clay with small boulders----------	19	273
Sand, coarse--------	8	281
Rock, black---------	154	435
Rock, black, with thin streaks of clay----------	16	451
Rock, black---------	11	462

	Thickness (feet)	Depth (feet)

11N/9W-19D1. F. A. Hefferman. Altitude about 2,400 feet. Drilled by R. C. Clay. 6-inch casing 0-200 feet; perforated 176-196 feet.

Sand and "topsoil"	3	3
Clay, hard, red, and brown: and "hardpan"	15	18
Clay, hard and brown	50	68
Clay, hard and brown, with small amount of coarse gravel	22	90
Clay, brown: turning yellow with depth	28	118
Clay, brown-yellow, softer	8	126
Sand, fine; changing to pea gravel with depth	6	132
Sand, coarse and brown, with clay	16	148
Clay, light-brown	12	160
Clay, brown and soft, with sand	12	172
Clay, brown and soft; becoming harder with depth	28	200

11N/9W-23B3. D. L. Fisher. Altitude about 2,350 feet. Drilled by R. C. Clay. 8-inch casing 0-260 feet.

"Topsoil," gravel, and lava chunks	3	3
Lava, solid	27	30
Clay, brown and yellow	10	40
Clay, brown and yellow, hard	25	65
Clay, blue, with some granite chunks	40	105
Clay, blue, with some granite particles	50	155
Clay, blue, with some granite particles, hard	35	190
"Decomposed granite" in layers	15	205
Decomposed granite boulders between layers of blue clay. Boulders get larger with depth	55	260

	Thickness (feet)	Depth (feet)
11N/9W-24A1. U.S. Borax and Chemical Corp., well 27. Altitude is 2,348.5 feet. Drilled by Roscoe Moss Drilling Co. 16-inch casing 0-888 feet; perforated 200-870 feet, uncased hole 888-900 feet.		
Sand, light-brown	1	1
Sand and clay, light-brown, few pebbles and boulders; sand fine to very coarse grain, subangular, quartz and feldspars predominant with occasional pebbles of dark-reddish-brown basalt	107	108
Clay, sandy, light-brown, sand fine-grain, quartz, and feldspar	10	118
Clay, sandy, light-gray	69	187
Sand, clay, and gravel, light-brown; sand very coarse; gravel up to 1 inch well rounded	5	192
Clay, light-brown, sandy with few pebbles of granitic material	108	300
Clay and sand, light-brown, hard	48	348
Sand, clay, and gravel, light-brown, poorly sorted; sand fine to coarse grain, pebbles and boulders of basalt and granitic material subrounded	2	350
Sand and clay, light-brown, hard; some basalt pebbles	20	370
Sand, gravel, and clay; sand fine to very coarse, quartz and feldspars predominant; gravel mostly basalt, scoria and other volcanic-flow material	18	388
Sand, clay, and gravel, brown; sand very coarse; gravel mostly basalt and other flow material, poorly sorted	60	448
Basalt, broken, soft; clay filling in cracks and fissures	9	457
Sand, gravel, and clay; very coarse sand and basalt; pebbles poorly sorted in a clay matrix	18	475
Sand, clay, and gravel, hard, cemented; coarse material mostly basalt and granitic material	33	508
Clay, light-brown, sandy, hard	92	600
Clay and sand; light-brown, hard, with occasional pebbles up to 1 inch	140	740
Sand, clay, and gravel, light-gray-green; sand very coarse, 10 percent to 20 percent of sample composed of subrounded basaltic and granitic pebbles ranging up to 2-inch diameter. Clay and sand contain some volcanic ash	55	795

	Thickness (feet)	Depth (feet)
11N/9W-24A1.--Continued		
Sand and gravel, silty, composed of basalt, pebbles, and boulders, well cemented in a sandy-clay matrix: contains some volcanic ash	20	815
Clay and sand, light-brown, some $\frac{1}{4}$-inch gravel	20	835
Clay, sandy, light-gray-green	25	860
Clay, sandy, dark-gray-green	30	890
Sand and clay, gray-green with yellowish-brown zones; sand mostly volcanic debris "bottom"	10	900

11N/9W-24B2. U.S. Borax and Chemical Corp., well 43. Altitude about 2,345 feet. Drilled by Reliance Drilling Co. 12-inch casing 0-542 feet; perforated 96-542 feet.

Sand and clay	96	96
Sand, coarse, and clay	23	119
Sand, coarse	7	126
Sand, coarse, and clay	13	139
Sand, fine, and clay	11	150
Sand, hard, and clay	9	159
Gravel, coarse, and clay	13	172
Sand, coarse	16	188
Sand, fine, and clay	15	203
Sand, medium, and clay	13	216
Sand, coarse, and clay	23	239
Gravel, coarse, and clay	21	260
Boulders and clay	11	271
Sand, coarse	17	288
Sand, coarse, and clay	18	306
Clay and fine sand	15	321
Clay and coarse sand	29	350
Clay, sandy	22	372
Sand, medium	21	393
Sand, medium, and clay	23	416
Sand, coarse	7	423
Sand, coarse, and clay	15	438
Sand, coarse	9	447
Sand, coarse, and clay	13	460
Clay, sandy	21	481
Sand, coarse	12	493

	Thickness (feet)	Depth (feet)
11N/9W-24B2.--Continued		
Sand, coarse, and clay	15	508
Sand and rock, hard	9	517
Clay and rock	4	521
Sand and rock, hard	12	533
Gravel, coarse, with clay and rock	9	542

11N/9W-24Q1. U.S. Borax and Chemical Corp., well 33. Altitude about 2,335 feet. Drilled by Reliance Drilling Co. 12-inch casing 0-360 feet; perforated 96-360 feet.

Sand and clay	96	96
Sand, coarse, and clay	18	114
Sand, coarse	9	123
Gravel and clay	17	140
Sand, coarse	8	148
Sand and clay	14	162
Sand, coarse	14	176
Sand, coarse, and clay	13	189
Sand, medium	12	201
Sand, coarse, and clay	13	214
Sand, medium	9	223
Sand, coarse, and clay	13	236
Sand, coarse	12	248
Sand, medium, and clay	13	261
Sand, medium	9	270
Sand, cemented	14	284
Sand and gravel, cemented	9	293
Boulders and hard sand	12	305
Sand, hard	15	320
Sand, fine, and hard	15	335
Sand, cemented with clay	14	349
Sand, medium	4	353
Clay and sand	7	360

	Thickness (feet)	Depth (feet)
11N/9W-25L1. U.S. Borax and Chemical Corp., well 34. Altitude is 2,324.0 feet. Drilled by Reliance Drilling Co. 12-inch casing 0-480 feet; perforated 96-480 feet.		
Sand and clay-------	64	64
Gravel, coarse, with clay---------	12	76
Sand, coarse, and clay----------	22	98
Sand, fine, and clay----------	18	116
Gravel, coarse, and clay----------	16	132
Sand, coarse, and clay----------	18	150
Sand, fine, and clay----------	11	161
Sand, hard, and clay----------	11	172
Gravel, coarse, and sand----------	10	182
Sand, hard----------	12	194
Sand, coarse, and clay----------	15	209
Gravel, coarse, and clay----------	16	225
Sand, fine, and clay----------	15	240
Sand, coarse, and clay----------	16	256
Sand, hard----------	8	264
Sand, fine, and clay----------	15	279
Sand, medium, and clay----------	14	293
Clay and boulders---	14	307
Sand, hard, and clay----------	10	317
Clay and fine sand--	8	325
Sand, coarse, and gravel----------	11	336
Sand, coarse, and clay----------	14	350
Sand, medium--------	11	361
Gravel and clay-----	16	377
Gravel, coarse------	7	384
Gravel and clay-----	12	396
Sand, cemented------	10	406
Gravel and clay-----	13	419
Clay and small boulders----------	8	427
Sand and gravel-----	7	434
Sand, coarse, and clay----------	9	443
Clay and sand-------	17	460
Sand, medium--------	9	469
Clay and coarse gravel----------	8	477
"Shell," hard-------	3	480

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

11N/9W-28C1. Harry Levy. Altitude is 2,203.3 feet. Drilled by Pacific Coast Borax Co. 5-inch casing.

Sand, pack----------	40	40	Quartz--------------	37	702
Gravel--------------	10	50	Sandstone, hard and blue----------	6	708
Sand----------------	20	70	Sand, granite-------	152	860
Sand and gravel-----	110	180	Sandstone, hard and blue----------	40	900
Gravel, coarse------	5	185	Shale, hard and blue, sandy-------	36	936
Shale, brown--------	5	190	Shale, hard and brown, sandy------	19	955
Shale, sticky, and green---------	45	235	Shale, blue, and sandy-------------	15	970
Shale, brown--------	5	240	Shale, light-gray, and sandy---------	76	1,046
Shale, dark-gray----	20	260	Shale, brown, and sandy-------------	14	1,060
Shale, brown--------	10	270	Sandstone, hard, and white---------	12	1,072
Shale, dark-gray----	8	278	Shale, brown and sandy-------------	13	1,085
Sand, granitic------	12	290	Shale, gray, and sandy-------------	40	1,125
Shale, gray, and sandy-------------	13	303	Shale, brown, and sandy-------------	35	1,160
Shale, blue---------	23	326	Shale, gray, and sandy-------------	50	1,210
Shale, brown--------	50	376	Sand, granite-------	130	1,340
Shale, blue---------	9	385			
Sandstone, hard, and blue----------	68	453			
Shale, blue---------	10	463			
Sandstone, hard, and blue----------	5	468			
Shale, blue-green---	59	527			
Sandstone, hard, and dark-gray-----	148	675			

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

11N/9W-28K2. Edgemont Acres Water Co. Altitude about 2,302 feet. Drilled by Rattman Drilling Co. 12-inch casing 0-301.5 feet; perforated 131.5-301.5 feet.

Clay and sand, fine-	50	50	Sand, coarse, and gravel--------	23	230
Sand, coarse--------	56	106	Sand, coarse, with streaks of clay---	17	247
Sand, coarse, and clay----------	59	165	Sand, coarse, rocks, with streaks of clay---	21	268
Sand, coarse, and gravel--------	30	195	Rocks and sand------	35	303
Sand, coarse, with streaks of clay---	12	207			

11N/9W-29H1. U.S. Borax and Chemical Corp., well 37. Altitude is 2297.6 feet. Drilled by Reliance Drilling Co. 12-inch casing 0-395 feet; perforated 96-395 feet.

Sand and clay-------	58	58	Sand, medium--------	13	241
Sand, coarse--------	13	71	Sand, coarse, and clay----------	15	256
Sand, coarse, and gravel----------	17	88	Sand, medium, and clay----------	11	267
Sand, coarse, and clay----------	15	103	Sand, medium--------	7	274
Clay and gravel-----	9	112	Sand, medium and clay----------	16	290
Gravel, coarse, and clay----------	14	126	Gravel, coarse, and clay----------	15	305
Gravel, coarse------	12	138	Sand and clay, hard-	11	316
Gravel, coarse, and clay----------	18	156	Clay and gravel-----	10	326
Sand, coarse, and gravel--------	7	163	Clay----------	14	340
Sand, coarse, and clay----------	17	180	Sand, fine, and clay----------	10	350
Gravel----------	9	189	Gravel, coarse, and clay----------	13	363
Gravel and clay-----	17	206	Sand, hard, and clay----------	9	372
Clay and sand-------	11	217	Sand and rock, hard and cemented-	23	395
Sand, coarse, and clay----------	11	228			

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

11N/9W-29K1. U.S. Borax and Chemical Corp., well 38. Altitude is 2291.9 feet. Drilled by Reliance Drilling Co. 12-inch casing 0-405 feet; perforated 96-405 feet.

Sand and clay-------	96	96	Clay and gravel-----	19	268
Sand, coarse, and clay----------	18	114	Sand, coarse--------	6	274
Sand, coarse--------	12	126	Clay and gravel-----	22	296
Sand, medium, and clay----------	16	142	Sand, medium and gravel----------	13	309
Sand, coarse--------	14	156	Sand, coarse, and gravel--------	14	323
Sand, coarse, and clay----------	12	168	Clay and coarse gravel----------	15	338
Gravel and small boulders----------	9	177	Gravel, coarse, and coarse sand---	13	351
Sand, coarse, and clay----------	16	193	Gravel with clay----	17	368
Sand, medium--------	10	203	Gravel, coarse------	6	374
Gravel and clay-----	14	217	Sand and clay, hard-	12	386
Sand, medium and gravel----------	11	228	Gravel, coarse, and clay----------	9	395
Gravel and clay-----	13	241	Sand, hard, and coarse gravel-----	10	405
Gravel--------------	8	249			

11N/9W-34K1. Millhollin. Altitude about 2,300 feet. Drilled by Pauley Bros. 6-inch casing.

Clay----------------	29	29	Clay and gravel-----	16	106
Gravel, coarse------	1	30	Gravel and "quicksand"-------	10	116
Clay, sandy---------	22	52	Clay, sandy---------	8	124
Gravel and sand-----	2	54	Clay, sandy, with some streaks of coarse gravel and sand----------	23	147
Clay----------------	4	58			
Clay and gravel-----	31	89			
Gravel--------------	1	90			

	Thickness (feet)	Depth (feet)
11N/9W-36A1. U.S. Borax and Chemical Corp., well 28. Altitude is 2,323.8 feet. Drilled by Roscoe Moss Drilling Co. 16-inch casing 0-486 feet; perforated 110-470 feet; uncased hole 486-610 feet.		
Clay, sandy---------	32	32
Sand, cemented------	58	90
Clay, brown, and sandy----------	45	135
Sand, coarse, and gravel to $\frac{1}{4}$-inch--	7	142
Clay, brown and sandy----------	68	210
Boulders in cemented sand-----	120	330
Sand, cemented------	18	348
Boulders of sandy clay--------	27	375
Sand and boulders cemented----------	15	390
Boulders and sandy clay--------	5	395
Clay, sandy, and boulders, with some shale--------	151	546
Clay, sandy, and boulders----------	64	610
11N/9W-36C1. U.S. Borax and Chemical Corp., well 30. Altitude is 2,320.9 feet. Drilled by Reliance Drilling Co. 12-inch casing 0-407 feet; perforated 96-407 feet.		
Sand and clay-------	50	50
Gravel, medium------	15	65
Gravel with sandy clay--------	15	80
Gravel, coarse------	25	105
Gravel with clay----	13	118
Gravel, coarse, with streaks of clay----------	42	160
Clay----------	12	172
Gravel, medium, with clay---------	24	196
Gravel, coarse------	10	206
Gravel, coarse, with clay---------	12	218
Sand, coarse--------	12	230
Sand and clay, hard-	14	244
Clay, sandy---------	14	258
Sand, hard----------	13	271
Gravel, coarse------	9	280
Gravel, coarse, with clay---------	13	293
Sand and gravel, hard----------	10	303
Sand, fine, and gravel----------	13	316
Clay, sandy---------	9	325
Boulders and hard sand----------	6	331
Gravel, coarse------	16	347
Boulders and clay---	14	361
Gravel and boulders-	13	374
Sand, cemented------	8	382
Sand and clay-------	12	394
Sand, medium--------	8	402
Clay and boulders---	5	407

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

11N/9W-36C2. U.S. Borax and Chemical Corp., well 35. Altitude about 2,325 feet. Drilled by Roscoe Moss Drilling Co. 10-inch casing 0-348 feet; perforated 110-336 feet.

Sand----------	1	1	Clay, sandy, and brown, with streaks of coarse sand-------	107	315
Clay, sandy---------	139	140	Clay, sandy---------	42	357
Sand and small gravel, muddy-----	32	172	Clay, sandy, with cemented streaks--	15	372
Clay, sandy, and brown----------	36	208			

11N/9W-36C3. U.S. Borax and Chemical Corp., well 36. Altitude is 2,315.4 feet. Drilled by Roscoe Moss Drilling Co. 10-inch casing 0-376 feet; perforated 110-364 feet.

Sand----------	10	10	Clay, sandy, with streaks of coarse sand-------	140	278
Clay, sandy---------	93	103	Clay, sandy---------	104	382
Sand and small gravel, with streaks of coarse sand-------	35	138			

11N/9W-36D1. U.S. Borax and Chemical Corp., well 29. Altitude is 2,312.2 feet. Drilled by Roscoe Moss Drilling Co. 14-inch casing 0-370 feet; perforated 110-350 feet; uncased hole 370-414 feet.

Sand----------	5	5	Sand and gravel, 2-inch, cemented----------	5	340
Clay, brown, and sandy----------	170	175	Clay and boulders---	25	365
Clay, sandy, very little clay-------	50	225	Sand and gravel, cemented----------	49	414
Clay, sandy, and gravel, 1½-inch---	110	335			

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

11N/9W-36H1. U.S. Borax and Chemical Corp., well 31. Altitude is 2,316.5 feet. Drilled by Reliance Drilling Co. 12-inch casing 0-250 feet; perforated 96-250 feet; uncased hole 250-300 feet.

Sand and clay-------	50	50	Gravel, fine--------	19	169
Sand, hard, and coarse----------	11	61	Gravel and clay-----	5	174
Gravel and clay-----	17	78	Gravel, coarse------	7	181
Gravel, coarse------	14	92	Clay and boulders---	33	214
Gravel with clay----	12	104	Sand and boulders, cemented----------	5	219
Sand, hard----------	12	116	Clay and boulders---	11	230
Gravel, small, and clay----------	10	126	Gravel and clay-----	11	241
Sand, fine, and clay----------	14	140	Clay and boulders---	9	250
Gravel and clay-----	10	150	Sand, cemented------	13	263
			Sand and rock, cemented----------	37	300

11N/9W-36R1. U.S. Air Force. Altitude is 2,312.5 feet. Drilled by Mogle Bros. Drilling Co. 10-inch casing 0-298 feet, perforated 100-132 feet.

Sand----------	5	5	Clay, hard----------	16	148
Clay, hard----------	27	32	"Decomposed granite"----------	12	160
Sand and clay, hard-	68	100	Granite, hard, and red, and rock-----	138	298
Rock and gravel-----	32	132			

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

11N/10W-36A1. A. F. Green. Altitude about 2,340 feet. Drilled by D. W. Slocum. 10-inch casing 0-300 feet; perforated 198-300 feet.

Sand----------	14	14	Sand, coarse--------	9	179
Clay, yellow, and sandy----------	26	40	Clay, yellow, and sandy----------	15	194
Sand, coarse--------	6	46	Sand, coarse--------	8	202
Clay, yellow and sandy, and rocks--	9	55	Clay, yellow, and sandy----------	14	216
Sand, coarse--------	7	62	Sand, coarse, and gravel----------	14	230
Clay, yellow, and sandy----------	16	78	Clay, yellow, and sandy----------	15	245
Sand, coarse, and rock----------	7	85	Sand, coarse, and rocks----------	13	258
Clay, yellow, and sandy----------	22	107	Clay, yellow, and sandy----------	12	270
Sand, coarse--------	8	115	Sand, coarse, and gravel----------	5	275
Clay, yellow, and sandy----------	10	125	Clay, yellow, and sandy----------	8	283
Sand, coarse--------	7	132	Sand, coarse--------	5	288
Clay, yellow, and sandy----------	16	148	Clay, yellow--------	12	300
Sand, coarse--------	11	159			
Clay, yellow, and sandy----------	11	170			

11N/10W-36B1. A. F. Green. Altitude about 2,345 feet. Drilled by D. W. Slocum. 8-inch casing 0-238 feet; perforated 159-238 feet.

Sand, fine, and brown clay--------	18	18	Clay, hard, with small rocks-------	11	151
Clay----------	28	46	Sand----------	8	159
Sand----------	5	51	Clay and gravel, mixed----------	9	168
Clay and gravel-----	32	83	Sand, fine----------	8	176
Sand----------	15	98	Clay----------	14	190
Clay, gray----------	14	112	Gravel----------	14	204
Clay, hard, and white----------	17	129	Clay, hard packed---	14	218
Clay with hard streaks----------	11	140	Sand and gravel-----	20	238
			Rock----------	--	238

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

11N/10W-36H1. Atchison, Topeka, and Santa Fe Railway. Altitude is 2,337.0 feet. Drilled by Beylic Bros. Drilling Co. 10-inch casing 0-300 feet; uncased hole 300-320 feet.

"Topsoil"	5	5	Sand, coarse, and clay	10	150
Sand	5	10	Sand, coarse, gravel and clay	50	200
Sand and clay	10	20	Gravel, coarse, and clay, hard	10	210
Clay, sandy	30	50	Boulders, small, gravel and clay	10	220
Sand, fine, gravel, and clay, hard	10	60	Sand and gravel	10	230
Gravel, coarse, and sand, hard	20	80	Sand, gravel, and clay, hard	20	250
Gravel, coarse, and clay	10	90	Gravel, sand, and hard clay	10	260
Clay, soft, and gravel	10	100	Sand, gravel, and hard clay	20	280
Gravel, coarse, and hard clay	10	110	"Decomposed granite"	35	315
Clay, soft, and gravel	10	120	Granite, hard	5	320
Clay, sandy, and gravel	20	140			

29S/39E-33H1. Stockton, Works, et al. Altitude about [illegible] feet. Drilled by D. W. Slocum. 16-inch casing 0-460 feet; perforated 200-460 feet.

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Sand	6	6	Gravel, coarse and rock	14	320
Rock and gravel	90	96	Clay, yellow, and rock	24	344
Clay, yellow	8	104	Sand, coarse, and gravel	6	350
Rock and gravel	15	119	Clay, yellow, and rock	45	395
Clay, yellow, and rock	45	164	Sand, coarse, and gravel	11	406
Gravel and rock	22	186	Clay and rock	34	440
Clay, yellow	32	218	Rock and brown sand	10	450
Gravel, coarse, and rock	34	252	Clay and rock	6	456
Clay, yellow, and rock	24	276	Rock	4	460
Gravel, coarse, and rock	14	290			
Clay, yellow, and rock	16	306			

29S/39E-33K1. Jesse Stockton. Altitude about [illegible] feet. Drilled by D. W. Slocum. 16-inch casing 0-402 feet; perforated 210-402 feet.

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Sand	4	4	Sand, coarse	5	156
Rocks and sand	4	8	Clay, yellow	7	163
Clay, yellow	10	18	Sand, coarse	4	167
Sand and rocks	22	40	Clay, yellow	11	178
Clay, yellow	8	48	Sand, coarse	4	182
Rocks and sand	12	60	Clay, yellow	19	201
Clay, yellow	12	72	Sand, coarse	2	203
Sand, coarse	16	88	Clay, yellow	6	209
Clay, yellow	5	93	Sand, coarse	5	214
Sand, coarse	14	107	Clay, yellow	14	228
Clay, yellow	5	112	Sand, coarse	6	234
Sand, coarse	8	120	Clay, yellow	11	245
Clay, yellow, and rocks	20	140	Sand, coarse	7	252
Sand, coarse	4	144	Clay, yellow	12	264
Clay, yellow	7	151	Sand, coarse, and gravel	8	272

	Thickness (feet)	Depth (feet)
29S/39E-33K1.--Continued		
Clay, yellow--------	8	280
Sand, coarse, and gravel--------	8	288
Clay, yellow--------	6	294
Sand, coarse, and gravel--------	6	300
Clay, yellow--------	11	311
Sand, coarse--------	7	318
Clay, yellow--------	11	329
Sand, coarse and gravel--------	6	335
Clay, yellow--------	9	344
Sand, coarse, and gravel--------	4	348
Clay, yellow--------	12	360
Sand, coarse, and gravel--------	4	364
Clay, yellow--------	12	376
Sand, coarse, and gravel--------	5	381
Clay, yellow--------	21	402

30S/37E-13E1. Crookshank, well 1. Altitude about 2,185 feet. 18-inch surface casing, not perforated.

Sand and gravel----------	103	103
Sand, hard----------	70	173
Clay, with streaks of hard sand----------	157	330
Shale and streaks of sand----------	245	575
Shale----------	25	600
Gravel----------	15	615
Sand, hard----------	20	635
Shale, brown----------	50	685
Sand and shale streaks, hard----------	87	772
Shale and hard shells----------	118	890
Shale, sandy----------	70	960
Shale, brown, and sandy----------	157	1,117
Sand and shale streaks----------	183	1,300
Shale----------	15	1,315
Shale, sandy----------	10	1,325
Shale----------	32	1,357
Sand----------	23	1,380
Shale and sand in streaks----------	110	1,490
Shale, blue----------	42	1,532
Shale, blue, and streaks of sand----------	65	1,597
Shale, blue----------	20	1,617
Shale, blue, and streaks of sand----------	46	1,663
Sand, hard----------	52	1,715
Shale, sticky, and blue----------	44	1,759
Sand----------	2	1,761

	Thickness (feet)	Depth (feet)
30S/37E-13E1.--Continued		
Shale, hard	34	1,795
Shale, hard, and sandy	88	1,883
Shale, sandy	112	1,995
Shale, tough, and brown	21	2,016
Shale, sandy	113	2,129
Shale, sticky, and blue	14	2,143
Shale, hard, and brown	45	2,188
Sand	51	2,239
Shale, sticky, and brown	34	2,273
Shale, blue, and sandy	44	2,317
Shale, hard, and brown	31	2,348
Sand	38	2,386
Shale, brown	25	2,411
Sand	11	2,422
Shale, hard, and brown	54	2,476
Sand streaks and blue shale	38	2,514
Lime in streaks	16	2,530
Shale, hard, and brown	8	2,538
Shale, sandy	55	2,593
Shale, sticky, and brown	17	2,610
Sand and shells	60	2,670
Shale, hard, and sandy	64	2,734
Shale, hard, and blue	53	2,787
Sand with streaks of shale	65	2,852
"Bentinite" in sand	18	2,870
Shale, hard, and brown	30	2,900
Sand	10	2,910

30S/37E-13F1. Crookshank, well 1A. Altitude about 2,110 feet. 12-inch surface casing, not perforated.

Sand with some clay	967	967
Sand, light buff-yellow color, fine- to medium-grained, firm, friable	20	987
Sand with some clay	325	1,312
Claystone or mudstone, light greenish-brown or buff, massive, no apparent dips; fine to medium sand with interstitial silt, greenish-gray	20	1,332
Sand with some clay	527	1,859

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

30S/37E-24B1. Southern Pacific Co. Altitude about 2,[illegible] feet. 12-inch casing.

Sand and silt-------	81	81	Sand, coarse--------	13	152
"Hardpan"-----------	15	96	"Hardpan"-----------	130	282
Sand and fine gravel------------	10	106	Sand, coarse--------	3	285
"Hardpan"-----------	14	120	Clay, sandy---------	109	394
Sand, coarse--------	15	135	Gravel, coarse------	5	399
Clay----------------	1	136	Clay, sandy---------	14	413
Gravel, coarse------	3	139	Sand, fine----------	1	414
			Clay, sandy---------	86	500

30S/37E-25M1. M and R, Cantil Ranch, well 4. Altitude about 1,978 feet. 18-inch casing 0-282 feet, 12-inch casing 288-692 feet; perforated 120-282 and 288-692 feet.

Sand----------------	20	20	Clay, sandy---------	30	305
Clay, sandy---------	18	38	Sand----------------	100	405
Sand----------------	47	85	Clay----------------	25	430
Sand, coarse--------	30	115	Sand and gravel-----	40	470
Clay----------------	65	180	Clay, sandy---------	46	516
Sand----------------	50	230	Clay----------------	14	530
Clay----------------	45	275	Sand----------------	155	685
			Clay----------------	7	692

30S/37E-26E1. M and R, Cantil Ranch, well 13. Altitude about 2,[illegible]35 feet. Drilled by Clarence Raley. 14-inch casing 0-485 feet; perforated 233-485 feet.

Sand, red----------	485	485

30S/37E-35D1. M and R, Cantil Ranch, well 5. Altitude about 2,015 feet. 18-inch casing 0-282 feet, 12-inch casing 282-844 feet; perforated 120-282 and 288-844 feet.

	Thickness (feet)	Depth (feet)
"Topsoil"	20	20
Sand	30	50
Boulders and clay	40	90
Sand	25	115
Clay, blue	5	120
Sand and blue clay	60	180
Sand, gray	32	212
Sand with streaks of clay	103	315
Sand	56	371
Sand with streaks of clay	84	455
Clay, sandy	40	495
Sand	65	560
Sand with streaks of clay	64	624
Clay, sandy	56	680
Sand, hard	22	702
Sand, fine	32	734
Sand with streaks of clay	90	824
Clay	20	844

30S/37E-35Q1. M and R, Cantil Ranch, well 9. Altitude about 2,015 feet. 20-inch casing 0-408 feet, 12-inch casing 408-810 feet; perforated 246-408 and 414-810 feet.

	Thickness (feet)	Depth (feet)
"Topsoil" and yellow clay	68	68
Clay, blue	22	90
Clay, blue, and sandy	80	170
Clay, yellow	20	190
Sand, blue, with streaks of clay	140	330
Sand, coarse	220	550
Clay	40	590
Sand, coarse, and streaks of clay	120	710
Clay	50	760
Sand	32	792
Clay	18	810

30S/37E-36C1. M and R, Cantil Ranch, well 14. Altitude about 1,980 feet. 14-inch casing 0-500 feet; perforated 248-500 feet.

	Thickness (feet)	Depth (feet)
"Topsoil" and clay	50	50
Sand, red	57	107
Clay, blue	38	145
Sand, blue	80	225
Sand with streaks of clay	115	340
Sand	160	500

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

30S/37E-36G1. M and R, Cantil Ranch, well 7. Altitude is 1,981.0 feet. Drilled by S. F. Caty. 14-inch casing: perforated 12-52, 106-110, 138-144, 171-180, 238-250, 293-309, 418-424, 436-440, 446-450, 457-463, 767-787, 816-824, 832-838, 902-907, 916-919 feet.

Soil	7	7	Clay	6	446
Clay	22	29	Sand	4	450
Clay, dark	11	40	Clay	7	457
Sand and fine gravel	12	52	Gravel	6	463
Clay, soft, and dark	54	106	Clay, yellow	121	584
Sand	4	110	Clay, blue	20	604
Clay, dark	28	138	Clay, red	80	684
Sand	6	144	Clay, dark	24	708
Clay, dark	27	171	Clay, yellow	10	718
Gravel	9	180	Clay, light-colored	8	726
Clay, dark	30	210	Clay, blue	9	735
Clay, yellow	10	220	Clay, yellow	32	767
Clay, dark	10	230	Gravel	20	787
Clay, yellow	8	238	Clay, yellow	29	816
Sand and fine gravel	12	250	Sand and fine gravel	8	824
Clay, soft, and yellow	43	293	Clay, sandy	8	832
Sand and fine gravel	16	309	Gravel	6	838
Clay, black	63	372	Clay, sandy	64	902
Clay, yellow	46	418	Sand and fine gravel	5	907
Sand	6	424	Clay, sandy	9	916
Clay, yellow	12	436	Sand	3	919
Sand	4	440	Clay, sandy	9	928
			Sand and fine gravel	8	936
			Clay, tough	2	938

30S/37E-36K1. M and R, Cantil Ranch, well 15. Altitude about 2,005 feet. 14-inch casing 0-527 feet; perforated 275-527 feet.

"Topsoil" and clay	30	30	Clay	75	225
Sand and clay in streaks of sand	120	150	Sand, red	302	527

30S/37E-36N1. M and R, Cantil Ranch, well 10. Altitude about 2,015 feet. 20-inch casing 0-410 feet, 12-inch casing 410-590 feet; perforated 244-410 and 416-590 feet.

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
"Topsoil" and clay--	60	60	Clay----------	40	320
Sand, red----------	60	120	Sand, red----------	190	510
Clay----------	10	130	Clay, sandy---------	25	535
Sand, coarse, and boulders----------	30	160	Sand----------	45	580
Sand with thin streaks of clay---	120	280	"Granite"----------	10	590

30S/38E-19A1. J. E. Sprott. Altitude about 1,954 feet. Uncased.

Sand----------	72	72
Sand and gravel----------	40	112
Shale, sticky, and blue----------	13	125
Sand with hard streaks----------	31	156
Sand, hard----------	9	165
Shale, sandy----------	30	195
Shale, sandy and blue----------	15	210
Sand with hard streaks----------	50	260
Sand----------	20	280
Sand, hard----------	5	285
Clay, sticky----------	5	290
Sand----------	40	330
Shale, sticky, and blue----------	10	340
Sand and gravel----------	20	360
Sand----------	40	400
Clay with streaks of sand----------	40	440
Sand with streaks of clay----------	10	450
Sand and boulders----------	50	500
Shale, sandy----------	40	540
Sand, hard, with streaks of clay----------	40	580
Sand, hard----------	20	600
Sand, hard, with streaks of gypsum----------	40	640
Sand, hard----------	20	660
Shale, sticky, and blue, with streaks of sand----------	45	705
Shale with streaks of hard sand----------	35	740
Shale, sticky and blue----------	10	750
Sand, hard----------	32	782
Sand and boulders----------	45	827

	Thickness (feet)	Depth (feet)
30S/38E-19A1.--Continued		
Shale, sandy	118	945
Clay, sticky, and blue	10	955
Shale, sandy	30	985
Sand, hard	17	1,002
Shale, sandy, with streaks of blue shale and hard sand	198	1,200
Sand, hard	10	1,210
Clay, blue	2	1,212
Sand, hard	102	1,314
Shale and boulders	12	1,326
Shale, sticky	8	1,334
Sand, hard	10	1,344
Shale, hard, and sandy	75	1,419
Sand, hard	54	1,473
Shale with streaks of hard sand	12	1,485
Sand, hard	30	1,515
Shale with streaks of hard sand	12	1,527
Sand, hard	28	1,555
Shale with streaks of hard sand	5	1,560
Shale, sticky	15	1,575
Sand, hard	155	1,730
Shale, sandy	22	1,752
Shale, sandy, with streaks of hard sand	43	1,795
Sand and sticky shale	13	1,808
Shale, sticky	52	1,860
Shale, sticky, and hard sand with occasional boulders	83	1,943
Shale, sandy, with occasional boulders	70	2,013
Shale, sticky	5	2,018
Shale, sticky, and boulders	15	2,033
Sand, hard	37	2,070
Shales with occasional boulders	190	2,260
Sand, hard	27	2,287
Shale, sticky	38	2,325
Shale, hard	4	2,329
Sand and tough shale	30	2,359
Sand	51	2,410
Shale, sticky, and sand	47	2,457
Shale, tough	23	2,480
Sand, hard	14	2,494
Shale, sticky, with streaks of hard sand	28	2,522
Shale, sticky	28	2,550
Shale, hard, and sandy	22	2,572
Sand, hard	3	2,575
Shale, sandy	2	2,577
Sand, hard	14	2,591

	Thickness (feet)	Depth (feet)
30S/38E-19A1.--Continued		
Shale, tough	9	2,600
Sand, hard	59	2,659
Sand and shale, hard	2	2,661
Sand and shale, tough	20	2,681
Shale and streaks of hard sand	10	2,691
Shale, sandy	25	2,716
Sand	11	2,727
Shale	--	2,727

30S/38E-19F1. Crookshank, well 2. Altitude about 1,970 feet. 18-inch surface casing.

"Alluvium"	80	80
Clay	40	120
Sand	50	170
Clay, blue	50	220
Sand	60	280
Clay, blue	20	300
Gravel	50	350
Clay, blue	15	365
Sand	25	390
Clay, blue	50	440
Sand	25	465
Clay, blue	40	505
Sand, hard	30	535
Shale, hard, and blue	27	562
Sand, hard	35	597
Shale, hard	21	618
Sand, hard	36	654
Shale, hard	25	679
Sand	25	704
Shale, hard	52	756
Sand	28	784
Shale, hard	16	800
Sand	9	809
Shale, hard	12	821
Sand	19	840
Shale	34	874
Sand	25	899
Shale	16	915
Shale, sandy	38	953

	Thickness (feet)	Depth (feet)
30S/38E-19F1.--Continued		
Shale	38	991
Shale, sandy	35	1,026
Sand	46	1,072
Shale	42	1,114
Shale, sandy	50	1,164
Sand	42	1,206
Shale	41	1,247
Sand	53	1,300
Shale, blue	56	1,356
Shale, sandy	47	1,403
Shale, blue	61	1,464
Shale, sticky, and blue	36	1,500
Sand	10	1,510
Shale, sticky, and blue	45	1,555
Shale, sandy	30	1,585
Sand with streaks of shale	120	1,705
Shale, sandy	70	1,775
Shale and sand in streaks	60	1,835
Sand	25	1,860
Shale, sticky and blue	70	1,930
Shale with streaks of sand	35	1,965
Shale	33	1,998
Shale and sand	27	2,025
Sand	5	2,030
Shale, sticky, and blue, and sand	67	2,097
Sand	17	2,114
Shale, blue	96	2,210
Sand	4	2,214
Shale, blue	24	2,238
Sand	27	2,265
Shale, brown	23	2,288
Shale, sandy	27	2,315
Shale, blue	50	2,365
Shale, sticky, and blue	25	2,390
Shale, hard, and sandy	40	2,430
Shale, hard, and blue	30	2,460
Shale, tough and brown	25	2,485
Sand	10	2,495
Shale with streaks of lime	45	2,540
Shale, sticky	30	2,570
Shale, sandy	45	2,615
Sand, faulted	15	2,630
Sand, hard	27	2,657
Silt, blue, and sandstone, faulted	33	2,690

	Thickness (feet)	Depth (feet)
30S/38E-19F1.--Continued		
Shale, blue, and sand, faulted	20	2,710
Shale, hard, and blue, faulted	16	2,726
Shale, blue	49	2,775
Shale, sticky	28	2,803
Silt, blue, and sandstone	37	2,840
Shale, blue	35	2,875
Shale, blue, faulted, dips to 85°	8	2,883

30S/38E-19P1. Crookshank, well 3. Altitude about 1,945 feet. 12-inch casing.

Clay and sand	20	20
Clay	20	40
Sand	30	70
Clay	10	80
Sand	20	100
Clay, blue	10	110
Clay, sandy	30	140
Clay with streaks of sand	120	260
Clay	10	270
Clay, sandy	30	300
Sand and gravel	30	330
Clay	5	335
Sand	45	380
Clay, blue	25	405
Sand with streaks of clay	45	450
Clay, blue, and hard	10	460
Clay, sandy	20	480
Clay, blue, and hard	40	520
Sand and gravel	40	560
Clay, blue, and hard	15	575
Sand	25	600
Shale, sandy	40	640
Shale, sandy, with streaks of sand	210	850
Shale, sticky	20	870
Sand and shale in streaks	30	900
Sand, hard	50	950
Shale, hard, and blue	10	960
Shale, hard, and sandy	25	985
Sand	55	1,040
Shale, sandy	60	1,100

	Thickness (feet)	Depth (feet)
30S/38E-19P1.--Continued		
Shale	5	1,105
Shale, sandy	30	1,135
Sand	15	1,150
Shale, sandy	25	1,175
Shale	10	1,185
Sand, hard	20	1,205
Shale, sandy	65	1,270
Shale	15	1,285
Sand, hard	10	1,295
Shale	13	1,308
Sand	48	1,356
Shale	9	1,365
Sand	15	1,380
Shale, hard	20	1,400
Shale, sandy	70	1,470
Shale	25	1,495
Sand, hard	25	1,520
Shale, sandy	10	1,530
Sand	30	1,560
Shale, hard	45	1,605
Sand	65	1,670
Shale, sandy	137	1,807
Shale	13	1,820
Sand	22	1,842
Shale	8	1,850
Sand, hard	10	1,860
Shale, sandy	30	1,890
Shale	18	1,908
Sand	2	1,910
Shale with streaks of sand	80	1,990
Sand	20	2,010
Shale	10	2,020
Sand	10	2,030
Shale	20	2,050
Sand	20	2,070
Shale	15	2,085
Shale, sandy	10	2,095
Sand, hard	17	2,112
Shale	33	2,145
Sand	20	2,165
Shale, sandy	65	2,230
Sand with streaks of shale	60	2,290
Shale	10	2,300
Shale, sandy	40	2,340
Sand, hard	45	2,385
Sand	28	2,413

	Thickness (feet)	Depth (feet)
30S/38E-19P1.--Continued		
Shale, sandy	77	2,490
Shale	10	2,500
Sand with streaks of shale	60	2,560
Shale	15	2,575
Sand, hard	15	2,590
Shale, hard	15	2,605
Sand with streaks of shale	95	2,700
Shale, hard	26	2,726
Sand, loose, and gray	9	2,735
Sand, hard, and shale	3	2,738
Sand, hard	12	2,750
Shale, sandy	30	2,780
Shale, hard	27	2,807
Sand, hard	13	2,820
Shale, hard, with streaks of sand	66	2,886
Sand, hard	34	2,920
Shale, hard	30	2,950
Sand, hard	20	2,970
Shale, hard	40	3,010
Sand, hard	10	3,020
Shale, hard	7	3,027
Sand, hard	13	3,040
Shale, hard	20	3,060
Sand, hard	10	3,070
Shale	20	3,090

30S/38E-19P2. J. E. Sprott. Altitude about 1,945 feet. 18-inch casing.

"Soil"	30	30
Sand and gravel with streaks of clay	345	375
Shale and boulders	30	405
Shale, tough, with streaks of sand	70	475
Shale and sand, tough	25	500
Sand and boulders	90	590
Sand and gravel	15	605
Clay and boulders	25	630
Clay and gravel	58	688
Sand and gravel	20	708
Clay and gravel	102	810
Clay and boulders	10	820
Boulders	5	825
Boulders and clay, tough	12	837

	Thickness (feet)	Depth (feet)
30S/38E-19P2.--Continued		
Clay and boulders	98	935
Sand, hard	20	955
Sand and gravel, hard	110	1,065
Sand, hard	10	1,075
Gravel	45	1,120
Sand, loose	5	1,125
Sand and gravel, hard	15	1,140
Sand, hard	5	1,145
Gravel	45	1,190
Shale, tough	10	1,200
Shale, sticky	10	1,210
Clay with streaks of sand	35	1,245
Sand and boulders, hard	5	1,250
Sand and gravel	42	1,292
Sand and gravel, hard	16	1,308
Sand, sticky	4	1,312
Sand	2	1,314
Shale, sandy	15	1,329
Shale, tough	23	1,352
Sand, hard	4	1,356
Shale, sticky and black	14	1,370
Sand, hard	5	1,375
Shale with streaks of sand	8	1,383
Shale	67	1,450
Shale, sticky, and blue	40	1,490
Shale, sticky	10	1,500
Sand	10	1,510
Shale, sticky	10	1,520
Shale, sticky, and blue	35	1,555
Shale and sand	25	1,580
Sand with streaks of shale	120	1,700
Shale, sandy	75	1,775
Sand with streaks of shale	80	1,855
Shale, sticky, and blue	75	1,930
Shale with streaks of sand	15	1,945
Shale	50	1,995
Shale and sand	30	2,025
Sand	2	2,027
Sand, sticky, and blue, with streaks of sand	63	2,090
Shale, sticky	10	2,100
Sand	14	2,114
Shale	68	2,182
Shale, hard, and blue	28	2,210
Sand	3	2,213

	Thickness (feet)	Depth (feet)
30S/38E-19P2.--Continued		
Shale	25	2,238
Shale, blue	32	2,270
Shale, brown	11	2,281
Shale, sandy, and tough	29	2,310
Shale, sandy	30	2,340
Shale, blue	25	2,365
Shale, sticky, and blue	20	2,385
Shale, hard, and sandy	5	2,390
Shale, sticky	39	2,429
Shale, sticky, and blue	10	2,439
Shale, hard, and blue	25	2,464
Shale, tough, and brown	26	2,490
Sand, hard	5	2,495
Shale, sticky, with streaks of lime	20	2,515
Shale, brown, with streaks of lime	25	2,540
Shale, brown, and sticky	5	2,545
Shale, sandy, and boulders	75	2,620
Sand	5	2,625
Shale, sticky	30	2,655
Sand and gravel, hard	2	2,657
Shale, sticky, and blue	13	2,670
Shale, sticky, with sand and gravel	30	2,700
Shale, sandy	15	2,715
Shale, blue	5	2,720
Shale, sandy	31	2,751
Shale, sandy, with streaks of hard sand	6	2,757
Shale, blue, and lime	4	2,761
Shale	9	2,770
"Hard"	1	2,771
Shale, sticky	49	2,820
Sand	23	2,843
Sand and boulders	20	2,863
Shale, blue and sandy	5	2,868
Sand	30	2,898
Shale, sticky, and blue	3	2,901
Shale, tough, sticky, and blue	36	2,937
Shale, sticky, and blue	16	2,953
Sand	6	2,959
Shale, sandy, and boulders	9	2,968
Shale, sandy	124	3,092
Shale, sticky	15	3,107
Shale, sandy, with streaks of hard sand	35	3,142
Shale, sticky	14	3,156
Shale, sandy, with streaks of hard sand	34	3,190

	Thickness (feet)	Depth (feet)
30S/38E-19P2.--Continued		
Shale, sandy	10	3,200
Shale, sticky, and blue	5	3,205
Shale, hard, and sandy	5	3,210
Shale, sandy	4	3,214
Sand, hard	10	3,224
Shale, sticky, and blue	12	3,236
Sand	1	3,237
Shale, sandy	10	3,247
Shale, tough, and sticky	10	3,257
Shale, sticky	19	3,276
Sand, coarse	7	3,283
Shale, hard, and sandy	10	3,293
Shale, sticky	20	3,313
Shale, sandy, with streaks of hard sand	64	3,377
Shale, sandy	10	3,387
Shale, blue, and sticky	10	3,397
Shale, sandy	6	3,403
Shale, sandy, and hard sand	23	3,426
Shale, sticky, and blue	16	3,442
Shale, tough, and sticky	65	3,507
Shale, sandy	12	3,519
Shale, tough, and sticky	11	3,530
Shale, sandy	8	3,538
Shale, sticky, and blue	17	3,555
Sand, hard	2	3,557
Shale, sticky	21	3,578
Shale, tough, and sticky	62	3,640
Sand	2	3,642
Shale, tough, and sticky	31	3,673
Sand, hard	2	3,675
Shale with streaks of sand	25	3,700
No record	9	3,709
Shale, sticky	15	3,724
Sand	3	3,727
Sand and shale	9	3,736
Shale, sticky, and blue	10	3,746
Shale, sandy	4	3,750
Sand, and hard shale	15	3,765
Shale, sandy, with streaks of shale	15	3,780
Shale, sandy, and brown	17	3,797
Shale, sandy, and brown, with streaks of sand	11	3,808
Shale, brown	8	3,816
Shale, sandy, with shells	3	3,819
Shale, brown, with streaks of hard sand	18	3,837
Shale, brown	10	3,847

	Thickness (feet)	Depth (feet)
30S/38E-19P2.--Continued		
Shale, sticky	5	3,852
Shale, sandy, and tough	13	3,865
Shale, sandy	10	3,875
Sand	4	3,879
Shale, sandy	7	3,886
Shale, sticky	23	3,909
Shale, tough, and sticky	4	3,913
No record	4	3,917
Shale, blue	18	3,935
Sand, hard	1	3,936
Shale, blue	2	3,938
Shale, sticky	8	3,946
Shale, blue	5	3,951
Shale, sticky	10	3,961
Shale and lime	25	3,986
Shale, sticky	4	3,990
Shale, blue	32	4,022
Shale, tough, and sticky	3	4,025
Shale, sticky	20	4,045
Shale, brown, and sandy	15	4,060
Shale, brown, sandy, and sticky	5	4,065
Sand, hard	5	4,070
Shale, hard, brown, and sandy	10	4,080
Shale, hard, and brown	14	4,094
Shale, sticky	4	4,098
Shale, hard, and sandy	6	4,104
Shale, brown, and lime	7	4,111
Sand, hard, and lime	4	4,115
Shale, hard, and brown	20	4,135
Shale, hard, and brown, and lime	15	4,150
Shale, sticky, and brown	9	4,159
Shale, sticky	2	4,161
Shale, sticky, and blue	7	4,168
Shale, sandy	18	4,186
Shale, sticky	11	4,197
Shale, sticky, and blue	3	4,200
Shale, sticky	6	4,206
Shale, brown	5	4,211
Shale, sticky	13	4,224
Shale, sticky, and blue, and lime	5	4,229
Shale, tough, and blue, and lime	18	4,247
Shale, sticky, and lime	8	4,255
Shale, blue, and lime	75	4,330
Shale, brown	12	4,342

	Thickness (feet)	Depth (feet)
30S/38E-19P2.--Continued		
Shale, blue, and lime	42	4,384
"Lime rock"	1	4,385
Rock and lime shell	6	4,391
Shale, blue, and lime	51	4,442
Shale, sticky, with some lime	5	4,447
Shale, brown, and sandy, and lime	18	4,465
Shale, brown, and lime	9	4,474
Shale and lime	9	4,483
Shale, blue, with lime	189	4,672
Shale, brown, and lime	28	4,700
Shale, sticky, and blue, and lime	7	4,707
Shale, blue, and lime	20	4,727
Shale, sticky, and brown, with some lime	1	4,728
Shale, brown, and lime	60	4,788
Shale, blue, and lime	82	4,870
Shale, dark, and lime	10	4,880
Shale, dark, with some sand	8	4,888
Shale, blue, with some sand	12	4,900
Shale, sticky, and brown, with some sand	7	4,907
Shale, brown, and sandy	2	4,909
Shale, sticky, and brown	5	4,914
Shale, sticky, and brown, and lime	10	4,924
Shale, dark, with some lime	4	4,928
Shale, blue, and lime	7	4,935
Shale, dark, with small amount of lime	22	4,957
Shale and lime	6	4,963
Shale, sticky, and lime	10	4,973
Shale, brown, and lime	13	4,986
Shale, sticky, and brown, with some lime	8	4,994
Shale, dark	9	5,003
Shale, blue, slightly sandy	7	5,010
Sand, hard, and dry	5	5,015
Shale, brown	3	5,018
Shale, brown, with some lime	5	5,023
Shale, brown, and lime	7	5,030
Shale, brown, with streaks of sand	8	5,038
Shale, brown, with some sand and lime	6	5,044
Shale, brown, and lime	21	5,065

	Thickness (feet)	Depth (feet)

30S/38E-30P1. M and R, Cantil Ranch, well 1. Altitude about 1,957 feet. 20-inch casing 0-150 feet, 12-inch casing 150-643 feet; perforated 130-150 and 153-643 feet.

"Topsoil"	15	15
Sand	165	180
Sand, coarse	85	265
Clay, brown	25	290
Clay, dark blue	95	385
Clay	20	405
Sand	48	453
Clay	20	473
Clay, sandy	24	497
Sand, coarse	80	577
Clay	27	604
Sand	17	621
Clay	22	643

30S/38E-31F1. M and R, Cantil Ranch, well 3. Altitude about 1,980 feet. 16-inch casing 0-196 feet, 12-inch casing 196-658 feet; perforated 118-196 and 202-658 feet.

Sand	15	15
Sand, coarse	35	50
Clay	110	160
Sand	30	190
Gravel, coarse	40	230
Clay, sandy	30	260
Clay	30	290
Sand	123	413
Sand, coarse	23	436
Clay	44	480
Clay, sandy	30	510
Sand with streaks of coarse gravel	98	608
Clay	19	627
Sand	21	648
Clay	10	658

30S/38E-31G1. M and R, Cantil Ranch, well 2. Altitude about 1,980 feet. 20-inch casing 0-156 feet, 12-inch casing 156-656 feet; perforated 120-656 feet.

Sand	45	45
Clay	65	110
Clay with streaks of coarse sand	55	165
Gravel	52	217
Rock, hard	6	223
Sand, coarse	25	248
Clay	12	260
Clay, sandy	125	385
Clay, sandy, with streaks of hard sand	95	480
Sand, coarse	60	540
Sand and streaks of clay	40	580
Sand	10	590
Clay, yellow	15	605
Sand, coarse	47	652
Clay	4	656

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

30S/38E-32G1. M and R, Cantil Ranch, well 8. Altitude is 1,949.0 feet. 20-inch casing 0-408 feet, 12-inch casing 408-852 feet; perforated 120-408 and 414-852 feet; uncased hole 852-863 feet.

"Topsoil" and clay--	50	50	Clay, yellow--------	70	480
Sand, red, with streaks of clay---	110	160	Sand, red----------	129	609
Clay, blue----------	30	190	Clay, yellow--------	121	730
Sand, blue-gray, with streaks of clay----------	220	410	Clay, yellow, and sandy----------	82	812
			Sand, coarse--------	35	847
			Sand, hard----------	16	863

30S/39E-3C1. James Stockton. Altitude about 2,160 feet. Drilled by D. W. Slocum. 14-inch casing 0-600 feet, perforated 234-600 feet; uncased hole 600-610 feet.

"Soil," sandy-------	3	3	Clay, sandy, and rocks----------	18	190
Sand, rock, and gravel----------	17	20	Sand, coarse, and rocks----------	8	198
Sand, coarse--------	15	35	Clay, sandy, and rocks----------	12	210
Clay, yellow, and sandy----------	5	40	Sand, coarse, and gravel----------	6	216
Sand, coarse, and rock----------	20	60	Clay, sandy, and rocks----------	14	230
Clay, yellow, and sandy----------	4	64	Sand, coarse, and gravel----------	8	238
Sand, coarse, and gravel----------	17	81	Clay, sandy, and gravel----------	12	250
Clay, yellow, and sandy----------	11	92	Sand, coarse--------	5	255
Sand, coarse, and rocks----------	22	114	Clay, yellow--------	10	265
Clay, sandy, and rocks----------	22	136	Sand, coarse--------	5	270
Sand, coarse, and gravel----------	5	141	Clay, yellow--------	12	282
Clay, sandy, and rocks----------	24	165	Sand, coarse--------	6	288
Sand, coarse, and gravel----------	7	172	Clay, yellow--------	13	301
			Sand, coarse--------	6	307
			Clay, yellow--------	5	312
			Sand, coarse, and rocks----------	6	318

	Thickness (feet)	Depth (feet)
30S/39E-3C1.--Continued		
Clay, yellow--------	12	330
Sand, coarse, and rock----------	5	335
Clay, yellow--------	15	350
Sand, coarse--------	8	358
Clay, yellow, and sandy---------	4	362
Sand, coarse--------	6	368
Clay, yellow, and sandy---------	10	378
Sand, coarse--------	7	385
Clay, yellow, and sandy----------	17	402
Sand, coarse--------	8	410
Clay, yellow--------	16	426
Sand, coarse--------	7	433
Clay, yellow--------	13	446
Sand, coarse--------	6	452
Clay, yellow--------	8	460
Sand, coarse--------	8	468
Clay, yellow--------	7	475
Sand, coarse, and gravel--------	9	484
Clay, yellow, and sandy---------	14	498
Sand, coarse--------	7	505
Clay, yellow, and sandy---------	15	520
Sand, coarse--------	8	528
Clay, yellow--------	12	540
Sand, coarse--------	6	546
Clay, yellow--------	12	558
Sand, coarse--------	6	564
Clay, yellow--------	17	581
Sand, coarse--------	8	589
Clay, yellow, and sandy----------	5	594
Sand, coarse--------	4	598
Clay, yellow, and sandy---------	6	604
Sand, coarse--------	6	610

31S/37E-1H1. M and R, Cantil Ranch, well 16. Altitude about 2,019 feet. 14-inch casing 0-504 feet; perforated 252-504 feet.

"Topsoil" and clay--	30	30
Sand, red----------	60	90
Clay, yellow--------	40	130
Clay, blue----------	10	140
Sand, coarse, with streaks of clay---	180	320
Sand, coarse--------	90	410
Clay----------	20	430
Sand----------	74	504

31S/37E-1R1. M and R, Cantil Ranch, well 11. Altitude about 2,055 feet. 20-inch casing 0-402 feet, 12-inch casing 402-468 feet; perforated 240-402 and 408-468 feet.

"Topsoil" and clay--	60	60
Sand, red----------	110	170
Clay, sandy---------	60	230
Sand, red----------	155	385
Sand and clay, blue-	60	445
"Granite," hard-----	23	468

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

31S/37E-2P1. M and R, Cantil Ranch well 6. Altitude about 2,065 feet. 18-inch casing 0-324 feet; reducer 324-330 feet; 12-inch casing 330-380 feet; perforated 120-324 and 330-380 feet.

"Topsoil" and sand--	10	10	Clay----------	14	193
Sand, fine and dry--	10	20	Gravel----------	5	198
Gravel----------	5	25	Clay, sandy---------	27	225
Clay----------	85	110	Sand----------	51	276
Clay with streaks of sand and gravel----------	69	179	Sand and gravel-----	65	341
			"Granite"----------	39	380

31S/37E-22J1. Cinco, well 1. Altitude about 2,235 feet. 10-inch surface casing.

Sand, coarse--------	40	40	Sand, hard and brown----------	28	783
Shale, sandy, and sand----------	98	138	Sandstone, hard-----	36	819
Shale, sticky, and sand----------	34	172	Shale, gray, and hard sand---------	23	842
Sand, fine, and hard----------	35	207	Clay and hard sandstone---------	156	998
Shale, sandy, and "bentonite"-------	5	212	Shale, sandy--------	63	1,061
Sand, gray----------	58	270	Shale, sandy with pebbles------	27	1,088
"Bentonite"---------	10	280	Shale, sandy, with streaks of blue shale----------	32	1,120
Sand, hard----------	8	288	Sandstone, hard-----	71	1,191
Sand, hard, streaks of "bentonite"----	49	337	Sandstone with lime-	200	1,391
Clay, brown, and sticky----------	54	391	Sandstone, limy-----	72	1,463
Clay, sandy---------	56	447	Lime and sandstone--	101	1,564
Sand, brown---------	67	514	Shale, limy, and gray----------	103	1,667
Sandstone, hard-----	89	603	Sandstone, limy, and gray shale----	51	1,718
Sand, hard, and gray shale--------	60	663			
Shale, hard---------	58	721			
Sandstone and shale gray----------	34	755			

	Thickness (feet)	Depth (feet)

31S/37E-22R1. Hix, well 1. Altitude about 2,240 feet. Drilled by Cinco Development Co. 12-inch surface casing.

Clay, red, and gravel	40	40
Sand, coarse, with shale and clay	160	200
Shale and lime	100	300
Sand and gravel	50	350
Chert, coarse, and sand	200	550
Lime, shale, and silt	30	580
Lime, shale, and chert in layers	120	700
Sand, chert, shale, and gravel	40	740
Chert, lime, and shale	95	835
Lime, hard, and gray, sand and chert	65	900
Shale, hard, lime, and sand	175	1,075
Shale and hard lime	55	1,130
Shale, lime, and small round boulders, hard	310	1,440

31S/38E-22H1. Fremont Oil Syndicate, well 1, oil test. Altitude about 2,660 feet. Drilled by Fremont Oil Corp. 8-inch surface casing.

"Sedimentary"	139	139
Gravel, coarse, and sandy	102	241
Boulders	11	252
Shale, light brown	62	314
Shale, sticky, and blue	18	332
Shale, sandy	86	418
Shale, sticky	30	448
Sand	2	450
Clay, blue	12	462
Lime	8	470
"Decomposed granite"	24	494
Lime	20	514
Shale, blue	12	526
Conglomerate	46	572
Shale, blue	24	596
Conglomerate	54	650
Shale, blue	28	678
Sand, hard	4	682
No record	209	891
"Gumbo"	10	901
Shale, blue	101	1,002
Sand, hard, and cemented	47	1,049
Shale, sticky, and blue	19	1,068

	Thickness (feet)	Depth (feet)
31S/38E-22H1.--Continued		
Sand, hard	34	1,102
Sand and rock, hard	19	1,121
Gravel	6	1,127
Shale, gray	28	1,155
Lime rock, hard	13	1,168
Shale, dark, and sticky	24	1,192
Sand and gravel, hard, and cemented	26	1,218
Shale, blue	17	1,235
Shell, hard	8	1,243
Shale, sandy, and gray, (very hard)	22	1,265
Shell, hard, with streaks of shale	28	1,293
Gypsum rock	5	1,298
Sand, rock, and strata of dark-blue shale, hard	20	1,318
Shale, sandy, and gray	100	1,418
Sand and rock, very hard	1	1,419
Conglomerate	21	1,440

31S/38E-22H2. Fremont Oil Syndicate, well 2, oil test. Altitude about 2,655 feet. Drilled by Fremont Oil Corp. 5-inch surface casing.

"Sedimentary"	5	5
"Sedimentary" with streak of quartz	5	10
"Rotten" quartz	7	17
"Sedimentary"	128	145
Sand and gravel	39	184
Sand and gravel, yellow	11	195
Gravel, coarse	10	205
Sand and gravel	7	212
Quartz	3	215
Sand, gravel and quartz	10	225
Gravel and sand, yellow	11	236
Gravel, yellow	14	250
Sand and gravel, yellow	2	252
Quartz	4	256
Clay, sand, and gravel, yellow	19	275
Clay and gravel, yellow	20	295
Sand, yellow	5	300
Sand, fine	5	305
Sand and gravel, yellow	10	315
Clay and gravel, yellow	22	337
Clay, light-yellow, and sandy	33	370

	Thickness (feet)	Depth (feet)
31S/38E-22H2.--Continued		
Quartz	25	395
Clay, sand, and gravel	15	410
Clay, sticky, and white	5	415
Lime, clay, sand, and gravel	37	452
Sand, very light	2	454
Lime and clay, sandy	75	529
Boulders	53	582
Sand and gravel	84	666
Quartz	36	702
Clay, white, or "bentonite"	5	707
Gravel	13	720
Clay and gravel	36	756
Gravel	4	760
Quartz	45	805
Sand, sharp	22	827
Quartz	88	915
Sand, hard	75	990
Quartz	25	1,015
Shale, gray	39	1,054
Shale, sandy, and gray	34	1,088
Quartz	20	1,108
Shale, sandy, and gray	27	1,135
Shells	7	1,142
Shale, sticky, and blue	20	1,162
Shale, sandy, and gray	14	1,176
Quartz	6	1,182
Shells	2	1,184
Shale, sandy, and gray	100	1,284
Clay, blue	22	1,306
Shale, sandy, and gray	27	1,333
Shell, hard	12	1,345
Shale, sandy, and gray	115	1,460
Shell	5	1,465
Shale, sandy, and gray	76	1,541
Clay, blue	71	1,612
Shale, blue, and sandy	43	1,655
Shale, sandy, and gray	213	1,868
Shell, hard	5	1,873
Shale, sandy, and gray	212	2,085
Shell, hard	5	2,090
Shale, sandy, and gray	51	2,141
Shell, hard	3	2,144
Shale, gray, with rotten smell	29	2,173
Shell, very hard	4	2,177

	Thickness (feet)	Depth (feet)
31S/38E-22H2.--Continued		
Shale, gray	25	2,202
Shell, hard	2	2,204
Shale, sandy, and gray, some very sticky	17	2,221
Shell	3	2,224
Shale, gray, and sandy	73	2,297
Shale, sandy	3	2,300
Shell, hard	5	2,305
Shale, gray	27	2,332
Shale, gray, and sandy	18	2,350
Shale, gray	9	2,359
Shale, gray, and sandy	86	2,445
Clay, sandy, and blue	30	2,475
Shale, sandy, and blue	10	2,485
Shale, gray, and sandy	13	2,498
Shell, hard	5	2,503
Shale, gray, and sandy	25	2,528
Shell, hard	5	2,533
Shale, gray, and sandy	15	2,548
Shell, hard	7	2,555
Shale, gray	15	2,570
Shell, hard	2	2,572
Shale, gray, and sandy	26	2,598
Shale, gray	22	2,620

32S/36E-22B1. Oliver Pesch. Altitude about 2,710 feet. Drilled by W. H. Colquitt. 6-inch casing 0-713 feet, uncased hole 713-829 feet.

No record	--	535
Clay, yellow, and loose gravel, in streaks	70	605
Sand, clean, and coarse	95	700
No record	--	829

32S/37E-9Z1. M and R, Conklin Ranch, (Childs Wall, well 1). Altitude about 2,445 feet. Casing record not available.

	Thickness (feet)	Depth (feet)
Sand and clay-------	202	202
Clay----------	3	205
Sand----------	5	210
Clay, sandy, and boulders----------	90	300
Clay----------	20	320
Sand----------	10	330
Clay, sandy---------	15	345
Sand with streak of clay----------	65	410
Shell, hard---------	10	420
Sand----------	30	450
Clay, hard----------	40	490
Sand, hard, with streak of hard shale----------	180	670
Shale, hard---------	40	710
Sand, hard----------	8	718
Shale, hard---------	12	730
Sand with streak of hard shale-----	70	800
Shale, hard---------	60	860
Sand, hard----------	15	875
Shale, hard, and sandy----------	135	1,010
Sand, hard, and cemented----------	190	1,200
Shale, sandy--------	50	1,250
Sand----------	25	1,275
Shale, sandy--------	35	1,310
Sand and boulders---	70	1,380
Sand, hard----------	20	1,400
Shale, sandy--------	75	1,475
Shale, cemented, and sandy---------	35	1,510
Shale, hard---------	52	1,562
Sand, hard----------	52	1,614
Shale, hard---------	67	1,681
Shale, hard, and sandy----------	22	1,703
Sand, hard----------	33	1,736
Sand, hard, with streaks of shale--	69	1,805
Shale, hard, and sandy----------	46	1,851
Sand, cemented------	89	1,940
Shale, hard, and sandy----------	35	1,975
Shale, hard---------	17	1,992
Sand, hard----------	22	2,014
Shale, hard, and sandy----------	29	2,043
Shale, hard---------	30	2,073
Sand, hard----------	29	2,102
Shale, hard, and sandy----------	85	2,187
Sand and boulders, hard----------	17	2,204
Shale, hard---------	28	2,232

	Thickness (feet)	Depth (feet)
32S/37E-16R1. M and R, Conklin Ranch, well 14. Altitude about 2,440 feet. Drilled by Jess Goforth. 16-inch casing.		
No record	--	205
Sand, large- to medium-grained	30	235
Sand and clay in streaks	20	255
Gravel	60	315
Boulder conglomerate	5	320
Sand, dense, fine-grain, and varicolored	20	340
Clay and fine unconsolidated varicolored sand, in streaks	40	380
Clay	15	395
Sand, medium- to fine-grained	35	430
Gravel and sand in streaks	30	460
Sand, medium- to fine-grained, varicolored, with small streaks of gravel	45	505
Gravel and small rocks, in streaks	40	545
Sand, medium- to very fine-grained	40	585
Clay and sand	30	615
Sand	30	645
Clay and a medium sand, in streaks	41	686
32S/37E-26M1. M and R, Conklin Ranch, well 15. Altitude about 2,420 feet. Drilled by Jess Goforth. 16-inch casing.		
No record	--	215
Sand, medium- to fine-grained, varicolored, and very sharp	15	230
Gravel, coarse	10	240
Sand, medium- to small-grain, varicolored, and rounded	25	265
Clay and sand, alternate streaks	25	290
Gravel and small boulders with streaks of clay	25	315
Sand, medium- to fine-grain	50	365
Sand, medium- to fine-grain, with streaks of clay	25	390
As above, with more clay streaks	7	397
Clay streaked with small amount of sand	33	430
Boulders, small	10	440
Sand, medium- to fine-grain, alternating with small gravel	20	460

	Thickness (feet)	Depth (feet)
32S/37E-26M1.--Continued		
Sand, medium- to fine-grain, varicolored, well rounded, and mainly clear and black minerals	75	535
Sand and gravel, well-cemented, and very hard	15	550
Sand, large to medium, rounded, varicolored	10	560
Gravel, small, and large-grained sand	38	598

32S/39E-4L1. J. E. Johnson Co. Altitude about 2,725 feet. 10-inch surface casing.

Sand and hard shells	261	261
Sand with hard streaks	77	338
Clay, sandy, with streaks of gravel	250	588
Shale, sandy	178	766
Shale, hard, and blue	67	833
Shale, sticky	55	888
Shale, sandy	132	1,020
Sand and shale	101	1,121
Shale, sandy, with streaks of gravel	63	1,184
Sand and boulders, tight	190	1,374
Sand, hard	23	1,397
"Decomposed granite," cemented	1	1,398
"Decomposed granite" and shale	107	1,505
Sand, hard	79	1,584
"Decomposed granite," cemented	32	1,616
Sand, tight, and coarse	10	1,626
"Decomposed lime" and "granite"	82	1,708
Sand, hard	286	1,994
"Decomposed lime" and "granite"	123	2,117
Sand, hard	158	2,275
Shale, sandy	48	2,323
Sand, hard	33	2,356
Shale, sandy, with streaks of hard sand	26	2,382
"Decomposed lime" and "granite"	10	2,392

	Thickness (feet)	Depth (feet)

32S/40E-31B1. U.S. Borax and Chemical Corp., well 22. Altitude about 2,530 feet. Drilled by owner. Uncased hole 0-290 feet.

Sand, clay, and gravel, hard, moderately well cemented--	160	160
Sand and gravel with thin zones of brown clay----------	15	175
Sand, clay, and gravel; well mixed, brown, hard---------	60	235
Clay, brown, hard, sandy, streaks of coarse gravel at 260 feet----------	30	265
Sand, clay, gravel, hard----------	25	290

32S/40E-31F1. U.S. Borax and Chemical Corp., well 23. Altitude about 2,520 feet. Drilled by owner. Uncased hole 0-500 feet.

Sand, clay, and gravel; sand granitic, clay brown, well mixed, compact, hard----------	170	170
Sand and gravel----------	5	175
Sand, clay, and gravel; brown, well mixed, hard, compact----------	95	270
Sand and gravel; some streaks of brown clay, gravel increasing with depth----------	22	292
Sand, clay, and gravel, brown, well mixed----------	138	430
Sand, very coarse, poorly sorted, few pebbles and boulders----------	10	440
Clay, sandy, gray----------	3	443
Gravel, coarse, waterworn, some basalt pebbles, thin streaks of clay and sand----------	4	447
Clay, sandy, gray----------	13	460
Sand and gravel, very coarse, poorly sorted, basalt and granitic boulders----------	16	476
Clay, blue-gray, sandy with occasional gravel streaks---	24	500

TABLE 4.--*Chemical analyses of water*

Values for sodium preceded by the letter a indicate a combination of sodium and potassium; values for silica preceded by the letter b indicate a combination of silicon, iron, and aluminum oxides.

Analyzing laboratory: DWR, State of California, Department of Water Resources; GP, U.S. Geological Survey, Geochemistry and Petrology Branch; GW, U.S. Geological Survey, Ground Water Branch; H, Hornkohl Laboratories, Inc.; PJB, Pomeroy, Johnson, and Bailey; QW, U.S. Geological Survey, Quality of Water Branch; SE, Smith-Emery Co. For analyses for which the analyzing laboratory is not given, the person from whom the analysis was collected is given; DGT, Thompson (1929); SP, Southern Pacific Co.

Well number	Date of collection	Depth of well (feet)	Water temperature (°C)	Results in milligrams per liter (mg/l)																				Analyzing laboratory and sample number
				Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Dissolved solids: Calculated (Sum of determined constituents)	Dissolved solids: Residue on evaporation at 180°C	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$	Percent sodium	Specific conductance (micromhos at 25°C)	pH	
U S Public Health Service drinking water standards (1962)					0.3							250	250	0.9	45		500	500						
10N/7W-[illegible]D1				44		48	7.0	330	6.0	162	17	271	302	0.8	[illegible]	2.2	1,110		149		82	1,810	8.4	
6B2	6- 9-56					55	9.7	356	6.1	185	0	293	351	.9	19	2.7	1,180	1,220	177		81	2,060	7.8	DWR-V373
11N/7W-4A1	4- -59		20	42	1.6	44	5.6	197	4.8	115	0	162	210	.5	1.1	1.1	727	725	233		76	1,200	8.1	
11N/7W-3[illegible]G1	4-2 -53			15		49	11	215	6.0	192		223	180	1.6	[illegible]	1.3	802	840	168		72	1,190	7.8	GP
	9-17-55			18		71	16	251	5.9	189	0	279	235	1.0	14	1.3	985	973	243	85	68	1,630	7.6	DWR-13
	9-17- [illegible]									185	[illegible]		236						26	110		1,660	7.7	DWR-V37[illegible]
	9- -5[illegible]			5		90	24	276	8	183	0	352	267	.7	9	.90	1,150	1,300	324		64	2,[illegible]0	7.7	DWR-T2499
	8- 1-6			34		83	19	255	6.6	177	0	341	238	1.3	14	1.0	1,080	1,070	286	140	65	1,680	7.9	DWR-R3486
	11E -17-5[illegible]					67	11	39	[illegible].7	212	0	316	316	.9	22	2.6	1,180	1,240	213		77	2,[illegible]00	7.[illegible]	DWR-V37[illegible]
	10E1 6-11-[illegible]			71	Trace	75	19	[illegible]5		230	0	345	350				1,[illegible]30		259		75			SE
	6K1 [illegible]- 9-57				.1	[illegible]3	4.[illegible]	360		168	16	310	[illegible]72		1[illegible]		1,[illegible]90	1,100	90		9[illegible]	1,66[illegible]	[illegible].3	E
	6M1 11-[illegible]- [illegible]				.1	63	11	[illegible]0		[illegible]07	[illegible]	346	[illegible]16		[illegible]0		1,210	1,220	[illegible]33		79	1,56[illegible]	7.4	H-[illegible]8527
	32N1 11- [illegible]- 1												195						145			1,590		GW
	4- -[illegible]		.1	[illegible]4	[illegible]	[illegible]9	7.7	304	[illegible]0	267	[illegible]	268	191	.8	27	1.5	[illegible]96	1,000	126		84	1,590	8.0	GP
	[illegible]N1 4-2[illegible]- 3			58		54	[illegible]8	[illegible]0	[illegible]9	235		[illegible]56	[illegible]31	1.2	[illegible]0	2.7	1,[illegible]4	1,060	167		77	1,530	7.7	GP
	3[illegible]N3 4- 9- 1			36		60	[illegible].[illegible]	343		201	[illegible]0	[illegible]90	323	.6	13	[illegible].3	1,180	1,240	1[illegible]2		77	1,910	7.9	SE
	[illegible]-17- [illegible]			4[illegible]		64	13	363	5.5	212	[illegible]0	[illegible]38	330	.8	22	2.8	1,300	1,310	226	[illegible]3		2,100	7.9	DWR-V135
	5-17-[illegible]									214	[illegible]		326						[illegible]27	[illegible]5		2,08[illegible]	[illegible].0	DWR-V376
	9- 3-[illegible]			46		61	18	343	5.3	209	[illegible]0	239	373	.8	[illegible]4	[illegible].[illegible]	1,[illegible]60	1,360	[illegible]46	[illegible]5	76	[illegible],[illegible]40	7.9	DWR-T2[illegible]0
	32N4 6- [illegible]- 3					46	11	[illegible]99	7.0	239	[illegible]0	[illegible]62	218	.5	[illegible]5	1.9	984	1,060	160		7[illegible]	1,600	7.8	DWR-P676
	9-17-56					53	9.1	314	[illegible].[illegible]	221	[illegible]	276	266	.7	2[illegible]	2.3	1,[illegible]60	1,1[illegible]0	17		79	1,7[illegible]0	7.[illegible]	DWR-V377
	[illegible]- 3-[illegible]			61		54	10	309	.3	220	[illegible]	273	255	1.1	17	2.0	1,090	1,070	176	[illegible]0	79	1,710	7.5	DWR-R3488
11N/[illegible]W-[illegible]N1	4- [illegible]		2[illegible]	7[illegible]	.06	3[illegible]	8.5	145	6.4	201	[illegible]	[illegible]87	83	.9	[illegible]4	.6[illegible]	[illegible]36	[illegible]36	110		7[illegible]	[illegible]805	[illegible].[illegible]	QW-[illegible]2[illegible]
	[illegible]-1- [illegible]		[illegible]	[illegible]		[illegible]	[illegible]0	128	.8	168	[illegible]3	[illegible]5	89	.9	[illegible]8	.[illegible]4	471	543	112		71	[illegible]43	7.8	DWR-R711
	[illegible]-14-[illegible]		[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	108	0		[illegible]	8.0	DWR-V358
	[illegible]- 2-[illegible]			[illegible]4		26	1[illegible]	131	.7	[illegible]09	[illegible]	83	92	.4	14	.[illegible]4	[illegible]16	601	118		71	909	7.9	DWR-T[illegible]4[illegible]
	[illegible]- 4-[illegible]			67		31	[illegible]5	[illegible]8	7.4	19[illegible]	[illegible]	87	[illegible]7	1.[illegible]	[illegible]0	.14	[illegible]37	546	114	[illegible]	69	[illegible]30	7.[illegible]	DWR-R3[illegible]5
	[illegible]1 2-[illegible]4-5			[illegible]0		38	10	128	[illegible].[illegible]	[illegible]20		93	[illegible]0[illegible]			.[illegible]0[illegible]	526	500	136		66	871	8.1	GP
	7-1[illegible]- [illegible]					27	11	[illegible]40	4.[illegible]	201		[illegible]06	90	.7	26	.[illegible]4	[illegible]47	[illegible]48	113		72	884	7.8	DWR-R710
	-14-[illegible]									212	[illegible]0		[illegible]0						113			846	8.0	DWR-V36[illegible]
	[illegible]1																	566						
	[illegible]P1 7-1[illegible]- [illegible]		[illegible]			34	9.0	110	4.1	171	[illegible]0	80	[illegible]0	.6	22	.5[illegible]	424	573	122		65	775	7.[illegible]	DWR-R712
	[illegible]-14-56[illegible]		[illegible]							168	0		[illegible]3						124		66	724	8.1	DWR-V357

well number	Date of collection	Depth of well (feet)	Water temperature (°C)	Results in milligrams per liter (mg/l)																	Percent sodium	Specific conductance (micromhos at 25°C)	pH	Analyzing laboratory and sample number
				Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Dissolved solids: Calculated (Sum of determined constituents)	Dissolved solids: Residue on evaporation at 180°C	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$				
U.S. Public Health Service drinking water standards (1962)					0.3							250	250	0.9	45		500	500						
11N W-Q1	-14-56		71			34	9.6	117	6.9	185	0	88	84	0.8	27	0.48	459	588	124			794	7.8	DWR-V359
	-14-58		68			34	10	124	7.2	189	3	88	89	.7	27	.64	476	558	126		66	822	8.4	DWR-V359
1 R1	7-14-					37	11	145	4.3	195	0	119	115	.7	25	1.2	554	615	138		69	1,010	8.0	DWR-R71
	-14-58									200	0		120						143			947	8.0	DWR-V369
11D1	- 4-53		64	68		45	9.8	128	10	193	0	93	89			.5	526	568	128		66	789	8.4	GP
	-14-58		69			47	11	131	8.4	208	0	91	89	.8	24	.70	496	556	120		68	831	8.0	DWR-V369
1 L1	9-19- 5			46		42	18	110		170	0	119	110	0	12	.3	541	615	179		57	808	7.5	SE-407517
	- - 5												120			.8		661						SE-446696-99
	1- 4-58												103			.3		415						SE-450958-64
	1- 6-59												116			3.4		438						SE-455936-41
	- 6-54												240			2.1		425						SE-468465-71
	-14-61												290			1.9		1,030						SE-480480-85
	7-14-47			34		54	14	89		149	0	46	100		0	1.1	373	451	130		59	649	7.2	SE-499331
H2	1 -21- 1												62						185			683		GW
	- 4-53		23	61	3.6	40	15	80	10	185	0	95	63			1.0	460	513	162		50	671	7.7	GP
	-17- 5			14		33	14	74	5.1	149		98	63	.2	1.2	1.7	383	382	140		54	640	8.3	DWR-V138
	10-31-5					42	15	74	5.5	183	0	96	59	.5	10	1.2	393	462	167		48	886	7.8	DWR-R911
	-14-56									184	0		65						168			781	7.9	DWR-V367
	9- 3-58		24	54		40	19	77	19	186	0	101	65	0	6.6	1.0	475	528	178		48	787	7.7	DWR-T2498
	- -61			6.		34	14	85	4.6	176	0	88	60	.6	15	1.7	452	427	142		5	678	7.6	DWR-12940
H4	1 - 4			44		36	12	74		161		82	60	.4	5.2	1.7	394	469	134		54	692	7.5	SE-468474
22E	12-21- 1												212						17			1,460		
	16- 2-		21	25	.08	28	8.9	206	6.2	207	0	148	167	.6	1.3	14	730	709	174		79	1,150	8.0	QW-B533
	-17-			22		42	12	230	7.0	224	0	166	189	.6	1.9	15	780	756	129		79	1,260	8.0	DWR-V133
	9-15-56		2			28	9.7	201	5.7	166	0	159	183	.6	6.8	11	687	707	110		79	1,190	7.5	DWR-V380
	-14-												194			7.7		674						SE-446401
	7- 9-58												184			8.9		582						SE
	1-26-59												194			8.6		851						SE
	7- 6-59												192			7.6		1,090						SE-468465-47
26E	11-27-51		27										212						125			1,360		GW

Well number	Date of collection	Depth of well (feet)	Water temperature (°C)	Results in milligrams per liter (mg/l)																Percent sodium	Specific conductance (micromhos at 25°C)	pH	Analyzing laboratory and sample number
				Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Dissolved solids: Calculated (Sum of determined constituents)	Dissolved solids: Residue on evaporation at 180°C	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$				
U S Public Health Service drinking-water standards (1962)					0.3							250	250	0.9	45		500	500						
11N/8W-26J1	11-[illegible]-[illegible]												201						195		1,400		GW
	[illegible]-[illegible]		20	.06		54	12	216	9.0	198	0	231	192			1.3	838	874	184		71	1,350	7.7	GP
	[illegible]-17-[illegible]		21			50	12	228	3.1	204	0	224	192	1.[illegible]	5.6	2.1	818	830	174		73	1,300	7.9	DWR-V374
[illegible]A1	[illegible]-15-56		21			25	11	253	24	596	0	60	187	.2	43	1.4	899	820	108		66	1,720	7.8	DWR-V382
[illegible]9K1	9-[illegible]-56			45		46	16	213		214	0	184	196	.8	0	.2	806	914	181			1,260	7.5	SE-407516
	[illegible]-[illegible]												240			2.1		866					SE-446696-99
	7-[illegible]-58												280			2.3		763					SE-450958-64
	1-6-[illegible]												216			3.6		846					SE-456936-41
	1[illegible]-6-59												200			2.1		758					SE-468453-471
	8-1[illegible]-61												80			[illegible].3		500					SE-484480-86
	[illegible]-6-6[illegible]			9[illegible]		48	19	161		189	0	130	176		1.7	[illegible].5	681	782	198			1,[illegible]40		SE-499339
30C1	9-17-56					64	18	164	5.7	183	0	165	193	.6	8.1	[illegible].0	710	795	234		64	1,[illegible]50	[illegible].4	DWR-V376
30F1	9-17-56					124	25	339	9.[illegible]	188	0	162	436	.5	14	1.4	1,200	1,380	412		64	[illegible],400	[illegible].6	DWR-V378
	[illegible]-3-[illegible]		27	31		56	23	168	4.6	173	0	171	207	.[illegible]	3.[illegible]	1.3	750	842	234		61	1,[illegible]20	[illegible].9	DWR-T2510
	[illegible]-4-60			54		124	28	233	8.[illegible]	149	0	169	461	.8	13	1.1	1,160	1,290	425		3	2,[illegible]00	7.3	DWR-R3487
	[illegible]-3-61									183	0		445						435			1,[illegible]00	[illegible].[illegible]	DWR-R4043
	[illegible]-11-6[illegible]									197			438						424			1,[illegible]40	[illegible].[illegible]	DWR-L2807
31P1	9-1[illegible]-[illegible]			[illegible]2	Trace	128	[illegible]2	384		317		293	468	1.6	[illegible]8.[illegible]	[illegible].6	1,5[illegible]	1,66[illegible]	340		68	[illegible],370	7.7	SE-[illegible]48
3[illegible]H1	[illegible]-2-66				0.1							137	426						455			[illegible],[illegible]00		H
3[illegible]D1	[illegible]-[illegible]-56			46		33	4.4	230		232	0	144	184	.4	0	1.[illegible]	757	[illegible]04	1[illegible]			1,[illegible]80	[illegible].[illegible]	SE-406837
	7-[illegible]-58												240			1.[illegible]		990					SE-450900-64
	1[illegible]-[illegible]-59												198			1.6		876					SE-468469-471
3[illegible]N1	1[illegible]-13-[illegible]				.1	78	[illegible]	44		[illegible]07		407	440		19		1,[illegible]60	1,[illegible]0[illegible]	[illegible]77		26	1,[illegible]00	7.4	H-48626
11N/9W-17J1	9-[illegible]-[illegible]					4.6	3.4	125	[illegible]8	95[illegible]	[illegible].	2.[illegible]	61	.4	1[illegible]	.32	716	348	[illegible]6		31	1,76[illegible]	[illegible].3	DWR-V369
19A1	[illegible]-[illegible]-[illegible]					31	1[illegible]	184	3.[illegible]	208	17	115	1[illegible]8	1.[illegible]	[illegible].	.65	[illegible]98	63[illegible]	11[illegible]	[illegible]	7[illegible]	1,[illegible]60	[illegible].7	DWR-17[illegible]
	9-15-56		19			33	12	194	3.1	209	[illegible]	118	130	[illegible].0	.6	.85	639	132			74	1,11[illegible]	7.1	DWR-V371
	[illegible]-[illegible]-[illegible]		.3	31		33	[illegible]9	150	12	[illegible]8[illegible]	[illegible]	1[illegible]5	117	1.[illegible]	5.[illegible]	.56	586	625	11[illegible]		76	1,[illegible]40	[illegible].1	DWR-R468[illegible]
[illegible]41	[illegible]-[illegible]-[illegible]		[illegible]1	58	.07	38	37	82	1.3	160		139	[illegible]7	.3	14	1.[illegible]	[illegible]41	537	[illegible]47		4[illegible]	80[illegible]	[illegible].4	QW-M527

Well number	Date of collection	Depth of well (feet)	Water temperature (°C)	Results in milligrams per liter (mg/l)																						Analyzing laboratory and sample number
				Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Dissolved solids: Calculated (Sum of determined constituents)	Dissolved solids: Residue on evaporation at 180°C	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$	Percent sodium	Specific conductance (micromhos at 25°C)	pH	
U S Public Health Service drinking-water standards (1962)					0.3							250	250	0.9	45		500	500								
11N [illegible]-3B1	[illegible]-24-53		19	8.4		7.6	2.6	205	6.0	226	10	176	68			0.[illegible]	595	598	30		[illegible]2	[illegible]64	8.8	GP
[illegible]4B2	[illegible]-1-5[illegible]			33		39	9.2	112		177	0	120	78	0.8	8.8	3.0	491	479	135			750	7.6	SE-4066[illegible]
	7- 9-58												78			2.1		495						SE-450958-64
	1-16-59												82			2.2		470						SE-456936-41
	1[illegible]- 6-59												82			3.[illegible]		497						SE-468465-471
	8-1 -61												80			2.2		517						SE-489480-85
	7-16-62			47		45	7.6	97		165	0	83	83		15	2.0	461	549	144			725	7.4	SE-499332
24Q1	7-23-55			35		63	22	157		140	6	162	210	.5		2.2	727	724	248				8.3	SE-405713
	7- 9-58												220			2.5		804						SE-450958-64
	1- 6-59												220			1.3		752						SE-456936-41
	1[illegible]-20-59												200			2.1		758						SE-468465-47
	8-10-61												290			2.2		1,060						SE-489480-85
	7-16-62			53		[illegible]0	21	141		187	[illegible]	131	212		7.0	1.8	838	837	[illegible]01			1,320	7.5	SE-499328
26R1	5-17-56					79	19	278	6.9	246	[illegible]	230	282	.4	6.8	2.9	1,040	1,110	276		68	1,800	8.2	DWR-V384
	4- 3-58			55		78	7	281	6.3	281	[illegible]	229	280	.4	7.4	1.4	1,080	1,100	224		72	1,700	7.9	DWR-R2240
	8- 4-60			57		89	20	278	7.6	293	[illegible]	230	280	.8	11	2.7	1,110	1,090	282	47	67	1,750	7.7	DWR-R3487
	8- 3-61			47		82	18	273	7.0	288	[illegible]	243	283	.4	2.5	2.0	1,100	1,560	279	42	67	1,730	7.7	DWR-L1[illegible]
	5-31-62			47		80	22	272	4.0	289	[illegible]	240	290	.4	2.8	2.4	1,100	1,140	2[illegible]	51	67	1,720	7.9	DWR-L2875
28C1	5-16-56		20			45	15	155	2.4	281	0	132	107	.6	1.9	1.5	598	633	174		66	1,030	7.9	DWR-V383
28K1	5-16-56					5.6	.6	140	1	184	2	81	58	.7	4.9	.[illegible]	385	404	16	[illegible]	94	654	8.2	DWR-V361
	9- 3-58			24		1	5	134	.7	196	0	77	59	.4	1.0	.6[illegible]	400	471	23	[illegible]	93	671	8.4	DWR-T2611
	8- 4-60									193	0								21			630	7.5	DWR-L225
	8- 3-61			23		7	1	152	.6	201	0	94	68	.8	0	.4[illegible]	446	538	22	[illegible]	93	704	8.2	DWR-L1759
	5-31-62			25		6	2.6	142	.5	191	2	63	63	.7	0	.2[illegible]	399	428	26	[illegible]	92	660	8.5	DWR-L2805
30N1	4- 5-52		2[illegible]	36	0.04	76	13	175	7.7	198		111	245	.3[illegible]	3.6	.3[illegible]	766	765	243		60	1,300	7.7	QW-R532
	12-21-52												253						270			1,320		GW
31D1	5-17-56					71	20	212	11	168	0	148	313	.5	1.9	1.0	861	925	260		63	1,580	7.6	DWR-V3[illegible]
31D2	5-15-56					52	[illegible].1	126	6.2	184	0	73	155	.3	1.9	.2[illegible]	517	572	167		61	9[illegible]	8.0	DWR-V356
	9- 3-58			23		54	10	148	6.1	19[illegible]	3	68	216	.1	2.2	.1[illegible]	609		176		64	1,070	8.3	DWR-R2232
	8- 4-60			16		53	18	157	5.9	168	0	71	248	.3	0	.14	652	612	206	68	62	1,180	7.8	DWR-L222
	8- 3-61									161	0		253						237	105		1,170	7.7	DWR-L1758
	5-31-62									169			258						212	74		1,130	8.1	DWR-L2806

Well number	Date of collection	Depth of well (feet)	Water temperature (°C)	Results in milligrams per liter (mg/l)																	Percent sodium	Specific conductance (micromhos at 25°C)	pH	Analyzing laboratory and sample number
				Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Dissolved solids: Calculated (Sum of determined constituents)	Dissolved solids: Residue on evaporation at 180°C	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$				
U S Public Health Service drinking water standards (1962)					0.3							250	250	0.9	45		500	500						
11N/9W-32A1	5-16-56					10	2.8	96	1.7	197	0	63	12	1.6	1.2	0.60	286	317	36		84	473	8.0	DWR-V390
33F1	5-15-56					13	3.4	99	1.4	200	0	64	17	1.2	4.9	.28	303	321	46		82	495	8.1	DWR-V360
	9- 3-58			24		11	4	92	1.6	171	12	64	18	1.1	2.7	.16	315	304	44		67	495	8.6	DWR-R2233
	8- 3-61			19		19	2	103	1.5	197	0	69	26	1.2	4.5	.27	342	374	56	0	78	530	8.3	DWR-L1906
	5-31-62			26		12	4.1	107	9	200	0	60	23	1.3	4.0	.21	346	490	47	0	65	749	8.2	DWR-14051
34A1	5-16-56					36	6.3	162	3.5	293	0	114	74	1.1	4.3	.62	546	580	116		75	920	8.1	DWR-V370
34B1	5-16-56					27	6.2	169	3.1	272	0	94	95	1.8	3.7	.80	535	578	93		79	933	8.2	DWR-V386
34B2	5-16-56					44	5.7	152	3.9	292	0	114	74	1.0	4.3	1.1	544	585	133		70	908	8.0	DWR-V389
34B3	5-16-56					36	6.8	150	3.5	269	0	108	77	1.2	5.0	.85	576	580	118		73	890	8.2	DWR-388
34K1	5-16-56					9.4	1.1	182	1.9	264	0	75	86	1.9	5.0	.43	495	500	28		93	863	8.3	DWR-V387
	9- 3-58			24		10	0	171	1.7	232	12	73	82	1.9	3.1	.35	493	495	25		93	820	8.7	DWR-R2241
	8- 4-60			15		13	4	170	3.9	264	0	86	87	1.4	1.8	.44	513	450	49	0	87	840	7.3	DWR-L226
	8- 3-61									271	0		94						40	0		865	8.0	DWR-L1762
	5- 3-62									273			91						37	0		830	8.2	DWR-L2802
34L1	8-23-55					20	7.0	216	1.9	222	14	68	186	2.5	6.4	.40	627	648	79		85	1,170	8.3	DWR-6106
	5-16-56									232	6		181						77			1,160	8.3	DWR-V385
36A1	6-27-55			18	Trace	48	11	305		336	0	184	256	1.4	0	.20	990	1,160	165		80	1,830	8.2	SE-403956
36C1	7-29-55			45	0.10	46	18	277		281	3	202	245	.8	0	3.2	978	1,120	189		76	1,610	8.1	SE-405710
36D1	7-29-55			50	.20	32	6.8	222		305	6	132	137	1.4		2.5	740	891	108		82		8.3	SE-405709
36H1	7-29-55			60	Trace	33	11	294		305		182	230	1.0		2.6	965	1,110	128		83		8.1	SE-405711
21N/11W-36B1	8-23-55					59	19	255	4.8	266	4	161	270	.4	2.2	.5	977	943	226		71	1,560	8.3	DWR-17453
	5-15-56									307	0		275						248			1,610	7.8	DWR-V364
	6H1	1-30-63		26	.09	90	27	267		329		189	320			.40	1,080	1,250	336		63	1,700	7.5	
		2-18-55				92	22	260	4.4	337	0	186	300	.6	0	.58	1,030	1,100	320		63	1,810	7.7	DWR-5365
		5-15-56				80	25	239	4.6	313	0	183	294	.4	3.1	.60	993	1,050	325		61	1,750	7.8	DWR-V366
21N/11W-36P1	5-14-53			25		19	4.0	143	3.0	210		99	70	1.6	2.5	.10	470		64		82	738	7.5	GP
21N/13E-34B1	4- 5- 3					2.6	.5	211	.8	89	10	260	35	15	5.1	4.3	597	561	9		98	987	9.1	DWR-P671
	7- 2-58			29		0	1	315	0.4	182	0	483	41	2.4	0	.7	972	1,040	4		99	1,500	8.7	DWR-R2040
	9- 2-58			42		3	0	248	1.2	73	12	401	38	1.1	3.8	7.2	826	849	8		98	1,270	8.6	DWR-R2218

Well number	Date of collection	Depth of well (feet)	Water temperature (°C)	Results in milligrams per liter (mg/l)																	Percent sodium	Specific conductance (micromhos at 25°C)	pH	Analyzing laboratory and sample number
				Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Dissolved solids: Calculated (Sum of determined constituents)	Dissolved solids: Residue on evaporation at 180°C	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$				
U. S. Public Health Service drinking-water standards (1962)					0.3							250	250	0.6	45		500	500						
[illegible]	4- 3-[illegible]					[illegible]	7.[illegible]	106	3.0	207		144	87	0.8	5.0	0.8	539	506	86		81	882	7.8	GF
[illegible]E-1[illegible]	1 - [illegible]			[illegible]	.15	[illegible]	[illegible]	al54		[illegible]85	[illegible]	468	21		.8		[illegible]90	1,[illegible]10	461		42			DGT
[illegible]	[illegible]			[illegible]	.[illegible]	[illegible]	9.7	a67		176	10	59	27		6.4		37[illegible]	387	120		[illegible]			DGT
[illegible]	[illegible]					74	6[illegible]	143	7.3	302	[illegible]	432	25	.7	7.6	.71	899	992	432		42	1,33[illegible]	7.4	DWR-R86[illegible]
[illegible]M1	6- 5-53					79	117	182	11	216	4	782	50	.7	3.7	.60	1,340	1,400	679		36	1,840	8.4	DWR-P67[illegible]
	7- 1-[illegible]			[illegible]		144	102	184	13	[illegible]0	0	810	260	.4	0	.75	1,530	1,510	782		33	2,280	4.0	DWR-T864
	[illegible]- [illegible]-58			31		82	91	110	7.2	256	0	576	20	.6	4.1	.42	1,050	1,130	579		29	1,400	8.2	DWR-R2217
	7- 8-[illegible]									264	0		23						594				7.6	DWR-10387
	4- 1-60			[illegible]		83	95	122	[illegible].0	253	0	562	23	1.3	1.9	.52	1,050	1,100	598		3[illegible]	1,310	7.7	DWR-R3204
	7-[illegible]8-[illegible]			26		74	30	216	14	242	0	551	23	.7	0	.60	1,050	1,160	308	109	59	1,400	8.2	DWR-L136
	8- 4-61			26		85	94	108	8.5	251	0	576	3[illegible]	.7	0	.62	1,050	1,200	599	392	28	1,490	7.9	DWR-L1744
	4-20-6[illegible]									263	[illegible]		24						575			1,420	7.6	DWR-T294
[illegible]0S81	3-12-53		[illegible]	34		95	96	160	4.0	298		698	24	.5	1.0	.9	1,260		632		35	1,710	8.2	GP
	1-19-54					97	99	160	7.3	298	[illegible]	724	23	.6	0	.21	1,260	1,380	650		35	1,510	8.0	DWR-3938
[illegible]M1	4-23-53		24	4.[illegible]		50	37	141	9.0	227		138	187	.8	5.0	1.3	685	714	277		5[illegible]	1,130	7.7	GP
	4- 1-60			37		37	28	121	8.2	211	[illegible]	171	82	.9	3.0	.54	593	[illegible]11	208		55	920	7.9	DWR-R3206
[illegible]N1	8-24-55					49	53	132	12	285	17	225	100	1.0	8.4	1.6	739	783	340		45	1,140	8.3	DWR-6084
	7- 1-57		[illegible]	34		48	38	174	8.0	235	[illegible]	104	230	1.2	3.7	2.2	759	849	276		57	1,320	7.9	DWR-T883
	7-[illegible]-60		[illegible]	31		40	34	106	6.8	217	0	182	80	.5	2.5	.62	590	638	240	62	48	961	8.2	DWR-L105
	8- 4-61									230	0		88						277	89		965	7.8	DWR-L1749
	4-20-62									200	19		84						270	74		1,010	8.5	DWR-13865
33H1	8-24-55		26			47	36	160	.8	146	0	74	305	.2	6.9	1.0	703	1,030	266		57	1,440	7.9	DWR-6109
	9- 2-58			36		51	30	170	6.7	134	14	88	284	0	5.2	.56	751	778	251	118	59	1,200	8.5	DWR-R2253
	7- 8-59		[illegible]	40		58	34	157	6.8	159		107	280	.4	1.2	1.1	764	804	285	153	54	1,330	7.3	DWR-10437
	4- 1-60			32		47	28	149	7.4	149	[illegible]	67	262	.4	5.6	.72	672	696	233		57	1,140	7.7	DWR-R3205
	7-[illegible]-60			26		41	27	156	8.6	141	3	64	261	.1	.9	.78	657	712	214	93	60	1,200	8.3	DWR-L106
	[illegible]- 4-61										0		251						201	67		1,160	8.1	DWR-L1746
[illegible]9S/40[illegible]-[illegible]E2	8-[illegible]-59					8.0	2.0	115	2.0	165	0	79	39	.6	2.2	.38	329	349	28		88	570	7.5	DWR-R913
30S/37E-[illegible]N.	1[illegible]- 7-53			54		53	3.2	734	6.0	196		934	427	8.0	2.0	33	2,350		146		91	3,480	8.2	GP
[illegible]3D[illegible]	3-11-53			30		164	4.0	602	4.0	102	0	999	480	4.0	.7	1.8	2,340		426		75	3,500	7.5	GP

Well number	Date of collection	Depth of well (feet)	Water temperature (°C)	Results in milligrams per liter (mg/l)														Dissolved solids		Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$	Percent sodium	Specific conductance (micromhos at 25°C)	pH	Analyzing laboratory and sample number
				Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)		Calculated (Sum of determined constituents)	Residue on evaporation at 180°C						
U S Public Health Service drinking-water standards (1962)					0.3							250	250	0.9	45			500	500						
30S 37E-23J1	8-24-54					66	17	102	2.6	256	2	156	42	0.8	3.9	1.7		415	563	214		51	822	8.3	DWR-178
	7- 1-57			.7		64	16	106	3.5	281	0	155	43	1.5	4.7	2.0		561	5	226		5	931	7.8	DWR-T8
	9- 2-58									250	14		40							203	0		655	8.6	DWR-R1
	7- 8-59									290	0		35										785	7.5	DWR-1
	8- 4-61			30		82	12	110	2.8	296	0	159	40	1.0	6.7	1.6		600	41	254	11	48	890	7.4	DWR-L17
	4- -62			33		61	16	104	3	295	0	132	35	1.0	4	.90		535	501	218	0	5	767	7.6	DWR-T290
23J3	6- 7-			32		65	14	90		294		116	37					499		220		47			SP
	1-29-49			40		72	14	100		316		125	48					555		237		48		7.6	SP-W9279
	8-17-49			38		71	14	98		303		128	47					545		235		47		7.3	SP-W9415
	4- 3-51			41		73	14	85		285		114	53					520		240		44		7.7	SP-W9631
	10-31-52			63		176	22	296		276		145	565		3.6			1,410		530		9		6.7	SP-W9948
24K1	5-13-53		21			71	7.0	113	4.0	275		174	44	1.6	2.0	2.8		604		206		54	871	7.7	GP
24R1	3- 7-53			40		66	19	80	2.6	294		135	32	1.6	2.5	1.		525		243		4	796	7.4	
26D1	6- 4-54					164	55	17	4.5	454		382	133	.	52	.7		1,190	1,21	636		36	1,86	7.	DWR-P67
	8-24-5			31		56	39	146	4.4	206		290	96	.5	2	.48		796		5		1	1,18		GWIC
6E1	3-17-53			26		67	21	78	3.0	315		100	26	.7	3.7	.6		490		254		4	78	7.6	GP
8H1	7-13-5			7		7	34	75	2.3	30	0	164	32	.6	11	.48		540	56	25		4	906	7.	DWR-
	9- 3-58			23		71	31	84	1.7	322		158	36	.5	8	.40		572	567	305	41	37	86	7.	DWR-T2514
	7- 8-59									312	0		34							311			877	7.6	DWR-1
	8- 3-61			43		46	18	150	3.5	238	0	109	154	.6	0	.75		64		186		63		8.	DWR-L17
	4- 5-62			28		36	51	93	3	331		152	34	1	6	.12		567	570	3		4	11	7.7	DWR-T24
36C1	3-11-53		3	40		57	16	82	4.0	176		121	80	.4	.6	.70		400		0		45	76	7.7	GP
36N1	3-11- 3		2	31		58	15	89	5.0	156		128	13	.4	3.5	1.0		511		206		48	88	7.7	GP
30S 38E-3B1 1/	4-24-					268	180	1 ,000	52	374		2,610	14,600	1.	0	28		27,90	8,	1,410	1,	44	37,	6.7	DWR-16
	7- 1-57		24	33		224	12	8,100	78	342		2,11	11,500	1.0	0	28		21,40	2,	1,	77	44	34,90	7.4	DWR-T86
	9- 2-58		24	8		21	5	5,980	52	294		1,570	8,070	.4	11	20		17,	1	1	4	43	24,90	7.4	DWR-R221
	7- 8-		24			1,74		18,400	160	166		1,14	31,300	8.	5.			54,6	4,	1,3	1,1	74	63,40	6.	DWR-13
	8- 4-61		24	43		1,	38	24,20	22	305		5,33	36,80	.6	0	2		68,40	71,	4,60	4,3	7	,	6.4	DWR-L18
	4-20-62		23	6		1,20	312	34,000	32	366		5,160	50,200	4.	2.5	4		91,5	,	4,	3,	84	1,7	6.7	DWR-13866
	5-31-62			54		1,250	208	36,300	30	45		5,380	55,600	3.3	3.7	40		99,90	1 1,	4,35	3,98	84	45,	6.	DWR-14
5A1	10- 7-53			65		148	3	653	10	14		1,100	931	2.4	1.5	19.6		2,52		403		74	3,	7.	GP
	8-24-55					167	39	940	30	107		1,150	975	2.	0	18		3,370	3,	578		77	5,77	7.9	DWR-610
	7- 1-57			34		154	39	918	15	108		1,120	910	2.4	1	16		3,260	3,	544		78	4,960	7.	DWR-T884
	9- 3-58									124	0		881							43			4,64	8.1	DWR-R18
	7- 8-			19						11			863							530			4,70	7.	DWR-13
	8- 4-61									134			748							60	471		4,45	7.6	DWR-L175
	4- -62			3		147	40	97	14	14		1,12	90	.4	1	20		3,23	3,	7	44	77	4,72	7.	DWR-T311

See footnote at end of table.

Well number	Date of collection	Depth of well (feet)	Water temperature (°C)	Results in milligrams per liter (mg/l)																		Specific conductance (micromhos at 25°C)	pH	Analyzing laboratory and sample number
				Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Dissolved solids: Calculated (Sum of determined constituents)	Dissolved solids: Residue on evaporation at 180°C	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$	Percent sodium			
U S Public Health Service drinking water standards (1962)					0.3							250	250	0.9	45		500	500						
30S/38E-8J1	5-13-53		24	75		59	14	1,630	14	263		535	2,130	1.6	5.0	2.6	4,600		205		94	7,390	7.6	GP
14K1	3- 3-17			66	0.57	60	15	800		302	0	127	25		.9		533	531	212		48			DGT
	8-24-55					35	7.9	86	5.1	219	0	66	51	.8	.7	.25	361	404	120		60	597	8.2	DWR-17454
	7- 1-57		26	26		36	9	84	3.5	244	0	28	53	1.2	2	.35	363	410	127	0	59	611	7.9	DWR-T886
	9- 2-58		26							234	0		60						123	0		594	7.9	DWR-T2500
	7- 8-59		26	37		64	13	84	2.8	311	0	96	30	.8	1.0	.34	475	445	213	0	46	726	7.8	DWR-10285
	8- 4-61									330	0		39						223	0		758	7.6	DWR-1[illegible]
	4-20-62									362	0		33									774	7.7	DWR-T310
19M1	3- 3-17			31	.22	38	9.6	880		214	0	33	66		2.0		368	366	134		57			DGT
	5-13-53			40		68	14	77	2.0	284		122	26	1.6	1.3	.40	492		227		42	728	7.7	GP
	3-12-53			39		69	13	84	6.0	300		122	33	.8	.7	1.1	517		226		44	790	7.9	GP
	4-17-61		21	50		63	13	94	4.4	328	0	99	27	1.0	2.6	.31	466	494	211	0	49	781	7.5	DWR-12582
20C2	5-13-53			49		60	10	105	5.0	355		85	28	.9	.4	.80	510		191		54	796	8.1	GP
20F1	12-17-55					70	11	82	3.5	308	0	117	28	1.1	1.1	.24	466	482	220		44	812	7.7	DWR-R912
	7- 1-57		22	26		65	11	92	4.6	322	0	109	28	2.2	0	.25	497	540	208		49	785	8.0	DWR-T870
	12-19-57									301	0		30						226			776	7.6	DWR-8598
	7- 8-59		20							322	0		31						206			772	7.9	DWR-10408
	4-20-62			34		67	18	90	5	303	0	123	30	1	0	.44	517	540	241	0	44	774	8.0	DWR-T302
21D1	5-13-53		19	75		67	17	70	7.0	253		134	33	1.6	1.5	.15	531		237		38	738	7.6	GP
21N1	8-25-60		21	17		26	20	94	3.9	214	0	119	38	1.0	0	.50	424	368	147	0	57	693	7.3	DWR-1201
	8-22-62		22	31	.04	30	12	105	5.4	239	0	108	35	1.0	0	.50	446	420	124	0	63	687	8.1	DWR-14286
24F1	5-13-53					1,650	36	3,140	36	61		844	7,250	3.2	5.0	51	13,100		4,270		62	20,000	7.9	GP
30R1	8-24-55		22	24		53	45	89	4.7	142	0	150	170	.4	2.5	.26	609		318		38	1,040	8.1	QW-17448
	7- 1-57		24	19		100	30	98	3.9	172	0	163	215	1.4	0	.35	716	775	373		36	1,240	8.2	DWR-T871
32D1	5-13-53			30		837	370	589	10	155	0	1,660	2,120	.4	5.0	3.0	5,700		3,610		26	7,400	7.3	GP
34C1	5-13-53		28	20		355	9.8	78	4.0	107	0	834	90	.4	3.0	.85	1,450		927		15	1,890	7.6	GP
30S/39E-3C1	4-20-62			36		90	47	197	8.2	144	0	97	460	.3	1.8	1.3	1,010	1,090	418	301	50	1,880	8.0	DWR-14047
8A1	5-13-53			2.9		145	36	463	13	151		303	778	.4	5.0	4.6	1,820		510		66	3,080	7.6	GP

Well number	Date of collection	Depth of well (feet)	Water temperature (°C)	Results in milligrams per liter (mg/l)																					Analyzing laboratory and sample number
				Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Dissolved solids: Calculated (Sum of determined constituents)	Dissolved solids: Residue on evaporation at 180°C	Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$	Percent sodium	Specific conductance (micromhos at 25°C)	pH	
U S Public Health Service drinking-water standards (1962)					0.3							250	250	0.9	45		500	500							
31S/37E-1H1	8-24-55					62	14	75	3.9	146	0	136	81	0.2	4.6	0.33	449	477	212		43	765	8.2	DWR-17786
	7- 1-57		26	20		55	17	81	4.2	146	0	135	85	.3	5.3	.21	475	482	207		45	776	8.2	DWR-T888
	7- 8-59		23	30		49	22	86	4.0	161	0	120	103	.4	2.5	.44	496	480	213		46	801	7.7	DWR-10384
	8- 3-61		27	22		57	21	79	3.8	154	0	138	87	.2	4.8	.47	489	528	229	2	42	777	7.7	DWR-L1745
	4-20-62									145	0								210			778	7.9	DWR-T301
5M1	7-13-55		24			43	34	108	4.4	232	0	240	38	.7	6.0	1.2	589	605	247		48	922	7.7	DWR-5940
	9- 3-58		26	24		67	16	117	.7	224	0	240	42	.5	6.5	.9	625	691	233		52	959	7.9	DWR-T2514
	7- 8-59									237	0		38						237			942	7.2	DWR-10392
	8- 3-61									227	0		42						234	45				LWR-L1747
	4-20-62		27			65	18	114	5.0	234	0	236	34	.7	6.7	1.0	622	617	236	44	51	963	7.7	DWR-13853
10A1	8-24-55		27			63	12	81	4.7	151	0	159	73	.2	5.6	.43	473	504	207		45	788	8.2	DWR-17785
	7- 1-57		27	23		52	19	90	4.6	151	0	149	80	.3	6.2	.32	498	510	208		48	802	8.1	DWR-T889
	9- 3-58		28							137	3		82						115			767	8.4	DWR-R2187
	7- 8-59									151	0		82						204			781	7.5	DWR-10407
	8- 3-61		28							148	0		82						156				7.8	LWR-L1748
	4-20-62		26	26		59	16	87	5	152	0	158	82	.3	5	0	513	500	213	84	47	[illegible]	8.0	DWR-T300
14L1	3-10-53		22	20		62	14	79	4.0	164		119	88	.1	1.0	.80	475		212		44	783	7.6	GP
	7-13-55					65	16	80	4.3	151	2	126	96	.3	4.7	.38	469	500	228		43	882	8.4	DWR-R741
28P1	3-29-60			27		51	16	87	4.7	201	0	119	69	.4	3.2	.22	477	442	193		49	697	7.8	DWR-R3[illegible]
35N1	3-10-53		26	30		62	14	112	3.0	129		123	158	.3	2.9	1.0	573	570	212		53	1,010	7.[illegible]	GP
31S/39E-24M1	6-23-60			12		9	0	172	1.0	98	0	103	148	2.2	2.0	.26	497	485	22	0	94	831	7.9	DWR-11684
	11-22-66			19	0.12	3.4	.5	138	1.9	74	25	110	80	.2	0	.09	414		11		90	694	8.9	PJB
24P1	6-23-60			18		19	2	205	5.2	139	0	104	187	4.4	.5	.60	619	605	56	0	88	1,040	7.7	DWR-11685
32S/36E-22B1	12- 3-52												58						465			1,23[illegible]		GW
	7-12-55					124	38	102	5.9	217	3	393	59	.3	9.9	1.7	844	895	466		32	1,240	8.4	DWR-R747
	7- 1-57		21			109	41	115	6.9	227	0	391	63	.2	8.3	1.8	869	910	441		36	1,260	7.8	DWR-T891
	9- 2-58									232	0		66						452			1,260	7.8	DWR-T2465
	7- 9-59									232	0		63						452			1,220	7.7	DWR-10406
	8- 5-61		24			115	39	112	5.5	228	0	405	61	.1	6.6	1.7	882	970	448	258	35	1,230	7.8	DWR-L1721
32S/37E-4D1	7- 9-59		30			52	13	88	4.4	192		107	86	.4	3.6	.45	480	475	183		51	762	7.4	DWR-10434
4P1	7-13-55		27			48	12	91	3.9	192	0	104	76	.3	4.8	.48	435	450	169		53	690	8.3	DWR-R749
14N1	3-10-53			26		29	7.0	125	4.0	218		93	79	.9	1.0	1.3	473		101		72	808	7.4	GP
	7-13-55					30	8.9	132	3.2	210	3	98	82	.9	3.8	.58	464	484	108		72	797	8.4	DWR-R750
	7- 1-57			20		31	7.0	132	2.4	223	0	89	76	2.4	0	.40	470		106		73	797	7.4	DWR-T872

Well number	Date of collection	Depth of well (feet)	Water temperature (°C)	Results in milligrams per liter (mg/l)														Dissolved solids		Hardness as $CaCO_3$	Noncarbonate hardness as $CaCO_3$	Percent sodium	Specific conductance (micromhos at 25°C)	pH	Analyzing laboratory and sample number
				Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Calculated (Sum of determined constituents)	Residue on evaporation at 180°C						
U S Public Health Service drinking-water standards (1962)					0.3							250	250	0.9	45		500	500						
[illegible]	3-1 - 3		27	[illegible]		44	1[illegible]	136	2.0	218		113	114	0.7	[illegible]	1.2	562		172		63	935	7.8	GP
[illegible]	[illegible]-13-[illegible]					4[illegible]	13	14[illegible]	3.8	183	0	168	121	.7	5.4	1.2	584	542	153		66	9[illegible]	8.[illegible]	DWR-K7[illegible]
	[illegible]-[illegible]		[illegible]	[illegible]		[illegible]	7.[illegible]	13[illegible]	3.5	183	18	91	80	1.8	2.6	.32	475	548	84		78	790	8.4	DWR-2[illegible]
	6G1	[illegible]-3-6	[illegible]	[illegible]		13	3.2	135	2.0	224	0	84	71	1.4	2.0	.40	454	430	70	0	80	737	8.1	DWR-14284
	[illegible]R1	[illegible]-[illegible]-62	[illegible]	[illegible]		17	6.1	144	2.3	224	0	86	75	1.4	1.5	.40	469	44[illegible]	68	[illegible]	82	752	7.9	DWR-142[illegible]
[illegible]	[illegible]B-1[illegible]P1	5-14-[illegible]		[illegible]		26	10	253	3[illegible]	70[illegible]		15	74	.4	.5	.50	782		106		78	1,730	7.[illegible]	GP
	[illegible]N1	3-2-[illegible]3		[illegible]		21	8.0	178	2.0	368	12	104	93	1.8	.8	.60	576		85		81	957	[illegible].[illegible]	GP
[illegible]	[illegible]E-4-L1	[illegible]-14-[illegible]		[illegible]		11	3.8	40[illegible]	8.0	606	12	256	[illegible]0	4.0	2.5	3.3	1,140		43		94	1,700	8.3	GP
	33L1	[illegible]-[illegible]-56				41	3.[illegible]	101	4.8	226	[illegible]	84	39	.7	11	1.2	397	479	115		65	694	7.7	DWR-R1[illegible]
	33R1	[illegible]-3-5[illegible]		41	[illegible]1	8	1	149	4.8	342	[illegible]	86	74	.8	26	.69	609	599	160		66	945	8.1	DWR-R2234
		[illegible]-2-61		3[illegible]		40	9	150	4.0	330	[illegible]	8[illegible]	78	.8	19	1.0	598	630	159	0	67	[illegible]8	7.8	DWR-L1760
		5-31-6[illegible]		36		47	8	14[illegible]	3.8	329	[illegible]	9[illegible]	74	.[illegible]	19	.8[illegible]	584	618	150	0	67	885	8.[illegible]	DWR-L2789

1. Constituents are reported as concentrations in parts per million.

TABLE 5.--*Pumping tests*

Source of data: CW, Cyril Williams, consultant; D, driller; DGT, Thompson (1929); DWR, California Department of Water Resources; GS, U.S. Geological Survey; O, owner; P, pump service contractor; SCE, Southern California Edison Co.; SE, Stetson Engineering Co.

Depth of well: The depth shown is the depth of the well on the date of the pumping 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. In some cases, the static water level may be higher than that listed because the standing water-level measurement was made minutes after completion of the test and reflects the water during recovery, not the static level. Because the reported static water level is not always precise, the drawdown and specific-capacity values may not be exact. Water-level measurements preceded by a plus (+) indicate the water level is above land-surface datum.

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)
10N/7W-6A1	O			113			
6B1	O		9- 7-45	3.7	b181.5		
	O		12- 9-46	8	185.3	10.2	0.8
	O		9-11-50	13.2	201.2	5.3	2.5
6B2	D	454	6-30-55	30		124	.24
10N/8W-1Z1	D	435	4-22-66	20	219	181	.11
11N/7W-30Q1	O			4.5			
32E1	D	502	5-31-56		232		
				160	b253	21	7.6
				210	b262	30	7.0
				250	b272	40	6.2
				300	b292	60	5.0
				310	b303	71	4.4
				325	b330	98	3.3
32H1	O			225		130	1.7
32K1	O			30			
32M1	O			240		180	1.3
32M2	D		11- 8-56		205		
				80	b257	52	1.5
				130	b272	67	1.9
				190	b305	100	1.9
				240	b385	180	1.3
32N1	O			7			
32N2	SCE	454	1953	20	225	70	.28
32N3	O			40			
32N4	O			10			
32P1	O			5			
11N/8W-2N1	O		6- 6-52	230	178	50	4.6
	O		12-26-52	230	175	37	6.2
2P1	D	[illegible]	9-21-41	55	170	18	3.1
	O			75		27	2.8
3C1	D		6-12-54	57		47	1.2
3P1	P	430	4-16-54	30		25	1.2
3Q1	O	414	3-17-54	600	160	91	6.6
3Z3	O		10- 9-48	200	157		
10Z1	O			35			
11D1	O		6- 6-52	240	168	28	10
	O		12-26-52	240	170	24	12
11Z1	O		8- 7-48	145		43	3.4
15K1	O	500	10-22-54	47.2	162.3	132.2	.36
	D	678	10-22-54	67	162.3	36	1.9
17R1	O			10			
19L1	O	383	8-23-55		145.0		
				535	b183.0	38	14
				46	b179.0	34	14
				400	b169.0	24	17
				350	b166.0	21	17
				300	b162.0	17	18
20H2	DWR		9- 3-58	4.5			
[illegible]K1	O	495	8-25-55	750	140.0		
				750	b193.0	53	14
				650	b181.0	41	16
				550	b176.0	36	15
				450	b165.0	25	18
				350	b156.0	16	22
30F1	DWR		5-17-56	15			
30H1	O			20		3	17
30Q1	O	485	7-15-55		118		
				350	b248	130	2.7
				300	b239	121	2.5
				240	b223	105	2.3
				146	b202	84	2.3
				110	b175	57	1.9
31P1	O	304		1,350	108	47	29
[illegible]L1	D	[illegible]4	11-13-63	600	135	19	32
[illegible]D1	D	606	8-17-[illegible]		170.0		
				275	b216.0	46	6.0
				250	b214.0	44	5.7
				[illegible]	b212.0	42	5.4
				200	b207.0	37	5.4
				175	b205.0	35	5.0

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)
11N/8W-35N1				395		103	3.8
11N/9W-13D1	O	312	8-27-55		159.0		
				560	b177.0	18	53
				850	b175.0	16	53
				750	b173.0	14	54
				650	b170.2	11	59
				550	b168.0	9	61
				300	b163.0	4	75
13L1	O	462			147		
				1,200	b159	12	100
				990	b157	10	99
				815	b155	8	102
				600	b152.7	5.7	105
				390	b151	4	98
				225	b149	2	112
19A1				30			
19D1	D	200	11-21-62	40	118		
24A1	D	900	4-27-55	96	140	189	.51
24B2	O	542	8- 5-55		132.0		
				1,460	b152.0	20	73
				1,200	b147.0	15	80
				900	b145.0	13	69
				600	b141.0	9	66
				300	b139.0	7	43
24Q1	O	360	7- -55		119	26	35
				900	b137	18	50
				870	b134	15	58
				660	b131	12	55
				560	b130	11	51
				460	b128	9	51
				360	b126	7	51
				265	b124	5	53
25L1	O	480	7-25-55		110.0		
				930	b122	12	78
				750	b120	10	75
				600	b119	9	67
				450	b117	7	64
				300	b115	5	60
				150	b113	3	50
28K1	DWR	285	5-16-56	900	89	8	112
				920		8	115
28K2	D	303	3-27-61	[illegible]			
				1,500	b120	30	50
				1,300	b113	23	57
				900	b107	17	53
				750	b104	14	54
28N1	O			230			
28R1				4			
29H1	O	345	7- -55		88		
				940	b96.1	8.1	116
				800	b94.6	6.6	121
				650	b94.2	6.2	105
				500	b92.6	4.6	109
				350	b91.2	3.2	109
				150	b89.2	1.2	125
29K1	O	405	8- 2-55		88.0		
				850	b111.6	23.6	36
				700	b106.5	18.5	38
				550	b102.0	14	39
				400	b97.5	9.5	42
				250	b94.5	6.5	38
30H1	O			10			
30Q1	O			7			6.6
31D2	DWR	425	5-15-56	100	199.8		
	O			35		240	.15
32F2	O			600			
34K1	DWR	147	5-16-56	30	85		
36A1	D	610	6-10-55	365		30.5	12
36C1	O		6-29-55		107		
				270	b117	10	27
				850	b130	23	37
	O	407	7- 7-55		106.0		
				850	b128	22	39
				690	b125	17	41
				510	b117	11	46
				407	b114	8	51
				300	b112	6	50
36D1	D	414	6-28-55		101		
				690	b125	29	24
				595	b132	19	31
				495	b139	13	38
				400	b141	10	40
				300	b144	7	43

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)
11N/9W-36H1	D	250	7-12-55		104.6		
				410	b133.6	29	14.1
				315	b123.1	18.4	17.1
				275	b119.6	15	18.3
				239	b117.6	13	18.4
11N/10W-36H1	GS	297	1-28-58	150			
12N/9W-35L1				1,833		54	34
36M1				550			
29S/37E-34B1	DGT	60	1917	16			
29S/38E-27RS1	GS		4-23-53	.05	(a)		
	GS		4-27-67	.10	(a)		
29S/39E-12L2	DGT	520	1917	65	460		
12L3	DGT	1,400	1917	65	440		
20QS1	GS		4-23-53	.33	(a)		
	IWR		1-19-54	.3	(a)		
	GS		4-27-67	.10	(a)		
23J1				600			15
29M1				800		28	29
29N1				350			
32C1				1,164			
33H1				1,100		225	4.9
29S/40E-22E2				94		31	3.0
30S/37E-12N1				8			
23J3	DGT	4	1919	56	60.4		
	O		9- 2-48	55.1	56.8	26.2	2.1
24K1				200			
24R1				360		20	18
24R2				215		20	11
25M1	SCE		4-14-52	1,058	b126.8		
	SCE		4-22-53	1,083	b170.0		
	SCE		9-10-59	1,147	47.5	79.5	14
	SCE		10-19-60	803	b167.0		
26E1	SCE		4-22-53	1,289	b103.0		
	SCE		2-25-59	1,418	77.0	11	129
	SCE		9-10-59	1,632	b102.0		
	SCE		10-13-60	1,469	b123.0		
	SCE		10- 6-61	1,309	b127.0		
	SCE		9-25-62	1,465	b130.0		
26K1	DGT	640	1917	900	60		
26M1				180			
26M3				1,125		16	72
26Z1	DGT	350	1917	810	65	13	62
27H1				100		8	12
28J1				150			
34B1				2			
35D1	SCE		4-14-52	2,381	b96.3		
	SCE		4-22-53	2,022	b99.0		
	SCE		8-26-59	1,299	b114.0		
	SCE		9-21-61	1,634	b127.0		
				1,749	b118.0		
	SCE		9-20-62	1,757	b130.		
35Q1	SCE		4-15-52	2,917	b91.6		
	SCE		4-22-53	2,534	b56.4		
	SCE		9-30-59	1,279	b140.		
	SCE		10-13-60	1,338	b154.		
	SCE		10- 6-61	1,204	b171.0		
	SCE		9-25-62	1,214	b181.		
36C1	SCE		4-23-53	2,139	b125.5		
	SCE		10- 1-59	1,752			
	SCE		1-28-60	615			
	SCE		10- 6-61	1,856			
	SCE		9-25-62	1,900			
36E1	SCE		10- 6-61	1,833	b174.0		
	SCE		9-25-62	2,034	b1 2		
36G1	DGT	938	1917	1,200	(a)	60	
	SCE		4-14-52	899	35.	95.6	9.4
				1,200		60	
36K1	SCE		4-23-53	1,354	b115.		
	SCE		10- 1-59	[illegible]	b220.0		
	SCE		10-13-60	1,117			
	SCE		10- 6-61	1,396			
	SCE		9-25-62	1,201			

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)
30S/37E-36M1	SCE		4-14-52	2,659	b103.3		
	SCE		4-22-53	2,436	b107.0		
	SCE		9-30-59	1,382	127.	10	138
	SCE		10-13-60	1,520	b140.		
	SCE		10- 6-61	1,232	b167.		
	SCE		9-25-62	1,161	b183.0		
30S/38E-8G1	DGT	19	1917	70	(a)	18	
8J1	GS		5- 5-53	20	(a)		
8K2				350			
19K1	DGT	828	1917	20	a44		
	DGT	828	1917	1,125			
				370		42	
	IWR	800	4- 4-61	1,800			
19M1	DGT	880	1917	936	12	68	14
				500		86	5.8
20F1	IWR	205	12-17-55	500	2		
21D1	GS		5-12-53	20			
21N1	DWR	300	8-25-60	50			
	IWR		8-22-62	600			
24F1		550	1944	.38			
28D1			5- 7-53	40	(a)		
30B1	GS		2-26-58	10	(a)		
30B2	DGT		1917	20	(a)		
	DGT		1917	450			
30E1	DGT	260	1917	40	(a)		
30P1	SCE		4-22-53	1,566	b95.4		
	SCE		8-25-59	1,171	93.5	60.5	1
31C1	SCE		10- 6-61	2,033	b163.0		
	SCE		9-25-62	2,245	b186.0		
31F1	SCE		4-14-52	1,225	b124.0		
	SCE		4-22-53	1,261	b127.0		
31G1	SCE		4-14-52	1,854	b119.7		
	SCE		4-22-53	1,576	b129.5		
31Q1	SCE		10- 1-59	1,940	b133.		
	SCE		10-13-60	1,942	b143.		
	SCE		10- 6-61	1,557	b158.0		
	SCE		9-25-62	1,886	b157.0		
32N1	DGT	615	1917	585	13	20	29
34C1				250			
30S/39E-3C1				1,600		45	36
31S/37E-1R1	SCE		4-15-52	2,692	b126.		
	SCE		4-23-53	2,578	b146.0		
	SCE		9-30-59	1,729	b167.		
	SCE		10- 4-60	732	b162.		
	SCE		10-28-60	1,212	b173.		
	SCE		10- 6-61	1,794	b200.		
	SCE		9-25-62	1,743	b215.0		
2P1				2,531	b43.2		
	SCE		4-22-53	2,073	b50.0		
	SCE		9-30-59	1,667	b78.		
	SCE		10-13-60	1,592	b95.		
	SCE		10- 6-61	1,493	b202.		
	SCE		9-25-62	1,245	b215.0		
4N1	SCE		10- 1-59	1,643	b156.		
	SCE		10-13-60	1,559	b168.		
	SCE		10- 6-61	1,718	b181.		
	SCE		9-25-62	1,599	b193.		
5M1				8			
9C1	O	650	1	1,200	b230		
	O		4-30-54	1,688	b15		
11Q1				500			
12M1	SCE		3-13-	1,635	164.		1
	SCE		7-30-5	2,	b197.		
	SCE		10-28-60	2, 55	b207.		
	SCE		1- 6-61	1,262	b212.		
	SCE		9-25-62	1,630	b231.		
14L1		250		600			
13K1				750			
1Q1				1,400			
32A1	DGT	320	1917	1			
33C1	DGT	440	1- 3-17	18			
34H1	D		1 2	1,			
	O		4-22-54	1,			
	O		8-24-54	1,065	b 3		
	SCE		6-19-56	1, 5	230		4
	SCE		2- 4-59	1,733	270.		
	SCE		6-18-59	1,848	b195.		

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)
31S 37E-35N1	D	65[illegible]	1[illegible]	2,750	235	30	58
	SCE		4-[illegible]	1,486	b293.[illegible]		
31S [illegible]E-6B1	DGT		1-17	720	35		
31C1	DGT		1-17	45	230		
31S [illegible]E-24M1	O	42	1-14-[illegible]	754	364.		
	SE	42	7-26-65	75			
	SE	42	12- 5-66	70			
24P1	O	[illegible]	[illegible]	7			
[illegible] 37E-2E1	DGT	446	1-17	315	244		
4D1	D	65	19[illegible]	1,840			
	O	65	4-17-53	1,916	253	113	17
			4-22-54	1,888	b366		
	SCE		8-24-54	1,840	253		
			[illegible]	1,[illegible]	b[illegible]		
			[illegible]	1,61[illegible]	[illegible]	43.	48
	SCE		6-22-59	1,[illegible]6	b425.0		
4P1	O	800	1952	2,300	26[illegible]	82	2[illegible]
	O		4-16-53	2,314	b347		
	SCE		4-30-54	2,118	265		
	O		10- 5-55	1,835	[illegible]		
	SCE		6-22-59	1,819	b426.[illegible]		
4Q1			1952	150			
9Q1	D	711	1952	1,690			
	O	711	4-15-53	1,683	275	112	15
	O		4-22-54	1,594	b396		
	O		8-23-54	1,532	b403		
	O		10- 4-55	1,448	b410		
	SCE		6-19-56	1,347	275	44	31
	SCE		6-18-59	1,[illegible]38	b465		
11N1	D	520	1952	1,000	b420		
	SCE		4- 7-53	686	b384.[illegible]		
	O		4-22-54	495			
12M1				300			
14N1	D	685	1952	1,000	b685		
	O		4-22-54	[illegible]			
	[illegible]		[illegible]-54	[illegible]			
	SCE		12- 5-55	470	b518		
16R1	O	666	4-30-53	1,[illegible]1	390	[illegible]	34
	O		4-22-54	2,[illegible]36	b449		
	O		8-24-54	1,926	b460		
	O		10- 5-55	1,685	b415		
	O		6-19-56	1,699	390	[illegible]	44
	SCE		2- 4-59	1,662	358.	156	11
	SCE		6-18-[illegible]	1,820	b471		
	SCE		2-28-6[illegible]	871	345.7	21.[illegible]	40
[illegible]2N1	D	[illegible]	1952	1,[illegible]00			
	[illegible]		7- 0-[illegible]	1,524			
	[illegible]		4- 3-54	1,535			
	[illegible]		5-24-54	1,[illegible]08			
	O		8-25-54	1,548	b47[illegible]		
	O		10- 4-55	1,[illegible]1[illegible]	b459		
			6-19-56	1,350	b472		
	SCE		1-26-[illegible]9	1,265	376.	[illegible]	14

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)
32S/37E-23N1	D	680	1952	1,900	b380		
	SCE		4-16-[illegible]	1,784	b401.		
	O		4-15-53	1,[illegible]6			
	O		4-22-54	1,831	b434		
	O		8-23-54	1,548	b437		
	O		10- 4-55	1,58[illegible]	b398		
	O		10- 4-55	2,618			
	O		6-19-56	1,422	b406.[illegible]		
	SCE		2- 4-59	1,386	344.[illegible]	38	36
	O		6-18-5[illegible]	1,452	b413.		
	24N1			250			
	24N2	DGT	[illegible] 1917	315	242		
		CW	[illegible]- 4-22	225			
	26Q1	O	4-15-53	1,977	b360		
		O	4-22-54	1,696	b365		
		O	8-23-54	1,550	b380		
		SCE	6-1[illegible]-56	1,3[illegible]	326	45	[illegible]
			7-15-58	971	b378.[illegible]		
		O	7-27-61	1,100	b339.0		
		SCE	10-28-65	946	302.1	38.4	25
	26M1	O	4-21-53	1,611	b412		
		O	4-22-54	1,749	b414		
		O	8-23-54	1,657	b429		
		O	6-19-56	1,589	b436		
		SCE	7-15-58		b466		
			7-30-63	6[illegible]	314	[illegible]	7.6
		SCE	10-28-65	564	324.2	6[illegible].[illegible]	[illegible].1
	6N1	D	1,000 1952	1,800	b400		
		SCE	4-21-53	1,004	b405.0		
		O	4-13-54	1,008	b422		
		O	3-31-55	1,008			
			6-18-56	971			
		SCE	7-15-58	791	b441.[illegible]		
	6R1	D	500 1952	2,250	265	[illegible]	112
		O	4-21-53	2,069	b338.0		
		O	4-22-54	1,905	b343		
		O	8-23-54	1,877	b350		
		O	10- 5-55	1,715	b332		
		SCE	6-18-56	1,665	265.00	76	22
		SCE	7-21-58	1,111	b350.0		
		O	7-28-61	632	b301.50		
	32N1			1,000			
	35Q1	O	4-16-53	1,530			
		SCE	4-22-54	1,083			
		O	7-27-61	730	321.[illegible]	7.65	3.5
		SCE	10-28-65	656	318.2	33.[illegible]	20
	36N1			550			
	[illegible]9E-33L1			1,7[illegible]		26.5	67
	3N1	SCE		[illegible],8[illegible]		[illegible]	37
	33R1			40			
32[illegible] 40E-31F1	D		4-27-54	14		[illegible]7	[illegible].2

a. F[illegible]ng.
b. Well being p[illegible]ed.

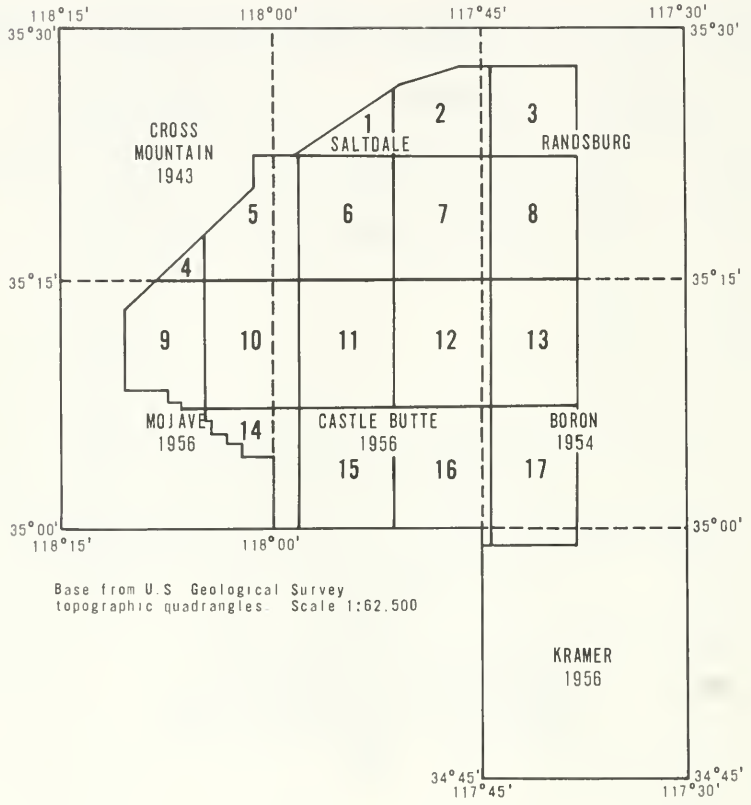
MAPS OF THE FREMONT VALLEY AREA KERN COUNTY, CALIFORNIA

SHOWING GENERALIZED GEOLOGY AND LOCATION OF WELLS AND SPRINGS

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SOUTHERN DISTRICT

FEDERAL-STATE COOPERATIVE
GROUND-WATER INVESTIGATIONS
PREPARED BY U.S. GEOLOGICAL SURVEY
1968

This section consists of explanatory information and 17 page-size maps that show generalized geology and location of wells and springs in the Fremont Valley area. The area covered by each individual map is shown below. A 36- by 42- inch composite of these maps is available on request, at the requestor's expense, from the district chief, U.S. Geological Survey, Water Resources Division, 855 Oak Grove Avenue, Menlo Park, Calif. 94025.



EXPLANATION

UNCONSOLIDATED DEPOSITS

CONSOLIDATED ROCKS

TERTIARY

Tv

Volcanic rocks

Consist of part of the Tropico Group and unnamed volcanic rocks. These rocks are composed of dacite, basalt, rhyolite, and andesite

Tc

Continental sedimentary rocks

Consist of the Goler Formation, the Witnet Formation, the Kinnick Formation, part of the Tropico Group, and the Ricardo Formation. These formations are composed of sandstone, clay, shale, conglomerate, rhyolitic tuff, andesite agglomerate, siltstone, tuffaceous sandstone, limestone, tuff breccia, opal-chert, and some amygdaloidal basalt in thin beds. Yield small quantities of water to wells

PRE-TERTIARY

pTb

Basement complex

Consists of igneous and metamorphic rocks. Yields small quantities of water from joints and weathered zones

MAP SYMBOLS

Fault

Dashed where approximately located, dotted where concealed, questioned where doubtful. U, upthrown side; D, downthrown side. Arrows indicate direction of lateral movement

Public-supply, industrial, or irrigation well

Flowing spring

Domestic, stock, or unused well

Flowing well

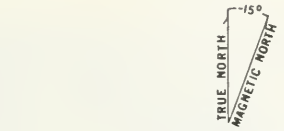
Dry or destroyed well

Letter after well indicates position in section thus:

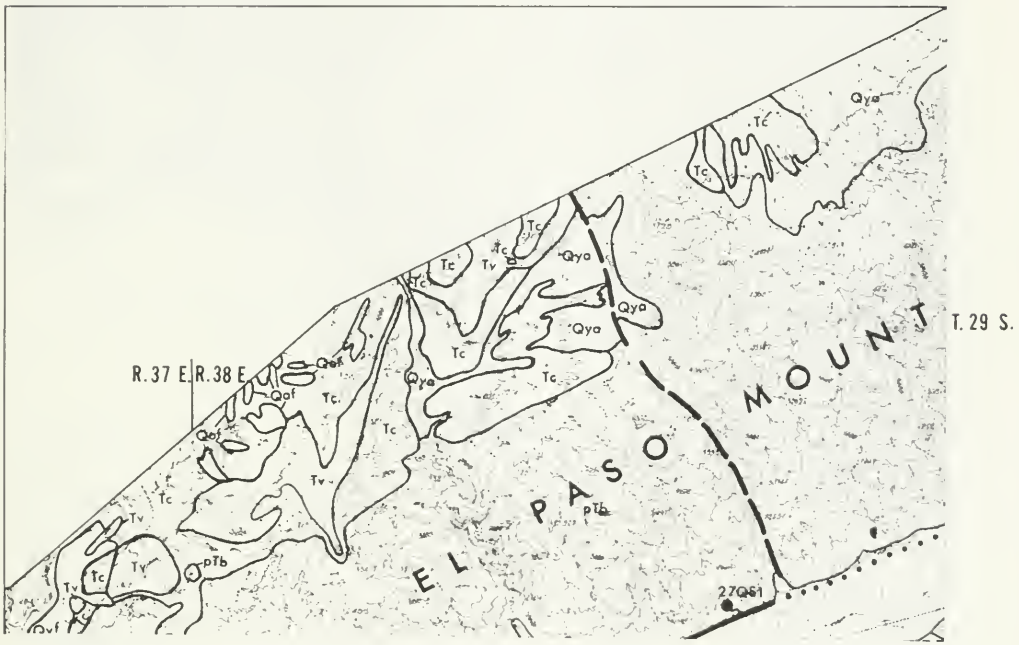
D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

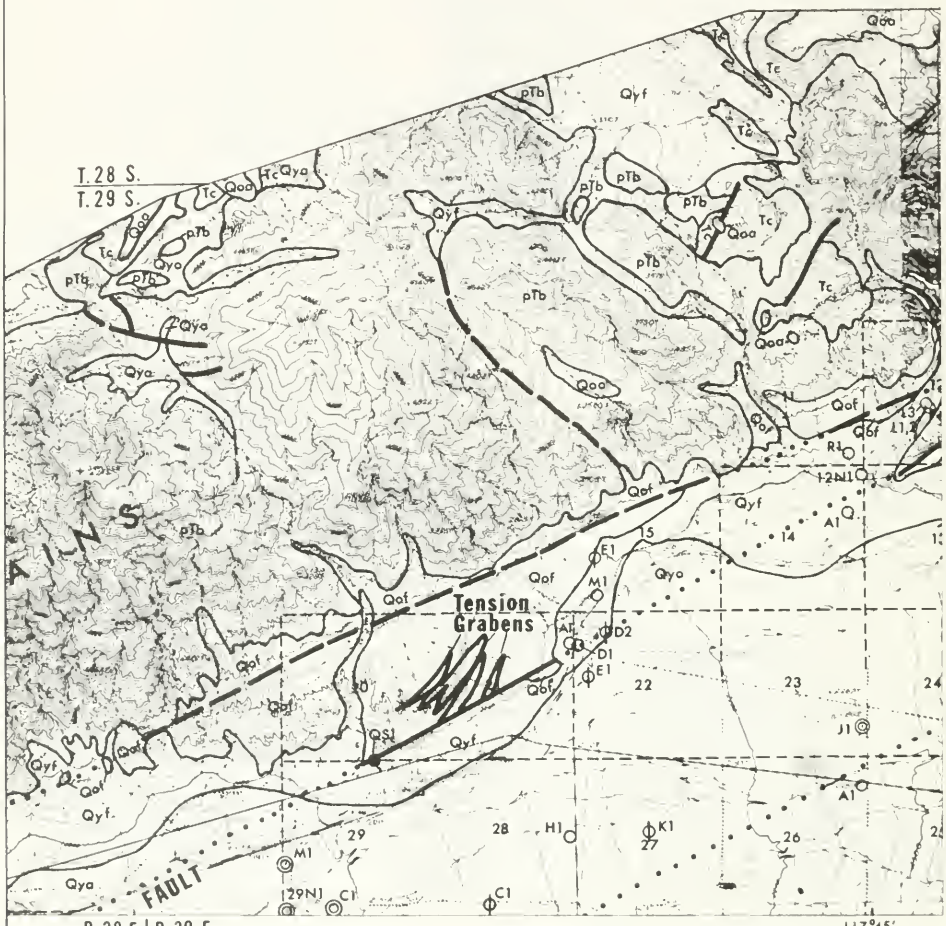
See text for complete description

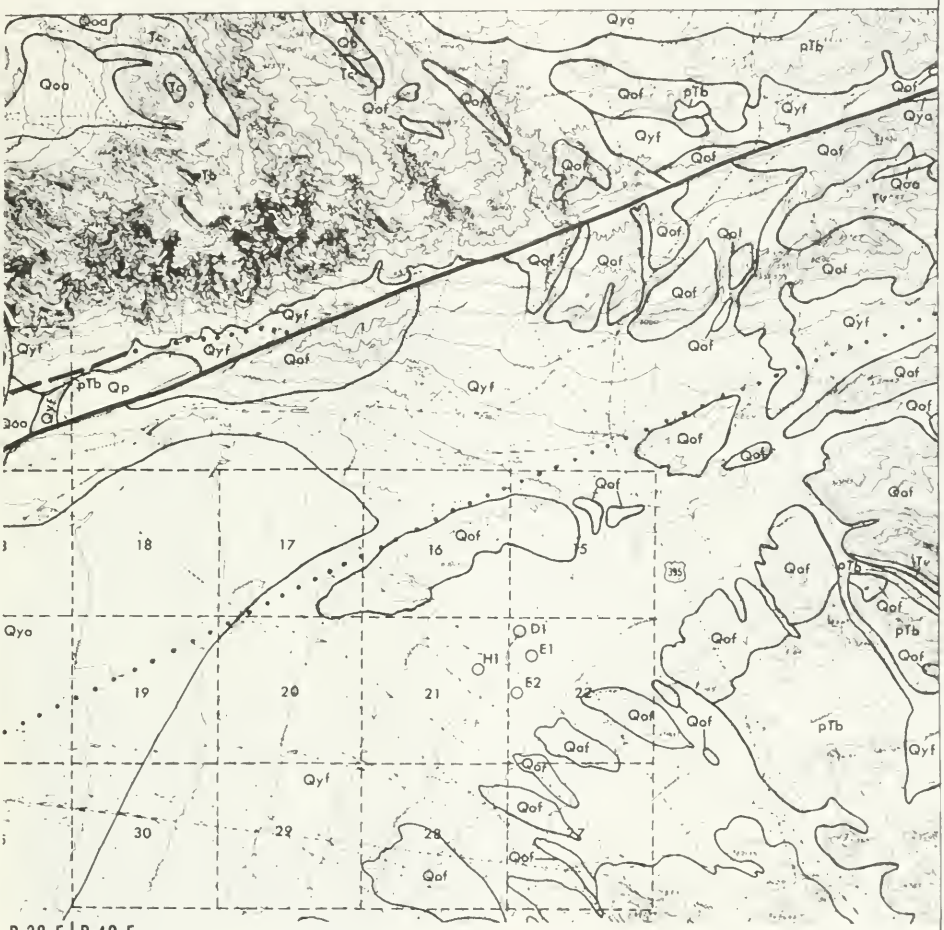
Geology compiled and generalized by W.R. Moyle, Jr., from mapping by T.W. Dibblee, Jr. The location of wells and springs by L.C. Dutcher, J.S. McLean, W.R. Moyle, Jr., and others, 1966-67



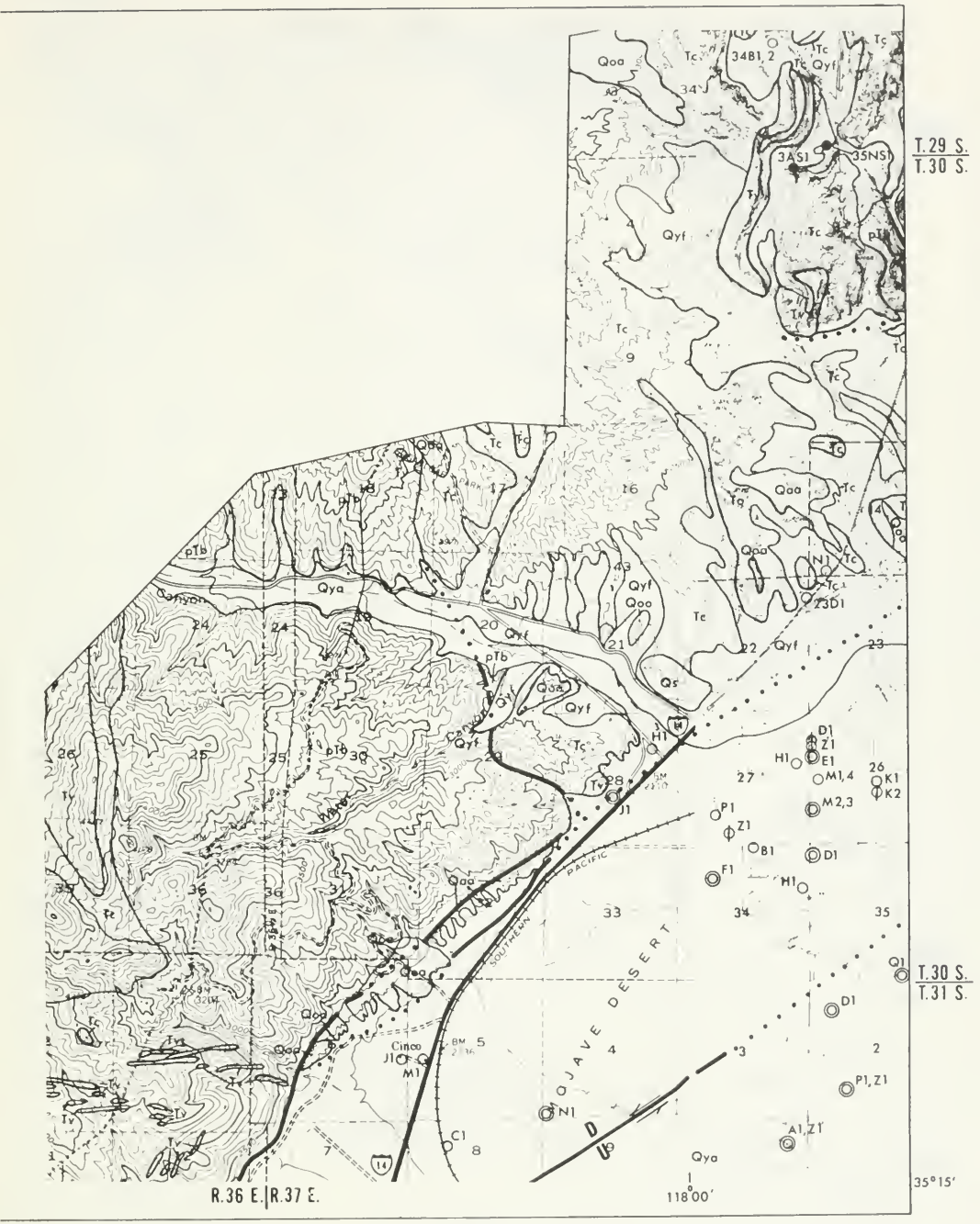
MAP 1

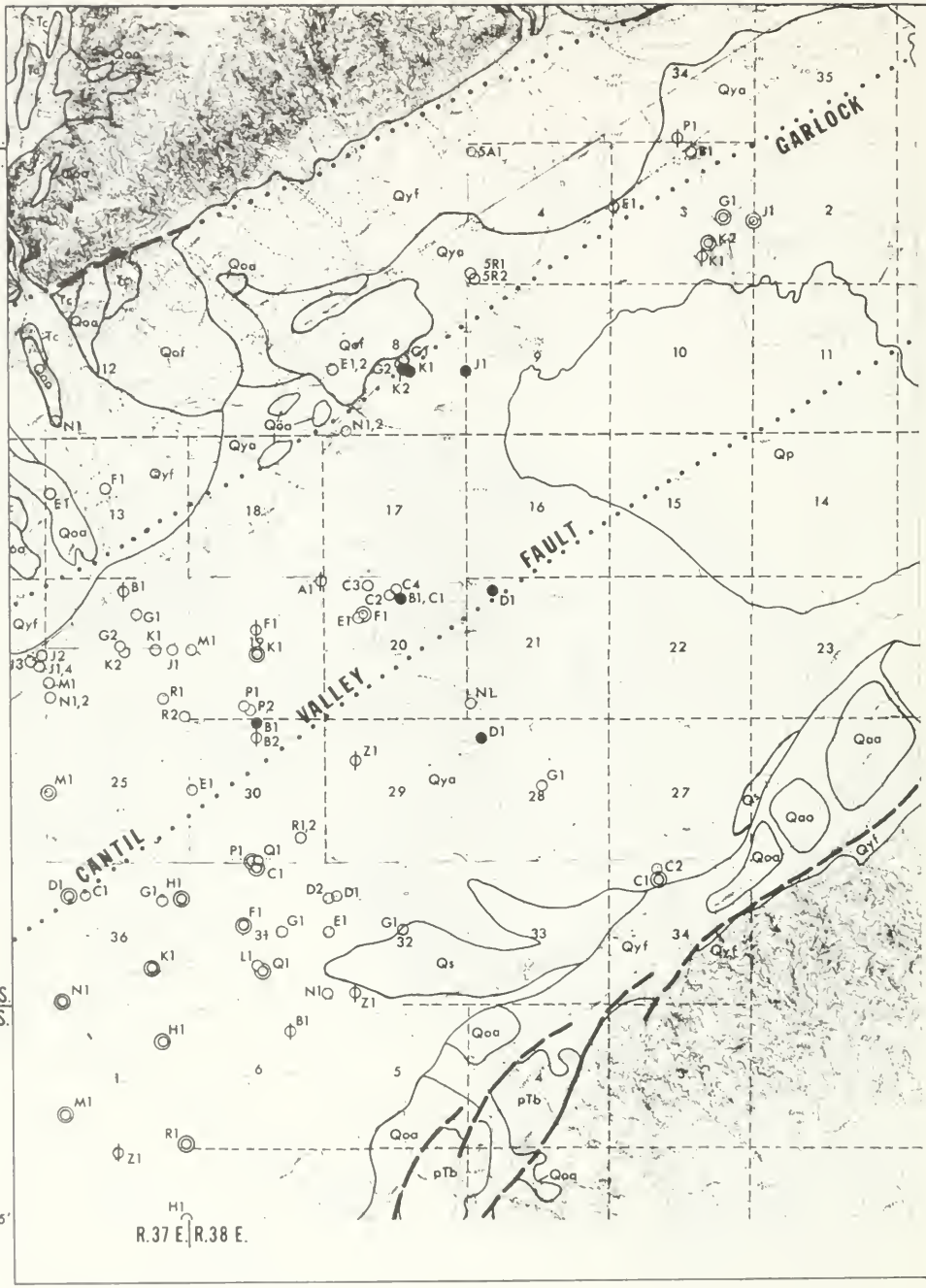


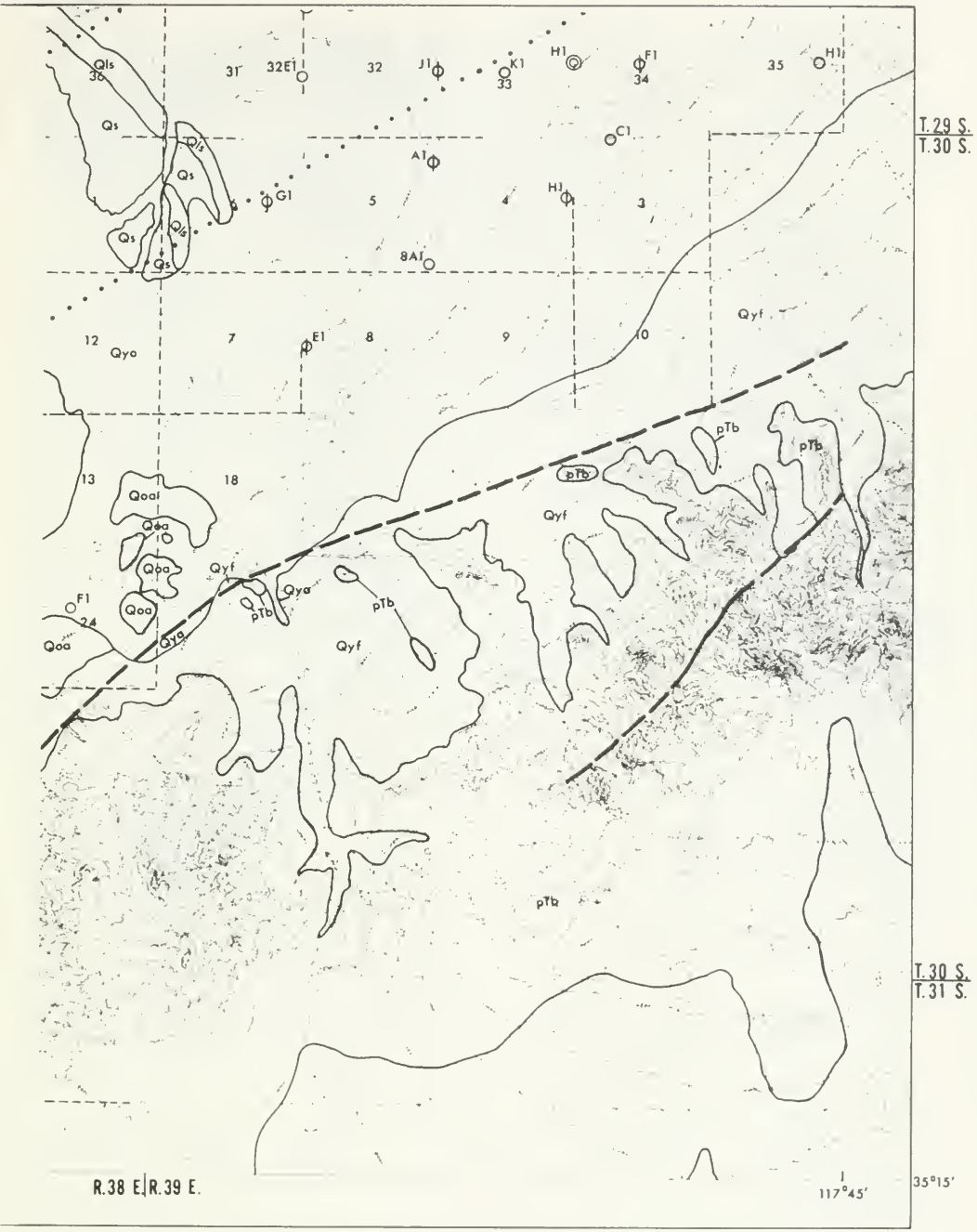

T. 28 S.
T. 29 S.
Tension Grabens
FAULT
R. 38 E.
R. 39 E.
117°45'


Qoa
Tc
Qb
Qya
pTb
Qoo
Tq
Qof
Qyf
Qaa
Tv
T.28 S.
T.29 S.
Qp
18
17
16
15
19
20
21
22
30
29
28
D1
E1
H1
E2
395
R.39 E.
R.40 E.


T. 30 S.
T. 31 S.
Tg
Te
Tv
Chuckwalla
Mountain
Tc
pTb
35°15'


T. 29 S.
T. 30 S.
T. 30 S.
T. 31 S.
R. 36 E.
R. 37 E.
118°00'
35°15'
MOJAVE DESERT
SOUTHERN PACIFIC
Cinco
Qoa
Qya
Qyf
Tc
Tv
pTb
Qs
Canyon

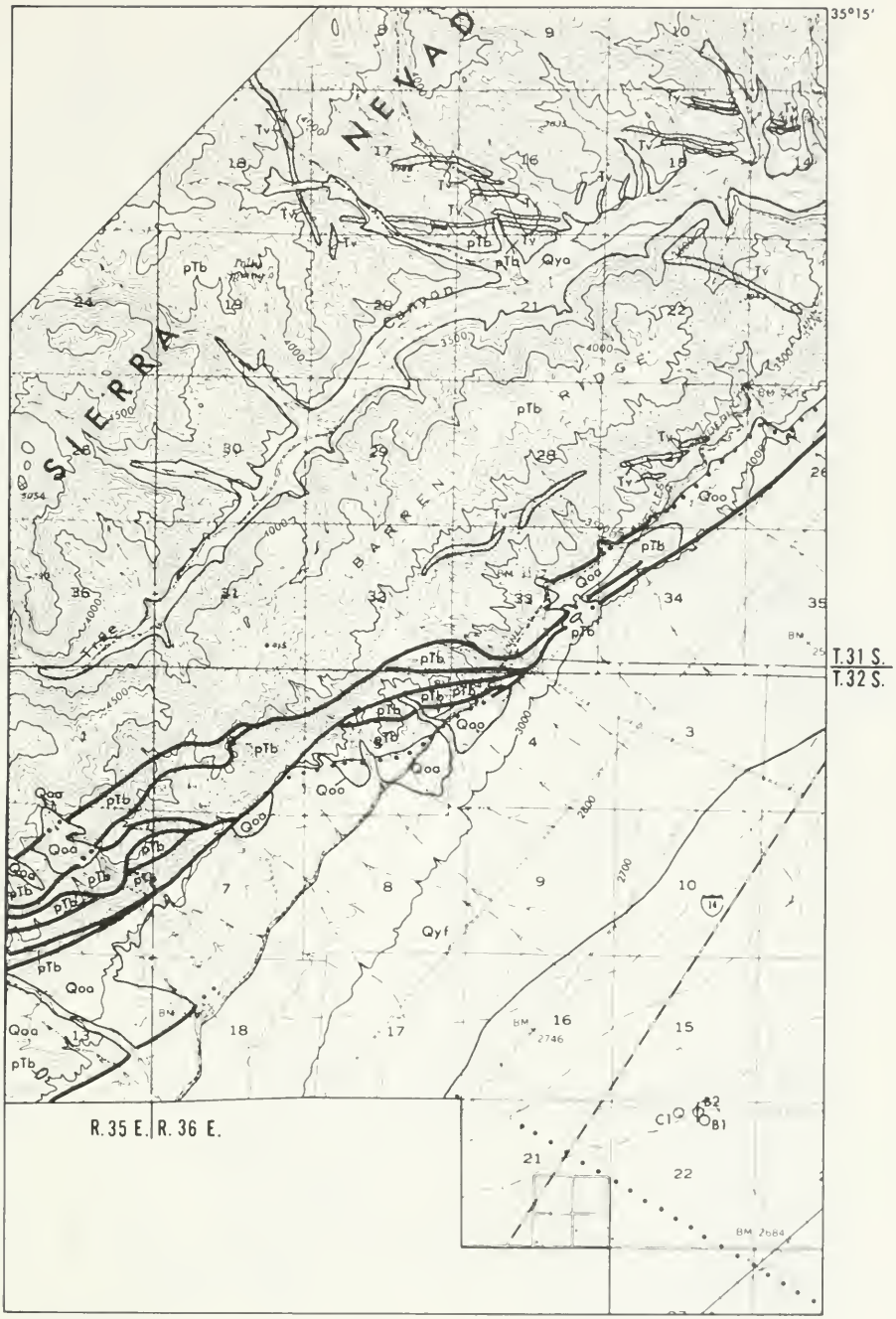

T.29 S.
T.30 S.
T.30 S.
T.31 S.
35°15'
R.37 E.
R.38 E.
GARLOCK
FAULT
VALLEY
CANTIL
Qya
Qyf
Qoa
Qof
Qp
Qs
pTb
Tc
Qoq


T. 29 S.
T. 30 S.
T. 30 S.
T. 31 S.
R.38 E.
R.39 E.
117°45'
35°15'
Qls
Qs
Qyo
Qyf
Qyα
Qoa
Qoa1
pTb
31
32
33
34
35
36
5
4
3
7
8
9
10
12
13
18
24
E1
F1
G1
H1
J1
K1
A1
C1
8A1

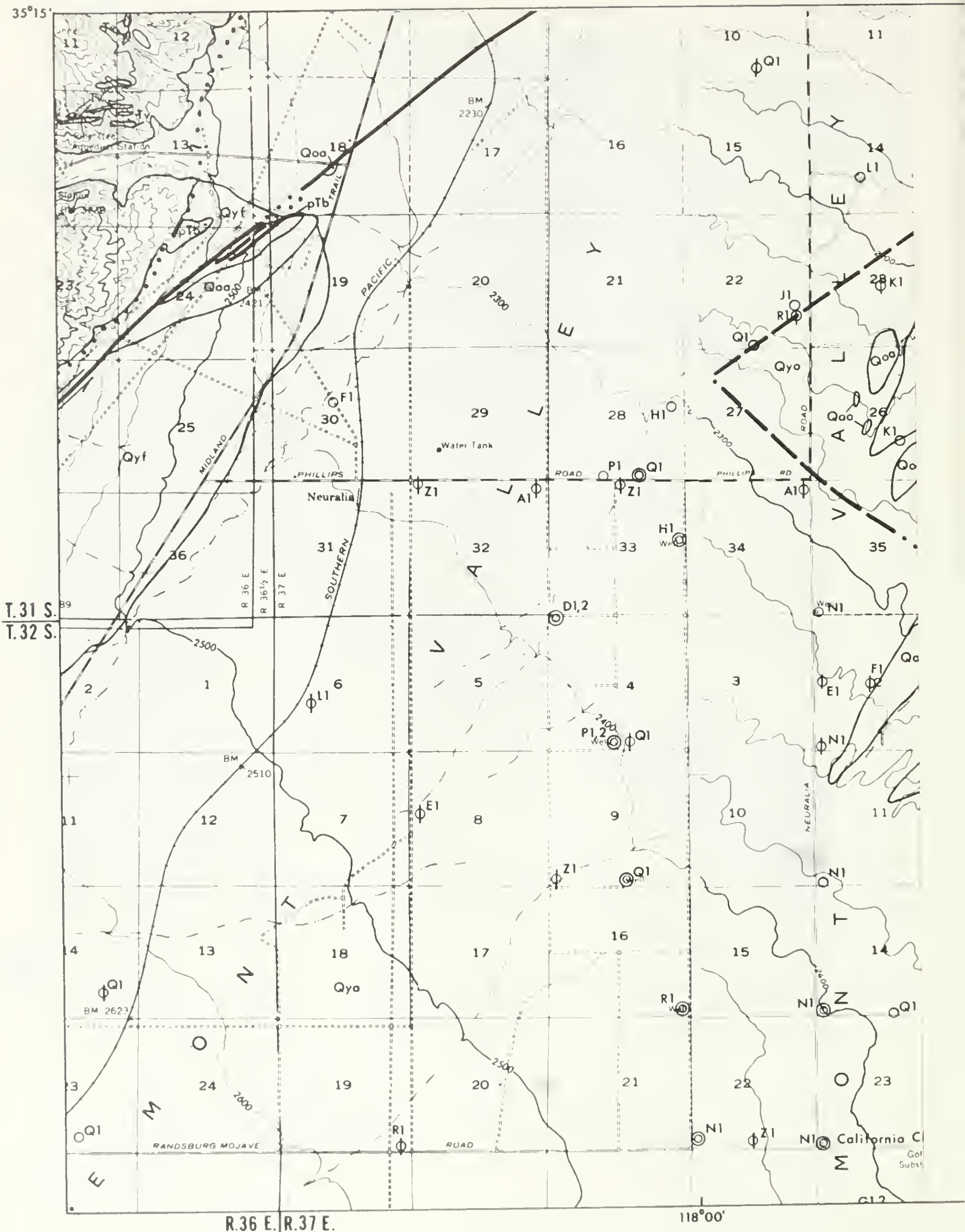
MAP 8


T. 29 S.
T. 30 S.
T. 30 S.
T. 31 S.
35°15'
R.39 E.
R.40 E.
RAND MOUNTAINS
Randsburg
Qyf
Qof
pTb
Qya
Qoo
Tv

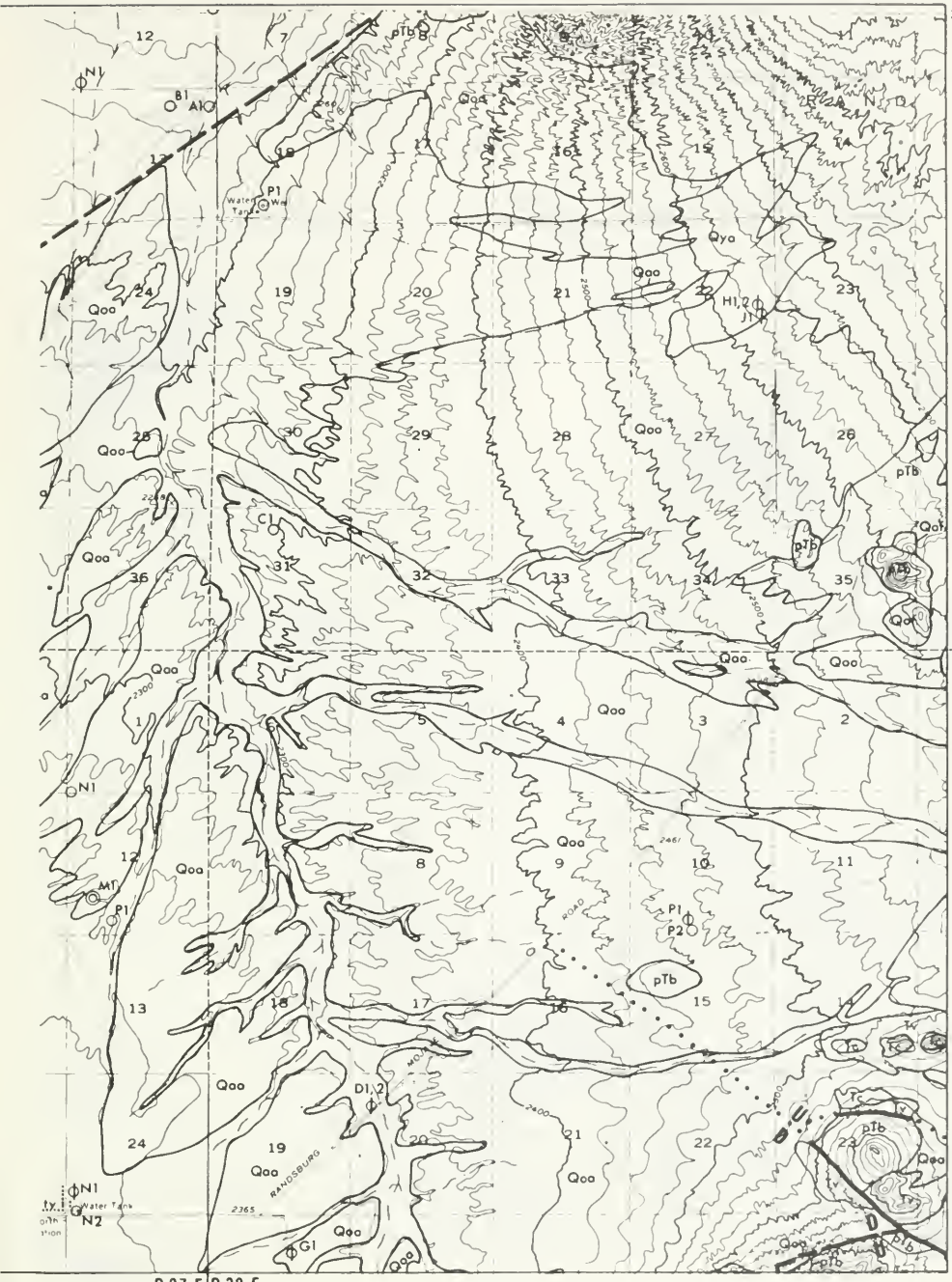
MAP 9

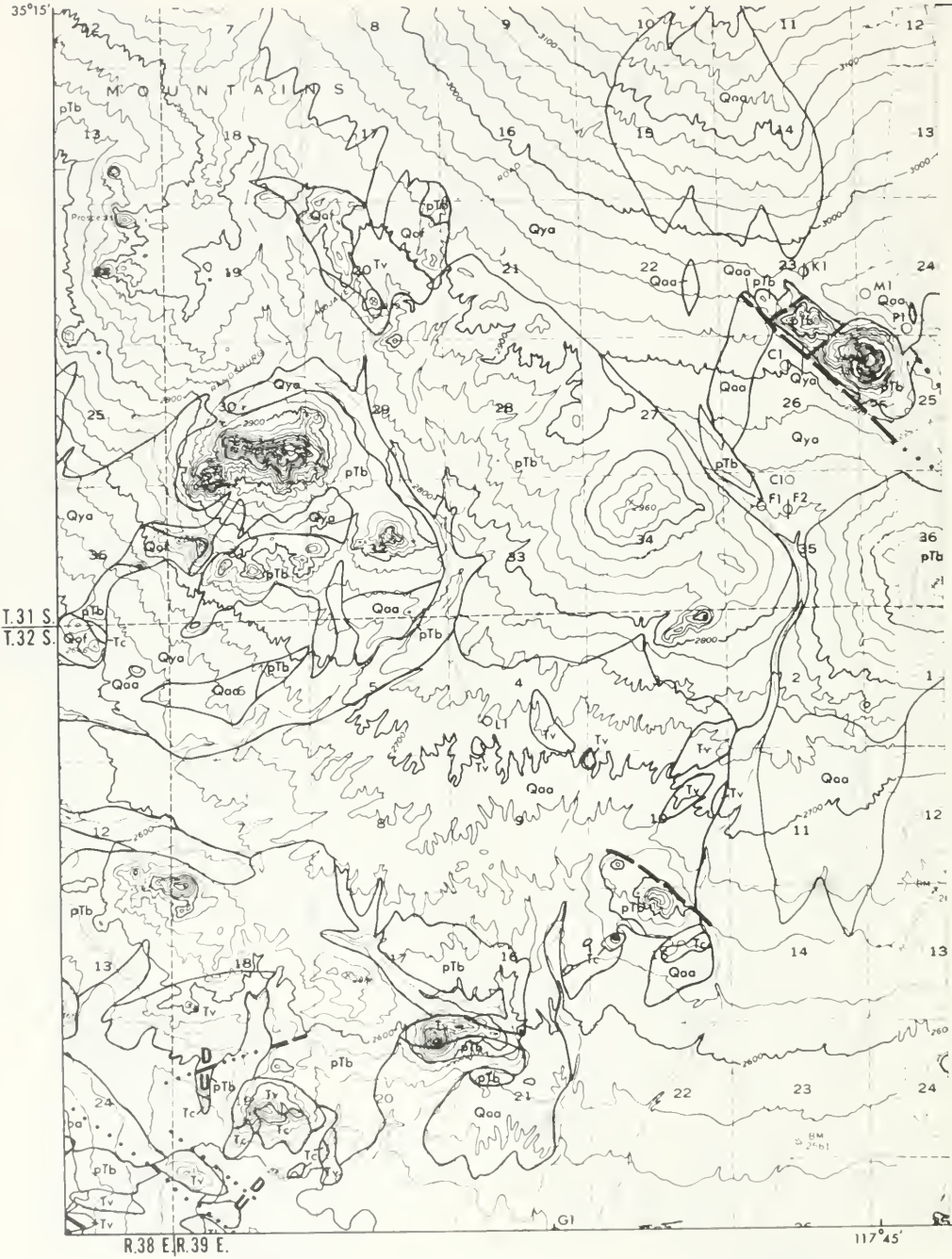

35°15'
SIERRA NEVADA
BARREN RIDGE
T.31 S.
T.32 S.
R.35 E.
R.36 E.
pTb
Qoa
Qya
Qyf
Tv
Qoo
BM 2746
BM 2684
14

MAP 10

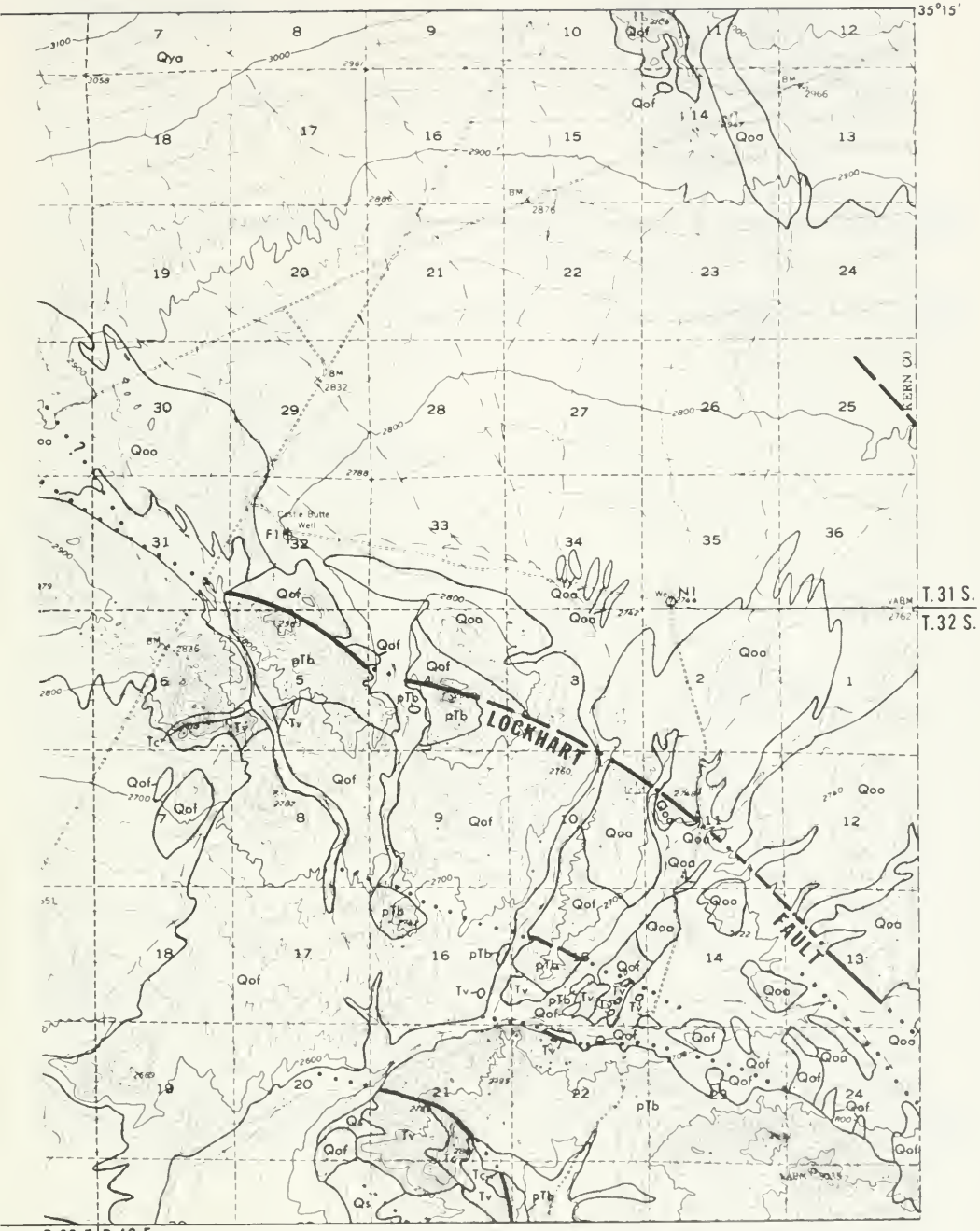


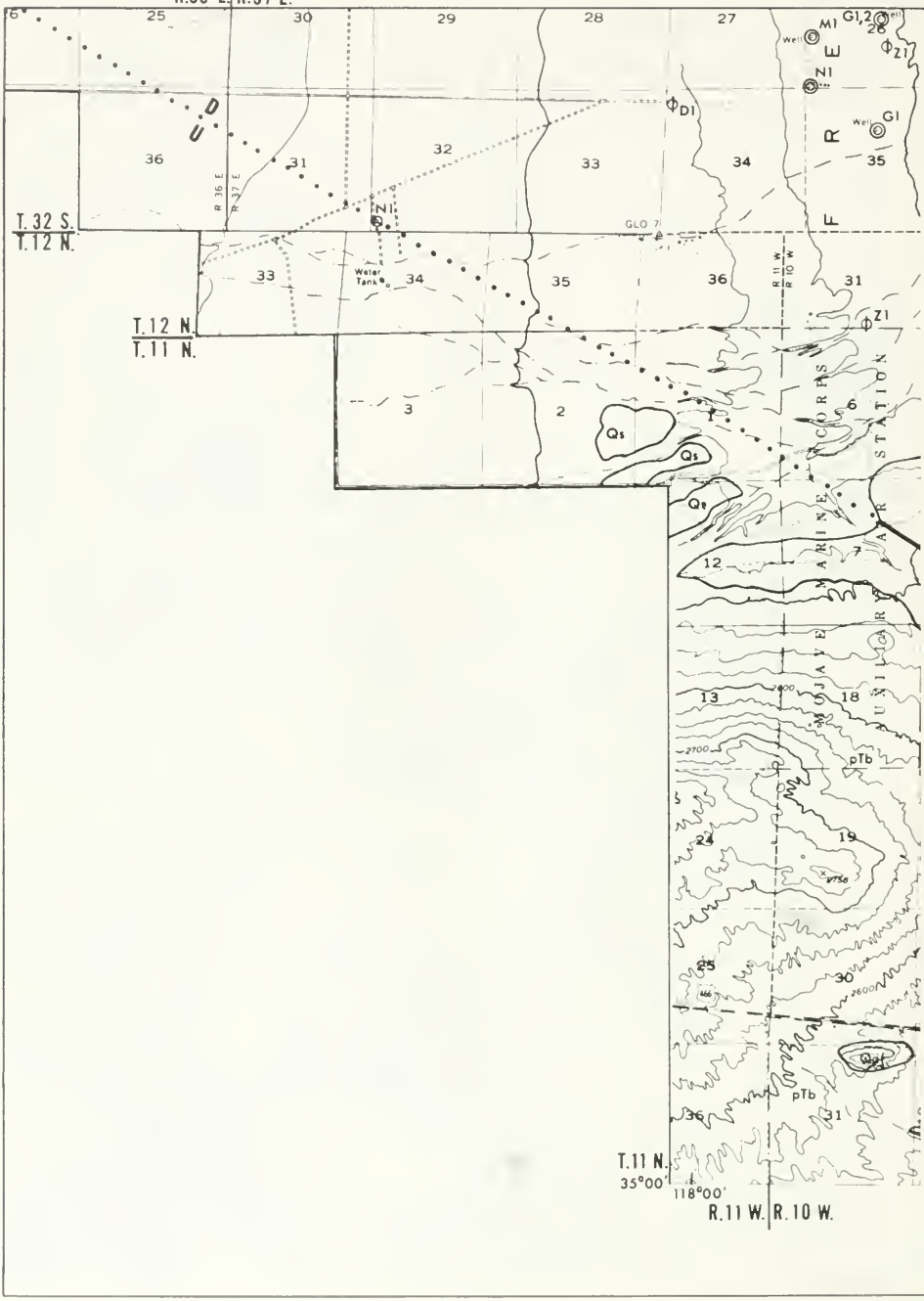
35°15'
T.31 S.
T.32 S.
R.36 E.
R.37 E.
118°00'
Qoa
Qyf
Qyo
pTb
TRAIL
PACIFIC
MIDLAND
SOUTHERN
PHILLIPS
ROAD
PHILLIPS RD
Neuralia
Water Tank
RANDSBURG MOJAVE
ROAD
NEURALIA
ROAD
California C
R 36 E
R 36½ E
R 37 E
A N T E L O P E
V A L L E Y

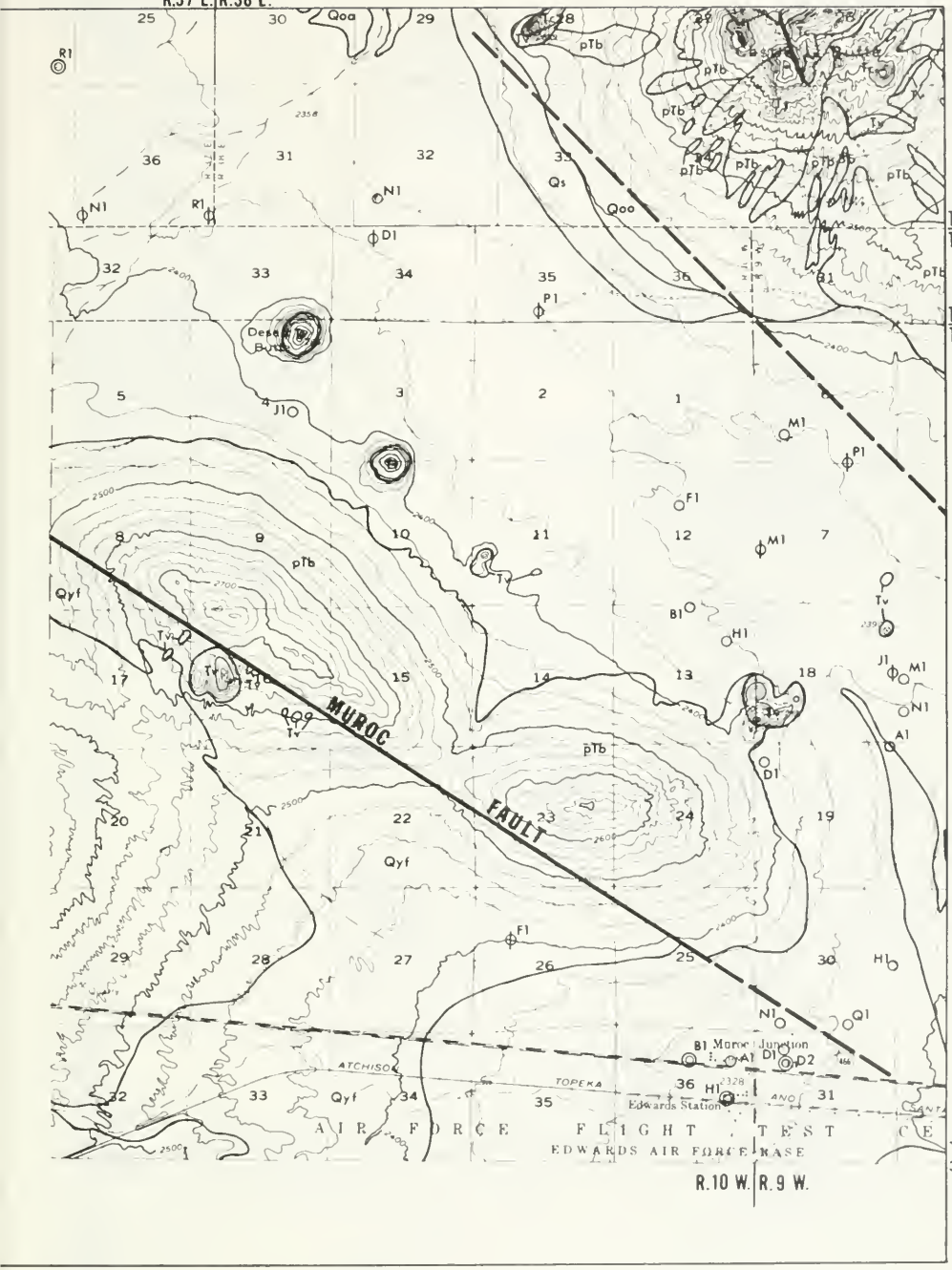

35°15'
T. 31 S.
T. 32 S.
R.37 E.
R.38 E.
Qoo
Qya
pTb
Water Tank
RANDSBURG
ROAD

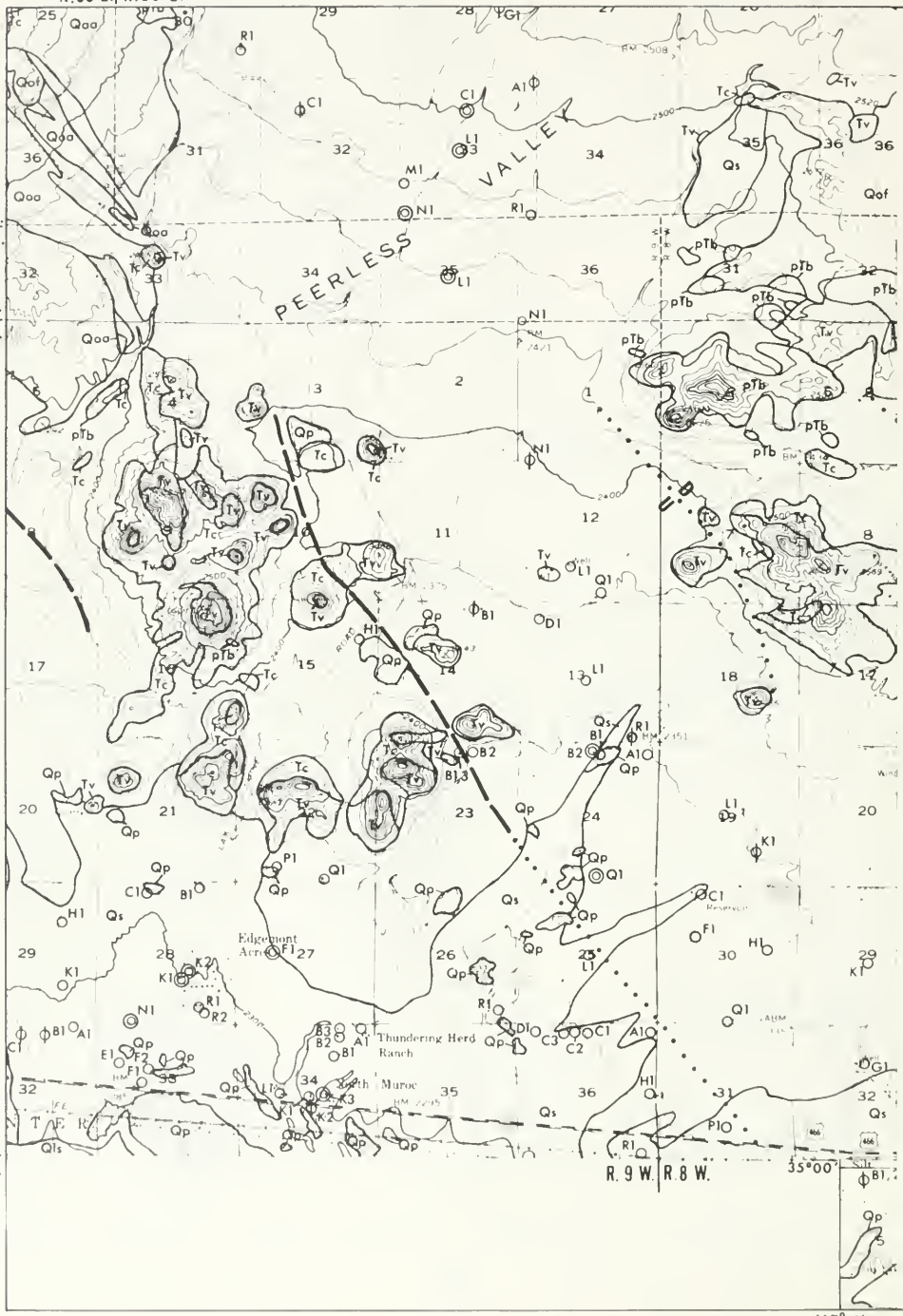

35°15'
M O U N T A I N S
T. 31 S.
T. 32 S.
R. 38 E.
R. 39 E.
117°45'
Qaa
Qya
Qof
pTb
Tv
Tc
Qoa
K1
M1
P1
C1
C10
F1
F2
G1
D1

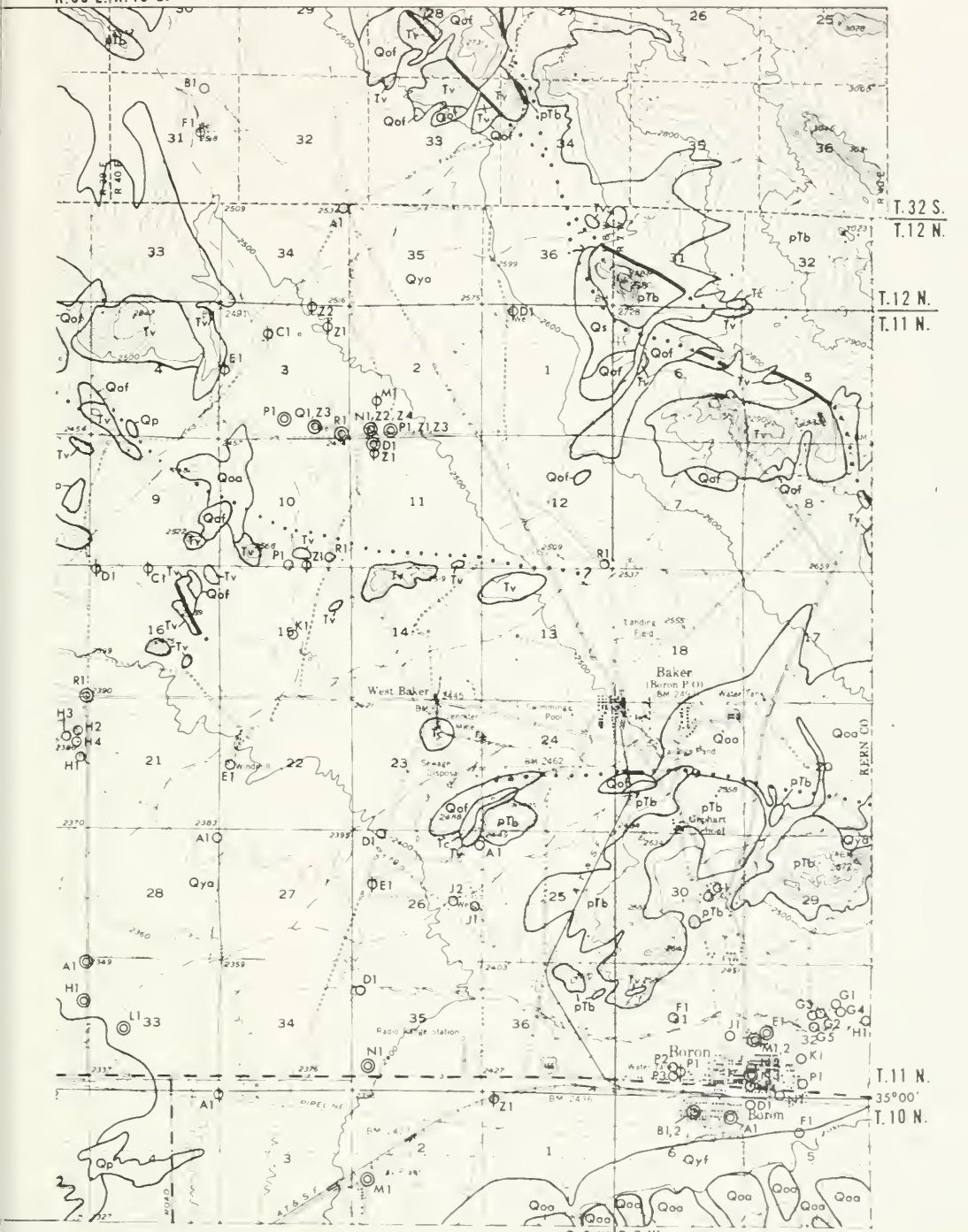
MAP 13


35°15'
T. 31 S.
T. 32 S.
R. 39 E.
R. 40 E.
LOCKHART
FAULT
KERN CO
Qoa
Qof
Qya
pTb
Tv
Ts
Tc
Qs
Cane Butte Well
F1
F2


R.36 E.
R.37 E.
T. 32 S.
T. 12 N.
T. 12 N.
T. 11 N.
T. 11 N.
R. 11 W.
R. 10 W.
35°00'
118°00'
MARINE CORPS AIR STATION
MOJAVE
EDWARDS AIR FORCE BASE
Water Tank
GLO
Qs
Qal
pTb
M1
G1,2
N1
G1
Z1
D1


R.37 E.
R.38 E.
T.32 S.
T.12 N.
T.12 N.
T.11 N.
R.10 W.
R.9 W.
MUROC FAULT
Desert Butte
Edwards Station
Monroe Junction
AIR FORCE FLIGHT TEST CE
EDWARDS AIR FORCE BASE
ATCHISON
TOPEKA
Qyf
Qoa
Qoo
Qs
pTb
Tv
Tc


R.38 E.
R.39 E.
T. 32 S.
T.12 N.
T.12 N.
T.11 N.
T.11 N.
T.10 N.
R.9 W.
R.8 W.
PEERLESS VALLEY
Edgemont Acres
Thundering Herd Ranch
35°00'
117°45'


R.39 E.
R.40 E.
T.32 S.
T.12 N.
T.12 N.
T.11 N.
T.11 N.
35°00'
T.10 N.
R.8 W.
R.7 W.
Baker
West Baker
Boron
Qoa
Qof
Qya
Qyo
Qyf
Qp
Qs
Tv
pTb
KERN CO.