COLLECTION OF HYDROLOGIC DATA
EASTSIDE ROSWELL RANGE EIS AREA
NEW MEXICO

by

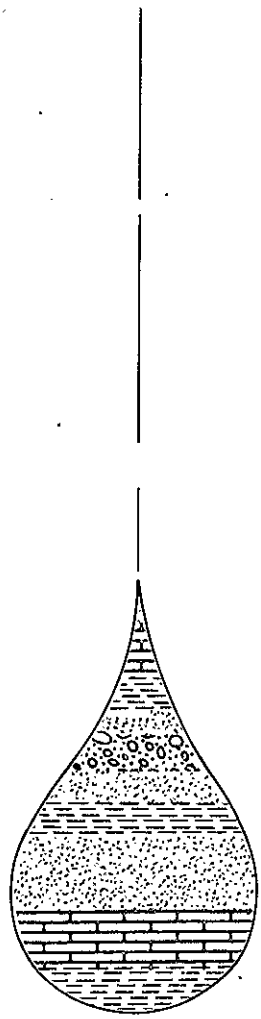
Geohydrology Associates, Inc.

for

BUREAU OF LAND MANAGEMENT

Denver, Colorado

Contract No. YA-512-CT7-217



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June 1978

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INTRODUCTION

The Eastside Roswell Range Environmental Impact Statement (EIS) area encompasses 2,279,305 acres of private, state, and federal land in southeastern New Mexico. The area includes all of Lea County and Eddy and Chaves Counties east of the Pecos River.

The Bureau of Land Management (BLM) has primary jurisdiction for the management of all federal land within this area. To comply with the National Environmental Policy Act of 1969, hydrologic data were required for an environmental impact statement. Responsibility for collecting and analyzing the hydrologic data was granted to Geohydrology Associates, Inc., of Albuquerque, N. Mex., under contract number YA-512-CT7-217. All work was performed by employees of the contractor or its authorized sub-contractors. Mr. Howard Gebel, Bureau of Land Management, Roswell District Office, was the Contracting Officer's Authorized Representative. The project was started in October 1977, and was completed in June 1978.

The Statement of Work for this study required the contractor to:

1. Gather surface-water and ground-water quantity data through a literature search and field observations.

2. Gather surface-water and ground-water quality data through a literature search and field sampling.

3. Relate the quantity and quality data to requirements of potential water users.

4. Evaluate and use existing data as needed.

This report contains tabulated data collected to fulfill these objectives. An evaluation and interpretation of the data is included. In most phases of the project, more data were collected than required by the Statement of Work in order to make the interpretations required by the BLM. All raw data collected as part of this study is considered to be the property of the BLM and is included in this report.

Much of the data used in this report was obtained from the Water Resources Division of the U. S. Geological Survey and the Office of the New Mexico State Engineer. Both agencies use the same system of numbering and locating wells and to expedite use of these data, this system has been used in this report. It is based on the common subdivision of sectionized land. Each well is assigned a number divided into four segments (fig. 1). The first segment indicates the township south of the New Mexico base line. The second segment indicates the range east of the New Mexico principal meridian. The third segment indicates the section number. The fourth segment of the well number consists of three or more digits which indicate the particular 10-acre tract in which the well is located.

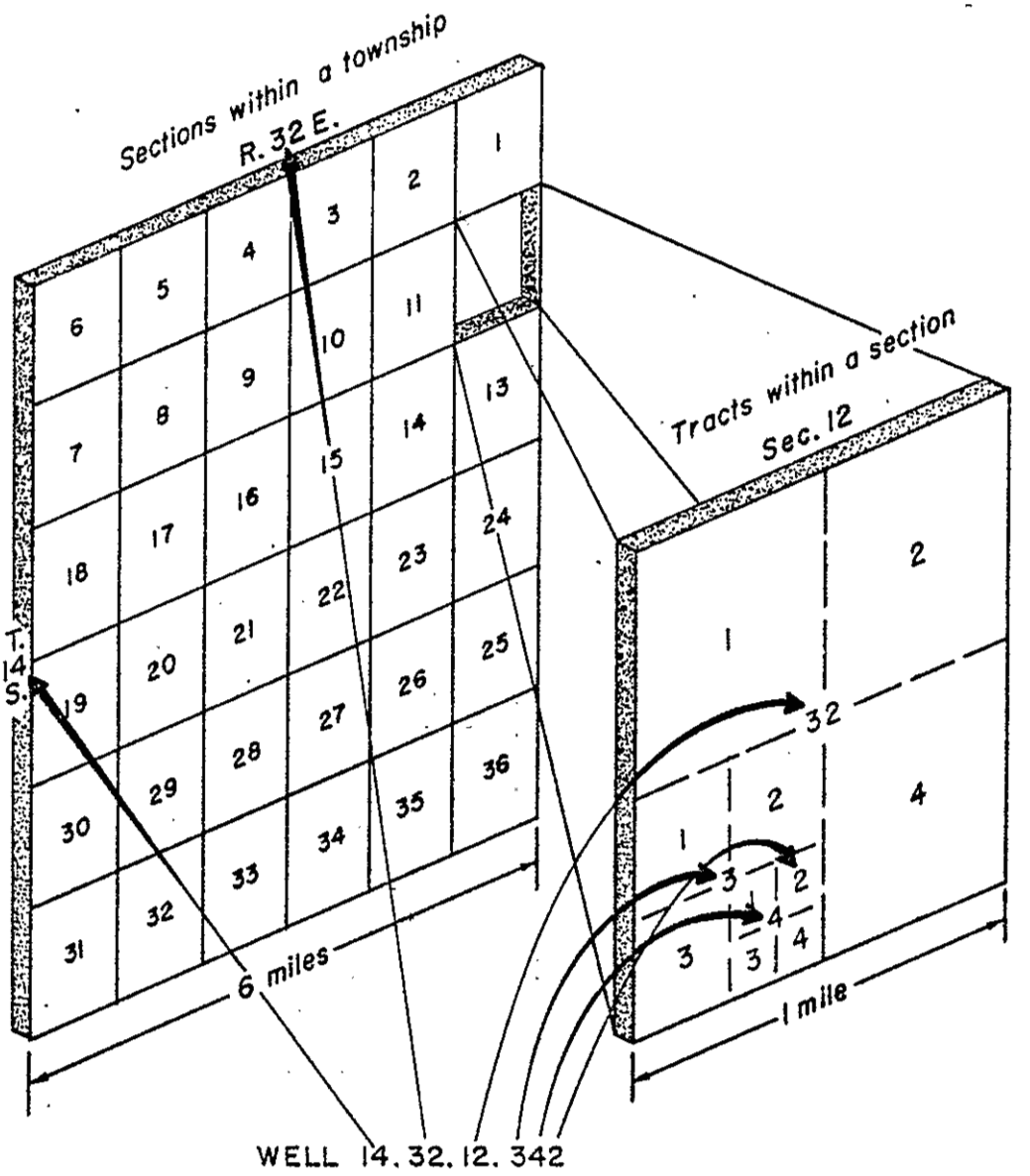


Figure 1.--System of numbering wells in New Mexico.

SURFACE WATER

Drainage Basins

Approximately 700 square miles, or 20 percent, of the Eastside Roswell area are included in integrated drainage basins. These are defined as topographic basins that are occupied by clearly defined drainage channels that (1) are tributary to larger, perennial streams, or (2) display evidence of periodic streamflow into closed basins. Most of the project area has either internal drainage or no integrated drainage at all. For the purpose of this study, two separate topographic areas are recognized: the Lea Plateau and the Pecos River Basin (fig. 2).

The Lea Plateau includes that part of the study area above Mescalero Ridge, a prominent topographic feature that generally follows the Chaves and Eddy County lines southward to west-central Lea County, then southeastward to Texas. The Lea Plateau is part of the High Plains or Llano Estacado. On the Lea Plateau, most of the rainfall run-off is caught in shallow depressions where it remains until it seeps into the ground or evaporates. During this project, October 1977 through March 1978, no run-off occurred in this area.

Most of the Eastside area is included in the Pecos River Basin. This name is somewhat misleading because most of the area is undrained. The western edge of this area is dissected by short arroyos draining into the Pecos River, but this dissected belt is narrow. None of the arroyos drain more than a few square miles.

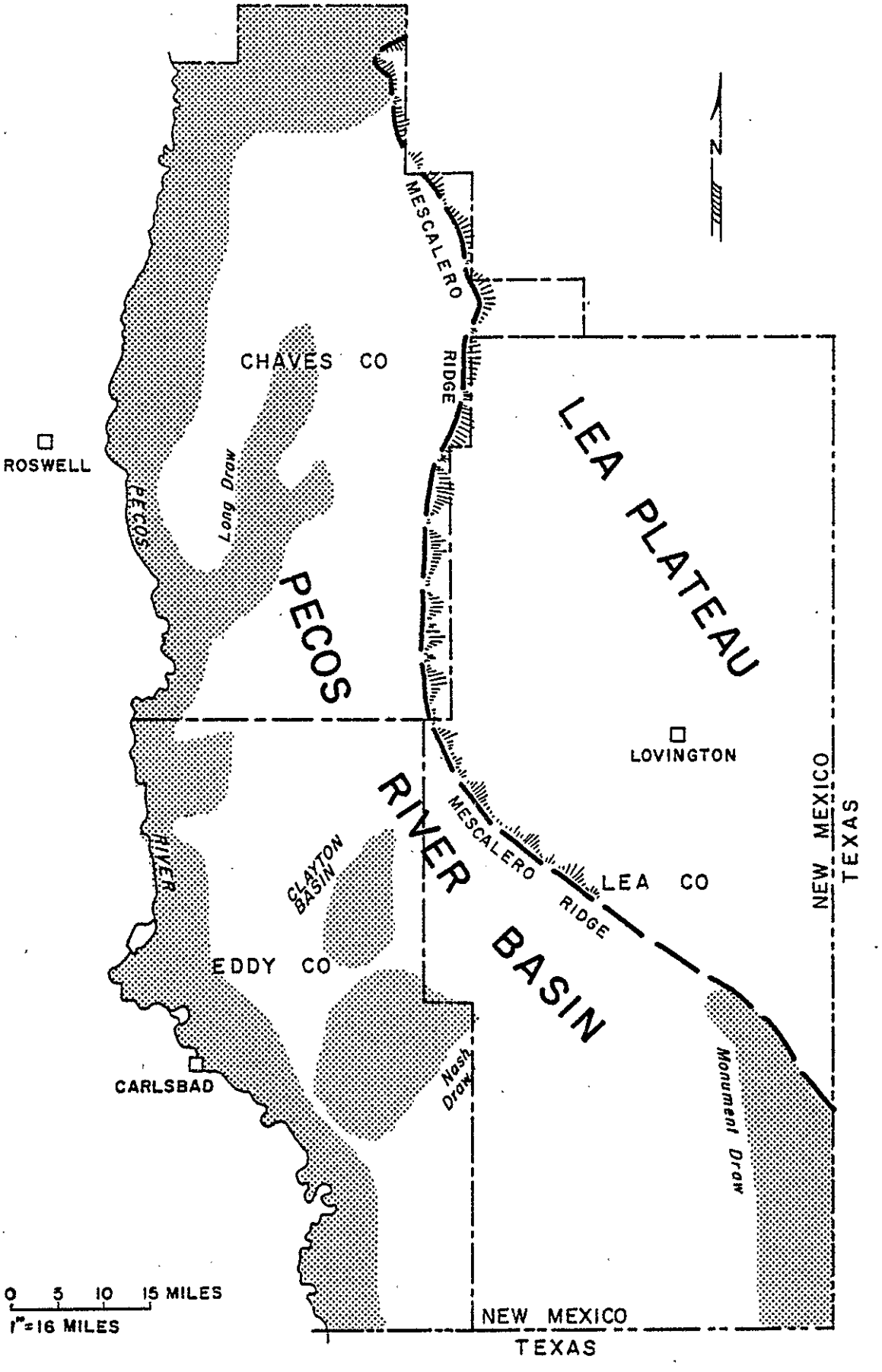


Figure 2.--Eastside Roswell area showing major drainage basins.

The higher part of the Pecos River Basin is characterized by numerous depressions ranging in size from less than 1 square mile to more than 100 square miles. In Eddy County, the two largest depressions are Clayton Basin and Nash Draw (fig. 2). These two depressions have a combined area of more than 100 square miles and form a nearly continuous depression from north-central Eddy County to Salt Lake.

The undrained areas of the Pecos River Basin have been named by various workers. These areas include the Querecho Plains, Eunice Plain, and San Simon Swale in Lea County (Nicholson and Clebsch, 1961). In Eddy County, the Mescalero pediment and James dune area have been described by Hendrickson and Jones (1952). These interbasin areas are generally characterized by isolated potholes and depressions, dune sands, and caliche terraces. There is virtually no integrated drainage except short arroyos draining Mescalero Ridge and the flanks of Clayton Basin and Nash Draw.

A thorough evaluation of all drainage basins in the Eastside area was made during this study. These basins and their drainage areas are shown in figures 3, 4, and 5. Most of these drainages are occupied by "underfit" channels, i.e., the drainage system was eroded by a stream larger than the channel that remains (Thornbury, 1958, p. 156). Therefore, drainage systems in the Eastside area represent climatic conditions which no longer prevail. Three excellent examples are Long Arroyo in south-central Chaves County, Monument Draw in southeastern Lea County, and Dagger Draw in Eddy County.

Long Arroyo has a total drainage basin of more than 90 square miles and is locally as much as 75 feet deep. Although much of this basin is heavily grazed by livestock and is susceptible to erosion, there is no clearly defined channel except in the upper reaches. Monument Draw is a well-defined and sharply incised drainage system more than 40 miles long and locally as much as a mile wide. Although the channel has been eroded to a depth of about 30 feet, there is no through drainage. The draw is partially filled with dune sand and alluvium and is overgrown locally with vegetation. Dagger Draw in Eddy County has a drainage basin of 16 square miles; however, the central part of the basin is pocked by sinkholes and there is no evidence of through drainage. In its upper reaches, short, wide drainage channels end in open sinkholes into which storm run-off is lost.

Climatic Conditions

The amount of water flowing over the surface of the earth is a direct response to climatic and geologic conditions prevailing in any given area. A number of factors are involved, including precipitation, temperature, evaporation, soil permeabilities, and vegetation. The interaction of these and other factors determine the amount and type of surface water in an area.

Long-term climatic changes, though subtle, have been documented since earliest recorded history (Flint, 1957, p. 481). In the Eastside Roswell area precipitation and temperature are the only meteorological parameters for which accurate long-term records are available.

Published precipitation records are available (from the U. S. Weather Bureau) for 25 stations in the vicinity of the Eastside area. These records were used to map mean annual rainfall in Chaves, Eddy, and Lea Counties (fig. 6). Average annual rainfall and years of record for each station are given in Table 1.

Long-term records for most stations in the area show a slight but distinct decline in precipitation for the period of record. This is particularly pronounced for Roswell where precipitation records have been kept since 1878. At Roswell, average annual precipitation from 1881 through 1890 was 19.3 inches; from 1967 to 1977 the average was only 12.68 inches. Similar declines have been recorded at weather stations in Artesia, Carlsbad, and Jal, although the period of record is shorter at these stations. Temperature records indicate that average annual temperature has increased and evaporation has increased correspondingly in Roswell over the last century. Effects of these changes in precipitation, temperature, and evaporation on stream regimen in New Mexico has been recorded by Renick (1926, p. 131) and Trauger (1972, p. 45).

Rainfall-Run-off Relationships

The climate of the Eastside Roswell area is characterized by low annual precipitation, low humidity, and high annual temperature and evaporation. Historically, the climate has ranged from dry subhumid to arid; however, the area is generally classified as marginal semiarid to arid (Thornthwaite, 1941).

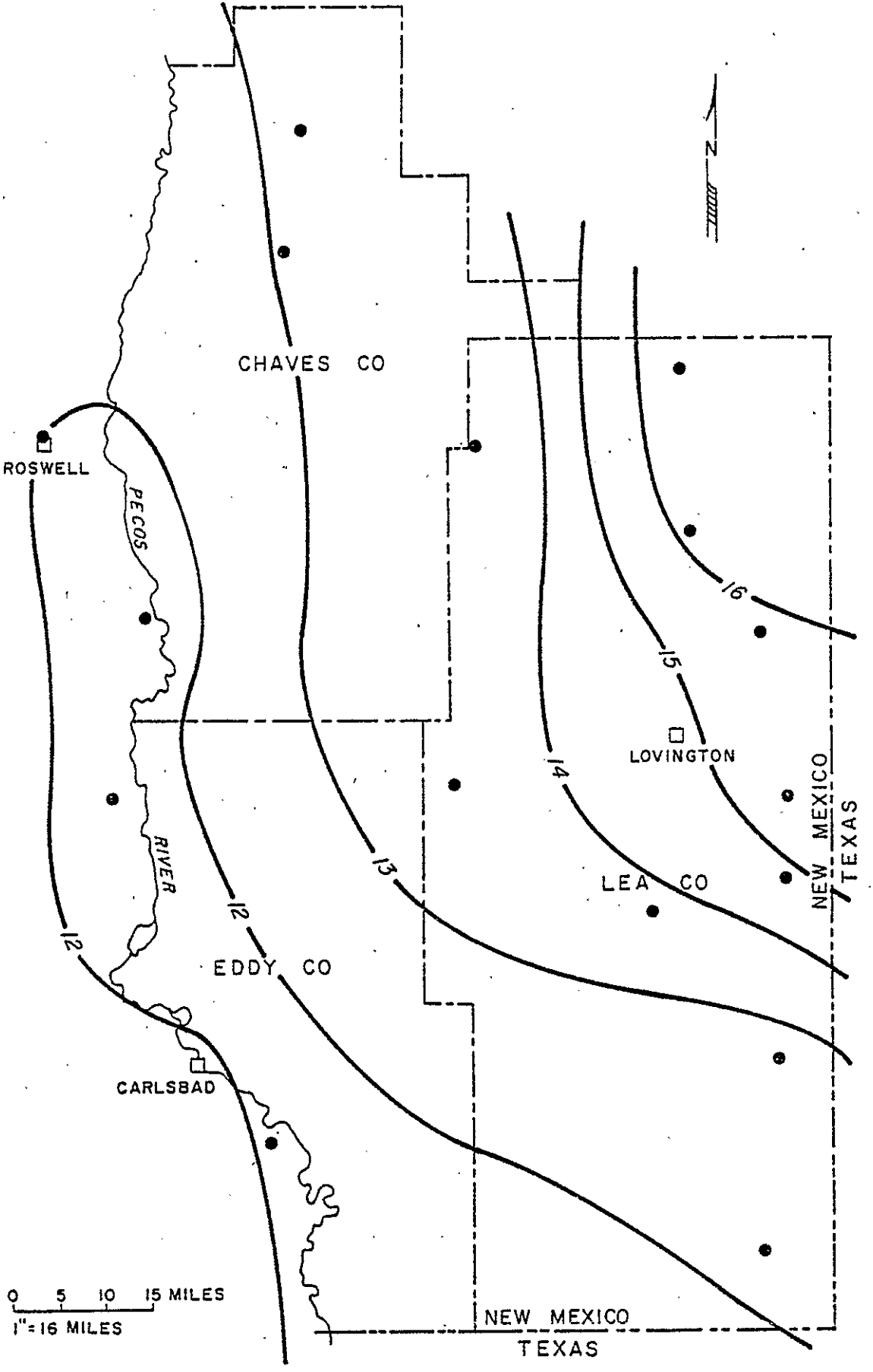


Figure 6.--Mean annual precipitation in inches for Eastside Roswell area. Dots represent precipitation measuring stations. Periods of record are given in Table 1.

Table 1.--Average Annual Precipitation (since 1900) for stations in and near the Eastside area.

Station	Average Precipitation in inches	Years for which data are available (1977: Jan.-Sept.)
LEA COUNTY		
Caprock	13.07	1941, 1943, 1945-47, 1952-54
Crossroads	16.40	1930-36, 1940-41, 1949-53, 1955-77
Eunice	12.42	1931-33
Hobbs	14.97	1913-26, 1938-77
Jal	12.45	1920, 1923, 1941-77
Knowles	15.30	1911-15, 1917
Lovington	14.93	1906-08, 1911-15, 1917, 1920-22, 1924-25, 1932-45, 1947, 1949-66
Maljamar	13.75	1947-77
Ochoa	10.95	1943-46, 1949-50, 1953-76
Pearl	13.70	1906-08, 1917, 1919-22, 1927, 1930, 1935-37, 1940-48, 1950, 1952-76
Prairieview	15.74	1912-15, 1920-27, 1930-36, 1939-42, 1944, 1946, 1947
Tatum	16.17	1921, 1923, 1929-44, 1948-65, 1967-77
CHAVES COUNTY		
Bitter Lakes	10.90	1951-77
Elkins	13.03	1910-38, 1946, 1947
Hagerman	11.13	1932-37, 1942-45, 1948-59
Olive	13.23	1910-12, 1921-25
Roswell	12.00	1900-1977
EDDY COUNTY		
Artesia	11.25	1906, 1910-34, 1936-77
Carlsbad	12.58	1902-48, 1951, 1953-77
Carlsbad CAA	10.49	1949-1977
Duval Potash	13.71	1955-67, 1969-77
Lake Avalon	11.41	1915, 1917-76
Lakewood	9.67	1912-15, 1917, 1919-24, 1927
Loving	11.88	1918-19, 1922-29, 1931-36, 1938-45
Otis	11.84	1909-13

Precipitation is highly variable areally and seasonally. Maximum precipitation usually is recorded during the months of May through August. Cyclonic storms which move northward from the Gulf of Mexico along the Rocky Mountain front are the principal source of moisture.

Mode of precipitation is an important factor in determining the amount of run-off in a particular drainage basin. Precipitation falling as rain may produce high run-off, but the same quantity of moisture falling as snow produces little or no run-off. Long-term records show that heavy snowstorms are a rarity in the Eastside area, and there is no evidence to indicate that run-off from snowmelt occurs. This is because soil moisture for most of the region declines during the months of September through early December. When heavy snowfall occurs during the winter months, the moisture is released slowly by sublimation and infiltration.

Storm frequency and intensity are major factors controlling surface run-off in the Eastside area. Rainstorms of high intensity (rate per unit time) may produce high run-off, particularly if the rainfall distribution is concentrated. This is frequently the case for the afternoon thermal thunderstorms characteristic of the High Plains. However, rainfall patterns associated with cyclonic storms from the Gulf are usually more widespread and less intense.

Run-off from both types of rainstorms is common in the Eastside area; however, run-off data from individual watersheds is poorly correlated with specific rainfall events and seasonal precipitation due to the

complete lack of discharge measurements. Such measurements would be extremely difficult to obtain in the Eastside area. Small drainage basins, low annual precipitation, and the "flashy" nature of storm run-off make streamflow measurements difficult.

In the Eastside area the theoretical amount of run-off ranges from about 0.4 inches to 1.05 inches per year (fig. 7), according to the general relationship between annual precipitation and annual run-off for large geographic areas described by Langbein and Schumm (1958). The potential distribution of run-off from the area is shown in figure 8. Most of Lea Plateau has a potential for 1.0 inch or more of run-off, whereas the Pecos River Basin has a potential for less than 1.0 inch. However, this is somewhat misleading, because about 80 percent of the Eastside area has no integrated drainage. Therefore in spite of Lea Plateau's potential for 1.0 inch of run-off, the lack of drainage systems precludes surface run-off. Nash Draw and Clayton Basin receive local run-off to the interior of these closed basins. Only the areas along the east side of the Pecos River have adequate drainage systems to transmit surface run-off out of the Eastside Roswell area.

Effects of Ground Cover on Floods

Changes in flood characteristics resulting from alteration of ground cover have been studied by numerous workers (Bushby and Pomeroy, 1958; Gottschalk, 1962; Osborn, 1964; Lusby and others, 1971). Although a decrease in ground cover usually results in increased run-off, the

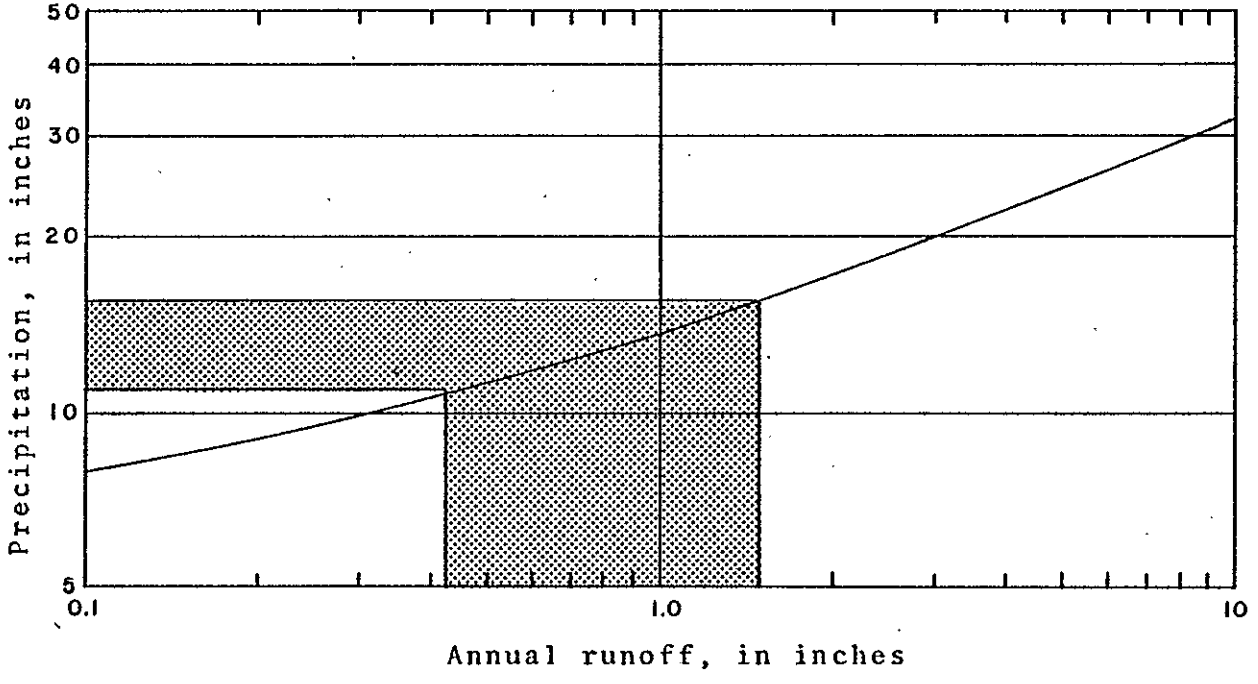


Figure 7.--Relationship between run-off and annual precipitation.

results are not always as expected. Work by Brown (1970) in Arizona has shown that run-off from high density chaparral can be increased by as much as 600 percent. However, conversion of a watershed having low chaparral density did not result in an increase in run-off. Conversion to grassland to increase forage yields has been practiced for many years, and some watershed studies have shown no significant change in run-off (Branson, 1975, p. 162).

Branson and Owen (1970) constructed a regression curve from annual run-off data from a desert shrub watershed in western Colorado. Fifteen years of record were available. This study showed that a 25 percent change in bare soil resulted in an annual run-off increase of 40.6 percent. A 25 percent increase in run-off occurred when test plots of bunchgrass rangeland were intensely grazed (Dunford, 1949).

No studies of this type have been conducted in the Eastside area; thus no absolute prediction of run-off changes can be made. However, rainfall-run-off relationships similar to those in the reports cited above can be expected. Assuming a reduction of 25 percent in ground cover, the amount of annual run-off should be increased from 25 to 40 percent. As shown in figure 8, most run-off occurs along the east side of the Pecos River, where an average is about 0.5 inch. This quantity would be increased to 0.62 to 0.70 inch of run-off per year.

It has been shown that virtually all drainage systems in the Eastside area are occupied by underfit channels. It is unlikely that increased run-off of less than 40 percent would be adequate to restore

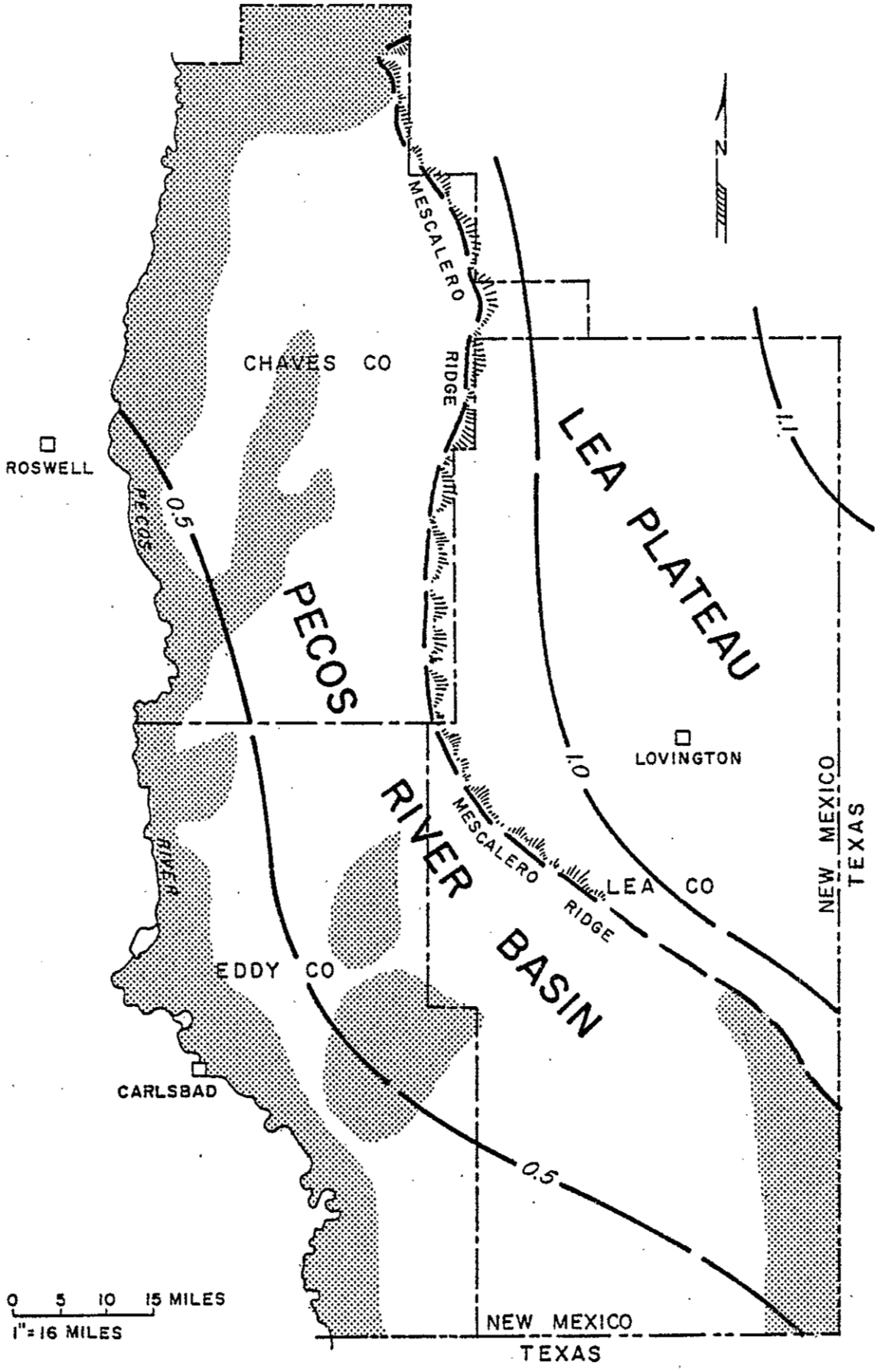


Figure 8.--Potential annual run-off, in inches, for Eastside Roswell area. Stippled areas represent integrated drainage systems.

these channels to their original competence. Therefore, a 25 percent decrease in ground cover would result in additional annual run-off in the drainage systems in the area; however, there would be little, if any, impact on the area.

Most studies have shown that increases in ground cover reduce run-off from a drainage basin. Inasmuch as 80 percent of the project area is undrained, an increased soil cover would have no effect on surface-water run-off. In those integrated drainage channels occupied by earthen retention dams (charcos), less run-off would be available.

Flood Projections

The absence of perennial streams in the Eastside Roswell area necessitated the use of channel geometry techniques in determining flood-flow characteristics. The U. S. Geological Survey (USGS) method for determining peak discharge relates flood characteristics to the width of the channel. Detailed work by Kunkler and Scott (1976) has illustrated the dependability of this channel geometry technique in areas similar to the Eastside Roswell area.

For the proper use of channel geometry techniques, measurements must be made where the channel conforms as closely as possible to the following criteria:

1. Channel shape should be uniform throughout.
2. Bed and banks should be of materials which allow the channel to develop into a normal size and shape for the flow regimen.

3. Channel banks should appear to have been permanent for some years.

Based on these criteria, channels which contained bedrock in the bed or banks, which were entirely vegetated, or which were not clearly defined were eliminated from consideration. Channels of streams subject to significant regulation, such as those containing retention dams or charcos, were not considered. Kunkler and Scott (1976, p. 25) also pointed out the importance of avoiding channels which show evidence of recent entrenchment.

In the Eastside Roswell area, the active channels usually are characterized by a more or less smooth line of vegetation on one or both sides, conforming with the edge of a lateral channel. Boulders and cobbles are present locally in channels eroded into the east bank of the Pecos River; if boulder diameters were less than about 10 percent of the channel width, the boulders presented no difficulty in defining reference channel widths.

Each flood discharge of a given recurrence interval was related to channel and basin characteristics using a backward elimination technique developed by the U. S. Geological Survey. The resulting equation is:

$$Q_t = aW^b$$

Where: Q = flood discharge of "t" recurrence interval

W = channel width (average of 3 or more sites)

a = regression constant

b = regression exponent

The regression equations are presented in Table 2.

Table 2.--Summary of regression equations relating floods of various recurrences (Q_t) to active channel widths (W) for 79 stream sites in New Mexico, $Q_t = aW^{b*}$.
(Values for exponents statistically significant at the 1 percent level.)

Recurrence interval, t, in years	Basin characteristics included	Regression constant		Regression exponent	Standard error of estimates			
		Log a	a	b	Log units	Positive (percent)	Negative (percent)	Average (percent)
2	-	-	-	-	X0.684	383	79	231
	W	0.2308	1.70	1.67	.326	112	53	82
5	-	-	-	-	X .614	311	76	193
	W	.7680	5.86	1.55	.259	82	45	63
10	-	-	-	-	X .592	291	74	183
	W	1.036	10.9	1.49	.256	80	45	62
25	-	-	-	-	X .579	279	74	176
	W	1.326	21.2	1.42	.278	90	47	68
50	-	-	-	-	X .578	278	74	176
	W	1.519	33.0	1.37	.304	101	50	76

X Standard deviation of logs of dependent variable.

* After Kunkler and Scott (1976).

These relationships were used to estimate floods of a given recurrence interval for all drainage channels in the Eastside area which displayed the correct geometric characteristics (Table 3). These channels drained basins ranging in area from about 3 square miles at Dimmitt Lake in Chaves County to nearly 100 square miles for Long Arroyo in Chaves County. Not all drainage systems in the area contained an active channel meeting the requirements for accurate channel geometry studies. Sixteen channels met the requirements. Streamflow characteristics for 2, 5, 10, 25, and 50-year flood discharge were computed for these channels. For example:

The flood discharge with a 25-year recurrence interval, (Q_{25}), for Hernandez Draw in Chaves County is:

1. From Table 2, $Q_{25} = 21.2W^{1.42}$
2. From a field measurement at the site, active-channel width is 15 feet.
3. $Q_{25} = 21.2(15)^{1.42} = 21.2(46.8) = 992\ ft^3/s$.

Kunkler and Scott (1976, p. 23) determined that this technique should not be applied to channels having an active-channel width of less than 4 feet or more than 154 feet.

For evaluating small drainage areas, those of 10.5 square miles or less, the Soil Conservation Service (SCS) method for determining peak rates of discharge for small watersheds was used for comparative purposes. The active-channel width is not used in the SCS method; therefore, the technique is not restricted by this particualr parameter. The procedure was taken from Chapter 2 of the Engineering Field Manual for Conservation

Name (Chaves County)	Location	Drainage area (mi^2)	Streamflow Characteristics: Peak Discharge, ft^3/sec									
			2-year		5-year		10-year		25-year		50-year	
			SCS	USGS	SCS	USGS	SCS	USGS	UCS	USGS	SCS	USGS
Hernandez Draw	4.26.20	33.0	-	156	-	390	-	616	-	992		1348
Van Eaton Draw	5.26.8	6.5	649	120	1082	305	1514	487	2217	792	2596	1085
Crockett Draw	6.26.36	8.5	1763	-	2938	-	4113	-	6022	-	7050	-
Bosque Draw	6.25.28	12.0	-	1765	-	3694	-	5354	-	7782	-	9839
Sand Creek	7.26.9	10.0	1651	569	2752	1292	3853	1950	5642	2973	6605	3888
Eightmile Draw	7.26.32	5.5	813	452	1355	1043	1897	1587	2778	2443	3252	3217
Bob Crosby Draw	8.26.30	8.5	1314	162	2440	402	3284	635	4598	1020	5349	1385
Lloyds Canyon	9.25.1	7.5	749	-	1498	-	1786	-	2592	-	2995	-
Comanche Creek	11.26.15	22.5	-	79	-	208	-	337	-	558	-	774
Dimmit Lake Tributary	11.26.34	3.0	1048	56	1947	150	2621	246	3669	413	4268	570
Long Arroyo	14.27.13	96.0	-	67	-	177	-	288	-	480	-	670
Unnamed #1	19.27.17	35.0	-	55	-	147	-	242	-	406	-	570

Table 3.--Streamflow Characteristics.

Name (Eddy County)	Location	Drainage area (mi^2)	Streamflow Characteristics: Peak Discharge, ft^3/sec									
			2-year		5-year		10-year		25-year		50-year	
			SCS	USGS	SCS	USGS	SCS	USGS	SCS	USGS	SCS	USGS
Logan Draw	17.27.13	10.5	2150	93	3494	241	4838	388	6451	638	7526	881
Bear Grass Draw	18.29.10	8.5	762	108	1306	276	1741	442	2502	722	2829	993
Unnamed #2	19.27.17	3.5	1183	55	1922	147	2661	242	3548	406	4140	570
Hackberry Lake Tributary	19.30.23	3.0	-	115	-	294	-	470	-	766	-	1050
Unnamed #3	20.27.3	4.5	806	-	1310	-	1814	-	2419	-	2822	-
Dog Town Draw	24.30.17	3.5	495	343	914	808	1180	1241	1676	1933	1942	2567
Pierce Canyon	24.29.26	8.5	1432	471	2644	1083	3415	1646	4847	2529	5618	3327
Cedar Canyon	24.29.34	4.5	768	2050	1417	4244	1830	6118	2598	8838	3011	11,125
Bushy Draw	29.26.15	18.0	-	103	-	265	-	426	-	697	-	959
Tucker Draw	30.26.31	10.5	1613	135	2621	339	3629	538	5040	872	5645	1191

Table 3.--Streamflow Characteristics.

Name (Lea County)	Location	Drainage area (mi^2)	Streamflow Characteristics: Peak Discharge, ft^3/sec									
			2-year		5-year		10-year		25-year		50-year	
			SCS	USGS	SCS	USGS	SCS	USGS	SCS	USGS	SCS	USGS
Fight in Hollow Draw	25.36.4	5.	547	-	1186	-	1733	-	2371	-	2645	-
Antelope Draw	25.36.36	10.5	1290	-	2796	-	4086	-	5591	-	6236	-
Red Hills	26.32.22	7.5	972	-	1944	-	2527	-	3888	-	4471	
Salado Draw	26.33.24	5.5	898	-	1795	-	2334	-	3590	-	4129	

Table 3.--Streamflow Characteristics.

Practices, revised in October 1973 for New Mexico. Tables and charts are included for a quick but reliable guide to estimate peak rates of discharge and associated run-off volumes for a range of rainfall amounts, soil types, land use, cover conditions, and average watershed slope.

The amount of rainfall which runs off a watershed is determined by the combined effect of soil, vegetative cover, and conservation practices. These are identified as "run-off-curve numbers" (CN). The amount of precipitation occurring in the five days preceeding a storm is an indication of the antecedent moisture condition (AMC) of the soil. The run-off curve numbers are for average antecedent moisture conditions (AMC II).

The soil and its hydrologic conditions, in most cases, affect the volume of run-off more than any other single factor. Soils have been classified into four hydrologic soil groups: high infiltration (A), moderate infiltration (B), slow infiltration (C), and very slow infiltration (D).

Vegetation affects run-off in several ways. The foliage and its litter maintains the soil infiltration potential by preventing the sealing of the soil surface by the impact of raindrops. Vegetation and ground litter form numerous barriers along the path of water flowing over the surface of the land. This lengthens its time-of-concentration (T_c) and reduces its peak discharge rate.

Conservation practices, in general, reduce sheet erosion and thereby maintain an open structure of the soil surface. This reduces

the volume of run-off, although the effect diminishes rapidly with increase in storm magnitude.

The slopes in a watershed have a major effect on the run-off rate and the peak discharge rate at downstream points. Slopes have little effect on how much of the rainfall will run off. The 24-hour rainfall depths for a desired location and frequency can be obtained from the appropriate 24-hour rainfall maps for New Mexico. The volume of run-off from a watershed may be expressed as the average depth of water that would cover the entire watershed. The data for the peak rate discharge chart were computed using procedures from the SCS National Engineering Handbook, Section K (NEH-4).

The average stream channel slope of the watercourse can be determined by the elevation difference from the mouth of the stream to the furthermost ridge. This information is taken from the appropriate topographic map.

Peak discharges for 19 drainage areas were calculated using the SCS method (Table 3). Streamflow characteristics for flood discharges at various frequencies were computed. Comparison of the values determined by the USGS and SCS are given.

Determinations for Fight in Hollow Draw in southern Lea County are given here as an example of the method used by the USGS in determining peak discharge:

Drainage area : A=5 mi^2 or 3,200 acres

Length of longest waterway: L=8.3 mi or 43,749 feet

Elevation difference : H=3,370-3,030 = 340 feet

Run-off Curve Number (Engr. Field Man. tab. 2-1)

One-third of drainage area soil is Simona-Tonuco.

One-third of drainage area soil is Berino-Cacique.

One-third is Pyote-Maljamar-Kermit soil association.

A weighted calculation is required:

1/3 (45+43) + 1/3 (40+43) + 1/3 (22+26+22) = 80.3 (CN)

Time of Concentration: T_c = 2.8 hours.

Rainfall, 24-hour, frequency:	2 yr:	2.1 inch
	5 yr:	3.1 inch
	10 yr:	3.8 inch
	25 yr:	4.7 inch
	50 yr:	5.0 inch
Direct Run-off: (fig. 2-4)	2 yr:	0.6 inch
	5 yr:	1.3 inch
	10 yr:	1.9 inch
	25 yr:	2.6 inch
	50 yr:	2.9 inch

Distribution Curve No.: (Exhibit 2-3) DC = 65

cfs per acre per inch of run-off: (fig. 2-5) cfs/ac/in = 0.285

Peak discharge: q = A x Q x cfs/ac/in

2 yr:	3200(0.6) (0.285)	= 547.2 cfs
5 yr:	3200(1.3) (0.285)	= 1186 cfs
10 yr:	3200(1.9) (0.285)	= 1733 cfs
25 yr:	3200(2.6) (0.285)	= 2371 cfs
50 yr:	3200(2.9) (0.285)	= 2645 cfs

Only about 20 percent of the entire Eastside area has integrated drainage; much of that drainage does not reflect existing meteorological conditions. Of the integrated drainages, only about 32 percent contain active-channel characteristics sufficient to reflect existing rainfall-

run-off relationships through channel geometry. Therefore, it was not possible to "Provide estimates of 2.5 and 25 year flood discharge (CFS) per square mile for storms of 2 and 6-hour duration for drainage areas typical of the Pecos River Basin east of river". Without existing flood-hydrograph measurements from the area, flood-frequency hydrographs cannot be constructed.

Some published data are available from the U. S. Geological Survey (Hale and others, 1965) which provide flood-frequency curves of annual peak floods at selected gaging stations in New Mexico. However, it should be stressed that the data are not from the basins of the Eastside Roswell area and considerable differences exist (fig. 9).

According to representatives of the Water Resources Division, U. S. Geological Survey (oral commun., J. P. Borland, 1977), specific records would be needed from selected drainage systems in the Eastside area to accurately project flood frequency and run-off. It is generally agreed that at least one year's records, including discharge measurements, are required for making flood-frequency estimates for a period of two years or less. Estimates for 25-year flood discharges would require a minimum of five years of continuous record.

Chemical Quality

The Statement of Work for the project required "... a narrative comparing the quality of these waters (surface water) with the State of New Mexico standards for the streams they are tributary to and to

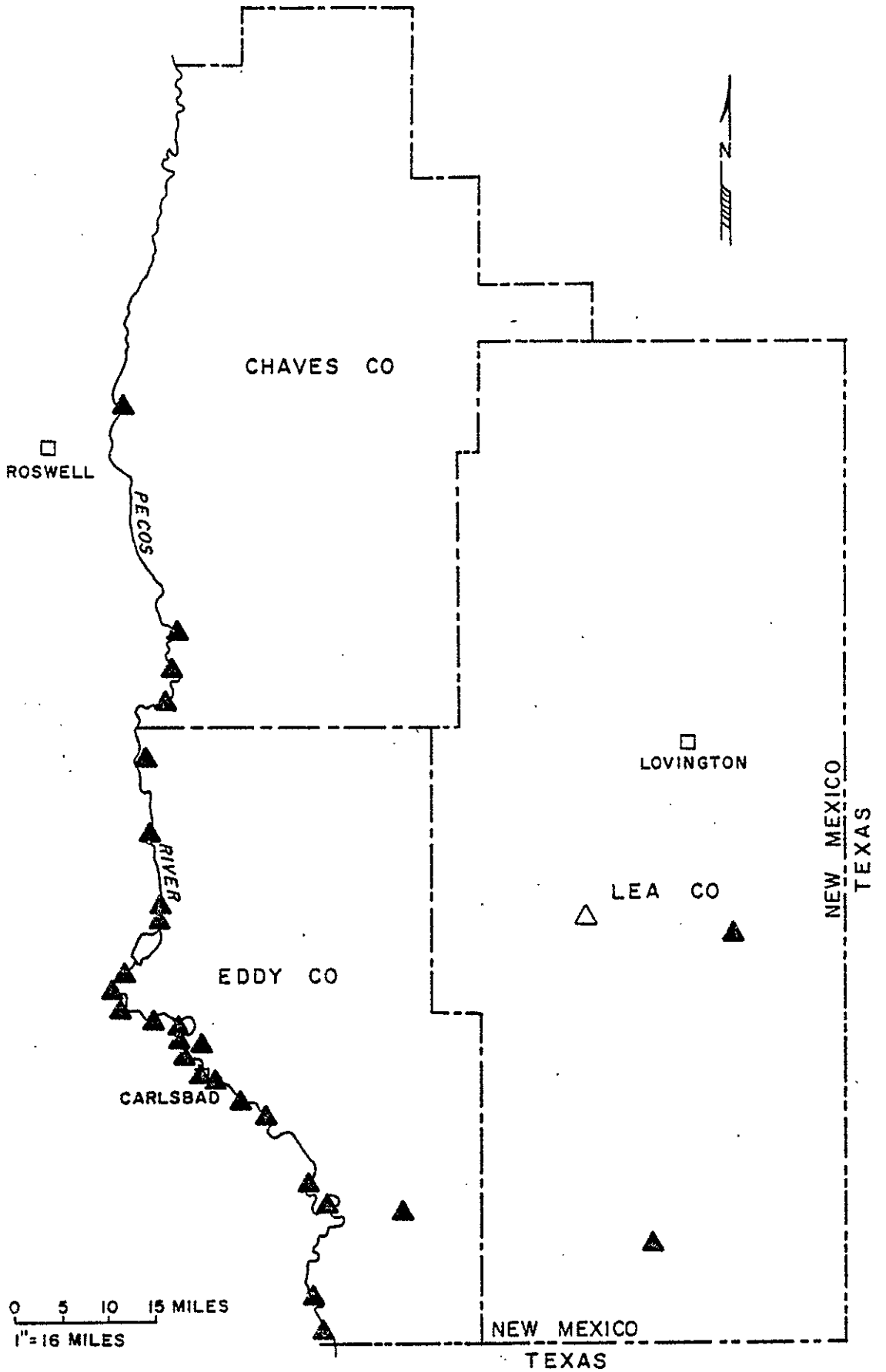


Figure 9.--Surface-water stations maintained by U. S. Geological Survey.

their suitability for irrigation, and wildlife, livestock, and human consumption".

The National Interim Primary Drinking Water Standards were published in the Federal Register (vol. 40, no. 51, p. 11,994) by the Environmental Protection Agency. These standards supercede the standards set by the Public Health Service in 1962. The interim standards set the following maximum contaminant levels for inorganic chemicals:

Contaminant:	Level (mg/l)
arsenic	0.05
barium	1.0
cadmium	0.01
chromium	0.05
cyanide	0.2
lead	0.05
mercury	0.002
nitrate (as N)	10.0
selenium	0.01
silver	0.05

The Water Quality Division of the New Mexico Environmental Improvement Agency (1974) has recommended the following standards for human consumption, livestock water use, and irrigation.

Human Health Standards.

The following standards for water contaminants are the maximum concentrations allowable in a water supply used for human consumption.

Contaminant:	Level (mg/l unless noted).
arsenic	0.05
barium	1.
cadmium	0.01
chloride	250.
chromium	0.05

copper	1.
cyanide	0.2
fluoride	1.7
iron	0.3
lead	0.05
manganese	0.2
total mercury	0.002
nitrate-nitrogen	10.
phenols	0.001
selenium	0.01
silver	0.05
sulfate	600.
total dissolved solids	1,000.
zinc	5.0
organic chemicals	0.7
radioactivity (comb. $Ra^{226-228}$)	5.0 pCi/l

Standards of Livestock Water Use.

The above standards apply, in addition to the following maximum concentrations:

Contaminant:	Level (mg/l)
aluminum	5.0
cobalt	1.0
vanadium	0.1

Standards for Irrigation Use.

The following standards, as well as the standards listed above, are maximum concentrations allowable in a water supply to be used for irrigation:

Contaminant:	Level (mg/l)
boron	0.75
molybdenum	0.15
nickel	0.2

Water quality criteria are not directly regulated, but they form the basis for judgement in several Environmental Protection Agency programs

that are derived from water quality considerations(E. P. A., 1976, p.4-5). Water quality standards developed by New Mexico and approved by EPA are based on local water quality conditions. These local conditions include actual and projected uses of the water, natural background levels, and a variety of other factors.

It should be noted that the recommended limits are suggested as guides for water quality only. Concentrations in excess of the standards do not necessarily indicate non-potable water. Some limits are set for health standards; others are esthetic standards only. For example, the recommended maximum concentration for iron (Fe) is 0.3 mg/l, but larger quantities are taken for therapeutic purposes. Therefore, the recommended maximum is based on esthetic and taste considerations. Iron and manganese tend to precipitate as hydroxides and stain laundry and porcelain fixtures. Sulfate limits apparently are based on taste and physiological effects on new users. Sulfate may have a laxative effect on persons not used to the water, but it is simply a matter of adjustment. For some individuals, a cathartic dose may be as high as 2,000 mg/l sulfate (Moore, E. W., 1950). For other constituents, such as arsenic and selenium, prolonged use of water exceeding the recommended limits may have serious detrimental effects. Therefore, it is important to use these recommended limits as guides to water quality. If limits are exceeded, normal precautions should be taken.

As specified in the Statement of Work, two water samples were collected from surface-water sources in the Eastside Roswell area. One

sample was collected from a charco in Long Arroyo (sec. 13, T. 14 S., R. 27 E.); the other sample was taken from Comanche Creek (sec. 15, T. 11 S., R. 26 E.). Both samples are from Chaves County. Arrangements had been made for local residents to collect surface-water run-off samples in various parts of the Eastside area, but there was no run-off in any of the major drainage systems during this project. Collection sites were very limited.

The chemical analyses for the two surface-water samples is given below:

Constituents	Long Arroyo (14.27.13)	Comanche Creek (11.26.15)
	(Concentrations in mg/l except as noted)	
arsenic	0.05	0.05
calcium	43.	360.
iron	0.02	0.02
lead	0.02	0.02
magnesium	8.	795.
manganese	0.01	0.01
potassium	37.	5.6
sodium	23.	595.
bicarbonate	194.8	227.7
boron	1.3	3.0
carbonate	0.01	1.8
chloride	19.	900.
fluoride	1.5	4.75
selenium	0.01	0.01
sulfate	30.	4,550.
Alkalinity	166	194
Conductance	560 uho/cm	8,200 uho/cm
Hardness	140	4,171
pH	7.6	8.2
Total dissolved solids	236	9,016
SAR	0.84	4.0
Gross alpha	n.d.*	n.d.*
Gross beta	n.d.*	n.d.*
Fecal coliform	none	none
Total coliform	2	none
Temperature	14°C	11°C

* n.d.=not determined

In order to show the relationship of the principal anions and cations in these samples, the data were plotted on a trilinear diagram (fig. 10). This method of presentation is useful because the relative proportion of the anions and cations can be shown and is not biased by total mineralization. The sample from Long Arroyo is primarily a calcium bicarbonate type water, and the Comanche Creek samples is a calcium chloride-sulfate type water. The total dissolved solids of these two samples are 236 and 9,016 mg/l (ppm) respectively.

The trilinear diagram is used by dividing the concentration values reported in the analyses by the combining weight of that ion. (The combining weight equals the atomic or molecular weight of the ion divided by the ionic charge.) The values are expressed as "equivalents per million" (epm) and the percentage of each is plotted in the diagram. Thus it is possible to identify the principal anions and cations, as well as the combination of these, in the sample.

The extreme difference in mineralization of the two surface-water samples reflects the origin of the water. The sample from the charco in Long Arroyo is typical of water derived entirely from surface run-off and is representative of run-off from other parts of the Eastside area. All constituents are below the recommended maximum concentrations set by the Environmental Improvement Agency.

Water from Long Arroyo would be suitable for human consumption, livestock watering, and irrigation.

The sample from Comanche Creek was collected downstream from

9 2ood USGS-WRD, Nov. 1954

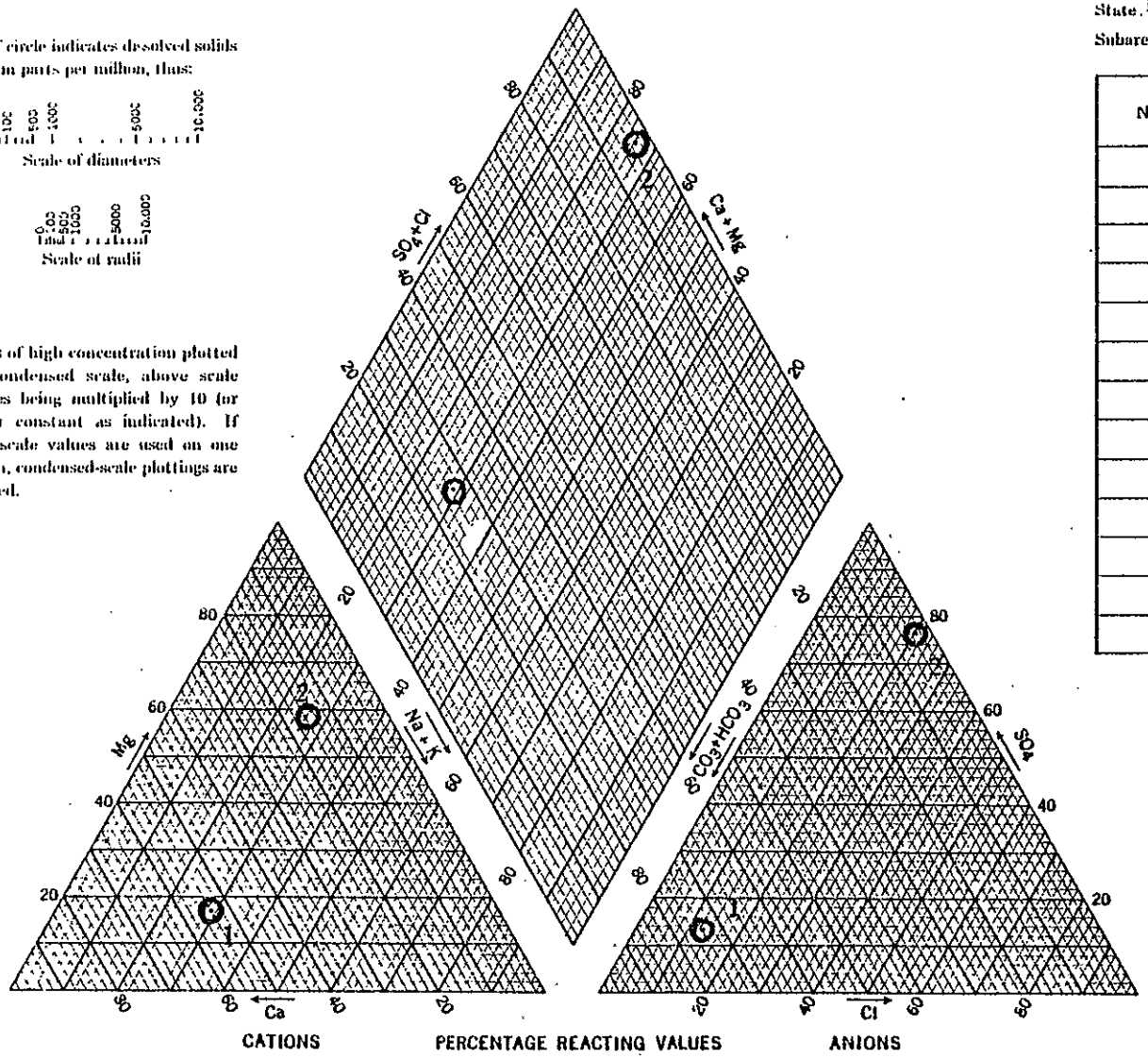
WATER-ANALYSIS DIAGRAM

Area of circle indicates dissolved solids in parts per million, thus:

Scale of diameters

Scale of radii

Waters of high concentration plotted at condensed scale, above scale values being multiplied by 10 (or other constant as indicated). If two scale values are used on one graph, condensed-scale plottings are shaded.



State New Mexico

Subarea Pecos River basin

Number	Date	Dissolved solids (ppm)	Aquifer
1	2-78	236	Long arroyo
2	2-78	9,016	Comanche Ck.

Plotted by DNJ

Checked by TEK

Date 3-17-78

U.S. GOVERNMENT PRINTING OFFICE : 1961 O—631758

Figure 10.--Distribution of major constituents in surface-water samples from the Eastside Roswell area.

Comanche Spring, which is a discharge point for ground water from limestone aquifers on the east side of the Pecos River. In this sample, chloride, fluoride, and sulfate exceed the recommended maximums. The total dissolved solids concentration is far in excess of the recommended limit. This water would not be satisfactory for human consumption or livestock watering. Use of this water for irrigation would have serious detrimental effects on soils.

The Comanche Creek sample is representative of spring flow from the Pecos River Basin. Numerous small springs are present along the east edge of the Pecos River; these are discussed in more detail in the groundwater section of this report. Elsewhere in the project area, however, the Long Arroyo sample would be more representative of surface-water quality.

Water Quality Standards for interstate and intrastate streams in New Mexico were established by the Water Quality Control Commission under the authority of Paragraph C, Section 75-39-4 of the New Mexico Water Quality Act of 1973. The standards were adopted on August 22, 1973, and revised September 29, 1975, January 13, 1976, and February 8, 1977. Standards were established for all of the major streams in the State; the standards may vary in different reaches of a stream.

Both of the surface-water samples were collected from tributaries of the Pecos River which are included in the "main stem of the Pecos River from the headwaters of Lake McMillan upstream to Acme...". These standards are as follows:

1. In any single sample:

   Dissolved oxygen shall be greater than 5.0 mg/l;
   pH shall be within the range of 6.6 to 8.8;
   Temperature shall be less than 32.2°C (90°F).

2. The monthly logrithmic mean of fecal coliform bacteria shall be less than 1,000/100 ml, and no more than 10 percent of the samples shall exceed 2,000/100 ml.

3. At all flows above 50 cfs:

   TDS shall be less than 14,000 mg/l;
   Sulfate shall be less than 3,000 mg/l;
   Chloride shall be less than 6,000 mg/l.

The samples from Long Arroyo and Comanche Creek are within these standards. All constituents in the sample from Long Arroyo are within the standards listed above. The sulfate concentration in the Comanche Creek exceeds 3,000 mg/l; however, the discharge in the creek did not exceed 50 cfs at the time that the sample was collected. Undoubtedly this represented ground-water discharge which would be diluted by storm run-off at any time that the discharge exceeded 50 cfs.

GROUND WATER

Ground water originates as rain or snow. Most of this precipitation returns to the atmosphere by evaporation and transpiration. In the Eastside area a very small part leaves the area as surface-water run-off discussed in the preceeding section of this report. According to Theis (1938, p. 2), only about one-half inch of precipitation per year moves downward beyond the root zone. This water then goes into transient storage in the ground. Water saturating the rock is called "ground water"; the formation containing the water is called an "aquifer". The top of the zone of ground-water saturation in an aquifer is called the "water table".

Holes drilled to sufficient depth to penetrate the water table will be completed as water wells; those that fail to reach the water table (or which penetrate only impermeable rocks) are abandoned as "dry holes". The amount of water that can be produced from an aquifer depends on the character of the rock. Fractured limestone and relatively unconsolidated sand and gravel generally yield large quantities of water to wells. Fine-grained sandstone has little permeability and will yield small quantities of water. Shale is generally impermeable and will not produce water.

There have been several ground-water investigations in various parts of the Eastside Roswell area. Robinson and Lang (1938) studied the Salt Lake area with special reference to the origin of the salt.

A study of Eddy County was made by Hendrickson and Jones (1952). A number of studies have been made in the vicinity of Malaga Bend to determine the source of brine entering the Pecos River. The most comprehensive of these was made by Havens (1972). Southern Lea County was studied in detail by Nicholson and Clebsch (1961); Ash (1963) summarized ground-water conditions in northern Lea County. Large quantities of ground-water data have been collected by the Office of the New Mexico State Engineer in Roswell. The U. S. Geological Survey has collected additional data in the Nash Draw area of Eddy County. The only formal studies made in Chaves County pertain to the Roswell Basin, an irrigation district on the west side of the Pecos River outside the current project area.

Data from these studies form the basis for the interpretations in this report. The Statement of Work specified that a minimum of one well per township be evaluated for this study. There are approximately 100 townships in the Eastside Roswell area. Prior to field collection of data, all published and unpublished data were collected and filed. These data were used whenever possible. Where data were generally lacking, as in the more sparsely populated parts of the area, additional well inventory was necessary. Virtually all of Chaves County was inventoried during this study. The final tabulation from all these sources includes data for more than 2,800 wells in the Eastside Roswell area (Appendix A).

Water-Table Contour Maps

There are three different types of aquifers in the Eastside area: artesian, perched, and water table. Artesian aquifers are locally important, because they generally contain highly mineralized water which is a source of contamination for shallower water-table aquifers. Most Eastside area wells tap water-table aquifers, the principal source of water for wells in the area. Locally, perched water has been noted, but wells tapping such zones have low yields and can be identified by the somewhat isolated nature of the producing zone. Therefore, it has been possible to distinguish the type of aquifer penetrated by most wells in the area. Whenever possible, data from artesian and perched aquifers have not been contoured, although the data are included in Appendix A.

Water-table contour maps show the altitude of the water table. The shape of the water table provides information about the direction and rate of movement of ground water. High areas on the water table are areas of recharge to the aquifers; discharge areas generally are located at lower altitudes.

Chaves County (fig. 11).

The regional slope of the water table is west-southwest toward the Pecos River from the eastern boundary of the county. The highest water-table altitudes are located in the northeastern part of the county at 4,600 feet above mean sea level. The regional slope is

distorted by Long Arroyo, which probably represents a major zone of ground-water loss by evapotranspiration where the water table is close to the land surface.

Two major collapse structures in central Chaves County are areas of internal drainage and local ground-water discharge. One of these collapse features underlies the White Lakes region south of Railroad Mountain; the smaller area is north of the mountain and west of Chatten Ranch in T. 7 S., R. 28 E. Only highly mineralized water is produced from wells drilled in the White Lakes area. This is probably due to concentration of chemical constituents in the ground water near the discharge points.

Along the eastern boundary of Chaves County and south of T. 11 S., the Ogallala aquifer is bounded by Mescalero Ridge. The Ogallala is the principal aquifer in Lea County, where it is capable of yielding large quantities of water to wells. Ground-water movement in the Ogallala is southeastward into Lea County.

Chaves County is typically rangeland. There has been very little successful mineral exploration. Low yields and poor quality of water have discouraged drilling of wells in some areas. Consequently, widely-spaced stock wells are the principal source of data used in this map. The scarcity of wells suggests that aquifers are not favorable for well development in any given area. It may also indicate an abundance of salt water.

Eddy County (fig. 12).

The regional trend of ground-water movement in Eddy County is toward the Pecos River in a south to southwesterly direction. Nash Draw and Clayton Basin disrupt the regional ground-water flow pattern. In this area, ground water converges from the north, west, and east, and then moves southwesterly at a very low gradient along the axis of the topographic low. Salt Lake is probably the point of ground-water discharge.

A well-defined ground-water divide is located beneath Pavo Mesa and Fade Away Ridge east of Artesia. It extends from the Chaves-Eddy County line south for more than 25 miles. East of this divide the ground water generally moves toward Clayton Basin; west of the ridge the ground water flows directly toward the Pecos River.

From T. 21 S. to the Texas line, the water-table gradients are quite steep away from Lea County for about six miles to the approximate position of Livingstone Ridge. West of the Ridge the water table is relatively flat with a general trend of ground-water movement toward the southwest.

Lea County (fig. 13).

There are two distinct aquifers in Lea County: the Ogallala, which is generally located northeast of Mescalero Ridge, and an older, lower-yield aquifer southwest of the Ridge.

The Ogallala aquifer is the principal aquifer in southeastern New Mexico. The thickness increases eastward from Mescalero Ridge

toward the state line. Maximum thickness is 350 feet, but the average is about 200 feet. Generally, north of Tatum, the Ogallala is thin or absent and water from wells is more difficult to obtain.

There is a rather uniform gradient on the water table in the Ogallala from the aquifer boundary along Mescalero Ridge toward the southeast to the vicinity of Hobbs. At that point the ground-water movement is southward into Texas. Local distortions of the water-table configuration have resulted from heavy pumping for irrigation; however, these distortions are not apparent from the 20-foot contour interval on figure 13. Most irrigation development is located east of R. 35 E. West of this area the principal water development has been for oil-well drilling and for stock use.

The configuration of the water table in the older aquifers is controlled by San Simon Swale and Laguna Plata. San Simon Swale is an area of internal drainage with an outlet at the southeast end of the swale. The area around Laguna Plata is characterized by very low ground-water gradients toward the south and west.

A major ground-water divide is defined by the water-table contours along the Lea-Eddy County border from about T. 21 S. to T. 25 S., a distance of about 24 miles. This divide controls the direction of ground-water movement in much of Eddy and Lea Counties.

Depth-to-Water Maps

The configuration of a water table is usually a subdued representation of the topography. The depth is usually greatest beneath topographic

highs and shallowest beneath topographic lows. The distribution and areal extent of aquifers also have a major influence on the depth to the water table.

Throughout most of the Eastside area there is adequate well control to map the top of the water table and determine its depth below land surface. The information used for this is tabulated in Appendix A. Because of the relatively uniform depth and water-bearing characteristics of most aquifers in the Eastside area, the depth-to-water maps are useful for estimating drilling depths for wells. It should be noted, however, that local variations in the hydrologic conditions frequently are present, and any drilling program should be preceeded by local, more detailed evaluations.

Chaves County (fig. 14).

Sparse well control in much of this county necessitated the use of a variable contour interval. Water-level depths of less than 100 feet are contoured at 25-foot intervals; 50-foot intervals were used for depths greater than 100 feet.

In the alluvial aquifers of the Pecos River Valley, depth to water generally is less than 20 feet. East of the valley, wells ranged from about 35 feet to more than 400 feet in depth. Near the central part of the county there is an area of shallow wells that are less than 50 feet deep; many of these produce brine. In the southeastern part of the county there is an area of deep wells--generally greater than 400 feet.

Eddy County (fig. 15).

This map has a variable countour interval.

As in Chaves County, the depth to water in the alluvial fill of the Pecos Valley is generally less than 20 feet. East of the valley, wells range in depth from less than 50 feet to more than 500 feet near Snyder Twin Wells in T. 24 S., R. 31 E. An area of shallow wells is present along the northern border of the county. A few miles south there is an east-west zone of deep wells near Loco Hills and east of Chalk Bluffs. Most wells in the southern part of the county exceed 250 feet in depth.

Wells in Clayton Basin and Nash Draw are generally shallow. There is very little potable water in these areas. High well yields from brine-producing wells have been reported.

Lea County (fig. 16).

The amount of available control for the depth to water in the Ogallala aquifer was adequate to contour this aquifer on 10- to 20-foot intervals. Other aquifers in the county were contoured at 50-foot intervals.

Depth to water in the Ogallala ranges from less than 15 feet to greater than 280 feet. The depth of wells tapping this aquifer generally increases from east to west. Ground-water depletion occurs locally in areas of heavy irrigation in the east-central part of the county.

A belt of shallow wells coincides with the axis of Monument Draw north of Jal. The wells on either side of this feature are considerably deeper, locally exceeding 400 feet in depth. The west side of Monument Draw is marked by a series of deep, closed depressions in

the water table which seem to have little relationship to the geology of the aquifer. This may reflect variations in well construction, water requirements, or zones of low permeability.

Northeast of San Simon Swale, an area of approximately 150 square miles in Ts. 20-21 S., Rs. 34-35 E. contains a large number of wells drilled to an average depth of only 60 feet. Although this area is similar to the Ogallala aquifer farther north, it has generally not been considered part of that aquifer (Nicholson and Clebsch, 1961). It may be reworked Ogallala formation or alluvial material.

In the southern part of the county, wells generally increase in depth from the southern border with Texas northward along the groundwater divide in southwestern Lea County. Perched aquifers tapped by wells less than 50 feet in depth are common but are irregularly distributed throughout southern Lea County. One well-defined perched zone is present near Laguna Plata; others are not sufficiently well-defined to illustrate on figure 16.

Water-Level Fluctuations

Early in this study, certain wells were selected as observation wells to determine fluctuations in water levels (Table 4). This information is useful in determining amount and rate of recharge to the aquifer tapped by a well. Unfortunately, the length of the project was too limited to obtain information needed to make significant conclusions concerning the relationship of precipitation to recharge. Nevertheless, the measurements do show the amount of seasonal change

Table 4.--Water-level records of selected observation wells.

CHAVES COUNTY

10.26.7.132 — Measured well depth: 54.6 ft.

Date	Depth to Water(ft)	Date	Depth to Water (ft)
Nov. 11, 1977	30.4	Feb. 6, 1978	51.3
Dec. 7, 1977	34.36	Feb. 22, 1978	34.7
Dec. 21, 1977	49.01	Mar. 29, 1978	38.69
Jan. 23, 1978	43.89	May 3, 1978	37.48

14.27.16.231 — Measured well depth: 56 ft.

Date	Depth to Water(ft)	Date	Depth to Water (ft)
Nov. 14, 1977	48.24	Feb. 2, 1978	48.33
Dec. 4, 1977	48.21	Feb. 22, 1978	48.32
Dec. 21, 1977	48.31	Mar. 29, 1978	48.31
Jan. 17, 1978	48.23	May 3, 1978	51.47

15.31.11.424 — Measured well depth: 300 ft.

Date	Depth to Water(ft)	Date	Depth to Water (ft)
Nov. 14, 1977	252.73	Feb. 2, 1978	252.94
Dec. 6, 1977	252.63	Feb. 23, 1978	252.77
Dec. 21, 1977	252.71	Mar. 29, 1978	pumping
Jan. 17, 1978	252.67	May 3, 1978	252.89

EDDY COUNTY

18.30.31.323 — Measured well depth: 161 ft.

Date	Depth to Water(ft)	Date	Depth to Water (ft)
Nov. 18, 1977	159.65	Feb. 3, 1978	159.92
Dec. 5, 1977	158.32	Feb. 24, 1978	158.37
Dec. 20, 1977	158.72	Mar. 8, 1978	158.28
Jan. 18, 1978	161.65	Mar. 30, 1978	158.54
		May 4, 1978	158.28

Table 4.--Water-level records of selected observation wells.

19.30.25.421 — Measured well depth: 42 ft.

Date	Depth to Water(ft)	Date	Depth to Water (ft)
Nov. 18, 1977	22.73	Feb. 3, 1978	22.57
Dec. 5, 1977	22.65	Feb. 23, 1978	22.50
Dec. 20, 1977	22.69	Mar. 30, 1978	22.47
Jan. 18, 1978	23.37	May 4, 1978	22.65

21.30.18.33 — Measured well depth: 139.3 ft.

Date	Depth to Water (ft)	Date	Depth to Water (ft)
Nov. 9, 1977	135.07	Feb. 3, 1978	136.02
Dec. 5, 1977	135.34	Feb. 24, 1978	135.95
Dec. 20, 1977	135.77	Mar. 30, 1978	135.98
Jan. 18, 1978	135.96	May 4, 1978	135.96

22.29.33. — Measured well depth: 70.3 ft.

Date	Depth to Water(ft)	Date	Depth to Water (ft)
Nov. 9, 1977	54.10	Feb. 3, 1978	53 65
Dec. 5, 1977	53.17	Feb. 24, 1978	53.28
Dec. 20, 1977	53.18	Mar. 30, 1978	53.89
Jan. 18, 1978	53.07	May 4, 1978	52.85

22.30.32.411 — Measured well depth: 92.0 ft.

Date	Depth to Water(ft)	Date	Depth to Water(ft)
Nov. 9, 1977	24.23	Feb. 3, 1978	29.69
Dec. 5, 1977	29.73	Feb. 24, 1978	29.65
Dec. 20, 1977	29.74	Mar. 30, 1978	29.58
Jan. 18, 1978	29.71	May 4, 1978	29.52

Table 4.--Water-level records of selected observation wells.

LEA COUNTY

16.33.25.422 Measured well depth: 126 ft.

Date	Depth to Water (ft)	Date	Depth to Water (ft)
Nov. 15, 1977	120.31	Feb. 2, 1978	120.05
Dec. 6, 1977	120.30	Feb. 23, 1978	120.29
Dec. 21, 1977	120.31	Mar. 29, 1978	120.41
Jan. 17, 1978	120.23	May 3, 1978	120.49

16.33.32.134 Measured well depth: 189.2 ft.

Date	Depth to Water(ft)	Date	Depth to Water (ft)
Nov. 15, 1977	178.88	Feb. 2, 1978	173.07
Dec. 6, 1977	180.53	Feb. 23, 1978	173.14
Dec. 21, 1977	176.14	Mar. 29, 1978	175.14
Jan. 17, 1978	173.07	May 3, 1978	173.22

16.34.10.322 Measured well depth: 88 ft.

Date	Depth to Water (ft)	Date	Depth to Water (ft)
Nov. 15, 1977	82.71	Feb. 2, 1978	81.63
Dec. 6, 1977	81.58	Feb. 23, 1978	85.59
Dec. 21, 1977	81.62	Mar. 29, 1978	83.63
Jan. 17, 1978	81.55	May 3, 1978	81.63

16.36.8.141 Measured well depth: 80.0 ft.

Date	Depth to Water(ft)	Date	Depth to Water (ft)
Nov. 15, 1977	68.94	Feb. 2, 1978	68.38
Dec. 6, 1977	69.07	Feb. 23, 1978	68.79
Dec. 21, 1977	69.41	Mar. 29, 1978	69.34
Jan. 17, 1978	68.21	May 3, 1978	pumping

Table 4.--Water-level records of selected observation wells.

16.37.11. NW NW NW

Date	Depth to Water (ft)	Date	Depth to Water (ft)
Dec. 6,1977	80.55	Feb. 23,1978	76.33
Dec. 21,1977	79.71	Mar. 29,1978	75 97
Jan. 17,1978	77.36	May 3,1978	not measureable
Feb. 2,1978	76.97		

17.36. 3. C SW NW Measured well depth: 87.0 ft.

Date	Depth to Water (ft)	Date	Depth to Water (ft)
Nov. 15,1977	51.38	Feb. 2,1978	51.49
Dec. 6,1977	51.40	Feb. 23,1978	51.48
Dec. 20,1977	51.48	Mar. 29,1978	51.52
Jan. 17,1978	51.45	May 3,1978	51.52

18.35.34. NE SE SW Measured well depth: 51.2 ft.

Date	Depth to Water (ft)	Date	Depth to Water (ft)
Nov. 15,1977	26.26	Feb. 2,1978	26.30
Dec. 6,1977	26.28	Feb. 23,1978	26.295
Dec. 21,1977	26.29	Mar. 29,1978	26.30
Jan. 17,1978	26.29	May 3,1978	26.37

19.37.32. NE NE NE

Date	Depth to Water (ft)	Date	Depth to Water (ft)
Nov. 19,1977	22.57	Feb. 2,1978	22.62
Dec. 6,1977	22.68	Feb. 23,1978	22.75
Dec. 21,1977	22.81	Mar. 29,1978	22.76
Jan. 17,1978	22.98	May 3,1978	22.82

Table 4.--Water-level records of selected observation wells.

20.37. 9. NW SW Measured well depth: 53 ft.

Date	Depth to Water (ft)	Date	Depth to Water (ft)
Nov. 19,1977	13.85	Feb. 2,1978	13.77
Dec. 6,1977	13.90	Feb. 23,1978	13.84
Dec. 21,1977	13.89	Mar. 29,1978	18.18
Jan. 17,1978	13.78	May 3,1978	38.41

20.37.16 NE SW

Date	Depth to Water (ft)	Date	Depth to Water (ft)
Nov. 19,1977	16.58	Feb. 2,1978	16.64
Dec. 6,1977	14.95	Feb. 23,1978	14.85
Dec. 21,1977	16.64	Mar. 29,1978	16.58
Jan. 17,1978	16.65	May 3,1978	pumping

21.36.16 NW NE SE Measured well depth: 193.0 ft.

Date	Depth to Water (ft)	Date	Depth to Water (ft)
Nov. 19,1977	176.13	Feb. 3,1978	176.79
Dec. 6,1977	175.72	Feb. 23,1978	177.51
Dec. 21,1977	175.30	Mar. 29,1978	175.22
Jan. 17,1978	176.36	May 3,1978	175.13

22.36. 6. SE NW SE Measured well depth: 200 ft.

Date	Depth to Water (ft)	Date	Depth to Water (ft)
Nov. 18,1977	170.86	Feb. 2,1978	171.15
Dec. 6,1977	171.19	Feb. 23,1978	170.74
Dec. 20,1977	171.18	Mar. 30,1978	172.17
Jan. 18,1978	171.51	May 3,1978	171.05

Table 4.--Water-level records of selected observation wells.

23.35. 6. SW SW SW Measured well depth: 149.5 ft.

Date	Depth to Water (ft)	Date	Depth to Water (ft)
Nov. 18,1977	141.92	Feb. 3,1978	142.2
Dec. 5,1977	140.13	Feb. 23,1978	139.98
Dec. 20,1977	142.12	Mar. 30,1978	141.57
Jan. 18,1978	141.23	May 4,1978	139.81

24.32.10. SW SE SW Measured well depth: 40 ft.

Date	Depth to Water (ft)	Date	Depth to Water (ft)
Nov. 18,1977	35.65	Feb. 2,1978	35.69
Dec. 5,1977	35.69	Feb. 24,1978	35.79
Dec. 20,1977	35.78	Mar. 30,1978	36.2
Jan. 17,1978	35.83	May 4,1978	36.95

24.34. 4. SE NW NW Measured well depth: 56 ft.

Date	Depth to Water (ft)	Date	Depth to Water (ft)
Nov. 18,1977	53.11	Feb. 2,1978	53.22
Dec. 5,1977	53.19	Feb. 24,1978	53.24
Dec. 20,1977	53.21	Mar. 30,1978	53.25
Jan. 18,1978	53.22	May 4,1978	53.26

that is likely to occur in wells located in various parts of the Eastside Roswell area.

Measurements were made on three wells in Chaves County. Well 10.27.7 showed significant changes during the five month period; this well taps the Rustler Formation, which generally yields only small quantities of water to wells. These fluctuations probably reflect the impact of well use on the aquifer, as well as the limited water-bearing capabilities. The total change of water level in well 14.27.16 was only 0.08 foot. This well taps alluvium in the Pecos River Valley and shows the dependability of water levels in that aquifer. Well 15.31.16 reflects minor seasonal water fluctuations in the deep aquifers in the central part of the Eastside area.

Five observation wells were established in Eddy County; all tap the Rustler Formation in Clayton Basin or Nash Draw. The general water-level trend shows a slight decline in late 1977 followed by a reversal and recovery of ground-water levels in early 1978. These fluctuations possibly relate to mining practices and discharge from the potash refineries. Additional data should confirm or deny this relationship.

Lea County observation wells tap several different aquifers. In general, the 15 observation wells in that county showed very little change in the water table during the period of observation. This reflects generally high aquifer-yield values and little effect from pumping. Several observation wells in the Ogallala show a consistent rise which reflects aquifer recovery following the 1977 irrigation season.

Measurements will be continued on the observation well network for the next several months. In most cases a minimum of a one-year record is needed to begin establishing relationships between water-table fluctuations and precipitation or other outside sources of influence.

Well Yields

Well yields are controlled by two primary factors: physical capability of the well structure, including the pump capacity, and aquifer characteristics.

Pump capacity is the upper limit of a well regardless of aquifer yield. Most stock wells use a wind-driven cylinder pump with a maximum capacity of about five gpm (gallons per minute). Consequently in the most productive aquifer a windmill has a maximum production of only about five gpm. A similar quantity of water would be produced from a very low-yielding aquifer. Therefore it is important to know the pump capability when evaluating well yields.

One of the primary purposes of this investigation was to establish the hydrologic characteristics of the aquifers in the Eastside Roswell area. In most areas it was possible to obtain sufficient information to generalize the anticipated aquifer yields (fig. 17). However, there are wide ranges in hydrologic parameters within each aquifer. Therefore it is possible to provide a general range of yields to be expected from wells in a particular area, but there may be considerable variation beyond the ranges given.

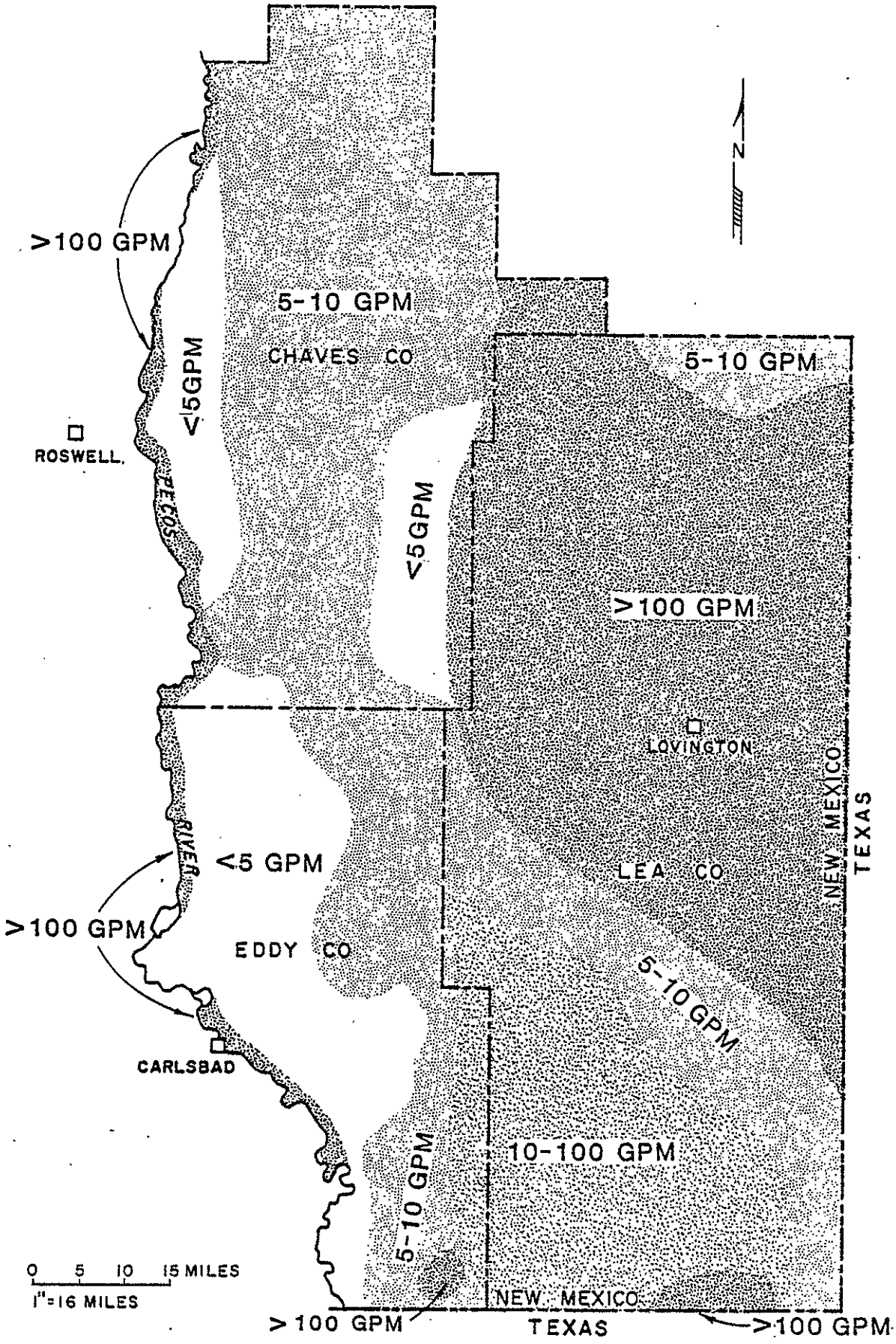


Figure 17.--Estimated yields from wells in the Eastside Roswell area.

Well yields do not consider chemical quality of water that would be produced from any given aquifer. Although aquifer yields may be similar in a particular area, the water may be potable or nonpotable. A good example of these variations is found near the L. E. Ranch in T. 11 S., R. 28 E., Chaves County. The well at the ranch headquarters produces relatively large quantities of water of adequate quality for most uses. This well, however, is surrounded by a large area characterized by low yields and poor quality. The data given on figure 17 are intended to be used as a regional guide to aquifer yields. More detailed local information should be obtained before exploratory wells are drilled and tested.

Yields less than five gpm.

Wells tapping aquifers along the east side of the Pecos River valley will generally yield less than five gpm. These aquifers consist of interbedded shale, siltstone, and very fine-grained sandstone. Well capacity increases with depth, but most stock wells in the area have not been drilled deep enough to adequately test the aquifer system. There also is a belt of low capacity wells that parallels Mescalero Ridge in southeastern Eddy County. Wells in this area are generally deep, of low capacity, and produce inferior quality water.

Yields of five to ten gpm.

Much of eastern Chaves and Eddy Counties is underlain by a series of Triassic deposits that contain fine-grained sandstone and red shale. These same formations are present as a southeast-trending belt at the base of Mescalero Ridge. Wells tapping these sandstone aquifers generally produce

from five to ten gpm; however, considerable range in well yields has been reported.

Yields of 10 to 100 gpm.

The Santa Rosa Sandstone, described in detail by Nicholson and Clebsch (1961, p. 57), is capable of producing from 10 to 100 gpm to wells in southern Lea County and adjacent Eddy County. This aquifer is underlain by limestone units in the Rustler Formation which are locally capable of producing rather large quantities of water. Quality of the water is a problem locally and will be discussed in the following section. Similar yields are obtained in north-eastern Lea County where the Ogallala is thin or absent, and wells must be drilled into this fine-grained sandstone.

Yields greater than 100 gpm.

The Ogallala aquifer in Lea County generally yields more than 100 gpm to wells; yields in excess of 1,000 gpm have been reported. There is also a small area in south-central Lea County where the community wells for Jal produce relatively large quantities of water. These thick deposits underlie an area of about 150 square miles in south-eastern Eddy County. Wells finished in these deposits yield more than 100 gpm, and potential yields are more than 1,000 gpm (Cooper, 1962).

Although the Pecos River generally abuts against the limestone bluffs which form the east side of the valley, locally the floodplain is tapped by large-capacity wells. In general, the Pecos River alluvium and the underlying limestone are capable of producing more than 100 gpm

to properly constructed wells.

Springs in the Eastside Roswell Area

Springs represent natural discharge points for ground water. During this study 19 springs were catalogued (Table 5). Most of these were visited during the fieldwork phase of the study; where possible the discharge was measured. In some instances the discharge was estimated or obtained from published information.

Most of the springs in the Eastside area are caused by the intersection of the water table with the land surface. Most of the springs along Mescalero Ridge--San Juan Mesa is a northern extension of the ridge--are the result of ground-water leakage from the Ogallala aquifer where erosion has exposed the base of the aquifer deposits. The Ogallala here is underlain by the impermeable Tucumcari Shale, which prevents the ground water from moving into the underlying formations.

Where erosion or collapse has lowered the land surface below the elevation of the shallowest aquifer, springs will also develop as leakage from the water table. This is the case for most springs along the east edge of the Pecos River, as well as those at Laguna Plata.

Roaring Spring and Major Johnson Springs are somewhat anomalous. According to Theis (1938, p. 252), these springs represent leakage from Lake McMillan, a few miles upstream from the spring sites.

Surprise Spring, at the north end of Salt Lake, has a somewhat different origin. Data collected during this study indicate that this

Table 5.-- Records of springs in Eastside Roswell area.

Location	County	Name	Topography	Altitude (ft)	Yield (gpm)	Aquifer
4.29. 7.431	Eddy	Billy Kid Spr.	San Juan Mesa	4500	8	Ogallala
5.25.24.441	Chaves	Sixmile Spr.	Sixmile Draw	3695	Seep	Alluvium
36.423	Chaves	Crockett Spr.	Crockett Draw	3707	Seep	Alluvium
6.27.16.311	Chaves	Unnamed	Bosque Draw	3985	2	Alluvium
30.331	Chaves	Bosque Spr.	Bosque Draw	3797	Seep	Alluvium
11.26. 2.444	Chaves	Comanche Spr	Comanche Draw	3558	60	Alluvium
11.31. 9.423	Chaves	Unnamed	Mescalero Ridge	4300	Seep	Ogallala
28.322	Chaves	Mescalero Spr.	Mescalero Ridge	4340	25	Ogallala
12.31. 4.433	Chaves	Unnamed	Mescalero Ridge	4315	Seep	Ogallala
9.211	Chaves	Unnamed	Mescalero Ridge	4318	3	Ogallala
16.421	Chaves	Graham Spr.	Mescalero Ridge	4287	5	Ogallala
22.133	Chaves	Unnamed	Mescalero Ridge	4302	Seep	Ogallala
18.27.21.232	Eddy	Chalk Bluff Spr.	Chalk Bluff Draw	3348	3	Chalk Bluff
19.36.26.224	Lea	Monument Spr.	Mescalero Ridge	3647	16	Ogallala
20.26.21.122	Eddy	Roaring Spr.	Pecos River	3225	100	Alluvium
21.300	Eddy	Maj. Johnson Spr.	Pecos River	3210	17,900	Alluvium
20.32. 2.322	Lea	Unnamed	Laguna Plata	3442	Seep	Dune Sand
2.414	Lea	Unnamed	Laguna Plata	3439	Seep	Dune Sand
23.29. 4.341	Eddy	Surprise Spr.	Laguna Grande	2950	±200	Rustler

spring represents a zone of weakness in the Rustler Formation. Large quantities of ground water in the form of brine moves southwestward beneath the axis of Clayton Basin and Nash Draw. This brine aquifer is under strong artesian head, and Surprise Spring is where this brine moves upward from the aquifer to the land surface.

Most springs are recognized by the amount of water produced and by the dependability of the discharge. However, many springs are overlooked by most observers because they are small or their discharge is seasonal. There are numerous seeps in Nash Draw which, if confined, would be considered springs; in most cases, however, these simply form marshy areas which lose large quantities of water by evapotranspiration. Numerous seeps along the edge of the Pecos River and Mescalero Ridge are not classified as springs throughout most of the year, but may discharge two or three gpm during wet seasons.

Chemical Quality

Water-quality standards set by the New Mexico Environmental Improvement Agency, as well as the recommended standards of the Public Health Service, were described in detail in the Chemical Quality portion of the Surface Water section of this report.

The chemical character of ground water is determined by the amount of soluble material in the aquifers through which the water moves. There is very little mineralization in precipitation, but soluble constituents are picked up by water as it moves over the land surface and through the

ground. In much of Chaves and Eddy Counties, water-bearing formations contain evaporite deposits which are quite soluble. The principal salts in the water-bearing formations are halite (NaCl) and gypsum ($CaSO_4 \cdot 2H_2O$).

In addition to natural salt contamination from evaporites, salts are being added to the aquifers by potash refining operations and from oilfield brines. In most cases, however, these contaminants are being added to already nonpotable water.

As required by the Statement of Work, 20 samples were collected for complete chemical analysis (Table 6). Two of these samples were collected from uncontaminated surface-water sources and have been described in detail in a preceeding section of the report. Seventeen samples were collected from wells considered to be representative of individual aquifers or hydrologic conditions at a particular site. One sample was collected at the discharge point of the IMC refinery.

Numerous water quality samples have been collected during previous studies in the area; 67 unpublished analyses were in the files of the Water Resources Division of the U. S. Geological Survey. These analyses, in addition to those made for this study, are given in Table 6. The sample locations are shown in figures 18, 19, and 20.

One of the more useful field guides to water quality is the technique of measuring the specific conductance of a sample in the field. A Wheatstone bridge is used to measure the conductivity of an unknown sample; units are reported in micromhos (umhos) at 25°C. Although there is no direct relationship between specific conductance and total dissolved solids (TDS), for field purposes the following relationship provides a reasonably

Table 6.--Chemical analyses of water. All units in mg/l unless designated. Sodium adsorption ratio and pH are dimensionless.

Location	Date of Collection	Temperature (°C)	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)	Total Dissolved Solids	Total Hardness as CaMg	pH	Source
CHAVES COUNTY																	
8.27.30.421	2/23/78	17	14.5	<0.02	360	268	930	38	91.5	0.03	2300	1300	4.75	6440	2000	6.88	BLM
8.30.17.433	2/22/78	17.5	29	<0.02	125	170	525	15	252	0.3	1300	600	7.25	3400	1011.9	7.53	BLM
9.26. Lake	6/3/71	21.5	.2		990	170	570	18	63		2900	1000	.5	5680	3200	7.5	USGS
9.31.26.440	5/25/70				23	5.5			231		107	50	18	454	80	8.2	USGS
10.26. 7.132	2/22/78	16	13.5	<0.02	435	195	150	2.9	156.1	0.87	2150	150	3.4	3460	1850.7	7.18	BLM
10.31.26.334	2/22/78	16	29.5	<0.02	62	13	50	1.8	146.7	0.37	168	23	2.65	468	208	7.73	BLM
11.26. Lake	6/3/71	23	.9		940	110	480		60	0	2500	950	.7	5030	2800	7.3	USGS
11.26. Lake	6/3/71	20	4.1		1000	370	1800	12	128	0	300	3800	1.4	10,100	4000	7.6	USGS
11.26. Lake	6/3/71	20	5.8		760	170	530	4.7	95		2200	1100	1.1	4820	2600	7.9	USGS
11.26. Lake	6/3/71	20	.6		1000	390	2600	16	132	0		4900		12,200	4100	7.6	USGS
11.26. Lake	6/3/71	24.5	.3		250	1900	5600	78	267	0	9600	8000	5.5	25,600	8400	7.3	USGS
11.26. Lake	6/3/71	21.5	1.1		920	320	2700	14	142	0	3300	4100	1.6	11,400	3600	7.7	USGS
11.26.14.44114	6/7/71	25	21		570	110	51	5.5	140	0	1800	74	.9	2710	1900	7.6	USGS
11.26.15.133	2/24/78	11		<0.02	360	795	595	37	227.7	1.8	4550	900	4.75	9016	4171.1	8.2	BLM
11.26.15.23222	6/7/71	18.5	25		530	200	110	5.6	142	0	2100	140	.8	3200	2100	7.9	USGS
11.26.24.4224	6/7/71	16.5	10		780	300	250	6.1	222	0	2900	430	1.1	4790	3200	7.7	USGS
11.26.25.33411	6/6/71	19.5	19		570	180	150	7.3	149	0	2100	200	1.0	3310	2200	7.5	USGS
11.26.26.22243	6/6/71	19.5	16		560	220	200	5.8	172	0	2300	200	1.2	3590	2300	7.6	USGS
11.26.34.34344	6/8/71	22	21		740	130	590	3.7	185	0	1800	1100	1.1	4480	2400	7.5	USGS
11.27.18.33334	6/7/71	18	27		560	110	69	6.8	127	0	1600	97	4.5	2590	1900	7.7	USGS
11.27.20.33112	6/7/71	22	29		600	35	24	4.0	161	0	1500	47	1.7	2360	1600	7.3	USGS
11.27.32.24132	6/7/71	18.5	35		530	310	41	2.6	147	0	2400	51	2.8	3470	2600	7.7	USGS
12.26.25.34221	6/6/71	19.5	23		600	150	120	5.4	185	0	1800	260	.7	3110	2100	7.8	USGS
12.27.17.44334	6/7/71	19	28		540	230	31	3.6	159	0	2200	37	1.3	3170	2300	7.8	USGS
12.27.32.12222	6/6/71	18.5	22		560	130	100	6.0	124	0	1800	170	1.2	2870	1900	7.6	USGS
12.27.33.3331	6/6/71	19.5	34		560	180	51	13.0	226	0	2000	44	1.3	3020	2100	7.7	USGS
14.27.14.242	2/24/78	14		<0.02	43	8	23	5.6	194.8	0.01	30	19	1.5	236	140.3	7.6	BLM
14.27.30.311	2/22/78	17	13	<0.02	535	192	1450	5.9	251.2	0.02	2850	1900	4.25	7912	2916.5	7.18	BLM
EDDY COUNTY																	
16.31. 2.122	12/9/48				78	53	38		158		38	82		478	330		G-W Rp3
17.27.11.110	12/21/48				616	118	25		185		1780	33		2690	2020		G-W Rp3
17.28.14.220	12/6/48				660	161	393		150		1810	815		3920	2310		G-W Rp3

Table 6.--Chemical analyses of water. All units in mg/l unless designated. Sodium adsorption ratio and pH are dimensionless.

CHAVES COUNTY

Location	Total Alkalinity	Sodium Adsorption Ratio	Boron (B)	Cadmium (Cd)	Lead (Pb)	Manganese (Mn)	Arsenic (As)	Selenium (Se)	Gross Alpha Radiation pc/l	Gross Beta Radiation pc/l	Mercury
8.27.30.421	78	9.0	0.45	<0.01	<0.02	<0.01	<0.05	<0.01	45±51	28± 9	0.0002
8.30.17.433	215	7.1	13	<0.01	<0.02	<0.01	<0.05	<0.01	85±28	18±9	0.00026
9.26. Lake	52	4.4									
9.31.26.440	189	6.6									
10.26. 7.132	133	1.5	1.9	<0.01	<0.02	<0.01	<0.05	<0.01	19±20	54±12	0.0016
10.31.26.334	125	1.5	1.3	<0.01	<0.02	<0.01	<0.05	<0.01	15± 8	18±11	0.0018
11.26. Lake	49	3.9									
11.26. Lake	105	12									
11.26. Lake	78	4.5									
11.26. Lake	108	18									
11.26. Lake	219	27									
11.26. Lake	116	20									
11.26.14.44114	115	.5									
11.26.15.133	194	4.0	3.0		<0.02	<0.01	<0.05	<0.01			
11.26.15.23222	116	1.0									
11.26.24.4224	182	1.9									
11.26.25.33411	122	150									
11.26.26.22243	141	1.8									
11.26.34.34344	22	5.3									
11.27.18.33334	104	69									
11.27.20.33112	132	.3									
11.27.32.24132	121	.4									
12.26.25.34221	19.5	1.1									
12.27.17.44334	130	.3									
12.27.32.12222	102	1.0									
12.27.33.3331	185	.5									
14.27.14.242	166	0.84	1.3		<0.02	<0.01	<0.05	<0.01			
14.27.30.311	214	13.8	1.0	<0.01	<0.02	<0.01	<0.05	<0.01	19±17	21±11	0.0012

EDDY COUNTY

16.31. 2.122
17.27.11.110
17.28.14.220

Table 6.--Chemical analyses of water. All units in mg/l unless designated. Sodium adsorption ratio and pH are dimensionless.

Location	Date of Collection	Temperature (°C)	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)	Total Dissolved Solids	Total Hardness as CaMg	pH	Source
17.31.34.000	12/6/48				106	41	138		265		423	54		893	433		G-W Rp3
18.29.24.300	4/28/50		25		397	58	43		167		911	110	1.4	1730	1230		G-W Rp3
18.30.00.000	12/21/71		29	10	1200	430	2900	110	7.5	0	2400	6300	1.5	13,400	4800	7.5	USGS
18.30.22.34421	12/21/71		29	20	1000	410	2200	78	129	0	2300	4800	2.2	10,900	4200	7.5	USGS
19.28. 2.122	12/13/48				412	195	987		142		1300	1770		4740	1830		G-W Rp3
19.28.13.210	4/28/50		32		234	101	538		202		538	1010	1.6	2570	1000		G-W Rp3
19.28.18.120	1/20/50		32		84	15	7.1		219		78	8		350	271		G-W Rp3
19.29.13.410	12/21/48				628	104	171		151		1820	240		1050	1990		G-W Rp3
19.29.20.220	12/21/48				628	35	53		223		1520	33		2400	1710		G-W Rp3
19.30. 9.	2/23/78	21	6.6	.02/	1810	2125	66,500	7625	136.2	.02	4350	131,517.8	5.4/	244,484/	13,266.4/	6.48/	BLM
19.31.28.330	5/1/50		23		139	54	56		219		398	55	.9	855	569		G-W Rp3
19.31.33.110b	5/1/50		40		504	303	46		191		2160	60	2.0	3340	2500		G-W Rp3
20.28.28.200	1/20/50		35		620	124	168		153		1710	348	3.1	3110	2060		G-W Rp3
20.29. 3.433	4/29/50		53		656	20	7.6		155		1490	18	1.3	2360	1720		G-W Rp3
20.30. 3.223	5/1/50		44		632	39	24		174		1540	29	1.1	2400	1740		G-W Rp3
20.30. 3.424	5/1/50		71		648	105	90		160		1670	255	2.9	2930	2050		G-W Rp3
20.30. 7.	2/23/78	19	26.5		<0.01	25	35		161.1	0.1	1300	70	2.4	2624	1039.3	7.22	BLM
20.30. 8.3	2/24/78	21	19.5		1575	405	4375	265	93.4	0.05	2400	8634.3	4.9/	23,364	5599.8	7.09	BLM
20.30.16.420	5/1/50		38		636	105	260		114		1860	380	1.4	3370	2030		G-W Rp3
20.30.20.130	5/1/50		36		680	68	177		166		1590	388	1.1	3050	1980		G-W Rp3
20.30.32.000	12/29/71	25	18	0	1400	560	13,000	350	392	0	4400	22,000	4.3	43,000	5800	7.2	USGS
20.30.33.440	5/1/50		33		662	152	348		108		1960	620	2.0	3860	2280		G-W Rp3
20.31.13.440	12/22/48				408	626	931	0	248		4280	635		7080	3590		G-W Rp3
20.31.16.240	12/22/48				132	190	707		301		1190	785		3220	1110		G-W Rp3
21.27. 9.330	1/25/50		31		275	38	.5		229		608	5	.7	1090	842		G-W Rp3
21.27.24.23243	4/12/75		.7		1300	.8	230	110	1920		1200	740	.4	4540	3300		USGS
21.28.18.130	1/30/50		34		574	423	747		237		3530	642	3.2	6090	3170		G-W Rp3
21.29. 2.142	2/23/78	20.5	10.5	<0.02/	2400/	1625	23,750	2500	124.4	0.05	4000	48,020	5.14/	96,384/	12,681.3/	6.95	BLM
21.29.11.421	2/23/78	18	15.5	<0.02/	525	130	360	12.5	93	0.03	1900	580	4.75	4204	1846	6.82	BLM
21.29.12.400	4/18/75						27,000	3800				56,000					USGS
21.29.18.130	5/3/50		28		694	230	571		110		2220	1060	2.6	4880	2680		G-W Rp3
21.31. 7.331	9/14/72		37		570	220	81	4.8	77	0	2200	99	.5	3260	2300	7.7	USGS
21.31.18.411	9/14/72	21	55		450	57	25	2.2	81	0	1000	220	1.1	1870	1400	7.5	USGS

Table 6.--Chemical analyses of water. All units in mg/l unless designated. Sodium adsorption ratio and pH are dimensionless.

Location	Total Alkalinity	Sodium Adsorption Ratio	Boron (B)	Cadmium (Cd)	Lead (Pb)	Manganese (Mn)	Arsenic (As)	Selenium (Se)	Gross Alpha Radiation pc/l	Gross Beta Radiation pc/l	Mercury
17.31.34.000											
18.29.24.300						10					
18.30.00.000	88	18				10					
18.30.22.34421	106	15									
19.28. 2.122											
19.28.13.210											
19.28.18.120											
19.29.13.410											
19.29.20.220											
19.30. 9.	116	251	4.8	<0.01	2.1	0.2	<0.05	<0.01	270±484	3640± 180	0.00001
19.31.28.330											
19.31.33.110b											
20.28.28.200											
20.29. 3.433											
20.30. 3.223											
20.30. 3.424											
20.30. 7.	139	0.47	0.2	<0.01	<0.02	<0.01	<0.05	<0.01	18±19	45±12	<0.00001
20.30. 8.3	79.6	25.4	0.8	<0.01	<0.02	<0.01	<0.05	<0.01	2±6	7±11	0.0006
20.30.16.420											
20.30.20.130											
20.30.32.000	322	74	3700								
20.30.33.440											
20.31.13.440											
20.31.16.240											
21.27. 9.330											
21.27.24.23243	1570	3.5									
21.28.28.130	106	118	2.5	<0.01	2.1	<0.01	<0.05	0.01	<433	2380±160	0.00018
21.29. 2.142	80	3.6	0.8	<0.01	<0.02	<0.01	<0.05	0.01	67±33	15±9	0.0014
21.29.11.421											
21.29.12.400			1200								
21.29.18.130											
21.31. 7.331	63	.7									
21.31.18.411	66	.3									

Table 6.--Chemical analyses of water. All units in mg/l unless designated. Sodium adsorption ratio and pH are dimensionless.

Location	Date of Collection	Temperature (°C)	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)	Total Dissolved Solids	Total Hardness as CaMg	pH	Source
21.31.35.4214	9/14/75		16	10	600	440	120,000	4500	2600	0	16,000	180,000	.5	327,000	3300	6.0	USGS
22.29.13.2	2/22/78	23	2.25	<0.02	350	3750	106,250	10,000	179.6	0.14	8250	188,400	7.4	361,380/16,308.9		7.23	BLM
22.29.33.240	12/48				230	118	168		272		602	406		1660	1060		G-W Rp3
22.30. 6.344	5/20/59				1020	395	5950		149		2880	9920		20,200	4170		G-W Rp3
22.30. 6.444	9/19/72	22	22	50	950	210	2000	150	123	0	2100	4000	.8	9650	3200	7.3	USGS
22.30.10.311	9/12/72	20	34	9	650	13	8.0	5.4	213	0	1400	26	.9	2260	1700	7.6	USGS
22.30.10.31	4/30/50		33		640	21	2.5		150		1470	8	.9	2280	1680		G-W Rp3
22.30.18.110	4/18/75							12,000			56,000	100,000					USGS
22.30.19.1		16	16	<.02	2610	1175	21,000	3750	110.3	0.08	4000	41,142.6	4.9	83,388/11,353		7.15	BLM
22.30.30.240	4/30/50		42		580	222	84		132		2150	123	2.4	3290	2360		G-W Rp3
22.31.15.130	9/12/72	29	16	9	75	64	210	4.2/201		0	590	110	1.2	1170	450	8.0	USGS
22.31.29.2213	6/4/76	23	1.3/11,000		890	270	5700	70	92	0	3900	8000	2.8	189,000/3300		7.4	USGS
22.31.29.4224	8/10/76		5	530,000	760	210	4300	100	1150	0	2600	6100	1.6	14,700/2800		7.4	USGS
22.31.34.321	12/18/75	21	22	170,000/10,000/2000			5600	920	70	0	800	110,000	.1	180,000/33,000/6.5			USGS
23.29. 4.244	2/24/78	21.5	11.75	.02	2025/3000		37,500	3625	150.2	0.4	7100	75,778.6	7.2	149,644/17,404/7.77			BLM
23.29. 4.341	2/24/78	19	4.5	<0.02	425	5250	91,875	11,812.5/169		0.25	5500	178,697	7.5	334,892/22,670/7.5			BLM
23.29. 4.430	4/19/75						110,000	11,000				173,000					USGS
23.30. 2.440	4/30/50		31		604	146	437		114		2150	510	1.8	3940	2110		G-W Rp3
23.30. 2.444	9/20/72		30	9	580	130	430	23	111	0	2100	510	2.4	3860	2000		USGS
23.30.21.122	4/12/48				624		473		160		2160	620	168	4150	2250		G-W Rp3
23.30.21.122	9/20/72	21.5	38	9	620	150	370	9.4/176		0	2100	500	2.4	3900	2200	7.7	USGS
23.31. 7.220	4/12/48				554	199	201		266		1560	410		3330	2220		G-W Rp3
23.31. 7.240	9/20/72	23			99	53	130	23	290	0	360	510			470	8.2	USGS
23.31.26.340	9/20/72	23			500	160	190	9.4/115		0	2000	500			1900	7.9	USGS
23.31.29.113	9/20/72	25			590	150	150	2.8/118		0	1800	86			2100	7.0	USGS
24.29.16.133	5/21/71	28	8.2	80	530	2300	100,000	4500	156	0	12,000	160,000	2.8	2790/11,000		6.9	USGS
25.29.32.211	5/1/49				1100	326	4920		101		1450	9360		17,200	4080		G-W Rp3
25.30. 2.000	5/1/49				86	31	47		175		177	78		512	342		G-W Rp3
25.30. 9.100	5/1/49				536	102	59		89		1710	22		2470	1760		G-W Rp3
25.30.21.330	5/1/49				132	46	220		160		339	360		1180	518		G-W Rp3
25.31.21.000	12/48				205	67	161		137		837	106		1450	787		G-W Rp3
26.29.22.330	3/25/75				81							2100					USGS
26.30. 8.110	12/48					32			200		199	141		662	334		G-W Rp3
26.31. 1.000	5/1/49				410	121	366		109		1500	470		2920	1520		G-W Rp3
26.31. 8.310	12/48				51	18	58		188		135	17		383	201		G-W Rp3

Table 6.--Chemical analyses of water. All units in mg/l unless designated. Sodium adsorption ratio and pH are dimensionless.

Location	Total Alkalinity	Sodium Adsorption Ratio	Boron (B)	Cadmium (Cd)	Lead (Pb)	Manganese (Mn)	Arsenic (As)	Selenium (Se)	Gross Alpha Radiation pc/l	Gross Beta Radiation pc/l	Mercury
21.31.35.4214	2130	908	3×10^6	750	4000	10,000	220	0	3400	5100	0
22.29.13.2	153	1563	14.2	<.01	1.6	0.25	<0.05	<0.01	90±450	3690±180	0.001
22.29.33.240											
22.30. 6.344											
22.30. 6.444	101	15				1,300					
22.30.10.311	175	.1				10					
22.30.10.31											
22.30.18.110			5300								
22.30.19.1	94	85.8	2.6	<0.01	0.8	0.04	<0.5	<0.01	270±484	2020±150	0.0001
22.30.30.240											
22.31.15.130	165	4.3									
22.31.29.2213	75	43	2200	0	28	2200	1	1			.0
22.31.29.4224	943	36	6300	150	2800	100,000	14	1			.9
22.31.34.321	57	134	60,000	280	2500	8200		0			12
23.29. 4.244	128	123.7	4.5	<0.01	1.55	0.1	<0.05	<0.01	433	1440±140	<0.00001
23.29. 4.341	144	265.5	11.8	<0.01	1.9	0.45	<0.05	<0.01	405±507	5340±200	<0.00001
23.29. 4.430			7600								
23.30. 2.440											
23.30. 2.444	91	4.2				60					
23.30.21.122											
23.30.21.122	144	3.5				20					
23.31. 7.220											
23.31. 7.240	238	2.6									
23.31.26.340	230	1.9									
23.31.29.113	97	1.4									
24.29.16.133	128	419	38,000								
25.29.32.211											
25.30. 2.000											
25.30. 9.100											
25.30.21.330											
25.31.21.000											
26.29.22.330			370								
26.30. 8.110											
26.31. 1.000											
26.31. 8.310											

Table 6.--Chemical analyses of water. All units in mg/l unless designated. Sodium adsorption ratio and pH are dimensionless.

LEA COUNTY

Location	Date of Collection	Temperature (°C)	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)	Total Dissolved Solids	Total Hardness as CaMg	pH	Source
11.33.17.144	2/22/78	16.5	16.5	<0.02	55	16	56	1.9	165.3	0.2	160	50	1.8	556	203.2	7.55	BLM
11.34.31.422	2/22/78	15	22.5	<0.02	142	24.5	118	3.2	223	0.2	395	140	2.5	1000	455.4	7.2	BLM
14.36.32.4221	2/23/78	16	29	<0.02	59	7	45	1.9	159.6	0.26	127.5	37	2.8	464	176	7.53	BLM
14.37.31.333	8/26/70	19										50					USGS
15.36. 8.111	8/26/70											34					USGS
16.34.10.223	2/23/78	15	16.6	<0.02	<0.01	6.8	34	1.1	162	0.1	37.5	40	2.45	244	122.9	7.48	BLM
16.38.34.131	8/26/70	19.5										164					USGS
17.32. 3.140	7/21/54						34		194	0	25	17			136		G-WRp6
17.33.18.322	7/19/54						27		177	0	40	23			160		G-WRp6
17.38. 7.111	8/26/70	19										58					USGS
19.32. 8.200	12/9/58		19		10	13	131		306	0	74	21	1.2				G-WRp6
19.33.26.244	9/25/72		54	9	110	51	380	4.1	222	0	640	280	4.4	1700	480	8	USGS
19.34. 9.114	12/9/58		41		430	65	675		189	0	1680	560	.3	3680	1340	7.1	G-WRp6
19.34.31.232	9/25/72		12	9	42	28	590	2.1	208	0	930	290	1.2	2000	220	8	USGS
20.32.24.333	9/11/72	20.5	58	9	52	34	65	3.1	348	0	62	42	1.2	493	270	8	USGS
20.32.36.214	9/18/72	19	81	9	130	81	160	2.5	306	0	260	290	2.6	1270	660	7.8	USGS
20.33.24.124	9/22/72		15	9	7	5.4	320	2.4	374	15	210	130	2.4	892	40	8.7	USGS
20.34. 4.444	2/10/72		10	30	260	130	2000	5.1	138	0	3300	1500	1.2	7280	1200	8	USGS
20.34.14.133	10/2/71		11	20	49	28	860	3.1	283	0	800	770	2.2	2670	240	8.1	USGS
20.34.17.334	10/2/72		12	9	77	42	860	10	287	0	1300	480	4.0	2930	370	8.1	USGS
20.34.22.224	10/2/72		10	9	30	19	840	2.9	288	0	750	730	2.2	2530	150	8.2	USGS
20.34.34.432	10/2/72		45	50	56	14	16	4.0	191	0	33	21	.9	297	200	7.9	USGS
20.36.15.421	9/9/58								292	0	2250	1240			1720	7.4	G-WRp6
20.36.15.421	3/30/54								304	0	1840	1080					G-WRp6
20.37. 4.111	4/2/54								423	0	67	450					G-WRp6
20.37. 4.111	4/22/55								438	0	78	425			670	7.2	G-WRp6
20.37. 4.111	9/9/58								318	0	108	425			460	7.3	G-WRp6
20.37. 4.221	4/22/55								269	0	90	51			278	8.1	G-WRp6
20.37. 4.221	9/9/58								255	0	87	47			246	8	G-WRp6
20.38.19.320	4/2/54								227	0		39					G-WRp6
20.38.19.320	9/9/58								104	0	23	49			68	8.1	G-WRp6
21.32. 6.111	9/18/72	21.5															USGS
21.33. 2.231	9/4/58								336	0	95	20			22	8	G-WRp6
21.33. 2.420	9/22/72	21.5	19	9	92	6.4	9.7	3.9	197	0	25	52	.1	341		7.5	USGS

Table 6.--Chemical analyses of water. All units in mg/l unless designated. Sodium adsorption ratio and pH are dimensionless.

LEA COUNTY

Location	Total Alkalinity	Sodium Adsorption Ratio	Boron (B)	Cadmium (Cd)	Lead (Pb)	Manganese (Mn)	Arsenic (As)	Selenium (Se)	Mercury (Hg)	Gross Alpha Radiation pc/l	Gross Beta Radiation pc/l
11.33.17.144	140.8	1.7	0.15	<0.01	<0.02	<0.01	<0.05	<0.01	0.0014	3±7	12±11
11.34.31.422	190	2.4	<0.01	<0.01	<0.02	<0.01	<0.05	<0.01	0.0008	29±11	13±11
14.36.32.4221	136	1.1	1.3	<0.01	<0.02	<0.01	<0.05	<0.01	0.0018	<5	2±11
14.37.31.333											
15.36. 8.111											
16.34.10.223	138	1.3	1.1	<0.01	<0.02	<0.01	<0.05	<0.01	0.0012	2±4	23±11
16.38.34.131											
17.32. 3.140											
17.33.18.322											
17.38. 7.111											
19.32. 8.200											
19.33.26.244	182	7.5			0						
19.34. 9.114											
19.34.31.232	171	17				40					
20.32.24.333	285	1.7									
20.32.36.214	251	2.7									
20.33.24.124	332	22				0					
20.34. 4.444	113	25				240					
20.34.14.133	232	24				50					
20.34.17.334	235	20				10					
20.34.22.224	236	30				20					
20.34.34.432	157	.5				0					
20.36.15.421											
20.36.15.421											
20.37. 4.111											
20.37. 4.111											
20.37. 4.111											
20.37. 4.221											
20.37 4.221											
20.38.19.320											
20.38.19.320											
21.32. 6.111											
21.33. 2.231											
21.33. 2.420	162	.3				0					

Table 6.--Chemical analyses of water. All units in mg/l unless designated. Sodium adsorption ratio and pH are dimensionless.

Location	Date of Collection	Temperature (°C)	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)	Total Dissolved Solids	Total Hardness as CaCO3	pH	Source
21.33. 2.422	6/28/54								116	0	17	1020					G-WRp6
21.33. 2.422	4/22/55						2.5		115	0	20	1170			1770	7.3	G-WRp6
21.33. 2.422	9/4/58								109	0	43	1640			2400	7.1	G-WRp6
21.33. 2.442b	4/22/55								345	0	15	12			304	7.4	G-WRp6
21.33. 2.442b	9/4/58								354	0	18	7			306	7.5	G-WRp6
21.33. 4.434	10/2/72		42	20	62	25	78	8.6	339	0	76	45	1.4	528	260	7.5	USGS
21.33.18.114	9/12/72		36	30	69	9.6	5.3	3.5	115	0	24	17	.4	323	210	7.8	USGS
21.35.27.321a	12/8/58								301	0	170	44			204	8.0	G-WRp6
21.36. 9.222	7/27/54				17	7.8	280		434	0	216	65		803	74		G-WRp6
21.37.33.110	7/18/42		73		45	25	96		182	25	108	68	3.5	543	216		G-WRp6
21.37.33.111	9/9/58								240	0	108	61			186	7.7	G-WRp6
21.37.33.210	8/1/42		16		50	31	563		360	0	855	208	1.8	1900	252		G-WRp6
21.37.33.233	7/31/54				40	20	100		247	0	97	50	3.6	445	182		G-WRp6
21.38. 6.133a	9/9/58								257	0	182	156			460	7.4	G-WRp6
21.38. 6.133b	12/7/53								253	0	119	105					G-WRp6
22.32.14.323	9/13/72		25		28	21	54	4.7	242	0	60	7.1	2.4	330	160	8.0	USGS
22.33.13.231	9/21/72	21	14		66	44	440	4.2	189	0	810	260	1.9	1740	350	8.1	USGS
23.32.21.241a	9/21/72		17	9	29	34	75	2.0	311	0	89	15	1.8	427	210	8.1	USGS
23.33.12.312	9/21/72														427		USGS
23.34.31.340	12/4/53				32	26	163		287	0	219	52	1.4	635	187		USGS
23.36.31.233	3/13/53		49		127	15	53		203	0	102	132	.6	620	378		G-WRp6
24.37.10.123	3/11/53		13		121	93	402		277	0	934	252	1.6	1950	684		G-WRp6
25.36.24.31214	10/26/72	22	9.4		34	36	130	6.1	366	0	170	47	2.9	615	230	7.7	USGS
25.37.13.312a	9/8/58								203	0	112	75			250	7.8	G-WRp6
25.37.15.223	2/26/53		57		307	98	271		146	0	737	610	1.7	2160	1170		G-WRp6
25.37.19.221	2/5/53		12		55	49	170		376	0	280	71	2.6	825	338		G-WRp6
25.37.19.240	7/18/42		9.3	.14	34	43	175		264	25	286	54	2	759	262		G-WRp6
25.37.20.310	7/18/42		65		102	32	77		150	13	145	168	1.3	685	386		G-WRp6
25.37.20.310	9/8/58								191	0	200	145			398	7.5	G-WRp6
25.38.19.342	5/6/52		62		66	35	73		219		155	88		608			G-WRp6
26.33. 3.444	12/12/58								306	0	110	57			436	7.3	G-WRp6
26.35.13.222	12/12/58								207	0	233	73			336	7.3	G-WRp6

Table 6.--Chemical analyses of water. All units in mg/l unless designated. Sodium adsorption ratio and pH are dimensionless.

Location	Total Alkalinity	Sodium Adsorption Ratio	Boron (B)	Cadmium (Cd)	Lead (Pb)	Manganese (Mn)	Arsenic (As)	Selenium (Se)	Mercury (Hg)	Gross Alpha Radiation pc/l	Gross Beta Radiation pc/l
21.33. 2.422											
21.33. 2.422											
21.33. 2.422											
21.33. 2.442b											
21.33. 2.442b											
21.33. 4.434	278	2.1				0					
21.33.18.114	94	.2				0					
21.35.27.321a											
21.36. 9.222											
21.37.33.110											
21.37.33.111											
21.37.33.210											
21.37.33.233											
21.38. 6.133a											
21.38. 6.133b											
22.32.14.323	198	1.9				0					
22.33.13.231	155	10				10					
23.32.21.241a	255	2.2				0					
23.33.12.312						10					
23.34.31.340											
23.36.31.233											
24.37.10.123											
25.36.24.31214	300	3.7									
25.37.13.312a											
25.37.15.223											
25.37.19.221											
25.37.19.240											
25.37.20.310											
25.37.20.310											
25.38.19.342											
26.33. 3.444											
26.35.13.222											

accurate guide to TDS:

TDS (mg/l) = specific conductance (umhos @ 25°C) x 0.65

During the data collection phase of this study, specific conductance was measured whenever possible; values are listed in Appendix A and given on the water-quality maps (figs. 18, 19, 20). Sampling of stock wells (windmills) often depended on the wind conditions; field work in Lea County did not coincide with the irrigation season, consequently most of the irrigation wells were shut down. The accuracy of this technique is greatest in fresh water; highly mineralized samples cannot be evaluated using this technique.

Evaluation of the water quality data indicates that there are four principal water-quality units tapped by wells in the Eastside area: Rustler Formation, Triassic rocks, the Ogallala aquifer, and alluvium. Each is characterized by a somewhat different type of water; there is also abundant evidence of mixing of water between aquifers.

Samples typical of the Rustler Formation are primarily calcium sulfate type water (fig. 21). Several samples were predominately sodium chloride type, but this probably represents contamination from underlying brine aquifers, which are strongly sodium chloride type. Total mineralization of Rustler water generally exceeds 1,500 mg/l TDS, and samples in excess of 5,000 mg/l are not uncommon.

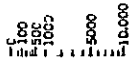
Samples from Triassic rocks are somewaht unusual in distribution of cations, with calcium, magnesium, and sodium present in nearly equal proportions (fig. 22). The principal anion is sulfate. Total mineralization

9-2661 USGS-WRD, Nov. 1951

WATER-ANALYSIS DIAGRAM

Area of circle indicates dissolved solids in parts per million, thus:

Scale of diameters



Scale of radii

Waters of high concentration plotted at condensed scale, above scale values being multiplied by 10 (or other constant as indicated). If two scale values are used on one graph, condensed-scale plottings are shaded.

State. . . New Mexico. . . . . .

Subarea. . . . Eastside Roswell

Number	Date	Dissolved solids (ppm)	Aquifer

Plotted by. . . . . D.G.B.

Checked by . . . . . T.E.K.

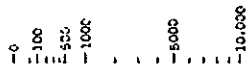
Date. . . . 3-16-78. . . .

Figure 21.--Ion distribution in samples from the Rustler Formation. Samples selected from analyses in Table 6.

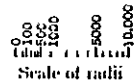
9-260d USGS-WRD, Nov. 1954

WATER-ANALYSIS DIAGRAM

Area of circle indicates dissolved solids in parts per million, thus:



Scale of diameters



Scale of radii

Waters of high concentration plotted at condensed scale, above scale values being multiplied by 10 (or other constant as indicated). If two scale values are used on one graph, condensed-scale plottings are shaded.

State. . New Mexico. . . . .

Subarea. . East side Roswell

Number	Date	Dissolved solids (ppm)	Aquifer

Figure 22.--Ion distribution in samples from Triassic rocks. Samples selected from analyses in Table 6.

Plotted by. . . D . G . B. . . .

Checked by . . T . E . K . . .

Date. 3-17-78

in samples from Triassic rocks is generally lower than that in the Rustler; however, most samples contain more than 1,000 mg/l TDS.

Water samples from the Ogallala aquifer are the least mineralized in the Eastside area. The water is basically a calcium-sodium bicarbonate type water (fig. 23). In many samples, the carbonate-bicarbonate, sulfate, and chloride ions are present in nearly equal proportions. The total dissolved solids usually are less than 1,000 mg/l.

Samples from alluvial aquifers in the area show varying degrees of mineralization. This is because much of the water in these aquifers is derived from surface-water sources, such as the Pecos River, but in other instances the recharge originates from spring discharge, which is locally very highly mineralized. Sodium is the principal cation found in alluvial samples. The predominant anions are sulfate and chloride (fig. 24).

Analyses of water samples from the Eastside area indicate that very little of the ground water in the region meets the water quality standards set by the Environmental Improvement Agency. Although very few samples exceed the limits set for minor elements such as arsenic, chromium, lead, etc., most samples exceed the limits recommended for total dissolved solids and sulfate.

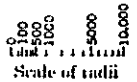
There are 165 chemical analyses of water samples listed in Table 6. Seventy-five percent of these samples exceed the recommended maximum concentration of 1,000 mg/l TDS. The recommended maximum concentration of 600 mg/l sulfate is exceeded in 63 percent of the samples; the recommended maximum for chloride of 250 mg/l is exceeded in 49 percent of

9-2661 USGS WRD, Nov. 1954

WATER-ANALYSIS DIAGRAM

Area of circle indicates dissolved solids in parts per million, thus:

Scale of diameters



Scale of radii

Waters of high concentration plotted at condensed scale, above scale values being multiplied by 10 (or other constant as indicated). If two scale values are used on one graph, condensed-scale plottings are shaded.

State. New Mexico

Subarea... Eastside Roswell

Number	Date	Dissolved solids (ppm)	Aquifer

Plotted by T. E. K.

Checked by D. G. B.

Date 3-16-78

U.S. GOVERNMENT PRINTING OFFICE : 1961 O—610328

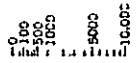
Figure 23.--Ion distribution in samples from the Ogallala aquifer. Samples selected from analyses in Table 6.

9-2666 USGS-WRD, Nov 1951

WATER-ANALYSIS DIAGRAM

Area of circle indicates dissolved solids in parts per million, thus:

Scale of diameters



Scale of radii

Waters of high concentration plotted at condensed scale, above scale values being multiplied by 10 (or other constant as indicated). If two scale values are used on one graph, condensed-scale plottings are shaded.

State New Mexico

Subarea Eastside Roswell

Number	Date	Dissolved solids (ppm)	Aquifer

Plotted by D.G.B.

Checked by T.E.K.

Date 3-16-78

U.S. GOVERNMENT PRINTING OFFICE, 1951 O—919760

75

Figure 24 .-- Ion distribution in samples from alluvial aquifers. Samples selected from analyses in Table 6.

the samples. On the basis of these criteria, set by the EIA, fully 75 percent of the ground water in the Eastside Roswell area is non-potable. In most cases, water from the Ogallala and alluvial aquifers would qualify as potable. The Rustler and Triassic samples, as well as the brines from deeper aquifers, are nonpotable.

It should be noted that these limits are "recommended" concentrations; water exceeding these various limits is used throughout New Mexico. For example, samples from municipal supplies at Roswell, Dexter, Hagerman, and Lake Arthur all exceed the recommended limits for total dissolved solids.

The cathartic effect of sulfate has been discussed in a previous section describing water quality in surface water; the reader is referred to the section of this report describing the chemical quality of surface water. The upper recommended limit for chloride is 250 mg/l. Concentrations greater than that amount would be harmful to persons on a "salt-free" diet, however, taste tolerance generally sets the limits which the average person will consume. Chlorides in water may impart a salty taste at concentrations as low as 100 mg/l, although in some water 700 mg/l may not be noticeable (Anon., 1950). Chloride concentrations of 1,500 mg/l are reported to be safe for livestock, chickens, and wildlife (Anon., 1956); levels in excess of 4,000 mg/l may be injurious (Adams, 1940).

In general, water throughout most of the Eastside Roswell area would not meet the recommended maximum concentrations set by the EIA.

Nevertheless, when consumed in small to moderate quantities, the water should not be injurious to humans, livestock, or wildlife. The taste tolerance to chlorides would generally prevent humans from consuming large quantities.

Water from the alluvium and/or the Ogallala should be suitable for irrigation; water from other aquifers in the area would not.

Due to variations in chemical quality of water, local tests should be made prior to establishing a permanent water supply.

SUMMARY

1. Very little of the Eastside Roswell Area is included in drainage basins which discharge run-off from the area. Most run-off enters undrained sinks and either evaporates or percolates into the ground.

2. The climate of Eastside Roswell Area has undergone a long-term drying trend. Channels are generally underfit to their drainage systems.

3. Channel geometry has been used to determine flood-flow characteristics. Flood-frequency hydrographs could not be constructed with the existing data.

4. Ground water in the Eastside Roswell Area is generally of poor quality. Run-off impounded in charcos or ephemeral ponds is generally of good quality.

5. The water table of the Eastside Roswell Area is illustrated in detail in this report.

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A P P E N D I X A

EXPLANATIONS FOR USE IN RECORDS OF WELLS, APPENDIX A

Location : See Introduction for explanation of well-numbering system.

Depth of well and Depth to Water : Reported depths are given to nearest foot; measured depths are given to nearest tenth or hundredth of a foot.

Aquifer : Qtal=Quaternary; Ogll=Ogallala; Trsc=Triassic; Rslr=Rustler; Clbd=Carlsbad; Ckbf=Chalk bluff; Dckm=Dockum; Vlfl=Valley fill; Trcl=Tertiary; Cplm=Capitan lime; Tnsl=Tansill; Rbsa=Roswell Basin Shallow Aquifer; Salm=San Andres Limestone: Gsam=Glorieta-San Andres Limestone; Sadr=San Andres Limestone of Manzano.

Remarks : S.C.=Specific Conductance; est.=estimated; gpm=gallons per minute.

E D D Y C O U N T Y

Records of wells from Eddy County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
16.27.27.133	Domestic		180	70	Qtal ?	Apr.,1963	
27.331	Irrigation	3493	1070	27	Ckbf	Jan.,1963	
36.212	Stock	3454	61.4	47.1	Ckbf	Oct.13,1977	S.C.>8000;17°C
16.28. 3.210	Stock	3576	30.0	8.17		Oct.14,1977	S.C.4600;17°C
12.212	Stock	3579	49.8	47.22		Oct.14,1977	S.C.4100;21°C
16.30.24.122	Stock	3828	380.1	330.69		Oct.17,1977	S.C.1560;21.5°C
16.31. 2.122	Stock		320	290+	Ogll ?	Dec.9,1948	
2.12124	Stock/Domestic	4116		304.618	Ogll	Mar.30,1971	
14.24444	Stock	4396		297.40	Ogll	Mar.30,1971	
14.300	Stock			113.4	Dckm ?	Dec.9,1948	
22.44414	Stock	4250	167	153.40	Ogll	Mar.30,1971	
23.443	Stock	4240	161.8	155.02			
17.27. 3.120	Aband. Stock			130+	Ckbf	Dec.1,1948	
5.444		3354	80	30		Oct.16,1952	
11.110	Stock			18.1	Ckbf ?	Dec.1,1948	
12.413	Irrigation	3472	250	115		Apr.,1954	
16.344	Domestic		1042	260		Jan.,1960	
16.344	Domestic	3435		182.36		Jan.18,1966	
16.344	Domestic	3260	1220	175		Mar.15,1960	
17.4	Domestic	3386	300	90			
18.234	Domestic	3312	138	111	Qtal	Feb,1963	
32.313		3420		78.16		Jan.12,1973	
32.32		3444	330	140		Aug.,1956	
32.320		3420		92.68		Jan.9,1964	
17.28. 2.240	Stock			27.6	Dckm ?	Dec.1,1948	

Records of wells from Eddy County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
17.28.14.220	Stock/domestic			80	Dckm ?		
19.200	Stock			224.3	Ckbf/Rslr	Dec.2,1948	
22.230	Abandoned stock			45.5	Rslr/Dckm	Dec.1,1948	
24.224	Stock	3565	33.88	24.2		Oct.14,1977	
17.29. 8.231	Stock	3617	92.7	90.13		Oct.14,1977	
22.110	Stock	3550		79.7	Dckm ?	Nov.29,1948	
29.400	Stock			210	Dckm ?	Dec.3,1948	
17.31.34.000	Stock			271+	Dckm	Dec.6,1948	
18.27. 8.240	Unused	3505		181.40		Jan.9,1964	
8.244	Industrial	3513	381	325 ?		Apr.,1951	Oil test
10.200	Unused	3470		46.92		Jan.9,1964	
10.214	Industrial	3493	130	50		Jul.,1958	Oil test
28.13	Domestic/stock	3377	120	100		May,1960	
28.140	Unused	3415		91.37		Jan.9,1964	
33.42	Stock	3447	90	49.3		Sep.,1969	
18.28. 8.330	Stock			81.6	Ckbf/Rslr	Dec.3,1948	
30.110	Stock/domestic	3560		137.1	Ckbf ?	Dec.2,1948	
18.29.24.142	Windmill	3436		156.44		Oct.18,1977	S.C.2600; 21°C
24.23311	Windmill	3436		160.20	Trsc	Apr.8,1971	
24.300	Stock	3430		158.3	Dckm	Apr.28,1950	
34.324	Stock	3440	250	230		Mar.,1960	Yield: 63gpm
18.30.21.4200	Open cased hole	3495		266.48	Trcl	Dec.9,1965	
22.2220	Open cased hole	3430		239.26	Trcl	Apr.8,1971	
26.4140	Stock	3430	223.0	201.67	Trcl	Dec.14,1977	S.C. 1100
31.323	Observation	3370	161.0	157.80		Nov.18,1977	
32.32422	Windmill	3380		161.28	Trcl	Apr.8,1971	
32.413	Abandoned windmill	3370	266	158.77		Oct.18,1977	
18.31. 1.44432	Windmill	3797		460.42	Trcl	Apr.7,1971	
12.223	Stock	3795	480+	453.39		Oct.18,1977	
12.23144	Stock	3775	600	435.34	Trcl	Apr.7,1971	

Records of wells from Eddy County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
18.31.14.22133	Open cased hole	3731	400	377.30	Trcl	Apr.6,1971	
35.31324	Domestic	3631	300	261.08	Trcl	Apr.5,1971	
19.27.13.310	Dug well	3450	75	60.7	Ckbf	Sep.3,1948	Very small yield
14.242	Stock/Domestic	3450	95 ?	82.4	Ckbf	Jan.20,1950	North well of 3
16.13	Stock	3342	926	18		Jan.,1969	
19.28. 2.122	Stock	3460	160	128.3	Rslr ?	Dec.13,1948	Yield: 1gpm(est.)
2.23311	Domestic/Stock	3439		153.84	Rslr	Apr.2,1968	
5.21114	Windmill	3547	160.0	150.62	Rslr	Jan.28,1971	
5.411		3530	312	145		Nov.,1969	
9.31	Stock	3545	365	265		May,13,1966	Yield: 60gpm;after 24 hrs. pumping
13.210	Stock	3370		154.5	Rslr	Dec.3,1948	Yield: 3gpm
13.21441	Stock	3369	160	153.02	Rslr	Feb.1,1971	Yield:½(est.)
18.120	Stock	3502		82.8	Ckbf ?	Sep.3,1948	
18.11	Stock	3490	93	74		Mar.,1972	
18.12113	Stock	3505	100	88.31	Rslr	Jan.28,1971	
19.11	Stock	3495	100	91		Mar.,1972	
24.32233	Windmill	3351		130.10	Rslr	Feb.1,1971	
33.210	Stock	3345	170	123.41	Rslr ?	Dec.21,1948	
33.21422	Windmill	3545	125	121.07	Rslr	Jan.28,1971	
36.43233	Windmill	3292	87	71.75	Rslr	Feb1,1971	
19.29.10.43211	Stock	3370	153.0	145.84	Rslr	Feb.1,1971	
13.410	Stock	3310	250	123.2	Rslr/Dckm	Dec.21,1948	
13.41224	Windmill	3310		113.03	Rslr	Dec.9,1965	
13.412243	Open cased hole	3311		110.64	Rslr	Feb. 1, 1971	
20.220	Stock	3305		62.9	Rslr ?	Dec. 13,1948	Yield: 2gpm(est.)
20.24111	Windmill	3305		66.87	Rslr	Feb.1,1971	
23.23144	Windmill	3268	85.0	68.91	Rslr	Feb.1,1971	
25.232	Stock	3355	125.7	64.03		Oct.18,1977	Yield: 1gpm(est.) S.C.2950;21°C
19.30. 9.441	Industrial	3358	300		Rslr		Yield:500gpm; 21°C.
17.441	Stock	3329		142.70	Trsc	Feb. 1,1971	

Records of wells from Eddy County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
19.30.25.1122	None			22.98		Dec.16,1977	Abandoned windmill
25.12133	Stock	3239		19.53	Trsc	Feb.1,1971	Windmill
25.123	Observation	3245	42.0	22.73		Nov.18,1977	Abandoned windmill
19.31.27.21144	Open cased hole	3573		142.71	Trsc	Feb.1,1971	
27.23344	Oil test	3573		143		Feb.1,1971	Abandoned
28.330	Domestic	3480		180	Dckm	Nov.29,1948	
28.333		3442		110.07		Dec.14,1977	
28.3332	Domestic/stock	3483	200.0	186.87		Dec.15,1977	S.C.2200
28.33433	Stock	3442	180	108.21	Trsc	Feb.1,1971	Abandoned
31.132		3397	4,103	632.55	Cplm	May, 1973	
33.110	Abandoned	3450	160	100.7	Dckm	Nov.29,1948	North well of 3
33.142	Domestic/stock	3455	250	140		Sep.30,1959	
20.26.36.411	Stock	3240		120.0	Clbd	Oct.6,1948	Yield: 1½gpm
20.27. 1.110	Stock	3367	200+	186.0	Clbd	Sep.7,1948	Yield: 1gpm
2.42	Stock	3365	145	145+			Dry hole
14.42	Stock	3315	81	66		May, 1972	
21.	Domestic	3238	171	150		Feb.,1963	
29.440	Stock	3190	125	75.5	Clbd	Oct.6,1948	Yield: 2½gpm
20.28.14.123		3246	171	140		Oct.24,1973	Yield: 40gpm
28.200	Stock	3225		30.5	Rslr ?	Jan.20,1950	
36.140	Stock	3210		19.1	Rslr ?	Dec.27,1948	
20.29. 3.433	Stock	3300		91.9	Dckm/Rslr	Dec.13,1948	
3.434	Stock, windmill	3300	95.8	88.34		Dec.15,1977	S.C.2300
16.434	Abandoned	3259	103.1	52.28		Dec.15,1977	
20.311	Stock	3246	62.8	43.76		Dec.15,1977	S.C.2700
35.24		3330	339	157		Aug.20,1967	

Records of wells from Eddy County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
20.30. 3.223	Stock	3175		6.0	Qtal	Dec. 23, 1948	
3.424	Stock	3185		8.5	Qtal	Dec.23,1948	
5.310	Stock	3184		3.5	Qtal	Dec.23,1948	
7.112	Stock	3227	42.8	27.24		Dec. 15,1977	S.C.2600
16.420	Stock	3220		29.9	Dckm ?	May 1,1950	
17.433	Aband.	3215	66.0	26.35		Dec.15,1977	
20.120	Domestic	3210	90	29.3	Dckm ?	Dec.22,1948	Yield: 5gpm(est.)
20.130	Domestic	3210	60	45.3	Dckm ?	Dec.22,1948	
20.142	Aband.	3205	63.3	10.48		Dec.15,1977	
21.434	Industrial	3335	335	150		Jan.16,1974	Yield: 15gpm(est.) Oil test
31.214	None	3298	180.1	100.95		Oct.16,1977	S.C.8000;20°C
32.341		3365		327.32	Cplm	Sep.,1974	
33.32	Industrial	3330	235	195		Mar.31,1967	Oil test
33.440	Stock.	3380	240+	203.8	Dckm ?	Dec.27,1948	
20.31.13.42	Stock,Aband.	3427	32.5	1.1		Oct.5,1977	S.C.8000;70°F
13.440	Stock	3450		203.8	Dckm ?	Dec.22,1948	
15.130	Stock	3450	70 ?	63.1	Dckm ?	Dec.22,1948	
16.24	Stock	3458	110.0	61.0	Dckm ?	Oct.5,1977	Aband.
21.26.23.133	Irrigation	3144.35	418	41.04	Clbd	Jan.21,1970	
24.424	Irrigation	3154.94	320	50.26	Tnsl	Jan.10,1975	
25.344	Domestic,Irrigation	3124.65		17.60	Tnsl	Jan.16,1974	
36.212.	Irrigation	3123.26	200	23.56	Vlfl	Jan.10,1975	
21.27. 1.420	Stock	3180	30	12.7	Rslr/Qtal	Dec.27,1948	Yield: 1gpm(est.)
5.411		3280	2565	199.31	Cplm	Sep.,1974	
6.140	Stock	3190		34.1	Clbd ?	Sep.3,1948	

Records of wells from Eddy County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
21.27. 9.330	Stock	3220		81.4	Qtal	Jan.25,1950	
9.333	Domestic	3226	92	80		Apr.,1966	
19.		3116	95	33		Feb.,1959	
19.334	Irrigation	3137.01	320	30.25	Tnsl	Feb.18,1975	Yield: 1200gpm
20.220	Stock	3210	126		Rslr ?		
23.330	Stock	3230.2	2565	160.86	Cplm	Mar.,1974	
25.233	Domestic/Stock	3141	270	80		May 29,1975	Yield: 10gpm
28.331	Domestic/Stock	3150	350	40			
29.311	Unused irrigation	3116.28	236	16.50	Clbd	Jan.3,1962	
29.321	Domestic/Stock	3115	269	7.5	Clbd ?	Oct. 15, 1947	
29.322	Domestic	3150	90	31		Mar.,1956	
29.331	Domestic/Irrigation	3110	268	1.1	Clbd	Feb.,6,1947	
29.343	Stock/Irrigation	3109		13.7	Clbd ?	Oct.13,1947	
29.423	Stock	3150	150	41.3	Rslr ?	Nov.15,1949	
29.434	Irrigation	3120	324	24.76	Clbd	Jan.13,1964	
30.341	Domestic/Stock	3117		16.0	Clbd ?	Oct. 10,1947	
30.431	Irrigation	3115	186	7.0	Clbd		Yield: 1000gpm
30.440		3113	76	14.7	Qtal	Oct.20,1947	
30.442	Domestic	3115.48	256	12.78	Cptn	Jan.10,1975	
30.443	Irrigation	3115		15.5	Qtal ?	Oct. 10, 1947	
31.111	Irrigation	3115		8.4	Clbd	Oct.20,1947	
31.112	Irrigation	3114.85		15.30	Vlfl	Jan.3,1962	
31.211	Irrigation/Domestic	3116.07	220	13.91	Tnsl	Jan.14,1974	
31.212	Domestic/Irrigation	3120	250	10.4	Clbd	Oct.9,1947	
31.212	Potash Refining	3120	315	7.6	Clbd	Jan.17,1950	Yield: 1000gpm

Records of wells from Eddy County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
21.27.31.214	Irrigation	3107.32		18.64	Vlfl	Jan.10,1975	
31.333				15.59	Vlfl	Jan.10,1975	
32.111	Irrigation	3113.12	70	13.93	Vlfl	Jan.10,1975	
32.112	Irrigation/Domestic	3111.70	305	8.42	Cptn	Jan.10,1975	
32.112	Irrigation	3112.70	105	16.80	Vlfl	Aug. 9,1974	
21.28. 2.24		3367	308	210		Nov., 1966	
4.413	Stock	3207	39.5	23.24		Dec.16,1977	Yield: 15gpm(est) S.C. 2470
4.442	Stock	3235	185	80.20		Dec.16,1977	
12.444	Industrial	3358	275	205		Jun.6,1973	Oil test
18.130	Stock	3150		18.9	Qtal ?	Jan.21,1950	
30.141	Test well	3181		89.63	Clbd	Jan. 9,1975	With recorder
35.333	Stock	3160	146.3	136.97	Rslr/Ckbf	Oct.25,1977	S.C.2600;20°C
21.29. 2.142	Industrial	3405	300±		Rslr		Yield: 250 gpm; 20.5°C
3.120	Stock	3380	302	210+	Dckm	Dec.23,1948	
3.141	Industrial	3395.5	360	225		Apr., 1967	Oil test
4.121	Stock	3380	240±5	182.27		Dec.15,1977	S.C. 4900
11.421	Stock	3311	244.0	213.29	Rslr	Feb.22,1978	S.C.>5000;21.5°C
12.211	Unused industrial	3485	>300.0	279.88	Rslr	Feb.23,1978	
18.123	Stock		100-120			Dec.16,1977	S.C. 4320; Yield: 10gpm
18.130	Stock	3290	160	135.1	Rslr ?	Dec.30,1948	
25.444111	Domestic/Stock	3314	220	60		Aug.27,1974	
21.30.18.330	Observation	3212	139.3	135.07		Nov.9,1977	Abandoned
18.331	Windmill	3212	184.0	134.95		Oct.25,1977	Abandoned
18.333	Unused	3220	176	134.99	Rslr	Mar. 9,1976	
20.243		3170	888	60		Apr., 1963	
22.423	Unused	3180	220 ?	121.32	Rslr	Mar.17,1976	
28.0	Abandoned	3131	269.0	117.40		Dec.19,1977	

Records of wells from Eddy County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
21.31. 2.221	Abandoned	3569	31.87	30.15		Oct.19,1977	
7.331		3350	367.0	192.1	Rslr	Sep.14,1972	S.C.3500
18.411	Windmill	3310		158+	Rslr	Mar.17,1976	S.C.3200
22.27. 1.1222	Abandoned stock			0.5		Dec.15,1977	Caved well;large salt cedars
4.2111	Stock	3145	55	46.1	Rslr/Qtal	Jan.24,1950	Yield: 1gpm
5.141	Irrigation	3165	400	85.5	Rslr	Jan.24,1950	
6.212				9.36	Vlfl	Feb.12,1975	
8.313	Irrigation	3100	90	23.46	Vlfl	Jan.5,1962	
8.314	Irrigation	3095	110	18.42	Vlfl	Jan.10,1975	
9.333	Irrigation	3100		38.51	Vlfl	Jan.10,1975	
10.111	Stock	3100	227	48.11	Vlfl	Jan.5,1966	
10.333	Irrigation	3080	169	17.39	Vlfl	Jan.10,1975	
12.333	Domestic	3068	64	36		Aug.,1962	
22.28. 2.1111	Stock	3154		132.78	Rslr	Dec.4,1970	Windmill
4.130	Stock	3142		130.6	Rslr ?	Dec.17,1948	
10.33	Stock	3096	175	28 ?		May, 1957	
15.323	Stock	3096	100.8	74.98		Dec.16,1977	S.C.3800
16.113	Stock	3083	151.4	51.92		Dec.16,1977	S.C.2800
30.443	Unused irrigation	3042	136	14.35	Vlfl	Jan.9,1956	Destroyed in 1957
30.44	Domestic/stock	3043	200	17		1965	
22.29. 2.341		3250		Dry		Sep.,1964	
10.213		3280	730				
11.000		3230	400	278	Rslr	May 21,1949	
12.224	None	3140		119.1	Rslr	May 18,1949	
33.214	Stock	3018	70.3	53.75	Rslr	Oct.19,1977	Yield: 2gpm(est.) S.C.3700; 20°C

Records of wells from Eddy County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
22.29.33.240	Stock	3020	65	56.2	Qtal ?	Dec.17,1948	
22.30. 2.232	Industrial	3210	344.0	183.12		Mar.16,1976	
2.431	Industrial	3180	217.0	135.85		Mar.16,1976	
4.213		3110	950	dry		1964	
5.431	Industrial	3120		87.5	Rslr	May 18,1949	Yield: 260gpm
5.443	Industrial	3100		68.0	Rslr	May 18,1949	
6.344	Industrial	3145		110.3	Rslr	May 20,1949	Yield: 700gpm
6.424	None	3150		112.4	Rslr	May 18,1949	
6.444	None	3155		117.3	Rslr	May 18,1949	Abandoned
7.244	None	3120	250	85.7	Rslr	May 18,1949	
8.241	None	3155		115.1	Rslr	May 18,1949	
10.310	Domestic/Stock	3130	77	56.0	Rslr/Qtal	Dec.23,1948	
30.240	Stock	3000	75	134.0	Rslr/Qtal	Dec.17,1948	
32.114	Observation	3024	92.0	22.43		Nov.9,1977	Abandoned
22.31.15.130	Domestic	3460		129.0		Mar.16,1976	Windmill
15.130	Unused	3460	167.0	133.32		Mar.16,1976	
15.131	Unused	3460	170.0	126.90		Oct.19,1977	
23.28. 8.131	Irrigation	3032		33.93	Vlfl	Jan.10,1975	
8.421	Irrigation	3022	89	39.66	Vlfl	Jan.15,1965	
23.29.30.333	Irrigation	2970		38		Jul.25,1977	
23.30. 2.440	Stock	3250	300	250	Dckm/Rslr	Dec.22,1948	
4.144		3065	1053	dry			
6.110	Stock	3000	200	110	Rslr	Dec.22,1948	
6.420	Stock	2980			Qtal		
11.222	Stock	3248	284.0	262.76		Dec.19,1977	S.C. 5,800

Records of wells from Eddy County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
23.30.19.132	Stock	3036	59.6	54.90		Oct.20,1977	
21.122	Stock	3165			Qtal		Yield: 3gpm
23.31. 5.324		3325	231.0	126.40		Mar.9,1976	
7.220	Stock	3310	180	140	Dckm		Yield: 10(est.)
29.113	Stock	3333	144.0	138.95		Oct.19,1977	
24.29.16.1		2910	180	27		Aug.,1953	
17.44		2920	260	3.5		Oct.7,1953	
26.444	Abandoned oil test	3130	62	42			
24.30.19.421	Stock	3169	279.8	229.94		Dec.19,1977	S.C.>10,000
23.314	Stock, windmill	3437	450.3	448.3+		Oct.19,1977	S.C.2800;29°C
24.30.36.333	Stock	3418	464.2	455 (est.)		Oct.19,1977	S.C.850;23.5°C
24.31.17.111		4521	153.7	78.89		Dec.19,1977	S.C.620
33.232	Abandoned windmill	3460	95.2	dry		Oct.26,1977	
25.29.16.441	Stock	3041	190.6	164.80		Oct.26,1977	
32.211	Stock	2985	698.5	115.3	Rslr	Mar.11,1949	Yield: 2gpm
25.30. 2.000	Stock			295+	Dckm	Mar.11,1949	
8.224	Stock	3223	384.8	324.4	Rslr ?	Oct.26,1977	S.C.3500;23°C
9.100	Stock			295+	Dckm	Mar.10,1949	
21.330	Stock			268	Dckm	Mar.10,1949	Yield:3gpm
25.31. 2.23413	Industrial	3453	1016	400		Aug.18,1966	N.E. well of 2 Oil test
21.000	Stock		420	290	Dckm	Dec.15,1948	
21.412	Stock	3364	429.7	398.27		Oct.26,1977	S.C.1590;25°C
26.29.23.113	Stock	2917	74.0	67.13		Feb.3,1978	
26.30. 5.33441	Industrial	3091	770	171		Apr.3,1972	
8.110	Stock	3080	200	172	Dckm	Dec.15,1948	Yield: 3gpm(est.)

Records of wells from Eddy County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
26.31.1.000	Stock	3265	340	287.7	Dckm	Mar.10,1949	East well of 2
8.310	Domestic/Stock	3235	338	250	Dckm		
8.411	Stock	3241	297.2	275.6		Oct.26,1977	S.C. 615;20°C

CHAVES COUNTY

Records of wells from Chaves County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
3.27.29.311	Stock, windmill	3895	157.7	115.13		Feb.9,1978	S.C.900,pumping
3.28. 3.343	Abandoned	4142	51.1	32.28		Feb.9,1978	
3.29. 7.214	Abandoned	4212	32.0	30.7		Feb.9,1978	
4.26.13.434	Stock	3856	162.7	105.48		Feb.9,1978	
4.27.19.242	Stock	3890	175.0	136.91		Feb.9,1978	S.C.1800
4.28.10.120	Stock	4215	97.3	84.74		Feb.9,1978	S.C.3900
4.29.13.431	Stock	4590	20.5	18.7		Feb.9,1978	S.C.1500
5.26.13.113	Abandoned windmill	3933	132.65	129.23		Feb.9,1978	
5.27. 3.141	Abandoned	3944	17.8	14.80		Feb.9,1978	N.W. well of 3
5.28.17.133	Domestic/stock	3995	74.6	71.55		Feb.9,1978	Windmill
5.29. 2.143	Unused windmill	4550	318.2	293.09		Feb.9,1978	
6.26.23.111	Abandoned	3743	90.0	37.9		Jan.23,1978	
6.27.11.313	Stock	4058	236.15	195.62		Feb.7,1978	
6.28.33.444	Abandoned	3994	134.4	79.22		Feb.7,1978	
6.29.33.443	Abandoned	4110	74.85	57.83		Feb.7,1978	
6.30.12.223	Stock	4345	223.0	150.1		Feb.7,1978	Windmill;S.C.1050
21.310	Stock	4195	67.0	64.04		Feb.7,1978	S.C. 2000
6.31.28.442	Abandoned	4490	40.5	5.42		Feb.7,1978	
7.26. 4.331	Irrigation	3597		14.93	Rbsa	Jan.3,1966	
9.413	Stock	3640	38.72	32.77		Jan.23,1978	S.C.2500,pumping
7.26.19.242	Irrigation	3576		29.05	Salm	Jan.2,1966	
19.412	Irrigation	3596		47.08	Gsam	Jan.2,1966	
19.442	Irrigation	3590		24.74	Rbsa	Jan.2,1966	
20.244	Irrigation	3589	72	25.59	Rbsa	Jan.3,1966	
30.431	Irrigation	3567		12.18	Rbsa	Jan.2,1966	

Records of wells from Chaves County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
7.27.29.333	Stock	4038	244.15	227.05		Jan.23,1978	S.C.9600,pumping
7.28.27.331	None	3989	49.0	28.07		Jan.26,1978	S.C.1700,pumping East well of 3
7.29.10.2442	Stock	4180	87.7	85.74		Feb.7,1978	S.C.2900
7.30.33.422	Stock	4120	61.3± 5'	43.87		Jan.26,1978	South well of 2
7.31.14.221	Stock	4410	137.2	92.63		Feb.7,1978	S.C.720
8.26.19.444	Abandoned windmill	3693	51.3	16.53		Jan.23,1978	
8.27.30.421	Windmill	3951	241.3	205.6		Jan.23,1978	S.C.9200,pumping
8.28.23.311	Oil test	4050	125	35		Jan.24,1978	
8.30.20.122	None	4095	43.8	28.83		Jan.24,1978	S.C.4320.pumping
8.31.20.323	Stock	4215	114.5	81.53		Jan.26,1978	
8.32.29.344	Stock	4395	85.5	61.58		Jan.26,1978	S.C.1700,pumping
8.33.29.420	Stock	4400	224.5	212.44		Jan.26,1978	Unused
9.26.22.231	Stock	3775	63.9	39.65		Jan.23,1978	S.C.5600
9.27.19.443	Stock	3814	64.6	59.57		Jan.23,1978	S.C.6400
9.30.28.434	Stock	4045	50.4	35.61		Jan.24,1978	S.C.1500,pumping
9.31.36.34334	Stock		149	131.70	Ogll	Apr.29,1971	
10.26. 7.231	Stock/observation	3754	54.6	28.9		Nov.11,1977	
10.27. 1.331	Stock	3852	200	182		Nov.,1977	
25.144	Abandoned/observation	3733	135.0	Dry		Nov.11,1977	
10.28.28.111	Stock	3739	120	100		Nov.,1977	
29.230	Stock	3733	92	70		Nov.,1977	
32.113	Stock	3745	145	115		Nov.,1977	
10.29.10.222	Domestic	3947	430	425		Dec.2,1977	Yield: ½gpm
10.31.25.32222	Stock	4396	114	81.24	Ogll	Apr.2,1971	
26.341434	Stock	4382		172.01	Ogll	Apr.2,1971	

Records of wells from Chaves County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
10.31.35.121	Stock	4387	55+	44.87		Dec.2,1977	
35.121431	Stock	4385	119	45.76	Ogll	Nov.6,1969	
35.112242	Stock	4386	237	162.70	Ogll	Jul.28,1930	Destroyed
36.21325	Stock	4375.7	64	61.56	Ogll	Apr.2,1971	
11.26.25.112	Abandoned	3653	38.0.	15.87		Dec.7,1977	
25.333	Stock	3670	129			Nov.,1977	
26.222	Stock	3618	27+	27+		Dec.7,1977	
11.27.23.232	Stock	3757	110	85		Nov.,1977	
34.131	Domestic/stock	3704	50	22		Nov.,1977	
11.28. 1.410	Stock	3791	205	185		Nov.,1977	
11.29.13.244	Abandoned	3955	339.8	310.39		Jan.22,1978	
11.30.19.131		3863	127.3	107.33		Jan.22,1978	
11.31. 1.33333	Shot hole	4498	91	42.90	Ogll	Mar.25,1971	
10.44141	Stock	4469.10		45.79	Ogll	Feb.8,1966	
11.11111	Shot hole	4490.20		40.11	Ogll	Apr.14,1961	
12.41414	Domestic	4464		177.80	Trcl	Mar.25,1971	
16.32433	Stock	4474		141.32	Ogll	Mar.26,1971	
16.34122	Stock	4473.5		141.47		Mar.26,1971	
16.43224	Abandoned stock	4458.70		82.65	Ogll	Mar.26,1971	
21.144221	Stock			111.67	Ogll	Apr.2,1971	
21.44442	Stock	4471.80		117.74	Ogll	Sep.1,1971	
21.44443	Abandoned	4471		113.19	Ogll	Apr.14,1961	
22.12232	Oil test	4470.30		118.72	Ogll	Apr.14,1961	
22.13311	Uncased shot hole	4474.90		111.02	Ogll	Apr.14,1961	
23.33333	Unused,unequipped	4437		129.65	Ogll	Jan.7,1975	

Records of wells from Chaves County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
11.31.24.31131		4447		55.79	Ogll	Mar.25,1971	
24.44444	Stock	4437.5		56.20	Ogll	Mar.24,1971	
26.334332	Abandoned	4453.25		76.60	Ogll	Mar.23,1971	
26.343	Abandoned	4452	95.0	77.37		Dec.2,1977	
27.32221	Stock	4463		94.91	Ogll	Apr.2,1971	
28.12133	Uncased shot hole	4477.20		131.19	Ogll	Apr.14,1961	
34.21131	Cased shot hole	4460.10		90.15	Ogll	Mar.24,1971	
35.12224	Cased shot hole	4453		76.01	Ogll	Mar.24,1971	
12.26. 1.344	Stock	3740	310	225		Nov.,1977	
4.323	Stock	3438	74	15		Nov.,1977	
17.143	Stock	3450		15.42	Rbsa	Jan.14,1975	
19.244	Unused irrigation	3470		29.70	Rbsa	Jan.11,1966	
19.342	Irrigation	3492		14.57+	Salm	Jan.9,1974	
20.144	Domestic/stock	3448		23.17	Rbsa	Jan.11,1965	Unused
30.213	Irrigation	3492		36	Rbsa	Jan.15,1975	
32.113	Irrigation	3471	118	30.03	Rbsa	Jan.15,1975	
32.133	Irrigation	3470		30.59	Rbsa	Jan.22,1971	
33.121	Irrigation	3417	800	61.91	Salm	Jan.15,1974	
12.27. 2.244	Stock	3736	120	86		Nov.1977	
5.333	Stock	3684	95	42		Nov.1977	
9.444	Stock		195	87		Nov.1977	
12.28.13.441	Stock	3680	180	130		Nov.,1977	
15.144	Stock	3605	105	55		Nov.1977	
17.320	Stock	3673	165	110		Nov.,1977	
27.313	Stock	3605	71.1	38.85		Jan.22,1978	S.C.7600

Records of wells from Chaves County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
12.29.34.113	Stock	3748	98.9	91.34		Jan.22,1978	S.C. 1100,pumping
12.30.17.424	Stock	3882	88.3	65.8		Jan.22,1978	S.C. 3800,pumping
12.31. 1.41123	Stock	4433.85		74.59	Ogll	Mar.31,1971	
3.22443	Domestic/stock	4456.10		90.68	Ogll	Mar.31,1971	
16.42121	Domestic	4314.10		25.49	Ogll	Mar.16,1961	
22.323	Stock	4435	134.3	131.34	Ogll	Dec.2,1977	
26.33321	Abandoned	4423.48		132.78	Ogll	Mar.30,1971	
26.33331	Unused water table well	4423.50	145	131.74	Ogll	Jan.7,1975	
26.333	Unused		145	131.39	Ogll	Feb.14,1964	
13.27.14.442	Stock	3572	150.4	46.67		Jan.22,1978	S.C.5000; 35°C
30.234	Stock	3463	111.5	70.59		Jan.22,1978	S.C.4000
13.28. 3.133	Abandoned	3588	62.15	49.38		Jan.22,1978	
13.29.22.121	Stock	3749	211	208.5		Nov.,1977	
13.30. 8.131	Stock	3843	420	400		Nov.,1977	Windmill
31.41	Stock	3741	158	148		Nov.,1977	Windmill
13.31. 2.24442	Secondary recovery	4394		139.07	Ogll	Feb.14,1966	
2.42224		4401.20		145.42	Ogll	Mar.16,1971	
12.22232	Secondary recovery	4382.12		139.70	Ogll	Mar.16,1971	
13.12122	Uncased shot hole	4385.72		116.38	Ogll	Apr.3,1961	
25.22222	Stock	4367.60		99.75	Ogll	Mar.16,1971	
34.120	Open casing	4292	77.8	69.63		Dec.2,1977	
34.12324	Stock	4281.40		73.50	Ogll	Mar.16,1971	
34.2100	Stock	4296.40		62.51	Ogll	Feb.15,1966	
35.143	Unused,abandoned			174.35	Ogll	Jan.13,1972	
14.27.16.132	Stock	3427	56.0	47.22		Nov.14,1977	

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
24.37. 1.41311	Open cased hole	3164		17.13	Ogll	Dec.4,1970	
3.312334	Open cased hole	3263	98	89.83	Ogll	Dec.3,1970	
5.11333	Open cased hole	3306	182	106.64	Ogll	Feb.29,1968	
5.444234	Used windmill	3268		93.82	Ogll	Dec.3,1970	
7.43124	Used windmill	3304	185	121.97	Ogll	Feb.28,1968	
7.43231	Abandoned windmill	3304	132	119.49	Ogll	Dec.3,1970	
8.11334	Used windmill						
8.14232	Domestic	3284	185	111.13	Ogll	Nov.2,1965	
8.14313	Abandoned	3294	115	86.67	Ogll	Oct.28,1965	
8.144122	Abandoned	3288	160	113.44	Ogll	Feb.28,1968	
8.24111	Abandoned cased hole	3288		95.70	Ogll	Dec.3,1970	
9.44411	Open cased hole	3275	147	109.32	Ogll	Dec.3,1970	
10.14322	Used windmill	3250	140	83.64	Ogll	Dec.3,1970	
11.344413	Used windmill	3204	80	64.36	Ogll	Dec.7,1970	
14.211	None	3205	72.0	64.5	Ogll ?	Mar.3,1953	
16.41424	Unused cased hole	3244	150	86.25	Ogll	Dec.7,1970	
16.423	Domestic	3240	150		Ogll		
17.422	Open hole	3247	92	86.49	Ogll	Mar.4,1953	
18.433332	Used windmill	3302	150	125.92	Ogll	Dec.2,1970	
19.234334	Used windmill	3287	160	117.43	Ogll	Mar.5,1953	
20.333441	Used windmill	3286		121.60	Ogll	Dec.2,1970	
21.222443	Abandoned	3237	91	84.51	Ogll	Feb.27,1968	
21.24222	Used secondary recovery	3234	152	73.98	Ogll	Oct.19,1965	
21.41343	Used secondary recovery	3220	775	267.44	Trsc	Dec.10,1970	
21.444221	Abandoned	3202	74	69.64	Ogll	Mar.2,1953	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
24.37.22.14423	Used windmill	3262		111.90	Ogll	Dec.7,1970	
22.33124	Open cased hole	3243	1,057	263.43	Trsc	Feb.26,1968	
22.33124	Open cased hole	3226	747	225.95	Trsc	Oct.19,1965	
24.13333	Used windmill	3168		93.61	Ogll	Feb.27,1968	
25.23412	Open hole	3144		94.35	Ogll	Dec.10,1970	
25.24411	Uncased hole	3138	120	79.27	Ogll	May 10,1966	
25.32211	Used windmill	3142	100	81.35	Ogll	Oct.20,1965	
25.42222	Industrial	3134		93.84	Ogll	Feb.26,1968	
25.43411	Uncased hole	3135	135	86.16	Ogll	May 6,1966	
27.11143	Open hole		76	56.15	Ogll	Dec.10,1970	
28.24213	Used windmill	3207		64.68	Ogll	Dec.10,1970	
28.433331	Used secondary recovery	3245	798	274.30	Trsc	Feb.26,1968	
31.24433	Used windmill	3231	100	74.96	Ogll	Dec.10,1970	
34.320	None	3160	75±	56.8	Ogll	Mar.2,1953	
34.41231	Open hole	3169	75	49.63	Ogll	Dec.11,1970	
34.432224	Abandoned stock	3165		54.64	Ogll	Dec.11,1970	
35.313334	Abandoned windmill	3186		76.44	Ogll	Dec.11,1970	
36.22211	Industrial	3128	98	93.84	Ogll	Oct.19,1965	
36.224331	Industrial	3125		103.80	Ogll	Oct.18,1965	
36.42140	Unused industrial	3117	215	100.00	Ogll	Dec.11,1970	
24.38.17.32332	Open cased hole	3211	122	75.70	Ogll	Dec.14,1970	
19.31312	Open hole	3123	84	46.74	Ogll	Feb.21,1968	
19.33344	Abandoned stock	3121	57	52.13	Ogll	Dec.4,1970	
21.333114	Open hole	3204	141	96.72	Ogll	Dec.11,1970	
30.31231	Open hole	3113	83	63.25	Ogll	Dec.4,1970	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
24.38.31.142134	Open hole	3101	84	66.95	Ogll	Dec.4,1970	
31.312343	Open hole	3119	121	96.73	Ogll	Oct.21,1971	
32.33314	Open cased hole	3129	835	361.40	Trsc	Dec.15,1970	
33.13322	Used secondary recovery	3188	775	428.74	Trsc	Dec.15,1970	
33.344123	Used secondary recovery	3160	765	415.35	Trsc	Dec.15,1970	
25.32.31.141	Open cased hole	3306	278.8	Dry		Nov.8,1977	Abandoned
25.33.20.443	Domestic/stock	3395		200-250	Trsc	Aug.18,1958	
31.242	Stock, windmill	3402	276.18	257.42	Trsc ?	Nov.8,1977	S.C.1490; 20°C
25.34. 1.132	Stock	3400	320	257.5	Trsc	Jul.26,1954	
25.34. 1.132	None	3385	300+	231	Trsc	Apr.15,1953	
1.14313	Open cased hole	3380		215.36	Ogll	Dec.8,1970	
25.35. 3.23331	Windmill	3219	122	107.99	Ogll	Dec.9,1970	
10.22324	Stock	3179	84	74.34	Ogll	Dec.9,1970	
13.33241	Open cased hole	3108	249	130	Trcl	Jan.14,1971	
13.33444	Open cased hole	3106	238	218.63	Trcl	Jan.14,1971	
21.122223	Open cased hole			166.38	Ogll	Dec.9,1970	
25.36. 5.34333	Open cased hole	3201	500	198.45	Trsc	Oct.26,1965	
6.32111	Windmill	3261	605	300.78	Trsc	Jan.14,1971	
10.313	Stock	3130	512	300	Trsc		
12.13214	Open cased hole	3208	80	58.56	Ogll	Dec.9,1970	
14.42141	Open cased hole	3097	500	293.30	Trsc	Oct.14,1965	
15.11112	Open cased hole	3120	508	248.91	Trsc	Jan.14,1971	
15.111134	Stock	3122	140	119.30	Ogll	Jan.14,1971	
23.234	Stock	3070	65.0	53.7	Qtal	Mar.31,1953	
24.11213	Open cased hole	3111	475	296.01	Trsc	Dec.9,1970	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
25.36.24.31224	Windmill	3082	500	277.24	Trsc	Dec.9,1970	
26.22223	Unused	3059	410	260.46	Trcl	Dec.9,1970	
33.33323	Windmill	2997		239.77	Trcl	Dec.10,1970	
25.37. 1.222234	Open cased hole	3110	140	95.19	Ogll	Dec.10,1970	
1.22242	Open cased hole	3108	140	98.54	Ogll	Dec.10,1970	
1.22424	Open cased hole	3106	140	111.53	Ogll	Dec.10,1970	
1.22444	Irrigation	3106		85	Ogll	Oct.20,1965	
1.24222	Open cased hole	3106	130	107.25	Ogll	Dec.10,1970	
1.24223	Community	3104	127	84.06	Ogll	Oct.20,1965	
1.31322	Industrial	3115		111.46	Ogll	Dec.11,1970	
2.31433	Windmill	3158	113	103.90	Qtal	Dec.14,1970	
2.34333	Open cased hole	3131		105.45	Ogll	Oct.21,1971	
2.3443	Open cased hole	3127	154	106.10	Ogll	Dec.14,1970	
2.34444	Public Supply	3126		104.99	Ogll	Dec.14,1970	
3.14223	Abandoned stock	3142	62	54.20	Qtal	Dec.15,1970	
3.24214	Windmill	3165	65	69.74	Qtal	Dec.15,1970	
9.33334	Domestic	3152		259.46	Trsc	Apr.13,1968	
10.244443	Open cased hole	3121	800	668.0	Trsc	Feb.19,1968	
10.24444	Irrigation	3121	187	96.60	Ogll	Dec.15,1970	
10.412334	Open cased hole	3108		82.82	Ogll	Dec.15,1970	
10.41413	Open cased hole	3106		79.71	Ogll	Dec.15,1970	
10.42222	Community	3121		89.04	Ogll	Dec.15,1970	
10.423234	Industrial	3113		82.75	Ogll	Dec.15,1970	
10.433341	Windmill	3107		75.20	Ogll	Dec.15,1970	
10.43344	Open hole	3102	106	68.85	Ogll	Nov.3,1965	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
25.37.10.43443	Domestic	3107	106	72.36	Ogll	Nov.2,1965	
11.13333	Industrial	3122		98.13	Ogll	Dec.14,1970	
11.13443	Industrial	3119		96.11	Ogll	Dec.14,1970	
11.144431	Open cased hole	3121		100.08	Ogll	Dec.14,1970	
11.21332	Open cased hole	3122		112.44	Ogll	Dec.14,1970	
13.312	Public supply	3080	152	73	Ogll	Jun.,1954	Yield:750gpm(est.
15.221	Industrial	3100		59.2	Ogll	Feb.26,1953	Yield:30gpm(est.)
15.223	Domestic	3090			Ogll		
15.411	None	3070	85.00	31.1	Qtal	Feb.26,1953	
17.114	Stock	3105		62.8	Qtal	Mar.5,1953	
18.223432	Windmill	3104	80	56.26	Qtal	Nov.2,1965	
18.22444	Windmill	3100		52.62	Qtal	Dec.16,1970	
18.412423	Open cased hole	3096	70	53.39	Qtal	Oct.29,1965	
18.421110	Open cased hole	3107	102	61.42	Qtal	Dec.16,1970	
18.423142	Public supply	3098	100	61.40	Qtal	Oct.29,1965	
18.433441	Domestic	3098	90	59.57	Qtal	Dec.16,1970	
18.441123	Windmill	3089	100	46.41	Qtal	Dec.16,1970	
18.444443	Windmill	3081	65	41.20	Qtal	Dec.16,1970	
19.211224	Domestic	3095	77	56.80	Qtal	Dec.16,1970	
19.212112	Domestic	3094	69	55.73	Qtal	Oct.21,1965	
19.22114	Uncased domestic	3091	81	54.05	Qtal	Oct.21,1965	
19.22232	Domestic	3076	140	37.55	Qtal	Oct.18,1967	
19.22332	Windmill	3088	90	57	Qtal	Oct.21,1965	
19.23231	Lawn well	3085		263.95	Trsc	Oct.18,1965	
19.23442	Abandoned stock	3077		44.75	Qtal	Dec.16,1970	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
25.37.19.24412	Open cased hole	3067		35.71	Qtal	Dec.16,1970	
19.42134	Windmill	3072	103	44.74	Qtal	Feb.27,1968	
19.44144	Domestic	3042	245	196.49	Trcl	Dec.16,1970	
20.23111	Unused	3072	360	40.41	Trsc	Dec.16,1970	
20.231114	Nursery well	3072	55	40.72	Qtal	Dec.16,1970	
20.23311	Community	3071	460	207.07	Trcl	Dec.16,1970	
20.24311	Community	3053	350	72.16	Trcl	Oct.15,1965	
20.310		3035	70	65	Qtal	Jan.18,1942	Yield:50gpm(est.)
20.32134	Domestic	3038	450	195.78	Trcl	Feb.27,1968	
20.41111	Windmill	3055	230	30.49	Trcl	Oct.27,1965	
21.22243	Domestic	3083	120	49.73	Qtal	Feb.19,1968	
21.23411	Stock	3068	495	215.60	Trsc	Feb.19,1968	
21.411	Stock	3050	46.0	38.2	Ogll	FEb.12,1953	Yield:1gpm(est.)
22.12214	Windmill	3078	84	44.54	Qtal	Dec.17,1970	
22.42142	Open cased hole	3051	42	24.13	Qtal	Dec.17,1970	
23.444424	Open hole	3071	78	65.29	Qtal	Dec.17,1970	
24.14333	Secondary recovery	3075	901	239.05	Rslr	Feb.15,1968	
24.211111	Open cased hole	3071	112	69.68	Qtal	Feb.16,1968	
24.42223	Open cased hole	3063	135	68.20	Qtal	Dec.17,1970	
25.233332	Open cased hole	3055	65	53.24	Ogll	Dec.17,1970	
25.411	None	3055	62.0	56.4	Ogll	Feb.12,1953	
26.143232	Windmill	3028	106	94.10	Qtal	Dec.17,1970	
29.124142	Irrigation	3024	457	215.80	Trsc	Dec.18,1970	
29.22243	Irrigation	3025		206.26	Trsc	Oct.19,1965	
29.331334	Abandoned	3002	156	108.61	Trcl	Dec.18,1970	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
25.37.33.114	None	3000	105	87.4	Qtal	Feb.16,1953	
33.12341	Open cased hole	3002		86.13	Qtal	Dec.17,1970	
34.33343	Windmill	2998	147	118.54	Qtal	Dec.17,1970	
36.24424	Open cased hole	3031	94	73.14	Ogll	Oct.21,1965	
36.24424	Open cased hole	3031	360	70.76	Trsc	Dec.17,1970	
36.41214	Windmill	3028	80	70.36	Qtal	Dec.17,1970	
25.38. 6.12243	Windmill	3093	82	76.47	Ogll	Dec.10,1970	
6.332321	Industrial	3089		93.82	Ogll	Dec.10,1970	
6.33314	Industrial	3100		110.68	Ogll	Dec.10,1970	
7.13331	Open cased hole	3094		102.62	Ogll	Dec.10,1970	
7.13414	Open cased hole	3096	138	103.66	Ogll	Feb.19,1968	
9.34323	Windmill	3135	100	86.80	Ogll	Oct.26,1965	
9.34413	Oil test	3136	100	90.46	Ogll	Dec.10,1970	
18.422123	Open cased hole	3061	120	51.75	Ogll	Dec.10,1970	
19.342	Industrial	3061	133	68	Ogll ?	1952	
21.121	Stock	3103	110	87.7	Ogll	Feb.12,1953	
29.131	None	3040		69.9	Qtal	Feb.15,1953	
29.21411	Windmill	3030	110	49.74	Ogll	Dec.3,1970	
31.13331	Open cased hole	3031		71.28	Qtal	Feb.20,1968	
32.34114	Windmill	3024	60	56.34	Ogll	Dec.3,1970	
26.32.21.322	Domestic/stock	3140	253	180	Trsc ?	Jul.23,1954	
31.212	Stock	3130	210.86	207.44		Nov.8,1977	S.C.1180; 22°C
26.33. 3.444	Stock	3306	164.5	111.02	Qtal	Nov.8,1977	
9.443	Stock	3280		106.6	Qtal ?	Jul.26,1954	
22.433	Stock	3270	200 ?	79.7	Qtal	Jul.26,1954	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
26.34. 6.213	Stock	3330		141.9	Trsc	Jul.23,1954	
6.214	Stock	3320	111.05	58.05		Nov.8,1977	S.C.1230; 19°C
26.35.13.222	Stock	2990		229.1	Qtal	Dec.12,1958	
13.22222	Industrial			228.63	Ogll	Dec.2,1970	
26.36. 4.		2985		878.70	Cplm	Jan.23,1976	
9.440	Stock	2940	184.0	177.8	Qtal	Dec.12,1958	
18.311	Public supply	2981	559	220.8	Qtal	Mar.17,1960	Yield:453gpm
19.233	Public supply	2950	700	198			Yield:408gpm
21.443	None	2900	137 ?	Dry		Dec.11,1958	
23.222	Stock	2925	157.55	154.24		Nov.9,1977	
26.37. 2.133	Stock	3000	119	103.4	Qtal ?	Feb.16,1953	
2.31111	Windmill	2995	119	102.12	Ogll	Dec.2,1970	
7.313441	Industrial	2954	475	214.56	Trsc	Oct.14,1965	
7.32342	Industrial	2957	455	225.59	Trsc	Oct.14,1965	
7.331234	Industrial	2951	476	197.64	Trsc	Oct.14,1965	
12.314	None	3010		102.3	Qtal	Feb.16,1953	
12.331	Cased shot hole	3000	103±	99.9	Qtal	Feb.17,1953	
12.441			175		Qtal		Yield:68gpm(est.)
14.122	Cased shot hole	2985	131.0	100.6	Qtal	Feb.17,1953	
26.38. 7.244	None	3000	73	57.1	Qtal	Feb.24,1953	
7.244121	Stock	3010	68	61.01		Dec.3,1970	Windmill
8.444	Stock	3000	66	64.5	Qtal	Feb.24,1953	
17.414	Stock	2975		39.4	Qtal	Feb.24,1953	
21.344	Cased shot hole	2955		29	Qtal	Feb.13,1953	
32.141	None	2950		142.4	Trsc ?	Feb.13,1953	

Records of wells from Chaves County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
14.27.30.312	Stock	3379	28.85	15.45		Nov.29,1977	Windmill
14.28.13.114	Stock	3608	105.0	94.69		Nov.29,1977	Windmill
24.331	Stock	3628	140	122		Nov.,1977	Windmill
14.29. 3.244	Stock	3702	160	130+		Nov.,1977	Windmill
14.30. 2.141	Stock	3889	300.0	289.30		Nov.30,1977	Windmill
13.324	Stock	3964	280	260		Nov.,1977	Windmill
14.31.14.134432	Windmill	4302	165	151.94	Ogll	Mar.30,1971	
24.13214	Secondary recovery	4383		259.83	Ogll	Mar.30,1966	
24.22211	Cased shot hole	4370		236.65	Ogll	Mar.24,1971	
24.44242	Cased shot hole	4363		204.01	Ogll	Mar.21,1961	
25.41421	Open cased hole	4369		241.90	Ogll	Mar.24,1971	
26.31431	Windmill	4391		259.29	Ogll	Mar.30,1971	
28.44334	Windmill	4312		171.24	Ogll	Mar.30,1971	
29.442	Stock	4190	176	170		Nov.,1977	Windmill
30.11313	Abandoned	4070		262.25	Ogll	Feb.10,1966	
30.113	Stock	4052	342	310		Nov.,1977	Yield: 1.5gpm(est)
33.13231	Windmill	4311		170.08	Ogll	Mar.30,1971	
15.27. 9.231	Abandoned	3392	33.5	Dry		Nov.29,1977	
18.111	Irrigation	3360	800	11.80	Sadr	Nov.18,1963	
22.122	Stock	3435	87.1	76.11		Nov.29,1977	
15.28. 1.144	Stock	3660	150	142		Nov.,1977	Windmill
7.23	Stock	3528	20	18		Nov.,1977	Windmill
9.23	Stock	3574		30		Nov.,1977	Windmill
21.232	Stock	3549	34.2	18.69		Nov.29,1977	Windmill
26.224	Stock	3559	36	24		Nov.,1977	Windmill

Records of wells from Chaves County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
15.28.31.443	Stock	3577	38	32		Nov.,1977	Windmill
15.29. 3.441	Stock	3846	62	62		Nov.,1977	Windmill
15.31. 4.41121	Stock	4369		268.57	Ogll	Feb.16,1966	
9.24122	Industrial	4407		276.36	Ogll	Mar.30,1971	
9.42121	Stock	4412		283.48	Ogll	Mar.30,1971	
11.322332	Stock	4380		252.44	Ogll	Mar.25,1966	
21.33211	Stock	4414	318	289.21	Ogll	Mar.30,1971	
22.432234	Secondary recovery	4391		271.55	Ogll	Apr.5,1966	
23.31133	Used		366	256.35	Ogll	Jan.7,1975	
25.444114	Stock	4318		207.15	Ogll	Mar.31,1966	
26.23212	Secondary recovery	4362		273.57	Ogll	Feb.16,1966	
26.33222	Secondary recovery	4379		279.15	Ogll	Mar.31,1966	
26.4410	Secondary recovery	4369		259.82	Ogll	Mar.31,1971	
28.32412	Stock	4383		257.86	Ogll	Mar.30,1971	
32.212	Open cased hole	4418	312	293.55	Ogll	Nov.30,1977	
32.21424	Open cased hole	4415		298.68	Ogll	Feb.15,1966	
35.24433	Stock	4366		261.58	Ogll	Mar.31,1971	

L E A C O U N T Y

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
9.32.22.23433	Stock windmill			186		Apr.29,1971	
9.33. 8.444	Stock		165.0	54		Apr.15,1971	
9.34.15.24333	Stock			197		Apr.13,1971	
9.36.12.444441	Abandoned stock		233.0	143		Apr.27,1971	
9.37.25.111	Unused stock	3972	186±	179		Apr.27,1971	
9.38.16.13441	Abandoned stock	3959	246±	237		Jul.23,1970	
10.32.15.122344	Stock	4335	92	74	Ogll	Jun.13,1957	
15.21411	Stock windmill			60		Apr.15,1971	
17.12233	Stock			52.70	Ogll	Apr. 1,1971	
18.43313	Stock			37.85	Ogll	Apr. 1,1971	
20.32433	Stock			64.13	Ogll	Apr. 1,1971	
20.34122	Domestic/stock		89	66.50	Ogll	Aug. 7,1930	
25.314413	Stock	4301	63	43.34	Ogll	Apr.15,1971	
29.113212	Open cased hole		94	63.77	Ogll	Apr. 1,1971	
31.244132	Stock			61.30	Ogll	Apr. 1,1971	
33.34211	Stock			54.84	Ogll	Apr. 1,1971	
10.33. 5.42311	Stock	4205		91.72	Ogll	Apr.29,1971	
12.33330	Stock	4204		43.37	Ogll	Apr. 2,1971	
13.33322	Stock			33.21	Ogll	Apr. 2,1971	
16.212141	Stock	4196	37.0	36	Ogll	Apr. 2,1971	
18.33414	Stock			24.40	Ogll	Apr.16,1971	
19.21422	Stock/domestic	4197	92	48.08	Ogll	May 4,1971	
19.21424	Stock/domestic	4197	51	32.50	Ogll	Jul.20,1930	
20.44322	Stock	4190		24.45	Ogll	May 4,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
10.33.22.12322	Stock			34.49	Ogll	Apr.2,1971	
23.411312	Stock	4191	44	31.79	Ogll	Apr.2,1971	
24.12322	Open cased hole			22.99	Ogll	Apr.2,1971	
28.34333	Stock		54	26.68	Ogll	May 4,1971	
10.34.20.43313	Open cased hole	4226		36.79	Ogll	Apr.6,1971	
27.142223	Stock	4188	59.0	52	Ogll	Apr.6,1971	
32.13144	Abandoned	4207	14.6	6.85	Ogll	May 6,1954	
10.35.12.31214	Irrigation	4072		107.15	Ogll	Apr.8,1971	
12.312312	Stock	4074	102	92.01	Ogll	Apr.7,1972	
12.323223	Stock	4067	240	102	Ogll	Apr.8,1971	
12.44411	Stock	4061		86.16	Ogll	Apr.8,1971	
15.322141	Stock	4101		106.18	Ogll	Apr.8,1971	
16.134132	Stock	4123		121.27	Ogll	Apr.8,1971	
19.43444	Abandoned	4122		38.81	Ogll	Apr.6,1971	
20.34111	Stock	4111	114	104.51	Ogll	Apr.6,1971	
26.34331	Stock	4038		55.74	Ogll	Apr.6,1971	
10.36.13.224442	Abandoned stock	3976		110.17	Ogll	Jul.17,1954	
13.22444	Stock	3977		109.17	Ogll	Apr.26,1971	
21.340	Abandoned stock		81	46.60	Ogll	Jul.17,1930	
30.242331	Stock	4034		86.61	Ogll	Apr.7,1971	
10.37. 1.1243	Stock	3950		141.02	Ogll	Apr.13,1971	
5.313414	Stock	3979		135.18	Ogll	Apr.8,1971	
8.422422	Stock	3973		134.15	Ogll	Jul.23,1970	
9.441442	Stock	3960		131.20	Ogll	Apr.8,1971	
11.42121	Stock	3939		131.32	Ogll	Apr.14,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
10.37.20.33333	Stock	3962		104.11	Ogll	Apr.13,1971	
22.123224	Stock	3943		121.20	Ogll	Apr.14,1971	
32.112331	Stock	3953		84.64	Ogll	Apr.12,1971	
33.24222	Stock	3934		107.60	Ogll	Jul.17,1954	
10.38. 4.343341	Stock	3908		142.85	Ogll	Apr.13,1971	
5.33431	Stock	3925		141.68	Ogll	Jul.22,1970	
18.444323	Stock	3914		132.09	Ogll	Apr.14,1971	
20.221142	Stock	3905		135.92	Ogll	Apr.14,1971	
28.111112	Stock	3916	163.0	142.81	Ogll	Nov.12,1971	
29.133331	Stock	3914		125.29	Ogll	Apr.12,1971	
29.242321	Stock	3912		134.87	Ogll	Apr.12,1971	
32.233223	Stock	3907		170.78	Ogll	Apr.12,1971	
11.32. 3.31414	Used windmill			68	Ogll	Feb.28,1966	
3.33322	Open cased hole	4384	105	63.40	Ogll	Mar.23,1971	
6.33333	Used windmill	4472		46.40	Ogll	Mar.25,1971	
6.33334	Used windmill	4472		38.58	Ogll	Mar.25,1971	
7.33333	Shot hole	4458		25.67	Ogll	Apr.14,1961	
8.22222	Used windmill	4411		44.75	Ogll	Mar.24,1971	
12.32223	Used windmill	4324		52.99	Ogll	Mar.24,1971	
13.23213	Used windmill	4323.2		56.54	Ogll	Mar.24,1971	
14.33333	Used windmill	4381		63.58	Ogll	Mar.29,1971	
15.11444	Used windmill	4389		63.35	Ogll	Mar.23,1971	
19.12344	Used windmill	4429		85.90	Ogll	Mar.24,1971	
21.1400	Used windmill	4411		31.72	Ogll	Sep.1,1971	
21.14000	Stock	4411		32.93	Ogll	Mar.24,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
11.32.28.2100	Used windmill	4410		47.88	Ogll	Feb. 8,1966	
28.21000	Stock/Domestic	4410	58	39.58	Ogll	Sep. 1,1971	
28.21133	Domestic		56	41 50	Ogll	Sep. 1,1971	
30.24443	Used windmill	4422		44.81	Ogll	Mar.24,1971	
32.41234	Stock		64	30.55	Ogll	Mar.23,1971	
33.33434	Shot hole	4401		30.49	Ogll	Feb.14,1966	
36.23113	Used windmill	4323		69.94	Ogll	Mar.23,1971	
11.33. 1.21222	Irrigation	4202		27.60	Ogll	Mar.18,1971	
6.13211	Used windmill	4322		48.34	Ogll	Mar.22,1971	
7.4300	Used windmill	4311		53.68	Ogll	Mar.22,1971	
9.23131	Used windmill	4294		63.23	Ogll	Mar.22,1971	
9.4444	Used windmill	4281		46.26	Ogll	Mar.22,1971	
12.23331	Open cased hole	4213		26.17	Ogll	Mar.18,1971	
12.31311	Irrigation	4232		57.38	Ogll	Mar.29,1971	
13.43334	Abandoned windmill	4224		27.13	Ogll	Mar.18,1971	
17.133	Stock			52.31	Ogll	Feb.22,1978	S.C. 750
21.11143	Irrigation	4281		65.47	Ogll	Mar.18,1971	
22.41414	Open hole	4250		35.38	Ogll	Mar.22,1971	
23.43331	Used windmill	4225	60	32.89	Ogll	Mar.18,1971	
25.31113	Irrigation	4231		38.08	Ogll	Mar.18,1971	
25.442	Unused			33.81	Ogll	Jan. 7,1975	
28.11422	Used windmill	4280		52.82	Ogll	Mar.18,1971	
30.13311	Irrigation	4308		67.49	Ogll	Mar.18,1971	
31.24432	Windmill	4290		66.17	Ogll	Mar.18,1971	
33.11331	Irrigation	4279		55.74	Ogll	Mar.18,1971	
33.44331	Abandoned windmill	4269		54.42	Ogll	Mar.18,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
11.33.34.12213	Used windmill	4255		45.61	Ogll	Mar.18,1971	
11.34.10.41322	Abandoned oil test	4144		20.65	Ogll	Mar.18,1971	
11.44440	Used windmill	4138		26.50	Ogll	Mar.18,1971	
14.43434	Irrigation	4143		37.24	Ogll	Mar.18,1971	
15.11131	Used windmill	4133		9.09	Ogll	Mar.18,1971	
15.34443	Used windmill	4138		15.83	Ogll	Mar.18,1971	
16.33433	Used windmill	4170		23.88	Ogll	Mar.19,1971	
23.13223	Irrigation	4145		39.60	Ogll	Mar.19,1971	
23.23333	Irrigation	4145		26.40	Ogll	Feb. 6,1961	
23.233341	Abandoned irrigation	4145		32.63	Ogll	Mar.19,1971	
23.24444	Irrigation	4142		40.17	Ogll	Mar.19,1971	
23.34234	Irrigation	4146		40.59	Ogll	Mar.29,1971	
24.13131	Irrigation	4142		30.98	Ogll	Mar.18,1971	
24.31311	Irrigation	4142		33.81	Ogll	Mar.18,1971	
25.21112	Open cased hole	4142		28.15	Ogll	Mar.17,1971	
26.24344	Used windmill	4147		25.82	Ogll	Mar.18,1971	
28.44412		4168		26.06	Ogll	Feb. 7,1961	
29.23333	Used windmill	4193		25.17	Ogll	Mar.19,1971	
31.311	Stock			31.38	Ogll	Feb.22,1978	S.C.1300;Yield:8g
31.42442	Used windmill	4194		18.16	Ogll	Mar.19,1971	
35.21211	Used windmill	4098	35	28.70	Ogll	Mar.12,1971	
11.35.25.44341	Used windmill	4073	208	23.34	Ogll	Mar.12,1971	
26.31121	Used windmill	4104	35	25.98	Ogll	Mar.12,1971	
35.21211	Used windmill	4098	35	28.70	Ogll	Mar.12,1971	
11.36.28.33343	Used windmill	4029		20.84	Ogll	Mar.12,1971	
33.33234	Used windmill	4029		16.91	Ogll	Mar.12,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
11.36.35.34334	Used windmill	3985		23.85	Ogll	Mar.16,1971	
11.37.22.32333	Used windmill	3930.96	68	59.81	Ogll	Mar.16,1971	
24.31342	Abandoned stock	3919		70.84	Ogll	Mar.16,1971	
24.33131	Stock	3921.41		47.03	Ogll	Feb.7,1961	
24.44112	Used windmill	3931		74.05	Ogll	Mar.6,1971	
26.42221	Stock	3917		61.35	Ogll	Mar.16,1971	
28.434112	Used windmill	3933		44.16	Ogll	Mar.16,1971	
31.33434	Used windmill	3956		20.43	Ogll	Mar.12,1971	
32.24212	Used windmill	3940.60	55	41.01	Ogll	Mar.15,1971	
32.32344	Used windull	3947	55	33	Ogll	Mar.15,1971	
33.224312	Used windmill	3930.60		43.65	Ogll	Apr.17,1973	
11.38.20.44444	Used windmill	3906	105	85.53	Ogll	Mar.16,1971	
30.14441	Used windmill	3902		69.49	Ogll	Mar.17,1971	
30.33223	OPen cased hole	3904		66.02	Ogll	Mar.17,1971	
32.42212	Stock	3885	76	59.26	Ogll	Mar.17,1971	
34.33311	Abandoned stock	3872		49.03	Ogll	Mar.17,1971	
35.43331	Used windmill	3862		53.25	Ogll	Mar.17,1971	
12.32. 2.12212	Used windmill	4353		49.28	Ogll	Feb.9,1966	
3.433	Unused observation			51.41	Ogll	Jan.7,1975	
4.42442	Used windmill	4396		27.77	Ogll	Mar.31,1971	
12.24222	Used windmill	4314		80.68	Ogll	Mar.31,1971	
13.11313	Used windmill	4315		33.05	Ogll	Mar.31,1971	
15.34433	Used windmill	4356		40.23	Ogll	Mar.31,1971	
16.14144	Used windmill	4378		40.73	Ogll	Feb.8,1966	
19.14444	Shot hole	4394		79.02	Ogll	Mar.30,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
12.32.23.13344	Industrial	4344		36.66	Ogll	Jan.17,1961	
23.33332	Used windmill	4331		35.44	Ogll	Mar.31,1971	
24.11311	Used windmill	4315		27.36	Ogll	Mar.31,1971	
30.24444	Used windmill	4380		100.01	Ogll	Mar.30,1971	
31.23332	Secondary recovery	4386		131.49	Ogll	Mar.30,1971	
12.33. 1.14443	Used windmill	4224		43.57	Ogll	Mar.26,1971	
3.42222	Used windmill	4243		44.70	Ogll	Mar.26,1971	
6.11212	Open cased hole	4301		66.25	Ogll	Mar.25,1971	
7.22121	Used windmill	4284		75.49	Ogll	Mar.25,1971	
9.24442	Used windmill	4263		60.53	Ogll	Mar.25,1971	
11.11212	Used windmill	4241		45.98	Ogll	Mar.26,1971	
12.13124	Used windmill	4230		44.55	Ogll	Mar.26,1971	
12.33332	Used windmill	4227		46.28	Ogll	Mar.26,1971	
14.23332	Used windmill	4236		58.13	Ogll	Mar.26,1971	
15.34112	Used windmill	4259		71.58	Ogll	Mar.26,1971	
16.43331	Used windmill	4269		76.83	Ogll	Mar.26,1971	
19.24144	Used windmill	4293		91.54	Ogll	Mar.31,1971	
25.11321	Used windmill	4225		67.06	Ogll	Mar.25,1971	
27.24424	Used windmill	4244		79.56	Ogll	Mar.25,1971	
28.211	Unused observation			81.97	Ogll	Jan.8,1975	
30.23213	Used windmill	4290		82.47	Ogll	Mar.31,1971	
32.22222	Used windmill	4275		84.13	Ogll	Mar.31,1971	
34.44444	Used windmill	4243		87.31	Ogll	Mar.25,1971	
35.41444	Used windmill	4229		79.53	Ogll	Mar.25,1971	
36.32121	Used windmill	4227		80.24	Ogll	Mar.25,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
12.34. 2.213212	Industrial	4148.7	115	27.12	Ogll	Mar.4,1971	
5.34433	Used windmill	4191		34.58	Ogll	Mar.25,1971	
11.413	Unused	4150	87.7	33.70	Ogll	Jan.7,1975	
13.11222	Irrigation	4137.3		42.76	Ogll	Mar.25,1971	
13.112	Irrigation		110	33.69	Ogll	Jan.26,1962	
14.24242	Irrigation	413.81		50.15	Ogll	Mar.25,1971	
14.43411	Oil test	4148	67.5	38.71	Ogll	Mar.4,1971	
16.111331	Irrigation	4182.3		40.86	Ogll	Mar.4,1971	
16.33113	Irrigation	4183.9		45.14	Ogll	Mar.25,1971	
17.12213	Oil test	4187		42.09	Ogll	Mar.25,1971	
17.13441	Irrigation	4190.2		43.92	Ogll	Mar.25,1971	
18.12231	Used windmill	4204		43.69	Ogll	Mar.25,1971	
19.43211	Used windmill	4205		54.39	Ogll	Mar.25,1971	
22.44114	Open cased hole	4154		39.58	Ogll	Mar.5,1971	
23.44214	Oil test	4140		38.76	Ogll	Mar.4,1971	
25.12222	Used windmill	4131		36.37	Ogll	Mar.4,1971	
28.34434	Used windmill	4178		51.70	Ogll	Mar.4,1971	
30.21111	Cased shot hole	4208		57.19	Ogll	Mar. 4,1971	
30.21311	Cased open hole	4208		58.57	Ogll	Feb.15,1961	
31.22113	Used windmill	4198		57.87	Ogll	Mar.25,1971	
34.14114	Open cased hole	4158		45.36	Ogll	Mar.5,1971	
34.22314	Open cased hole	4150		41.30	Ogll	Mar.5,1971	
35.21123	Used windmill	4140		40.71	Ogll	Mar.4,1971	
35.411	Irrigation		130	36.92	Ogll	Jan.7,1975	
36.42224	Used windmill	4120		34.92	Ogll	Mar.4,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
12.35. 1.41221	Used windmill	4073		22.92	Ogll	Mar.19,1971	
3.24343	Used windmill	4112		26.80	Ogll	Feb.9,1966	
4.41211	Used windmill	4138		32.78	Ogll	Mar.19,1971	
7.21323	Used windmill	4124		29.68	Ogll	Mar.5,1971	
11.13332	Used windmill	4104		62.66	Ogll	Mar.19,1971	
12.42244	Used windmill	4063		30.08	Ogll	Feb.9,1966	
13.32231	Used windmill	4020		23.39	Ogll	Mar.19,1971	
14.14334	Used windmill	4044		19.63	Ogll	Mar.19,1971	
14.313212	Irrigation	4049	150	12.56	Ogll	Mar.19,1971	
21.11311	Used windmill	4086		28.13	Ogll	Mar.4,1971	
21.313212	Irrigation	4049	150	12.56	Ogll	Mar.19,1971	
24.31311	Irrigation	4025		22.80	Ogll	Mar.10,1971	
24.41313	Irrigation	4021		25.15	Ogll	Mar.10,1971	
25.21342	Used windmill	4020		24.18	Ogll	Mar.10,1971	
25.42222	Used windmill	4015		31.45	Ogll	Mar.10,1971	
27.41312	Abandoned windmill	4046		21.86	Ogll	Mar.10,1971	
30.32422	Used windmill	4121		36.33	Ogll	Mar.4,1971	
12.36.11.14441	Used windmill	3977		30.21	Ogll	Mar.18,1971	
13.14144	Open cased hole	3956		26.0	Ogll	Feb.8,1961	
14.43343	Used windmill	3971		27.05	Ogll	Mar.10,1971	
15.12442	Used windmill	3994		26.68	Ogll	Mar.18,1971	
16.24112	Windmill	4009		27.34	Ogll	Mar.18,1971	
16.43334	Unused irrigation	3996		25.20	Ogll	Mar.10,1971	
17.44444	Used windmill	4001		28.61	Ogll	Mar.10,1971	
19.22312	Used windmill	4005	40	30.67	Ogll	Mar.19,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
12.36.19.41311	Abandoned irrigation	4007		31.57	Ogll	Mar.19,1971	
21.33231	Unused municipal	3997		26.59	Ogll	Feb.7,1961	
22.33333	Open cased hole	3991		23.48	Ogll	Feb.8,1961	
22.34343	Domestic	3990	285	19.97	Ogll	Mar.10,1971	
24.23231	Used windmill	3954		27.48	Ogll	Mar.18,1971	
25.222	State well		38.5	20.45	Ogll	Sep.10,1947	
26.34434	Used windmill	3958		19.07	Ogll	Mar.18,1971	
27.212	State well		41	35.26	Ogll	Jul.26,1948	
28.31131	Used windmill	3993	60	23.69	Ogll	Mar.10,1971	
29.111	Irrigation			32.32	Ogll	Jan.12,1952	
29.112	Former recorder well			34.62	Ogll	Sep.14,1965	
29.11313	Used windmill	4005		31.49	Ogll	Mar.10,1971	
29.122	Abandoned irrigation		75	31.12	Ogll	Nov.20,1952	
29.22343	Lawn use	3997		26.30	Ogll	Mar.10,1971	
29.241	Abandoned domestic		50	28.31	Ogll	Mar.19,1958	
31.22322	Open cased hole	4007		37.22	Ogll	Jan.26,1961	
32.12121	Domestic	3999		32.85	Ogll	Mar.10,1971	
32.31332	Irrigation	4005		47.81	Ogll	Feb.11,1966	
32.33121	Irrigation	4004		51.79	Ogll	Sep.2,1971	
33.13331	Used windmill	3988		29.21	Ogll	Mar.10,1971	
12.37. 1.33311	Open cased hole	3893		24.50	Ogll	Mar.17,1971	
2.12411	Used windmill	3901		36.93	Ogll	Mar.17,1971	
4.33323	Used windmill	3928		27.94	Ogll	Mar.17,1971	
6.13113	Irrigation	3956		24.15	Ogll	Mar.17,1971	
6.1313	Irrigation			21.34	Ogll	Jan.7,1975	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
12.37. 7.13232	Used windmill	3951		25.22	Ogll	Mar.17,1971	
10.11114	Used windmill	3919		33.87	Ogll	Mar.17,1971	
12.41334	Used windmill	3879		25.05	Ogll	Mar.15,1971	
13.42222	Used windmill	3877		26.29	Ogll	Mar.15,1971	
15.13112	Used windmill	3913		34.31	Ogll	Mar.17,1971	
15.24443	Used windmill	3904	42	33.01	Ogll	Mar.17,1971	
17.24422	Used windmill	3930		23.28	Ogll	Mar.17,1971	
18.13111	Used windmill	3949		23.25	Ogll	Mar.17,1971	
18.33334	Used windmill	3949		22.69	Ogll	Mar.18,1971	
20.11111	Open cased hole	3940		19.14	Ogll	Mar.18,1971	
20.22333	Used windmill	3930		16.31	Ogll	Mar.17,1971	
20.331	Used well		186	31.94	Ogll	Jan.13,1955	
20.343	Irrigation		200	20.87	Ogll	Jan.7,1975	
21.44343	Windmill	3906		29.03	Ogll	Feb.17,1966	Hand dug
22.22112	Used windmill	3902		29.60	Ogll	Mar.17,1971	
23.13332	Open cased hole	3896		28.24	Ogll	Mar.17,1971	
23.43334	Used windmill	3881		24.55	Ogll	Mar.15,1971	
26.43343	Used windmill	3890		34.17	Ogll	Mar.18,1971	
27.21333	Used windmill	3898		44.45	Ogll	Mar.18,1971	
29.43334	Used windmill	3916		37.60	Ogll	Mar.18,1971	
31.32223	Used windmill	3925		31.95	Ogll	Mar.18,1971	
33.34244	Used windmill	3901		36.32	Ogll	Mar.18,1971	
34.434431	Used windmill	3885		36.63	Ogll	Mar.18,1971	
35.14442	Used windmill	3877		33.54	Ogll	Mar.18,1971	
35.22422	Used windmill	3874		31.70	Ogll	Mar.18,1971	

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
12.38. 4.312			270	39.68	Ogll	Jan.7,1975	
4.34441	Domestic	3861	60	30.93	Ogll	Feb.8,1961	
5.23333	Used windmill	3869		34.65		Mar.16,1971	
6.13333	Used windmill	3884		36.45		Mar.15,1971	
8.14113	Used windmill	3866		30.09	Ogll	Mar.16,1971	
11.42221	Used windmill	3815		36.74	Ogll	Mar.16,1971	
13.14144	Used windmill	3793		29.98	Ogll	Mar.16,1971	
16.43224	Stock	3819		7.78	Ogll	Mar.16,1971	
18.21211	Industrial	3871		18.99	Ogll	Mar.15,1971	
18.23343	Abandoned windmill	3869		19.80	Ogll	Mar.15,1971	
19.14320	Used windmill	3873		20.75	Ogll	Mar.15,1971	
19.44444	Used windmill	3860		21.58	Ogll	Mar.3,1971	
20.22122	Used windmill	3852		23.52	Ogll	Sep.2,1971	
22.44114	Used windmill	3800		22.20	Ogll	Mar.16,1971	
23.42421	Used windmill	3789		23.78	Ogll	Mar.16,1971	
26.34333	Used windmill	3793		29.06	Ogll	Mar.16,1971	
27.11313	Used windmill	3810		25.66	Ogll	Mar.16,1971	
28.34243	Used windmill	3821		25.86	Ogll	Mar.17,1971	
29.42222	Used windmill	3834		29.42	Ogll	Feb.9,1961	
30.14411	Used windmill	3860		32.91	Ogll	Mar.17,1971	
31.42222	Used windmill	3844		32.95	Ogll	Mar.17,1971	
32.34213	Used windmill	3833		36.71	Ogll	Mar.17,1971	
33.13423	Used windmill	3825		31.99	Ogll	Mar.17,1971	
33.33333	Abandoned stock	3826		46.81	Ogll	Mar.17,1971	
13.32. 6.43334	Used secondary recovery	4375		129.74	Ogll	Mar.16,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
13.32. 7.13131	Secondary recovery	4383	225	148.40	Ogll	Feb.14,1966	Abandoned
8.31333	Open cased hole	4362		122.85	Ogll	Mar.23,1961	
8.31343	Oil test	4365		126.02	Ogll	Mar.16,1971	
9.33111	Open cased hole	4350		133.42	Ogll	Mar.17,1971	
16.41444	Open cased hole	4326		140.80	Ogll	Mar.17,1971	
20.41111	Used windmill	4328		138.21	Ogll	Mar.17,1971	
21.33230	Used secondary recovery	4336		157.60	Ogll	Mar.17,1971	
22.44144	Abandoned windmill	4306		136.82	Ogll	Mar.17,1971	
24.21421	Used windmill	4305		143.96	Ogll	Mar.17,1971	
25.21422	Open cased hole	4297		143.30	Ogll	Mar.17,1971	
25.214	Unused			142.86	Ogll	Jan.8,1975	
33.433123	Open cased hole	4337		273	Ogll	Mar.19,1971	
35.31313	Used windmill	4296		146.21	Ogll	Mar.17,1971	
13.33. 1.43434	Abandoned windmill	4208		71.44	Ogll	Mar.11,1971	
3.113421	Abandoned stock	4254		97.88	Ogll	Mar.10,1971	
5.34333	Used windmill	4271		116.74	Ogll	Mar.10,1971	
9.111111	Open cased hole	4256		104.19	Ogll	Mar.10,1971	
11.12122	Stock	4236		84.16	Ogll	Feb.10,1966	
11.44321	Abandoned			87.35	Ogll	Mar.10,1971	
14.42411	Open cased hole	4224		84.17	Ogll	Mar.17,1971	
20.11431	Used windmill	4279		128.75	Ogll	Mar.10,1971	
21.41121	Used windmill	4250		106.91	Ogll	Mar.10,1971	
22.323	Abandoned			47.34	Ogll	Jan.17,1969	
22.42111	Used windmill	4226		87.81	Ogll	Mar.10,1971	
26.23434	Used windmill	4211		81.00	Ogll	Mar.17,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
13.33.28.44444	Used windmill	4231		96.70	Ogll	Mar.10,1971	
29.12221	Used windmill	4264		117.65	Ogll	Mar.10,1971	
35.31331	Used windmill	4210		89.15	Ogll	Mar.22,1961	
35.341432	Abandoned		124	85.90	Ogll	Mar.10,1971	
13.34. 1.12221	Open cased hole	4125		38.33	Ogll	Mar.11,1971	
2.41212	Used windmill	4134		41.82	Ogll	Mar.17,1971	
4.43334	Used windmill	4162		56.84	Ogll	Mar.11,1971	
8.31333	Used windmill	4184		64.57	Ogll	Mar.11,1971	
8.44424	Open cased hole	4166		60.53	Ogll	Mar.17,1971	
9.31121	Irrigation	4165		59.22	Ogll	Feb.13,1961	
9.42224	Irrigation	4159		58.65	Ogll	Mar.9,1971	
14.13111	Irrigation	4143	175	55.62	Ogll	Mar.9,1971	
14.14242	Irrigation	4133		53.16	Ogll	Mar.9,1971	
15.14444	Used windmill	4147		56.14	Ogll	Mar.9,1971	
17.13223	Irrigation	4174		64.34	Ogll	Mar.11,1971	
18.42433	Used windmill	4175		62.41	Ogll	Mar.11,1971	
19.42212	Used windmill	4169		63.49	Ogll	Mar.11,1971	
21.111	Irrigation			62.12	Ogll	Jan.7,1975	
22.12121	Irrigation	4147		60.80	Ogll	Mar.9,1971	
23.21112	Irrigation	4130		52.66	Ogll	Mar.9,1971	
24.31111	Irrigation	4121		56.74	Ogll	Jun.13,1972	
26.31112	Abandoned open hole	4126		52.72	Ogll	Mar.9,1971	
27.22121	Irrigation	4135		57.55	Ogll	Mar.9,1971	
27.33331	Irrigation	4140		57.89	Ogll	Mar.9,1971	
28.21111	Irrigation	4148		58.79	Ogll	Mar.11,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
13.34.28.33131	Irrigation			60.87	Ogll	Mar.11,1971	
29.12331	Used windmill	4161		62.99	Ogll	Mar.11,1971	
31.13313	Used windmill	4188		71.50	Ogll	Mar.11,1971	
35.13331	Used windmill	4120		54.73	Ogll	Mar.11,1971	
13.35. 1 12113	Abandoned open hole	4021		32.11	Ogll	Mar.4,1971	
2.111	Unused test well		44.5	28.25	Ogll	Jan.7,1975	Drilled well
3.14221	Used windmill	4047		32.66	Ogll	Mar.11,1971	
3.33212	Irrigation	4049		37.17	Ogll	Feb.15,1966	
4.12224	Used windmill	4069		27.86	Ogll	Feb.14,1961	
5.34434	Used windmill	4084		36.05	Ogll	Mar.14,1971	
6.31111	Irrigation	4117	115	40.18	Ogll	Mar.11,1971	
7.41313	Used windmill	4102		43.05	Ogll	Mar.4,1971	
9.13433	Abandoned irrigation	4056		37.16	Ogll	Mar.11,1971	
11.11111	Abandoned irrigation	4035		38.34	Ogll	Feb.16,1966	
11.222	Used dug well		80	45.10	Ogll	Mar.8,1971	
12.21121	Irrigation	4018		47.81	Ogll	Mar.5,1971	
13.121221	Irrigation	4018		49.51	Ogll	Mar.5,1971	
13.24434	Abandoned domestic	4011		49.45	Ogll	Mar.5,1971	
15.22131	Used windmill	4037		42.16	Ogll	Mar.8,1971	
17.23311	Abandoned irrigation	4080		44.45	Ogll	Mar.8,1971	
19.211	Irrigation		144	46.60	Ogll	Jan.7,1974	
20.31113	Abandoned irrigation	4083		45.49	Ogll	Mar.8,1971	
21.11413	Used windmill	4064		41.84	Ogll	Mar.8,1971	
23.22224	Used domestic	4019		47.35	Ogll	Mar.5,1971	
24.33321	Used windmill	4014		49.41	Ogll	Mar.5,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
13.35.25.31111	Irrigation	4014		49.89	Ogll	Mar.5,1971	
26.31111	Irrigation	4027		45.10	Ogll	Mar.8,1971	
30.13133	Used windmill	4102		53.62	Ogll	Mar.8,1971	
31.11121	Irrigation	4096		50.58	Ogll	Mar.8,1971	
32.311121	Irrigation	4075		44.43	Ogll	Mar.8,1971	
33.11313	Used windmill	4063		52.76	Ogll	Mar.8,1971	
34.31112	Abandoned irrigation	4041		41.11	Ogll	Mar.8,1971	
35.31111	Irrigation	4025		42.95	Ogll	Mar.8,1971	
13.36. 3.32323	Used windmill	3976		39.75	Ogll	Mar.3,1971	
6.22121	Irrigation	4006		48.84	Ogll	Feb.23,1971	
6.231	Irrigation		103	38.84	Ogll	Jul.28,1949	
6.413	Irrigation		105	49.84	Ogll	Feb.8,1961	
7.34434	Used windmill	4009		52.77	Ogll	Mar.5,1971	
8.31211	Irrigation	4002		52.38	Ogll	Feb.23,1971	
9.111	Irrigation			42.60	Ogll	Jan.13,1952	
9.12122	Used windmill	3985		42.93	Ogll	Feb.23,1971	
11.23434	Used windmill	3947		33.13	Ogll	Mar.3,1971	
13.23433	Irrigation	3920		45.53	Ogll	Mar.3,1971	
13.23433	Irrigation	3920		45.53	Ogll	Mar.3,1971	
16.24343	Used windmill	3968		45.10	Ogll	Feb.23,1971	
17.22121	Used windmill	3988		49.13	Ogll	Feb.23,1971	
20.11111	Irrigation	3992		50.14	Ogll	Feb.23,1971	
21.1331	Irrigation			64.20	Ogll	Jan.7,1975	
21.41121	Irrigation	3970		59.56	Ogll	Feb.26,1971	
22.41131	Used windmill	3953		54.60	Ogll	Feb.26,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
13.36.23.41121	Used windmill	3934		47.71	Ogll	Feb.26,1971	
25.22222	Used windmill	3909		50.23	Ogll	Feb.26,1971	
26.324	Irrigation		120	76.20	Ogll	Jan7,1975	
28.113	Irrigation		100	64.03	Ogll	Jan.7,1970	
31.12222	Irrigation	3984		61.89	Ogll	Mar.5,1971	
32.211	Irrigation			62.40	Ogll	Jan.30,1962	
32.31333	Irrigation	3980		64.30	Ogll	Mar.5,1971	
33.321	Unused irrigation		107	65.99	Ogll	Feb.27,1963	Dug well
34.12121	Irrigation	3953		78.88	Ogll	Feb.24,1971	
34.211111	Irrigation	3950		62.02	Ogll	Feb.10,1961	
34.31111	Irrigation	3950		77.28	Ogll	Feb.24,1971	
35.324	Irrigation			72.21	Ogll	Feb.7,1961	
35.413	Used windmill		102	66.68	OGll	Jan.30,1962	
36.12122	Irrigation	3924		78.79	Ogll	Feb.24,1971	
13.37. 1.24224	Irrigation	3864		50.24	Ogll	Mar.3,1971	
1.33133	Irrigation	3872		51.16	Ogll	Mar.3,1971	
4.242	Irrigation	3900		46.01	Ogll	Jan.26,1962	
4.24344	Irrigation		227	35.69	Ogll	Jan.7,1975	
4.32121	Used windmill	3936		31.70	Ogll	Feb.24,1971	
7.121	Unused		114	31.48	Ogll	Apr.1,1945	
8.33133	Irrigation	3909		41.20	Ogll	Feb.24,1971	
9.111			242	41.29	Ogll	Jan.7,1974	
10.2120	Open cased hole	3881		35.61	Ogll	Feb.14,1961	
10.343322	Used windmill	3882		43.16	Ogll	Mar.3,1971	
11.113134	Abandoned stock	3880		44.14	Ogll	Mar.3,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
13.37.11.13333	Irrigation	3875		40.75	Ogll	Mar.27,1966	
11.33141	Used windmill	3872		37.41	Ogll	Feb.13,1961	
13.14213			42	36.34	Ogll	Mar.27,1966	
13.21133	Stock	3853.70		41.68	Ogll	Mar.3,1971	
16.12331	Used windmill	3898		43.18	Ogll	Feb.24,1971	
17.21123	Irrigation	3904		44.75	Ogll	Feb.24,1971	
17.23112	Used windmill	3904	103	40.83	Ogll	Feb.14,1961	
17.31123	Irrigation	3909	1350	47.45	Ogll	Feb.24,1971	
17.33312	Irrigation	3915	155	40.05	Ogll	Feb.14,1961	
17.44242	Used windmill	3896		41.09	Ogll	Feb.24,1971	
18.11141	Irrigation	3918		46.00	Ogll	Mar.3,1971	
18.34314	Irrigation	3916		52.10	Ogll	Mar.3,1971	
22.11212	Used windmill	3887		49.70	Ogll	Mar.3,1971	
23.34333	Used windmill	3860		45.68	Ogll	Feb.24,1971	
24.11111	Used windmill	3854		38.16	Ogll	Feb.26,1971	
24.42322	Used windmill	3864		68.32	Ogll	Feb.26,1971	
25.13133	Irrigation	3857		53.42	Ogll	Feb.26,1971	
25.43321	Used windmill	3846		54.08	Ogll	Mar.24,1966	
26.43332	Used windmill	3854		49.80	Ogll	Feb.24,1971	
28.230	Irrigation			33.76	Ogll	Jan.30,1946	
28.411	Well Filled			31.21	Ogll	Jan.17,1944	
28.413	Irrigation			60.55	Ogll	Jan.7,1975	
29.43213	Used windmill	3884		52.38	Ogll	Feb.24,1971	
30.22424	Used windmill	3898		46.56	Ogll	Feb.8,1966	
31.11313	Irrigation	3906		71.57	Ogll	Feb.24,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
13.37.31.42121	Irrigation	3892		71.64	Ogll	Feb.24,1971	
32.41113	Irrigation	3885		67.75	Ogll	Feb.24,1971	
33.1113	Irrigation	3869		62.33	Ogll	Feb.24,1971	
34.21111	Irrigation	3863		52.07	Ogll	Feb.24,1971	
35.13333	Irrigation	3856		52.35	Ogll	Feb.13,1961	
13.38. 2.42243	Irrigation	3793		76.54	Ogll	Feb.25,1971	
6.12212	Used windmill	3861		48.48	Ogll	Feb.26,1971	
6.31433	Irrigation		120	60.92	Ogll	Jan.7,1975	
7.11111	Irrigation	3859		59.24	Ogll	Feb.10,1966	
8.31222	Irrigation	3834		64.10	Ogll	Feb.26,1971	
9.33213	Irrigation	3830		65	Ogll	Feb.26,1971	
10.24443	Abandoned windmill	3810		68.87	Ogll	Feb.15,1966	
11.41441	Irrigation	3803		79.52	Ogll	Feb.25,1971	
11.42433	Domestic	3803		80.10	Ogll	Feb.25,1971	
12.33412	Irrigation	3802		84.30	Ogll	Feb.25,1971	
14.12112	Open cased hole	3804		67.04	Ogll	Feb.9,1961	
14.32232	Irrigation	3804		74.95	Ogll	May 4,1971	
14.33342	Used windmill	3802		66.47	Ogll	Feb.9,1961	
15.32311	Used windmill	3811		61.40	Ogll	Feb.25,1971	
16.41333	Used windmill	3818		59.90	Ogll	Feb.25,1971	
17.11313	Irrigation	3836		52.84	Ogll	Feb.26,1971	
17.33334	Abandoned irrigation	3840		53.29	Ogll	Feb.26,1971	
18.11111	Domestic	3845		37.71	Ogll	Mar.27,1966	
18.33131	Irrigation	3848		66.93	Ogll	Feb.13,1961	
19.34214	Irrigation	3865		79.34	Ogll	Feb.26,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
13.38.21.11311	Used windmill	3826		60.57	Ogll	Mar.4,1971	
21.43344	Open cased hole	3817		55.44	Ogll	Feb.25,1971	
23.22233	Used windmill	3798		74.51	Ogll	Feb.9,1961	
23.333332	Abandoned stock	3795		60.73	Ogll	Feb.25,1971	
25.11114	Irrigation	3792		67.45	Ogll	Feb.25,1971	
27.14434	Used windmill	3804		62.83	Ogll	Feb.25,1971	
30.14211	Irrigation	3856		69.46	Ogll	Feb.26,1971	
31.21313	Used windmill	3839		66.18	Ogll	Feb.25,1971	
33.11331	Used windmill	3832		70.58	Ogll	Feb.25,1971	
35.31133	Abandoned windmill	3806		68.36	Ogll	Feb.25,1971	
36.11414	Abandoned windmill	3785		63.37	Ogll	Feb.14,1961	
14.32. 6.21311	Windmill	4371		216.50	Ogll	Mar.15,1961	
7.41111	Windmill	4359		217.78	Ogll	Mar.24,1971	
9.41112		4320		191.78	Ogll	Mar.24,1971	
14.121	Used windmill	4300		143.95	Ogll	Feb.9,1966	
19.44441	Secondary recovery	4347		217	Ogll	Mar.24,1971	
20.23233	Windmill	4344		208.25	Ogll	Mar.24,1971	
21.14444	Windmill	4340		215.93	Ogll	Mar.24,1971	
23.11313	Windmill	4299		187.26	Ogll	Mar.24,1971	
28.34242	Windmill	4301		172.94	Ogll	Mar.24,1971	
29.11114	Secondary recovery	4348		216.66	Ogll	Mar.24,1971	
29.14444	Windmill	4348		218.94	Ogll	Feb.16,1966	
30.22223	Secondary recovery	4348		216.81	Ogll	Mar.24,1971	
31.13133	Shot hole	4357		224.32	Ogll	Apr.5,1961	
32.11331	Secondary recovery	4349		219.99	Ogll	Mar.24,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
14.32.32.43221	Abandoned oil test	4323		198.49	Ogll	Mar.24,1971	
35.33334	Windmill	4270		154.48	Ogll	Feb.16,1966	
35.33334	Windmill	4272		161.66	Ogll	Mar.24,1971	
14.33. 2.21312	Unused oil test	4204		84.07	Ogll	Mar.23,1971	
6.44343	Oil test	4270		135.47	Ogll	Mar.24,1971	
9.4432	Open cased hole	4221		105.52	Ogll	Mar.13,1961	
10.13433	Windmill	4211		93.24	Ogll	Feb.16,1966	
12.22421	Windmill	4176		78.69	Ogll	Feb.17,1961	
12.22421	Windmill	4176		80.75	Ogll	Mar.23,1971	
14.11434	Windmill	4192		87.05	Ogll	Jan.9,1970	
18.44444	Windmill	4247		125.38	Ogll	Mar.24,1971	
22.42224	Windmill	4197		97.39	Ogll	Mar.24,1971	
24.42422	Windmill	4167		95.60	Ogll	Mar.23,1971	
27.22313	Open hole	4196		96.74	Ogll	Mar.24,1971	
28.41313	Abandoned well	4210		107.35	Ogll	Mar.24,1971	
33.44434	Open hole	4201		107.14	Ogll	Mar.25,1971	
34.344	Industrial		269	104.44	Ogll	Jan.10,1955	
35.133				100.67	Ogll	Jan.8,1975	
36.32211	Windmill	4169		87.50	Ogll	Mar.24,1971	
14.34. 7.13333	Windmill	4170		75.57	Ogll	Mar .23,1971	
8.12112	Windmill	4159		66.85	Ogll	Mar .23,1971	
9.11414	Windmill	4141		57.74	Ogll	Mar.23,1971	
11.12313	Windmill	4107		43.84	Ogll	Mar.23,1971	
11.24444	Windmill	4096		43.48	Ogll	Feb.17,1966	
16.233	Windmill			54.74	Ogll	Feb.16,1965	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
14.34.17.34334	Windmill	4149		67.00	Ogll	Mar.23,1971	
18.22212	Windmill	4161		70.86	Ogll	Mar.23,1971	
21.24444	Windmill	4119		60.90	Ogll	Mar.23,1971	
24.41333	Windmill	4073		50.15	Ogll	Feb.10,1961	
25.34134	Windmill	4074		52.41	Ogll	Mar .23,1971	
27.44442	Windmill	4096		59.39	Ogll	Mar.23,1971	
29.43333	Windmill	4136		71.73	Ogll	Mar.23,1961	
14.35. 2.112	Unused stock			45.62	Ogll	Jan.14,1971	
3.43422	Windmill	4025		50.01	Ogll	Mar.9,1971	
4.23312	Windmill	4047		43.36	Ogll	Mar.9,1971	
5.11411	Irrigation	4074		45.03	Ogll	Mar.9,1971	
6.14411	Windmill	4081		41.54	Ogll	Mar.9,1971	
6.211				45.20	Ogll	Jan.7,1975	
7.34334	Windmill	4073		44.34	Ogll	Feb.3,1961	
8.32422	Windmill	4050		36.43	Ogll	Mar.9,1971	
12.11141	Irrigation	4005		60.86	Ogll	Mar.9,1971	
14.14313	Irrigation	4005		56.10	Ogll	Mar.9,1971	
14.21222	Irrigation	4004		57.82	Ogll	Feb.26,1971	
15.21111	Irrigation	4015		49.69	Ogll	Mar.9,1971	
16.31111	Irrigation	4035		33.66	Ogll	Mar.9,1971	
21.14333	Irrigation	4029		32.10	Ogll	Mar.9, 1971	
23.313	Irrigation	4020		43.50	Ogll	Jan.7,1975	
24.13222	Irrigation	3991		57.40	Ogll	Feb.26,1971	
25.24122	Irrigation	3946.3	110	62.22	Ogll	Jan.7,1975	
28.43434	Windmill	4016		42.91	Ogll	Mar.9,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
14.35.29.31212	Windmill	4043		43.68	Ogll	Mar.9,1971	
30.14341		4053.7	100	49.95	Ogll	Jan.7,1975	
32.32221	Windmill	4023		44.45	Ogll	Mar.9,1971	
33.433			62	46.18	Ogll	Jan.7,1975	
35.23121	Irrigation	3983		48.66	Ogll	Feb.26,1971	
36.23111	Irrigation	3970		49.85	Ogll	Feb.24,1971	
14.36. 1.211	Irrigation	3900	132	80.12	Ogll	Jan.7,1975	
1.33333	Irrigation	3918		71.67	Ogll	Feb.25,1971	
2.113114	Irrigation	3936.2	125	84.68	Ogll	Jan.7,1975	
2.410	Well filled			54.26	Ogll	Jan.12,1955	
2.411114	Irrigation	3927		77.97	Ogll	Feb.25,1971	
3.31111	Irrigation	3943		76.06	Ogll	Feb.25,1971	
4.111	Unused domestic			62.21	Ogll	Mar.24,1960	
4.21222	Irrigation	3951		76.50	Ogll	Feb.25,1971	
5.13311	Irrigation	3977		61.13	Ogll	Feb.25,1971	
6.21131	Irrigation	3984		57.22	Ogll	Feb.25,1971	
6.42122	Irrigation	3978.9	92	59.45	Ogll	Jan.7,1975	
8.12131	Irrigation	3969		67.62	Ogll	Feb.25,1971	
9.111134	Used well	3955.2	100	72.77	Ogll	Jan7,1975	
9.211			102	66.18	Ogll	Jan.30,1962	
10.21221	Irrigation	3938.9		81.65	Ogll	Jan.7,1975	
10.31333	Irrigation	3937		69.98	Ogll	Feb.25,1971	
13.12214	Open uncased hole	3902		53.16	Ogll	Feb.2,1961	
13.12223		3900	110	58.32	Ogll	Jan.3,1967	
14.112344		3926.37	98	69.02	Ogll	Jan.7,1975	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
14.37. 5.313113	Irrigation	3884		75.06	Ogll	Feb.18,1971	
6.11111	Irrigation	3903		80.10	Ogll	Feb.18,1971	
6.111	Irrigation	3900		65	Ogll	Jan.29,1962	
6.41111	Irrigation	3891		77.29	Ogll	Feb.18,1971	
7.311	Irrigation			77.20	Ogll	Jan7,1975	
8.113	Irrigation		115	72.97	Ogll	Jan.7,1975	
9.34142	Windmill	3861		61.50	Ogll	Feb.19,1971	
11.11221	Irrigation	3841		83.57	Ogll	Feb.19,1971	
12.31112	Irrigation	3829	140	85.22	Ogll	Feb.24,1971	
13.21313	Irrigation	3819		77.64	Ogll	Feb.24,1971	
13.311	Irrigation			86.86	Ogll	Jan.7,1975	
14.111	Irrigation		140	86.82	Ogll	Jan.7,1975	
14.112	Dry		88	56.20	Ogll	Nov.19,1952	
15.222	Unused irrigation		140	78.38	Ogll	Jun.7,1957	
16.41212	Turbine pump	3846.9		72.75	Ogll	Jan.7,1975	
18.122123	Windmill	3890		71.54	Ogll	FEb.19,1971	
19.111	Irrigation			67.01	Ogll	Jan.7,1975	
20.11111	Irrigation	3873		64.69	Ogll	FEb.19,1971	
20.412	Irrigation		114	75.36	Ogll	Jan.7,1975	
21.11113	Irrigation	3856		71.77	Ogll	Feb.19,1971	
22.21112	Irrigation	3833		78.46	Ogll	Feb.19,1971	
23.213	Irrigation		140	80.79	Ogll	FEb.24,1971	
24.11113	Irrigation	3818		85.76	Ogll	FEb.19,1971	
25.11112	Irrigation	3820		73.86	Ogll	FEb.19,1971	
25.31144	Irrigation	3815		50.14	Ogll	Feb.1,1961	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
14.36.15.21111	Irrigation	3933		72.45	Ogll	Feb.25,1971	
17.31112	Irrigation	3966		58.02	Ogll	Feb.25,1971	
21.111	Irrigation		95	64.49	Ogll	Jan.7,1975	
21.321211	Irrigation	3942		61.86	Ogll	Feb.25,1971	
22.41111	Irrigation	3930		66.38	Ogll	Feb.25,1971	
23.41111	Irrigation	3911		62.94	Ogll	Feb.25,1971	
24.34313	Irrigation	3911		66.67	Ogll	Feb.25,1971	
26.42221	Irrigation	3903		68.82	Ogll	Feb.25,1971	
29.21111	Irrigation			58.29	Ogll	Feb.25,1971	
32.121	Irrigation			67.17	Ogll	Jan.7,1975	
32.1223	Stock		91.2	78.16	Ogll	Feb.23,1978	S.C. 650
32.21121	Irrigation	3948		67.77	Ogll	Feb.25,1971	
33.13131	Irrigation	3943		79.38	Ogll	Jan.7,1975	
34.11111	Irrigation		110	71.43	Ogll	Jan.16,1961	
34.41333	Irrigation	3915		72.68	Ogll	Feb.26,1971	
35.111112	Irrigation	3909	100	70.40	Ogll	Jan.12,1972	
35.21212	Irrigation	3903		66.61	Ogll	Mar.2,1966	
35.33131	Irrigation	3908		69.58	Ogll	Mar.2,1966	
14.37. 1.12224	Windmill	3834		58.36	Ogll	Feb.13,1961	
1.31113	Open hole	3834		77.95	Ogll	Feb.19,1971	
2.121121	Irrigation	3848.60	225	67.87	Ogll	Feb.18,1971	
3.113	Used well		128	34.74	Ogll	Jan.16,1950	
3.11421		3861.6		69.31	Ogll	Jan.7,1975	
4.31131	Irrigation	3870		65.94	Ogll	Feb.18,1971	
5.111	Irrigation			66.16	Ogll	Jan.29.,1962	
5.21111	Irrigation			69.91	Ogll	Jan.7,1975	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
14.37.27.131	Dry		52	50.93	Ogll	Jul.14,1954	
27.21131	Irrigation	3831		72.65	Ogll	Feb.19,1971	
27.311	Irrigation		130	78.54	Ogll	Jan.7,1975	
28.21113	Irrigation	3847		81.77	Ogll	Feb.19,1971	
29.21111	Irrigation	3862		72.95	Ogll	FEb.19,1971	
29.33311	Irrigation	3862		70.34	Ogll	Feb.19,1971	
30.34113	Windmill	3879		61.91	Ogll	Feb.19,1971	
31.33131	Irrigation	3871.5	130	73.38	Ogll	Jan.7,1975	
33.21221	Irrigation	3841		72.43	Ogll	Feb.24,1971	
34.31131	Irrigation	3834		59.28	Ogll	Feb.18,1966	
35.32434	Windmill	3811		47.56	Ogll	FEb.24,1971	
36.11313	Windmill	3812		55.64	Ogll	Feb.24,1971	
36.41342	Irrigation	3799		54.30	Ogll	Feb.24,1971	
14.38. 5.12244	Irrigation	3827		74.57	Ogll	Feb.23,1971	
5.33432	Windmill	3808		54.50	Ogll	Jan.7,1970	
6.11131	Irrigation	3827		71.29	Ogll	Feb.23,1971	
7.11122	Irrigation	3818		59.03	Ogll	Mar.7,1961	
7.113	Irrigation			79.15	Ogll	Jan.7,1975	
7.33211	Irrigation	3815		58.60	Ogll	Feb.17,1966	
8.11432	Windmill	3808		48.29	Ogll	Mar.7,1961	
9.22222	Irrigation	3806		72.68	Ogll	Feb.23,1971	
14.11114	Irrigation	3773		60.69	Ogll	Feb.23,1971	
16.12311	Irrigation	3796		61.22	Ogll	Feb.23,1971	
17.21144	Windmill	3801		55.97	Ogll	Feb.23,1971	
18.34313	Windmill	3805		67.14	Ogll	Feb.24,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
14.38.19.31111	Irrigation	3807		68.32	Ogll	Feb.24,1971	
20.11211	Irrigation	3796		59.88	Ogll	Feb.23,1971	
20.313113	Irrigation	3795.5		60.34	Ogll	Feb.24,1971	
21.21213	Irrigation	3785		56.95	Ogll	Feb.23,1971	
21.311	Irrigation		105	57.22	Ogll	Jan.8,1975	
22.31333	Irrigation	3774		59.93	Ogll	Feb.24,1971	
23.14111	Irrigation	3761		67.84	Ogll	Feb.24,1971	
26.121424	Irrigation	3754.6		69.61	Ogll	FEb.24,1971	
26.311121	Irrigation	3751	141	66.92	Ogll	Feb.24,1971	
26.31313	Irrigation	3750.4		70.76	Ogll	Aug.29,1973	
27.21333	Irrigation	3759		62.15	Ogll	Feb.24,1971	
27.233	Unused irrigation			43.30	Ogll	Jan.19,1951	Has windmill for Stock use
27.240	Well filled			49.87	Ogll	Jan.11,1952	
27.313	Irrigation		150	62.19	Ogll	Jan.8,1975	
28.121	Dry		110	28.58	Ogll	May 19,1950	Dug well
28.13333	Windmill	3774		46.51	Ogll	Feb.23,1971	
31.111	Irrigation	3785	135	64.68	Ogll	Jan.8,1974	
31.22221	Irrigation	3801		61.83	Ogll	FEb.24,1971	
31.33331	Windmill	3791		43.20	Ogll	Feb.17,1966	
33.11111	Windmill	3782		55.19	Ogll	Feb.24,1971	
34.11241	Irrigation	3761		62.38	Ogll	Feb.24,1971	
34.31134	Irrigation	3762		61.89	Ogll	Feb.24,1971	
35.14422	Irrigation	3740		58.93	Ogll	Feb.24,1971	
15.32. 1.22122	Shot hole	4242	125	122.10	Ogll	Mar. 23,1961	
4.34224	Stock	4311		147.06	Ogll	Mar.23,1961	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
15.33.14.100	Stock			104.93	Ogll	Feb.16,1965	
14.143	Stock			101.53	Ogll	Jan.8,1975	
17.23211	Stock	4210	130	121.20	Ogll	Mar.5,1971	
21.34331	Stock	4191		118.04	Ogll	Mar.5,1971	
25.23223	Stock	4137	100	83.98	Ogll	Mar.4,1971	
27.44444	Stock	4156		104.21	Ogll	Feb.15,1966	
29.32113	Stock	4199		123.12	Ogll	Mar.5,1971	
33.42111	Stock	4176		115.54	Ogll	Mar.5,1971	
15.34. 1.22243	Stock	4059		53.01	Ogll	Feb.7,1961	
3.311111	Uncased shot hole	4103		67.58	Ogll	Feb.8,1961	
3.412112	Stock			60.43	Ogll	Mar.11,1971	
5.22214	Capped cased well	4126		71.85	Ogll	Mar.10,1971	
6.31132	Stock	4150		83.52	Ogll	Mar.10,1971	
7.44242	Stock	4129		76.76	Ogll	Mar.10,1971	
11.111333	Irrigation	4085		58.53	Ogll	Mar.11,1971	
11.41323		4074		57	Ogll	Mar.11,1971	
12.11124	Uncased irrigation	4073	107	57.82	Ogll	Mar.8,1971	
12.43211	Irrigation	4068		59.59	Ogll	Mar.8,1971	
15.24344	Stock	4085		62.76	Ogll	Mar.11,1971	
17.44424	Stock	4112		70.36	Ogll	Mar.4,1971	
18.43433	Stock	4127		77.51	Ogll	Sep.3,1971	
24.21133	Stock	4054		59.16	Ogll	Mar.4,1971	
25.311111	Uncased open hole	4053		57.18	Ogll	Mar.3,1971	
26.14444	Stock	4060		55.75	Ogll	Mar.3,1971	
26.32443	Stock	4060		56.63	Ogll	Mar.3,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
15.32. 4.34242	Open case hole	4310		192.42	Ogll	Sep.3,1971	
5.12431	Open case hole	4332		206.20	Ogll	Mar.31,1971	
6.12324	Open cased hole	4350		221.26	Ogll	Mar.31,1971	
6.223	Abandoned observation		209	188.18	Ogll	Jan.7,1975	
14.12121	Shot hole	4276		168.71	Ogll	Apr.1,1971	
15.12122	Shot hole	4294		169.48	Ogll	Feb.9,1966	
16.21112	Shot hole	4302	191	187.86	Ogll	Apr.1,1971	
16.22221	Shot hole	4299	186	186	Ogll	Apr.1,1971	
17.31121	Stock	4311		202.19	Ogll	Apr.3,1970	
17.33322	Open cased hole			209.19	Ogll	Apr.1,1971	
22.33322	Secondary recovery		340	193.94	Ogll	Apr.1,1971	
23.23124	Stock			146.51	Ogll	Apr.1,1971	
28.13224	Stock	4300		213.83	Ogll	Apr.1,1971	
29.44441	Open cased hole	4315		226.05	Ogll	Apr.1,1971	
33.44242	Open cased hole	4286		201.07	Ogll	Feb.14,1966	
35.33333	Industrial	4267		181.65	Ogll	Mar.31,1966	
35.433331	Industrial	4258		174.48	Ogll	Jan.19,1961	
15.33. 2.11422	Shot hole	4183		97.11	Ogll	Mar.4,1971	
3.43312	Oil test	4187		103.94	Ogll	Mar.11,1971	
7.24122	Stock/domestic	4220		122.38	Ogll	Mar.5,1971	
9.23334	Stock	4195		108.91	Ogll	Mar.5,1971	
9.44141	Open cased hole	4195		111.24	Ogll	Mar.5,1971	
10.143221	Open cased hole	4187		107.44	Ogll	Mar.4,1971	
10.212313	Stock	4187		103.17	Ogll	Mar.4,1971	
13.222143	Stock	4140		82.35	Ogll	Mar.10,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
15.34.27.44211	Stock	4072		60.95	Ogll	Mar.3,1971	
28.33333	Stock	4097		68.68	Ogll	Mar.3,1971	
32.11110	Stock	4109		75.55	Ogll	Mar.3,1971	
33.14441	Stock	4085		67.67	Ogll	Mar.3,1971	
35.13433	Stock	4059		57.09	Ogll	Mar.3,1971	
36.142222	Stock	4035		55.73	Ogll	Mar.3,1971	
15.35. 2.21111	Stock	3984		44.54	Ogll	Mar.9,1971	
2.31141	Abandoned irrigation	3989		43.67	Ogll	Feb.6,1961	
3.111	Irrigation	4010	90	42.36	Ogll	Jan.18,1962	
3.12424	Irrigation	3998.4		43.07	Ogll	Mar.9,1971	
3.44212	Irrigation	3984	100	42.30	Ogll	Mar.9,1971	
4.31413	Stock	4013		47.56	Ogll	Mar.9,1966	
7.24241	Stock	4034		50.82	Ogll	Mar.8,1971	
10.43113	Stock	3989		43.26	Ogll	Mar.9,1971	
11.44140	Stock	3965	110	45.30	Ogll	Mar.9,1971	
12.31142	Irrigation	3965	140	48.04	Ogll	Mar.9,1971	
13.232112	Stock	3952		52.08	Ogll	Mar.9,1971	
15.14422	Stock	3982		43.91	Ogll	Mar.9,1971	
16.21344	Stock	3996		43.92	Ogll	Mar.9,1971	
19.41213	Stock	4025		49.71	Ogll	Mar.4,1971	
20.41331	Stock	4013		54.16	Ogll	Mar.4,1971	
21.11444	Open cased hole	3998	100	51.35	Ogll	Mar.10,1971	
22.441223	Stock	3971		46.89	Ogll	Mar.10,1971	
24.44442		3932		56.96	Ogll	Mar.2,1971	
28.11110	Industrial	3998		58.25	Ogll	Mar.10,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
15.35.29.43233	Stock	4000		53.22	Ogll	Mar.11,1971	
31.42411	Irrigation	4010	127	57.66	Ogll	Jan.8,1975	
33.11111	Industrial	3995		43.72	Ogll	Mar.10,1971	
33.34323	Stock	3983	60	53.10	Ogll	Mar.2,1971	
35.111112	Irrigation	3959		52.83	Ogll	Mar.3,1971	
35.11143	Domestic	3958		53.51	Ogll	Mar.4,1966	
35.112	Used well			50.12	Ogll	Feb.26,1963	Drilled well
35.344	Unused windmill			52.40	Ogll	Jan.22,1957	
35.44111	Industrial	3942	210	65.10	Ogll	Mar.10,1971	
36.11112	Irrigation	3941	120	55.54	Ogll	Mar.3,1971	
15.36. 1.11111	Irrigation	3884	110	85.88	Ogll	Feb.25,1971	
1.311	Irrigation		120	73.24	Ogll	Jan.7,1975	
1.41111	Irrigation	3874		80.10	Ogll	Aug.4,1971	
2.31424	Stock	3894		63.56	Ogll	Feb.25,1971	
4.32222	Irrigation	3924		72.45	Ogll	Feb.25,1971	
5.211	Irrigation		105	74.76	Ogll	Jan.7,1975	
5.311	Irrigation		100	57.96	Ogll	Jan.22,1962	
6.324243	Stock	3946		53.67	Ogll	Mar.1,1971	
7.111				66.82	Ogll	Jan.7,1970	
8.11113	Irrigation	3937	86	64.64	Ogll	Feb.26.1971	
8.111	Domestic		105	64.28	Ogll	Jan.8,1970	
8.131	Unused dug well		47	43.23	Ogll	Man.19,1949	Former recorder well; filled
8.31111	Irrigation	3933		60.46	Ogll	Feb. 6,1961	
8.31222	Irrigation	3930	110	67.62	Ogll	FEb.26,1971	
9.22112	Irrigation	3915	135	72.71	Ogll	Feb.25,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
15.36. 9.311	Domestic		120	68.67	Ogll	Jan.15,1962	
12.31111	Irrigation	3874	105	57.50	Ogll	Feb.25,1971	
14.131			90	61.47	Ogll	Jan.8,1975	
14.42222	Stock	3871		55.54	Ogll	Feb.26,1971	
16.14341		3907		67.14	Ogll	Feb.26,1971	
17.111	Irrigation		115	69.24	Ogll	Jan.8,1975	
17.31113	Irrigation	3934		70.74	Ogll	Mar.1,1971	
17.41134	Irrigation	3920		71.14	Ogll	Mar.1,1971	
18.33233	Stock	3937		55.80	Ogll	Mar.2,1971	
20.13323	Irrigation		94	77.03	Ogll	Jan.14,1976	
21.111	Irrigation		97	68.50	Ogll	Feb.15,1966	
21.22131	Irrigation	3900		65.78	Ogll	Feb.26,1971	
22.212111	Irrigation	3888		64.09	Ogll	Feb.26,1971	
24.31132	Stock	3867		56.60	Ogll	Feb.26,1971	
26.24322	Abandoned cased hole	3860		57.20	Ogll	Feb.26,1971	
27.11111	Irrigation	3890		66.86	Ogll	Feb.26,1971	
28.11313	Irrigation	3901	101	76.69	Ogll	Jan.8,1975	
29.112	Irrigation		110	72.57	Ogll	Jan.8,1975	
29.331	Irrigation		100	62.68	Ogll	Jan.22,1962	
29.410	Unused well		93	47.72	Ogll	Jan.14,1950	
29.410	Irrigation			63.17	Ogll	Feb.2,1961	
29.421	Irrigation			65.09	Ogll	Jan.27,1960	
29.441			90	42.12	Ogll	Jan.15,1944	
30.11112	Irrigation	3932		56.37	Ogll	Mar.2,1971	
30.411	Irrigation	3922	85	65.72	Ogll	Jan.8,1975	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
15.36.31.311	Irrigation			65.02	Ogll	Jan.13,1971	
31.423	Irrigation		110	66.87	Ogll	Jan.22,1962	
32.2143	Industrial	3901		42.70	Ogll	Mar.10,1971	
32.323	Irrigation			74.94	Ogll	Jan.6,1970	
33.211	Irrigation	3890	110	67.11	Ogll	Jan.19,1962	
34.111	Irrigation	3883		72.53	Ogll	Jan.8,1975	
36.13421	Open cased hole	3884		50.41	Ogll	Feb.26,1971	
36.31122	Stock	3853		59.22	Ogll	Feb.26,1971	
15.37. 2.32322	Industrial	3803		42.09	Ogll	FEb.18,1966	
4.113	Irrigation			66.98	Ogll	Jan.7,1975	
5.31131		3853		64.40	Ogll	Feb.25,1971	
6.21133	Irrigation	3863		68.88	Ogll	Feb.25,1971	
7.111	Irrigation		115	72.05	Ogll	Jan.7,1975	
8.21333	Irrigation	3841		62.16	Ogll	Feb.25,1971	
9.21112	Irrigation	3828		74.01	Ogll	Feb.26,1971	
9.43121	Irrigation	3820		61.95	Ogll	Feb.25,1971	
10.113		3800		36.59	Ogll	Jan.12,1952	
11.333342	Stock	3797		43.10	Ogll	Feb.25,1971	
12.313221	Stock	3786		37.68	Ogll	Feb.25,1971	
14.23212	Stock	3785		38.73	Ogll	Feb.25,1971	
15.13444	Stock	3800		51.33	Ogll	Feb.25,1971	
15.24443	Stock	3795		45.27	Ogll	Feb.25,1971	
16.444	Stock			30.19	Ogll	May 16,1944	
19.311	Irrigation		108	63.37	Ogll	Jan.8,1975	
20.221	Irrigation	3800	120	68.41	Ogll	Jan.8,1975	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
15.37.21.334	Windmill with pump		80	70.78	Ogll	Jan.8,1975	
22.131413	Irrigation	3797		59.34	Ogll	Feb.22,1971	
23.111224	Irrigation	3791.4	122	51.91	Ogll	Jan.8,1975	
25.14411	Stock	3761		36	Ogll	Feb.24,1971	
27.111	Has pump		126	67	Ogll	Jan. 8,1975	
27.22111	Irrigation	3783		50.39	Ogll	FEb.24,1971	
28.111	Irrigation		130	52.91	Ogll	Jan.19,1962	
28.411112	Irrigation	3798		66.78	Ogll	Feb.18,1971	
29.111	Irrigation			69.13	Ogll	Jan.8,1975	
30.33311		3839		63.60	Ogll	FEb.18,1971	
31.132	Irrigation			62.79	Ogll	Jan.8,1975	
32.21113	Irrigation	3809	109	68.47	Ogll	Feb.18,1971	
32.41141	Irrigation	3804		69.23	Ogll	Feb.18,1971	
33.21133	Irrigation	3795		65.86	Ogll	FEb.18,1971	
33.313	Irrigation		125	70.82	Ogll	Jan.8,1975	
34.133	Irrigation		116	52.09	Ogll	Jan.22,1962	
34.213331	Irrigation	3782		57.82	Ogll	Feb.24,1971	
35.212112	Stock	3766		41.98	Ogll	Feb.24,1971	
15.38. 2.23311	Irrigation	3736		64.87	Ogll	Feb.24,1971	
3.21433	Irrigation	3752.5		63.94	Ogll	Aug.10,1973	
3.22212	Abandoned irrigation	3756	150	70.68	Ogll	Feb.24,1971	
8.13223	Stock	3766		38.61	Ogll	Feb.25,1971	
9.21111	Stock	3754	60	43.50	Ogll	Feb.24,1971	
10.321	Irrigation		155	43.02	Ogll	Jan.7,1975	
11.13444	Irrigation	3740		63.54	Ogll	Feb.24,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
15.38.14.14443	Irrigation	3736		63.13	Ogll	Feb.24,1971	
15.13333		3728		35.84	Ogll	Feb.24,1971	
16.14413	Abandoned stock	3746		43.66	Ogll	Feb.24,1971	
18.43213	Stock	3752		37.44	Ogll	Feb.22,1971	
20.23333	Stock	3743		37.10	Ogll	Feb.22,1971	
21.41121	Stock	3728		36.17	Ogll	Feb.17,1966	
22.441	Used well with pump		144	42.45	Ogll	Jan.8,1975	
23.34421	Stock	3722		54.15	Ogll	Feb.22,1971	
26.31122	Irrigation	3713		48.74	Ogll	Feb.22,1971	
27.132412	Stock	3722.3		42.50	Ogll	Feb.22,1971	
28.31111		3725		31.13	Ogll	Feb.24,1971	
32.11111	Stock	3722		14.02	Ogll	Feb.24,1971	
34.31422	Stock	3717		37.65	Ogll	Feb.25,1966	
35.13133	Irrigation	3715	140	54.88	Ogll	Jan.8,1975	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
16.32. 1.14322	Open cased hole	4287	330.0	200.56	Ogll	Mar.23,1971	
2.21432	Open cased hole	4297		207.66	Ogll	Mar.23,1971	
2.41300	Unused oil test	4299		207	Ogll	Mar.15,1961	
3.34412	Used windmill	4315		224.91	Ogll	Mar.23,1971	
8.14243	Used windmill	4359	280	259.89	Ogll	Mar.30,1971	
11.24143	Open hole	4301		216.06	Ogll	Mar.23,1971	
11.34143	Used windmill	4295		227.72	Ogll	Mar.30,1971	
13.13334	Domestic	4272	308	197.72	Ogll	Aug.3,1971	
15.23320	Open cased hole	4310		226.68	Ogll	Mar.23,1971	
18.44344	Cased shot hole	4362		266.76	Ogll	Mar.30,1971	
20.311	Unused well			256.95	Ogll	Jan.10,1973	
20.33324	Windmill	4333		237.85	Ogll	Mar.30,1971	
23.12322	Abandoned oil test	4291		211.85	Ogll	Mar.31,1971	
24.412421	Used windmill	4255		190.04	Ogll	Mar.23,1971	
25.211111	Used oil test	4265	298	222.98	Ogll	Mar.31,1971	
27.441	Industrial	4300	265	200 ?	Ogll		
30.34143	Used windmill	4138	101.0	46.19	Ogll	Mar.30,1971	Uncased dug well
33.33211	Abandoned windmill	4196		122.55	Ogll	Mar.30,1971	
35.13212	Used industrial	4280		217.90	Ogll	Mar.24,1971	
35.400	Industrial/Domestic	4265	246.0	160 ?	Ogll		Yield: 60-80gpm (est.)
35.43234	Used commercial	4262		218.83	Ogll	Feb.16,1966	
36.32142	Used industrial	4261	250.0	209.75	Ogll	Feb.16,1966	
16.33.2.11124	Stock	4198	139.0	130.10	Ogll	Apr.6,1966	
5.23241	Used windmill	4229		154.49	Ogll	Mar.23,1971	
8.31133	Used windmill	4239		162.42	Ogll	Mar.23,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
16.33.12.133	Abandoned well			121.2	Ogll	Jan.14,1972	
22.22222	Used windmill	4185	148.0	135.67	Ogll	Mar.23,1971	
22.33434	Used windmill	4185		142.32	Ogll	Mar.23,1971	
25.123221	Open cased hole	4157		129.07	Ogll	Mar.24,1971	
25.22213	Used windmill	4140		117.25	Ogll	Mar.24,1971	
25.224	Stock,abandoned	4141	126.0	119.81		Nov.15,1977	
27.22222	Used oil test	4191	275.0	155.44	Ogll	Mar.23,1971	
28.31111	Used industrial	4223		191.71	Ogll	Mar.31,1971	
30.11233	Unequipped well	4242		181.00	Ogll	Mar.23,1971	
30.34433	Used oil test	4248	300.0	212.70	Ogll	Mar.31,1971	
31.23322	Abandoned oil test	4242		196.69	Ogll	Mar.31,1971	
32.14432	Used windmill	4215	220.0	172.14	Ogll	Mar.24,1971	
32.431	Stock	4215	189.2	178.08	Ogll	Nov.15,1977	
33.22122	Unused windmill	4207	181.0	172.12	Ogll	Feb.14,1966	
33.44444	Used secondary recovery	4195	287.0	179.86	Ogll	Apr.7,1971	
34.11111	Used secondary recovery	4199	290.0	165.45	Ogll	Mar.24,1971	
34.42320	Abandoned oil test	4183		162.65	Ogll	Mar.24,1971	
35.12322	Unused oil test	4175		161.28	Ogll	Mar.24,1971	
36.22322	Used secondary recovery	4149		130.31	Ogll	Jan.26,1961	
16.34. 1.22144	Open cased hole	4074		65.69	Ogll	Mar.19,1971	
1.22333	Uncased open hole	4075		65.03	Ogll	Mar.8, 1961	
1.224224	Open cased hole	4069		65.99	Ogll	Mar.19,1971	
1.24444	Uncased open hole	4068		64.78	Ogll	Feb.25,1966	
1.33214	Used windmill	4071		66.48	Ogll	Mar.2,1966	
2.12212	Used windmill	4090		72.44	Ogll	Mar.1,1966	

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
16.34. 4.23211	Used windmill	4120		87.57	Ogll	Mar.19,1971	
4.43444	Used windmill	4116		88.28	Ogll	Mar. 19, 1971	
6.24433	Used windmill	4153		104.88	Ogll	Mar.19,1971	
7.23424	Used windmill	4146		116.02	Ogll	Mar.19,1971	
7.42144	Open cased hole	4147		126.69	Ogll	Mar.19,1971	
8.41344	Used secondary recovery	4136	201.0	100.33	Ogll	Mar.22,1971	
8.43322	Used stock	4130		106.08	Ogll	Mar.22,1971	
10.21334	Used stock	4100		81.72	Ogll	Mar.19,1971	
10.223	Stock	4101	88.0	81.61		Nov.15,1977	
11.31212	Used irrigation	4091	180.0	80.46	Ogll	Mar.22,1971	
12.22122	Used windmill	4060		65.65	Ogll	Mar.2,1966	
12.32214	Used irrigation	4065		67.79	Ogll	Mar.22,1971	
12.34322	Used windmill	4064	125.0	71.30	Ogll	Mar.22,1971	
13.22234	Used windmill	4053		68.40	Ogll	Mar.2,1966	
14.21322	Used stock/domestic	4078		76.82	Ogll	Mar.22,1971	
16.443431	Used windmill	4100		86.60	Ogll	Mar.22,1971	
20.233	Unused drilled well			108.14	Ogll	Jan.7,1975	
21.43144	Used windmill	4100		94.30	Ogll	Mar.22,1971	
22.133221	Open cased hole	4096	164.0	89.10	Ogll	Mar.22,1971	
23.14433	Used windmill	4068		77.68	Ogll	Mar.22,1971	
30.23324	Used secondary recovery	4133		126.71	Ogll	Mar.22,1971	
34.11433	Used windmill	4083		91.80	Ogll	Mar.22,1971	
16.35. 1.31312	Used windmill	3981	75.0	49.74	Ogll	Feb.12,1971	
2.21111	Used irrigation	3994	100.0	54.23	Ogll	Feb.12,1971	
3.11433	Used windmill	4017		57.24	Ogll	Feb.12,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
16.35. 4.11131	Open uncased hole	4038		54.80	Ogll	Jan.19,1961	
4.14410	Used windmill	4031		55.93	Ogll	Feb.12,1971	
4.44321	Open cased hole	4021		57.33	Ogll	Feb.12,1971	
5.11214	Stock	4050		54.80	Ogll	Feb.16,1971	
6.322224	Used windmill	4056	97.0	59.11	Ogll	Feb.16,1971	
7.22213	Used windmill	4046		60.42	Ogll	Feb.12,1971	
8.22332	Used windmill	4028	100.0	54.19	Ogll	Feb.12,1971	
9.111224	Unused irrigation	4025		52.57	Ogll	Feb.12,1971	
9.132112	Unused irrigation	4021		51.22	Ogll	Feb.12,1971	
9.21323	Open cased hole	4017		53.33	Ogll	Feb.12,1971	
9.34212	Used irrigation	4012		49.71	Ogll	Feb.12,1971	
9.41323	Open cased hole	4012		50.46	Ogll	Feb.12,1971	
10.333212	Abandoned oil test	4020		50.36	Ogll	Feb.12,1971	
11.12111	Used irrigation	3988		52.76	Ogll	Feb.16,1971	
11.22111	Used irrigation	3981		54.26	Ogll	Feb.16,1971	
11.41133	Uncased open hole	3981		51.51	Ogll	Feb.16,1971	
12.42213	Used irrigation	3961		55.81	Ogll	Feb.15,1971	
13.112	Used irrigation		100.0	52.59	Ogll	Jan.8,1975	
13.13113	Used irrigation	3971		53.07	Ogll	Feb.15,1971	
13.41140	Used irrigation	3960		53.95	Ogll	Feb.15,1971	
14.13131	Used irrigation	3985		54.95	Ogll	Feb.16,1971	
14.31331	Used irrigation	3982		52.75	Ogll	Feb.16,1971	
15.32242	Used irrigation	3989	80.0	51.38	Ogll	Feb.16,1971	
15.32431	Used windmill	3990		48.26	Ogll	Feb.7,1961	
17.22231	Open cased hole	4023		54.80	Ogll	Feb.12,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
16.35.20.41323	Used windmill	4013		53.17	Ogll	Feb.12,1971	
22.43233	Used windmill	3979		45.40	Ogll	Feb.17,1971	
23.21113	Used irrigation	3970		51.72	Ogll	Feb.16,1971	
23.41111	Used irrigation	3967		45.49	Ogll	Feb.16,1971	
24.111	Used irrigation	3966		53.48	Ogll	Jan.8,1975	
24.41111	Domestic	3958		47.79	Ogll	Feb.15,1971	
24.41244		3958		48.95	Ogll	Feb.15,1971	
25.12110	Used irrigation	3949		41.28	Ogll	Feb.15,1971	
26.211	Used irrigation			43.45	Ogll	Jan.10,1973	
27.12331	Used windmill	3993		57.50	Ogll	Feb.17,1971	
35.11234	Used windmill	3979		47.07	Ogll	Feb.17,1971	
35.123221	Open cased hole	3967		42.90	Ogll	Feb.17,1971	
16.36. 1.31124	Used irrigation	3882	110.0	67.92	Ogll	Feb.17,1971	
1.42444	Used irrigation	3859		61.06	Ogll	Feb.17,1971	
1.431	Used well	3870	108.0	68.88	Ogll	Feb.17,1971	
2.11133	Used irrigation	3909	110.0	73.09	Ogll	Feb.17,1971	
2.41333	Used irrigation	3892		71.24	Ogll	Feb.18,1971	
3.142314	Used irrigation	3916		73.10	Ogll	Feb.18,1971	
4.12113	Used irrigation	3931		65.08	Ogll	Feb.16,1971	
4.221	Used irrigation			65.13	Ogll	Feb.21,1963	
4.222	Former recorder well		65.0	58.90	Ogll	Jan.10,1957	Well dry
4.32232	Municipal well	3926		65.67	Ogll	Jan.8,1975	With recorder
4.433	City supply	3920	74.0	53.89	Ogll	Jan.18,1948	
5.002	Unused	3940	97.0	60.54	Ogll	Jan.13,1971	
5.11111	Used irrigation	3947		58.05	Ogll	Feb.18,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
16.36. 5.211	Used		80.0	59.80	Ogll	Feb.9,1961	
5.213	Drilled			60.93	Ogll	Jan.17,1962	
5.231	Used irrigation	3938		63.38	Ogll	Jan.8,1975	
5.11111	Used irrigation	3947		58.05	Ogll	Feb.18,1971	
5.124	Used irrigation			63.67	Ogll	Jan.8,1974	
5.211	Used well		80.0	59.80	Ogll	Feb.9,1961	
5.213				60.93	Ogll	Jan.17,1962	
5.321				60.58	Ogll	Feb.9,1961	
5.411	Used well		77.0	63.95	Ogll	Jan.17,1962	
5.321				60.58	Ogll	Feb.9,1961	
7.11322	Open cased hole	3960		54.18	Ogll	Feb.18,1971	
8.11413	Used irrigation	3941		69.51	Ogll	Mar.3,1966	
8.111	Irrigation		75.0	53.01	Ogll	Jan.22,1949	
8.141	Abandoned observation	3943	80.0	68.94	Ogll	Nov.15,1977	
8.211	Irrigation			69.37	Ogll	Jan.8,1975	
8.31111	Used irrigation	3939		71.77	Ogll	Feb.18,1971	
8.424				51.65	Ogll	Jan.17,1948	
8.43333	Used irrigation	3931		74.61	Ogll	Mar.3,1966	
8.43343	Abandoned irrigation	3930	90.0	75.26	Ogll	Feb.19,1971	
10.123	Unused irrigation			78.91	Ogll	Jan.11,1956	
10.233	Unused well		87.0	76.66	Ogll	Jan.15,1962	
11.133	Irrigation			77.14	Ogll	Jan.15,1962	
11.241131	Used well	3884		71.30	Ogll	Jan.7,1975	
13.32224	Irrigation	3859		53.52	Ogll	Feb.18,1971	
14.22114	Irrigation	3872		59.83	Ogll	Feb.23,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
16.36.14.31111	Irrigation	3882		65.79	Ogll	Feb.19,1971	
15.11311	Irrigation	3901		68.93	Ogll	Feb.19,1971	
15.21132	Irrigation	3892	110.0	65.43	Ogll	Feb.19,1971	
15.240	Irrigation		82.0	56.33	Ogll	Jan.7,1952	
15.32111	Irrigation	3894	95.0	65.33	Ogll	Feb.19,1971	
16.23111	Irrigation	3908	193.0	68.58	Ogll	Feb.19,1971	
17.11122	Irrigation	3938	171.0	73.62	Ogll	Feb.15,1971	
17.133	Irrigation	3940		67.82	Ogll	Jan.16,1969	
18.11111	Irrigation	3756	80.0	60.73	Ogll	Feb.15,1971	
19.111	Irrigation	3954		56.94	Ogll	Jan.18,1972	
19.21111	Abandoned irrigation	3947		59.90	Ogll	Feb.16,1971	
19.21113	Irrigation	3944		64.05	Ogll	Feb.15,1971	
19.21133	Irrigation	3946		62.83	Ogll	Feb.15,1971	
21.23224	Used windmill	3900		60.87	Ogll	Mar.3,1966	
23.241	Irrigation			58.19	Ogll	Jan.7,1975	
24.14114	Irrigation	3852		55.37	Ogll	Feb.22,1971	
25.32223	Open cased hole	3841		54.20	Ogll	Feb.22,1971	
26.21233	Used windmill	3858		55.06	Ogll	Feb.23,1971	
27.133			65.0	49.33	Ogll	Jan.18,1947	
30.12244	Used windmill	3942		74.45	Ogll	Feb.17,1971	
31.131332	Used windmill	3935		60.28	Ogll	Feb.17,1971	
32.22243	Open cased hole	3905		65.67	Ogll	Feb.23,1971	
33.11331	Irrigation	3903		61.84	Ogll	Feb.23,1971	
33.34233	Irrigation	3890		57.74	Ogll	Feb.23,1971	
34.24123	Used windmill	3969		55.12	Ogll	Feb.23,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
16.36.35.24322	Used windmill	3844		53.28	Ogll	Feb.23,1971	
16.37. 1.11111	Irrigation	3792	123.0	68.36	Ogll	Feb.18,1971	
1.311	Irrigation		105.0	77.55	Ogll	Jan.8,1975	
1.41111	Irrigation	3784		64.65	Ogll	Feb.18,1971	
2.113143	Irrigation	3806.8	125.0	73.64	Ogll	Jan.8,1975	
2.311114	Irrigation	3802		71.08	Ogll	Feb.18,1971	
3.12311	Irrigation	3822		63.80	Ogll	Feb.18,1971	
3.133343	Used windmill			58.04	Ogll	Feb.23,1971	
5.12443	Open cased hole	3849	95.0	47.35	Ogll	Feb.16,1961	
5.23113	Stock	3847		49.82	Ogll	Feb.23,1971	
6.41223	Used windmill			53.76	Ogll	Feb.23,1971	
7.114	Irrigation		125.0	59.29	Ogll	Jan.8,1975	
7.33322	Irrigation	3861		61.70	Ogll	Feb.22,1971	
7.42111	Irrigation	3848		48.65	Ogll	Feb.22,1971	
8.33411	Used windmill	3837		46.13	Ogll	Feb.22,1971	
9.43433	Used windmill	3809		44.72	Ogll	Feb.22,1971	
10.21111	Irrigation	3801		67.61	Ogll	Feb.22,1971	
10.41313	Irrigation	3800		72.30	Ogll	Feb.23,1971	
11.111	Irrigation	3900	118.0	73.45	Ogll	Jan.7,1975	
11.22311	Irrigation	3788	118.0	71.00	Ogll	Feb.22,1971	
12.21314	Irrigation	3781		64.18	Ogll	Feb.22,1971	
12.22123	Used windmill	3777		58.73	Ogll	Feb.22,1971	
14.211	Irrigation		130.0	73.55	Ogll	Jan.7,1975	
19.200				30.62	Ogll	Jan.23,1949	
19.24132	Irrigation	3826		46.32	Ogll	Feb.17,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
16.37.19.32422	Used windmill	3839		42.73	Ogll	Feb.17,1971	
22.4324	Used windmill	3781	54.0	41.37	Ogll	Feb.22,1971	
23.21133	Irrigation	3778	120.0	64.17	Ogll	Feb.17,1971	
23.21244	Irrigation	3777	120.0	60.90	Ogll	Feb.17,1971	
24.23311	Irrigation	3766		76.43	Ogll	Aug.2,1971	
24.431	Irrigation		100.0	44.91	Ogll	Jan.8,1953	
25.111	Irrigation		115.0	62.63	Ogll	Jan.7,1975	
25.31331	Irrigation	3762	125.0	53.24	Ogll	Feb.17,1971	
27.42432	Open hole	3776		39.04	Ogll	Feb.18,1966	
28.43431	Used windmill	3785		42.51	Ogll	Feb.17,1971	
29.11424	Used windmill	3812		36.66	Ogll	Feb.17,1971	
29.22222	Used windmill	3803		31.70	Ogll	Feb.17,1971	
31.1131	Used municipal	3835		63.95	Ogll	Feb.18,1971	
31.32224	Used municipal	3820		55.89	Ogll	Feb.17,1971	
33.1222	Unused well		95.0	30.51	Ogll	Jan.8,1952	
35.41333	Used windmill	3762.1		51.79	Ogll	Feb.17,1971	
36.4341	Used windmill	3741		55.44	Ogll	Feb.17,1971	
16.38. 1.13133	Used windmill	3716		40.74	Ogll	Feb.16,1971	
3.23343	Irrigation	3728		39.62	Ogll	Feb.16,1971	
3.333	Test hole		107.0	41.38	Ogll	Jan.8,1975	former recorder
4.13233	Used windmill	3750		41.30	Ogll	Feb.16,1971	
5.11112	Irrigation	3764		41.23	Ogll	Feb.17,1966	
6.41434	Used windmill	3764		48.35	Ogll	Feb.16,1971	
7.13134	Irrigation	3770		53.55	Ogll	Feb.16,1971	
7.14111	Irrigation	3781		63.39	Ogll	FEb.16,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
16.38. 9.321134	Used windmill	3737		42.97	Ogll	Feb.16,1971	
10.221313	Irrigation	3721		52.44	Ogll	Aug.2,1971	
12.11233	Irrigation	3710		47.38	Ogll	Feb.12,1971	
12.43111	Irrigation	3704		51.04	Ogll	Feb.12,1971	
14.44441	Used windmill	3699		52.00	Ogll	Feb.12,1971	
15.111112	Irrigation	3723		50.35	Ogll	Aug.2,1971	
15.43133	Irrigation	3716		52.60	Ogll	Feb.11,1971	
19.11114	Irrigation	3759		54.05	Ogll	Feb.17,1971	
19.11244	Irrigation	3757	130.0	53.44	Ogll	Feb.17,1971	
21.13111	Irrigation	3730		52.94	Ogll	Feb.17,1971	
21.313113	Irrigation	3729		59.57	Ogll	Aug.2,1971	
22.24431	Used windmill	3708		56.09	Ogll	Feb.25,1966	
22.31111	Irrigation	3716		64.79	Ogll	Feb.11,1971	
23.11134	Abandoned irrigation	3709		54.47	Ogll	Feb.11,1971	
24.433330	Irrigation	3689		58.62	Ogll	Feb.11,1971	
25.144			85.0	47.04	Ogll	Feb.26,1963	
26.111	Irrigation		140.0	53.75	Ogll	Jan.23,1962	
26.113	Irrigation			68.19	Ogll	Jan.13,1971	
26.21113	Irrigation	3696		57.38	Ogll	Feb.11,1971	
27.111	Irrigation		130.0	77.09	Ogll	Jan.7,1975	
27.31313	Unequipped irrigation	3712		93.38	Ogll	Feb.12,1971	
27.43434	Irrigation	3705		73.90	Ogll	Feb.11,1971	
28.31333	Irrigation	3724		79.25	Ogll	Feb.17,1971	
28.444	Windmill		52.0	31.67	Ogll	Sep.26,1946	
29.1114	Irrigation	3742		52.40	Ogll	Feb.17,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
16.38.30.211	Irrigation		118.0	57.48	Ogll	Jan.7,1975	
30.31111	Irrigation	3755		56.29	Ogll	Feb.17,1971	
30.41334	Irrigation	3749		58.74	Ogll	Feb.17,1971	
31.24434	Used windmill	3737		66.44	Ogll	Feb.18,1966	
32.42113	Irrigation	3722		81.72	Ogll	Feb.17,1971	
34.131	Irrigation		140.0	61.22	Ogll	Mar.18,1958	
34.131	Irrigation			97.42	Ogll	Jan.7,1975	
35.110	Used well			41.33	Ogll	Jan.6,1952	
35.124114	Irrigation	3693		62.92	Ogll	Feb.11,1971	
35.21112	Irrigation	3694		62.34	Ogll	Feb.11,1971	
35.33122	Irrigation	3702		71.68	Ogll	Feb.11,1971	
16.39. 5.31132	Abandoned irrigation	3702		62.98	Ogll	Feb.12,1971	
6.31111	Irrigation	3704		45.09	Ogll	Feb.12,1971	
7.33132	Irrigation	3695		54.85	Ogll	Feb.12,1971	
17.311142	Irrigation	3685		69.03	Ogll	Feb.11,1971	
17.34422	Irrigation	3680		75.90	Ogll	Feb.11,1971	
19.133121	Irrigation	3684		57.76	Ogll	Feb.11,1971	
20.13311	Irrigation	3673.02	132.0	54.74	Ogll	Feb.26,1963	
20.31111	Irrigation	3673		60.50	Ogll	Feb.26,1963	
20.41143	Open cased hole			68.84	Ogll	Feb.11,1971	
29.23332	Irrigation	3678.7	172.0	83.54	Ogll	Jan.7,1975	
29.343344	Irrigation	3681		77.22	Ogll	Feb.11,1971	
30.11413	Irrigation	3682		60.30	Ogll	Feb.11,1971	
30.43424	Abandoned stock	3661		51.89	Ogll	Feb.15,1961	
17.32. 1.32343	Irrigation	4225		165.85	Ogll	Mar.15,1966	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
17.32. 1.32343	Used oil test	4225		173.19	Ogll	Mar.10,1966	
2.433	Industrial/domestic	4240	200	60	Ogll	1948	Yield:50gpm(est)
2.434	Industrial/domestic	4240	192	60	Ogll	Jun.1,1950	
2.434343	Industrial	4195		148.33	Ogll	Mar.14,1961	
2.443	Industrial/domestic		190		Ogll		Yield:50gpm(est)
3.13443	Unused industrial	4239		168.14	Ogll	Feb.10,1966	
3.140	Industrial				Ogll		
3.320	None	4250		175.6	Ogll	Jul.21,1954	
3.32114	Industrial	4232		162.21	Ogll	Feb.8,1971	Oil test
3.43333	Industrial	4200		136.89	Ogll	Feb.8,1971	
4.442	None	4180		82.9	Qtal	Jun.3,1954	
11.231	Industrial/domestic	4180	139		Ogll		
11.233	Industrial/domestic	4200	140	70	Ogll ?	Sep.20,1947	Yield:9gpm(est)
11.34332	Open hole	4096		47.11	Ogll	Feb.8,1971	
11.411	Industrial/domestic	4170	200	70	Ogll ?	Jun.15,1946	Yield:90gpm(est)
11.411	Industrial/domestic		130	70	Ogll ?	Sep.23,1947	Yield:50gpm(est)
12.44414	Abandoned stock	4168		120.13	Ogll	Feb.11,1966	
14.12121	Domestic	4092		31.53	Ogll	Feb.8,1971	
17.33. 3.14134	Unused	4184		146.98	Ogll	Feb.14,1966	
4.241441	Oil test	4183		159.58	Ogll	Feb.18,1971	
4.44322	Unused	4179		149.72	Ogll	Feb.6,1961	
4.4444	Shot hole	4173	152.0	145.20	Ogll	Mar.14,1961	
5.22221	Industrial	4198		162.20	Ogll	Mar.31,1971	
6.11111	Used floodwell	4198	310.0	209.87	Ogll	Mar.31,1971	
6.42411	Unused	4223		181.94	Ogll	Feb.18,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
17.33. 7.141221	Open hole	4234		192.54	Ogll	Feb.15,1971	
7.323221	Open hole	4229		188.61	Ogll	Feb.15,1971	
9.342113	Open cased hole	4191		171.39	Ogll	Feb.15,1971	
12.24333	Used windmill	4118		122.79	Ogll	Feb.16,1971	
13.341	Observation	4124	252	165.46	Ogll	Jan.8,1975	
13.434	Industrial	4123		175.54	Ogll	Jan.17,1961	
16.24242	Stock	4176		165.43	Ogll	Feb.11,1966	
18.22133	Domestic	4216		182.83	Ogll	Feb.15,1971	
18.322	Industrial/domestic	4230	220		Ogll		
18.3223	Industrial	4224		196.59	Ogll	Mar.13,1961	
20.221443	Open hole	4165	160.0	147.39	Ogll	Mar.14,1961	
20.24143	Used windmill	4173		163.45	Ogll	Feb.15,1971	
22.43233	Used windmill	4140		155.17	Ogll	Feb.16,1971	
23.3132	Open cased hole	4143		157.62	Ogll	Feb.16,1971	
25.244	Industrial		230.0	140.07	Ogll	Jan.3,1967	
26.422	Abandoned industrial	4125	200.3	162.35	Ogll	Sep.7,1956	
28.110	None	4185	241	198.0	Ogll	May 11,1954	
29.222221	Industrial	4188		201.35	Ogll	Mar.14,1961	
29.34411	Used oil test	4044		61.43	Ogll	Feb.16,1971	
30.12432	Domestic	4053		69.14	Ogll	Feb.16,1971	
33.4224	Open cased hole	4082		130.96	Ogll	Feb.16,1971	
17.34. 2.1310	Used windmill	4057		85.94	Ogll	Feb.16,1971	
2.343442	Abandoned	4048		86.15	Ogll	Feb.16,1971	
4.4320	Used windmill	4079		99.79	Ogll	Feb.16,1971	
7.213242	Open cased hole	4123		130.33	Ogll	Feb.16,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
17.34. 8.141443	Open cased hole	4105		118.89	Ogll	Feb.16,1971	
10.22322	Open cased hole	4057		91.99	Ogll	Feb.16,1971	
11.2440	Open cased hole	4037		89.11	Ogll	Feb.16,1971	
13.43323	Open cased hole	4014		79.70	Ogll	Feb.17,1971	
14.11111	Open cased hole	4035		89.81	Ogll	Feb.16,1971	
14.14444	Used secondary recovery	4038	218.0	93.16	Ogll	Feb.16,1971	
18.44322	Open cased hole	4101		137.74	Ogll	Feb.16,1971	
21.13444	Industrial	4073	246.0	125.80	Ogll	Jan.17,1961	
22.41244	Open cased hole	4039		125.89	Ogll	Feb.17,1971	
23.43320	Unequipped well	4028		107.02	Ogll	Aug.3,1971	
24.21132	Open cased hole	4016		85.78	Ogll	Feb.17,1971	
25.21311	Domestic	4000		80.19	Ogll	Feb.17,1971	
28.22333	Abandoned industrial	4058		136.16	Ogll	Feb.17,1971	
28.223	Abandoned industrial	4058	200.0	145.67	Ogll	Jan.8,1975	
28.33321	Open hole	4066		118.36	Ogll	Mar.24,1961	
30.14442	Industrial	4089		155.22	Ogll	Feb.16,1971	
30.344334	Industrial	4089		143.83	Ogll	Mar.16,1966	
31.14244	Stock	4075		130.76	Ogll	Feb.16,1971	
32.12324	Abandoned domestic	4075		134.71	Ogll	Feb.16,1971	
32.222224	Used windmill	4056		118.87	Ogll	Feb.16,1971	
32.41341	Abandoned stock	4073		132.86	Ogll	Feb.16,1971	
33.41321	Open cased hole	4060		127.25	Ogll	FEb.16,1971	
35.130	State observation		132.0	114.55	Ogll	Jan.8,1975	
35.33313	Used windmill	4010		88.44	Ogll	Mar.6,1961	
35.333331	Used windmill	4021		88.30	Ogll	Mar.6,1961	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
17.34.36.22411	Open cased hole	3993		81.58	Ogll	Feb.17,1971	
36.31144	Open cased hole	3996		85.35	Ogll	Feb.17,1971	
17.35. 1.44413	Used windmill	3926		51.69	Ogll	Feb.11,1971	
4.31224	Used windmill	3986		58.45	Ogll	Feb.11,1971	
7.34213	Used windmill	4007		71.34	Ogll	Feb.12,1971	
11.111333	Used windmill	3946		40.24	Ogll	Feb.11,1971	
13.32213	Used windmill	3916		42.49	Ogll	Feb.11,1971	
14.13243	Used windmill	3935		45.01	Ogll	Feb.11,1971	
19.142313	Open cased hole	3988		64.58	Ogll	Feb.12,1971	
19.44311	Open cased hole	3981		66.68	Ogll	Feb.12,1971	
20.13413	Open cased hole	3981		61.81	Ogll	Mar.16,1966	
22.312443	Open cased hole	3944		46.14	Ogll	Feb.12,1971	
23.33424	Open cased hole	3921		38.74	Ogll	Feb.12,1971	
24.22322	Open cased hole	3905		40.50	Ogll	Feb.11,1971	
25.13141	Open cased hole	3911		44.11	Ogll	Feb.12,1971	
28.22332	Open cased hole	3946	120.0	47.39	Ogll	Feb.12,1971	
31.43411	Open cased hole	3968		67.38	Ogll	Feb.12,1971	
33.34321	Used oil test	3945		59.73	Ogll	Feb.12,1971	
34.12311	Open cased hole	3934		49.64	Ogll	Feb.12,1971	
35.213	State observation		129.3	41.26	Ogll	Jan.5,1970	
35.23233	Cased hole	3902		36.58	Ogll	Mar.17,1966	
36.3110	Open cased hole	3895		42.83	Ogll	Feb.12,1971	
17.36. 3.130	Stock	3871	87.0	48.63	Ogll	Nov.11,1977	
3.333	Destroyed		85.0	43.00	Ogll	Feb.20,1963	
3.42122	Irrigation	3862	135.0	57.92	Ogll	Feb.10,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
17.36. 4.14144	Open cased hole	3891		51.92	Ogll	Feb.3,1961	
5.311113	Irrigation	3905		60.70	Ogll	Feb.10,1971	
5.32411	Open cased hole	3901		59.12	Ogll	Feb.10,1971	
7.12100	Open cased hole	3917		48.86	Ogll	Feb.10,1971	
7.41421	Open cased hole	3897		41.93	Ogll	Feb.10,1971	
8.41110	Open cased hole	3892		50.35	Ogll	Feb.10,1971	
12.12143	Irrigation			41.98	Ogll	Feb.10,1971	
12.22322	Open hole	3811		44.94	Ogll	Feb.10,1971	
12.32334	Used windmill	3818		40.38	Ogll	Feb.11,1971	
14.41142	Used windmill	3829		34.53	Ogll	Feb.11,1971	
15.14222	Used windmill	3847		35.75	Ogll	Feb.11,1971	
17.34321	Open hole	3879		41.43	Ogll	Feb.11,1971	
17.44124	Irrigation	3875		42.22	Ogll	Feb.11,1971	
18.44433	Irrigation	3882		36.66	Ogll	Feb.11,1971	
19.21114	Used windmill	3888		36.80	Ogll	Feb.11,1971	
21.41144	Windmill	3863		45.13	Ogll	Feb.11,1971	
23.13244	Irrigation	3828		31.70	Ogll	Feb.11,1971	
25.12322	Open cased hole	3807		31.49	Ogll	Feb.10,1971	
27.13134	Irrigation		100.0	34.62	Ogll	Jan.8,1975	
29.21111	Irrigation	3868		44.20	Ogll	Feb.10,1971	
30.11322	Oil test	3892		39.40	Ogll	Mar.3,1961	
33.33144	Irrigation	3850		51.13	Ogll	Feb.10,1971	
34.33124	Abandoned irrigation	3837		44.16	Ogll	Feb.10,1971	
35.13124	Irrigation	3828		41.62	Ogll	Feb.10,1971	
17.37. 1.41121	Irrigation	3742		56.34	Ogll	Feb.18,1966	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
17.37. 3.31324	Irrigation	3773		52.00	Ogll	Feb.9,1971	
5.41222	Irrigation	3791	130.0	44.52	Ogll	Feb.9,1971	
6.411331	Irrigation	3806	120.0	52.04	Ogll	Feb.9,1971	
7.21113	Irrigation	3802	132.0	49.12	Ogll	Feb.17,1971	
10.21111	Irrigation			55.95	Ogll	Jan.7,1975	
12.11321	Irrigation		135.0	71.80	Ogll	Jan.7,1975	
13.11223	Irrigation	3737	120.0	67.30	Ogll	Feb.9,1971	
13.31222				44.88	Ogll	Jan.23,1962	
14.11122	Irrigation	3744		56.45	Ogll	Feb.9,1971	
18.41424	Used windmill	3790		40.82	Ogll	Feb.10,1971	
21.22342	Used windmill	3750		46.46	Ogll	Feb.10,1971	
21.33412	Abandoned stock	3758		42.62	Ogll	Feb.10,1971	
23.11311	Irrigation	3736	138.0	52.93	Ogll	Feb.9,1971	
23.21433	Irrigation	3724	125.0	61.35	Ogll	Dec.15,1969	
24.41113	Irrigation	3713		64.73	Ogll	Feb.9,1971	
25.4111	Irrigation	3705		62.07	Ogll	Feb.9,1971	
26.33314	Dug well		70.0	47.64	Ogll	Jan.5,1967	
26.41133	Irrigation	3712	147.0	51.81	Ogll	Feb.9,1971	
27.41212	Irrigation	3724		42.56	Ogll	Feb.16,1961	
30.42412	Used windmill	3770		35.76	Ogll	Feb.10,1971	
32.33133	Used windmill	3768		37.31	Ogll	Feb.10,1971	
32.424443	Used windmill	3747		49.20	Ogll	Feb.10,1971	
34.11111	Irrigation		105.0	61.20	Ogll	Jan.8,1975	
34.41111	Irrigation	3721		52.78	Ogll	Feb.9,1971	
34.411	Irrigation			39.39	Ogll	Jan.5,1955	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
17.37.34.441	Used well		117.0	29.49	Ogll	Jan.5,1952	
35.43330	Irrigation	3711		45.37	Ogll	Feb.4,1971	
36.113312	Irrigation	3705		48.58	Ogll	Feb.4,1971	
36.141	Used well		120.0	27.25	Ogll	Feb.1,1946	
17.38. 2.31111	Irrigation			72.32	Ogll	Jan.7,1975	
3.11143	Irrigation	3705		77.17	Ogll	Feb.3,1971	
4.11113	Irrigation	3710		80.16	Ogll	Feb.22,1966	
4.21111	Irrigation	3712	135.0	76.91	Ogll	Feb.22,1966	
4.31311	Irrigation	3708		65.54	Ogll	Feb.3,1971	
4.442331	Irrigation	3704	178.0	68.91	Ogll	Feb.3,1971	
4.44424	Plugged irrigation	3704	120.0	54.40	Ogll	Feb.1,1961	
5.13311	Irrigation	3726		68.27	Ogll	Feb.3,1971	
7.11113	Irrigation		135.0	38.43	Ogll	May 22,1951	
7.111	Irrigation	3740	125.0	64.17	Ogll	Jan.7,1975	
7.31133	Irrigation	3724		57.69	Ogll	Feb.3,1971	
8.21113	Irrigation		145.0	67.99	Ogll	Jan.7,1975	
8.331	Irrigation		135.0	47.24	Ogll	Jan.23,1962	
9.33111	Irrigation	3701		52.73	Ogll	Feb.3,1971	
10.33223	Abandoned	3713	106.0	72.47	Ogll	Feb.1,1961	
11.11313	Irrigation	3704		70.36	Ogll	Feb.3,1971	
12.44444	Open cased hole	3676		58.16	Ogll	Feb.1,1961	
14.41433	Irrigation	3682		65.40	Ogll	Feb.3,1971	
15.22433	Irrigation	3696		64.31	Ogll	Feb.3,1971	
15.31311	Abandoned irrigation	3687		49.36	Ogll	Feb.3,1971	
20.22224	Abandoned stock	3690	65.0	45.14	Ogll	Feb.3,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
17.38.21.41211	Irrigation	3682	112.0	48.23	Ogll	Feb.3,1971	
23.111141	Irrigation	3673.9		48.0	Ogll	Aug.3,1971	
27.133	Irrigation		125.0	33.92	Ogll	Jan.23,1962	
30.113	Used well			37.10	Ogll	Jan.11,1957	
30.12111	Irrigation	3704		56.97	Ogll	Feb.3,1971	
30.312			56.0	41.12	Ogll	May 22,1953	
31.21111	Irrigation	3691		56.97	Ogll	Feb.3,1971	
31.31111	Irrigation		110.0	50.32	Ogll	Jan.7,1975	
31.41422	Irrigation	3684		59.61	Ogll	Aug.3,1971	
32.232432	Irrigation	3689		66.90	Ogll	Feb.3,1971	
34.113	Irrigation	3660	126.0	48.18	Ogll	Jan.7,1975	
35.14413	Irrigation	3659		56.93	Ogll	Feb.4,1971	
36.212	Irrigation			68.37	Ogll	Jan.23,1962	
17.39.18.13314	Used windmill	3674		78.07	Ogll	Feb.3,1971	
18.33242	Irrigation	3663		64.04	Ogll	Feb.3,1971	
19.31332	Abandoned stock	3648		50.04	Ogll	Feb.22,1966	
30.23444	Abandoned irrigation	3657	165.0	66.20	Ogll	Feb.22,1966	
31.42121	Irrigation	3640		64.39	Ogll	Feb.4,1971	
32.111	Irrigation			87.78	Ogll	Jan.6,1970	
32.41322	Irrigation	3642		80.17	Ogll	Feb.4,1971	
18.32.16.22433	Uncased open hole	3793	100	84.18	Ogll	Mar.18,1968	
20.13311	Domestic	3470	270.0	179.35	Trcl	Feb.23,1971	
22.32322	Oil test	3763		434.41	Trcl	Apr.6,1971	
34.22241	Windmill	3721		117.46	Trcl	Apr.6,1971	
18.33. 3.34133	Open cased hole	4015		60.10	Qtal	Apr.5,1966	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
18.33. 3.343	Domestic/stock	4012	64	59.18	Qtal	Feb.19,1971	
10.23244	Domestic	4005	75	41.64	Qtal	Feb.9,1971	
10.44211	Stock	3985	60	41.64	Ogll	Feb.9,1971	
11.4433	Irrigation	3986		42.40	Qtal	Feb.9,1971	
12.44211	Windmill	4089		137.48	Qtal	Feb.5,1971	
13.13144	Open cased hole	3968		31.85	Qtal	Feb.8,1971	
13.44244	Open cased hole	3973		46.66	Qtal	Feb.8,1971	
14.111	None	3965	40.0	35.8	Qtal	Jun.3,1954	
14.1114	Windmill	3976		35.20	Qtal	Feb.9,1971	
14.11140	Stock	3976	46.0	35.84	Qtal	Mar.6,1968	
19.142	Stock	3820		140+	Trsc ?	Dec.9,1958	
23.23140	Open cased hole	3881	58	45.65	Qtal	Feb.9,1971	
34.133	None	3760	200.0	177.4	Trsc	Dec.9,1958	
18.34. 1.12222	Industrial	3991		79.70	Ogll	Mar.6,1961	
2.223333	Industrial	4009		98.03	Ogll	Feb.4,1971	
4.11124	Open cased hole	4064		126.78	Ogll	Feb.4,1971	
8.23213	Windmill	4042		104.20	Ogll	Feb.4,1971	
11.43212	Industrial	4000	211.0	110.78	Ogll	Feb.23,1971	
12.42333	Industrial	3982	204.0	111.01	Ogll	Feb.19,1971	
15.24130	Windmill	4015		103.28	Ogll	Feb.5,1971	
18.413212	Open cased hole	4076		143.30	Ogll	Feb.5,1971	
20.323323	Windmill	4015		98.92	Ogll	Feb.5,1971	
20.323333	Domestic/stock	4020	111.0	100.19	Ogll	Mar.6,1968	
22.343				109.92	Ogll	Jan.8,1975	
25.13111	Uncased shot hole	3977		94.88	Qtal	Mar.9,1961	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
18.34.25.133232	Uncased shot hole	3947		97.16	Qtal	Mar.9,1966	
27.33311	Windmill	3994		110.42	Ogll	Feb.5,1971	
29.11213	Open cased hole	3972		60.40	Qtal	Feb.5,1971	
30.211224	Open cased hole	3955		44.03	Ogll	Feb.5,1971	
18.35. 1.12121	Windmill	3887		41.39	Ogll	FEb.1,1971	
2.14230	Irrigation	3896		39.78	Ogll	Feb.1,1971	
3.41221	Windmill	3913		47.34	Ogll	Feb.1,1974	
4.131343	Open cased hole	3946		62.94	Ogll	Feb.1,1974	
4.24322	Open cased hole	3880	125.0	39.42	Ogll	Feb.2,1971	
4.43142	Cased shot hole	3937		60.19	Ogll	Feb.1,1971	
4.43312	Open cased hole	3935	125.0	60.19	Ogll	Feb.1,1971	
5.41123	Open cased hole	3955	112.0	66.78	Ogll	Feb.2,1971	
5.4131	Industrial	3955	112	64.43		Mar.31,1961	Oil test
6.23321	Stock	3974		81.57	Ogll	Aug.2,1973	
6.42113	Windmill	3970		79.18	Ogll	Aug.2,1973	
7.31313	Secondary recovery	3972	212.0	97.91	Ogll	Feb.19,1971	
8.31444	Open cased hole	3952		79.98	Ogll	Feb.2,1971	
10.223113	Open cased hole	3907		48.16	Ogll	Feb.1,1971	
11.33322	Windmill	3890		36.80	Ogll	Feb.1,1971	
13.144442	Windmill	3870		38.03	Ogll	Feb.2,1971	
15.2330	Shot hole	3901		51.73	Ogll	Mar.30,1961	
15.43312	Open cased hole	3900	194.0	52.90	Ogll	Feb.2,1971	
16.12214	Stock	3925	83.0	60.05	Ogll	Feb.2,1971	
17.144	Industrial		190.0	74.42	Ogll	Jan.8,1975	
20.214	Industrial		170.0	73.36	Ogll	Jan.8,1975	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
18.35.21.44144	Open cased hole	3912	187.0	64.38	Ogll	Jan20,1971	
22.34414	Open cased hole	3897		57.87	Ogll	Jan.20,1971	
22.4413	Open cased hole	3885		50.62	Ogll	Feb.17,1961	
34.342	Observation	3846	51.2	24.46	Qtal ?	Nov.15,1977	Abandoned
35.2314	Open cased hole	3863		56.32	Ogll	Jan.20,1971	
18.36. 1.13144	Windmill	3791		29.30	Ogll	Jan.19,1971	
3.2410	Windmill	3828		46.16	Ogll	Feb.8,1971	
5.41111	Industrial	3858		54.27	Ogll	Jan.19,1971	
6.32222	Industrial	3871		49.67	Ogll	Jan.19,1971	
7.32222	Industrial	3871		53.50	Ogll	Jan.19,1971	
8.14444	Industrial	3852		49.75	Ogll	Jan.19,1971	
9.41111	Industrial	3830		42.32	Ogll	Jan.19,1971	
10.41111	Industrial	3817		42.15	Ogll	Jan.19,1971	
11.144444	Industrial	3812		51.09	Ogll	Jan.19,1971	
12.13334	Industrial	3792		39.92	Ogll	Jan.19,1971	
12.23343	Windmill	3781		32.92	Ogll	Feb.8,1971	
13.14444	Industrial	3566		25.62	Ogll	Jan.19,1971	
14.14444	Industrial	3792		39.87	Ogll	Jan.19,1971	
15.14444	Industrial	3814		49.91	Ogll	Jan.18,1971	
16.41111	Industrial	3825		46.28	Ogll	Jan.19,1971	
17.32222	Industrial	3838		41.76	Ogll	Jan.19,1971	
18.144444	Industrial	3860		49.49	Ogll	Jan.19,1971	
19.32220	Industrial	3854		50.41	Ogll	Jan.20,1971	
20.41111	Industrial	3835		46.18	Ogll	Jan.18,1971	
21.41111	Industrial	3820		46.30	Ogll	Jan.19,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
18.36.22.14444	Industrial	3803		47.76	Ogll	Jan.18,1971	
22.43321	Stock	3798		40.50	Ogll	Jan.18,1971	
23.11144	Industrial	3788		36.80	Ogll	Feb.4,1971	
23.32222	Industrial	3778		40.41	Ogll	Feb.4,1971	
24.23333	Industrial	3760		31.68	Ogll	Feb.3,1971	
24.31322	Windmill	3766		33.88	Ogll	Feb.3,1971	
25.23433	Open cased hole	3754	97.0	32.07	Ogll	Feb.3,1971	
25.3344	Uncased shot hole	3763		39.34	Ogll	Mar.8,1961	
26.23333	Industrial			44.53	Ogll	Feb.3,1971	
27.111	State well		54.0	44.95	Ogll	Jan.8,1975	
27.23333	Industrial	3790		41.59	Ogll	Feb.3,1971	
28.41111	Industrial	3816		40.74	Ogll	Jan.18,1971	
29.32222	Industrial	3830		47.55	Ogll	Jan.18,1971	
30.23333	Industrial			52.11	Ogll	Jan.19,1971	
31.13310	Windmill	3836		44.78	Ogll	Jan.18,1971	
33.31313	Shot hole	3817		52.16	Ogll	Mar.8,1961	
34.32222	Industrial	3792		55.56	Ogll	Feb.3,1971	
35.23333	Industrial	3763		50.37	Ogll	FEb.3,1971	
35.44423	Windmill	3742		35.80	Ogll	Jan.18,1971	
35.44423	Stock	3742		35.80	Ogll	Jan.20,1971	
36.42234	Industrial	3742		71.84	Ogll	Feb.3,1971	
36.44214	Industrial	3740		66.85	Ogll	Mar.11,1966	
36.44414	Industrial			75.23	Ogll	Feb.4,1971	
18.37. 1.3321	Public supply	3687		35.59	Ogll	Feb.17,1971	
4.21111	Irrigation	3738		50.05	Ogll	Feb.11,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
18.37. 4.44343	Stock	3723.5		33.64	Ogll	Feb.11,1971	
5.11313	Windmill	3762		31.56	Ogll	Mar.29,1966	
6.13111	Irrigation	3782		45.59	Ogll	Feb.18,1971	
6.42142	Windmill	3763	70.0	32.40	Ogll	Feb.11,1971	
7.13320	Open cased hole	3768	160.0	28.11	Ogll	Feb.11,1971	
10.33131	Cased shot hole	3713		28.78	Ogll	Feb.15,1971	
13.244233	Open cased hole	3678	100.0	28.99	Ogll	Feb.10,1971	
13.431313	Stock	3674	45.0	24.66	Ogll	Feb.10,1971	
14.24211	Windmill	3688		24.92	Ogll	Feb.10,1971	
14.34412	Open cased hole	3693		27.48	Ogll	Feb.15,1971	
15.22143	Windmill	3704		30.10	Ogll	Feb.10,1971	
16.1114	Stock	3735		31.0	Ogll	Feb.11,1971	
21.423223	Windmill	3705		23.98	Ogll	Feb.12,1971	
23.13133	Stock	3688		23.77	Ogll	Feb.12,1971	
23.22232	Open cased hole	3679		22.78	Ogll	Feb.10,1971	
23.44213	Open cased hole	3673	100.0	22.57	Ogll	Feb.15,1971	
24.13232	Stock	3675		23.43	Ogll	Feb.12,1971	
25.244323	Open cased hole	3657		22.46	Ogll	Mar.30,1966	
25.422231	Open cased hole	3658		33.06	Ogll	Feb.10,1971	
27.133331	Irrigation	3700		28.13	Ogll	Feb.12,1971	
27.22221	Shot hole	3688		25.13	Ogll	Mar.8,1966	
29.2433	Shot hole	3721		27.61	Ogll	Mar.8,1966	
29.31322	Irrigation	3729	166.0	38.07	Ogll	Feb.11,1971	
29.34333	Shot hole	3722		27.66	Ogll	Mar.8,1961	
32.13334	Stock	3722		41.86	Ogll	Feb.12,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
18.37.33.22322	Windmill	3697		29.14	Ogll	Feb.12,1971	
33.44322	Open cased hole	3691		32.70	Ogll	Feb.12,1971	
34.1422	Shot hole	3685		26.16	Ogll	Mar.8,1961	
34.31323	Windmill	3687		29.19	Ogll	Feb.12,1971	
35.11111	Irrigation	3677		25.47	Ogll	Feb.16,1971	
35.42432	Irrigation	3653	130.0	24.42	Ogll	Feb.17,1971	
36.24230	Open cased hole	3648		27.40	Ogll	Mar.30,1966	
18.38. 1.211343	Irrigation	3664		78.34	Ogll	Jan.11,1971	
2.142434	Irrigation	3652		58.68	Ogll	Jan.11,1971	
3.113433	Irrigation	3661		49.35	Ogll	Jan.11,1971	
3.313	Irrigation		100.0	55.42	Ogll	Jan.7,1975	
3.41311	Irrigation	3652		50.40	Ogll	Jan.12,1971	
4.133434	Windmill	3663		41.56	Ogll	Jan.12,1971	
4.232	Dug well		82.0	24.92	Ogll	Mar.23,1951	
5.12222	Windmill	3677		49.60	Ogll	Jan.12,1971	
6.21143	Irrigation	3679		42.90	Ogll	Jan.12,1971	
7.23443	Domestic	3677		53.96	Ogll	Feb.18,1971	
8.22213	Irrigation	3662		45.10	Ogll	Jan.12,1971	
9.12121	Irrigation	3659		44.99	Ogll	Jan.12,1971	
10.331113	Irrigation	3645		51.26	Ogll	Jan.12,1971	
11.13222	Irrigation	3640		49.47	Ogll	Jan.12,1971	
12.121221	Irrigation	3662		78.44	Ogll	Mar.4,1966	
12.144222	Irrigation	3648		73.73	Ogll	Jan.12,1971	
13.311344	Windmill	3623		57.25	Ogll	Jan.12,1971	
14.11133	Irrigation	3635		52.70	Ogll	Jan.12,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
18.38.15.24111	Irrigation	3637.5		58.15	Ogll	Jan.12,1971	
15.241	Recorder well		102.0	54.95	Ogll	Jan.6,1970	Abandoned
16.14242	Irrigation	3652	120.0	69.14	Ogll	Jan.14,1971	
16.44333	Public Supply	3639		67.11	Ogll	Feb.17,1971	
17.231434	Irrigation	3656		39.34	Ogll	Mar.3,1966	
17.23224	Irrigation	3656		38.51	Ogll	Mar.30,1966	
18.22232	Windmill	3671		39.98	Ogll	Jan.13,1971	
18.34444	Stock	3663		30.42	Ogll	Jan.13,1971	
19.413	Irrigation		103.0	29.96	Ogll	Jan.9,1958	
20.213343	Irrigation	3650		44.50	Ogll	Jan.13,1971	
21.131432	Irrigation	3644		51.36	Ogll	Jan.13,1971	
22.111142	Windmill	3636		49.05	Ogll	Mar.3,1966	
22.21111	Irrigation	3642		74.31	Ogll	Jan.14,1971	
22.411	Used well		118.0	47.56	Ogll	Jan.11,1957	
22.43312	Irrigation	3631		58.78	Ogll	Jan.24,1962	
23.131131	Irrigation	3636		82.42	Ogll	Jan.13,1971	
24.433434	Windmill	3635		97.65	Ogll	Mar.4,1966	
26.111333	Domestic	3628		86.86	Ogll	Mar.7,1966	
26.343	Used well		135.0	56.94	Ogll	Jan.6,1953	
27.113	City well		212.0	56.69	Ogll	Jan.5,1968	Unused,unequipped
28.23444	Domestic	3638		58.92	Ogll	Jan.13,1971	
29.421222	Domestic	3647		46.09	Ogll	Mar.3,1966	
30.21444	Industrial	3653	50.0	25.99	Ogll	Mar.14,1965	Unused,unequipped
30.23222		3652.80		35.42	Ogll	Jan.14,1969	
31.424421	Windmill	3633		29.48	Ogll	Jan.14,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
18.38.31.42442	Stock	3633		31.48	Ogll	Jan.14,1971	
35.11113	Irrigation	3623	165.0	94.38	Ogll	Jan.15,1971	
36.122443	Irrigation	3606		85.28	Ogll	Jan.14,1971	
18.39. 5.21414	Irrigation	3636		83.03	Ogll	Jan.14,1971	
5.21432	Irrigation	3636		84.64	Ogll	Jan.14,1971	
7.12221	Windmill	3647		71.66	Ogll	Mar.30,1966	
7.133332	Windmill	3650		81.01	Ogll	Mar.4,1966	
7.13334	Stock	3650		90.30	Ogll	Jan.14,1971	
8.43343	Stock windmill	3613		64.70	Ogll	Jan.15,1971	Uncased
17.123334	Windmill	3609		58.41	Ogll	Jan.15,1971	
19.11130	Windmill	3598		45.92	Ogll	Jan.15,1971	
20.343414	Irrigation	3579		46.40	Ogll	Mar.30,1966	
20.41134	Irrigation	3597		69.46	Ogll	Jan.15,1971	
31.112222	Irrigation	3598	133.0	80.50	Ogll	Jan.15,1971	
31.22211	Irrigation	3604		82.68	Ogll	Jan.15,1971	
31.43333	Windmill	3608		75.79	Ogll	Feb.14,1961	
19.32. 8.200	Stock	3650		365.3	Trsc	Dec.9,1958	
31.110		3518	4190	651.25	Cplm	Sep.,1974	
34.421424	Community	3960	575	252.49	Trsc	Jan.28,1971	
34.42322	Community	3959	575	252.27	Trsc	Jan.28,1971	
36.100	Domestic/stock	3565	485		Trsc		
19.33. 5.12322	Stock	3710		299+	Trsc	Dec.9,1958	
17.11224	Stock	3650	131.0	117.67	Trcl	Jan.28,1971	Abandoned
18.133223	Oil test	3635	800	211.86	Trsc	Jan.28,1971	
26.244	Stock/domestic	3600	101	92.9	Qtal	Jul.1,1954	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
19.34. 6.34143	Stock windmill	3777		234.71		Mar.18,1968	Abandoned
9.114	Stock	3790	33	28.6	Trsc ?	Jun.3,1954	
16.33410	Oil test	3755		243.91		Mar.19,1968	Abandoned
31.131	Stock	3625	66	58.6	Qtal	Nov.17,1965	Yield: 6gpm(est) Reported dry Jan.12,1971
19.35. 2.22222	Shot hole	3846		52.46	Ogll	Mar.2,1961	
2.24424	Stock windmill	3806		24.29	Ogll	Jan.27,1971	
2.31343	Windmill	3804		16.57	Ogll	Jan.27,1971	
5.121224	Irrigation	3886	88	47.11	Ogll	Jan.27,1971	
5.234	Domestic/stock	3860	90	35	Ogll		
5.422112	Windmill	3882		50.52	Ogll	Jan.27,1971	
10.113	Stock	3860	36	19.9	Ogll	Jul.28,1954	Yield:5gpm(est.)
12.444	Stock	3740		34.2	Qtal	Jul.28,1954	
16.33434	Stock	3759		16		Jan.27,1971	
17.122	Domestic/stock	3835	50	29.9	Qtal	Jul.28,1954	
22.334	Abandoned	3740		23.5	Qtal	Jul.28,1954	
24.121	Abandoned	3735		28.6	Qtal	Nov.16,1953	
25.424	Abandoned	3675		22.6	Qtal	Nov.16,1953	Uncased shothole
25.434	Stock	3660		22.8	Qtal	Nov.16,1953	
19.36. 4.22221	Community	3798	117	47.80	Ogll	Feb.10,1966	
4.22222	Domestic	3797		45.40	Ogll	Mar.2,1961	
5.233	Domestic/stock	3815	60	52.3	Ogll	Jul.28,1954	
5.23333	Windmill	3812		49.50	Ogll	Jan.25,1971	
6.21413	Windmill	3830		48.96	Ogll	Jan.25,1971	
10.23222	Stock	3768		58.08	Ogll	Jan.25,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
19.36.13.11144	Industrial	3728		51.03	Ogll	Feb.5,1971	
13.14211	Community	3725		69.30	Ogll	Feb.5,1971	
19.113	Used			15.89	Vlfl	Jan.7,1975	
19.313	Abandoned	3685	44.6	18.6	Qtal	Nov.16,1953	Uncased shot hol
20.111	Stock	3695		25.7	Qtal	Jul.28,1954	Yield:10gpm(est.
25.123	Abandoned	3680	43.0	16.0	Ogll	Mar.18,1954	NW well of six
26.224	Abandoned	3650	12.7	6.7	Qtal	May 7,1954	
28.4212	Irrigation	3722		52		Jan.28,1971	Abandoned
28.422	Abandoned	3720	52.0	36.6	Ogll	Mar.18,1954	
28.441	Abandoned	3680	27.0	22.7	Ogll	Mar.18,1954	
32.110		3645	32	19	Qtal	Nov.20,1929	
32.324	Abandoned	3630	30	27.2	Qtal	Jul.28,1954	
35.313334	Windmill	3617		48.15	Ogll	Jan.28,1971	
19.37. 1.22242	Irrigation	3643		50.22	Ogll	Feb.5,1971	
1.231	Irrigation		126	30.48	Ogll	Feb.10,1966	
2.22412	Industrial	3645		17.00	Ogll	Mar.2,1961	
2.24214	Industrial	3650		22.03	Ogll	Mar.2,1961	
4.110		3680	29	21	Ogll	Sep.19,1929	
4.11333	Irrigation	3692		32.34	Ogll	Jan.15,1971	
4.33322	Open cased hole	3690		34.72	Ogll	Jan.15,1971	
4.41212	Windmill	3672		14.69	Ogll	Feb.27,1961	
4.41221	Windmill	3672		23.02	Ogll	Jan.20,1971	
5.32142	Irrigation	3707		36.50	Ogll	Jan.28,1971	
6.2232	Industrial	3724		48.46	Ogll	Jan.18,1971	
7.2233	Open cased hole	3708		45.50	Ogll	Jan.18,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
19.37. 8.31111	Windmill	3698		43.58	Ogll	Jan.15,1971	
8.41133	Open cased hole	3681		37.28	Ogll	Jan.15,1971	
10.24311	Open cased hole	3651		30.0	Ogll	Jan.20,1971	
11.1331	Windmill	3640		21.88	Ogll	Jan.20,1971	
11.23111	Stock	3630		21.82	Ogll	Mar.2,1961	Well dry Jan.20, 1971
13.413414	Stock	3602.6		24	Ogll	Jan.20,1971	
13.4411	Windmill	3603		24.04	Ogll	Jan.20,1971	
15.111443	Open uncased hole	3658		38.08	Ogll	Jan.20,1971	
16.233211	Windmill	3650		26.68	Ogll	Jan.15,1971	
17.1340	Windmill	3704		62.62	Ogll	Jan.15,1971	
17.43143	Windmill	3665		32.54	Ogll	Jan.15,1971	
18.11123	Industrial	3715		62.69	Ogll	Jan.15,1971	
18.331	Abandoned	3710		51.9	Ogll	Mar.18,1954	
19.11144	Open cased hole	3703		57.78	Ogll	Jan.15,1971	
20.23122	Windmill	3677		47.85	Ogll	Apr.19,1968	
21.132		3635	67		Ogll		Yield:30gpm(est.
21.43121	Irrigation	3615	55	13.78	Ogll	Dec.12,1969	
23.334133	Windmill	3615		25.59	Ogll	Jan.20,1971	
25.422	Stock	3600		40	Ogll	Apr.6,1954	
28.42422	Windmill	3584		17.34	Ogll	Jan.20,1971	
29.33334	Windmill	3595		14.89	Ogll	Feb.11,1966	
29.344	Public supply		30±	21.5	Qtal	Mar.23,1960	
29.44421	Stock	3608		35.05	Ogll	Jan.19,1971	Abandoned
30.11134	Open cased hole	3661		26.88	Ogll	Feb.11,1966	
30.113	Domestic	3660	60		Qtal		Pumps dry in summer

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
19.37.31.42243	Stock	3573		17.71	Ogll	Feb.11,1966	
32.222	Observation	3604		20.87		Nov.19,1977	Abandoned
32.241	Unused,unequipped		28.0	12.21	Vlfl	Jan.9,1973	Dug well
32.241	Domestic			12.28	Vlfl	Jan.16,1962	
33.44441	Irrigation	3559		27.16	Ogll	Jan.20,1971	
34.111	Windmill			22.12	Ogll	Jan.8,1975	
34.11233	Irrigation	3577		22.53	Ogll	Feb.15,1966	
34.11233	Irrigation			24.66	Ogll	Jan.20,1971	
35.214112	Stock	3590		25.18	Ogll	Jan.20,1971	
19.38. 1.132232	Stock	3603		62.66	Ogll	Feb.5,1971	
1.443442	Domestic	3625	100	91.14	Ogll	Feb.5,1971	
2.122	Irrigation			64.55	Ogll	Jan.13,1958	
2.242	Used well			54.08	Ogll	Jan.12,1972	
2.41222	Irrigation	3599		33.56	Ogll	Feb.9,1972	Abandoned
2.2413131	Irrigation	3599		21.58	Ogll	Feb.29,1972	
2.424	Irrigation		119.0	35.01	Ogll	Feb.14,1962	
2.43422		3599		24.83	Ogll	Feb.9,1972	
4.21233	Open cased hole	3622		47.99	Ogll	Jan.21,1971	
4.441443	Oil test	3608		33.76	Ogll	Feb.29,1972	
6.223311	Stock	3635		37.74	Ogll	Jan.15,1971	
8.122331	Open cased hole	3604		18.55	Ogll	Jan.21,1971	
8.22224	Open cased hole	3601		19.56	Ogll	Jan.21,1971	Abandoned
9.233223	Stock	3595		25.77	Ogll	Mar.10,1966	
10.14411	Irrigation	3606		39.35		Jan.21,1971	
11.131344	Stock	3599		30.50	Ogll	Feb.15,1972	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
19.38.11.22200	Irrigation	3603		40.14	Ogll	Feb.9,1972	
11.22444	Irrigation	3608		45.60	Ogll	Feb.9,1971	
11.412134	Irrigation	3604	174	43.73	Ogll	Jan.22,1971	
14.22224	Irrigation	3625		85.81	Ogll	Jan.22,1971	
15.44412	Irrigation	3601		51.09	Ogll	Jan.21,1971	
18.21331	Stock/domestic	3596		18.55	Ogll	Jan.21,1971	
19.42424	Irrigation	3588		28.59	Ogll	Jan.21,1971	
21.21322	Open cased hole	3597	102	40.57	Ogll	Feb.2,1971	
21.32242	Windmill	3592		39.88	Ogll	Feb.2,1971	
23.221112	Abandoned	3600	66	59.42	Ogll	Feb.29,1972	
24.421131	Stock	3577		50.68	Ogll	Feb.23,1961	Abandoned
25.113242	Stock	3597		73.39	Ogll	Feb.29,1972	
25.413443	Irrigation	3577		51.79	Ogll	Jan.12,1971	
25.423412	Stock	3573		47.52	Ogll	Jan.12,1971	
25.423414	Irrigation	3573	90	49.53	Ogll	Jan.12,1971	
25.43323	Stock	3579		52.22	Ogll	Jan.12,1971	
25.44143	Irrigation	3574	90	49.95	Ogll	Jan.12,1971	
25.444434	Open cased hole	3571		45.55	Ogll	Jan.12,1971	
26.44322	Open cased hole	3591		59.69	Ogll	Jan.13,1971	
26.444431	Stock	3596		71.27	Ogll	Mar.13,1968	
27.11122	Irrigation	3591	108	42.88	Ogll	Jan.21,1971	
27.212221	Stock/domestic	3589.30		42.55	Ogll	Mar.13,1968	
27.222223	Windmill	3594		48.83	Ogll	Jan.21,1971	
27.42222	Stock/domestic	3596		63.31	Ogll	Jan.13,1971	
27.422242	Irrigation	3596		56.84	Ogll	May 10,1967	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
19.38.28.312314	Stock	3585		35.88	Ogll	Feb.2,1971	
30.121	Irrigation			29.11	Ogll	Jan.8,1975	
30.23244	Irrigation	3608	96	49.40	Ogll	Jan.21,1971	
34.11331	Irrigation	3581		39.59	Ogll	Jan.29,1971	
34.22244	Irrigation	3595		61.17	Ogll	Jan.13,1971	
34.222	Irrigation			52.60	Ogll	Jan.7,1975	
35.24111	Irrigation	3586.01	106	57.12	Ogll	Jan.12,1971	
35.31111	Irrigation	3585.26		53.33	Ogll	Jan.13,1971	Abandoned
35.31113	Domestic	3584.70		53.08	Ogll	Jan.13,1971	
35.324242	Irrigation	3591.35	97	62.82	Ogll	Jan.13,1971	
35.342242	Irrigation	3580.87	112	52.44	Ogll	Jan.13,1971	
35.34333	Irrigation	3572.82	110	43.57	Ogll	Jan.13,1971	
35.344224	Irrigation	3577.78	104	52.57	Ogll	Jan.13,1971	
36.1411	Irrigation	3579.58	104	54.03	Ogll	May 11,1967	
36.223331	Irrigation	3577.90	111	48.40	Ogll	Jan.12,1971	
36.32112	Irrigation	3574.82	100	48.09	Ogll	Jan.12,1971	
36.41111	Irrigation	3573.85	101	46.92	Ogll	Jan.12,1971	
36.41333	Irrigation	3573.75	108	47.63	Ogll	Jan.12,1971	
19.39. 5.13423	Stock	3586.20		85.12	Ogll	Jan.29,1971	Windmill
6.222142	Domestic/stock	3594.30		73.54	Ogll	Jan.29,1971	
18.42123	Stock	3577.30		62.92	Ogll	Jan.22,1971	
19.33322	Stock	3572		46.70	Ogll	Jan.22,1971	
20.32221	Stock	3572.60		64.23	Ogll	Jan.22,1971	
29.133432	Stock	3593.20		90.93	Ogll	Jan.22,1971	
30.34441	Irrigation	3573.56		53.79	Ogll	Jan.22,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
19.39.31.22324	Irrigation	3586.60		72.95	Ogll	Jan.22,1971	
31.244224	Stock	3583		70.49	Ogll	Jan.12,1971	
20.32. 1.322	Stock	3510	30	21.8	Qtal	Jul.1,1954	water not potable
18.233	Industrial	3450	400	89.2	Trsc	Mar.24,1954	
23.43312	Domestic/stock	3551	78	37.46	Trsc	Feb.2,1971	
24.33333	Windmill	3555	65	37.59	Ogll	Feb.2,1971	
25.111	Windmill	3555	67.5	35.07		Dec.16,1977	Abandoned
27.144	None	3545	25	12.3	Qtal	Jun.11,1954	
27.32322	Stock	3530		15.30	Ogll	Mar.29,1965	
27.32411	Stock	3530	75	16.55	Ogll	Feb.2,1971	Unused
30.142	None	3530		9.9	Qtal	Jun.11,1954	
36.214	Domestic	3588	60	46.6	Qtal	Jun.6,1955	W. well of 3
36.21424	Windmill	3586	65				
36.221	Windmill	3588	53.7	45.31		Dec.16,1977	Abandoned; S.C.2000
20.33. 4.43211	Used windmill	3556	58	33.19	Ogll	Mar.19,1968	
5.34321	Oil test	3550	680	278.57	Trsc	Feb.2,1971	
15.221	None	3570		336.1	Trsc	Apr.20,1955	
18.12322	Open hole	3520		249.88	Trsc	Mar.19,1968	Abandoned
20.22224	Windmill	3536		36.84	Trsc	Feb.3,1971	Used
24.122	Stock	3630	700±	300‡	Trsc		
24.124113	Stock	3633	676	413.55	Trsc	Feb.3,1971	Used
20.34. 4.44434	Stock	3635	200+	172.19	Trsc	Feb.3,1971	
17.334	Stock	3635	200	140	Trsc	Jul.1,1954	
22.222333	Stock	3656	250	214.98	Trsc	Feb.3,1971	
22.223	Stock	3655	235		Trsc		

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
20.35. 1.221	Observation	3655	35	24.5	Qtal	Nov.16,1953	
1.221	Irrigation		64.5	25.74		Sep.15,1959	Unused
5.31424	Stock	3685		61.56		Mar.8,1961	Windmill
6.331332	Open cased hole	3678		57.58	Ogll	Jan.21,1971	
7.44420	Open cased hole	3674		38.03	Ogll	Jan.26,1971	
31.113	Stock	3740	85	68.4	Ogll	Jun.25,1954	
31.12311	Used windmill	3729		64.45	Ogll	Jun.25,1954	
33.433	Stock	3700	135	94.1	Ogll	Jun.25,1954	
33.43413	Used windmill	3699		91.58	Ogll	Jan.26,1971	
35.333	Domestic/stock	3690	105	88.9	Ogll	Apr.15,1954	
35.33432	Stock	3678		83.55	Ogll	Jan.26,1971	
20.36. 1.41243	Open cased hole	3566		26.28	Ogll	Apr.11,1968	
3.33111	Stock	3620		36.50	Ogll	Jan.27,1971	Used windmill
5.132241	Used windmill	3636		30.37	Ogll	Jan.27,1971	
5.321	Stock	3635		28.3	Qtal	Nov.16,1953	
6.142223	Open cased hole	3648	90	31.54	Ogll	Jan.27,1971	
8.11111	Windmill	3632		34.54	Ogll	Jan.27,1971	Abandoned
9.13440	Used windmill	3609		28.56	Ogll	Mar.7,1961	
10.32114	Used windmill	3595		31.93	Ogll	Jan.27,1971	
11.42243	Open cased hole	3566	65	33.13	Ogll	Jan.27,1971	
12.141	Stock	3550	40±	29.5	Qtal	Mar.25,1954	
12.14122	Used windmill	3559		29.65	Ogll	Apr.11,1968	
12.222	Domestic(not drinking)	3560	56	29.0	Qtal	Mar.30,1954	
15.222	Domestic	3575	700		Trsc		
15.421	Stock	3575	50	35.7	Qtal	Mar.30,1954	Water not potable

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
20.36.24.423	Industrial	3540	50±	36.4	Qtal	Mar.25,1954	
25.312	Domestic	3550	225	117.3	Trsc	Mar.25,1954	
25.31224	Open cased hole	3546		68.03	Ogll	Apr.11,1968	
26.24344	Stock	3555		79.46	Ogll	Jan.28,1971	Used windmill
26.244	Industrial	3555	265		Trsc		Oil test
26.24443	Used windmill	3552		104.90	Ogll	Mar.2,1961	
27.22221	Abandoned windmill	3581		90.93	Ogll	Mar.2,1961	
32.112	Stock	3640	612	300	Trsc	Apr.15,1954	
32.11321	Used windmill	3648	621	224.26	Trsc	Jan.28,1971	
35.244	Industrial	3550	230		Trsc		Yield:18gpm(est.)
20.37. 4.111	Domestic(not drinking)	3560	40		Qtal		
4.11131	Stock	3559		29.17		Feb.27,1961	Windmill
4.221	Domestic	3555	45	31.4	Qtal	Apr.2,1954	
4.314	None	3550	48.0	32.8	Qtal	Apr.2,1954	
4.341	Abandoned	3550	106		Qtal		Plugged
4.444	None	3560	30±	23.5	Qtal	Apr.1,1954	
5.333	Industrial	3555	75		Qtal		
7.133	None	3555		27.1	Qtal	Mar.29,1954	
7.241	None	3550	28.5	26.4	Qtal	Mar.29,1954	
7.434	Stock	3540		25.2	Qtal	Mar.30,1954	
8.321	Industrial	3550	86	30	Qtal	Jan.23,1954	Yield:50+gpm(est.)
8.424	Domestic	3545	62	25.9	Qtal	Mar.22,1954	Yield:1gpm(est.)
9.110	Observation	3558	53	34.0	Qtal	Nov.16,1953	
9.31	Stock	3534	53.0	13.60		Nov.19,1977	Abandoned
9.331	None	3545		18.0	Qtal	Mar.22,1954	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
20.37.13.321	Stock	3545	78.0	75.7	Qtal ?	Apr.2,1954	
16.144	None	3525	36.0	13.2	Qtal	Feb.8,1953	
16.32	Observation	3527		13.08		Nov.19,1977	Abandoned
17.131	None	3540		24.8	Qtal	Apr.1,1954	
17.13231	Stock	3539		24.86		Apr.1,1954	
20.431	Stock	3510	40	24.1	Qtal	Mar.26,1954	
21.400	None	3500		43.0	Qtal	Mar.26,1954	
28.122	None	3500	60	29.3	Qtal	Mar.26,1954	
28.244	Stock	3490	42±	37.4	Qtal	Mar.26,1954	
29.111	None	3520		43.8	Qtal	Mar.25,1954	
31.144		3600	144		Qtal		
31.211		3540	125		Qtal		Dry hole
35.441	None	3480	63.0	53.4	Qtal	Mar.23,1954	
36.330	Industrial/domestic		120		Qtal		
20.38. 2.141114	Stock	3575		41		Feb.10,1976	Windmill
2.21213	Open cased hole	3580		50.93	Ogll	Jan.19,1971	
2.42311	Used windmill	3565		38.21	Ogll	Jan.19,1971	
3.22230	Used windmill	3573	86	41.58	Ogll	Jan.19,1971	
5.31320	Used windmill	3574		55.46	Ogll	Jan.25,1971	
6.143	Stock	3575		45.9		Apr.6,1954	
6.44222	Stock	3557		43.47	Ogll	Feb.27,1961	Abandoned
7.222	Irrigation		112		Ogll ?		
7.411	Irrigation		125		Ogll ?		
8.231	Public Supply	3570			Qtal		Yield:600gpm(est.)
8.232	Public Supply	3570			Qtal		East well of 2

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
20.38. 8.311	Irrigation	3570	125	64.1	Qtal	Apr.2,1954	
9.124	Stock	3570	40±	35.2	Qtal	Apr.2,1954	
11.414	None	3565	33.0	30.7	Ogll	Dec.9,1953	
12.244	None	3565		43.7	Ogll	Dec.7,1953	
16.133	Stock	3560		50	Qtal	Mar.22,1954	
16.23243	Stock	3592.21		71		Jan.28,1976	East well of 2
17.113	Industrial	3565	120		Qtal		Yield:40gpm(est.)
17.141	None	3555	105±	59.3	Qtal	Mar.22,1954	
17.142	None	3555	96.0	57.2	Qtal	Mar.22,1954	
17.333	Industrial		116		Qtal		Yield:35gpm(est.)
17.334	None	3550	168	72.8	Qtal	Mar.22,1954	
18.242	Domestic	3565	124	50	Qtal	Mar., 1952	Yield:17gpm(est.)
19.320	Domestic	3545	115	78.8	Qtal	Apr.2,1954	
31.341	None	3490	70±	66.7	Qtal	Mar.23,1954	
34.23333	Used windmill	3519		78.97	Ogll	Jan.29,1971	
20.39. 6.13131	Stock	3597.8		74	Ogll	Feb.10,1976	
6.13322	Oil test	3590		69.95	Ogll	Jan.19,1971	Abandoned
7.133	None	3565		43.6	Ogll	Dec.7,1953	
7.134442	Used windmill	3570		56.48	Ogll	Sep.9,1971	
8.132114	Used windmill	3555		50.35	Ogll	Jan.19,1971	
18.344	Unused, uncased	3540	60	45.22	Ogll	Feb.25,1963	
18.344	Used			55.40	Ogll	Jan.7,1975	
19.42211	Used windmill	3542		54.95	Ogll	Jan.20,1971	
20.12314	Used windmill	3515	40.4	36.64	Ogll	Jan.20,1971	
20.12314	Used windmill	3514	43	30.05	Ogll	Jan.20,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
21.32. 6.11131	Stock	3597	55	44.04	Ogll	Feb.3,1971	Used windmill
21.33. 2.231	Domestic	3810	1,150		Trsc		
2.24141	Domestic	3792	120	104.54	Trsc	Nov.16,1965	Abandoned
2.24233	Open hole	3791	120	104.01	Trsc	Nov.16,1965	Abandoned
2.42214	Open cased hole	3785	150	85.32	Trsc	Feb.4,1971	
2.422334	Used windmill	3768	100	79.13	Trsc	Nov.16,1965	
2.42233	Stock/domestic	3768	102	83.20	Trsc	Feb.4,1971	
2.442	Stock	3800		72.9	Ogll	Jun.28,1954	
11.11144	Stock	3820	195	144.52	Ogll	Feb.4,1971	
18.112	Stock	3900		143	Ogll	Jun.21,1954	
18.11410	Used windmill	3892	160	148.43	Ogll	Nov.16,1965	
18.12314	Used windmill	3855	123	117.50	Ogll	Feb.4,1971	
25.42322	Used windmill	3666		58.95	Ogll	Feb.4,1971	
28.12443	Used windmill	3688	224	178.62	Trsc	Feb.4,1971	
21.34. 1.24122	Used windmill	3662		68.92	Trsc	Feb.10,1971	
8.422	Stock	3705	120	105.8	Ogll	Jun.30,1954	
8.42341	Stock	3706		105.64	Ogll	Feb.10,1971	Used windmill
13.324	Domestic	3655	335	200	Trsc	1943	
21.13141	Open cased hole	3677	196	99.61	Trsc	Feb.10,1971	
23.223	Industrial/domestic	3660	220	150	Ogll	1954	
23.310		3717		1,151.96	Cplm	Sep.,1974	
24.222	Domestic	3655	125		Trsc ?		
25.13141	Open cased hole	3677	196	99.61	Trsc	Feb.10,1971	
33.233441	Used windmill	3641	92	64.45	Ogll	Feb.4,1971	
21.35. 1.12222	Domestic	3553		105.29	Ogll	Feb.10,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
21.35. 7.211	Domestic	3700	430	340	Trsc	1940 ?	
14.11111	Used windmill	3581	250	193.57	Trsc	Feb.10,1971	
24.24124	Used windmill	3610		203.48	Trsc	Feb.10,1971	
27.32143	Used windmill	3570			Ogll		
30.411	Stock	3630	58.0	35.6	Ogll	Nov.25,1953	
30.41133	Used windmill	3606		32.97	Ogll	Feb.10,1971	
21.36. 2.341331	Used windmill	3538		130.84	Trsc	Sep.2,1970	
9.222	Public supply	3605	447	350+	Trsc		Yield:6gpm(est.)
10.112	None		495		Trsc		
13.412232	Irrigation	3545	185	147.83	Ogll	Dec.15,1970	
13.41223	Domestic	3546	200	151.85	Ogll	Dec.15,1970	
14.313342	Unused oil test	3555		169.50	Ogll	Dec.15,1970	
16.421	Stock	3590	193.0	174.23		Nov.19,1977	
17.433333	Stock	3641		243.07	Ogll	Dec.15,1970	Used windmill
18.24231	Open hole	3645		231.06	Ogll	Dec.15,1970	
19.222	None	3630	230.0	216	Ogll ?	Jan.7,1954	
23.23332	Irrigation	3531	200	147.60	Ogll	Dec.10,1970	
23.23414	Irrigation	3531	200	143.04	Ogll	Dec.10,1970	
26.4243	Open cased hole	3539	216	150.70	Ogll	Dec.11,1970	
28.243	None	3585	197.0	174.5	Ogll	Jan.15,1954	
28.421213	Used windmill	3580		190.44	Ogll	Dec.11,1970	
29.144	None	3630	305		Ogll ?		
29.23134	Open hole	3645		248.39	Ogll	Sep.8,1970	
29.23444	Open hole	3637	380	240.89	Trsc	Sep.8,1970	
33.223	None	3590	215±	205.5	Ogll	Nov.12,1953	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
21.36.36.242	Stock	3505		113.3		Jan.15,1954	
21.37. 1.44224	Used windmill	3559		62.81	Ogll	Dec.16,1970	
3.31211	Open hole	3430	36	20.07	Ogll	Dec.16,1970	
3.43331	Industrial	3420	70	12.30	Ogll	Dec.16,1970	
3.43333	Industrial	3418	66	23.0	Ogll	Mar.4,1959	
4.13333	Abandoned	3433		23.88	Ogll	Dec.16,1970	
4.412442	used windmill	3437		24.34	Ogll	Dec.16,1970	
4.422442	Open hole	3466	117	63.70	Ogll	Dec.16,1970	
6.244		3495		70.3	Ogll	Mar.23,1954	
6.42443	Domestic	3504	120	94.80	Ogll	Dec.16,1970	
7.112334	Open hole	3492	91	81.85	Ogll	Dec.16,1970	
9.214331	Open hole	3468		69.41	Ogll	Dec.16,1970	
9.22430	Open cased hole	3467		62.49	Ogll	Mar.12,1968	
9.24112	Abandoned windmill	3467	90	63.01	Ogll	Dec.16,1970	
10.211	Industrial/domestic	3440	76	26	Qtal	1953	
10.241312	Used windmill	3419	35	21.6	Ogll	Dec.18,1970	
10.42222	Open hole	3421	60	27.64	Ogll	Dec.18,1970	
11.311	None	3426	77.0	39.1	Qtal	Dec.8,1953	
11.3113	Open cased hole	3418	76	25.66	Ogll	Dec.18,1970	
12.341	Industrial	3450	100	76.3	Qtal	Oct.2,1953	
12.34314	Open hole	3438	77.5	64.76	Ogll	Mar.12,1968	
13.111	Oil test	3425	185	60	Qtal	Oct.2,1953	
13.13434	Used windmill	3418	65	50.31	Ogll	Dec.16,1970	
14.123	Stock	3420		25.4	Qtal	Dec.8,1953	
14.124141	Used windmill	3403	46	27.35	Ogll	Dec.17,1970	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
21.37.14.34444	Open hole	3394	82	44.68	Ogll	Dec.17,1970	
15.33322	Open cased hole	3436		52.11	Ogll	Dec.17,1970	
17.14411	Open cased hole	3472	96	72.25	Ogll	Dec.10,1970	
17.41211	Used windmill	3469		70.25	Ogll	Dec.10,1970	
18.442143	Stock/domestic	3497		99.56	Ogll	Dec.15,1970	
20.24412	Open cased hole	3491	123	100.56	Ogll	Dec.10,1970	
21.111	None	3460		73.1	Ogll	Jan.10,1954	
21.132221	Open hole	3467	108	77.77	Ogll	Dec.2,1965	
21.132223	Abandoned windmill	3469		80.12	Ogll	Dec.10,1970	
21.24234	Used windmill	3437	71	57.58	Ogll	Dec.18,1970	
22.211214	Open hole	3411	47	43.45	Ogll	Dec.17,1970	
22.21121	Open hole	3412	57	42.93	Ogll	Dec.17,1970	
22.212221	Used windmill	3410	100	56.62	Ogll	Dec.17,1970	
22.333314	Used windmill	3421	63	49.76	Ogll	Dec.17,1970	
22.413	None	3410		75	Ogll	Oct.1,1953	
22.432124	Industrial	3403	103	69.69	Ogll	Dec.17,1970	
22.43212	Open hole	3408	94.5	70.09	Ogll	Dec.17,1970	
22.44222	Open hole	3401	88	66.06	Ogll	Dec.17,1970	
23.122224	Industrial	3396	81	50.13	Ogll	Dec.17,1970	
23.122432	Industrial	3391	72	47.96	Ogll	Dec.17,1970	
23.124441	Industrial	3390	79	50.02	Ogll	Mar.5,1966	
23.141332	Industrial	3394	90	60	Ogll	Oct.5,1972	
23.211413	Industrial	3404	89	58.27	Ogll	Dec.17,1970	
23.213	None	3410	83	45.8	Ogll ?	Oct.1,1953	
23.221212	Used windmill	3408		55.24	Ogll	Nov.30,1965	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
21.37.23.222243	Domestic/stock	3412	80	54.53	Ogll	Nov.30,1965	
23.231	None	3410	84	43.0	Ogll ?	Oct.1,1953	Yield:100gpm
23.232333	Open cased hole	3388	83	50.52	Ogll	Dec.17,1970	
23.300	Industrial/domestic	3390	100	59	Ogll	May 31,1950	
23.312443	Open cased hole	3400	130	62.99	Ogll	Dec.17,1970	
23.32222	Used oil test	3387	80	47.45	Ogll	Dec.17,1970	
23.331	Industrial/domestic	3390	96	64	Ogll	May 31,1950	
23.334113	Open cased hole	3395	100	61.69	Ogll	Dec.17,1970	
25.31314	Used windmill	3369	80	51.44	Ogll	Dec.9,1970	
26.323	Industrial/domestic	3365	101	64	Ogll	Dec.3,1948	
26.400	None	3365	160	53	Qtal	Jul.23,1951	
27.11134	Domestic	3418	80	48.93	Ogll	Dec.18,1970	
27.13122	Domestic	3422	90	53.88	Ogll	Dec.18,1970	
27.23222	Industrial	3397	101	68.07	Ogll	Dec.14,1970	
27.232444	Open cased hole	3398	102	66.49	Ogll	Dec.14,1970	
27.24143	Open cased hole	3397	120	67.06	Ogll	Dec.14,1970	
27.311323	Unequipped well	3420	93	46.13	Ogll	Dec.17,1970	
27.313121	Irrigation	3419	100	54.0	Ogll	Nov.17,1965	
28.243221	Uncased open hole	3428	112	53.31	Ogll	Dec.14,1970	
28.34333	Domestic	3459	138	94.57	Ogll	Dec.18,1970	
28.424441	Industrial	3422	103	52.05	Ogll	Dec.17,1970	
28.442221	Industrial	3422	100	52.18	Ogll	Dec.17,1970	
29.241444	Used windmill	3467	130	91.04	Ogll	Dec.17,1970	
29.33441	Open hole	3470	135	85.86	Ogll	Oct.29,1965	
29.424112	Used windmill	3468	150	95.54	Ogll	Dec.17,1970	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
21.37.29.42413	Open cased hole	3470	135	99.82	Ogll	Nov.30,1965	
29.442221	Domestic/stock	3466	150	106.93	Ogll	Oct.29,1965	
29.442221	Open cased hole	3466	300	104.55	Ogll	Oct.29,1965	
30.114414	Used windmill	3494	125	88.07	Ogll	Oct.29,1965	
30.414	Industrial	3480		101.6	Ogll	Jan.11,1954	
30.414413	Abandoned stock	3482		100.80	Ogll	Dec.17,1970	
31.13311	Used windmill	3481	115	105.59	Ogll	Dec.11,1970	
32.121	None	3460	92.0	90.7	Ogll	Jan.15,1954	
32.22224	Used community well	3466	150	102.21	Ogll	Oct.26,1965	
32.222234	Used community well	3467	148	102.83	Ogll	Oct.26,1965	
32.422413	Domestic	3463	119	102.71	Ogll	Dec.17,1970	
33.110	Abandoned public supply	3450	130		Ogll		
33.111	Industrial/domestic	3450	110 ?	103.8	Ogll	Dec.10,1953	Used for oil well flooding
33.210	None	3430	350		Trsc		
33.211	None	3430	103.0	99.6	Ogll	Nov.12,1953	
33.233	Public supply	3435	135	100	Ogll	1944	
33.321212	Abandoned domestic	3448	123	92.12	Ogll	Dec.17,1970	Yield:10gpm; old public supply well
35.22414	Used windmill	3368	70	58.20	Ogll	Dec.16,1970	
35.23111	Industrial	3373	75	58.70	Ogll	Dec.17,1970	
35.24444	Open hole	3367	74	71.94	Ogll	Dec.18,1970	
35.322112	Open cased hole	3375	290	59.84	Trsc	Nov.2,1965	
35.41212	Open cased hole	3367	300	167.99	Trsc	Nov.2,1965	
35.412223	Open cased hole	3368	70	65.63	Ogll	Dec.17,1970	
35.42222	Open cased hole	3367	80	64.23	Ogll	Dec.17,1970	
35.42244	Domestic	3364	90	66.59	Ogll	Aug.15,1966	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
21.37.35.423	Industrial/domestic	3375	110	61	Qtal	May 17,1950	
35.442243	Stock/domestic	3362	87	65.53	Ogll	Dec.18,1970	
36.133134	Industrial	3366	80	61.64	Ogll	Dec.9,1970	
36.144	Stock	3370	66±	47.8	Qtal	Oct.9,1953	
36.23333	Abandoned stock	3358	62	50.38	Ogll	Dec.9,1970	
36.31111	Domestic	3367		65.67	Ogll	Dec.9,1970	
36.311324	Open cased hole	3370	91.5	63.51	Ogll	Dec.9,1970	
36.331340	Domestic	3362	90	66.89	Ogll	Aug.15,1966	
36.34432	Used windmill	3352	58	55.48	Ogll	Dec.9,1970	
21.38. 6.133	None	3550	90+	79.4	Qtal	Dec.7,1953	
8.143221	Open cased hole	3573	1,200	659.04	Trsc	Mar.12,1968	
8.144	Dry	3565	133				Plugged
19.24224	Used windmill	3502	43.8	38.16	Ogll	Dec.9,1970	
20.434423	Abandoned	3492	65	32.63	Ogll	Dec.9,1970	
28.131432	Uncased open hole	3479	60	38.31	Ogll	Dec.9,1970	
33.11123	Used windmill	3424		40.14	Ogll	Dec.9,1970	
22.33.13.200	Stock	3510	508		Trsc		
13.23113	Windmill	3514	508	385.19	Trsc	Dec.4,1970	
22.34.11.224	Domestic	3500	120+	113.8	Ogll	Nov.12,1953	
11.22442	Stock	3532	62	22.52	Qtal	Dec.4,1970	
11.24422	Windmill	3518		9.06	Qtal	Dec.4,1970	
11.24423	Windmill	3517	75	10.50	Ogll	Dec.4,1970	
12.111	Domestic/stock	3530	62	48	Qtal		
12.114	Stock	3515	16.0	12.6	Qtal	Mar.17,1954	Infiltration tunnel
23.23131	Windmill	3452	60	26.98	Qtal	Sep.8,1971	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
22.35. 6.44114	Windmill	3598		49.03	Trcl	Dec.4,1970	
20.22442	Open cased hole	3518		77.17	Ogll	Dec.4,1970	
34.12224	Windmill	3498		76.60	Ogll	Dec.4,1970	
34.12224	Open cased hole			78.0	Ogll	Dec.4,1970	
22.36. 1.333	Domestic(not drinking)	3490	150	111.2	Ogll	Nov.12,1953	
2.442443	Windmill	3594		116.69	Ogll	Dec.3,1970	
4.22214	Water flood well	3560	11,370	702.23		Apr.3,1968	Abandoned
6.41220	Windmill	3574	174	171.44	Ogll	Dec.3,1970	
6.414	Stock	3574	200.0	169.86		Nov.18,1977	
9.341221	Stock/domestic	3552		172.27	Ogll	Dec.3,1970	
11.22344	Open cased hole	3510		125.42	Qtal	Dec.3,1970	
11.224	Domestic	3500	120+	113.8	Ogll	Nov.12,1953	
12.31112	Open cased hole	3498	212	116.11	Qtal	Dec.3,1970	
13.22222	Open cased hole	3540		6.87	Trcl	Dec.3,1970	
16.21123	Open cased hole	3550	240	178.20	Ogll	Dec.3,1970	
17.141344	Open cased hole	3562		484.06	Trsc	Dec.3,1970	
25.43433	Domestic	3425	180	118.07	Ogll	Oct.21,1965	Windmill
25.434343	Windmill	3425	165	121.52	Ogll	Dec.9,1970	
27.222421	Windmill	3499	178	167.43	Ogll	Dec.1,1970	
27.444441	Open cased hole	3517		150.42	Ogll	Dec.1,1970	
33.23232	Unused	3472	1,050	341.24	Trsc	Dec.7,1970	
35.313224	Windmill	3497		181.09	Ogll	Dec.1,1970	
22.37. 1.14142	Open cased hole	3350	70	53.91	Qtal	Mar.14,1968	
1.443213	Open cased hole	3343	55	53.53	Qtal	Dec.7,1970	
1.444413	Windmill	3344	56	55.65	Qtal	Dec.7,1970	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
22.37. 2.222314	Domestic	3357	84	64.82	Qtal	Nov.18,1965	
2.24213	Industrial	3355	85	61.89	Qtal	Dec.7,1970	
3.43224	Open cased hole	3389		39.31	Ogll	Dec.8,1970	
4.141421	Abandoned	3458	162	115.80	Qtal	Jul.25,1966	
4.22333	Irrigation	3453	155	105.61	Ogll	Dec.8,1970	
4.421	None	3430	114+	90.1	Ogll	Sep.28,1953	
4.443134	Stock/domestic	3422	125	83.15	Ogll	Nov.16,1965	
4.443234	Open cased hole	3427		84.59	Ogll	Dec.8,1970	
4.443424	Stock	3423	130	86.6	Ogll	Oct.10,1967	
5.21213	Irrigation	3456	110	100.70	Qtal	Dec.3,1970	
5.244423	Domestic	3434		86.22	Ogll	Dec.3,1970	
5.341434	Windmill	3429	70	48.04	Ogll	Mar.7,1968	
5.43233	Abandoned oil test	3428		81.85	Ogll	Dec.3,1970	
8.424412	Open cased hole	3405	80	71.95	Ogll	Dec.3,1970	
9.21224	Open cased hole	3420	90	77.06	Ogll	Dec.8,1970	
9.31331	Domestic	3405	120	81.69	Ogll	Mar.7,1968	
9.33333	Open cased hole	3401	172	74.09	Qtal	Dec.3,1970	
9.42240	Domestic/stock	3417	140	86.83	Ogll	Dec.8,1970	
10.132143	Open cased hole	3404		65.84	Ogll	Dec.8,1970	
10.213421	Abandoned stock	3393		50.98	Ogll	Dec.8,1970	
10.232331	Windmill	3403		63.66	Ogll	Dec.8,1970	
10.32144	Open cased hole	3403	85	71.67	Ogll	Dec.8,1970	
10.34124	Windmill	3410	88	80.70	Ogll	Dec.8,1970	
11.22411	Open cased hole	3347	81	56.82	Ogll	Dec.7,1970	
11.231233	Windmill	3346	78	31.13	Qtal	Dec.7,1970	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
22.37.11.322414	Domestic/stock	3345		30.46	Qtal	Dec.7,1970	
11.444443	Windmill	3337	78	59.01	Qtal	Dec.8,1970	
12.114	Open cased hole	3344	68	58.0	Qtal	Oct.26,1965	
12.2241134	Abandoned windmill	3343	59	54.63	Qtal	Oct.26,1965	
12.443	None	3335	59.0	53.9	Qtal	Oct.14,1953	
13.11324	Windmill	3334	70	59.70	Qtal	Dec.8,1970	
13.13411	Open cased hole	3331	80	58.92	Qtal	Dec.8,1970	
14.24230	Windmill	3335	76.8	68.70	Qtal	Oct.26,1965	
14.24321	Uncased hole	3333	77.5	68.00	Qtal	Oct.26,1965	
14.44242	Open cased hole	3325		55.77	Qtal	Dec.7,1970	
15.333334	Abandoned irrigation	3380	155	86.09	Ogll	Dec.8,1970	
16.413234	Open cased hole	3390		84.63	Ogll	Dec.8,1970	
17.41342	Open cased hole	3386		71.60	Ogll	Dec.8,1970	
17.43440	Windmill	3374		65.39	Ogll	Dec.8,1970	
19.14110	Open cased hole	3431	200	108.94	Ogll	Dec.1,1970	
21.222313	Open cased hole	3373		79.54	Ogll	Dec.2,1970	
21.42144	Open cased hole	3353		66.14	Ogll	Dec.2,1970	
22.333234	Incustrial	3344	137	66.81	Ogll	Dec.2,1970	
23.42323	Windmill	3318		58.79	Qtal	Dec.19,1965	
23.423233	Uncased windmill	3318		55.44	Qtal	Dec.3,1970	
23.423242	Open cased hole	3318		53.86	Qtal	Mar.6,1968	
23.423414	Domestic	3317		54.20	Qtal	Dec.3,1970	
24.13322	Open cased hole	3323		69.55	Qtal	Dec.3,1970	
24.133334	Community well	3326	80	66.75	Qtal	Dec.3,1970	
24.32223	Windmill	3317	65	55.34	Qtal	Dec.3,1970	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
22.37.24.34333	Open cased hole	3318	65	58.35	Qtal	Dec.2,1970	
25.12233	Community well	3308	83	50.45	Qtal	Jan.13,1971	
25.123343	Community well	3316	74.1	55.43	Qtal	Dec.3,1970	
25.12414	Community well	3313	79.4	58.61	Qtal	Jan.13,1971	
25.141134	Open cased hole	3304	74	47.27	Qtal	Jan.13,1971	
25.331112	Uncased hole	3303	75	49.26	Qtal	Dec.2,1970	
26.244441	Open cased hole	3309		56.12	Qtal	Mar.6,1968	
27.431110	Domestic	3323.12	95	50.13	Qtal	Dec.1,1970	
27.431141		3323	100	50.84	Qtal	Dec.1,1970	
27.433333	Open cased hole	3323	100	58.66	Qtal	Dec.1,1970	
27.43411	Industrial	3321	822	272.40	Trsc	Sep.9,1971	
28.31243	Windmill	3343	112	61.64	Qtal	Dec.1,1970	
28.421234	Open cased hole	3337	120	58.75	Qtal	Oct.28,1965	
33.22312	Domestic	3347	200	77.56	Trcl	Dec.2,1970	
34.12143	Windmill	3328	85	59.06	Qtal	Dec.1,1970	
34.221	Industrial	3520	229		Qtal		Yield:22gpm(est.)
34.411233	Open cased hole	3323	141	53.76	Ogll	Dec.2,1970	
35.142441	Windmill	3301	69	59.65	Qtal	Dec.2,1970	
35.144221	Domestic	3297	68	57.40	Qtal	Dec.2,1970	
36.134223	Open cased hole	3278		29.90	Qtal	Dec.2,1970	
36.134224	Abandoned stock	3279	55	31.06	Qtal	Dec.2,1970	
36.13443	Community	3276.01		28.12	Qtal	Dec.2,1970	
36.14133	Abandoned stock	3278.6	58	29.85	Qtal	Arp.20,1966	
36.14311	Windmill	3279	55	43.18	Qtal	Dec.2,1970	
22.38. 7.311131	Windmill	3335	47	42.69	Qtal	Oct.26,1965	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
22.38. 7.3111131	Uncased hole	3334	47	44.30	Qtal	Oct.26,1965	
18.234	Industrial	3360	386.0	180	Trsc	Oct.,1953	Yield:20gpm(est.)
18.412443	Open cased hole	3365	400	199.50	Trcl	Oct.26,1965	
19.222314	Open cased hole	3380	400	134.65	Trcl	Dec.8,1970	
19.22424	Windmill	3386	513	146.89	Trsc	Sep.9,1971	
19.34344	Domestic	3347	300	97.34	Trsc	Dec.8,1970	
20.134234	Community	3390	480	150.80	Trcl	Jul.17,1973	
23.32. 4.222	Stock	3630	550		Trsc		Yield:10gpm(est.)
21.222	Stock	3700	550		Trsc		
21.224		3685	391+				
23.33.12.312423	Stock	3531	400	326.70	Trsc	Jan.13,1971	
12.322	Stock	3685	400		Trsc		
28.334	Domestic/stock	3675	575	500	Trsc		Yield:2.5gpm
23.34. 1.44244	Abandoned stock	3359	144	137.29	Ogll	Nov.25,1953	
1.444	None	3360	144±	137.3	Qtal	Nov.25,1953	
6.43314	Stock	3480	600	338.90	Trsc	Jun.11,1968	
16.333312	Stock/domestic	3483	400	344.08	Trsc	Jan.13,1971	
23.42332	Stock	3374	500	235.23	Trsc	Jan.13,1971	
23.42334	Stock	3374		233.06	Ogll	Jan.13,1971	
31.340	Industrial	3620	678		Trsc		Yield:47gpm(est.)
32.42433	Industrial	3573	550	225.37	Trsc	Jan.13,1971	
23.35. 6.33133	Windmill	3359	200	139.87	Ogll	Jan.13,1971	
6.333	Stock	3359	149.42	141.42	Ogll	Nov.18,1977	
11.22343	Stock	3535	205	100.79	Trsc	Dec.9,1970	
12.24142	Windmill	3445	140	126.15	Trsc	Dec.9,1970	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
23.35.15.42314	Stock	3475	60	43.19	Ogll	Dec.9,1970	
27.443421	Abandoned windmill	3472		117.10	Ogll	Jan.13,1971	
28.111111	Unused oil test	3370		230.02	Ogll	Dec.9,1970	
28.12321	Abandoned oil test	3385	795	233.72	Ogll	Oct.17,1967	
29.33431	Stock	3461	400	326.47	Trsc	Dec.9,1970	
36.24234	Windmill	3461	250	203.55	Trsc	Jan.12,1971	
23.36. 4.42431	Windmill	3489	206	163.24	Trsc	Jan.12,1971	
15.44114	Windmill	3375	230	145.91	Ogll	Dec.17,1970	
16.34341	Windmill	3451		261.86	Trsc	Dec.17,1970	
22.34441	Open cased hole	3418	210	188.57	Ogll	Dec.1,1953	
23.111	Industrial	3370		143.6	Ogll	Dec.4,1953	
23.113223	Oil test	3367		141.24	Trsc	Dec.17,1970	
23.22141	Open cased hole	3355		132.39	Ogll	Dec.17,1970	
26.333313	Open cased hole	3360		140.20	Ogll	Dec.17,1970	
31.21443	Abandoned windmill	3428	200	174.66	Ogll	Jan.1,1971	
35.21124	Used windmill	3337	160	123.30	Ogll	Jan.12,1971	
36.11343	Domestic	3329		122.14	Ogll	Dec.17,1970	
36.31412	Industrial	3330		130.02	Ogll	Dec.17,1970	
36.34131	Industrial	3332	250	136.21	Trsc	Dec.17,1970	
36.342	Industrial/domestic	3330	261	120	Ogll		
23.37. 2.13434	Open cased hole	3295	487	71.18	Trsc	Dec.18,1970	
2.422114	Used windmill	3296	70	63.70	Ogll	Dec.18,1970	
3.124441	Used windmill	3304		76.23	Ogll	Dec.18,1970	
3.341223	Abandoned domestic	3291	80	66.20	Ogll	Oct.27,1965	
3.341241	Domestic	3297	76	69.26	Ogll	Dec.18,1970	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
23.37. 3.42123	Abandoned windmill	3296	130	64.88	Ogll	Dec.18,1970	
4.11413	Stock	3338		82.17	Ogll	Jan.12,1971	
4.114413	Open hole	3338		81.81	Ogll	Dec.3,1953	
4.21144	Industrial/domestic	3336	201	154.86	Ogll	Apr.20,1966	
5.43211	Abandoned windmill	3331		87.80	Ogll	Oct.28,1965	
5.44243	Open cased hole	3325		85.00	Ogll	Dec.18,1970	
6.144243	Used windmill	3377	120	102.38	Ogll	Jan.12,1971	
6.42231	Abandoned oil test	3362	96	89.55	Ogll	Jan.12,1971	
8.22231	Unused	3320		87.09	Ogll	Mar.5,1968	
10.42123	Used windmill	3289	110	65.80	Ogll	Jan.12,1971	
10.42241	Used windmill	3292	110	67.98	Ogll	Jan.12,1971	
11.11144	Abandoned stock	3294	75	68.57	Ogll	Jan.12,1971	
16.414112	Abandoned oil test	3305	175	101.82	Ogll	Dec.1,1970	
20.122213	Used windmill	3308		100.24	Ogll	Dec.16,1970	
20.33330	Domestic/stock	3309	177	107.50	Ogll	Jan.12,1971	
21.44322	Used windmill	3291		93.50	Ogll	Dec.16,1970	
23.424221	Used windmill	3214	39	28.50	Ogll	Dec.16,1970	
25.132	Stock	3215		28.3	Ogll ?	Oct.15,1953	
27.44141	Used windmill	3258	85	75.82	Ogll	Dec.16,1970	
27.443413	OPen cased hole	3260		81.12	Ogll	Dec.16,1970	
28.13342	Abandoned windmill	3315	150	118.15	Ogll	Dec.16,1970	
29.21322	Domestic/stock	3303		111.73	Ogll	Feb.29,1968	
31.442322	Open cased hole	3307	173	100.97	Ogll	Dec.15,1970	
32.12240	Used windmill	3295	220	98.99	Ogll	Jul.23,1954	
32.21431	Open cased hole	3291		39.63	Ogll	Oct.22,1965	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
23.37.32.331	Industrial/domestic	3310	173		Ogll ?		Yield:40gpm(est.)
33.122	None	3310	120.0	91.2		Mar.4,1953	
33.14111	Open cased hole	3283	120	91.23	Ogll	Mar.4,1953	
33.32320	Domestic/stock	3275	140	88.32	Ogll	Dec.16,1970	
34.22121	Secondary recovery	3261	970	81.12		Feb.29,1968	
36.43333	Open cased hole	3177	45	20.64	Ogll	Dec.16,1970	
24.32. 3.322	Domestic/stock	3372		198.3	Trsc	Oct.15,1953	
10.344	Stock	3590	40	34.50		Nov.18,1977	
33.422	Stock	3510	367.0	313.4	Trsc	Feb.18,1958	Yield:0.25gpm(est)
33.423	Stock	3497	334.2	314.09		Nov.8,1977	
24.33.10.113	Stock	3595	36±	24.6	Qtal	Nov.27,1953	
10.13140	Stock			24.6	Ogll	Nov.27,1953	
23.311	Abandoned stock		232	208.66	Ogll	Nov.27,1953	
24.44444	Stock			17.40	Ogll	Nov.27,1953	
33.231	Domestic/stock	3460		93.2	Qtal	Mar.17,1954	
33.23312	Domestic/stock			93.15	Ogll	Mar.17,1954	
24.34. 4.11321	Abandoned stock	3568	70	51.88	Ogll	Dec.8,1970	
4.114	Observation	3568	56	51.86		Nov.18,1977	
4.21124	Industrial	3540	630	342.56	Ogll	Dec.8,1970	
4.33333				66.59	Ogll	Apr.21,1955	
7.22222				72.19	Ogll	Dec.8,1970	
10.11222	Stock	3059.43		69.73	Ogll	Dec.8,1970	
10.112221	Abandoned	3060	83	71.91	Ogll	Jun.3,1955	
10.42410	Abandoned		93.5	63.15	Ogll	Apr.27,1953	
35.122	Stock	3410	258.0	223.9	Trsc	Mar.29,1953	

Records of wells from Lea County, New Mexico

Location	Well Status	Altitude (feet)	Depth of Well(ft.)	Depth to Water(ft.)	Aquifer	Date of Measurement	Remarks
24.34.35.12411	Stock		260	218.04	Ogll	Jan.13,1971	
24.35.10.1100	Abandoned oil test	3381		273.98	Ogll	Dec.9,1970	
10.13333	Stock	3360.10	190	158.79	Ogll	Dec.9,1970	
15.2300	Abandoned	3360		6.27	Ogll	Dec.9,1970	
24.4240	Stock	3384.28		127.65	Ogll	Dec.14,1970	
30.34411	Stock	3322.79	150	138.58	Ogll	Dec.8,1970	
34.14344	Stock	3257.66	112	147.05	Ogll	Dec.8,1970	
24.36. 3.111	None	3400		181.1	Ogll	Mar.12,1953	
3.11423	Open cased hole	3401		176.15	Ogll	Dec.1,1970	
3.12342	Open cased hole	3404		178.81	Ogll	Dec.1,1970	
3.313132	Open cased hole	3410		187.60	Ogll	Mar.26,1968	
3.33334	Open cased hole	3397	550	175.62	Ogll	Dec.1,1970	
3.33333	Used oil test	3396	530	174.89	Ogll	Dec.1,1970	
4.44444	Used windmill	3398		175.84	Ogll	Dec.1,1970	
9.13334	Used windmill	3400		191.70	Ogll	Dec.1,1970	
13.44343	Stock	3320	151	133.90	Ogll	Dec.2,1970	
15.22112	Domestic	3393	220	177.15	Ogll	Dec.1,1970	
20.210		3355	5,620	1,229.41	Cplm	Sep.,1974	
22.220	Domestic	3340	692				Yield:6gpm
23.212120	Used windmill	3348	172	141.62	Ogll	Dec.2,1970	
23.222134	Open cased hole	3346	170	146.17	Ogll	Dec.2,1970	
26.44221	Abandoned open hole	3287		101.09	Ogll	Dec.2,1970	
27.22113	Open cased hole	3331	150	123.77	Ogll	Dec.2,1970	
27.221	Abandoned hole	3330		122.88	Ogll	Mar.6,1953	
24.37. 1.32422	Used oil test	3165		25.94	Ogll	Dec.13,1965	
1.32424	Used windmill	3163		17.23	Ogll	Dec.4,1970	

CHAVES COUNTY
NEW MEXICO

FIGURE 3.--MAP OF PART OF CHAVES COUNTY SHOWING INTEGRATED DRAINAGE BASINS.

EDDY COUNTY
NEW MEXICO

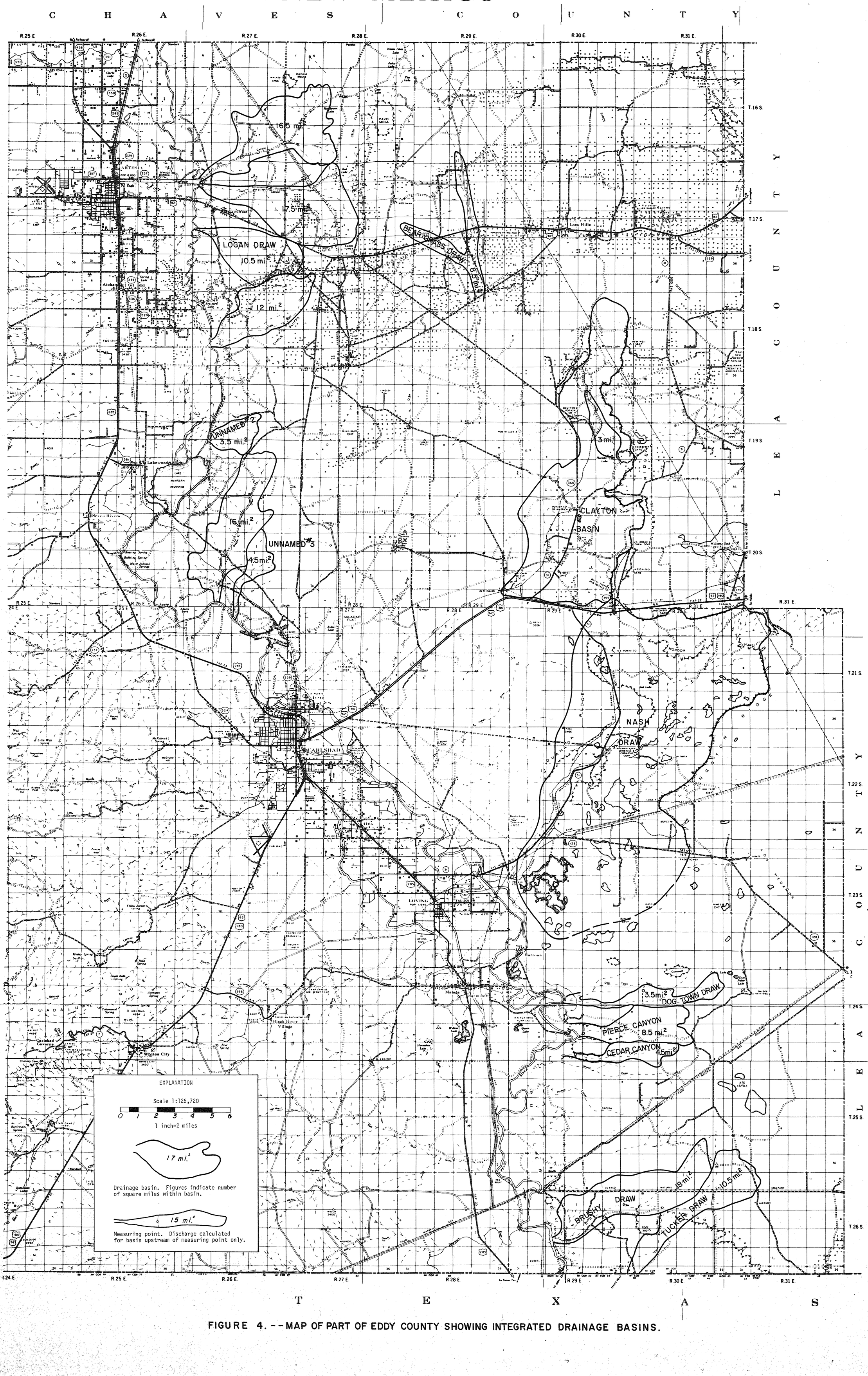


FIGURE 4. --MAP OF PART OF EDDY COUNTY SHOWING INTEGRATED DRAINAGE BASINS.

LEA COUNTY
NEW MEXICO

EXPLANATION

Scale 1:126,720

0 1 2 3 4 5 6

1 inch=2 miles

8 mi.²

Drainage basin. Figures indicate number of square miles within basin.

ROOSEVELT COUNTY

CHAVES COUNTY

EDDY COUNTY

YOAKUM COUNTY

GAINES COUNTY

ANDREWS COUNTY

LOVING COUNTY

WINKLER CO

TEXAS

13 mi²

46 mi²

29 mi²

5 mi²

FIGHT IN HOLLOW DRAW

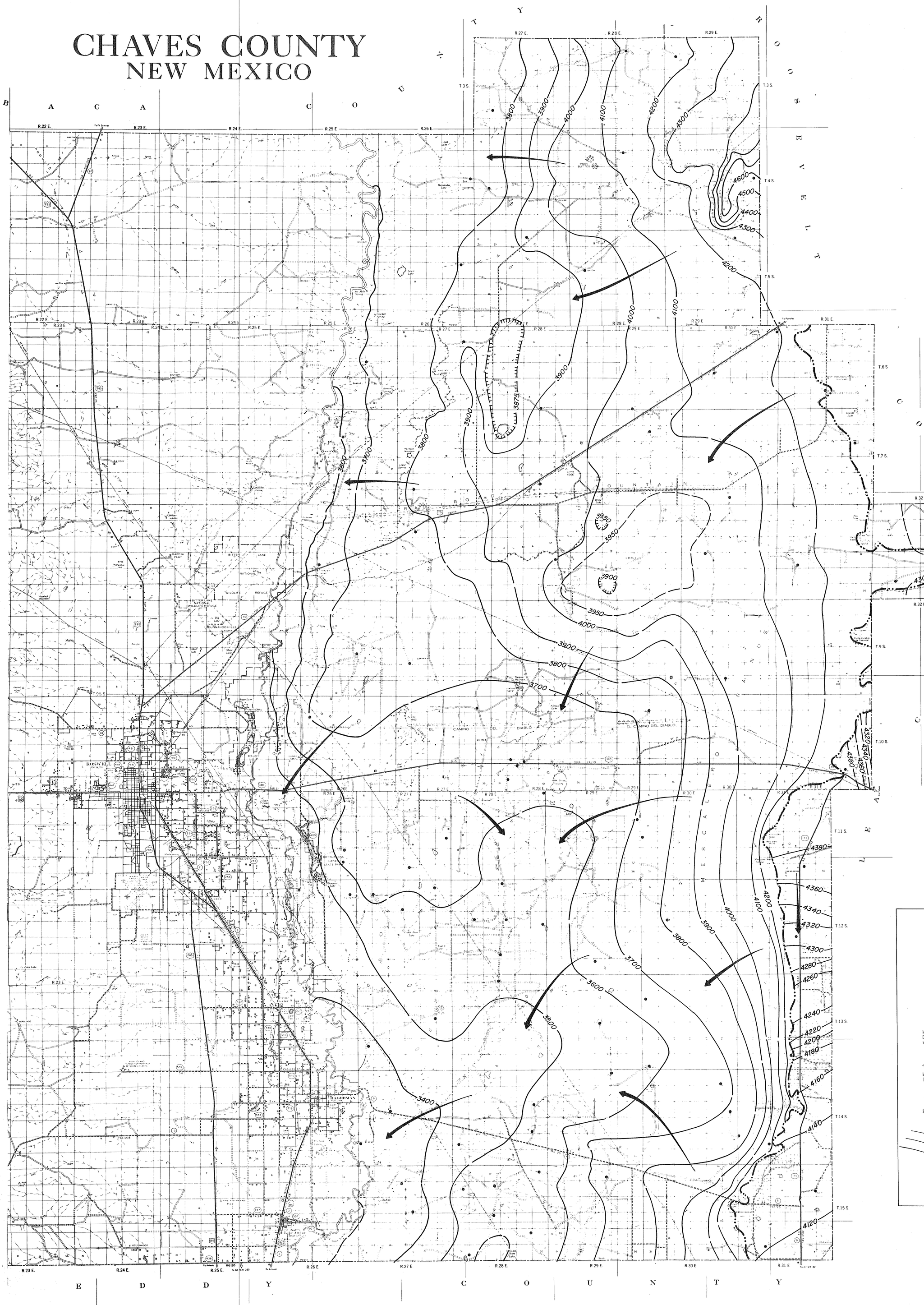
ANTELOPE DRAW 10.5 mi²

RED HILLS DRAW 7.5 mi²

SALADO DRAW 5.5mi²

FIGURE 5. -- MAP OF LEA COUNTY SHOWING INTEGRATED DRAINAGE BASINS.

CHAVES COUNTY
NEW MEXICO



EXPLANATION

Scale 1:126,720

0 1 2 3 4 5 6

1 inch=2 miles

Well Symbol

Well data shown in Appendix A

3500

Water-level contours show altitude of water level. Dashed where approximately located. Contour interval variable.

3900

Water-level contour indicating depression in water level.

Basin boundary.

4000 3900 3800

Arrow indicates direction of ground-water movement. Movement is normal to contours.

FIGURE 11.--WATER-TABLE CONTOUR MAP OF PART OF CHAVES COUNTY

EDDY COUNTY
NEW MEXICO

CHAVES COUNTY

LEA COUNTY

EXPLANATION

Scale 1:126,720

0 1 2 3 4 5 6

1 inch=2 miles

Well Symbol

Well data shown in Appendix A

2950

Water-level contours show altitude of water level. Dashed where approximately located. Contour interval 50 feet.

3000

Water-level contour indicating perched water.

Basin boundary.

Arrow indicates direction of ground-water movement. Movement is normal to contours.

3200 3150 3100

NEW MEXICO

TEXAS

FIGURE 12.--WATER TABLE CONTOUR MAP, EDDY COUNTY.

LEA COUNTY
NEW MEXICO

EXPLANATION

Scale 1:126,720

0 1 2 3 4 5 6

1 inch=2 miles

Well Symbol

Well data shown in Appendix A

3500

Water-level contours show altitude of water level. Dashed where approximately located. Contour interval variable. Northern Lea County contours after Ash (1963).

3150

Water-level contour indicating depression in water level.

Basin boundary, modified after Nicholson and Clebsch (1961).

3600 3500

Arrow indicates direction of ground-water movement. Movement is normal to contours.

Areas of zero saturated thickness of Ogallala. Modified from New Mexico State Engineer Map LN-4.

ROOSEVELT COUNTY

CHAVES COUNTY

EDDY COUNTY

YOAKUM COUNTY

GAINES COUNTY

ANDREWS COUNTY

LOVING COUNTY

WINKLER CO

TEXAS

NEW MEXICO

FIGURE 13.--WATER-TABLE CONTOUR MAP, LEA COUNTY.

CHAVES COUNTY
NEW MEXICO

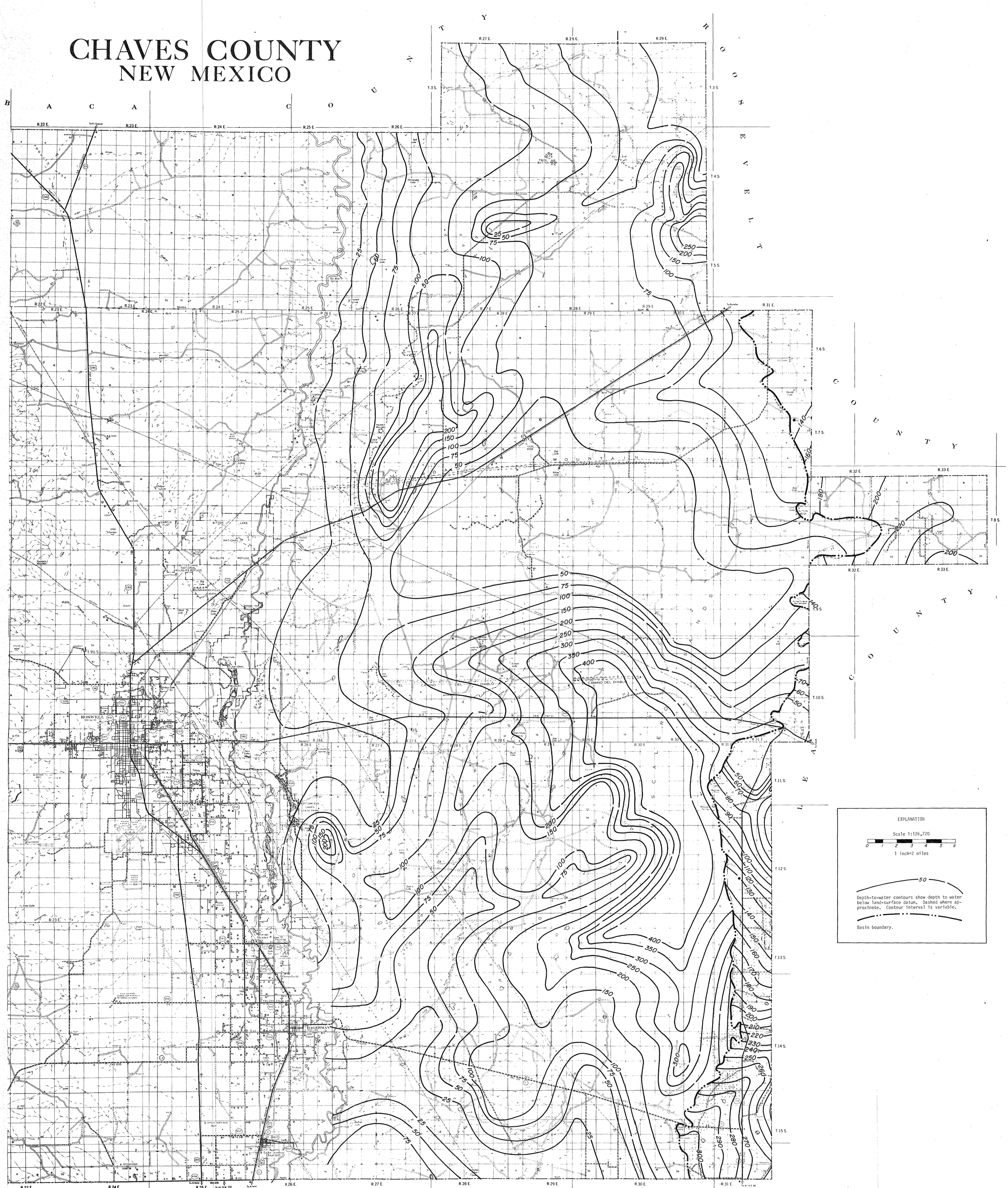


FIGURE 14.--DEPTH-TO-WATER MAP, OF PART OF CHAVES COUNTY.

EDDY COUNTY
NEW MEXICO

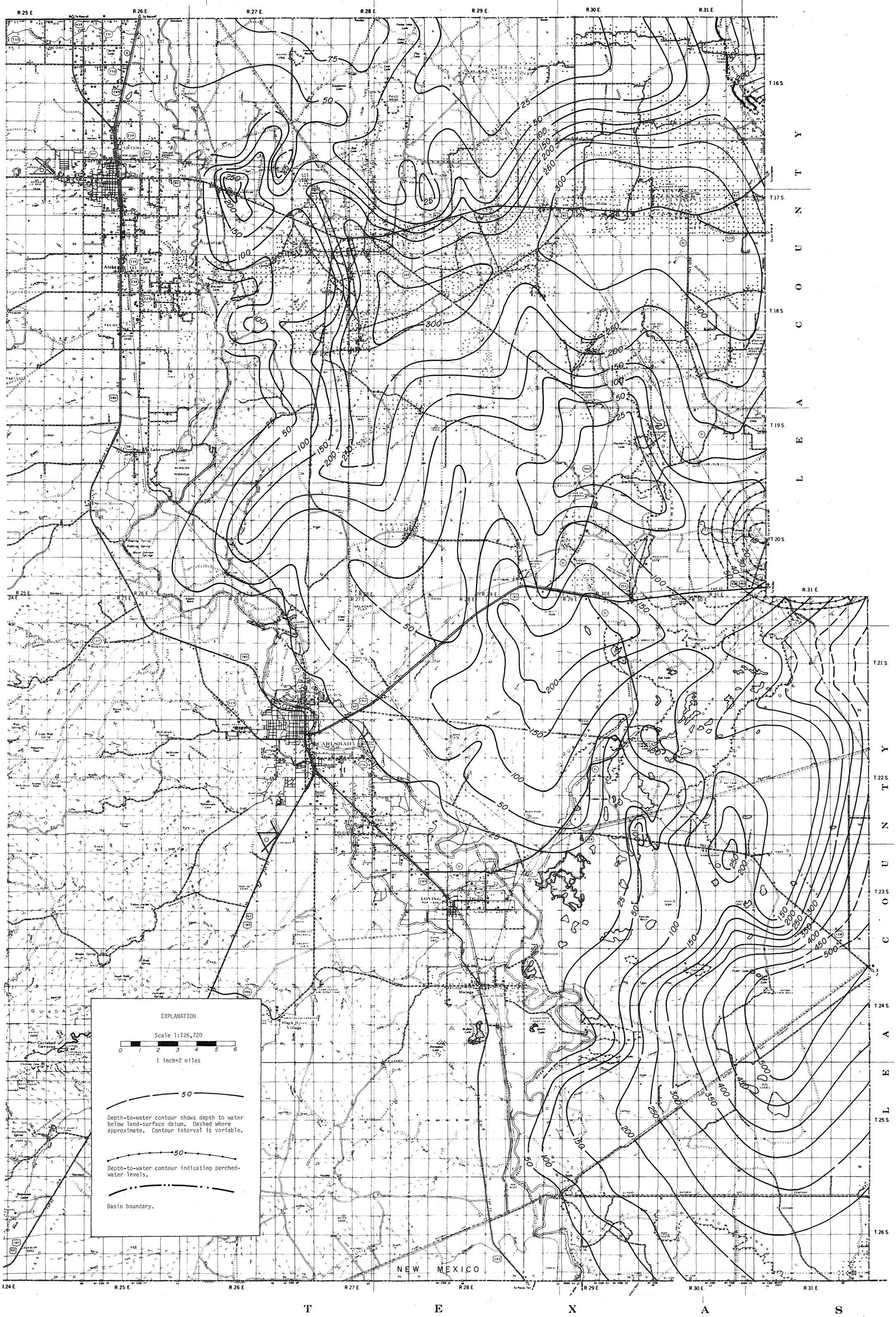


FIGURE 15.-- DEPTH-TO-WATER MAP, EDDY COUNTY.

LEA COUNTY
NEW MEXICO

EXPLANATION

Scale 1:126,720

0 1 2 3 4 5 6

1 inch=2 miles

50

Depth-to-water contour shows depth-to-water below land-surface datum. Dashed where approximate. Contour interval is variable.

Depth-to-water contour indicating perched-water levels.

Basin boundary, inferred from hydrologic characteristics.

ROOSEVELT COUNTY

CHAVES COUNTY

YOAKUM COUNTY

COCHRAN CO.

EDDY COUNTY

GAINES COUNTY

TERRY COUNTY

DAWSON COUNTY

LOVING COUNTY

WINKLER CO.

TEXAS

FIGURE 16.--DEPTH-TO-WATER MAP, LEA COUNTY

CHAVES COUNTY
NEW MEXICO

EXPLANATION

Scale 1:126,720

0 1 2 3 4 5 6

1 inch=2-miles

- ○ Unpublished water analysis.
- ● BLM sample for water analysis.
- 4320 ● BLM field conductance of water. No water sample collected.
- 9200 ● BLM field conductance and water sample.

FIGURE 18.--CHEMICAL-QUALITY SAMPLE POINTS, PART OF CHAVES COUNTY

EDDY COUNTY
NEW MEXICO

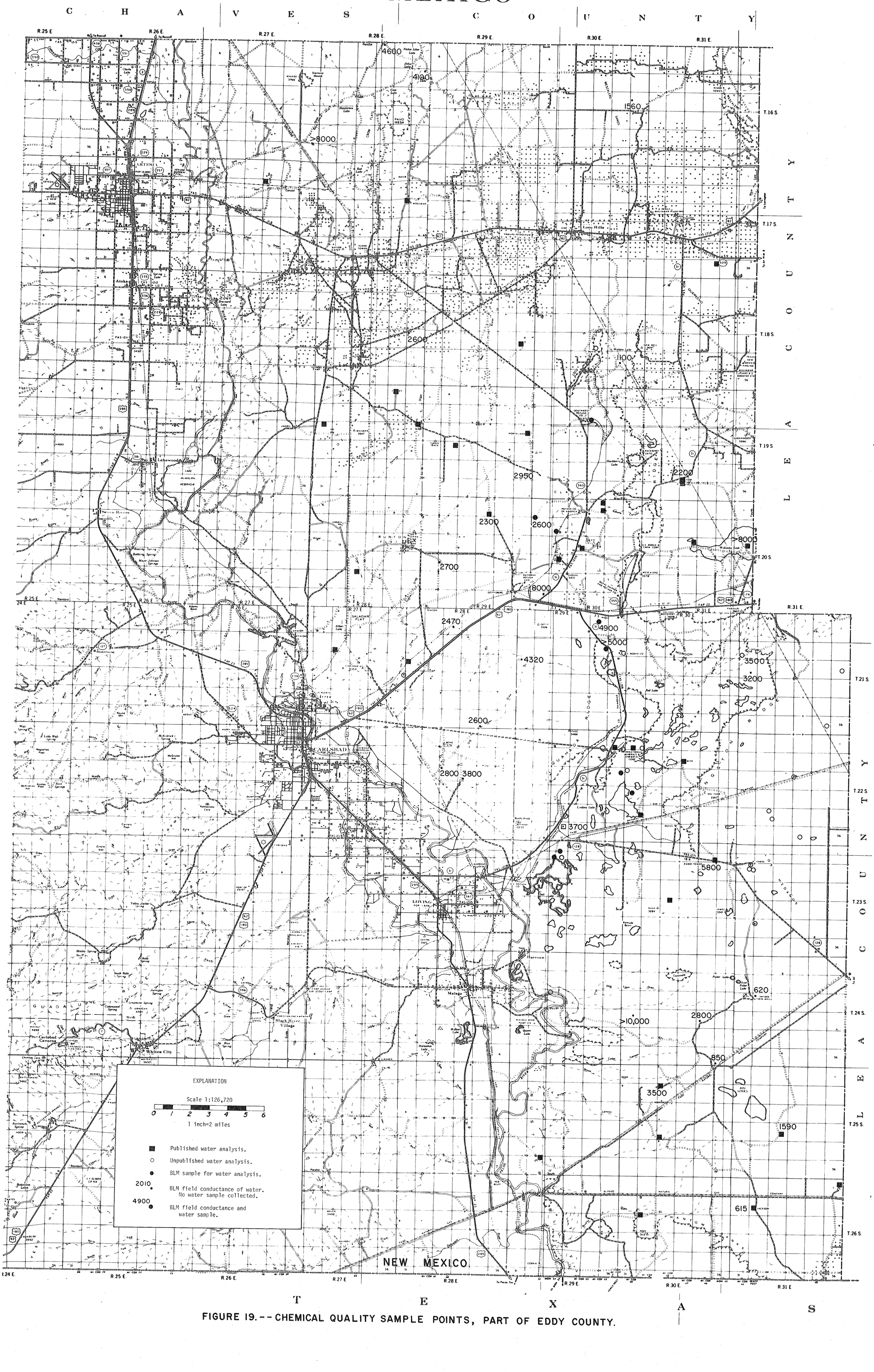


FIGURE 19.--CHEMICAL QUALITY SAMPLE POINTS, PART OF EDDY COUNTY.

LEA COUNTY
NEW MEXICO

EXPLANATION

Scale 1:126,720

0 1 2 3 4 5 6

1 inch=2 miles

- ■ Published water analysis.
- ○ Unpublished water analysis.
- ● BLM sample for water analysis.
- 1560● BLM field conductance of water. No water sample collected.
- 650● BLM field conductance and water sample.

ROOSEVELT COUNTY

CHAVES COUNTY

YOAKUM COUNTY

EDDY COUNTY

GAINES COUNTY

ANDREWS COUNTY

LOVING COUNTY

WINKLER CO

TEXAS

FIGURE 20.--CHEMICAL-QUALITY SAMPLE POINTS, LEA COUNTY.