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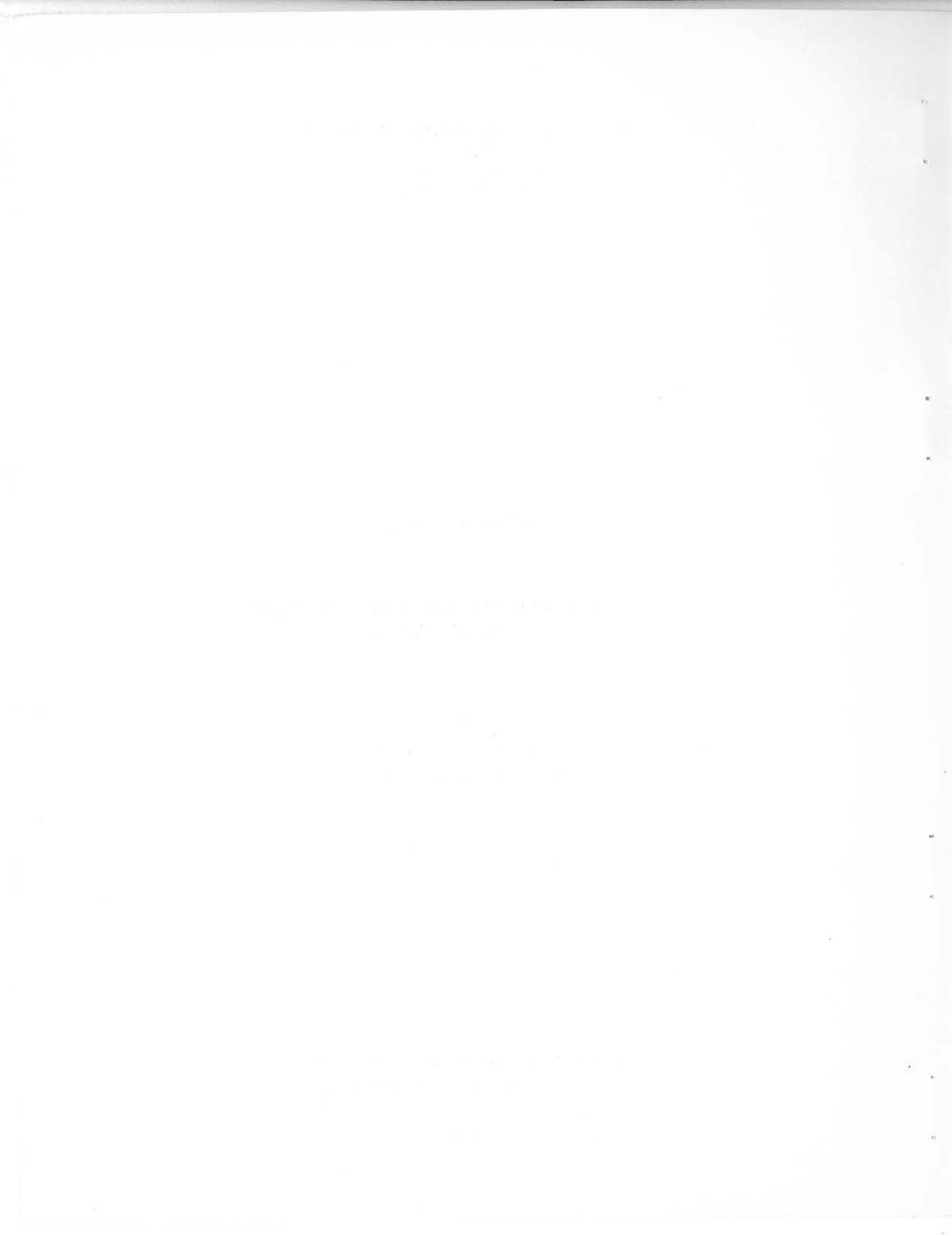
GEOLOGY AND GROUND-WATER RESOURCES OF  
LAMB COUNTY, TEXAS

By

E. R. Leggat, Geologist  
United States Geological Survey

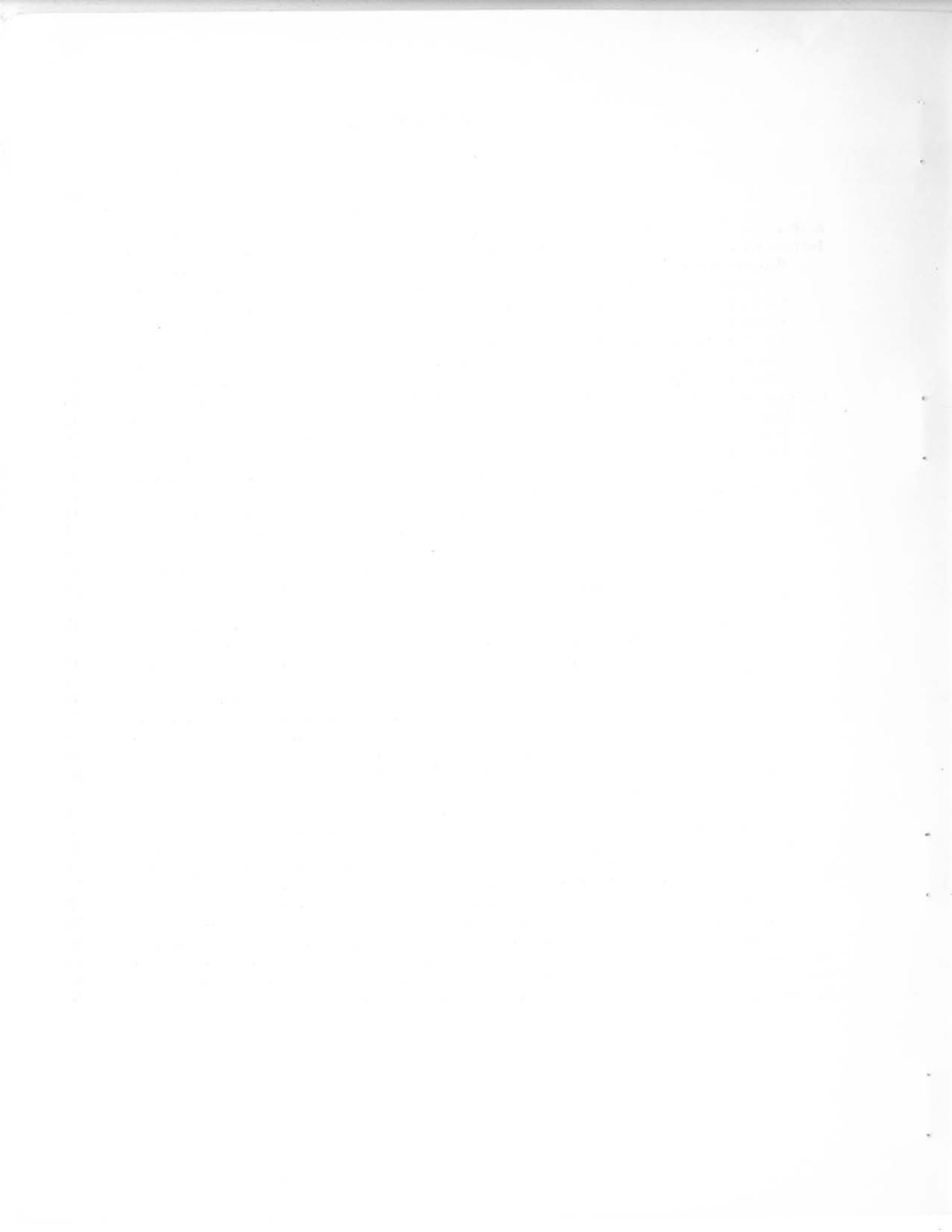
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# GEOLOGY AND GROUND-WATER RESOURCES OF LAMB COUNTY, TEXAS

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## ABSTRACT

This report describes the geology and ground-water resources of Lamb County in the southern High Plains of Texas. The county has an area of 1,022 square miles. The surface drainage is into numerous ephemeral ponds and three intermittent tributaries of the Brazos River - Running Water Draw, Double Mountain Fork of the Brazos River, and Yellow House Draw. About 150 square miles in the western part of the county is covered by sand dunes.

The Ogallala formation, of Tertiary age, is the most important aquifer in the county, and it supplies all water for municipal use and for irrigation. The number of irrigation wells in Lamb County increased from about 75 in 1937 to 1,719 in 1951, and as a result the withdrawal of ground water increased from about 17,000 acre-feet in 1937 to an estimated 210,000 acre-feet in 1951. The saturated thickness of the Ogallala formation is greatest in the northwestern part of the county, where it exceeds 200 feet, and diminishes toward the south to less than 50 feet. The depth to water ranges from about 5 feet below the land surface in the area adjoining the sandhills to more than 180 feet in the southwestern part of the county.

The ground water in the sand and gravel of the Ogallala formation is unconfined. The water enters the underground reservoir from precipitation on the county and on areas to the northwest. Most of the precipitation that falls in light or moderate amounts in Lamb County is lost by evapotranspiration and does not reach the water table. However, during heavy rains considerable recharge takes place from runoff into the depressions and stream beds and by direct infiltration through the soil in areas of sand dunes or very sandy soil and subsoil. The amount of recharge cannot be estimated from the available data. The discharge of ground water, in addition to that from wells, includes approximately 4,500 to 5,000 acre-feet of ground water discharged annually by evapotranspiration in areas where the water table is near the surface, and an unknown amount of underflow to counties downgradient to the east and southeast.

Water levels in observation wells have declined persistently since 1943 except in wells that are remote from pumping or that are marginal to the irrigated regions. In these areas the water levels have declined little, and in some wells they were at a higher stage in 1953 than in 1938. Subnormal precipitation together with the increased rate of withdrawal for irrigation during 1952 caused the water levels in observation wells to decline more than in any previous year, however. Although pumping has decreased the quantity of water in storage, it is estimated that 12 million acre-feet of ground water is still available in the county. A large potential supply of ground water for municipal and industrial use is available from the 150 square miles of sandhills, where about  $2\frac{1}{4}$  million acre-feet of the total of 12 million in the county is stored.

The ground water is generally of satisfactory quality for most purposes, although it is very hard and rather high in bicarbonate content. In the areas near alkali lakes and in the vicinity of seeps, it is highly mineralized.

Although the Permian sedimentary rocks are important producers of petroleum, they are unimportant as a potential source of ground water. The sandstones of Triassic age have not been tested thoroughly for water, but electric logs and test-well data in adjacent regions indicate that they will not yield large supplies of fresh water. In the southern part of the county, several domestic wells are reported to draw mineralized water from the basal sand and gravel of the Cretaceous.

## INTRODUCTION

### PURPOSE AND SCOPE

The purpose of this report is to discuss the geology of Lamb County, Tex., as it is related to the occurrence and development of ground water; to bring up to the date of the field work (1952) the records of wells and the fluctuations of water levels; to describe the water-yielding properties of the water-bearing formations; and to describe the chemical character of the ground water. The investigation in Lamb County was made possible through cooperation between the Texas State Board of Water Engineers and the U. S. Geological Survey and is a part of a Statewide program of study of the ground-water resources.

The investigation was started in the spring of 1950 by J. C. Albert and J. W. Garrett and was continued in 1951 and 1952 by J. Q. Frizzell and G. E. Welder. The writer completed the field studies in 1952. The report includes records of 1,742 wells, of which 1,719 are used, or were formerly used, for irrigation (table 8); drillers' logs of 172 wells (table 9); records of water-level measurements in 45 wells (table 10); chemical analyses of water from 88 wells, 2 springs, and a lake (table 11); a map showing the locations of the wells and other features described (pl. 1); and cross sections showing the generalized geology (pls. 2 and 3).

The field work was supervised by W. L. Broadhurst, former District Geologist, and the report was prepared under the supervision of R. W. Sundstrom, District Engineer of the Geological Survey in charge of ground-water investigations in Texas. The entire program was carried out under the general direction of A. N. Sayre, Chief of the Ground Water Branch of the U. S. Geological Survey.

### PREVIOUS INVESTIGATIONS

No detailed investigation of the geology and ground-water resources of Lamb County has been made prior to this study. However, numerous reports have contained general information on the geology and ground-water conditions of the county. Johnson (1901-02) reported on the utilization of the High Plains and discussed the physiography, underground waters, and land economy. Baker (1915) made reference to geologic and hydrologic conditions in parts of Lamb County. Theis, Burleigh, and Waite (1935) described briefly the water-bearing formations and the depth to water in the southern High Plains. An inventory of water wells in Lamb County was made in 1937 by Broadhurst and McCarty (1938). Since 1938 the annual reports of the U. S. Geological Survey on water levels and artesian pressures in the United States have included a chapter on the observation wells in Lamb County. The public water supplies of Amherst, Littlefield, Olton, and Sudan were described by Broadhurst, Sundstrom, and Weaver (1949). Seven progress reports have been written since 1936, which discuss the geology and ground water in the irrigated region of the southern High Plains in Texas. A summary of the fluctuations of water levels in the southern High Plains, which includes Lamb County, was published in 1951 (Leggat). Brand (1953) made a detailed study of the Cretaceous rocks of the Llano Estacado, including part of Lamb County.

### LOCATION

Lamb County is in the southern High Plains of Texas and is bounded on the north by Castro and Parmer Counties, on the east by Hale County, on the south by Hockley County, and on the west by Bailey County (fig. 1). Most of the county lies between  $34^{\circ}20'$  and  $33^{\circ}50'$  north latitude and  $102^{\circ}05'$  and  $102^{\circ}35'$  west longitude. It has an area of 1,022 square miles and, according to the U. S. Bureau of the Census, had a population of 20,015 in 1950. Littlefield, which had a population of 6,558, is the county seat and principal shipping and trading center. Littlefield is 37 miles northwest of Lubbock, 24 miles southeast of Muleshoe, and 45 miles southwest of Plainview.

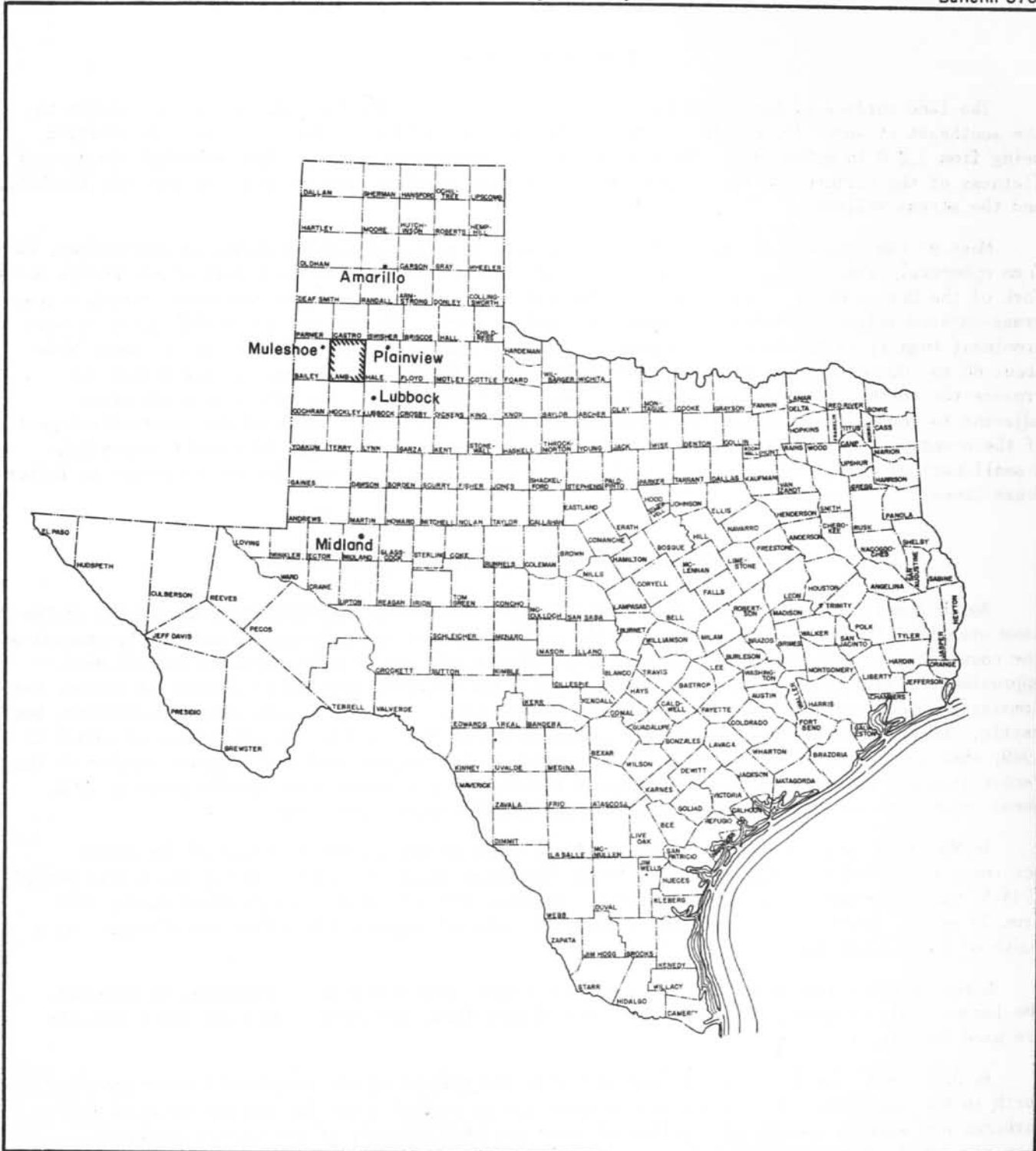


FIGURE 1. - Map of Texas showing location of Lamb County

Transportation facilities include several paved Federal and State highways and numerous paved farm-to-market roads. The Panhandle and Santa Fe Railway serves Littlefield, Amherst, and Sudan.

#### TOPOGRAPHY AND DRAINAGE

The land surface of Lamb County is nearly level to gently rolling and, in general, slopes to the southeast at about 10 feet to the mile. The total relief is 460 feet, the range in altitude being from 3,370 to 3,830 feet. The most prominent topographic features that interrupt the general flatness of the surface are the numerous dish-shaped depressions, several playa basins, the sandhills, and the stream valleys.

Most of the drainage of the county is into these dish-shaped shallow basins or depressions, which form ephemeral lakes during occasional periods of heavy rainfall. The North Fork of the Double Mountain Fork of the Brazos River rises in eastern New Mexico and meanders east and southeast through a broad grass-covered valley, crossing the sandhills south of Earth. Beyond this point the valley is more prominent than it is to the west, ranging in width from about 500 to 3,500 feet and in depth from about 60 to 100 feet. Running Water Creek which seldom flows, rises in eastern New Mexico and crosses the northeast corner of the county. These intermittent streams, draining small areas adjacent to the valleys, rarely carry floodwaters out of the county. Much of the southwestern part of the county is drained into large alkali lakes, or playas, such as Bull Lake and Illusion Lake. A small part of the southeast corner of the county is drained by an intermittent tributary to Yellow House Creek.

#### AGRICULTURAL AND INDUSTRIAL DEVELOPMENT

Agriculture is the principal source of income in the county. Approximately 80 percent of the land area is cultivated and 40 percent of the cultivated area is irrigated. According to records of the county agent, farm income in 1949 was about \$24,900,000 and in 1950 was about \$40,000,000. Approximately 90 percent of the farm income in 1950 was obtained from the production of cotton; the remaining 10 percent came from grain sorghum, wheat, alfalfa, peanuts, sudan grass, vegetables, beef cattle, and dairy products. Lamb County ranked fourth in the State in the production of cotton in 1949, when 192,277 bales were produced. The county is the largest producer of grain sorghum in the Panhandle-South Plains area, about 10,400,000 bushels being produced from 260,000 acres in 1950. Wheat production in 1949 and 1950 averaged about 225,000 bushels per year.

In May 1944, oil was discovered in the Anton field in the southeast corner of the county. According to the Railroad Commission of Texas, the total production of oil during the 8-year period 1944-51 was approximately 1,553,000 barrels. Of this, 317,669 barrels was produced during 1950 from 30 wells. Most of the petroleum is found in rocks of supposed Clear Fork age (Permian) at a depth of about 6,000 feet.

Deposits of caliche near the land surface are used extensively for road-surfacing material. The largest caliche quarry is at the south end of Bull Lake, but other widely scattered deposits are used locally.

In June 1952, the first unit of a 3-unit electric powerplant was completed 5 miles south of Earth in the sandhills. This plant uses natural gas to produce steam for the operation of the turbines and uses an average of 1 gallon of water for each kilowatt of electricity produced. When completed, the plant will have a capacity of 250,000 kilowatts.



## CLIMATE

The climate of Lamb County is semiarid and is characterized by a wide range in temperature, low precipitation, and high evaporation. Records at Littlefield are incomplete; therefore, most of the following climatological data were obtained from records of the U. S. Weather Bureau at Muleshoe in Bailey County. The highest and lowest temperatures recorded over a period of 23 years were 110°F and -21°F. The average annual temperature is about 57°F; average monthly temperatures are shown in figure 2. The approximate dates of the last killing frost in spring and the first killing frost in autumn in Littlefield are April 19 and November 4. Thus, the average length of the growing season is about 200 days.

Annual precipitation at Muleshoe during the period 1922-52, inclusive, averaged 18.25 inches. Of this nearly three-quarters was recorded during the 6-month growing season from April to September, inclusive (table 1). The annual precipitation and the cumulative departure from normal precipitation are shown in figure 3, and the maximum, minimum, and average monthly precipitation are shown in figure 4. Records of daily precipitation indicate that, on the average, some moisture will fall during 45 days of the year. Of this precipitation, 53 percent is in amounts of less than 0.5 inch per day, and about 90 percent in amounts of less than 2 inches per day (fig. 5). The frequency-of-precipitation curve (fig. 6) indicates that a 3-inch rain in 24 hours may be expected only once in about 6 years, whereas a 2-inch rain may be expected almost every 2 years.

Table 1. - Precipitation at Muleshoe, Tex. From records of the U. S. Weather Bureau

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1921	-	-	-	-	-	-	-	1.05	3.02	0	0	0	-
1922	0.11	0.10	0.31	5.15	1.90	2.17	1.92	.40	1.60	0	.33	0	13.99
1923	.09	1.57	1.51	1.83	.77	10.05	1.70	1.12	2.32	6.27	1.33	.53	29.09
1924	0	.25	1.07	.37	1.07	1.67	8.13	3.39	.95	.67	.45	0	18.02
1925	0	0	.09	.08	1.69	3.96	1.46	2.78	4.14	.85	.37	0	15.42
1926	0	0	1.62	2.42	4.33	.97	1.31	1.71	8.49	2.04	.40	.94	24.23
1927	.54	0	.16	.13	0	1.71	4.61	2.03	5.16	.03	0	.55	14.92
1928	0	.40	.20	0	3.53	1.13	2.39	2.39	1.19	4.70	2.80	.23	18.96
1929	.23	0	2.25	.15	5.16	2.59	.67	2.27	3.82	1.36	.57	0	19.07
1930	0	0	0	3.52	1.84	2.93	1.27	1.65	2.43	2.04	.69	.47	16.84
1931	1.11	1.32	.45	3.46	2.41	.68	2.88	4.63	.52	.72	1.41	1.46	21.05
1932	.51	.52	.05	1.05	.85	4.25	.30	2.70	4.58	.63	0	1.89	17.33
1933	.48	.52	.69	.20	1.41	.69	.95	6.27	.91	.57	.86	0	13.55
1934	.12	.14	1.96	1.31	1.64	2.39	1.28	1.34	1.77	.98	2.14	.14	15.21
1935	.35	.28	.95	.07	1.85	4.48	2.96	1.04	.89	.11	1.70	.22	14.90
1936	1.82	.14	.12	.19	5.66	1.36	1.80	.41	2.55	.88	.12	.67	15.72
1937	.08	.18	1.66	.95	5.66	2.56	1.24	.60	4.71	1.28	0	.56	19.48
1938	.64	1.24	1.45	.73	1.63	7.74	1.78	.54	1.39	2.93	.34	.08	20.49
1939	1.96	.06	.40	.57	2.06	1.82	.94	3.42	.05	1.28	.18	1.34	14.08
1940	.27	.65	0	1.53	2.63	1.89	.33	3.97	.37	.22	2.04	.07	13.97
1941	.24	.38	3.14	1.99	11.86	5.77	6.92	2.09	3.46	6.37	.47	.83	43.52
1942	.02	0	1.15	2.96	.60	2.21	.98	4.50	2.29	4.94	0	1.45	21.10
1943	0	.50	0	.28	1.67	1.74	3.13	.21	1.12	1.06	1.10	3.45	14.26
1944	.57	.78	.01	1.14	2.07	4.00	2.21	3.44	4.77	.12	.47	.93	20.51
1945	.57	.13	.17	.35	.64	0	1.68	2.50	3.79	1.17	0	.21	11.21
1946	1.18	.05	.19	.14	.80	2.82	1.00	2.20	4.21	5.48	.64	1.17	19.88
1947	.58	.20	.67	1.36	4.32	.35	2.50	.33	.22	.22	.76	.58	12.09
1948	.53	1.62	.20	.31	1.09	1.90	2.02	1.79	.86	.23	.39	.31	11.25
1949	2.34	.84	.18	1.96	7.26	4.73	3.40	.26	1.81	1.23	.19	.29	24.49
1950	.15	0	0	.12	.45	1.24	7.78	4.55	4.88	.07	0	.03	19.27
1951	.62	1.16	.21	.11	6.86	5.34	3.48	1.34	.06	1.51	.29	.36	21.34
1952	.80	.09	.26	1.74	.47	1.59	1.64	1.60	.87	0	1.09	.29	10.44

Figure 2 lists the average monthly evaporation from a free-water surface as determined from records of the Texas Agricultural Experiment Station at Lubbock. These records, which are probably representative of conditions in Lamb County, indicate that the average annual evaporation from a free-water surface is about 60 inches, or about three times the average annual precipitation. Even during the growing season, when precipitation is greatest, but when soil-moisture demand also is greatest, evaporation is about three times the available precipitation.

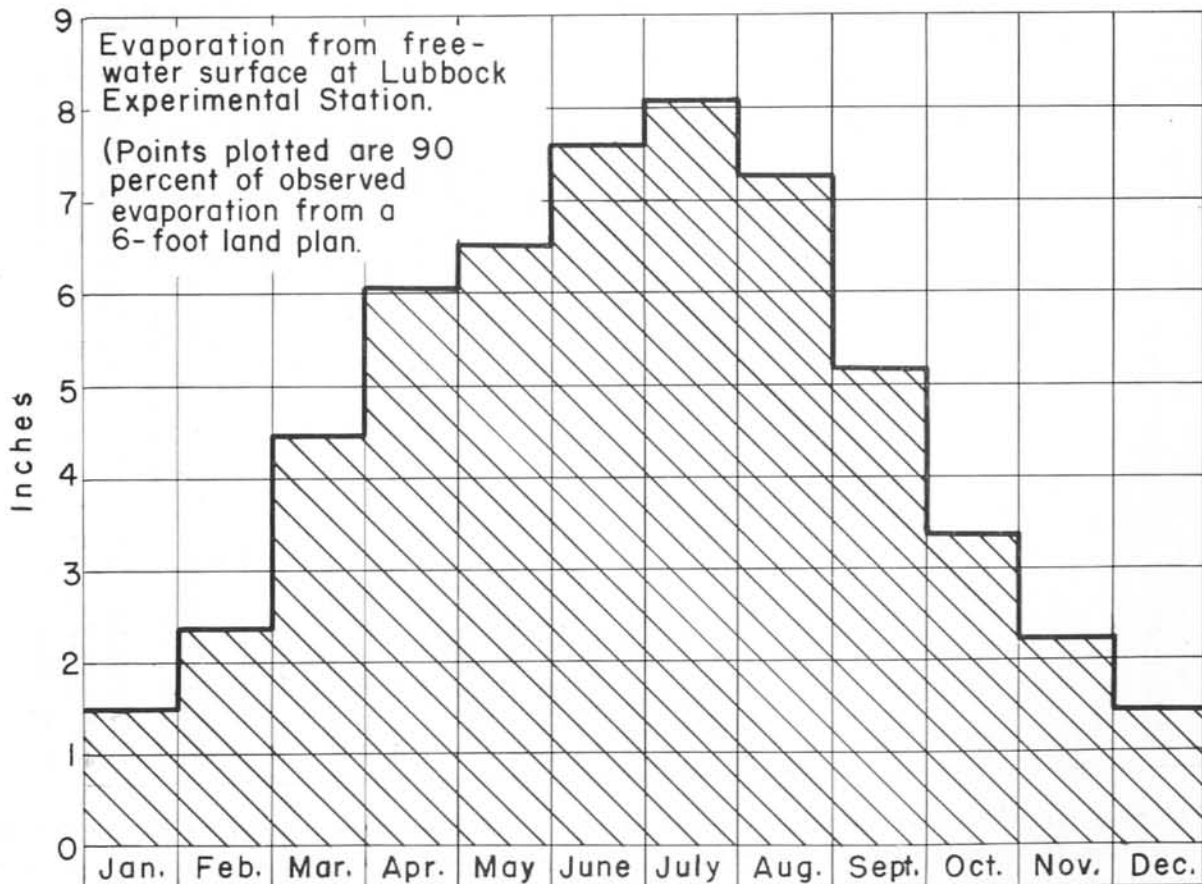
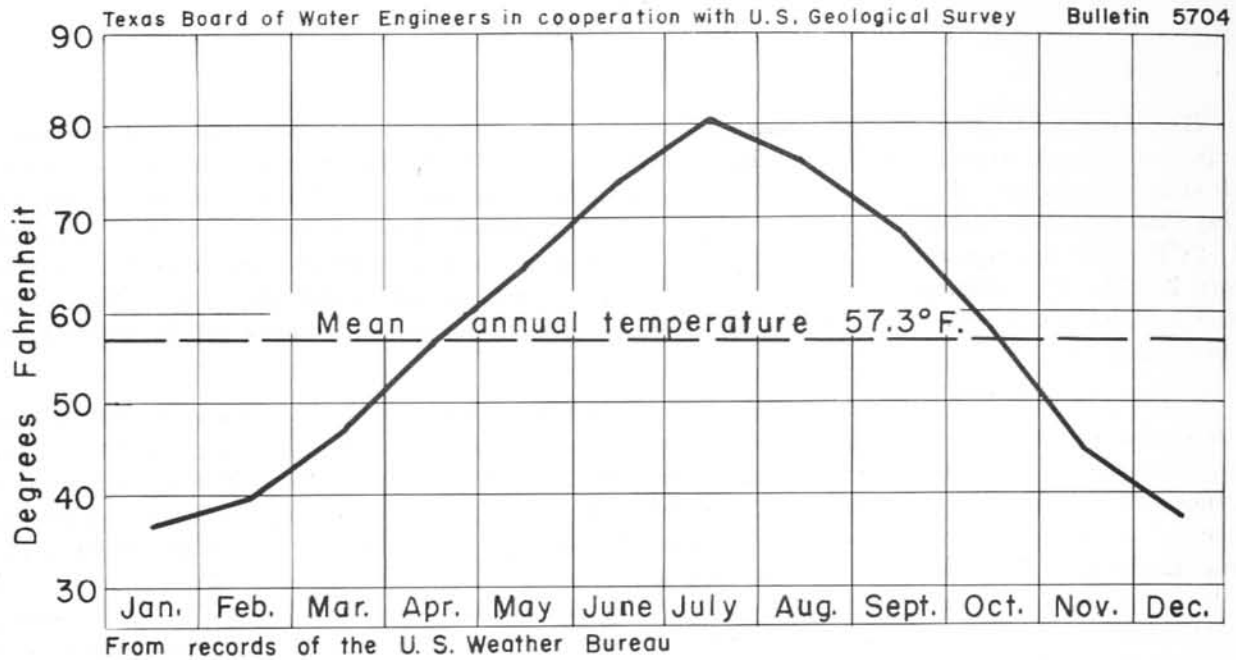
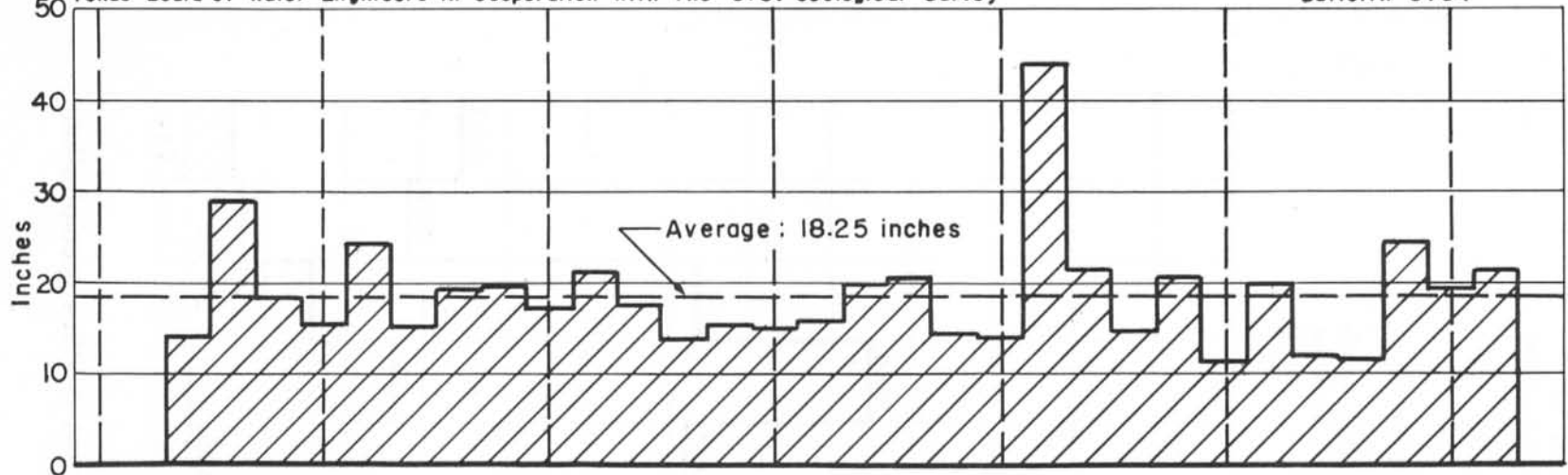
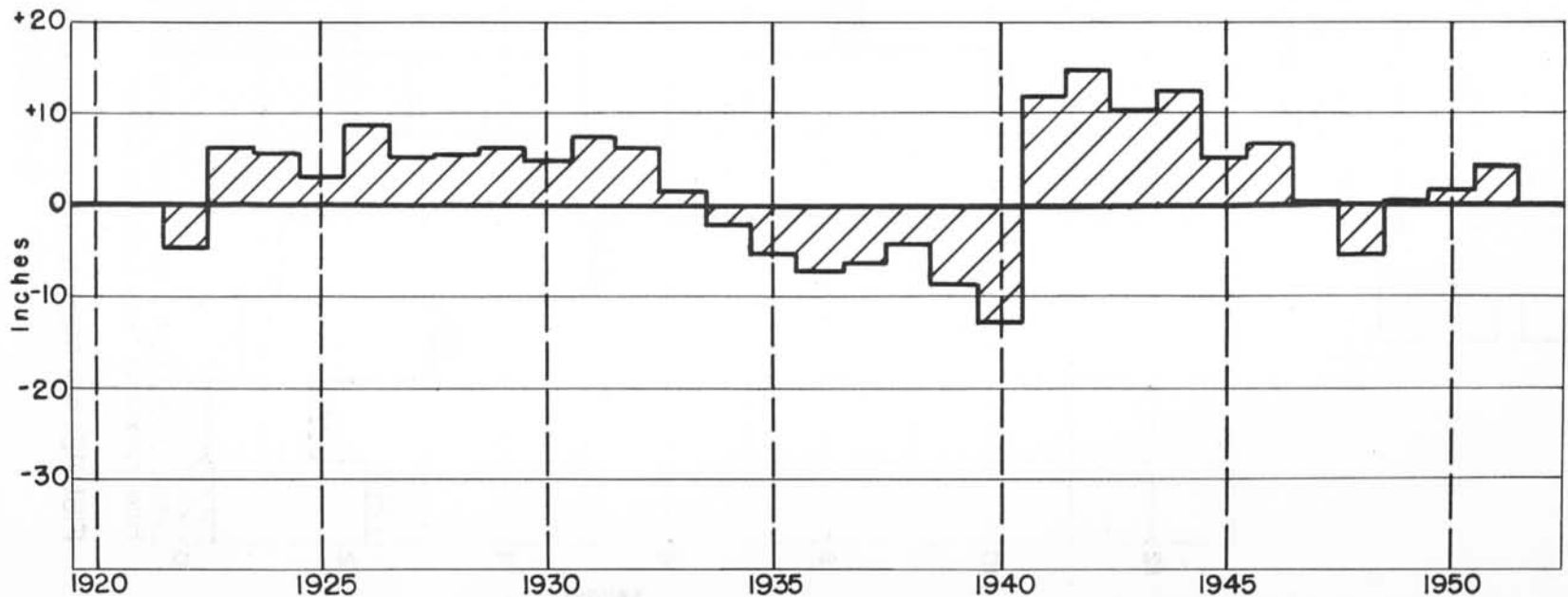


FIGURE 2.-Average monthly temperature at Muleshoe, Bailey County, and average evaporation at Lubbock, Tex.








A.- Precipitation at Muleshoe



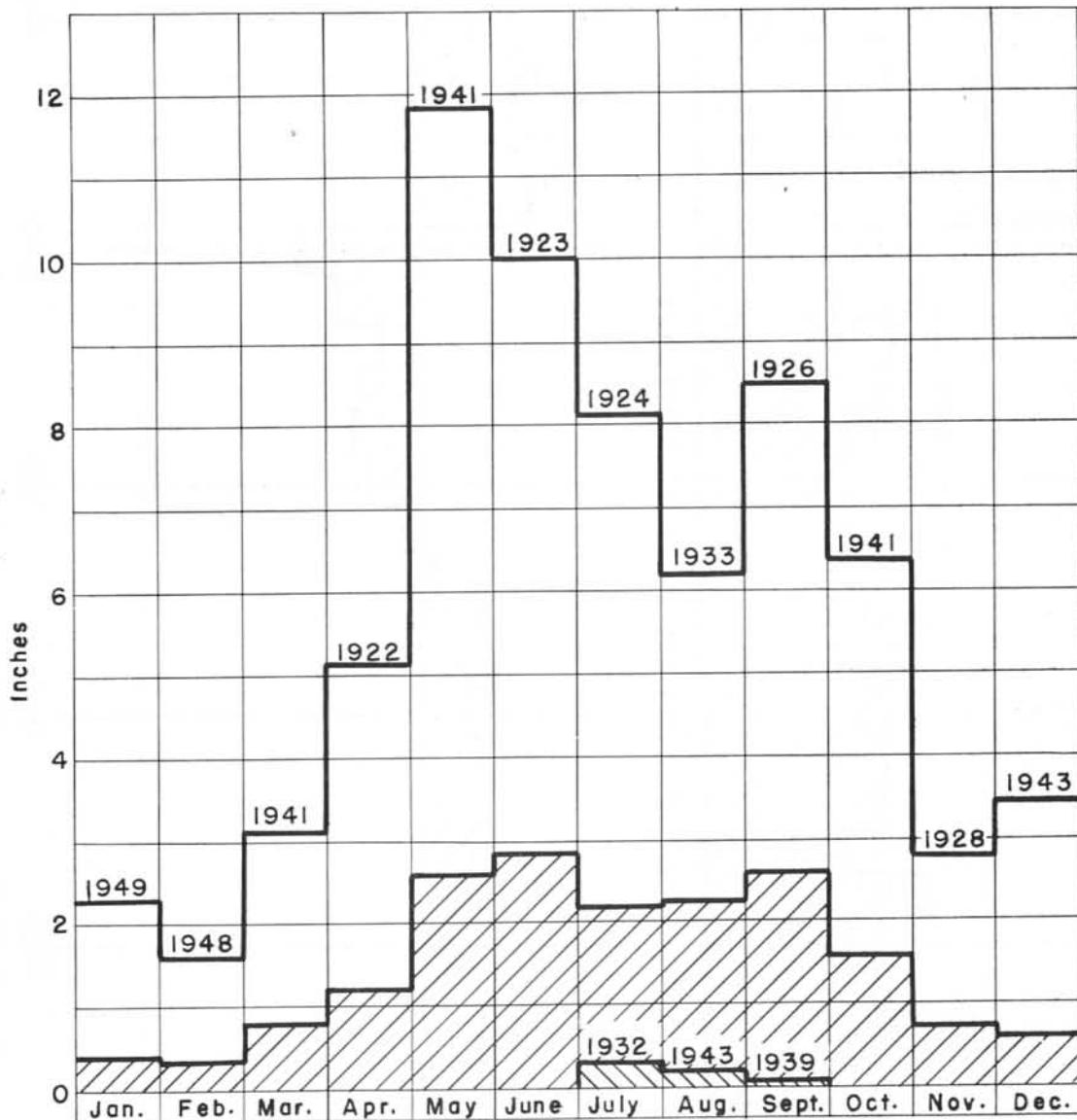
B.- Cumulative departure from normal precipitation at Muleshoe

FIGURE 3.- Precipitation and cumulative departure from normal at Muleshoe, Tex.

(From records of the U.S. Weather Bureau)

-  Maximum monthly precipitation  
(Date indicates year of maximum)
-  Mean monthly precipitation
-  Minimum monthly precipitation

Note: Dates were omitted where minimum was zero in more than one year.



From records of the U.S. Weather Bureau.

FIGURE 4. - Maximum, minimum, and average monthly precipitation at Muleshoe, Tex.

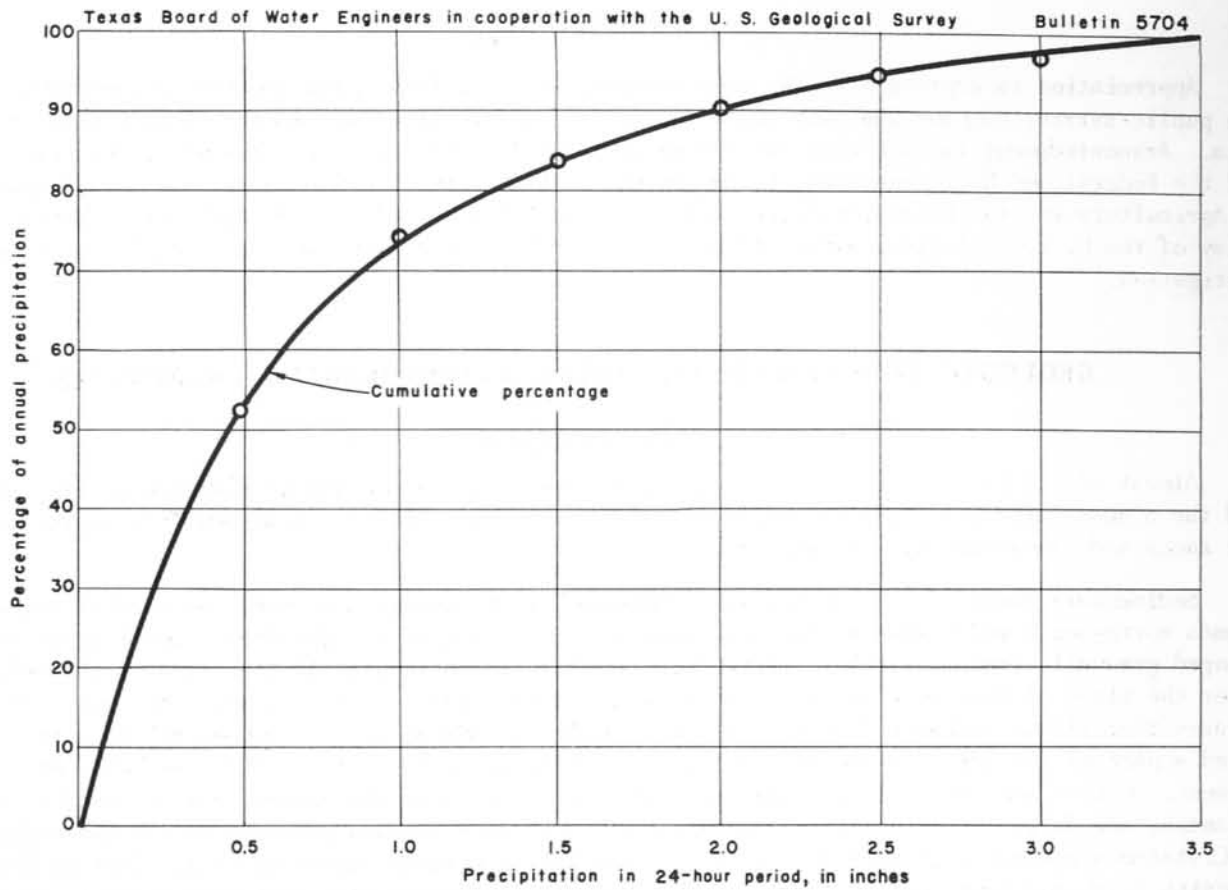


FIGURE 5. - Percentage of annual precipitation versus precipitation in 24-hour period at Muleshoe, Tex., 1922-52.

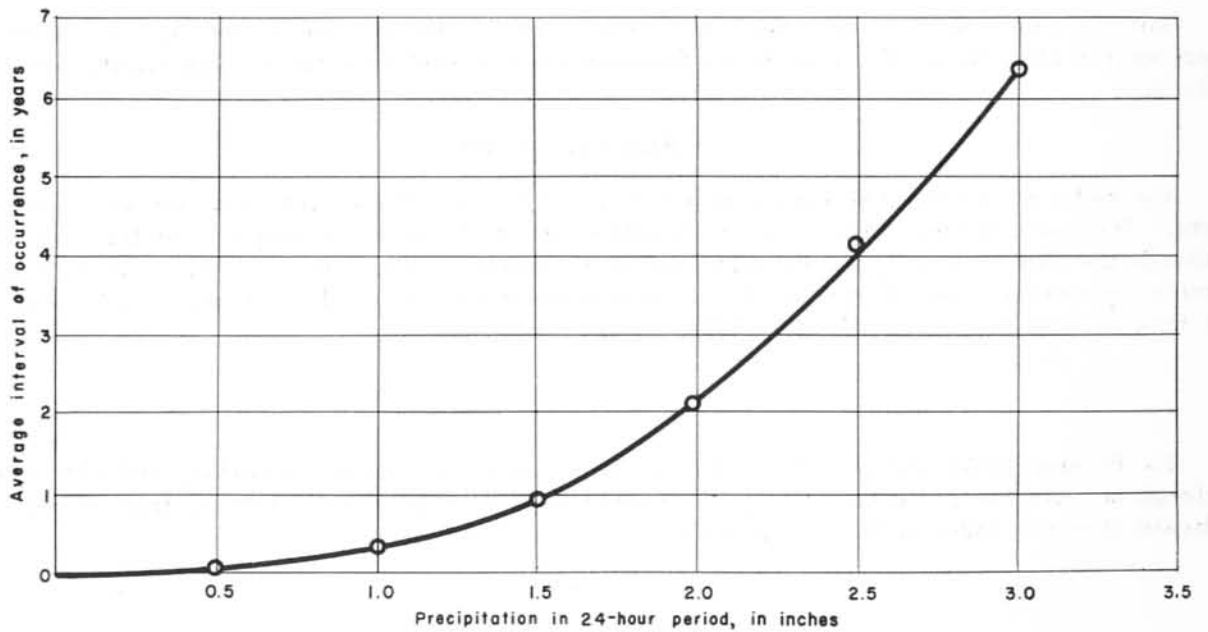


FIGURE 6.- Frequency of precipitation at Muleshoe, Tex., 1922-52.

### ACKNOWLEDGMENTS

Appreciation is expressed to the many farmers, well drillers, pump dealers, oil companies, and the public-service company who generously contributed information and cooperated in obtaining field data. Acknowledgment is made also for the information furnished by officials of the several cities and the Federal and State agencies, including the Soil Conservation Service of the U. S. Department of Agriculture and the Extension Service of the Agricultural and Mechanical College of Texas. R. W. Imlay of the U. S. Geological Survey identified several fossils which were collected during the investigation.

## GEOLOGIC FORMATIONS AND THEIR WATER-BEARING PROPERTIES

### GENERAL GEOLOGY

Almost all of Lamb County is underlain by unconsolidated sediments of Pliocene or younger age, and the oldest rocks penetrated by wells are of Permian age. The principal aquifers in the county are sands and sandstones of Pliocene age.

Sedimentary rocks of Permian age were deposited in an elongated trough, the axis of which trends north-south and passes a short distance east of Lamb County. The depositional environment changed gradually from marine in earliest Permian time to continental at the close of the period. After the close of Permian time, continental sedimentary rocks of Triassic age were deposited by streams that flowed probably from the west and northwest (Adams, 1929). Subsequent erosion removed a part of the Triassic deposits and any overlying Jurassic deposits that may have been present. Marine sediments of Cretaceous age were deposited upon the eroded Triassic surface by an advancing sea during Comanche time. Post-Cretaceous erosion removed practically all the sediments of Cretaceous age north of line A-A' (fig. 7), and left a maximum thickness of 115 feet of Cretaceous deposits south and southwest of the line. The Pliocene sediments that rest unconformably on the eroded surface of Triassic and Cretaceous rocks are of continental origin and were deposited by streams that had their headwaters in the Rocky Mountains. Sedimentary rocks of Pleistocene age occur in many of the depressions and stream valleys. Recent eolian deposits of sand and silt mantle most of Lamb County.

Geologic cross sections are shown on plates 2 and 3. The thickness, physical character, and water-bearing properties of the geologic formations penetrated in wells in Lamb County are given in table 2.

### PERMIAN SYSTEM

The rocks of the Permian system do not crop out in Lamb County but have been encountered in oil tests. The upper Permian rocks closely resemble the overlying red shales of the Triassic system, although the characteristic maroon color and mica content of the Triassic shales are rare in the Permian formations. The thickness of the Permian rocks was reported to be about 7,000 feet in an oil test drilled near Littlefield in 1954, by the Texas Co.

The Permian rocks consist of red shale, clay, sandstone, gypsum, dolomite, and limestone. Although no water wells in Lamb County have penetrated Permian rocks, electric logs of oil tests indicate that the water is highly mineralized.

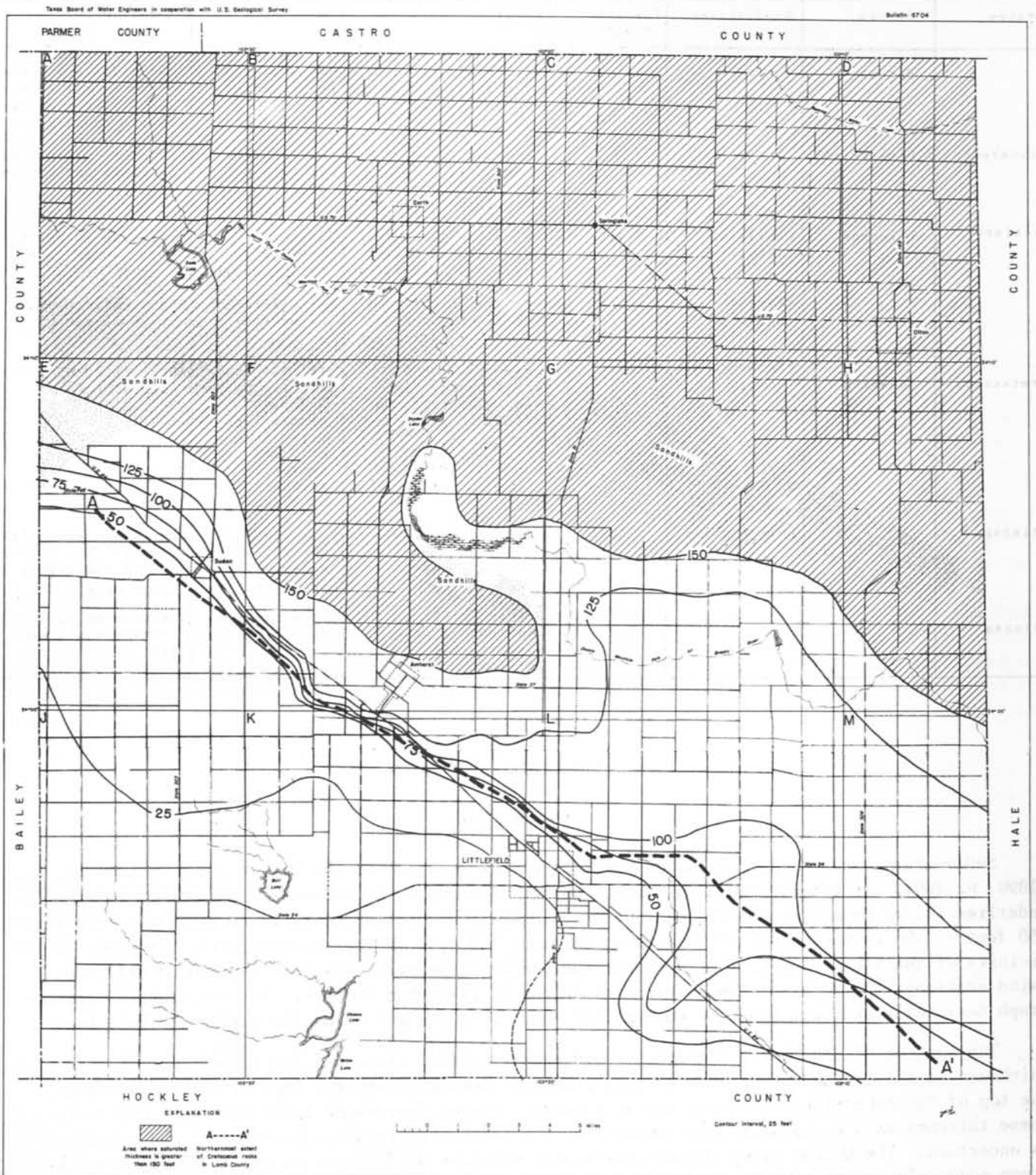


FIGURE 7.-Saturated thickness of Ogallala formation in Lamb County, Tex.

Table 2.- Geologic formations in Lamb County

System	Series	Subdivision	Thickness (feet)	Physical character	Water supply	Remarks
Quaternary	Recent	--	0- 40	Eolian sand, playa silt and clay, and channel sand and gravel	Not a source of water supply	Sand dunes and channel deposits aid recharge; playa silt and clay retard recharge
	Pleistocene	--	?	Silt, clay, sand, gravel, fresh-water limestone, and caliche	Not a source of water supply	Lie above water table in playa and stream valleys
Tertiary	Pliocene	Ogallala formation	0-250 <sup>+</sup>	Clay, silt, fine- to coarse-grained sand, gravel, and caliche	Principal aquifer in Lamb County	Decreases in thickness toward south
		Washita group	0- 15	Limestone, light-gray to yellow, and brown and yellow shale	Not a source of water	Represented by Duck Creek formation
Cretaceous	Comanche	Fredericksburg group	0-100	Limestone, blue and yellow shale, clay, sand, sandstone and gravel	Yields small quantities of moderately mineralized water from sand and gravel in southern part of county	Represented by Kiamichi formation
Triassic		Dockum group	1,500±	Variegated shale, sandy clay, and micaceous sandstone	Contains highly mineralized water so far as known	Underlies all of Lamb County. Has not been tested thoroughly for water supply.
Permian			7,000±	Red shale, clay, sandstone, gypsum, dolomite, and limestone	Contains highly mineralized water	Encountered only in tests for oil and gas

## TRIASSIC SYSTEM

## DOCKUM GROUP

Sedimentary rocks of Late Triassic age, which were assigned to the Dockum group by Cummins (1890, p. 189), are encountered in wells but do not crop out in Lamb County. The Dockum group underlies all of Lamb County and is encountered in wells at depths generally ranging from more than 250 feet in the northern part of the county to about 140 feet in the southern part. However, in the vicinity of the alkali lakes, where most of the overlying material has been removed by deflation (wind erosion), the Dockum is encountered at depths of less than 50 feet. In fact, logs of seismograph test holes indicate that the Dockum lies about 5 to 10 feet below the surface in Bull Lake.

The surface of the Dockum group has a moderately uniform slope and low relief (pl. 3). The thickness of the Dockum, as determined from drillers' logs and electric logs of oil tests using the top of the anhydrite of Permian age as a marker, ranges from about 1,340 feet to 1,660 feet. These thicknesses are somewhat questionable, as the exact stratigraphic position of the anhydrite is uncertain. The Dockum group characteristically consists of dark-red to maroon shale, grayish-green sandy clay, and gray to red micaceous sandstone.



Although the sandstones of the Dockum group have not been completely penetrated by water wells in Lamb County, electric logs of tests for oil and gas indicate the presence of water too highly mineralized for irrigation or public use. Similar information regarding the quality of water in the Dockum was obtained from several exploratory wells drilled in Floyd, Lubbock, Bailey, and Cochran Counties. The chemical analysis of a sample of water from a well drilled into the Dockum group by the city of Lubbock in 1949 showed 35,000 ppm (parts per million) of dissolved solids and 12,000 parts of chloride. The water was obtained from the Santa Rosa sandstone of the Dockum group at a depth of 900-940 feet. A well testing the sandstone in southwestern Floyd County yielded water that contained 13,700 ppm of dissolved solids and 7,320 parts of chloride. The yield of this well decreased from 250 to 150 gallons a minute (gpm) after 72 hours of pumping. An exploratory well testing the Dockum group 1 mile west of the Lamb-Bailey County line was reported to have yielded an insufficient supply of water for irrigation after a 10-minute period of pumping. The chemical analysis of a drill-stem sample of water from the Dockum group in Cochran County showed 2,070 ppm of dissolved solids and 590 parts of chloride. However, in a preliminary pumping test the well yielded only 15 gpm and had a specific capacity of 0.3 gpm per foot of drawdown.

Available data suggest that the water in the Dockum group in Lamb County is too highly mineralized for most purposes, but that the mineralization decreases toward the area of outcrop in New Mexico. The yield of the Triassic sandstones in general, is insufficient for irrigation, municipal, or industrial supplies.

## CRETACEOUS SYSTEM

### COMANCHE SERIES

Rocks of the Comanche series of Early Cretaceous age rest on the eroded surface of Triassic rocks and crop out along the western margins of Bull Lake and Illusion Lake. Logs of wells show that Cretaceous rocks are present only south and southwest of line A-A' (fig. 7). Figure 7 and plate 3 show the subsurface position of the prominent northeast-facing scarp that resulted from the removal by post-Cretaceous erosion of Cretaceous rocks north and northeast of line A-A'.

The Comanche rocks in Lamb County consist of shale, limestone, sandstone, sand, and gravel, and include rocks of the Fredericksburg and Washita groups. Logs of seismograph test holes and geologic exposures in Bull Lake indicate an aggregate thickness of about 115 feet.

### FREDERICKSBURG GROUP

The Fredericksburg group in Texas is divided into four formations, which are, in ascending order, the Walnut clay, the Comanche Peak limestone, the Edwards limestone, and the Kiamichi formation. It is believed that only the Kiamichi formation is present in Lamb County.

*Kiamichi formation.*- The Kiamichi formation crops out along the western margins of Bull Lake and Illusion Lake and is encountered in wells south and southwest of line A-A' (fig. 7) at depths ranging from 85 feet south of Amherst to 200 feet in the southeastern part of the county. The formation has a measured thickness of 99 feet in the outcrop in Bull Lake. The Kiamichi, which generally is easily identified, consists of gray to bluish-black shale, bluish-black paper shale, light-gray to brown fine- to medium-grained sandstone, light-gray nodular limestone, and sand and gravel. The shales generally are sandy or are interbedded with thin layers of flaggy sandstone.

The basal beds of the Kiamichi formation consist of coarse gravel that grades upward through a mixture of sand and gravel into a light-gray to brown coarse- to fine-grained sand and light-colored clay. The basal coarse-grained unit apparently thins in a northwest direction, as shown by reported thicknesses of 15 feet in well L-141, 10 feet in well K-11, and 6 feet in well K-2. The basal unit yields small quantities of rather highly mineralized water in the southern part of Lamb County.

The following section, measured from a point 2.5 feet above lake level on the west side of Bull Lake, includes part of both the Kiamichi formation and the Duck Creek formation of the Washita group.

	Thickness (feet)
Quaternary	
Duck Creek formation:	
12. Shale, brownish-yellow, unfossiliferous -----	6.8
11. Limestone, light-gray to yellow -----	.5
10. Shale, brownish-yellow; contains <u>Pervinquiera</u> sp. -----	8.6
Thickness of Duck Creek formation exposed -----	15.9
Kiamichi formation:	
9. Transition zone? Light-gray nodular limestone interbedded with blue-gray and buff shale; contains <u>Gryphaea corrugata</u> var. <u>tucumcarii</u> (Marcou) -----	12.6
8. Shale, bluish-black, weathers light gray -----	6.5
7. Covered -----	43.0
6. Limestone, light-gray, fossiliferous; contains <u>Exogyra texana</u> Roemer, <u>Gryphaea corrugata</u> Say, <u>Gryphaea corrugata</u> var. <u>tucumcarii</u> (Marcou), <u>Neithea texana</u> (Roemer), interbedded with shale -----	2.2
5. Shale, brown to gray, unfossiliferous, interbedded with light-gray limestone	5.8
4. Shale, limy, weathers to light-gray, interbedded with buff-colored marl and sandstone stringer -----	7.3
3. Limestone, light-gray to brown, individual beds about 1.5 to 2.5 inches thick, interbedded with bluish-black paper shale -----	4.3
2. Shale, bluish-black, interbedded with light-gray sandstone -----	7.8
1. Limestone, light-gray, overlain by marl and shale, contains <u>Gryphaea navia</u> Hall, <u>Protocardia</u> cf. <u>P. multistriata</u> Shumard, <u>Neithea</u> cf. <u>N. subalpina</u> (Bose), <u>Sphaera?</u> sp. -----	9.6
Thickness of Kiamichi formation exposed -----	99.1
Total thickness of section measured -----	115.0

#### WASHITA GROUP

Duck Creek formation. - The Washita group is represented in Lamb County by the Duck Creek formation, which crops out on the western margin of Bull Lake. At the outcrop the formation has a thickness of about 16 feet. Because of the lack of dependable well data and the indeterminate nature of the contact between the Duck Creek formation and the Kiamichi formation, it is not possible to say whether the Duck Creek is more extensively developed elsewhere in Lamb County. The Duck Creek consists of brownish-yellow shale and light-gray to yellow limestone. According to Brand (1953, p. 18), the contrast between the gray to bluish-black shale of the underlying Kiamichi formation and the lighter brownish-yellow shale of the Duck Creek formation is due to the change from a reducing environment during Kiamichi time to an oxidizing environment during Duck Creek time.

The Duck Creek formation is not a source of water supply in Lamb County.



## TERTIARY SYSTEM

## PLIOCENE SERIES

## OGALLALA FORMATION

The Ogallala formation underlies all of Lamb County except the alkali lakes, where it has been removed by deflation. It crops out along the streams and on the western margins of the large alkali lakes. North and northeast of line A-A' (fig. 7) the Ogallala rests unconformably on the eroded surface of Triassic rocks, whereas south and southwest of the line it rests unconformably on Cretaceous rocks. The progressive thinning of the Ogallala southward, due to the presence of underlying Cretaceous rocks, is shown in figure 7. Although few wells in the northern part of the county completely penetrate the Ogallala formation, available data indicate that it has a thickness of more than 250 feet. In the extreme southern part of the county, its thickness is less than 100 feet.

The Ogallala formation is composed of fine to coarse sand, gravel, silt, red and yellow clay, and caliche. The sediments in general are unconsolidated and poorly sorted. The coarse sediments are most prominent in the lower part of the formation, whereas the finer grained sediments are most prominent in the upper part. It has been reported that in the vicinity of Littlefield the sands are cemented and of relatively low permeability and yield insufficient water for public-supply wells. In other areas, however, the finer grained sands are loose and subject to caving. The looseness of the fine-grained sands is shown by the radioactivity logs of test wells drilled in the sandhills. The increase in the radioactivity of the neutron curve opposite known water-bearing sand (pl. 2) is believed to be due to an increase in diameter of the bore hole as a result of the caving of the sand. Gamma-ray logs, drillers' logs, and pumping-test data indicate that the individual beds and lenses of sand, gravel, and clay of the Ogallala formation are not continuous over wide areas, but instead generally pinch out or grade laterally and vertically into finer or coarser materials (pl. 2).

In Lamb County, as in most of the High Plains, the Ogallala formation is the principal water-bearing formation. All the wells for irrigation, industry, and public supply obtain water from the Ogallala formation, and yields as high as 2,300 gpm have been measured. The water is very hard but is used for irrigation, and for domestic, industrial, stock, and public supplies throughout most of the county. However, in several localized areas in the southwestern part of the county and south of the sandhills, the water is too highly mineralized for most uses.

## QUATERNARY SYSTEM

## PLEISTOCENE SERIES

Rocks of Pleistocene age occur in the alkali lakes, in the stream valley of the North Fork of the Double Mountain Fork of the Brazos River, and in Running Water Draw.

The lake deposits generally crop out around the margins of Bull Lake and Illusion Lake except where they have been removed by erosion or where they are overlain by Recent dune deposits. They consist of bluish-gray calcareous and gypsiferous clay, light-gray sand, gravel, thin layers of white fresh-water limestone, and caliche. They lie unconformably on Pliocene and Cretaceous deposits. The lake deposits are probably not more than 75 feet thick.

Pleistocene stream deposits, which occur as valley fill in the large drainageways, consist of sand, gravel, silt, and clay. These deposits are below the level of the surface of the plains, and therefore they overlies Pliocene deposits and in turn are overlain by sediments of Recent age, which are darker in color.

The Pleistocene sediments, in general, lie above the water table and are not a source of water in Lamb County. However, because of the porous character of the sands and their position on the floor of the stream valleys, they serve as areas of recharge during periods of streamflow.

#### RECENT SERIES

Deposits of Recent age occur as sheets of windblown material, sand dunes, and valley fill. The windblown material mantles most of Lamb County and ranges in thickness from a featheredge to approximately 15 feet. The sand dunes form a belt approximately 8 miles wide extending across the center of the county (pl. 1). They generally form a superficial covering and are made up of actively migrating dunes and older, stabilized modified dunes. The active dunes are characterized by the typical dune topography, absence of vegetation, and a light-gray color, whereas the older dunes are characterized by a lower and rolling surface and a characteristic reddish-orange color, and they are anchored by vegetation. The dunes are not of great height; few are more than 40 feet high. Around the eastern and southeastern margins of Bull Lake, Illusion Lake, and Soda Lake the sand dunes are derived from material blown out of the lakes during prolonged dry periods. They are composed chiefly of grayish sand, but partly of silt and crystals of selenite (gypsum).

The valley-fill deposits of Recent age are in the channels of the intermittent streams in Lamb County and consist of buff-colored sand and gravel. In the North Fork of the Double Mountain Fork of the Brazos River about 8 miles south of the sandhills the deposits have recently filled the stream channel, covering a number of seeps that formerly issued at the surface.

Although the sediments of Recent age generally lie above the water table and yield no water to wells in Lamb County, they serve as catchment areas for rainfall and, therefore, aid in the recharge of the underlying formations.

#### CALICHE

Caliche, a secondary concentration of calcium carbonate, underlies most of Lamb County. It forms a resistant and prominent "cap rock," cropping out around the margins of Bull Lake and Illusion Lake, and along the stream valleys. It ranges in thickness from a featheredge to about 30 feet and consists principally of calcium carbonate, bands of secondary silica, and variable amounts of sand and clay. The caliche varies from a soft white chalky or powdery material to a hard mass. In places the caliche contains channels formed by the solvent action of percolating water. In the road cut north of Soda Lake the caliche has a coarse, platy texture and is strongly fractured and distorted. The distortion and fracturing are due, presumably, to volumetric expansion resulting from the introduction of excessive quantities of secondary calcium carbonate (West Texas Geol. Soc. and New Mexico Geol. Soc. 1949, p. 79). The caliche probably ranges in age from late Pliocene to Recent.

The caliche generally lies above the water table and, therefore, usually is not a source of water supply, in fact in some places the caliche impedes natural recharge because of its low permeability. According to Broadhurst (1938, p. 24), however, the caliche along the highway between Earth and the Bailey County line contained water. Since 1938 heavy withdrawal of ground water by pumping for irrigation has lowered the water table below the caliche in a part of this area.

#### GROUND WATER

##### OCCURRENCE

The amount of water that can be stored in rocks depends upon the pore spaces or voids. These voids range in size from very small pores in clay and silt to the large solution channels developed in caliche. The percentage of the total volume of the rock occupied by the voids determines the porosity of the rock. The size, shape, and arrangement of the openings determine the permeability of the rock, which is defined as the capacity of the rock to transmit water under hydraulic head.

Ground water moves slowly through the pore spaces in the rocks under the influence of gravity until it is discharged through wells, by seepage into streams, by evaporation and transpiration in stream valleys and ponds, or by subsurface movement from the county. The velocity at which the water moves is dependent in part on the hydraulic gradient or slope of the water table which, in Lamb County, conforms in general to the southeastward-sloping land surface. Although the slope of the water table varies from place to place, owing to the topography and local variations of recharge or discharge, the average slope is about 10 feet to the mile. Taking into consideration both the permeability and the porosity the normal rate of ground-water movement is estimated to be somewhat less than 200 feet a year.

Ground water in Lamb County is obtained from the sand and gravel of the Ogallala formation, the partly cemented basal sand and gravel of the Cretaceous rocks, and the caliche. The water in the Ogallala formation, which is the principal aquifer in Lamb County, is generally unconfined (under water-table conditions). However, owing to the lenticular character of the Ogallala, the water locally may be under sufficient hydrostatic pressure to rise in the well a short distance above the top of the water-bearing bed.

## RECHARGE

### NATURAL RECHARGE

The source of the ground water in Lamb County is precipitation within the county and in areas of the High Plains to the northwest. Most of the precipitation is lost through evaporation and transpiration by crops and shrubs, but a small part of that which enters the soil moves downward past the root zone to recharge the underground reservoirs by direct infiltration. Some of the precipitation runs off into streams and ponds and a part of this also seeps down to the water table eventually.

The rate and amount of recharge are difficult to determine, owing to wide variations in, as well as lack of information on, the permeability and storage capacity of the rocks from place to place, the amount and intensity of rainfall, and the rates of evaporation and transpiration. However, studies on the High Plains (Theis, Burleigh, and Waite, 1935, p. 2; White, Broadhurst, and Lang, 1946) indicate that, of the average annual precipitation of about 18 inches, only a small fraction of an inch recharges the underground reservoir.

The principal areas of infiltration are the sandy soils of the shallow-water area (grid A, pl. 1), sand dunes, depression ponds, and streams. Although the surficial deposits that mantle the county are sandy, the depth to water is generally fairly great and most of the precipitation that falls as light rains is held by the soil and later evaporated or transpired. Recharge by direct infiltration through the soil zone is limited to periods of exceptionally heavy precipitation. Such recharge is shown by the large rise of water levels in wells in grid A during 1941 and 1942. During that time about 65 inches of precipitation fell in Muleshoe, causing an average net rise of water level of about 8 feet in 9 observation wells. During the same period, however, water levels rose considerably less in the northeastern part of the county, where the soil is tighter and the depth to water greater.

The most favorable area for recharge in Lamb County is in the sandhills extending east-west across the north-central part of the county. Because of the high porosity and permeability of the sand dunes, nearly all the precipitation that falls in the dune area is rapidly absorbed, and consequently little or no surface drainage has been developed. In places the downward movement of water is probably hindered somewhat by the less permeable caliche layer underlying the sandhills. However, the caliche may contain solution channels that permit the fairly rapid movement of water down to the water table.

The average annual recharge in the sandhill area is not known. Figure 8 shows, however, the effect of recharge after the heavy rainfall in 1941, when about 44 inches of precipitation fell at Muleshoe. As a result of this rainfall, water levels in the sandhill area showed a considerable rise, reaching a maximum of 6 feet in well F-13.

Shallow depressions or sinks, ranging in depth from a few feet to more than 50 feet and in diameter from a few hundred feet to a mile or more, are common in Lamb County. They average nearly one per square mile. Storm water that collects in these basins after heavy rains forms temporary lakes, which in the southern part of the county may disappear in a short time, or in the northern part of the county may remain for months. Auger-hole records obtained by Broadhurst (1938) in Lamb County, and studies made by White, Broadhurst, and Lang (1946) in other areas on the High Plains, showed that in some depressions little or no caliche is present, in others relatively soft caliche is found, and in still others very dense caliche is encountered. The bottoms of most of the depressions in Lamb County are covered with deposits of silt and clay which are extensively fractured by desiccation cracks. The cracks provide a passage for the rapid initial downward movement of water, but continued percolation is slowed or stopped as the clay swells, sealing the cracks.

Water-level measurements in wells in depression ponds, or nearby wells, in other areas on the High Plains indicate that a substantial part of the recharge to the underground reservoir is derived from the infiltration of water that collects in the depressions. For example, the water-level measurements obtained from automatic water-stage recorders on two wells in Floyd County, where conditions are similar to those in Lamb County, showed rapid response to the recharge from water accumulated in the depression after heavy rains in July 1950. The water levels continued to rise for more than a year as additional runoff accumulated in the pond. The resulting local mound on the water table was not fully dissipated by lateral movement of the water until October 1951.

Recharge of the ground-water reservoir from streamflow is small during periods of normal rainfall, owing to the small drainage area of the streams. After exceptionally heavy rains, however, the intermittent streams in Lamb County carry large quantities of water, of which much is lost by downward percolation to the water table before reaching the county line. Local residents reported that after the heavy rains in 1941 water in the North Fork of the Double Mountain Fork of the Brazos River flowed across the highway south of Earth, but did not flow completely across the sandhills. Although a large part of the water was lost to the ground-water reservoir during its flow through the sandhills, a part of the water was able to reach the area north of the sandhills and percolate down through the stream bed there.

#### ARTIFICIAL RECHARGE

In the past few years several attempts have been made in the High Plains to increase the rate of recharge by artificial means, and to reduce the amount of water lost from the depression ponds through evaporation. The three methods tried in Lamb County include the single-purpose drainage well, the dual-purpose well, and the drainage trench.

In 1951 the city of Littlefield drilled a well to drain the city part of accumulated storm runoff. The well, 93 feet deep, was cased and filled with sand and gravel to filter the water before it entered the aquifer. Although the well has not been thoroughly tested, results of similar experiments in other parts of the High Plains indicate that wells of this type soon become clogged with silt.

An effort to remedy the silting problem of the single-purpose drainage well resulted in the development of the dual-purpose well. Well G-191 was drilled in 1951 to a depth of 180 feet. It is a 16-inch well with a dual-purpose pump, which can pump water through a closed pipe system for irrigation during dry periods, and can also pump out the sediment deposited on the well face by the injected pond water. The pond water is injected by gravity flow down the annular space between the pump column and casing. Owing to the lack of sufficient pond water during 1951 and 1952, the



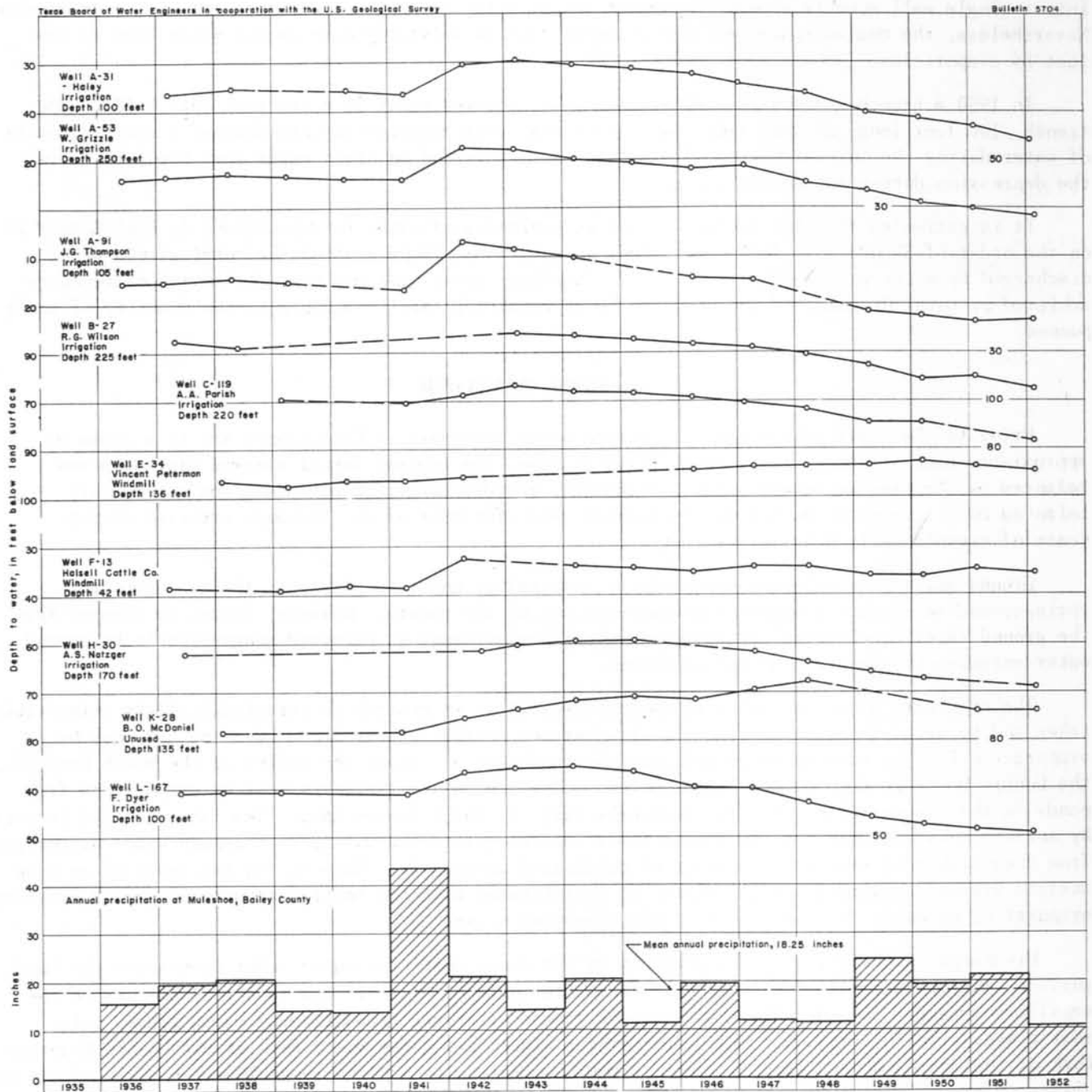


FIGURE 8.-Hydrographs of 10 observation wells in Lamb County and precipitation at Muleshoe, Tex.

success of this dual-purpose well has not been determined. It is probable, however, that one of the larger depressions—that is, one containing more than about 40 acre-feet of water—cannot be drained into a single well quickly enough to prevent the drowning of crops in a large part of the depression. Nevertheless, the dual-purpose well may be successful in salvaging some of the water that is now lost by evaporation.

In 1950 a trench was dug in a depression which covered about 20 acres near well C-190. The trench, 100 feet long, 50 feet wide, and 6 feet deep, was reported to have drained a small quantity of water during the initial period of drainage, but it failed to drain water that accumulated in the depression during subsequent rains.

It is estimated that the average annual accumulation of water in depressions in Lamb County is on the order of 30,000 acre-feet, equivalent to only about 15 percent of the total ground water discharged by wells in Lamb County in 1950. Therefore it is apparent that the amount of recharge achieved by total drainage of the ponds would be relatively small compared to the quantity of water pumped.

#### NATURAL DISCHARGE

Prior to the start of pumping, the ground-water reservoir in Lamb County was in a state of approximate equilibrium. Over a long period of time, the average annual natural discharge was balanced by the average annual natural recharge. The discharge, however, was not necessarily balanced by the recharge during any particular year, for most of the recharge occurred during years of exceptionally heavy precipitation.

Ground water is discharged naturally by evaporation and transpiration, through seeps and springs, and subsurface movement southeastward out of the county. However, it may be assumed that the ground water discharging naturally by subsurface movement is balanced approximately by ground water entering the county from the northwest.

The discharge of ground water by evapotranspiration in general is restricted to the water-table lakes and to areas where the water table is near the surface of the land. Most of the loss by evaporation is from such areas in and near the sandhills and along the valley of the North Fork of the Double Mountain Fork of the Brazos River. Some ground water also is lost by evaporation from ponds in the stream valley and from Bull Lake (fig. 9) and Illusion Lake. The lakes are fed in part by surface runoff and in part by ground water, and therefore the quantity of ground water discharged from these lakes by evaporation cannot be determined accurately. However, on the basis of an open surface area of approximately 500 acres, it is estimated that the total discharge of ground water by evaporation probably does not exceed 2,500 acre-feet a year.

Discharge by transpiration is greatest in the areas where the water table intersects the land surface, where the capillary fringe extends to the surface, or where the root zone extends to the capillary fringe. Considerable quantities of ground water are transpired by marsh grass, tule, salt grass, alfalfa, and other plants in several places along the North Fork of the Double Mountain Fork of the Brazos River, from the Bailey-Lamb County line to a point about 15 miles south of the sandhills. A comparison of the acreage covered by these plants during the summers of 1939 and 1950 indicates that the loss of ground water by transpiration in the eastern part of the stream valley decreased owing to a decline in the water table below the limits of root penetration.

The quantity of water used by plants varies according to the species and the density of growth. White, Broadhurst, and Lang (1946, p. 391) estimated that marsh grass and sedges use the most water per acre, and that they are followed in order by subirrigated alfalfa, salt grass, and meadow grass. The annual consumption of water per acre by these plants was estimated to range from 0.5 acre-foot to 3 acre-feet. It is estimated that the consumption of ground water by plants in Lamb County is about 2,000 acre-feet a year; thus, the total natural discharge by evapotranspiration probably is about 4,500 acre-feet a year.



FIGURE 9.- Bull Lake, Lamb County, Tex., showing caliche and rocks of Cretaceous age in foreground.

In addition to those along the North Fork, springs occur in the large lakes where the land surface intersects the water table. Bull Lake and Illusion Lake are fed in part by such springs. The yields of the springs are not large enough to be measured, and most of the ground-water flow into the lakes probably takes place through the underlying Quaternary lake sediments rather than through springs appearing at the surface.

Springs form small pools and ponds in the stream valley of the North Fork of the Double Mountain Fork of the Brazos River from the sandhills to a point about 7 miles south of the sandhills. Although the discharge from any one spring is too small to be measured, the aggregate discharge from a group of springs at times results in surface flow. In May 1952, the flow of a group of springs (F-145) was about 75 gpm; in August and in November 1952, no streamflow was observed, although most of the ponds formed by the springs were still present. Some of the water discharged from the ground-water reservoir by springs during the winter and spring months, when evaporation is low, re-enters the ground before it reaches the Lamb-Hale County line. Thus, such water is not actually part of the ground water that is lost by natural discharge in Lamb County.

#### DEVELOPMENT

The early ranchers in Lamb County obtained water from the springs and water-table ponds. Prior to 1913, ground water was used only for stock and domestic needs. The first irrigation well of record (well A-37) was drilled in 1913 in the northwestern part of the county. The early wells, many of which were hand dug, were shallow and used low-speed centrifugal pumps powered by oil-burning units. The development of ground water for irrigation was only moderately successful because of the high operating costs and low efficiencies of the pumps and powerplants. During the 25-year period 1913 to 1937, inclusive, about 75 wells were drilled, most of which were in the northwestern and southeastern parts of the county. From 1938 to 1946, inclusive, the number of irrigation wells increased slowly but steadily (fig. 10), owing to the introduction of high-speed deep-well turbine pumps powered by small automobile engines with direct drive. Since 1947, however, the number of wells in operation has more than doubled, and the total number of irrigation wells as of the end of 1950 was about 1,700. It is estimated that during the 2-year period 1951-52 approximately 250 additional wells were drilled.

The use of ground water in Lamb County has increased each year since 1938, except 1941, 1942, and 1949 when rainfall was above normal and irrigation requirements were light. It is estimated that in 1938 approximately 17,000 acre-feet of water was pumped for irrigation, as compared to 200,000 acre-feet in 1950 (table 3).

Table 3.- Irrigation wells in Lamb County

Year	Number of wells	Pumpage, in acre-feet	Acres irrigated
1947	900	115,000	110,000
1948	1,250	155,000	150,000
1949	1,475	145,000	180,000
1950	1,700	200,000	210,000
1951	1,825	210,000	220,000
1952	1,950	300,000	230,000



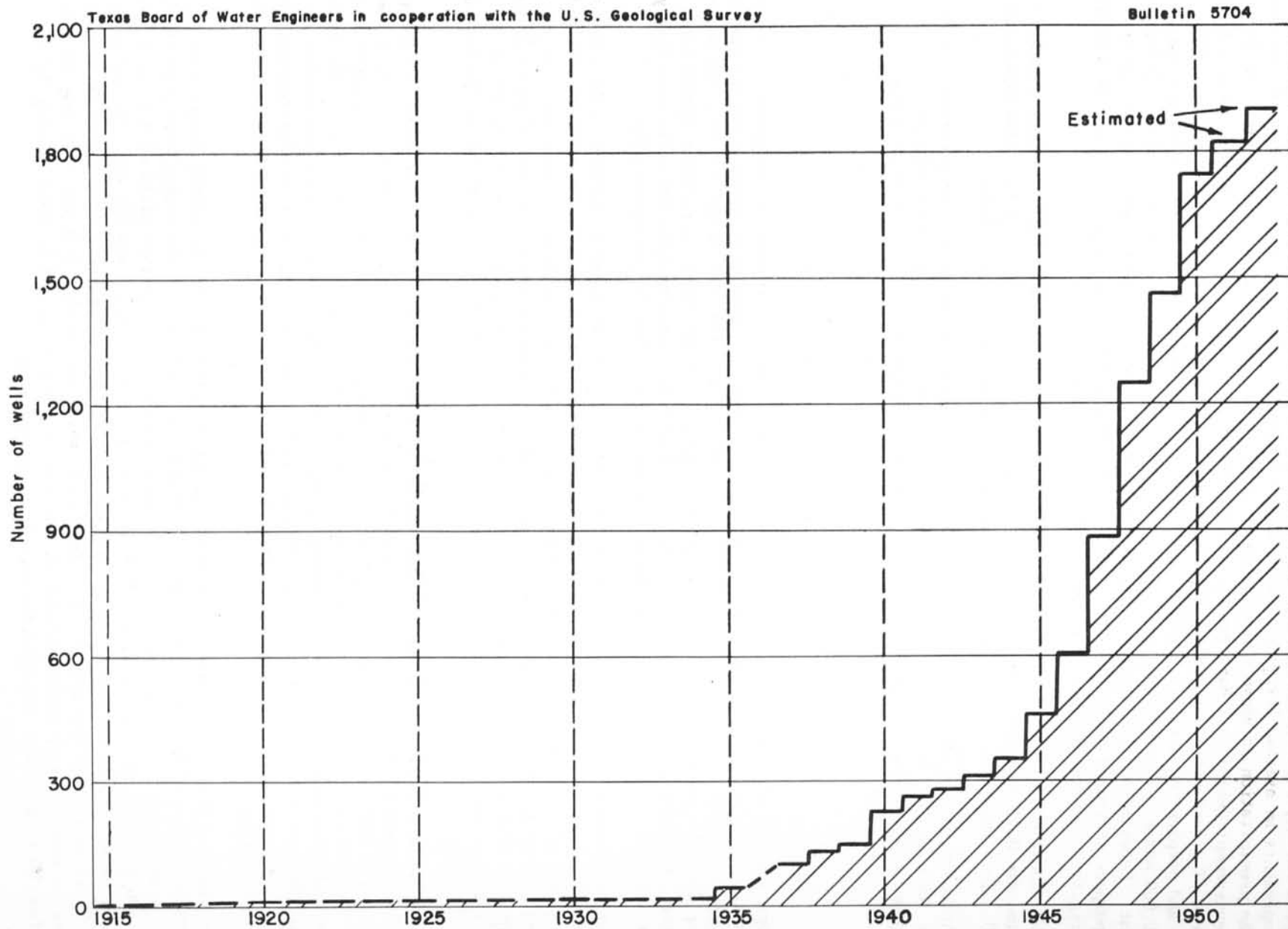


FIGURE 10.-Approximate number of irrigation wells in operation in Lamb County, 1915-52.

Approximately 120 acre-feet of water per well is pumped for irrigation during an average year. This represents an average irrigation requirement of about 1.0 foot per acre. However, during years when the precipitation is above normal or is distributed unusually well for crop growth, the irrigation requirement decreases. For example, during 1948, when rainfall was below normal, about 155,000 acre-feet of ground water was pumped for 150,000 acres, whereas in 1949, when rainfall was above normal and preplanting moisture was high, only about 145,000 acre-feet of ground water was pumped for 180,000 acres. This represents a decrease in the irrigation requirement from about 1.0 foot to 0.8 foot. Because rainfall was below normal during 1952, when 10.44 inches was recorded, ground-water pumpage increased by 90,000 acre-feet over the 210,000 acre-feet pumped in 1951. As a result, the irrigation requirement increased from 0.9 foot to 1.5 feet.

The annual use of ground water for domestic, industrial, and public supply in Lamb County is approximately 0.13 acre-foot per capita, or approximately 2,600 acre-feet for the total population in 1950. This represents less than 2 percent of the total pumpage in the county.

The county may be divided conveniently into three distinct areas based upon prominent physiographic features; the northern part of the county, the southern part, and the sandhills. The development and hydrologic properties of the ground-water reservoir in each of these areas are discussed briefly below.

#### NORTHERN PART OF THE COUNTY

Approximately 40 percent of the wells used for irrigation in 1950 were in the northern part of the county, which includes all the area north of the sandhills. Broadhurst (1938) reported that 47 wells were in operation in the area in 1937. Of these, 32 were near the sandhills where the depth to water was relatively shallow. As more efficient pumps were developed, irrigation spread northward where the depth to water is greater. By the end of 1950, approximately 700 wells were fairly uniformly distributed over the area, averaging approximately 2.3 wells per square mile.

Figure 11 shows the depth to water in wells in October 1951 by means of isobath lines (lines of equal depth to water). The depth to water ranges from more than 100 feet in the north-central and eastern parts of the area to less than 15 feet in the western part, although in most wells it ranges from about 80 to 100 feet. The slope of the water table is southeastward at a rate of about 10 feet per mile. In grid A, where the depth to water is slight, the wells range in depth from 65 to 250 feet and average about 140 feet, whereas in grid D the wells range in depth from 160 to 300 feet and average 210 feet.

The saturated thickness of the Ogallala formation in the northern part of the county is shown in figure 7. In general, the saturated thickness is fairly uniform, though it decreases slightly toward the east. Few wells penetrate the entire thickness of the Ogallala and therefore the maximum thickness of the saturated part of the formation is not known. Well B-47 entered the Triassic red beds at 225 feet and penetrated 136 feet of saturated material. Well A-53, however, which was drilled to a depth of 250 feet without encountering the Triassic rocks, penetrated 226 feet of saturated material. It is believed that the latter figure is about the maximum saturated thickness of the Ogallala formation in Lamb County.

The measured yields of 53 irrigation wells in the northern part of the county ranged from 515 to 2,240 gpm and averaged 980 gpm. The largest discharges in that part of the county were obtained from wells in grid A, and in general the yields decreased eastward. The average yield of 8 wells in grid A was 1,390 gpm, and the average yield of 45 wells in grids B, C, and D was 900 gpm. The specific capacities (discharge in gallons a minute per foot of drawdown) of 17 wells ranged from 79 in well A-87 to 27 in well C-124 and averaged 46. In grid A, where the pumping lift was less than 60 feet, the specific capacities of wells averaged 62, whereas in grids B, C, and D, where pumping lifts ranged from 90 to 135 feet, the specific capacities averaged 40.

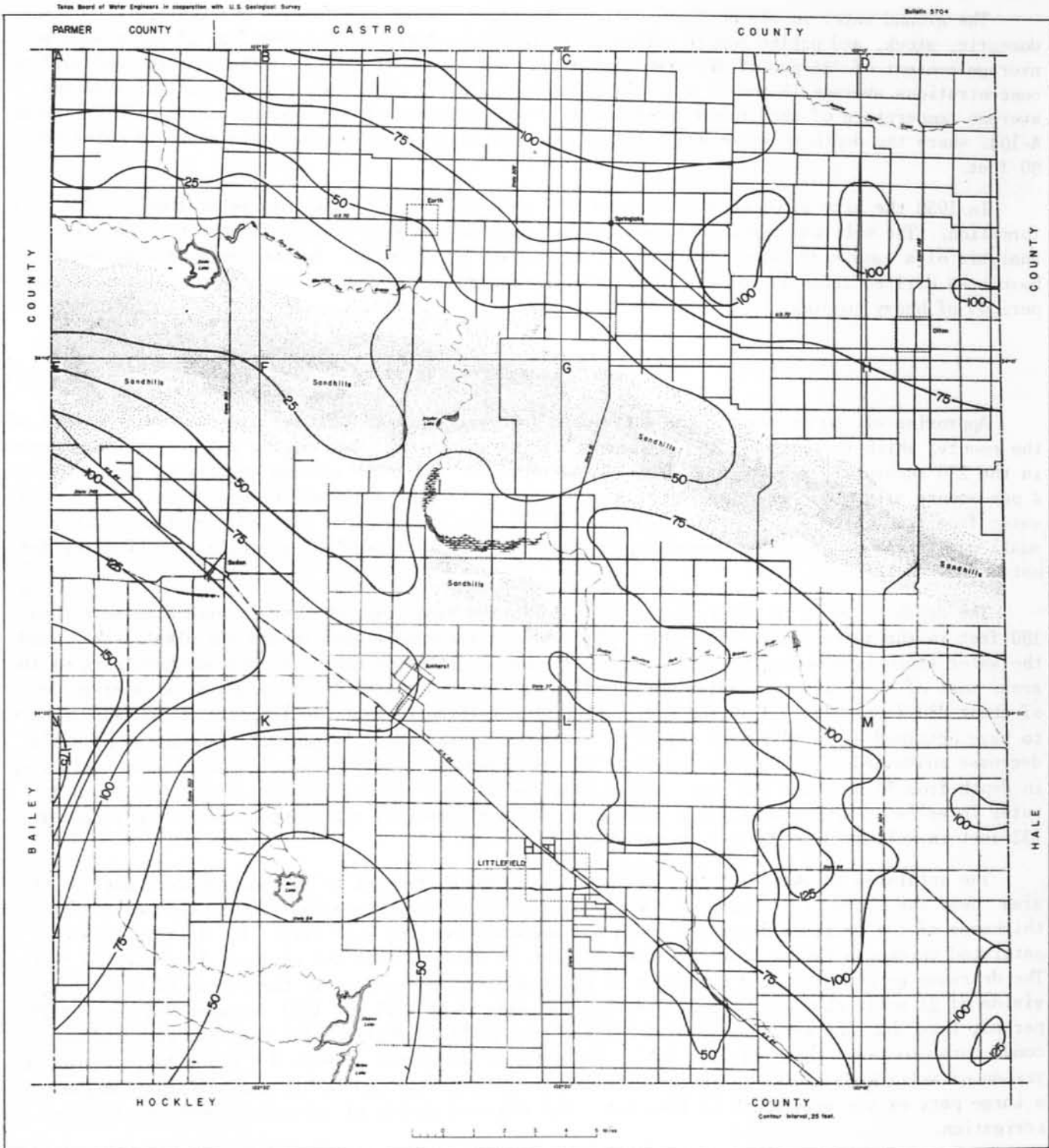


FIGURE II.—Depth to water in Lamb County, October 1951.

The ground water in the northern part of the county is of satisfactory quality for irrigation, domestic, stock, and public supply, although it is hard. Analyses of water from 23 wells show an average content of 336 ppm of dissolved solids and a hardness of 236 ppm. The chloride and sulfate concentrations average 19 and 32 ppm. In 14 wells uniformly distributed throughout the area the average temperature of the ground water was 63°F and the range of temperature was from 59°F in well A-104, where the depth to water was 5.5 feet, to 64°F in well D-132, where the depth to water was 80 feet.

In 1950 the city of Olton was supplied from well D-232, which obtained water from the Ogallala formation. The well was reported to be 200 feet deep and to have yielded 250 gpm in 1946. The analysis of a sample of water from well D-232 is given in table 11. Another well is reported to have been drilled recently to meet the increasing demand on the public water-supply system during periods of heavy pumping.

#### SOUTHERN PART OF THE COUNTY

Approximately 60 percent of the wells used for irrigation in 1950 were in the southern part of the county, which includes all the area south of the sandhills. Most of the wells were concentrated in the 230 square miles northeast of line A-A' (fig. 7) and their average density in this area was 4 per square mile. On January 1, 1951, about 1,000 wells were equipped for operation and all drew water from the Ogallala formation. Several wells in the southwestern part of the area obtained small quantities of water for domestic purposes from the basal sand and gravel of the Kiamichi formation.

The depth to water in wells in the Ogallala ranges from about 40 feet in grid E to more than 180 feet in the western part of grid J. The depth to water decreases toward the alkali lakes, and the water table intersects the surface at Bull Lake and Illusion Lake. In the northern part of the area, most of the irrigation wells were drilled to the red beds of Triassic age at an average depth of about 230 feet. Wells J-10 and K-67, which were drilled to test the Triassic rocks, were reported to have obtained an insufficient supply of water for irrigation. In general, the depths of wells decrease southward. In the area underlain by Cretaceous sedimentary rocks, however, the wells range in depth from 80 to about 600 feet, though most are between 120 and 150 feet deep. The depth to water in wells obtaining water from the basal sand and gravel of the Kiamichi formation ranges from 233 feet in well J-23 to 20 feet in well K-84.

The saturated thickness of the Ogallala formation is greatest in the northwestern part of the area, near the sandhills. Owing to the presence of underlying Cretaceous rocks, the saturated thickness of the Ogallala decreases south and southwest of line A-A' (fig. 7). In this area the saturated thickness ranges from less than 25 feet to about 80 feet and averages less than 50 feet. The decrease in the saturated thickness is accompanied by a decrease in the yields of wells. The yields of 21 wells that were measured during the summers of 1951 and 1952 averaged 755 gpm, or 23 percent less than the average yield of wells north of the sandhills. The decrease in yield becomes more prominent south of line A-A'. For example, the yield of well H-9 was 1,260 gpm, but the yields of wells K-56 and K-58, in the area underlain by Cretaceous rocks, were 151 and 136 gpm. In a large part of the area south of line A-A', the reported yields of wells have been insufficient for irrigation.

The quality of ground water in the area south of the sandhills is generally suitable for most purposes. However, the chemical analyses of water from 57 wells show that the ground water is highly mineralized near the alkali lakes and in a localized area in grids G and L.

In the southwestern part of the county (grids J and K), the quality of the ground water is affected by the presence of Bull and Illusion Lakes (fig. 9), which are bottomed below the water table in the Ogallala formation. These alkali lakes are fed in part by surface runoff from a large drainage area, and in part by springs that issue from the Ogallala; thus they contain water except during prolonged periods of drought. There is no surface drainage from the alkali lakes, and therefore the concentration of mineral matter in the water is increased by evaporation, and during very dry periods salts are precipitated. An analysis of a sample of water from Bull Lake (K-87) shows 19,000 ppm of dissolved solids, 3,860 parts of sulfate, and 8,500 parts of chloride. During periods of heavy rainfall, the salts that have been precipitated previously in the basin are redissolved and carried back into the Ogallala.

Analyses of water from wells K-82 to K-85, which draw from the Cretaceous rocks north of Bull Lake, indicate a high degree of mineralization. These analyses show an average of 2,830 ppm of dissolved solids, 1,140 parts of sulfate, and 630 parts of chloride. It is probable that the highly mineralized water north of Bull Lake is from the basal sands of the Cretaceous, in which there is less circulation of water than in the Ogallala. In contrast to the alkali lakes, the more numerous shallower basins are bottomed above the water table and serve as areas of ground-water recharge. The water that is added to the reservoir through these depressions is less mineralized than the average ground water in the Ogallala formation.

Highly mineralized water occurs in a localized area in grids G and L, about 2 miles south of the North Fork of the Double Mountain Fork of the Brazos River. This mineralization is the result of the concentration of mineral content by evaporation of water from the area of springs shown in plate 1. The analysis of a sample of water from this area (fig. 12) showed 2,840 ppm dissolved solids, 1,130 parts of sulfate, and 470 parts of chloride. The water remains as spring flow for only a short time before it returns to the ground-water reservoir and moves down the gradient. The analyses of water from two wells (L-8 and L-15) showed an average of 3,920 ppm of dissolved solids, 1,720 parts of sulfate, and 740 parts of chloride. Part of the dissolved mineral content of the ground water in this area may be due to the movement of water from an area of springs that formerly were in the North Fork of the Double Mountain Fork of the Brazos River east of the present area of springs, but that have disappeared recently owing to a general lowering of the water table.

In 1951 the city of Littlefield was supplied from five wells (L-105, L-135, L-138-40), which obtained water from the Ogallala formation. The wells ranged from 130 to 240 feet in depth and were reported to yield 400 to 600 gpm when drilled.

The annual pumpage from the municipal wells during the 10 years 1942 to 1951, inclusive is given in table 4.

Table 4.- Annual pumpage for the city of Littlefield, 1942-51

Calendar year	Pumpage (millions of gallons)
1942	105.4
1943	131.0
1944	131.5
1945	143.1
1946	174.1
1947	217.2
1948	238.8
1949	228.1
1950	275.3
1951	339.1





FIGURE 12.- Springs in valley of North Fork of  
Double Mountain Fork of Brazos River.

The results of analyses of composite samples of water from wells L-139 and L-140 are given in table 5.

Table 5.- Chemical analyses of water from Littlefield municipal wells (composite samples from wells L-139 and L-140)

	October 6, 1937 (ppm)	March 1, 1945 (ppm)
Silica (SiO <sub>2</sub> )	--	42
Iron (Fe)	--	.04
Calcium (Ca)	61	62
Magnesium (Mg)	41	39
Sodium and potassium (Na + K)	60	60
Bicarbonate (HCO <sub>3</sub> )	310	303
Sulfate (SO <sub>4</sub> )	81	77
Chloride (Cl)	74	69
Fluoride (F)	--	2.0
Nitrate (NO <sub>3</sub> )	--	1.8
Dissolved solids	--	502
Hardness as CaCO <sub>3</sub>	321	315
pH	--	7.7

The cities of Amherst and Sudan obtain water from 2 and 5 wells, respectively, which tap the Ogallala formation. The saturated thickness of the Ogallala at Amherst is considerably greater than at Sudan. The yields of the wells vary correspondingly, averaging 250 gpm at Amherst and 40 gpm at Sudan. The average daily pumpage reported in 1948 was 150,000 gallons at Amherst and 100,000 gallons at Sudan. The results of analyses of water from wells at these two cities are given in table 11.

#### SANDHILLS

The sandhills cover an area of about 150 square miles (pl. 1) extending in a belt across the northern part of Lamb County. Because of the sandy soil and dune topography (fig. 13), the area is generally unsuitable for agricultural purposes except the raising of livestock. Since June 1952, however, an increasing amount of ground water has been withdrawn for the electrical generating plant south of Earth.

The depth to water in wells ranges from about 8 feet in the western part of the sandhills to 71 feet in the eastern part. However, where the North Fork of the Double Mountain Fork of the Brazos River has cut through the sandhills, the stream channel intersects the water table to form water-table ponds such as Snyder Lake. In the western part of the sandhills, wind action has formed shallow depressions which expose the water table during periods of low evaporation.

Most of the wells in the sandhills supply water for stock and do not completely penetrate the saturated thickness of the Ogallala formation. The logs of 12 test wells and 6 industrial wells in grids B and F indicate that the saturated thickness is about 175 feet; but it is believed that the saturated thickness decreases eastward. The slope of the water table and, consequently, the direction of movement of the ground water are, in general, southeastward, but irregularities occur in localized areas. Plate 2 shows a mound on the water table at well B-165, which possibly indicates recharge to the ground-water reservoir from the nearby stream.



FIGURE 13.- Sand dune in sandhills, Lamb County, Tex.



Based on pumping tests of about 8-hour duration, the yields of 12 wells in the plant "X" area in grids B and F ranged from 720 to 1,100 gallons a minute. The drawdown in five of these wells averaged 25.2 feet, and the specific capacities averaged 39, ranging from 26 to 50 gpm for each foot of drawdown. The specific capacities of wells B-170 and F-142 after they were pumped 24 hours were 56 and 39.5, respectively.

Ground water in the sandhills is suitable for irrigation, stock, and domestic uses, but it may require softening for industrial use. The analyses of water from nine wells indicate that the dissolved mineral content decreases eastward. For example, samples of water from wells F-13, F-140, and F-142 show an average of 670 ppm of dissolved solids, 95 parts of sulfate, and 56 parts of chloride; whereas water from well G-38 shows 360 parts of dissolved solids, 24 parts of sulfate, and 10 parts of chloride. The relatively high mineral content of the ground water in the western part of the sandhills is due to evaporation from numerous seeps and water-table ponds, whereas in the eastern part seeps and ponds are absent. The mineral content of the water in the seeps and ponds is increased by evaporation, and subsequent movement of the mineralized water down the hydraulic slope contaminates the ground water in other areas. A sample of water from Soda Lake (A-106) contained 31,400 ppm of dissolved solids, 14,500 parts of sulfate, and 7,310 parts of chloride, and a sample of water from well A-107, about half a mile south of Soda Lake, contained 1,370 parts of dissolved solids, 437 parts of sulfate, and 218 parts of chloride.

In April 1952, a 24-hour pumping test was made on well F-142 in the sandhills, to determine the hydrologic properties of the Ogallala formation. The well was pumped at the rate, according to the meter, of 887 gpm, and the depth to water was measured in the pumped well and two observation wells, F-2 and B-166, by hand tape and automatic water-stage recorders. Drawdown curves were plotted for wells F-2 and F-142 (fig. 14). At the end of a 24-hour period of pumping, the drawdown in well F-142 was 15.9 feet; in well F-2, at a distance of 462 feet, the drawdown was 2.53 feet, and in well B-166, at a distance of 3,200 feet, it was imperceptible. After the pump was shut down, recovery measurements were made for a period of 24 hours (fig. 14).

In November 1952, a 27-hour test was run on well B-170 to check the results obtained from the test of April 1952. Well B-170 was pumped for 39 hours at the rate of 790 gpm and the depth to water in the pumped well and in well B-167, 401 feet distant, was measured at frequent intervals. The drawdown and recovery curves are shown in figure 15.

The data obtained from these tests were analyzed by means of the nonequilibrium formula, developed by Theis (1935) and modified by Jacob (1946), to determine the coefficients of transmissibility and storage of the water-bearing formation. The nonequilibrium formula assumes that the water-bearing formation is infinite in areal extent, that it is homogeneous and isotropic (conducts water in all directions with equal facility), that its transmissibility is everywhere the same, that the coefficient of storage is constant, and that water is released from storage instantaneously with a decline in head. Although field conditions do not conform strictly to these assumptions, the figures obtained for the coefficients of transmissibility and storage are still of considerable value in interpreting the water-bearing characteristics of the formation.

The coefficient of transmissibility may be expressed as the quantity of water, in gallons a day, that will flow through a vertical strip of the water-bearing material 1 mile wide under a hydraulic gradient of 1 foot per mile. Thus, the quantity of water that will flow each day through each mile of the water-bearing material is the product of the coefficient of transmissibility and the existing hydraulic gradient. The storage coefficient is defined as the volume of water released from or taken into storage per unit surface area of the aquifer per unit change in the component of head normal to that surface. Under water-table conditions the coefficient of storage is essentially equivalent to the specific yield of the aquifer, which is defined as the ratio of the volume of water which, after being saturated, the aquifer will yield by gravity to its own volume.

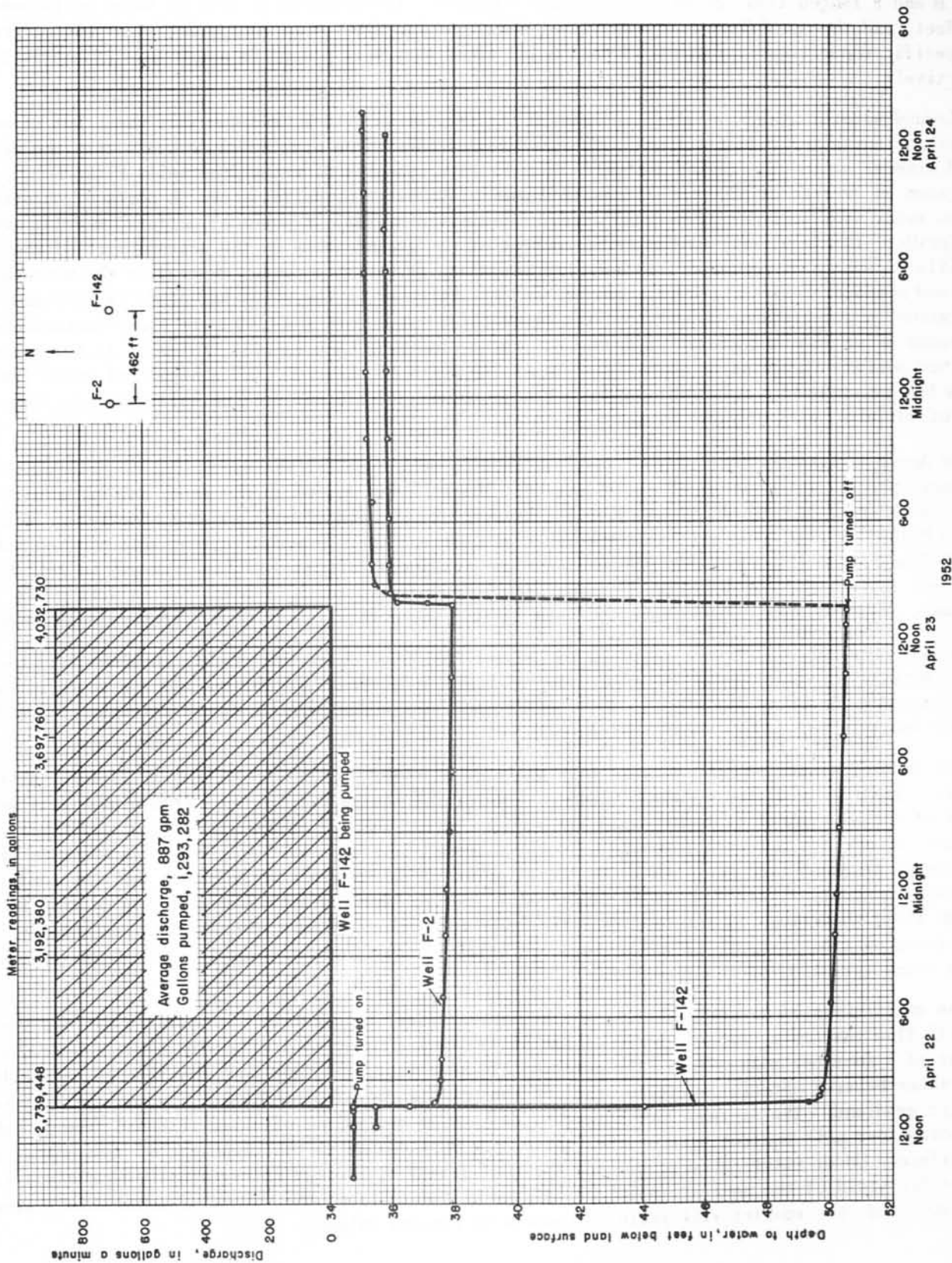


FIGURE 14. - Pumping test on well F-142

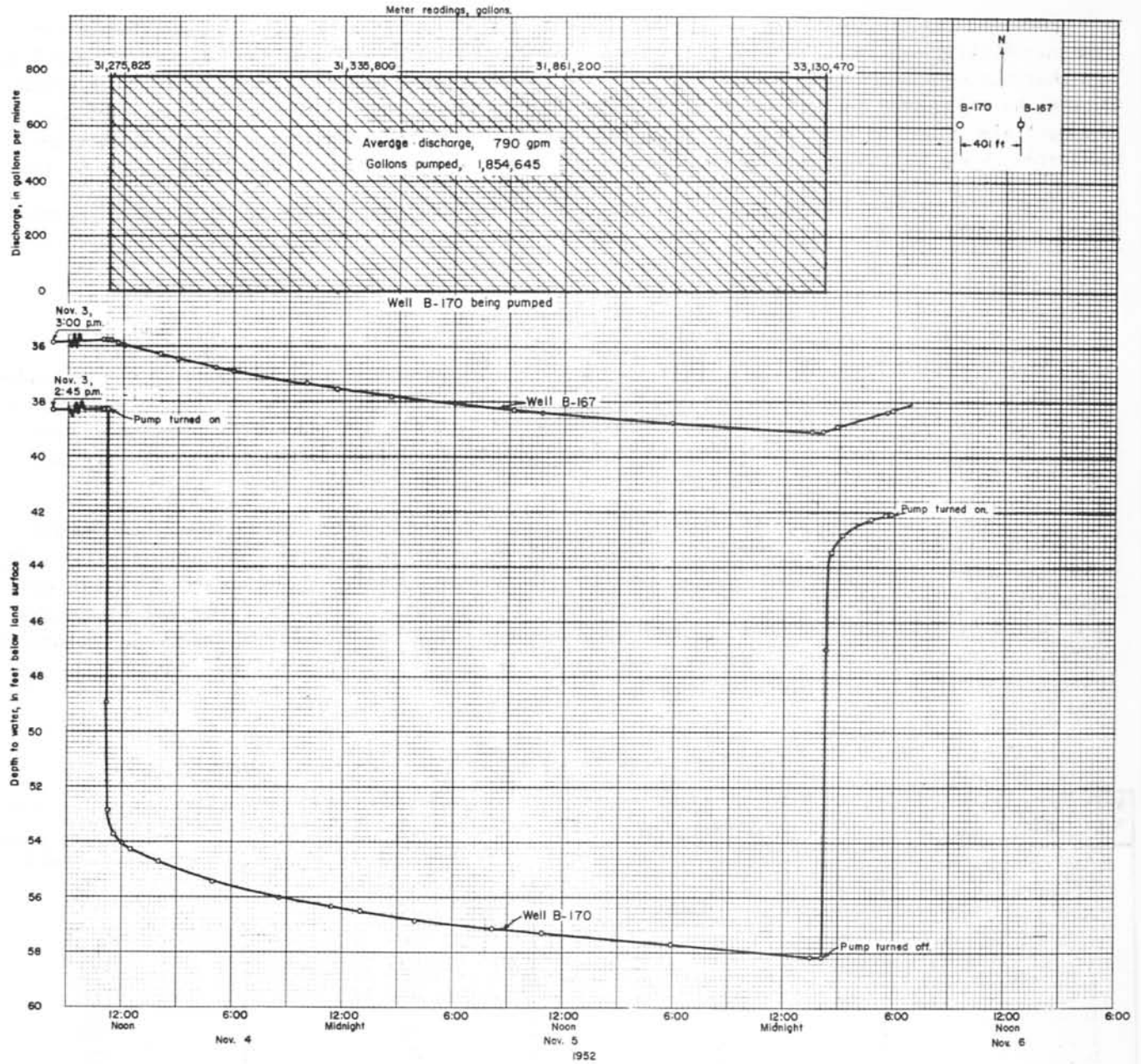


FIGURE 15.-Pumping test on well B-170.

The coefficients of transmissibility computed from the data obtained from the two tests in Lamb County were 63,000 gpm per foot in well B-167 and 153,000 gpm per foot in well F-2. The storage coefficients for the two tests were 0.018 at B-167 and 0.000013 at F-2. An analysis of the pumping-test data indicates that the aquifer varies considerably in short distances. The rapidity with which the effect of starting well F-142 was transmitted to well F-2 as compared to the longer time interval between the effect and the start of pumping well B-170 or well B-167 further supports the evidence of the lenticular character of the materials in the Ogallala formation.

Data obtained recently in pumping tests in the High Plains indicate that the coefficient of transmissibility generally is much less than that obtained during the tests at wells B-167 and F-2, and that the coefficient of storage is greater than that obtained during the tests at those wells. During the years 1938 to 1940, inclusive, a specific yield of about 15 percent was computed for the Ogallala formation by a comparison of the amount of water pumped with the volume of material unwatered in the Plainview and Hereford districts (Alexander, Broadhurst, and White, 1943, p. 15-17).

If a specific yield of 15 percent is assumed for the Ogallala formation, the total effective storage beneath the 150 square miles of sandhills may be computed to be about  $\frac{2}{4}$  million acre-feet.

#### FLUCTUATION OF WATER LEVELS

Before pumping began in Lamb County, the ground-water reservoir was in approximate equilibrium; that is, the natural recharge was balanced by the natural discharge. Thus, artificial discharge in the form of pumping from irrigation wells removed water from storage and caused lowering of the water table. The decline of the water table from 1938 to 1952, therefore, has been roughly proportional to the quantity of water pumped.

Measurements of water levels in several wells in Lamb County were made by State and Federal agencies in 1914, 1934, 1936, and 1937. Since April 1937, the water levels in 45 observation wells have been measured at intervals ranging from a month to a year, and the records of these measurements are given in table 10. Since 1938, records of water-level measurements from selected wells in Lamb County have been included in water-supply papers published annually by the U. S. Geological Survey. A cross index of well numbers used in this report and corresponding well numbers used in the water-supply papers is given in table 6.

Table 6.- Observation-well numbers used in this report and corresponding numbers given in water-supply papers

Well no. in this report	Well no. in water-supply paper	Well no. in this report	Well no. in water-supply paper
A-4	1	C-119	60
A-31	16	C-167	62H
A-34	3a	C-242	76
A-37	6	D-45	63B
A-46	19	D-58	62F
A-53	30	E-34	231
A-88	13	F-13	88
A-91	7	F-146	251a
A-101	8	H-30	71
B-27	54	H-48	70A
B-75	38	K-28	236
B-151	46B	K-65	243
B-160	50B	L-167	322
C-68	56	L-197	341A
C-72	57	L-231	307
C-74	57D		



Crops are irrigated in Lamb County during all four seasons, and in some years the pumps are operated nearly every month. Cotton, feed crops, and vegetables are irrigated during the period from May through September, and wheat during the winter and early spring. The amount of winter irrigation varies considerably, depending on the rainfall from year to year, and generally from December to March it is relatively small. A comparison of measurements made during the period from January to March in successive years, therefore, best shows the trend in water levels and the changes in storage of the ground-water reservoir.

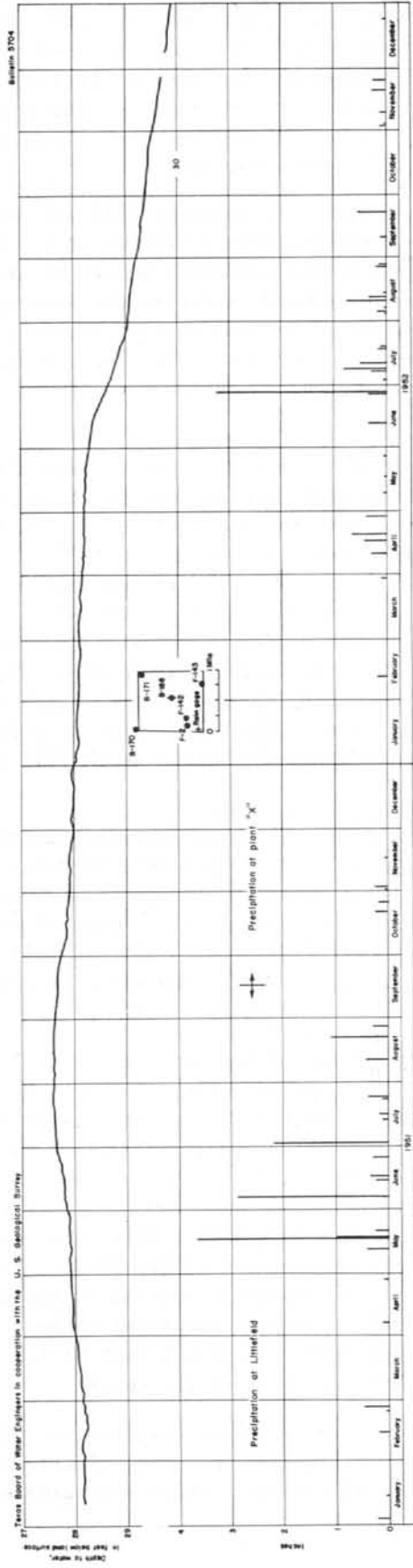
During the period from January 1938 through March 1941 the water levels in 17 observation wells in Lamb County showed changes ranging from a decline of 2.7 feet to a rise of 0.4 foot. Of these wells, 11 in the area north of the sandhills showed an average decline of 1.2 feet. The greatest declines were in the older irrigated region in the western part of this area. Observation wells E-34 and F-13, remote from areas of ground-water withdrawals and in an area of recharge, showed an average rise in water level of 0.3 foot. The water levels in 4 wells south of the sandhills showed an average decline of 0.4 foot, and the declines increased toward the southeastern part of the county where pumpage was large.

During the period 1941-43, inclusive, water levels in most observation wells showed a pronounced rise as a result of the exceptionally high rainfall and light pumping in 1941 and 1942. The rise in 17 observation wells ranged from 2.4 feet in well K-65 to 15.0 feet in well F-146, and averaged 6.5 feet. In general, the greatest rises were in the area north of the sandhills, where in 10 wells the average rise was 7.1 feet. These records indicate that recharge to the ground-water reservoir decreases eastward where the depth to water increases and the soils become tighter. Records of water levels in well E-1 in the sandhills show a rise of 4.6 feet from March 1941 to February 1943. The water level in well F-13 rose 6.0 feet from March 1941 to March 1942; records are not available to show whether it continued to rise during 1942. In the area south of the sandhills the water levels in five wells rose an average of 5.7 feet. The water level in well F-146, which is in an area favorable for recharge, rose 15 feet during the period March 1941 to February 1943, and continued to rise until February 1945.

Since 1943 the water levels in most wells have declined steadily, owing chiefly to an increase in pumping, but partly to the leveling off after the 1941-42 rains. The rate of decline is affected by the proximity of the well to areas of heavy ground-water withdrawal. During the period 1943-52 the decline in the water levels in 28 observation wells, most of which are in the irrigated parts of the county, ranged from 0.4 foot in well K-28 to 19.2 feet in well A-37 and averaged 12.0 feet, of which 8.8 feet or 70 percent occurred after 1946. The water levels in five wells in the irrigated area south of the sandhills declined an average of 9.7 feet.

During the period 1951-52 the decline of the water table in 18 wells in the northern part of the county ranged from 0.1 foot to 6.7 feet and averaged 3.0 feet. In grid A, the water levels in several wells declined less than 1 foot, and in well A-91 the water level rose 0.4 foot, indicating possible infiltration from a nearby stream bed. Water levels in wells E-34 and F-13 in the sandhills declined an average of 1.1 feet, whereas the level in well B-166 showed a net rise of 0.15 foot. Figure 16 shows the daily rainfall and daily fluctuation of the water level in well B-166 at plant "X" in the sandhills. Although the sandhills have a very high infiltration capacity, the water level in well B-166 showed no abrupt rise after the heavy rains of May 15-17. This lack of sharp response to rainfall was probably due to the low soil-moisture content of the dune materials which had to be replenished before water could percolate down to the water table. In the southern part of the county declines of water level ranged from less than 1 foot to 3.2 feet and averaged 1.5 feet. The greatest declines were in the southeastern part of the county.

Precipitation at Muleshoe during 1952 totaled 10.44 inches and was the lowest on record. Because of the subnormal precipitation and the increase in number of irrigation wells, the withdrawal of ground water and, consequently, the decline of the water table were greater in 1952 than in any previous year.





The average net decline of water levels in 43 observation wells was 3.4 feet, or 1.1 feet greater than in 1951. The decline of the water table was fairly uniform throughout the irrigated sections of the county. The average net decline of the water table in 27 wells in the northern part of the county was 3.5 feet, and the average net decline in 14 wells south of the sandhills was 3.6 feet. Wells in the sandhills continued to show declines ranging from less than 1 foot in well E-34 to 1.4 feet in well F-13.

The water level in well B-166 was observed by means of an automatic water-stage recorder. A graph compiled from the recorder charts for 1951 and 1952 is shown in figure 16, together with the precipitation record at Littlefield and plant "X" for the same period. Figure 8 shows the fluctuations of the water levels in 10 other observation wells and the record of precipitation at Muleshoe.

The decline of the water level in observation well B-166, due to nearby pumping for industrial purposes, is shown in figure 16. The marked decline during June and July 1952 resulted from the withdrawal of approximately 40 million gallons of water from well F-142. About 120 million gallons of water was pumped from wells B-170 and B-171 during the period August to December 1952, inclusive, whereas less than 10 million gallons was pumped from well F-142. This shift in the center of pumping is reflected in the decreased rate of decline in well B-166 from August to December.

The fluctuation of water levels in most wells for which records are available varied widely during the period 1938-53, inclusive. Figure 17 shows, by means of lines connecting points of equal decline, that the greatest net declines are in those sections of the county that have been irrigated longest. In the sandhills and in other areas that are remote from pumping or are marginal to the irrigated regions, water levels declined little or were at a higher stage in January 1953 than in March 1938. Sufficient data are not available to delineate these areas.

#### QUALITY OF WATER

Ground water in Lamb County, in general, is usable for irrigation, public supply, industry, and stock. Analyses of water samples from 88 wells, 1 spring, and 2 lakes are given in table 11. Standards that have been established for judging the suitability of water for irrigation are based on the total concentration of dissolved solids, the percentage of sodium, and the quantity of boron in the water. According to a classification by Wilcox (1948) based on specific conductance (which is directly related to dissolved solids content) and percent sodium, most of the water ranges from "good" to "permissible" for irrigation (fig. 18).

Boron is an element required in very small amounts for plant growth, but it is exceedingly toxic at concentrations only slightly above optimum. It is not usually present in large amounts. Boron toxicity may be indicated by yellowing and mottling of leaves, and in severe cases by defoliation of plants. Permissible limits of boron in several classes of irrigation water are shown in table 7. In 13 samples of water used for irrigation in Lamb County, the boron content ranged from 0.02 to 0.89 ppm. Boron, therefore, is believed to be no problem in Lamb County.

Table 7.- Permissible limits for boron in several classes of irrigation water. (Scofield, 1936, p.286)

Rating	Classes of water	Sensitive crops (ppm)	Semitolerant crops (ppm)	Tolerant crops (ppm)
1	Excellent	< 0.33	< 0.67	< 1.00
2	Good	0.33 to 0.67	0.67 to 1.33	1.00 to 2.00
3	Permissible	0.67 to 1.00	1.33 to 2.00	2.00 to 3.00
4	Doubtful	1.00 to 1.25	2.00 to 2.50	3.00 to 3.75
5	Unsuitable	> 1.25	> 2.50	> 3.75

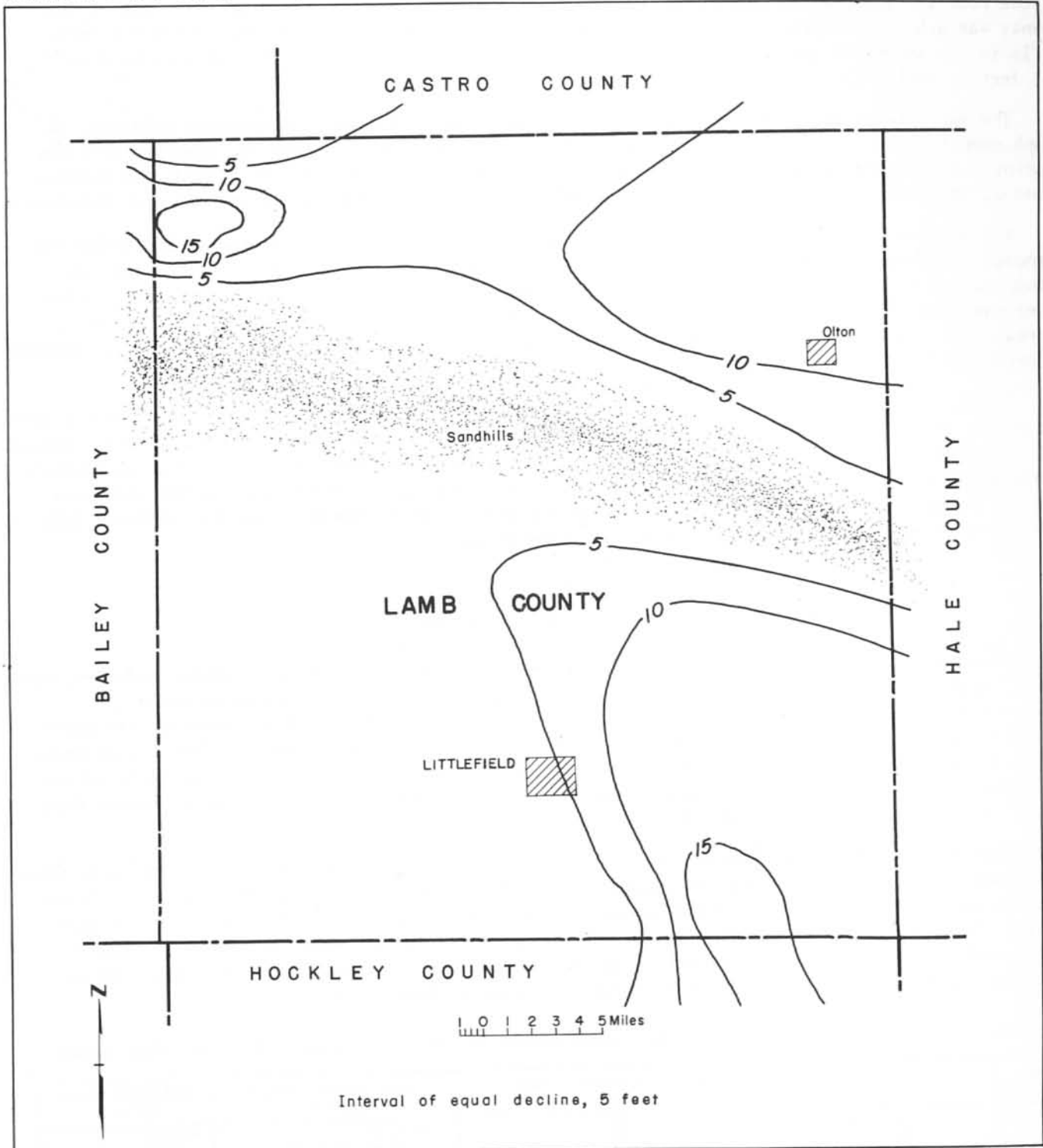


FIGURE 17. - Decline of water levels in Lamb County, 1938-53.

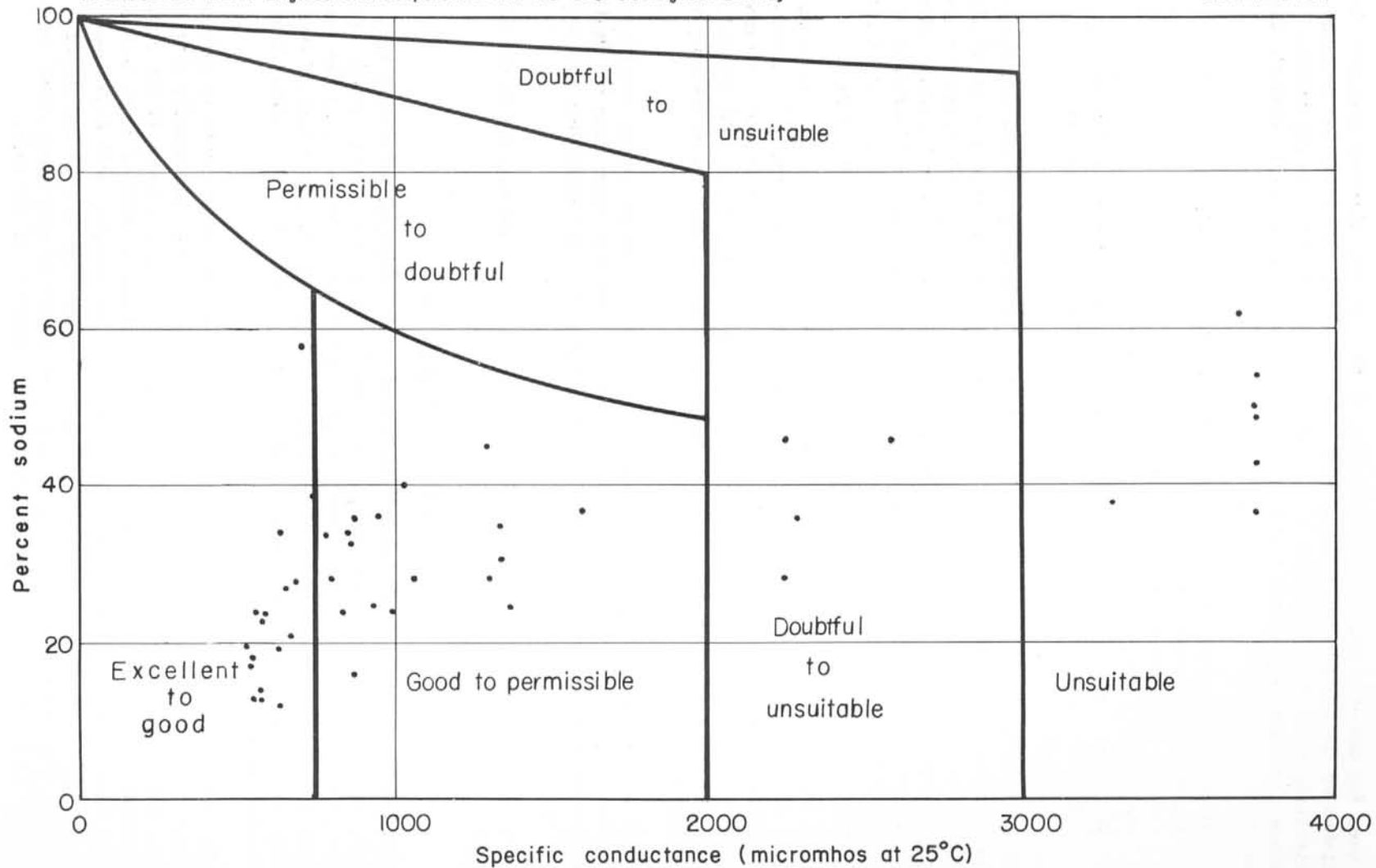


FIGURE. 18.- Classification of ground water for irrigation in Lamb County (Wilcox, 1948, p.26).

Water used for domestic and municipal supplies should conform, whenever possible, to the standards established by the United States Public Health Service (1946, p. 384), for drinking and culinary water on interstate carriers, which have been adopted by many state health departments. These standards place the following concentration limits on the important minerals commonly found in solution in ground water:

Iron (Fe) and manganese (Mn) together should not exceed 0.3 ppm.

Magnesium (Mg) should not exceed 125 ppm.

Chloride (Cl) should not exceed 250 ppm.

Sulfate ( $\text{SO}_4$ ) should not exceed 250 ppm.

Dissolved solids should not exceed 500 ppm in water of good chemical quality.

However, if such water is not available, a dissolved-solids content of 1,000 ppm may be permitted.

The effect of fluoride in drinking water on the teeth of growing children was discussed by Dean (1936, 1938). Evidence indicates that drinking water containing more than 1.5 ppm of fluoride produces significant mottling of teeth, whereas smaller amounts of fluoride lessen the incidence of tooth decay. The Texas State Department of Health now recommends a fluoride concentration of 1.0 to 1.5 ppm. Analyses of 55 water samples in Lamb County showed an average fluoride content of 2.7 ppm and a range from 0.5 to 8.8 ppm. Of the 55 samples, only 4 showed a fluoride content within the recommended range of 1.0 to 1.5 ppm, and only 1 showed a content less than 1.0 ppm.

The water from the Ogallala formation in Lamb County generally is a hard calcium magnesium bicarbonate water. Of 70 samples (table 11), 60 samples had concentrations (epm) of magnesium greater than calcium, therefore the water generally cannot be classed as calcium bicarbonate. Bicarbonate is the predominant anion. The dissolved-solids content ranges from about 230 to 1,600 ppm and averages 685 ppm, except in the vicinity of the alkali lakes and seeps, where higher concentrations of dissolved solids have been observed.

Although few wells in Lamb County obtain water from the Cretaceous rocks, records of those few indicate that the water is generally higher in dissolved solids than water from the Ogallala. Water from the Cretaceous rocks, like that in many places from the Ogallala formation, may contain magnesium in excess of calcium.

The quality of water in various parts of Lamb County is discussed briefly in the section "Development of Ground Water."

## WELL CONSTRUCTION

In recent years, most of the municipal, industrial, and irrigation wells have been drilled by the rotary method, which in large part has replaced the percussion or cable-tool method. In general, the well diameter is about 18 inches, but in many of the older wells the diameter of the casing has been reduced two or more times. The reduced diameter of the casing in the lower part of these wells has precluded lowering of the large-diameter pumps and has resulted in the abandonment of many wells as the water levels decline.

The wells are generally finished with casing slotted from the water table to the bottom. The general practice in Lamb County has been to burn slots in the casing, and usually little effort is made to relate the width of the slot to the diameter of the sand particles. If the slots are too large, considerable quantities of sand enter the well, resulting in wear of pumps and casing and eventually the loss of the well by collapse of the walls. For example, well F-99 pumped so much fine sand as to cause a collapse of the well, resulting in the loss of pump and casing. On the other hand, slots that are too small, or an insufficient number of slots, may cause excessive "entrance losses" in head, thereby reducing the specific capacity of the wells.

Most of the pumps in use are high-speed turbines powered by internal-combustion engines fueled by butane, although a small, but increasing, number of pumps are powered by electric motors (fig. 19). In recent years the pump settings of an ever-increasing number of wells have had to be lowered considerably, owing to the decline of the water table. Numerous wells have been reported by the owners to have decreased in discharge at the peak of the irrigation season, thus necessitating a lowering of the pump setting. Most of the changes have been in the older, more heavily pumped districts. For example, the pump setting in well M-57 was lowered from 120 to 160 feet during the period 1945-50, and that in well M-97 was lowered from 170 to 204 feet during the period 1941-50.



FIGURE 19. - Irrigation well C-235, Lamb County, Tex.

## FUTURE DEVELOPMENT

Additional large supplies of ground water suitable for irrigation, industrial, and municipal needs are available from the Ogallala formation in Lamb County. The largest undeveloped source is the 150 square miles of sandhills, where an estimated 2¼ million acre-feet of ground water is in storage. Much of this land is rolling and sandy and generally unsuitable for farming. Nevertheless, a considerable acreage is relatively flat and has a clayey soil that could be farmed and irrigated.

When closely spaced wells are pumped, the cones of depression surrounding them overlap, and the excessive interference results in a decrease in the discharge or necessitates a lowering of the pumping level, or both. However, further expansion of irrigation in the northern part of the county is possible if wells are properly spaced. In the irrigated part of the area south of the sandhills there are presently about four wells per square mile and the discharge from many of the wells is reported to decrease during the irrigating season. Therefore, further expansion of irrigation may result in local overconcentration of wells and continued or accelerated decrease in well discharge. It is not likely that large-scale irrigation can be developed in the southwestern part of the county because of the thinness of the saturated materials and the presence of highly mineralized water in the vicinity of the alkali lakes. However, in those parts of that area where mineralization is not a factor, the supply of water in the Ogallala is adequate for domestic and livestock requirements.

Ground-water supplies from the basal sand and gravel of the Kiamichi formation are believed to be too highly mineralized and too small for use other than watering stock.

Electric logs indicate that the water in the Triassic rocks is too highly mineralized for most purposes. Although mineralization appears to decrease westward, the quantity of water available to wells is likely to be too small for irrigation.



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Table 8.- Records of wells in Lamb County, Texas

(All wells are drilled unless otherwise noted in remarks column)

Method of lift: C, cylinder; E, electric; G, gas, butane or Diesel; T, turbine. Number indicates horsepower.

Use of water: D, domestic; Ind, industrial; Irr, irrigation; N, not used; P, public supply; S, stock.

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
A-1	R. B. Seton	--	1950	200	15½	a/75.6	Nov. 1950	T,G	Irr	--	Pump set at 120 ft.
A-2	L. W. Smith	--	--	--	--	--	--	T,G	Irr	--	
A-3	A. W. Black	-- Willis	1946	160	16	--	--	T,G, 90	Irr	160	Pump set at 110 ft. Reported discharge, 1,500 gpm in 1946.
A-4	H. H. Engleking	A. B. Hayes	1935	128	15	b/68.9	Nov. 10, 1936	T,G	Irr	--	Pump set at 100 ft.
A-5	do	R. Hawthorne	1950	160	16	a/70.6	Nov. 1950	T,G	Irr	80	Pump set at 110 ft.
A-6	Fred Warren	R. H. Sneed	1941	167	16	--	--	T,G	Irr	--	
A-7	do	-- White	1935	69	--	a/50.9	Jan. 1937	T,G, 85	Irr	--	Measured discharge, 1,040 gpm.
A-8	R. E. Broyles	W. O. Crawford	1947	140	16	a/59.8	Sept. 1950	T,G, 115	Irr	120	
A-9	E. Stevens	Green Machinery Co.	--	--	--	--	--	--	Irr	--	
A-10	R. Bryant	--	--	--	--	--	--	T,G	Irr	--	
A-11	R. W. Bryant	Kirkland-Ware	1949	180 <sup>±</sup>	16	--	--	T,G	Irr	160	Reported discharge, 1,650 gpm.
A-12	E. T. Bryant	do	1950	180	16	a/66	1950	T,G	Irr	160	
A-13	R. E. Broyles	W. O. Crawford	1946	160	16	a/71.3	Sept. 1950	T,G	Irr	160	Casing: 16-in. to 100 ft.
A-14	do	do	1944	128	16	--	--	T,G	Irr	160	Casing: 16-in. to 100 ft. Estimated discharge, 1,000 gpm September 1950.
A-15	W. C. Stout	P. Marefield	1949	200	16	a/77.4	Oct. 1950	T,G	Irr	160	Pump set at 140 ft.
A-16	J. H. Angely	L. Ware	1948	180	16	a/78.2	Oct. 1950	T,G	Irr	160	
A-17	E. Cates	Green Machinery Co.	1949	208	16	a/67	May 1949	T,G	Irr	210	Pump: 10-in., 2-stage, set at 130 ft. Estimated discharge, 1,300 gpm Nov. 7, 1950.
A-18	A. B. Davis	Consolidated Oil & Gas Co.	1948	200	16	66.3	Nov. 7, 1950	T,G	Irr	160	Pump set at 120 ft.
A-19	H. R. Haberer	--	1945	200	16	--	--	T,G	Irr	200	Reported discharge, 1,200 gpm in 1950.
A-20	H. R. Haberer, Jr.	H. P. Price	1940	121	15½	a/42	Oct. 1940	T,G	Irr	150	Pump: 8-in., 2-stage, set at 90 ft. in 1940. See log.
A-21	J. H. Angely	L. Ware	1943	138	16	a/52	1945	T,G, 120	Irr	80	Pump: 10-in. set at 90 ft.
A-22	--	--	--	--	--	--	--	T,G	Irr	--	
A-23	E. K. Angely	--	--	--	--	--	--	T,G	Irr	--	
A-24	do	--	--	--	--	--	--	None	Irr	--	
A-25	-- Johnson	--	--	--	--	45.4	Sept. 7, 1950	T,G, 100	Irr	--	

a/ Water level reported by owner or driller.

b/ See table 10, records of water-level measurements.

\* See table 11, for analyses.

Table 8.-- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
A-26	C. D. Black	L. Ware	1950	160	16	a/45	1950	T, G	Irr	160	Casing: 16-in. to 130 ft. Pump set at 80 ft. Reported discharge, 1,500 gpm.
A-27	do	S. Ballard	1947	160	16	48.5	Nov. 7, 1950	T, G, 100	Irr	160	Pump set at 80 ft.
A-28	L. F. Greene	--	1947	155	16	--	--	T, G, 165	Irr	--	Pump set at 125 ft.
A-29	S. Moore	J. Crawford	1943	126	16	a/51	1943	T, G, 100	Irr	160	Pump: 8-in., 2-stage, set at 72 ft.
A-30	F. Determan	--	1947	165	16	--	--	T, G, 40	Irr	--	
A-31	-- Haley	A. B. Hayes	1933	100	--	b/37.4	May 6, 1936	T, G, 35	Irr	--	Drawdown 23 ft after 8-hours of pumping 815 gpm, 1937. See log.
A-32	H. H. Engleking	Green Machinery Co.	1948	150	16	53.1	Nov. 6, 1950	T, G, --	Irr	160	Pump set at 100 ft.
A-33	J. Crawford	A. B. Hayes	--	105	--	26.7	Nov. 14, 1934	None	N	--	Abandoned.
A-34	Mulshoe Masonic Lodge	--	1934	150	24	b/33.4	May 9, 1936	T, G	Irr	--	Pumping level at 42 ft, Aug. 12, 1946.
A-35	do	--	1940	--	--	--	--	T, G, 100	Irr	--	
A-36	H. L. Crawford	A. B. Hayes	1935	125	--	24.5 26.0	May 14, 1936 Jan. 25, 1937	None	N	--	Abandoned.
A-37	G. L. Till	--	1913	150	16	b/20.1	Mar. 15, 1937	T, G	Irr	--	Formerly a pit well. Water level at 18.0 ft in 1914, reported by C. L. Baker.
A-38	G. Till	--	--	--	--	--	--	T, G	Irr	--	
A-39	C. A. Barnett	A. B. Hayes	1942	120	16	32.8	Sept. 7, 1950	T, G, 100	Irr	60	Casing: 16-in. to 76 ft; 14-in. to 120 ft.
A-40	do	W. O. Crawford	1949	150	16	--	--	T, E, 40	Irr	100	Casing perforated from 30 to 150 ft. Estimated discharge, 2,000 gpm Sept. 7, 1950.
A-41	R. D. & R. T. Procure	R. F. Davis	1941	120	15	a/29	Mar. 1941	--	--	--	Pump: 8-in. 2-stage, set at 60 ft. See log.
A-42	F. L. Determan	Dempster Co.	1918	100	10	26.2	Oct. 30, 1936	T, E, 30	Irr	--	Estimated discharge, 1,000 gpm, Jan. 26, 1937.
A-43	Fred P. Warren	do	1916	100	10	--	--	None	N	--	Abandoned.
A-44	T. D. Lewis	--	1947	65	16	a/30	1948	T, G, 100	Irr	160	Reported discharge, 1,300 gpm on Sept. 7, 1950.
A-45	--	Green Machinery Co.	--	--	--	--	--	T, G	Irr	--	
A-46	J. Allen	--	1913	125	--	b/19.8	Oct. 30, 1936	T, E, 30	Irr	--	Water level 18 ft below land-surface in 1913, reported by C. L. Baker.
A-47	G. King	B. Kennedy	1948	165	16	28.1	Nov. 6, 1950	T, G	Irr	160	Pump set at 85 ft.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
A-48	A. Kingery	B. Kennedy	1950	170	16	--	--	T, E, 40	Irr	160	Pump set at 100 ft.
A-49	L. B. Pugh	L. Ware	1946	165	16	30.6	Nov. 6, 1950	T, E, 40	Irr	120	Pump set at 86 ft.
A-50	Allison Bros.	--	1945	170	16	31.6	Sept. 7, 1950	T, G, 30	Irr	160	Pumping level reported at 70 ft in 1945. Pump: 10-in., 2-stage, set at 70 ft.
A-51	B. H. Bickel	J. Kropff	--	--	--	30.3 30.7	May 14, 1936 Jan. 27, 1937	T, G, 100	Irr	--	Reported to have broken suction in 1949. Pump set at 80 ft.
A-52	S. B. Cole	J. W. Hornbrook	1950	140	16	--	--	T, E, 40	Irr	160	Estimated discharge, 1,500 gpm on Sept. 7, 1950.
A-53	W. Grizzle	do	1949	250	16	b/24.0	May 14, 1936	T, G, 165	Irr	--	Pump: 12-in., 1-stage, set at 96 ft. Reported discharge, 3,000 gpm in 1949. Replaces well 100 ft west drilled in 1936.
A-54	R. L. Roubinek	Peerless Pump Co.	1949	180	16	49.3	Nov. 6, 1950	T, E, 40	Irr	160	Pump: 8-in., 2-stage, set at 80 ft. Casing: 16-in. to 160 ft.
A-55	-- Thomas	--	1939	90	16	a/50	Nov. 1950	T, G	Irr	150	
A-56	J. A. Parish	L. Ware	1947	200	16	47.8	Nov. 10, 1950	T, G, 165	Irr	160	Pump set at 90 ft.
A-57	R. Commons	--	1946	--	--	--	--	T, G, 165	Irr	--	Pump: 10-in., 2-stage, set at 80 ft.
A-58	-- Walker	--	1942	--	--	--	--	T, G, --	Irr	--	
A-59	Ewing Halsell	H. P. Price	1941	180	15	a/31	Apr. 1941	T, G	Irr	--	Pump: 10-in., 3-stage, set at 90 ft. See log.
A-60	J. Gregg	-- Cook	1936	165	20, 12	49.3	Oct. 28, 1936	T, G, 100	Irr	--	Casing: 20-in. to 100 ft; 12-in. to 165 ft. Estimated discharge, 950 gpm on Feb. 4, 1937.
A-61	F. Meeks	J. W. Hornbrook	1949	195	16	54.1	Nov. 7, 1950	T, G	Irr	190	Pump set at 120 ft.
A-62	-- Halsell	--	--	--	--	--	--	--	Irr	--	
A-63	Halsell Cattle Co.	Green Machinery Co.	1939	--	--	--	--	T, G	Irr	--	
A-64	Ewing Halsell	M. A. Patton	1940	184	15	--	--	T, G, 90	Irr	240	Pump: 10-in., 3-stage, set at 70 ft. See log.
A-65	V. D. Coker	J. Whitfield	1940	106	16	19.7	Oct. 19, 1950	T, G, 100	Irr	--	Pump: 10-in., 1-stage, set at 60 ft. Water level at 42.3 ft while pumping at 1,590 gpm on May 6, 1940. See log.
A-66	do	D. H. Sneed	1949	--	--	19.2	do	T, G	Irr	--	
A-67	Halsell Farms Co.	L. Ware	1948	175	16	a/19	1949	T, G, 100	Irr	200	Pump: 10-in., set at 120 ft.
A-68	G. T. Hall	G. Taylor	1948	186	16	14.7	Oct. 20, 1950	T, G	Irr	254	Pump set at 70 ft.
A-69	do	do	1949	180 <sup>±</sup>	16	23.3	do	T, G	Irr	--	Do.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
A-70	G. T. Hall	G. Taylor	1948	186	16	25.6	Oct. 20, 1950	T,G	Irr	150	Pump set at 70 ft.
A-71	A. A. Parish	L. Ware	1943	135	16	43.1	Nov. 10, 1950	T,G	Irr	200	Pump: 8-in., 2-stage, set at 80 ft.
A-72	W. D. Lackey	--	--	--	--	--	--	T,G	Irr	--	
A-73	-- Schneider	L. Ware	1942	130	14	--	--	T,G	Irr	--	Casing: 14-in. to 113 ft. Pump: 8-in. 2-stage, set at 50 ft.
A-74	H. Kingery	B. Kennedy	1949	130	16	--	--	T,G, 140	Irr	160	Pump set at 90 ft.
A-75	Allison Bros.	H. D. Crawford	1946	110	20	a/16	June 1946	T,G, 60	Irr	160	Pump set at 50 ft. Estimated discharge, 2,000 gpm on Sept. 7, 1950.
A-76	A. Kingery	J. W. Hornbrook	1950	130	16	--	--	T,G, 100	Irr	160	Reported discharge, 2,000 gpm on July 3, 1950.
A-77	W. Grizzle	T. Mosely	1944	135	16	--	--	T,G, 135	Irr	160	
*A-78	do	J. W. Hornbrook	1950	120 <sup>±</sup>	20	23.3	Oct. 20, 1950	T,E	Irr	160	Pumping level 57.9 ft May 12, 1952, after 443 hours of pumping 2,240 gpm. Temp. 62°F.
A-79	J. M. Young	--	--	--	--	18.6	Oct. 26, 1937	None	N	--	Abandoned.
A-80	Allison Bros.	O. Allison	1946	90	16	a/20	Jan. 1946	T,G, 30	Irr	80	Pump set at 50 ft.
A-81	E. L. Shelby	--	1945	--	16	--	--	T,E, 40	Irr	80	
A-82	W. Grizzle	O. W. Crawford	1945	135	16	--	--	T,G	Irr	90	Casing: 16-in. to 60 ft.
A-83	do	A. B. Hayes	1931	100	18	15.0 19.9	Feb. 4, 1937 Oct. 20, 1950	T,G, 30	Irr	--	Measured discharge, 2,000 gpm on Feb. 4, 1937.
A-84	do	J. W. Hornbrook	1950	190	16	19.1	Oct. 20, 1950	None	N	--	To replace A-79. Red beds at 190 ft.
A-85	A. Kingery	B. Kennedy	1947	130	16	--	--	T,G, 110	Irr	160	Pump set at 90 ft.
A-86	G. King	do	1948	165	16	--	--	T,G	Irr	160	
A-87	S. B. Johnson	--	1941	48	--	17.8 17.7	Nov. 10, 1936 Jan. 26, 1937	T,G, 100	Irr	--	Uncased. Water level at 29.7 ft while pumping at 864 gpm on Aug. 26, 1947.
A-88	J. Fyie	H. Wilterding	1917	150	24	b/21.6	Nov. 14, 1934	T,E, 40	Irr	--	Uncased. Water level at 49.3 ft while pumping at 1,697 gpm on Aug. 26, 1947.
A-89	T. L. Free	--	--	--	--	--	--	T,E, 50	Irr	--	
A-90	do	--	--	--	--	--	--	T,E, 50	Irr	--	
*A-91	J. G. Thompson	H. Wilterding	1915	105	14	b/13.8	Nov. 14, 1934	T,E, 40	Irr	80	Formerly a pit well. Measured discharge, 890 gpm on May 12, 1952. Temp. 60°F.



Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
A-92	John Bickel	J. O. Crawford	1941	125	18	24.8	Oct. 20, 1950	T,G	Irr	160	Casing: 18-in. to 90 ft. Pump: 10-in., 1-stage, set at 60 ft.
A-93	do	H. Crawford	1938	125	24	24.5	Oct. 26, 1950	None	N	--	Casing: 24-in. to 6 ft. To be used for irrigation.
A-94	C. E. Lowe	A. B. Hays	1942	125	24	--	--	T,G	--	--	Casing: 24-in. to 8 ft.
A-95	L. Hamm	--	1929	86	24	15.1	Oct. 26, 1936	None	N	--	Replaced by well A-96 in 1944.
A-96	do	J. A. Crawford	1944	--	16	25.8	Oct. 20, 1950	T,E, 50	Irr	--	
A-97	Allison Bros.	E. H. Kennedy	1948	120	20	--	--	T,G, 80	Irr	120	Reported discharge, 2,200 gpm in March 1948.
A-98	do	Hornbrook Co.	1948	120	20	a/16	Aug. 1948	T,G, 80	Irr	120	Reported discharge, 2,300 gpm in March 1948.
A-99	do	E. H. Kennedy	1948	120	20	b/18.9	Mar. 24, 1949	T,G, 80	Irr	120	Casing perforated from 20 to 120 ft.
A-100	B. H. Dyck	J. Crawford	1949	130	18	--	--	T,G, 47	Irr	120	Pump set at 60 ft.
A-101	do	A. B. Hayes	1931	125	20, 16	b/15.8	Oct. 26, 1936	None	N	--	Abandoned. Replaced by well A-100.
A-102	do	J. Crawford	1944	100	18	--	--	T,G, 55	Irr	100	Casing: 18-in. to 60 ft.
A-103	R. E. Broyle	W. O. Crawford	1948	120	16	--	--	T,E, 30	Irr	80	Estimated discharge, 1,200 gpm on Sept. 7, 1950.
*A-104	Halsell Land & Cattle Co.	--	--	--	5	5.5	May 5, 1952	C,W	S	--	Well at north edge of sandhills. Temp. 59 F.
*A-105	E. K. Warren Estate	--	--	56	5	12.3	May 12, 1952	C,W	S	--	Casing: 5-in. to 20 ft.
*A-106	do	--	--	--	--	--	--	--	--	--	Soda Lake. In sandhills.
*A-107	Halsell Land & Cattle Co.	--	--	53	5	31.3 31.0	Feb. 9, 1937 May 12, 1952	C,W	S	--	South of Soda Lake.
B-1	-- Simmons	--	--	--	--	--	--	T,G	--	--	
B-2	Robert O'Hair	L. Ware	1950	200	16	--	--	T,G	Irr	200	Pump set at 120 ft.
B-3	do	do	1948	200	16	90.6	Oct. 19, 1950	T,G	Irr	200	Do.
B-4	E. W. Harper	-- Hornbrook	1948	200	16	96.9	do	T,G	Irr	160	Pump set at 147 ft.
B-5	C. Hamilton	Peerless Pump Co.	1949	200 <sup>±</sup>	16	--	--	T,G	Irr	300	
B-6	Crill Bulls	Ware Bros.	1946	200	16	--	--	T,G	Irr	160	Pump set at 140 ft.
B-7	W. C. Stout	Pete Marefield	1948	252	16	--	--	T,G	Irr	220	Red beds at 252 ft.
B-8	R. Finnell	-- Sned	1949	210	16	101.9	Oct. 18, 1950	T,G	Irr	160	Reported discharge, 900 gpm in 1949.

of

Table 2.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
B-9	O. B. Fanning	Peerless Pump Co.	1948	212	16	102.0	Oct. 17, 1950	T, G	Irr	--	Reported discharge, 1,000 gpm.
B-10	W. C. Stout	J. D. Kirkland	1948	200±	16	a/103	Oct.	T, G	Irr	220	
B-11	E. C. Clayton	Peerless Pump Co.	1949	200	16	a/95	1949	T, G, 165	Irr	160	Reported discharge, 1,100 gpm in 1949.
B-12	W. C. Stout	Pete Marefield	1949	200	16	--	--	T, G	Irr	320	Pump set at 140 ft.
B-13	E. C. Clayton	Green Machinery Co.	1937	200	16	--	--	T, G	Irr	320	Reported discharge, 1,100 gpm in 1950.
B-14	F. D. Clayton	do	1945	200	16	a/85	1945	T, G, 100	Irr	320	See log.
B-15	do	Big "T" Pump Co.	1948	200	16	96.6	Oct. 17, 1950	T, G, 145	Irr	160	
B-16	H. F. Hodge	Green Machinery Co.	1950	239	--	94.2	do	T, G	Irr	--	Pump: 10-in., 1-stage, set at 140 ft.
B-17	F. E. Burgess	Bradford Supply Co.	1950	213	16	96.0	Oct. 23, 1950	T, G	Irr	140	Altitude of land surface 3,769.82 ft.
B-18	L. Z. Anglin	Peerless Pump Co.	1947	200	16	92.4	Nov. 10, 1950	T, G	Irr	160	Pump set at 120 ft.
B-19	do	do	1947	200	16	--	--	T, G	Irr	150	
B-20	C. E. Moore	--	1950	212	16	106.5	Oct. 23, 1950	T, G	Irr	--	
B-21	J. D. Nix	--	--	--	--	--	--	T, G	Irr	--	
B-22	do	--	--	--	--	--	--	T, G	--	--	
B-23	W. O. Jones	Green Machinery Co.	1947	226	16	a/101	--	T, G	Irr	120	Pump: 8-in., set at 150 ft. Reported discharge 1,000 gpm in January 1947.
B-24	Sam Jones	Peerless Pump Co.	1945	--	--	--	--	T, G	Irr	320	
*B-25	J. D. Nix	John Whitfield	1936	200	--	105.2	Oct. 16, 1950	T, G	Irr	--	Reported discharge, 1,200 gpm in February 1936. Temp. 63°F.
B-26	W. H. Williams	Green Machinery Co.	1942	216	16	--	--	T, G, 95	Irr	--	Pump: 8-in., 2-stage, set at 108 ft. See log.
B-27	R. G. Wilson	Bradford Supply Co.	1937	225	15½	b/87.4	Apr. 1, 1937	T, G	Irr	--	Drawdown measured 13 ft after 7 hours of pumping at 745 gpm on June 13, 1938.
B-28	T. S. Alair	-- Roberson	1948	200	16	a/100	1948	T, G, 165	Irr	180	
B-29	Mrs. Ida A. Schaefer	Peerless Pump Co.	1943	242	16	98.9	July 17, 1950	T, G, 120	Irr	150	
B-30	W. M. Kirkpatrick	--	1948	230	16	97.4	July 3, 1950	T, G, 165	Irr	138	Pump set at 140 ft.
B-31	L. S. Griffin	Green Machinery Co.	1948	230	16	103.8	July 17, 1950	T, G, 165	Irr	90	

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
B-32	N. F. Cleavenger	Pioneer Drilling Co.	1950	200	18	94.6	July 17, 1950	T,G, 70	Irr	400	Pump set at 150 ft.
B-33	E. M. Gettys, Jr.	M. A. Patton	1940	213	15	b/90.9	Nov. 10, 1942	T,G	Irr	--	Pump: 8-in., 3-stage, set at 130 ft.
B-34	A. G. Barton	Consolidated Oil & Gas Co.	1947	200	16	--	--	T,G	Irr	250	
B-35	Ed Britt	--	--	--	--	--	--	T,G, 165	--	--	
B-36	A. C. Barton	Green Machinery Co.	1948	180	16	93.5	July 17, 1950	T,G, 165	Irr	100	Pump set at 135 ft.
B-37	do	--	1949	200	16	--	--	T,G	Irr	140	
B-38	B. J. Brockett	Peerless Pump Co.	1949	191	16	--	--	T,G	Irr	130	
B-39	A. C. Barton	Green Machinery Co.	1950	--	--	103.8	Oct. 16, 1950	T,G	Irr	100	Pump set at 140 ft.
B-40	do	Peerless Pump Co.	1948	200	16	--	--	T,G	Irr	120	
B-41	Mrs. P. Gettys	Green Machinery Co.	1950	224	16	--	--	T,G	Irr	--	Pump set at 136 ft.
B-42	A. C. Barton	Peerless Pump Co.	1948	200	16	--	--	T,G	Irr	175	
B-43	A. C. Gettys	M. A. Patton	1939	236	15	a/75	--	T,G	Irr	--	Casing perforated from 68 to 236 ft. Pump: 8-in., 3-stage, set at 130 ft. See log.
B-44	W. H. Priddy	-- Hornbrook	1949	200	16	--	--	T,G	Irr	160	Estimated discharge, 1,500 gpm on Sept. 19, 1950. Drilled to red beds.
B-45	Geo. W. Rice	Peerless Pump Co.	1947	200	16	--	--	T,G	Irr	150	
B-46	-- Packard	Green Machinery Co.	1942	224	16	a/84	Apr. 1942	T,G	Irr	--	Pump set at 108 ft.
B-47	W. H. Jones	do	1943	230	16	a/89	--	T,G	Irr	--	See log.
B-48	Roscoe Barton	Bradford Supply Co.	1939	217	13	92.7	Oct. 20, 1950	T,G, 110	Irr	--	Casing perforated from 90 to 127 ft.
B-49	J. A. Littleton	Peerless Pump Co.	1948	200	16	89.7	do	T,G, 125	Irr	--	
B-50	R. E. Barton	do	1947	200	16	--	--	--	--	--	Pump: 8-in., 3-stage, set at 140 ft.
B-51	J. W. Kelley	Green Machinery Co.	1948	217	16	94.1	Oct. 23, 1950	T,G	Irr	200	
B-52	Mrs. Ruby Hodge	do	1948	220	16	96.7	Oct. 20, 1950	T,G	Irr	--	See log.
B-53	A. C. Gettys	--	1945	200	16	--	--	T,G	Irr	190	
B-54	L. Z. Anglin	Peerless Pump Co.	1947	200	16	--	--	T,G	Irr	160	Pump set at 140 ft.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
B-55	L. Z. Anglin	Dale Smith	1948	215	16	99.8	Oct. 23, 1950	T,G	Irr	200	Altitude of land surface, 3,758.22 ft.
B-56	J. Boseman	Bradford Supply Co.	1938	244	15	68.0	--	T,G	--	--	Altitude of land surface, 3,757.34 ft. Water level 103.7 ft after 12 hours of pumping at approximately 1,000 gpm on June 7, 1938. See log.
B-57	H. F. Hodge	Green Machinery Co.	1950	234	16	87.9	Oct. 17, 1950	T,G	Irr	--	Altitude of land surface, 3,750.06 ft. See log.
B-58	W. C. Stout	-- Crawford	1950	200	16	--	--	T,G	Irr	320	Pump: 8-in., 3-stage, set at 140 ft.
B-59	do	do	1950	190	16	--	--	T,G	Irr	160	
B-60	B. F. Ortag	--	1950	205	16	80.2	Oct. 17, 1950	T,G	Irr	381	Measured discharge, 875 gpm on June 5, 1950.
B-61	do	--	1948	206	16	--	--	T,G	Irr	381	
B-62	W. C. Stout	Pete Marefield	1949	204	16	--	--	T,G	Irr	250	
B-63	do	-- Kirkland	1948	208	16	--	--	T,G	Irr	220	Pump: 10-in., set at 140 ft.
B-64	do	-- Crawford	1950	186	16	--	--	T,G	Irr	160	
B-65	S. H. Channing	Buster Cooper & Co.	1950	220	16	68.3	Oct. 18, 1950	T,G	Irr	140	Pump: 10-in. set at 120 ft; 55 ft of tail pipe.
B-66	C. L. Roberts	Green Machinery Co.	1949	202	16	a/52	Feb. 1949	T,G	Irr	--	
B-67	M. F. Wheatley	Peerless Pump Co.	1946	180	16	--	--	T,G	--	--	Pump: 8-in., 2-stage, lowered from 90 to 110 ft, Apr. 8, 1946.
B-68	Dewey Green	-- Hornbrook	1948	200	16	86.5	Oct. 18, 1950	T,G, 165	Irr	320	
B-69	W. C. Lee	Bradford Supply Co.	1937	200	15½	--	--	T,G	Irr	200	
B-70	S. H. Channing	-- Hornbrook	1949	225	16	70.3	Oct. 18, 1950	T,G, 96	Irr	100	Pump: 10-in. set at 138 ft, 83 ft of tail pipe.
B-71	C. P. Parish	Bradford Supply Co.	1937	193	15½	71.3 71.2	June 7, 1937 Oct. 18, 1950	T,G, 50	Irr	--	Discharge reported 1,000 gpm in March 1937.
B-72	-- Roddy	L. P. Davis Co.	1949	206	16	72.8	Oct. 19, 1950	T,G	Irr	250	Drawdown 34 ft on Oct. 23, 1950, after 48 hours of pumping, estimated 1,150 gpm.
B-73	W. Powell	--	--	--	--	--	--	T,-	--	--	
B-74	A. H. Mitchell	J. Crawford	1950	200	16	a/52	Feb. 1950	T,G	Irr	110	
B-75	Andrew Dutton	-- McDonald	1931	149	15	b/40.1	Oct. 28, 1936	T,G, 42	Irr	100	Water level 65 ft while pumping at approximately 775 gpm.
B-76	Rex Carrol	Peerless Pump Co.	1948	220	16	--	--	T,G, 165	Irr	--	Pump set at 140 ft.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
B-77	-- Carroll	--	--	--	--	--	--	T,G, 100	Irr	--	
B-78	E. R. Hawkins	Montgomery Ward	--	--	--	--	--	T,G	Irr	--	
B-79	H. W. Lewis	Peerless Pump Co.	--	207	16	--	--	T,G, 100	Irr	90	Pump: 8-in., set at 110 ft.
B-80	E. R. Hawkins	--	--	--	--	--	--	T,G	Irr	--	
B-81	Ewing Halsell	Green Machinery Co.	1938	185	16	--	--	T,G	Irr	--	Pump: 10-in., 1-stage, set at 72 ft. Estimated discharge, 1,300 gpm, June 9, 1938.
B-82	Halsell Cattle Co.	Kirkland-Ware	1945	200	16	--	--	T,G	Irr	160	
B-83	do	Green Machinery Co.	1938	160	16	a/20	Oct. 1950	T,G, 100	Irr	110	Pump set at 35 ft. Reported discharge, 2,500 gpm in June 1938.
B-84	J. W. Pierce	--	--	--	--	--	--	T,-	--	--	
B-85	J. J. Barlow	-- Sneed	1949	130	16	41.3	Oct. 19, 1950	T,G, 145	Irr	160	Pump: 10-in., 3-stage, set at 100 ft.
B-86	J. Laing	S. Ware	1948	175	16	a/35	1948	T,G	Irr	200	
B-87	do	Leo Koger	1940	104	16	35.7	Oct. 16, 1950	T,G, 95	Irr	--	Water level at 84 ft while pumping at 681 gpm on May 6, 1940. See log.
*B-88	Mrs. J. Lewis	-- Hornbrook	1949	187	16	50.0	Oct. 19, 1950	T,G	Irr	150	Water level 75.3 ft Mar. 31, 1952, after 75 hours of pumping at 750 gpm. Temp. 63°F.
B-89	Truman Stine	--	1950	187	16	a/51	1950	T,G, 165	Irr	--	
B-90	Marie C. Bock	Kirkland Co.	1948	218	16	65.0	1949	T,G	Irr	145	
B-91	H. Bock	--	1947	214	16	--	--	T,G	Irr	150	Pump set at 120 ft.
B-92	H. L. Evans	L. P. Davis	1946	185	16	63.1	Nov. 9, 1950	T,G, 165	Irr	160	
B-93	W. C. Stout	Pete Marefield	1948	204	16	a/67.0	--	T,G, 85	Irr	187	
B-94	G. W. Clark	Green Machinery Co.	1948	212	16	--	--	T,G	Irr	155	
B-95	W. O. Wood	--	1950	180 <sup>±</sup>	16	--	--	T,G	Irr	--	
B-96	A. E. Wheatley	-- Hornbrook	1950	200	16	a/50	Jan. 1950	T,G	Irr	80	
B-97	do	--	1945	196	16	--	--	T,G	Irr	125	
B-98	W. O. Wood	Bud Gibbons	1940	168	13	--	--	T,G	Irr	--	Casing: 13-in. to 110 ft., 10-in. to 50 ft. Pump: 8-in., 2-stage, set at 100 ft. See log.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
B-99	A. E. Wheatley	Green Machinery Co.	--	200	16	--	--	T, G	Irr	200	
B-100	J. W. Kelly	Peerless Pump Co.	1920	--	--	62.5	Oct. 23, 1950	T, G	Irr	200	
B-101	M. E. Kelly	Green Machinery Co.	--	--	--	69.9	Oct. 20, 1950	T, G	Irr	--	
B-102	J. W. Kelly	do	1948	215	16	70.9	Oct. 23, 1950	T, G	Irr	160	
B-103	Carl Seymour	S. J. Tarkenton	1940	150	16	63.1	Oct. 11, 1950	T, G, 95	Irr	--	See log. Altitude of land surface, 3,716.44 ft. Casing: 16-in. to 48 ft. Pump set at 100 ft. See log.
B-104	do	--	--	--	--	--	--	T, G	Irr	--	
B-105	M. E. Kelly	Green Machinery Co.	Old	180	16	80.5	Oct. 20, 1950	T, G	Irr	--	
B-106	G. E. McNeill	do	1949	210	16	86.3	do	T, G	Irr	--	Pump: 8-in. 3-stage, set at 140 ft.
B-107	Elvis Clayton	--	--	--	--	--	--	E	Irr	--	
B-108	John Laing	Green Machinery Co.	1949	200	16	64.8	Nov. 8, 1950	T, G	Irr	280	
B-109	Mrs. Lena Hyte	do	1946	200	16	a/60.0	--	T, G	--	--	
B-110	Sam Cearley	Consolidated Oil & Gas Co.	1946	200	16	--	--	T, G	Irr	150	
B-111	John Laing	--	--	200	16	--	--	T, G	Irr	--	
B-112	S. O. Ellis	Green Machinery Co.	1948	200	16	95.9	Oct. 20, 1950	T, G	Irr	100	Pump set at 140 ft.
B-113	W. H. Jones	Earl Crabble	1945	208	--	a/77	--	T, G, 100	Irr	--	
B-114	Mrs. J. F. Kelly	Consolidated Oil & Gas Co.	1947	200	16	--	--	T, G	Irr	150	
B-115	do	--	1939	189	13	--	--	T, G, 100	Irr	150	Estimated discharge, 875 gpm on Oct. 18, 1950.
*B-116	do	Peerless Pump Co.	1936	180	16, 10	a/70	--	T, G	Irr	150	Casing: 16-in. to 105 ft. 10-in. to 180 ft. Temp. 63°F.
B-117	Sam Cearley	Consolidated Oil & Gas Co.	1946	200	16	--	--	T, G	Irr	140	
B-118	A. E. Wheatley	Green Machinery Co.	1943	200	16	--	--	T, G	Irr	--	See log.
B-119	Joel E. Jones	Earl Crabble	1945	200	16	--	--	T, G, 145	Irr	150	
B-120	Carl Seymour	--	1941	200	14	--	--	T, G, 110	Irr	160	



Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
B-121	T. P. Huff	Bradford Supply Co.	1938	200	16	--	--	T,G, 165	Irr	160	Pump set at 145 ft.
B-122	Roy Woods	Green Machinery Co.	1941	220	16	89.4	Aug. 14, 1942	T,G, 95	Irr	160	See log.
B-123	do	do	1943	215	16	--	--	T,G	Irr	--	
B-124	Forest J. Whitford	do	1944	215	16	--	--	T,E, 40	Irr	150	
B-125	L. T. Smith	Peerless Pump Co.	1949	209	16	--	--	T,E	Irr	120	Pump: 8-in., 4-stage, set at 120 ft.
B-126	W. P. Uhlenhop	Green Machinery Co.	1950	200	16	82.4	Oct. 11, 1950	T,G	Irr	115	
B-127	J. E. Busby	-- Davis	1948	207	16	69.3	Oct. 10, 1950	T,G	Irr	210	
B-128	do	Consolidated Oil & Gas Co.	1947	200	16	a/66	July 1950	T,G	Irr	215	Estimated discharge, 950 gpm on Oct. 10, 1952.
B-129	A. C. Bell	Green Machinery Co.	1948	215	16	58.4	Oct. 10, 1950	T,G	Irr	--	
B-130	L. Halsell	Garland Motor Co.	1947	200	16	--	--	T,G	Irr	250	Pump set at 130 ft.
B-131	Neill Duffy	-- Harmon	1949	209	16	--	--	T,G, 100	Irr	200	
B-132	Forest Somins	S. Ware	1943	200	16	--	--	T,G	Irr	160	Reported discharge, 1,000 gpm in 1943.
B-133	R. Spann	Green Machinery Co.	1948	--	--	--	--	T,G	Irr	80	
B-134	Neill Duffy	--	1949	200	16	74.4	Oct. 11, 1950	T,G	Irr	--	
B-135	R. C. Hyde	-- Glaspie	1949	200	16	--	--	T,G, 100	Irr	130	
B-136	J. B. Northcott	-- Bradford	1949	200	16	--	--	T,G, 100	Irr	120	
B-137	A. W. Gover	-- Green	1948	185	16	49.6	Oct. 11, 1950	T,G, 100	Irr	100	Measured discharge, 720 gpm on Mar. 31, 1952. Pump set at 90 ft.
B-138	do	Bud Gibbons	1940	152	16	b/43.4	Feb. 23, 1943	T,G, 95	Irr	120	Well deepened from 153 ft in 1949. Pump set at 100 ft. See log.
B-139	L. C. Graham	Peerless Pump Co.	1948	200	16	64.0	Oct. 11, 1950	T,G	Irr	110	
B-140	N. Ray Kelly	--	1947	180	16	--	--	T,G	Irr	78	Reported drawdown, 18 ft while pumping 1,000 gpm in 1947.
B-141	do	Green Machinery Co.	1948	188	16	--	--	T,G, 100	Irr	178	
B-142	Mrs. -- Terry	--	--	--	--	--	--	T,G	--	--	
B-143	A. W. Gover	Bradford Supply Co.	1948	200	16	49.0	Oct. 11, 1950	T,G, 100	Irr	80	

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
B-144	T. L. Free	Bud Gibbons	1947	211	16	--	--	T, G	Irr	200	Pump set at 90 ft.
B-145	Mrs. -- Terry	Consolidated Oil & Gas Co.	1947	201	16	a/56.8	Oct. 1950	T, G	Irr	--	Casing perforated from 60 to 201 ft.
B-146	A. A. Parish	-- Hornbrook	1949	173	16	68.1	Oct. 11, 1950	T, G	Irr	35	Red beds at 171 ft.
B-147	N. Duffy	C. Harmon	1948	200	16	--	--	T, G	Irr	--	
B-148	do	do	1948	200	16	--	--	T, G	--	260	Pump set at 120 ft.
B-149	A. A. Parish	Clowe & Cowan	1948	180	16	25.8	Oct. 11, 1950	T, --	Irr	35	Altitude of land surface, 3,677.60 ft. Pump set at 80 ft. Red beds at 178 ft.
B-150	do	L. P. Davis	1946	160	16	9.8 10.1	Oct. 11, 1950 June 21, 1951	T, E, 40	Irr	80	Altitude of land surface, 3,663.31 ft. Red beds at 159 ft. Water level 42 ft while pumping at 1,560 gpm on May 29, 1952.
B-151	do	Bradford Supply Co.	1945	180	16	b/37.1	Feb. 28, 1946	T, G	Irr	--	Pump: 8-in., 2-stage, set at 60 ft.
B-152	Cecil Parish	Shorty Ware	1945	180	16	a/40	1945	T, G	Irr	--	
*B-153	Halsell Land & Cattle Co.	Green Machinery Co.	--	--	16	a/40	Oct. 1950	T, G	Irr	300	Measured discharge, 584 gpm on May 5, 1952. Temp. 63° F.
B-154	do	C. Harmon	1949	--	16	39.9	Oct. 12, 1950	T, G	Irr	350	
B-155	do	--	1948	--	16	36.7	do	T, G	Irr	50	
B-156	do	-- McDonald	1925	125	--	--	--	T, --	N	--	
B-157	-- Tipps	--	1948	--	--	.39.0	Oct. 11, 1950	T, G, 85	Irr	--	
*B-158	Virgil Lewis	Consolidated Oil & Gas Co.	1947	173	16	a/41	Feb. 1947	T, G	Irr	--	Casing perforated from 50 to 173 ft. Water level at 62.1 ft after 6 hours of pumping at 705 gpm May 5, 1952. Temp. 63° F. See log.
B-159	T. L. Free	Bradford Supply Co.	1949	199	16	--	--	T, G	Irr	--	
B-160	Bruce Higgins	Van Pate	1941	150	--	b/48.2	Aug. 14, 1942	T, G	Irr	--	Pump: 8-in., 2-stage, set at 90 ft.
B-161	F. B. Bills	-- Crawford	1950	200	16	54.9	do	T, G	Irr	100	
B-162	H. Halsell	--	--	--	--	--	--	T, G	--	--	
B-163	J. E. Busby	L. P. Davis	1948	207	16	59.2	Oct. 10, 1950	T, G, 165	Irr	--	Pump: 8-in., 2-stage, set at 120 ft.
B-164	-- Fanning	--	--	--	--	49.1	Oct. 12, 1950	T, G, 100	Irr	--	
B-165	Southwestern Public Service Co.	D. L. McDonald	1950	200	7	35.4 33.7	Nov. 10, 1952 Mar. 3, 1953	None	N	--	Altitude of land surface, 3,685.95 ft. Test well. See log.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
B-166	Southwestern Public Service Co.	D. L. McDonald	1950	202	10	28.2	Jan. 10, 1951	None	N	--	Altitude of land surface, 3,662.87 ft. Observation well equipped with recording gage. See log.
B-167	do	do	1950	207	7	34.9	Nov. 3, 1952	None	N	--	Altitude of land surface, 3,674.1 ft. Test well. See log.
B-168	do	do	1950	190	7	a/31	Oct. 1950	None	N	--	Altitude of land surface, 3,676.3 ft. Test well. Casing: 7-in. to 177 ft. See log.
*B-169	do	do	1950	193	14	29.3	May 1, 1952	T,E, 40	Ind	--	Altitude of land surface, 3,687.51 ft. Casing perforated from 98 to 190 ft. Pump: 6-in., set at 174.5 ft. Drawdown 20 ft while pumping at 1,000 gpm in 1950. See log.
B-170	do	do	1951	203	14	b/35.6	Apr. 18, 1952	T,E, 40	Ind	--	Altitude of land surface, 3,676.65 ft. Drawdown 9.1 ft after 91 minutes of pumping at 594 gpm June 26, 1952. See log.
B-171	do	do	1951	196	14	33.0 36.4 34.8 34.7	Apr. 29, 1952 Nov. 10 Dec. 8 Mar. 3, 1953	T,E, 40	Ind	--	Altitude of land surface, 3,686.18 ft. Gravel-packed well. See log.
*B-172	do	do	1951	193	14	28.3	Apr. 12, 1952	T,E, 40	Ind	--	Pump: 6-in., 5-stage, set at 164.5 ft. Drawdown 22 ft while pumping at 1,000 gpm. See log.
C-1	W. M. Kirkpatrick	Green Machinery Co.	1949	240	16	94.3	July 3, 1950	T,G, 145	Irr	138	Pump set at 140 ft.
C-2	O. T. Loftis	do	1941	202	--	92.9	June 30, 1950	T,G, 100	Irr	150	See log.
C-3	R. J. Sanderson	Consolidated Oil & Gas Co.	1947	218	16	95.9	Sept. 17, 1950	T,G	Irr	--	Pump: 10-in., 2-stage, set at 130 ft.
C-4	do	L. P. Davis	1950	210	16	100.9	Oct. 16, 1950	T,G	Irr	--	
C-5	T. E. Alairs	--- Green	1950	200	16	a/100	Oct. 1950	T,G, 165	Irr	120	
C-6	Willis White	do	1948	215	16	---	--	T,G	Irr	180	Pump: 8-in., set at 140 ft.
C-7	Louis Bolinger	Plainview Welding Supply	1947	215	16	108.5	July 7, 1950	T,G, 125	Irr	158	
C-8	G. T. Abbott	Green Machinery Co.	1950	220	16	104.7	July 3, 1950	T,-	Irr	140	
C-9	E. W. Worrell	do	1942	200	16	--	--	T,G, 120	Irr	210	Estimated discharge, 900 gpm June 29, 1950.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
C-10	Cecil Parish	--	--	--	16	102.1 92.1	June 30, 1950 Oct. 13, 1950	T,G, 145	Irr	130	
C-11	Louis Bolinger	Green Machinery Co.	1945	212	16	107.0	July 7, 1950	T,G, 165	Irr	160	Pump: 8-in., 3-stage, set at 130 ft.
C-12	H. W. Ogletree	--	1948	208	16	101.2	July 3, 1950	T,G, 165	Irr	127	
C-13	J. L. Henson	-- Bogle	1949	200	18	103.3	July 5, 1950	T,G, 93	Irr	160	
C-14	Charlie Jones	Tadlock Drilling Co.	1947	200	16	105.5	July 17, 1950	T,G, 72	Irr	240	
C-15	Delva M. Hoose	-- Stapleton	1948	218	16	99.8	Nov. 9, 1950	T,G, 145	Irr	130	
C-16	W. L. Bolinger	Plainview Welding Co.	1947	215	18	104.6 103.5	July 3, 1950 Oct. 13, 1950	T,G, 165	Irr	160	Casing: 18-in. to 210 ft. Pump: 8-in., 4-stage, set at 130 ft. Water level at 133.5 ft Apr. 2, 1952, after 56 hours of pumping at 1,004 gpm.
C-17	T. B. Dyer	Consolidated Oil & Gas Co.	1947	203	16	97.0	Oct. 13, 1950	T,G	Irr	140	
C-18	Homer Durham	Green Machinery Co.	1949	214	16	113.8	June 29, 1950	T,G, 165	Irr	150	
C-19	Pete Parish	M. A. Patton	1939	200	16	--	--	T,G	Irr	--	
C-20	N. F. Cleavanger	-- Sima	1947	--	--	110.0	June 29, 1950	T,G, 165	Irr	200	
C-21	F. Riley	Green Machinery Co.	1943	200	16	113.4	do	T,G, 145	Irr	145	Pump set at 130 ft. Measured discharge, 800 gpm Apr. 2, 1952. Temp. 63 F. See log.
C-22	L. W. Watson	Peerless Pump Co.	1948	208	16	--	--	T,G	Irr	--	Casing: 16-in., perforated from 65 to 208 ft.
C-23	D. H. Schilling	do	1947	200	16	113.7	June 29, 1950	T,G, 65	Irr	180	
C-24	M. R. Cavett	Consolidated Oil & Gas Co.	--	--	--	--	--	T,G	--	--	
C-25	W. T. Hackler	do	1948	198	16	90.0	--	T,G	--	--	
C-26	do	-- Adams	1950	204	16	101.3	June 15, 1950	T,G, 95	Irr	80	
C-27	E. B. McDowell	Consolidated Oil & Gas Co.	1948	200	16	83	--	T,G	Irr	--	Pump: 8-in., 3-stage, set at 140 ft.
C-28	do	Green Machinery Co.	1949	200	16	103.0	June 15, 1950	T,G, 165	Irr	132	Estimated discharge, 900 gpm June 13, 1950.
C-29	B. F. Campbell	Consolidated Oil & Gas Co.	1947	200	16	--	--	T,G	Irr	160	
C-30	W. T. Hackler	L. F. Davis	1942	204	16	95.8	June 15, 1950	T,G, 175	Irr	200	

Table 8.-- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
C-31	E. B. McDowell	Melvin Greshaw	1937	204	16	b/86.7	Mar. 11, 1949	T, G	Irr	--	Water level at 102.7 ft after 5 hours of pumping at 1,034 gpm Sept. 21, 1939.
C-32	B. C. Cooner	--	--	--	--	--	--	T, --	--	--	--
C-33	B. F. Campbell Estate	Consolidated Oil & Gas Co.	1949	200	16	--	--	T, G	Irr	160	--
C-34	W. E. Miller	B. Fish	1950	200	16	94.0	June 14, 1950	T, G, 95	Irr	140	--
C-35	do	L. P. Davis	1948	200	18	--	--	T, G, 175	Irr	300	Pump set at 132 ft.
C-36	do	Green Machinery Co.	1949	200	16	--	--	T, G	Irr	155	--
C-37	Jeff Dickey	do	1949	200	16	a/92	1949	T, G	Irr	185	--
C-38	O. B. Durham	do	--	230	16	80.4	Nov. 3, 1950	T, G	Irr	--	Water level at 96.1 ft Apr. 2, 1952 after 52 hours of pumping at 680 gpm. Temp. 63.5°F.
C-39	A. Oursbourn	Consolidated Oil & Gas Co.	1947	210	16	a/78.0	1947	T, G	Irr	--	Pump: 8-in., 3-stage, set at 130 ft. See log.
C-40	T. C. Smith	J. T. Glaspie	1946	240	14	88.0	Oct. 26, 1950	T, G, 165	Irr	--	Reported discharge, 900 gpm.
C-41	Mrs. N. Meinicke	Green Machinery Co.	1945	200	16	92.9	do	T, G, 165	Irr	320	--
C-42	W. P. Sampler	do	1949	210	16	89.0	do	T, G	Irr	--	--
C-43	John Lilly	L. P. Davis	1946	263	16	a/80.0	1946	T, G	Irr	160	Casing: 16-in. to 227 ft. Pump: 10-in., 3-stage, set at 132 ft. Reported discharge, 1,000 gpm Oct. 26, 1950.
C-44	H. Leveritt	do	1947	200±	16	79.2	Oct. 26, 1950	T, --	Irr	--	--
C-45	do	do	1950	200	16	--	--	T, G	Irr	--	--
C-46	E. B. McDowell	do	1950	200	16	--	--	T, G	Irr	--	--
C-47	Jeff Gunter	Green Machinery Co.	1948	200	16	--	--	T, G, 185	Irr	75	Estimated discharge, 950 gpm June 2, 1950.
C-48	O. K. Woodall	do	1950	200	16	--	--	T, G, 185	Irr	85	Estimated discharge, 1,200 gpm June 2, 1950.
C-49	John Lambright	Consolidated Oil & Gas Co.	1948	203	16	--	--	T, G	--	--	--
C-50	do	do	1947	199	16	a/82	1947	T, G, 125	Irr	--	--
C-51	W. Wainwright	do	1950	198	16	b/96.3	Mar. 11, 1949	T, G	Irr	--	--
C-52	J. F. Miller	L. P. Davis	1948	203	16	104.9	June 14, 1950	T, G, 175	Irr	160	Estimated discharge, 1,300 gpm June 4, 1950.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
C-53	Gene Wilson	--	---	---	--	93.8	Nov. 3, 1950	T,G	Irr	---	
C-54	J. F. Miller	B. Fish	1950	205	16	100.2	June 14, 1950	T,G, 95	Irr	160	Estimated discharge 900 gpm June 14, 1950. Pump set at 132 ft.
C-55	-- De Wilks	---	1948	200	16	109.6	June 15, 1950	T,G, 165	Irr	160	
C-56	H. E. Owens	L. P. Davis	1948	243	16	110.9	May 15, 1950	T,G, 175	Irr	200	
C-57	do	Peerless Pump Co.	1943	220	16	113.2	do	T,G, 100	Irr	200	
C-58	Fred Schaefer	Green Machinery Co.	1942	227	16	112.2	June 15, 1950	T,G, 67	Irr	208	See log.
C-59	J. C. Ogletree	--	1947	200	16	99.3	do	T,G	Irr	130	
C-60	Marshall Covett	Peerless Pump Co.	1945	220	16	--	--	T,G	Irr	--	Pump: 8-in., 3-stage, set at 130 ft.
C-61	R. V. Padon	Green Machinery Co.	1946	224	18	105.7	June 29, 1950	T,G, 165	Irr	200	
C-62	Robert C. McGinnis	Kirkland Pump Co.	1946	220	18	106.0	June 28, 1950	T,G, 115	Irr	145	
C-63	do	do	1948	222	18	a/97	Aug. 1948	T,G, 145	Irr	140	
C-64	W. T. Clayton	--	1950	245	16	--	--	T,G	Irr	--	Pump: 8-in., 4-stage, set at 160 ft.
C-65	F. E. Cook	Green Machinery Co.	1945	224	16	--	--	T,G, 115	Irr	210	See log.
C-66	L. G. Watson	-- Kirkland	1945	238	16	--	--	T,G, 165	Irr	240	
C-67	Delva M. Hoose	Stapleton Bros.	1947	238	16	101.9	July 3, 1950	T,G, 145	Irr	130	
C-68	N. F. Cleavinger	M. A. Patton	1937	215	15½	b/101.3	Sept. 3, 1940	T,G	Irr	275	
C-69	H. T. Jones	Fairbanks-Morse	1950	201	16	107.6	do	T,G, 140	Irr	140	
C-70	do	Green Machinery Co.	1945	200	16	107.8	July 17, 1950	T,G, 165	Irr	140	
C-71	Gettys Bros.	Peerless Pump Co.	--	200	16	117.7	do	T,G	Irr	158	
*C-72	E. M. Gettys	R. D. Sawyer	1937	224	15	b/87.6	Nov. 10, 1942	T,-	Irr	160	Estimated discharge, 1,000 gpm, Mar. 31, 1947. Temp. 63°F.
C-73	Mrs. P. R. Gettys	Bradford Supply Co.	1939	170	13	a/75	Feb. 1937	T,-	Irr	--	
C-74	Gettys Bros.	H. P. Price	1941	230	15	b/94.0	Aug. 13, 1942	T,G, 85	Irr	--	Pump: 8-in., 3-stage, set at 150 ft. See log.



Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
C-75	A. A. Parish	-- Hornbrook	1948	250	18	97.6	July 3, 1950	T,G	Irr	185	
C-76	do	--	1938	242	13	--	--	T,G, 165	Irr	140	Estimated discharge, 900 gpm July 5, 1950. See log.
C-77	-- James	Peerless Pump Co.	1940	240	15½	a/70	July 1940	T,G, 95	Irr	--	
C-78	A. A. Parish	-- Hornbrook	1950	250	18	89.5	July 3, 1950	T,G, 100	Irr	160	
C-79	do	Shorty Ware	1946	250	18	104.4	do	T,G, 100	Irr	220	
C-80	O. W. Sikes	do	1947	256	16	--	--	T,G	Irr	140	Reported discharge, 800 gpm in 1947.
C-81	Mrs. Leona O. Packard	Consolidated Oil & Gas Co.	1947	240	16	100.5	July 5, 1950	T,G, 110	Irr	210	Pump set at 120 ft.
C-82	W. T. Clayton	Peerless Pump Co.	1947	246	16	109.4	June 28, 1950	T,G, 125	Irr	320	
C-83	-- Edwards	--	--	--	--	--	--	T,G, 100	--	--	
C-84	L. V. Kirkpatrick	Green Machinery Co.	1947	224	16	93.9	June 28, 1950	T,G, 110	Irr	110	
C-85	E. G. Gardner	do	1939	203	16	89.0 88.0	Sept. 21, 1939 Aug. 29, 1940	T,G, 95	Irr	180	Casing: 16-in., shutter-type perforations. Red beds reported at 200 ft. See log.
C-86	Church Edgin	do	1948	200	16	93.5 95.2	June 16, 1950 Oct. 10, 1950	T,G, 145	Irr	156	
C-87	C. C. Williams	do	1947	227	16	93.8	June 20, 1950	T,G, 145	Irr	140	
C-88	E. W. Simmons	Earl Crabble	1945	200	16	108.4	June 15, 1950	T,G, 145	Irr	160	Pump: 8-in., 3-stage, set at 140 ft. See log.
C-89	do	--	1945	200	16	109.9	do	T,G, 145	Irr	160	
C-90	do	Consolidated Oil & Gas Co.	--	200	16	--	--	T,G	Irr	160	
C-91	do	-- Fisher	1950	200	16	115.5	May 15, 1950	T,G, 145	Irr	160	
C-92	Raymond Lyons	--	1948	200	16	--	--	--	Irr	160	Pump set at 140 ft. Estimated discharge, 900 gpm June 16, 1950.
C-93	W. P. Heckler	Consolidated Oil & Gas Co.	1947	200	16	a/70	--	T,G	Irr	--	
C-94	Jack Silcop	Green Machinery Co.	1949	160	16	112.9	June 15, 1950	T,G, 145	Irr	240	
C-95	S. Clements	A. W. Fish	1949	340	16	--	--	T,G, 150	Irr	500	Reported discharge, 1,650 gpm in March 1949.
C-96	W. F. Jolly	-- Richardson	1947	200	16	--	--	T,G, 100	Irr	155	Estimated discharge, 900 gpm June 2, 1950.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
C-97	E. M. Jolly	--	1947	200	16	--	--	T,G, 143	Irr	170	Temp. 63°F.
C-98	J. T. Jolly	--	1949	200	16	--	--	T,G, 165	Irr	150	
C-99	do	--	--	203	16	101.9	Oct. 13, 1950	T,G, 143	Irr	150	Pump set at 130 ft.
C-100	D. B. Barker	Green Machinery Co.	1948	200	16	--	--	T,G, 145	Irr	160	Pump: 8-in., set at 150 ft. Estimated discharge, 950 gpm May 31, 1950.
C-101	do	do	1950	200	16	105.9	Oct. 13, 1950	T,G, 145	Irr	160	Measured discharge, 925 gpm May 31, 1950.
C-102	Mrs. G. A. Bench	-- Johnston	1947	205	16	--	--	T,G, 105	Irr	142	
C-103	J. Capehart	Consolidated Oil & Gas Co.	1948	203	16	--	--	T,-	Irr	--	
C-104	Jack Edwards	Green Machinery Co.	1945	208	16	a/80	Oct. 1945	T,G, 120	Irr	120	Estimated discharge, 900 gpm June 2, 1950.
C-105	Mrs. A. M. McGill	Consolidated Oil & Gas Co.	1948	164	16	--	--	T,G	Irr	--	Casing perforated from 84 to 164 ft.
C-106	C. W. Phillips	L. P. Davis & Co.	1948	200	16	100.0	Oct. 9, 1950	T,G, 145	Irr	80	
C-107	H. P. Webb	do	--	240	16	98.7	June 16, 1950	T,G, 175	Irr	200	
C-108	W. P. Hedges	Montgomery-Ward	1948	200	16	99.1	June 19, 1950	T,G, 165	Irr	160	Measured discharge, 850 gpm June 16, 1950.
C-109	G. R. Smith	-- Newman	1947	276	16	108.6	June 16, 1950	T,G, 175	Irr	200	
C-110	Mrs. J. M. Coventry	Green Machinery Co.	1949	200	16	--	--	T,G, 165	Irr	200	
C-111	D. D. Coventry	do	1943	200	16	95.7	June 19, 1950	T,G, 165	Irr	60	Pump: 8-in., 3-stage, set at 110 ft. See log.
C-112	J. T. Rucker	Layne-Bowler Co.	1948	200	16	93.7	Oct. 10, 1950	T,G, 165	--	--	
C-113	A. Hollingsworth	Green Machinery Co.	1945	220	16	--	--	T,G	Irr	160	
C-114	Elmer King	Peerless Pump Co.	1948	238	16	a/72	1948	T,G, 145	Irr	100	Casing: 16-in. to 210 ft. Measured discharge, 950 gpm June 16, 1950.
C-115	W. T. Clayton	do	1946	--	--	--	--	T,G	--	--	
C-116	P. F. Stamp	Green Machinery Co.	1948	230	18	92.6	July 5, 1950	T,G, 145	Irr	220	
C-117	W. T. Clayton	Peerless Pump Co.	1944	200	16	--	--	T,G, 93	--	--	
C-118	W. O. Watson	--	1945	210	16	--	--	T,G	Irr	--	

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
*C-119	A. A. Parish	Bradford Supply Co.	1937	220	15½	b/69.1	June 24, 1937	T,E, 40	Irr	--	Water level 80.8 ft after 2 hours of pumping at approximately 800 gpm Sept. 15, 1939. Measured discharge, 820 gpm Sept. 24, 1951.
C-120	R. L. Drake	Dent Bros.	1939	225	14	92.1 91.6	June 16, 1950 Oct. 16, 1950	T,G, 95	Irr	--	Pump: 8-in., 3-stage, set at 120 ft.
C-121	Miss Inez Ott	Green Machinery Co.	1941	227	16	91.6	Oct. 16, 1950	T,G, 95	Irr	160	See log.
C-122	A. Hollingsworth	C. P. Davis	1949	260	16	97.4	Nov. 9, 1950	T,G	Irr	85	Casing: 16-in. to 250 ft.
C-123	E. A. Hestand	Green Machinery Co.	1949	200	16	87.5	Oct. 16, 1950	T,G	Irr	--	
C-124	Steve D. Struve	Bradford Supply Co.	1939	211	14	81.1 84.9	Sept. 3, 1940 Oct. 10, 1950	T,G, 95	Irr	280	Water level at 114 ft after 17 hours of pumping at 890 gpm Aug. 28, 1940. See log.
C-125	A. Whitford	Green Machinery Co.	1948	200	16	--	--	T,G	Irr	140	
C-126	E. H. Green	do	1950	200	16	--	--	T,G	N	--	Not used in 1950.
C-127	B. Orteg	--	1949	200	16	--	--	T,G	Irr	135	Measured discharge, 655 gpm Mar. 31, 1952.
C-128	H. R. Davis	L. E. Ware	1949	200	16	a/61	1949	T,G	Irr	160	
*C-129	A. C. Loftus	-- Haynes	--	200	16	a/60	1946	T,G	Irr	120	Water level at 110.9 ft Apr. 2, 1952, after 57 hours of pumping at 942 gpm. Temp. 62.5 F.
C-130	Perry Leverett	--	1944	208	16	--	--	T,G	Irr	85	
C-131	J. Griffin	Peerless Pump Co.	1948	200	16	--	--	T,G, 140	Irr	120	Reported discharge, 800 gpm Oct. 10, 1950.
C-132	F. Boseman	--	--	--	16	82.8	Oct. 12, 1950	T,G	Irr	--	
C-133	W. L. Farris	--	1947	200	16	--	--	T,G	Irr	136	
C-134	T. H. Benton	--	1948	230	16	--	--	T,G, 145	Irr	146	
C-135	C. E. Brock	Green Machinery Co.	1944	202	16	a/82	Dec. 1944	T,G, 165	Irr	--	See log.
C-136	Ellis Jones	-- Fish	1950	220	16	--	--	T,G, 165	Irr	--	Estimated discharge, 950 gpm May 29, 1950.
C-137	W. O. Watson	Peerless Pump Co.	1940	205	16	a/90	--	--	Irr	313	Casing perforated from 94 to 205 ft. See log.
C-138	G. W. Simmons	Garland Motor Co.	1946	238	18	100.0	June 27, 1950	T,G, 115	Irr	240	Pump set at 140 ft.
C-139	Miss N. F. Davis	Green Machinery Co.	1950	220	16	104.1	June 8, 1950	T,G, 150	Irr	160	

Table 81- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
C-140	A. J. Paulk	Green Machinery Co.	1949	225	16	a/81.0	Jan. 1949	T,G, 145	Irr	240	
C-141	N. J. Shaw	---	1947	200	16	108.1	Oct. 10, 1950	T,G, 145	Irr	300	
C-142	L. D. Smith	Green Machinery Co.	1950	200	18	--	--	T,G, 145	Irr	160	
C-143	W. H. Britton	--- Scoggins	1946	204	16	a/98	1946	T,G, 125	Irr	94	Estimated discharge, 900 gpm June 19, 1950.
C-144	J. C. Dear	Green Machinery Co.	1948	215	16	--	--	T,G, 165	Irr	120	
C-145	J. O. Bledsoe	do	1943	204	16	103.5	June 19, 1950	T,G, 95	Irr	40	
C-146	H. L. Bledsoe	do	1943	200	16	a/85	--	T,G	Irr	140	Casing perforated from 85 to 200 ft. See log.
C-147	L. D. Smith	do	1942	200	18	a/94	--	T,G, 145	Irr	160	Estimated discharge, 1,100 gpm June 26, 1950.
C-148	do	Consolidated Oil & Gas Co.	1948	168	16	103	Nov. 3, 1950	T,G	Irr	--	Pump: 8-in., 3-stage, set at 130 ft.
C-149	Lee Poteet	do	1947	240	16	a/97	1947	T,G	Irr	--	
C-150	C. W. Phillips	Davis & Son	1946	205	16	a/96	1946	T,G, 175	Irr	183	
C-151	Hair Bros.	Consolidated Oil & Gas Co.	1950	199	16	--	--	T,G, 145	--	--	
C-152	Otis Hair	do	1946	202	16	--	--	T,G	--	--	Red beds at 190 ft.
C-153	Earl Hysinger	Charles Robertson	1949	198	16	--	--	T,G, 100	Irr	85	Casing perforated from 88 to 198 ft.
C-154	G. D. Daughtry	Consolidated Oil & Gas Co.	1948	194	16	---	--	T,G, 165	Irr	--	
C-155	do	do	1946	199	16	a/83	1946	T,-	--	--	
C-156	W. T. Hankings	Green Machinery Co.	1946	211	16	94.5	Oct. 13, 1950	T,G, 145	Irr	140	Water level at 121.6 ft May 31, 1950, after 72 hours of pumping at 900 gpm.
C-157	J. T. Walthall	L. Ellis	1941	200	16	68	Aug. 12, 1942	T,G, 93	Irr	--	Drawdown 30 ft after 48 hours of pumping at 1,300 gpm.
C-158	Earl Holly	--- Fish	1950	200	16	104.1	Oct. 13, 1950	T,G, 95	Irr	150	
C-159	C. B. Fancher	Green Machinery Co.	1947	228	16	a/100	1947	T,G, 145	Irr	130	
C-160	E. L. Fancher	do	1948	220	16	a/93	--	T,G, 143	Irr	200	
C-161	L. B. Cowart	Consolidated Oil & Gas Co.	1947	200	16	109.2	Oct. 13, 1950	T,G	Irr	100	Measured discharge, 902 gpm Apr. 4, 1951.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
C-162	J. M. Crawford	--	1947	220	16	<u>a</u> /100	1947	T,G, 145	Irr	160	
C-163	C. B. Hines	J. C. Cook	1935	180	--	--	--	None	N	--	Well caved in; abandoned in 1947.
C-164	E. S. Huckabee	Consolidated Oil & Gas Co.	1947	200	16	107.5	Oct. 13, 1950	T,G, 165	Irr	145	Pump set at 130 ft.
C-165	Witt Lacewell	--	1946	204	16	--	--	T,G, 145	Irr	158	
C-166	R. G. DeBerry	Baker Pump Co.	1935	200	16	--	--	T,G, 165	Irr	160	
C-167	R. W. Schaeffer	H. O. Tye	1941	185	16	<u>b</u> /82.2	Nov. 9, 1942	T,G, 165	Irr	135	Water level at 95 ft while pumping at 1,250 gpm Sept. 15, 1952.
C-168	C. B. Hines	Consolidated Oil & Gas Co.	1947	206	16	<u>a</u> /84.5	Feb. 1947	T,G, 165	Irr	120	
C-169	Mrs. Van Pelt	--	1949	200	16	--	--	T,G, 165	Irr	150	
C-170	Mrs. J. C. Hysinger	Chas. Robertson	1947	200	16	--	--	T,G, 100	Irr	160	
C-171	Earl Hysinger	do	1948	200	16	--	--	T,G, 165	Irr	160	
C-172	C. B. and I. O. Scott	-- Scoggins	1943	200	16	<u>a</u> /84	1943	T,G, 145	Irr	200	Pump set at 120 ft.
C-173	I. H. Avery	Consolidated Oil & Gas Co.	1948	198	16	--	--	T,G	Irr	--	
C-174	J. A. Hair	do	1947	199	16	--	--	--	Irr	--	
C-175	H. G. Walker	--	1948	248	16	<u>a</u> /78	1948	T,G, 175	Irr	170	Casing: 16-in., to 239 ft. Drilled to red beds.
C-176	N. J. Shaw	Consolidated Oil & Gas Co.	1947	200	18	--	--	T,G, 165	Irr	--	
C-177	Geo. E. Brown	--	1948	240	18	102.9	Oct. 10, 1950	T,G, 50	Irr	320	
C-178	Guy Vaughn	Consolidated Oil & Gas Co.	1946	201	16	99.5	June 27, 1950	T,G	Irr	--	Pump: 8-in., 3-stage, set at 140 ft. (Pump set at 120 ft, November 1945.) See log.
C-179	Mrs. G. C. Bearden, Sr.	Peerless Pump Co.	1945	200	16	99.8	do	T,G, 125	Irr	160	
C-180	Mrs. G. C. Bearden	do	1949	247	16	--	--	T,G, 125	Irr	160	
C-181	D. C. Sumner	do	1946	209	16	--	--	T,G, 125	Irr	149	
C-182	W. T. Cunningham	Consolidated Oil & Gas Co.	1949	204	16	--	--	T,G	Irr	--	
C-183	J. P. Gibson	do	1947	212	16	<u>a</u> /64.0	--	T,G, 145	Irr	160	
C-184	A. D. Taylor	--	1937	--	16	--	--	T,G, 100	Irr	164	

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
C-185	-- Cooper	--	--	--	--	75.7	Oct. 10, 1950	T,G	Irr	--	
C-186	H. O. Lee	Peerless Pump Co.	1947	--	--	--	--	T,G	Irr	--	
C-187	C. O. Bibby	Green Machinery Co.	1949	200	16	67.3	Oct. 10, 1950	T,E, 40	Irr	100	Pump set at 130 ft.
C-188	N. G. Bairett	Consolidated Oil & Gas Co.	1947	197	16	a/76	1947	T,E, 40	--	--	Casing perforated from 97 to 197 ft.
C-189	J. A. Young	--	1936	190	--	--	--	T,G	Irr	--	
C-190	J. W. King	Peerless Pump Co.	1946	200	16	--	--	T,G, 100	Irr	110	See log.
C-191	J. E. Busby	L. P. Davis	1948	207	16	a/67	1950	T,G	Irr	215	Measured discharge, 1,130 gpm Oct. 10, 1950.
C-192	L. F. Mayfield	--	1944	199	16	a/58	May 1950	T,G, 125	Irr	170	Pump set at 90 ft.
C-193	J. A. Boone	--	--	--	--	--	--	T,G, 165	Irr	--	
C-194	do	--	--	--	--	--	--	T,G, 165	Irr	--	
C-195	E. C. Baker	Consolidated Oil & Gas Co.	1949	202	16	--	--	T,G	Irr	--	Pump: 8-in., 3-stage, set at 120 ft.
C-196	T. Moore	do	1949	199	16	--	--	--	--	--	
C-197	H. C. Pickrell	Green Machinery Co.	1948	150	16	--	--	T,G	Irr	200	Reported discharge, 1,500 gpm October 1948.
C-198	R. M. Stinson	Peerless Pump Co.	1947	204	16	--	--	T,E, 50	Irr	--	Water-bearing sand reported from 130 to 204 ft.
C-199	R. E. Chitwood	Consolidated Oil & Gas Co.	1947	203	16	a/64	July 1947	T,G	Irr, RB	110	See log.
C-200	H. N. Seymour	Green Machinery Co.	1948	210	16	a/62	Dec. 1948	T,G	Irr	--	
C-201	G. E. Thommarson	-- Kirkland	1947	230	16	80.6	Oct. 10, 1950	T,G, 145	Irr	120	
C-202	I. B. Holt	Consolidated Oil & Gas Co.	1948	202	16	--	--	T,G	Irr	--	
C-203	F. W. Walden	Green Machinery Co.	1950	224	16	107.9	Oct. 10, 1950	T,G, 115	Irr	109	Water level at 129 ft. after 2 hours of pumping at 985 gpm Apr. 2, 1952.
C-204	L. B. Kenedy	do	1948	200	16	105.2	do	T,E, 30	Irr	100	Measured discharge, 795 gpm Apr. 2, 1952.
*C-205	E. W. Walden	do	1940	230	16	--	--	T,E, 50	Irr	278	Measured discharge 915 gpm Apr. 2, 1952.
C-206	George E. Brown	do	1947	240	18	101.4 99.9	June 27, 1950 Oct. 10, 1950	T,E, 50	Irr	320	Measured discharge, 1,120 gpm Apr. 2, 1952.



Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
C-207	H. M. Langford	Consolidated Oil & Gas Co.	1947	199	16	a/85	Mar. 1947	T,E, 60	---	--	
C-208	Dave McGowan	Peerless Pump Co.	1939	222	16	---	--	T,G, 85	Irr	120	Estimated discharge, 600 gpm June 27, 1950.
C-209	George E. Brown	Green Machinery Co.	1948	240	18	122.8	Sept. 24, 1951	T,E, 50	Irr	255	Water level at 133 ft after 1 hour of pumping at 800 gpm Sept. 24, 1951.
C-210	S. C. Silcop	do	1949	200	16	--	--	T,E, 40	Irr	160	
C-211	George E. Brown	do	1947	240	18	--	--	T,G, 115	Irr	210	
C-212	Roy Dobbs	Consolidated Oil & Gas Co.	--	--	--	88.7	Mar. 31, 1952	T,G	Irr	--	
C-213	do	do	1946	200	16	--	--	T,E, 40	Irr	200	Measured discharge, 800 gpm Mar. 31, 1952. Pump set at 130 ft.
C-214	do	do	1948	200	16	--	--	T,E, 50	Irr	150	Water level at 119.7 ft after 9 hours of pumping at 1,060 gpm Mar. 31, 1952.
C-215	J. R. Spain	do	1948	203	16	a/80	Jan. 1948	T,G	Irr	--	Pump: 10-in., 3-stage, set at 120 ft.
C-216	L. P. Fisher	Green Machinery Co.	1950	220	16	a/80	Apr. 1950	T,E, 40	Irr	--	
C-217	T. C. Sanderson	Peerless Pump Co.	--	300	18	--	--	T,G, 65	Irr	225	
C-218	do	Newman Motor Co.	1948	200	18	--	--	T,G, 145	Irr	225	
C-219	R. H. McAfee	Green Machinery Co.	1944	206	18	83	--	T,G, 100	Irr	125	Estimated discharge, 950 gpm June 6, 1950. See log.
C-220	J. M. Taylor	--	1945	--	--	--	--	T,G, 95	Irr	200	
C-221	E. R. Spain	Consolidated Oil & Gas Co.	1949	210	16	--	--	T,G	Irr	150	
C-222	do	L. P. Davis	1946	235	16	97.8	Oct. 13, 1950	T,G, 145	Irr	200	Estimated discharge, 1,000 gpm June 6, 1950.
C-223	G. W. Locke	Consolidated Oil & Gas Co.	1948	200	16	92.4	Sept. 19, 1950	T,E, 30	Irr	145	Water level reported 84 ft when drilled.
C-224	Clovis Poteet	Green Machinery Co.	1948	200	16	--	--	T,E, 30	Irr	--	
C-225	Mrs. Marjorie Brewer	Consolidated Oil & Gas Co.	1948	196	16	--	--	T,G	Irr	120	
C-226	Ray Montgomery	Green Machinery Co.	1947	215	16	84.4	Sept. 14, 1950	T,G	Irr	160	Measured discharge, 1,165 gpm Apr. 4, 1952. See log.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
C-227	Mrs. J. R. Montgomery	Green Machinery Co.	1948	200	16	79.5	Sept. 14, 1950	T, G	Irr	160	
C-228	Guy Willis	L. P. Davis	1949	200	16	71.9	Sept. 12, 1950	T, G	Irr	--	
C-229	J. L. Irvin	Green Machinery Co.	1948	245	16	71.2	do	T, G	Irr	--	
C-230	A. C. Simmons	do	1944	208	16	70	Sept. 16, 1944	T, G	Irr	--	Pump: 10-in., 1-stage, set at 100 ft. See log.
C-231	do	do	1948	204	16	--	--	T, G	--	--	
C-232	R. G. DeBerry	Peerless Pump Co.	1948	196	16	--	--	T, G, 100	Irr	80	
C-233	R. Cooper	Green Machinery Co.	1946	225	16	--	--	T, G	Irr	--	Measured discharge, 515 gpm Sept. 24, 1951.
C-234	J. M. Speer	--	Old	220	16	91.5	June 21, 1951	T, G, 165	Irr	80	Pump set at 120 ft.
C-235	Mrs. E. L. Kirkpatrick	Green Machinery Co.	1947	224	16	86.3	Sept. 18, 1950	T, E, 50	Irr	157	Casing: 16-in. to 210 ft.
C-236	--	--	--	--	--	--	--	T, E, 50	Irr	--	
C-237	O. B. LeFrance	--	--	--	--	--	--	--	--	--	
C-238	Frank Struve	Green Machinery Co.	1948	130	16	78.2	Sept. 19, 1950	T, G	Irr	275	
C-239	G. E. Bohner	do	1947	240	16	69.7	do	T, G	Irr	230	Pump: 10-in. set at 130 ft.
C-240	D. Lawson	do	1950	200	16	a/50	Apr. 1950	T, G, 100	RR	--	
C-241	W. B. Fluornoy	Consolidated Oil & Gas Co.	1947	196	16	77.6	Sept. 26, 1950	T, G, 100	Irr	120	Reported discharge, 950 gpm March 1947.
C-242	F. E. Gladden	Buck Patton	1937	220	15½	b/76.3	June 24, 1937	T, G, 50	Irr	--	Drawdown 21.2 ft after 3 hours of pumping at approximately 800 gpm.
C-243	H. B. Montgomery	Green Machinery Co.	1947	224	16	--	--	T, G	Irr	--	Water level at 124.9 ft after 8 hours of pumping at 685 gpm Mar. 31, 1952.
C-244	O. N. McCarty	Peerless Pump Co.	1947	197	16	76.9	Sept. 27, 1950	T, G, 100	Irr	75	
C-245	A. J. Walling	do	1946	200	16	71.3	do	T, G, 100	Irr	160	Casing perforated from 60 to 200 ft. Pump set at 80 ft in 1946, reset at 120 ft April 1950. See log.
C-246	R. A. Applewhite	-- Asher	1946	200	16	--	--	T, G, 165	Irr	160	
C-247	Moses & Beason	Green Machinery Co.	1945	212	16	a/48	Dec. 1945	T, G	Irr	--	
C-248	H. T. Gabehart	Consolidated Oil & Gas Co.	1946	200	14	61.1	Sept. 27, 1950	T, G, 125	Irr	145	

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
C-249	H. F. Hudgins	Green Machinery Co.	1948	215	16	a/60	Dec. 1948	T,G, 145	Irr	115	
C-250	Moses & Beason	S. Scoggins	1945	204	--	48	--	--	Irr	--	See log.
C-251	George Brown	Green Machinery Co.	1937	--	--	--	--	T,G	Irr	--	
C-252	do	do	1950	200	16	a/60	Mar. 1950	T,G, 100	Irr	--	
C-253	Doyle W. Pinson	George Garms	--	161	15½, 13½	57.9	Apr. 1, 1937	T,G	Irr	--	Casing: 15½-in. to 75 ft, 13½-in. to 92 ft.
C-254	H. E. Akin	--	1941	--	--	58.1 56.2 56.4	Aug. 13, 1942 Feb. 23, 1943 Sept. 28, 1950	T,G	Irr	--	
C-255	Dan C. Sumner	B. Fish	1946	220	16	64.1	Sept. 28, 1950	T,G, 145	Irr	160	
C-256	J. Adams	--	1948	--	--	--	--	E	--	--	
C-257	L. A. George	Byron-Jackson	1948	220	16	66.1	Sept. 28, 1950	T,G, 165	Irr	160	Drawdown 25 ft after 4 hours of pumping at 950 gpm in 1948.
C-258	Dan C. Sumner	B. Fish	1946	220	16	--	--	T,G, 195	Irr	160	
C-259	R. G. Caruthers	--	1937	210	16	74.5	Sept. 28, 1950	T,G, 110	Irr	153	
C-260	C. H. Smith	B. Fish	1947	220	16	--	--	T,G, 145	Irr	160	Casing perforated from 88 to 220 ft.
C-261	R. M. Stinson	Peerless Pump Co.	1938	184	14	a/63	--	T,G, 165	Irr	--	
C-262	D. C. Sumner	B. W. Fish	1946	226	16	a/55	1946	T,G	Irr	150	See log.
*C-263	W. D. Roebuck	-- Cook	1936	175	16, 10	56.5 56.6	Oct. 5, 1937 Sept. 28, 1950	T,G, 40	Irr	160	Casing: 16-in. to 100 ft, 10-in. to 175 ft. Drawdown 20 ft Mar. 30, 1937, after 400 hours of pumping at 1,000 gpm. Temp. 62.5°F.
D-1	G. T. Palmer	-- Fish	1950	200	16	85	--	T,G	Irr	200	Estimated discharge, 1,200 gpm May 16, 1950.
D-2	L. C. Goslin	--	1948	150	16	90.7	May 16, 1950	T,G	Irr	160	Pump set at 146 ft.
D-3	John Meekma	-- Hollis	1948	200	16	a/95	Dec. 1948	T,G, 145	Irr	160	See log.
D-4	do	--	1948	200	16	a/90	Jan. 1948	T,G, 125	Irr	190	Pump set at 125 ft. Temp. 67°F.
D-5	Ellis Jones	Green Machinery Co.	1940	180	16	a/75	Oct. 1950	T,G, 145	Irr	160	Estimated discharge, 800 gpm May 29, 1950.
D-6	do	Leroy Evans	1946	200	16	a/78	1946	T,G, 100	Irr	160	Drilled to red beds.
D-7	Ralph Roper	-- Davis	1945	200	16	79.6	Oct. 26, 1950	T,G, 145	Irr	200	
D-8	A. W. Shelly	--	1948	180	16	79.6	May 4, 1950	T,G, 80	Irr	150	

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
D-9	-- Kizer	Green Machinery Co.	--	185	16	--	--	T.G.	Irr	--	
D-10	do	do	1937	185	--	b/66.1	May 27, 1937	T.G, 85	Irr	--	
D-11	S. O'Neil	-- West	1937	182	16	61.0	do	T.G, 85	Irr	85	Pump: 8-in., 2-stage, set at 120 ft. Temp. 62°F.
D-12	Eldon Frank	Green Machinery Co.	1945	213	16	--	--	T.G, 145	Irr	200	Drilled to red beds.
D-13	C. L. Jackson	do	1947	200	16	75.4	May 4, 1950	T.G, 145	Irr	150	Water level 99.9 ft after 2 hours of pumping at approximately 1,000 gpm Oct. 30, 1950.
D-14	Ralph Roper	--	1937	180	16	b/77.4	May 27, 1937	T.G, 85	Irr	244	Casing perforated from 120 to 200 ft. Pump set at 144 ft.
D-15	John Meekma	W. D. Carter	1949	200	16	85	Apr. 18, 1949	T.G, 145	Irr	200	
D-16	T. B. Wheeler	Green Machinery Co.	1947	200	16	a/78	1947	T.G, 145	Irr	220	
D-17	C. C. Griffin	do	1946	200	16	a/85	--	T.G, 145	Irr	100	
D-18	Bob Fisher	--	1946	--	--	91.7	May 16, 1950	T.G, 145	Irr	150	
D-19	M. Ford Lain	Consolidated Oil & Gas Co.	1945	203	16	--	--	T.G	Irr	--	Pump: 8-in., 3-stage, set at 130 ft.
D-20	G. Thomas	do	1948	201	16	a/62	Nov. 1948	T.G	Irr	160	
D-21	J. E. Jones	do	1948	195	16	a/90	--	T.G	Irr	--	Casing perforated from 60 to 135 ft. Drawdown reported 29 ft.
D-22	F. M. Holland	L. P. Davis & Son	1947	202	16	91.7	Oct. 26, 1950	T.G, 145	Irr	125	Estimated discharge, 1,000 gpm May 16, 1950.
D-23	E. B. McDowell	Consolidated Oil & Gas Co.	1948	200	16	a/92	Oct. 1950	T.G, 145	Irr	140	
D-24	Ellis Jones	Green Machinery Co.	1948	208	16	91.6	Oct. 26, 1950	T.G, 145	Irr	156.7	
D-25	M. R. Cavett	-- Fish	1948	200	16	92.0	do	T.G, 165	Irr	160	
D-26	G. Thomas	Consolidated Oil & Gas Co.	1947	257	16	88.0	do	T.G, 109	Irr	170	Measured discharge, 1,025 gpm Oct. 27, 1950. Pump set at 140 ft.
D-27	Byrl Wilks	Green Machinery Co.	1947	220	16	78.9	Oct. 13, 1950	T.G, 100	Irr	203	
D-28	J. L. Carson, Jr.	Cox & Curry	1945	197	16	--	--	T.G, 155	Irr	160	Measured discharge, 895 gpm Apr. 2, 1952. Temp. 63.5°F.
D-29	J. L. Carson	Asher & Davis	1948	200	16	--	--	T.G, 155	Irr	160	Pump set at 130 ft.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
D-30	D. Wilks	Green Machinery Co.	1947	200	18	81.3	June 15, 1950	T,G	Irr	160	
D-31	Walton Bodkin	do	1948	220	16	78.0	Oct. 13, 1950	T,G, 110	Irr	160	Estimated discharge, 900 gpm May 19, 1950.
D-32	Byrl Wilks	do	1947	200	16	77.3	do	T,G, 100	Irr	105	Pump set at 120 ft.
D-33	M. G. Fisher	-- Fish	1949	200	16	--	--	T,G, 100	Irr	80	
D-34	R. G. Havens	--	1936	160	16	--	--	T,G, 95	Irr	50	Pump set at 90 ft.
D-35	G. A. Bodkin	--	1946	210	16	--	--	T,G, 165	Irr	160	
D-36	Raymond Carson	Dennis Henager	1945	224	16	75.0	--	T,G, 100	Irr	200	See log.
D-37	J. A. Wheeler	Green Machinery Co.	1948	214	16	86.6	Oct. 26, 1950	T,G, 105	Irr	115	Estimated discharge, 950 gpm May 16, 1950.
D-38	J. N. Dudley	Consolidated Oil & Gas Co.	1947	200	16	--	--	T,G	Irr	350	Estimated discharge, 1,175 gpm Apr. 2, 1952. Pump set at 140 ft.
D-39	F. D. Long	Green Machinery Co.	1950	240	16	a/80	--	T,G	Irr	--	
D-40	Earl Dodd	do	1950	230	16	82.3	Oct. 30, 1950	T,G	Irr	75	
D-41	Leo Smith	do	1946	230	16	--	--	T,G	Irr	240	Pump set at 130 ft.
D-42	do	do	1943	225	16	94.4	Oct. 30, 1950	T,G, 145	Irr	122	Casing: 16-in. to 219 ft; perforated from 177 to 219 ft. See log.
D-43	H. R. Carson	do	1945	224	16	95.4	do	T,G, 145	Irr	240	Estimated discharge, 950 gpm May 2, 1950 Pump: 10-in., 2-stage, set at 120 ft.
D-44	J. A. Carruth	do	1948	240	16	a/110	Dec. 1948	T,G, 145	Irr	140	Red beds at 240 ft.
D-45	H. B. Carson	do	1941	240	16	b/90.9	Nov. 9, 1942	T,G, 145	Irr	320	See log.
D-46	G. T. Sides	do	1947	222	16	--	--	T,G	Irr	--	Casing: 16-in. to 218 ft.
D-47	do	do	1943	210	16	a/94	May 1943	T,G	Irr	--	See log.
D-48	J. A. Carruth	do	1947	240	16	a/105	1947	T,G, 145	Irr	150	Temp. 67°F.
D-49	R. W. Malone	do	1947	215	16	a/78	Jan. 1947	T,G	Irr	--	
D-50	J. L. Carson	do	1950	228	16	a/94	Jan. 1950	T,G, 145	Irr	100	Drilled to red beds. Temp. 67°F.
D-51	J. O. Reed	A. W. Fish	1945	199	16	a/100	1950	T,G, 165	Irr	160	Pump set at 150 ft. Estimated discharge, 950 gpm May 8, 1950. See log.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
*D-52	A. C. Light	Davis & Son	1948	240	16	97.7	Oct. 30, 1950	T.G., 165	Irr	150	Water level at 125.1 ft Apr. 2, 1950, after 52 hours of pumping at 1,365 gpm. Drilled to red beds. Temp. 63.5°F.
D-53	do	do	1948	243	16	100.4	do	T.G., 165	Irr	150	Casing: 16-in. set on red beds.
D-54	J. B. Kemp	Green Machinery Co.	1949	225	16	--	--	T.G., 145	Irr	140	Temp. 63°F.
D-55	T. E. Lewis	-- Fish	1947	206	16	92.3	May 16, 1950	T.G., 145	Irr	125	
D-56	H. L. Moses	Green Machinery Co.	1946	208	16	86.9	Oct. 26, 1950	T.G., 145	Irr	160	
D-57	Roberson Bros.	--	1942	232	14	93.5 104.6	Nov. 9, 1942 Oct. 13, 1950	T.G., 145	Irr	160	See log.
D-58	do	H. P. Price	1942	200	14	b/93.5	Nov. 9, 1942	T.G.	Irr	--	
D-59	do	Consolidated Oil & Gas Co.	1950	200	16	103.4	Oct. 13, 1950	T.G.	Irr	190	Pump set at 140 ft.
D-60	A. C. Brigance	--	1948	233	16	b/89.9	Feb. 26, 1950	T.G., 165	Irr	220	See log.
D-61	A. T. Henderson	Green Machinery Co.	1945	226	16	--	--	T.G.	Irr	160	Pump: 10-in., 2-stage, set at 120 ft.
D-62	do	L. P. Davis	1945	200	16	93.5	Oct. 30, 1950	T.G.	Irr	150	
D-63	G. T. Sides	Bradford Supply Co.	--	240	16	--	--	T.G., 145	Irr	--	Temp. 65°F.
D-64	do	--	1947	240	16	105.4	Oct. 30, 1950	T.G., 145	Irr	--	Estimated discharge, 750 gpm Apr. 29, 1950. Temp. 65°F.
D-65	do	Bradford Supply Co.	--	230	16	a/100	1950	T.G., 145	Irr	--	
D-66	J. M. Machon	-- Fish	1950	200	16	90.5	Oct. 30, 1950	T.G., 85	Irr	180	Pump set at 120 ft. Temp. 66°F.
D-67	J. A. Boverie	Bradford Supply Co.	1941	212	16	a/85	1941	T.G., 165	Irr	--	Casing perforated from 82 to 212 ft. See log.
D-68	W. T. Whitiker	-- Scoggins	--	220	16	a/90	1950	T.G., 145	Irr	160	
D-69	Graydon Fincher	--	1947	250±	16	93.9	May 10, 1950	T.G., 165	Irr	100	
D-70	Mrs. N. B. Meinecke	--	1947	240	16	98.8	May 9, 1950	T.G., 165	Irr	250	
D-71	H. A. Hysinger	--	1947	200	16	a/95	1950	T.G., 145	D, Irr	175	Estimated discharge, 700 gpm May 10, 1950.
D-72	Roy Long	Green Machinery Co.	1947	224	16	89.6	Oct. 30, 1950	T.G., 145	Irr	76	
D-73	F. E. Graham	-- Haynie	1946	210	16	85.2	May 11, 1950	T.G., 120	Irr	152	Pump set at 120 ft.



Table 8.--Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
D-74	R. D. Bryant	Peerless Pump Co.	1947	230	16	a/72	Apr.	T, G, 105	Irr	90	Casing: 16-in. to 197 ft.
D-75	L. F. Howard	-- Tadlock	1946	200	16	a/85	Aug.	T, G, 145	Irr	152	
D-76	A. Curry	Consolidated Oil & Gas Co.	1946	200	16	a/68	Sept.	T, -	--	--	Drawdown 30 ft reported by driller. Pump: 8-in., 3-stage, set at 130 ft.
D-77	Earl Holly	do	1947	210	16	a/70	--	T, G	Irr	--	Drawdown 50 ft reported by driller. See log.
D-78	Charles Clements	Green Machinery Co.	1949	240	16	a/91	Apr.	T, G, 165	Irr	200	
D-79	Mrs. J. Dear	Consolidated Oil & Gas Co.	1947	205	16	a/78	1947	T, G	Irr	23	
D-80	Virgil King	do	1947	200	16	a/100	Oct.	T, G	Irr	100	
D-81	J. T. Tollett	L. P. Davis	1949	191½	16	102.8	Oct. 26, 1950	T, G	Irr	155	Pump set at 156 ft.
D-82	D. A. Barnett	-- Cook	1948	205	16	a/70	July	T, G, 125	Irr	140	Casing perforated from 80 to 205 ft.
D-83	Vernon Nickson	-- Fish	1950	200	18	--	--	T, G, 85	Irr	120	Estimated discharge, 800 gpm June 6, 1950.
D-84	Guy Willis	do	1949	200	16	93.9	May 16, 1950	T, G, 165	Irr	135	
D-85	D. E. Barnett	-- Robertson	1949	200	16	a/90	1949	T, G	Irr, RR	140	
D-86	Dan Clark	-- Bogart	1947	200	16	a/85	1947	T, B, 125	Irr	135	
D-87	Mrs. A. Walker	-- Bullard	1947	230	16	a/90	Aug.	T, G	Irr	150	Casing perforated from 100 to 230 ft. Pump set at 132 ft.
D-88	do	--	1947	230	18	a/88.4	Mar.	T, G	Irr	150	
D-89	A. G. Cooper	Consolidated Oil & Gas Co.	1947	200	16	--	--	T, G	Irr	95	
D-90	W. T. Boyd	--	1948	200	16	a/86	Apr.	T, G, 95	Irr	160	
D-91	G. F. Parker	-- Walker	1947	210	16	a/85	1950	T, G, 145	Irr	160	Estimated discharge, 725 gpm Apr. 27, 1950.
D-92	A. J. Gibbens	Green Machinery Co.	--	200	16	84.6	May 2, 1950	T, G, 145	Irr	--	
D-93	J. D. Moore	--	--	--	16	b/83.0	Aug. 14, 1942	T, G, 90	Irr	150	
D-94	M. B. Labough	Green Machinery Co.	1945	300	16	101.0	Oct. 30, 1950	T, G, 140	Irr	320	Well deepened from 230 ft in 1947.
D-95	Guy Willis	-- Fish	1947	230	16	100.9	do	T, G, 165	Irr	150	Pump set at 140 ft.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
D-96	J. C. George	Consolidated Oil & Gas Co.	1948	198	16	97.8	Apr. 27, 1950	T, G, 140	Irr	160	See log.
D-97	Solan Clements, Jr.	Peerless Pump Co.	1949	297	16	--	--	T, G, 140	Irr	160	
D-98	C. T. Hulsey	Green Machinery Co.	1948	210	16	103.0	Apr. 27, 1950	T, E, 40	Irr	160	Measured discharge, 1,100 gpm Apr. 27, 1950. Pump set at 115 ft.
D-99	H. R. Miller	-- Oightman	1942	175	18	a/70	--	T, G, 30	Irr	145	
D-100	W. T. Whitaker	--	--	--	--	--	--	--	Irr	--	Pump: 8-in., 2-stage, set at 110 ft.
D-101	E. C. Jones	-- Scroggins	1947	220	16	--	--	T, E, 40	Irr	160	
D-102	E. W. Mitchell	-- Fish	1947	200	16	a/85	--	T, E, 30	Irr	80	
D-103	L. D. Allen	--	1948	202	16	--	--	T, E, 30	Irr	150	Measured discharge, 725 gpm Apr. 2, 1952, after 48 hours of pumping. Temp. 64° F.
D-104	E. W. Mitchell	-- Scroggins	1948	200	16	--	--	T, G, 145	Irr	97	Measured discharge, 660 gpm after 5 hours of pumping Apr. 2, 1952. Pump: 8-in., 3-stage, set at 120 ft.
D-105	L. W. Howard	A. W. Fish	1947	200	16	--	--	T, G, 30	Irr	107	
D-106	C. C. Allen	do	1947	200	16	a/85	--	T, E, 60	Irr	170	Drilled to red beds.
D-107	Harley F. Miller	Green Machinery Co.	1947	225	16	96.0	Oct. 13, 1950	T, G	Irr	56.6	Pumping level at 116.7 ft. May 16, 1950, after 5 days of pumping an estimated 900 gpm. Pump set at 140 ft.
D-108	W. R. Dickinson	--	1947	200	18	a/85	1947	T, G, 145	Irr	164	
D-109	H. A. Bledsoe	Green Machinery Co.	1942	204	16	97.3	Oct. 13, 1950	T, G, 145	Irr	120	
D-110	do	do	1945	208	16	a/97	Oct. 1950	T, G, 145	Irr	120	See log.
D-111	C. E. Bley	do	1948	208	16	a/91	1948	T, E, 40	Irr	--	Estimated discharge, 850 gpm June 7, 1950.
D-112	do	do	1941	228	16	92.9	Oct. 13, 1950	T, E, 50	Irr	--	Pump: 10-in., 1-stage set at 110 ft. See log.
D-113	O. B. LaFrance	do	1948	200	16	--	--	T, G, 140	Irr	--	
D-114	R. B. Crisp	do	1944	200	16	a/80	Dec. 1944	T, E	Irr	--	
D-115	-- Hymand	do	--	--	--	--	--	--	--	--	See log.
D-116	J. H. Dougherty	Tye-Peerless	1949	200	16	88.8	Sept. 12, 1950	T, E, 30	Irr	--	
D-117	A. D. Melton	Green Machinery Co.	1946	206	16	88.3	Sept. 13, 1950	T, E, 40	Irr	160	

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
D-118	F. E. Dougherty	Peerless Pump Co.	1944	203	16	a/80	--	T, E, 30'	Irr	160	Pumping level at 100 ft, Sept. 12, 1950. See log.
D-119	C. T. Mason	-- Tadlock	1947	205	16	87.5	Sept. 12, 1950	T, E, 40'	Irr	140	Pump: 8-in., 3-stage, set at 120 ft.
D-120	Roye Aikman	--	--	--	--	--	--	T, --	--	--	
D-121	L. S. Kennedy	Scroggins Bros.	1949	200	16	94.2	Sept. 20, 1950	T, E	Irr	220	Water level at 130.3 ft May 2, 1952, after 110 hours of pumping at 1,262 gpm. Temp. 63.5°F.
D-122	R. A. Dodson	Consolidated Oil & Gas Co.	1948	200	16	a/85	--	--, E, 50'	Irr	120	
D-123	Mrs. D. Simmons	--	--	--	--	--	--	T, G, 165'	Irr	--	
D-124	L. L. Howard	Sears Roebuck & Co.	1948	200	16	--	--	T, G	Irr	160	Pump set at 140 ft.
D-125	R. J. Caviness	Davis & Sons	1948	200	16	--	--	T, G	Irr	60	
D-126	R. W. Ball	S. Ballard	1948	200	16	a/71	--	T, G, 100'	Irr	76	Reported discharge, 1,000 gpm in 1948.
D-127	C. W. Reynolds	Green Machinery Co.	1947	200	16	--	--	T, G	Irr	400	Pump set at 130 ft.
D-128	do	W. G. Goyne	1948	200	16	--	--	T, G	Irr	--	
D-129	J. A. Hagle	-- West	1937	180	16	80.3 88.7	May 27, 1937 Jan. 25, 1952	T, G, 50'	Irr	--	Measured discharge, 976 gpm May 6, 1940.
D-130	R. M. Towry	-- Cook	1935	204	14	77.0 84.9	May 28, 1937 Sept. 20, 1950	T, G, 85'	Irr	--	
D-131	Lloyd Pryor	Green Machinery Co.	1948	200	16	--	--	T, G	Irr	--	
*D-132	City of Olton	--	--	200	12	a/81	--	T, E	P, S	--	Measured discharge, 250 gpm in 1946. Temp. 64°F.
E-1	Halsell Land & Cattle Co.	--	1938	46	4	b/37.7	June 22, 1939	None	N	--	Seismograph shot hole.
E-2	R. E. Williams	W. Ware	1947	200	16	38	Aug. 2, 1950	T, G	Irr	175	Pumping level reported at 70 ft. Pump set at 100 ft. Red beds at 199 ft.
E-3	F. O. Masten	do	1944	180	16	36.2	Aug. 1, 1950	T, G	Irr	--	Pumping level reported at 91 ft.
E-4	H. Harvey	--	1949	172	16	--	--	T, G	Irr	189	Casing: 16-in. to 120 ft. Uses sprinkler system. Red beds at 171 ft.
E-5	F. O. Masten	W. Ware	--	220	16	54.0	Aug. 1, 1950	T, G	Irr	--	Pump set at 140 ft. Red beds at 200 ft.
E-6	D. O. Baker	Sam Ballard	1948	204	16	63.4	do	T, G	Irr	145	Reported discharge, 1,600 gpm.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
E-7	C. M. Coffey	J. D. Kirkland	1946	202	18	82.3	Aug. 1, 1950	T,G	Irr	90	Red beds at 197 ft.
E-8	J. West	Sam Ballard	1950	198	16	71.7	do	T,G	Irr	175	Pumping level reported at 102 ft.
E-9	R. P. Baccus	--	1949	170	16	--	--	None	N	--	Uncased; insufficient water for irrigation; abandoned. Red beds at 140 ft.
E-10	J. E. Harvey	Kirkland & Ware	1947	187	16	47.9	Aug. 1, 1950	T,G	Irr	135	Reported discharge, 1,500 gpm. Pump: 10-in., set at 100 ft.
E-11	L. R. Cole	J. D. Kirkland	1947	200	16	90.0	Aug. 2, 1950	T,G	Irr	125	
E-12	H. M. Gilbert	do	1948	187	16	51.6	Aug. 1, 1950	T,G	Irr	250	
E-13	G. W. Davis	L. P. Davis	1947	200	16	--	--	T,G	Irr	80	Casing: 16-in. to 180 ft. Reported discharge, 900 gpm.
E-14	W. V. Terry	L. Ware	1948	168	16	90.9	Sept. 18, 1950	T,G	Irr	150	Pump: 10-in., 2-stage, set at 150 ft.
E-15	do	W. Ware	1948	190	16	--	--	--	--	--	Reported discharge, 350 gpm. Abandoned. Red beds at 168 ft.
E-16	U. B. Porter	--	1946	200	16	88.7	Aug. 2, 1950	T,G	Irr	150	Uses sprinkler system.
E-17	do	--	1946	200	16	--	--	T,G	Irr	100	
E-18	T. A. King, Jr.	J. D. Kirkland	1950	247	16	125.6	Sept. 18, 1950	T,G	Irr	130	Pump set at 160 ft.
E-19	J. Stark	do	1950	220	16	106.5	do	T,G	Irr	140	Red beds at 219 ft.
E-20	D. Baccus	W. Ware	1947	220	16	111.2	do	T,G	Irr	160	Reported discharge, 900 gpm.
*E-21	City of Sudan	H. J. McCarty	1935	134	10	--	--	T,E, 5	P,S	--	Casing perforated from 122 to 134 ft. Measured discharge, 60 gpm June 1935.
E-22	do	M. White	1934	134	6- 5/8	--	--	T,E, 5	P,S	--	Measured discharge, 20 gpm in 1934.
E-23	do	do	1933	134	6- 5/8	a/127	1933	T,E, 5	P,S	--	Estimated pumpage from 5 city wells 100,000 gpd in 1945.
E-24	do	do	1934	134	6- 5/8	--	--	T,E, 5	P,S	--	Measured discharge, 60 gpm in 1937.
E-25	do	H. J. McCarty	1935	134	10	--	--	T,E	P,S	--	Measured discharge, 35 gpm in 1935.
E-26	C. E. Dean	W. Ware	1948	230	16	83.3	Sept. 19, 1950	T,G	Irr	120	
E-27	L. E. Slate	J. D. Kirkland	1950	217	16	--	--	T,G	Irr	135	Pump set at 140 ft. Red beds at 215 ft.
E-28	C. Wiseman	-- Wilson	1949	265	16	145.3	Oct. 30, 1950	T,G	N	--	Pump set at 255 ft. Reported discharge, 400 gpm. Insufficient water for irrigation. Abandoned.
E-29	W. V. Terry	--	1946	301	16	--	--	None	N	--	Insufficient water for irrigation. Abandoned.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
E-30	R. M. Ford	--	--	--	--	--	--	None	N	--	Insufficient water for irrigation. Abandoned.
E-31	J. W. Jones	S. Ballard	1948	210	16	--	--	None	N	--	Do.
E-32	-- Blankenship	--	--	--	--	--	--	None	N	--	Do.
E-33	Roy C. Baccus	S. Thruhill	1946	205	16	96.6	Sept. 18, 1951	None	N	--	Casing: 16-in. to 170 ft. Reported discharge, 250 gpm. Abandoned. Red beds at 200 ft.
E-34	V. Peterman	--	1937	136	4½	96.1	June 25, 1950	C, W	D	--	Irrigates small garden.
*E-35	L. R. Capps	--	1923	160	4½	150.3 145.1	Mar. 12, 1937 June 25, 1952	C, W	D, S	--	Test well. See log.
F-1	Southwestern Public Service Co.	D. L. McDonald	1950	185	7	a/27	--	None	N	--	Altitude of land surface, 3,671.2 ft. Pump removed June 1952. Observation well equipped with recording gage. See log.
F-2	do	do	1950	207	7	a/35.5	--	None	--	--	Altitude of land surface, 3,660.8 ft. Test well. See log.
F-3	do	do	1950	210	--	30.1	Oct. 31, 1950	None	N	--	Altitude of land surface, 3,652.8 ft. Test well. See log.
F-4	do	do	1950	196	5½	a/28	Nov. 1950	None	N	--	Altitude of land surface, 3,647.3 ft. Test well. See log.
F-5	do	do	1950	162	7	a/10	Oct. 1950	None	N	--	Altitude of land surface, 3,645.7 ft. Test well. Casing: 7-in. to 122 ft. Drawdown 6 ft Nov. 20, 1950, after 24 hours of pumping at 82 gpm reported by driller. See log.
F-6	do	do	1950	165	7	8.3	Nov. 22, 1950	None	N	--	Altitude of land surface, 3,638.2 ft. Test well. See log.
*F-7	do	do	1950	189	7	20.9	Nov. 8, 1950	None	N	--	Altitude of land surface, 3,652.7 ft. Test well. See log.
F-8	do	do	1950	208	7	34.5	Nov. 18, 1950	None	N	--	Altitude of land surface, 3,652.7 ft. Test well. See log.
F-9	Mrs. C. P. Gregson	C. Harmon	1947	200	16	40.4	Aug. 1, 1950	T, G	Irr	60	Pump: 10-in., set at 100 ft. Casing set on red beds. Drilled to red beds.
F-10	Mrs. R. L. White	do	1947	200	16	b/36.5	Mar. 24, 1949	T, G	Irr	150	Do.
F-11	Mrs. R. R. Morgan	Sherty Ware	1948	206	16	--	--	T, G	Irr	200	Do.

Table 8.1.- Records of wells in Lamb County.-Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
F-12	J. L. Templeton	C. Harmon	1950	210	16	35.0	Aug. 1, 1950	T, G	Irr	140	Altitude of land surface, 3,649.6 ft. Red beds at 209 ft.
*F-13	Halsell Land & Cattle Co.	--	--	42	4	b/38.6	Feb. 23, 1937	C, W	S	--	Altitude of land surface, 3,649.6 ft. Temp. 62°F.
F-14	C. A. Duffy	Peerless Pump Co.	1949	200	16	--	--	T, G	Irr	150	Drilled to red beds.
F-15	W. J. Warren	C. Harmon	1950	225	16	77.8	Aug. 10, 1950	T, G	Irr	100	
F-16	Mat Nix	J. D. Kirkland	1947	200	--	71.8	Aug. 7, 1950	T, G	Irr	--	
F-17	O. W. Smith	Green Machinery Co.	1948	200	16	59.9	Aug. 8, 1950	T, G	Irr	90	Pump: 8-in. set at 120 ft.
F-18	V. M. Peterman	Kirkland & Ware	1950	219	16	44.5	Aug. 10, 1950	T, G	Irr	150	Casing: 16-in. to 207 ft.
F-19	do	Davis Pump Co.	1948	220	16	48.2	do	T, G	Irr	140	
F-20	Green Carpenter	L. P. Davis	1948	219	16	52.9	Sept. 22, 1950	T, G	Irr	160	Pump set on rock.
F-21	C. E. Braswell	S. Ballard	1949	210	16	37.1	Aug. 10, 1950	T, G	Irr	150	Drilled to red beds.
F-22	Sid Morris	J. D. Kirkland	1950	203	18	40.3	Aug. 8, 1950	T, G, 100	Irr	55	
F-23	J. D. Hagler	--	--	--	--	39.4	Aug. 10, 1950	T, G, 100	Irr	--	Uses sprinkler system.
F-24	H. Bussanmas	Byron-Jackson	1950	215	16	--	--	T, G	Irr	160	Red beds at 215 ft.
F-25	T. I. Barson	C. H. Harmon	1948	158	18	--	--	T, G	Irr	160	Pump set at 132 ft.
F-26	H. D. Dutton	Kirkland & Garland	1946	220	18	--	--	T, G	Irr	125	
F-27	do	J. D. Kirkland	1950	220	16	77.6	Aug. 8, 1950	T, G	Irr	140	Reported discharge, 900 gpm March 1950.
F-28	Joe D. Gilmore	C. Harmon	1948	200	16	54.5	do	T, G	Irr	65	
F-29	R. Willitt	do	1950	194	18	59.0	do	T, G, 100	Irr	80	
F-30	G. C. Bearden	do	1948	234	16	59.0	do	T, G, 120	Irr	165	
F-31	W. Nerman	--	1947	--	--	61.6	Aug. 3, 1950	T, G	Irr	150	Pump: 8-in. set at 110 ft.
F-32	C. N. Stine	C. Harmon	1950	202	16	48.6	do	T, S, 120	Irr	160	
F-33	V. Melton	do	1948	220	14	43.0	Apr. 3, 1950	T, G	Irr	150	Red beds at 215 ft.
F-34	J. W. Boozer	--	1947	200	16	a/30	Oct. 18, 1951	T, G	Irr	100	
F-35	J. F. Stines	C. Harmon	1950	200	16	a/48	Mar. 1950	T, G	Irr	100	Red beds at 200 ft.
F-36	Roy Hunter	J. D. Kirkland	1950	197	16	42.4	Aug. 1, 1950	T, G	Irr	160	



Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
F-37	G. W. Masten	C. Harmon	1947	199	16	--	--	T,G	Irr	135	
F-38	do	do	1948	230	16	--	--	T,G	Irr	170	Pump: 10-in. set at 130 ft.
F-39	Martin Parmer	-- Ballard	1949	196	16	a/55	Aug. 1950	T,G	Irr	120	
F-40	C. A. Duffy	C. Harmon	1950	160	16	--	--	T,G	Irr	89	Reported discharge, 1,000 gpm in Feb. 1950.
F-41	F. O. Masten	-- Forgestan	1941	210	16	b/40.1	Sept. 3, 1942	T,G	Irr	--	Pump: 8-in., 3-stage, set at 120 ft.
F-42	do	Shorty Ware	1944	200 <sup>+</sup>	16	--	--	T,G	Irr	--	Reported drawdown 60 ft by owner.
F-43	do	J. M. Clayton	1941	212	16	51.2 51.3	Feb. 22, 1944 Aug. 1, 1950	T,G	Irr	--	
F-44	N. R. Oley	C. Harmon	1948	215	16	38.5	Aug. 1, 1950	T,G	Irr	150	
F-45	E. F. Nuttall	J. D. Kirkland	1949	224	16	65.9	Aug. 2, 1950	T,G	Irr	150	
F-46	T. W. Simmons	C. Harmon	1949	199	16	--	--	--	Irr	100	
*F-47	Mike Carter	Green Machinery Co.	1938	210	16	55.5	Feb. 2, 1944	T,G	Irr	130	Pump: 8-in. set at 120 ft. Temp. 64°F.
F-48	Mat Nix	J. D. Kirkland	1949	225	--	--	--	--	Irr	--	
F-49	Mrs. R. L. White	-- Furgeson	1941	215	16	53.2	Aug. 2, 1950	--	Irr	50	
F-50	Mat Nix	Kirkland & Ware	1949	224	16	64.0	do	T,G	Irr	200	Reported discharge, 1,000 gpm Aug. 3, 1950.
F-51	W. E. Priddy	J. W. Hornbrook	1950	212	16	45.8	Oct. 18, 1951	None	N	120	Altitude of land surface, 3,655.5 ft. Well abandoned in 1951. Red beds at 206 ft.
F-52	W. H. Priddy	C. Harmon	1948	212	16	44.0	do	T,G	Irr	170	Altitude of land surface, 3,654.4 ft. Estimated discharge, 1,500 gpm Sept. 19, 1950.
F-53	Paul D. Bennett	--	1947	221	18	--	--	T,G	Irr	170	
F-54	Jim E. Roberts	C. Harmon	1950	213	16	41.5	Aug. 3, 1950	T,G	Irr	70	Altitude of land surface, 3,649.4 ft.
F-55	Mike Carter	Tom Payne	1946	228	--	--	--	T,G	Irr	130	
F-56	W. E. Elms	J. D. Kirkland	1950	260	16	73.4	Aug. 3, 1950	T,G	Irr	140	Measured discharge, 850 gpm Apr. 4, 1952. Owner reports discharge decreases to 600 gpm when nearby wells are pumped.
F-57	R. D. Nix	L. Ware	1946	220	16	--	--	T,G	Irr	160	
F-58	R. L. Mayfield	C. Harmon	1948	180	16	59.2	Aug. 1, 1950	T,G	Irr	150	
F-59	Milton Wiseman	--	1948	217	16	77.1	Aug. 3, 1950	T,G	Irr	200	

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
F-60	E. W. Baccus	S. Ware	1949	217	16	68.6	Aug. 3, 1950	T,G	Irr	100	Pump: 8-in. set at 120 ft.
F-61	B. D. Garland	C. Harmon	1949	240	16	--	--	T,G	Irr	110	
F-62	G. Langford	do	1949	220	16	82.0	Aug. 3, 1950	T,G	Irr	125	
F-63	B. D. Garland	do	1949	250	16	--	--	T,G	Irr	100	Casing set on red beds.
F-64	R. D. Nix	L. Ware	1947	235	16	--	--	T,G	Irr	160	Pump: 10-in., 2-stage, set at 140 ft.
F-65	J. D. Chester	Kirkland & Ware	1948	218	16	--	--	T,G	Irr	140	
F-66	Mat Nix	L. Ware	1946	220	16	--	--	T,G	Irr	100	
F-67	A. W. Messamore	C. Harmon	1950	218	18	77.4	Aug. 3, 1950	T,G	Irr	150	
F-68	W. J. New	J. D. Kirkland	1950	200 <sup>+</sup>	16	--	--	T,G	Irr	100	
F-69	B. Milligan	Kirkland Pump Co.	1950	220	16	82.7	Aug. 3, 1950	T,G	Irr	90	Reported discharge, 1,000 gpm in January 1950.
F-70	J. W. Gosdin	A. W. Fish	1945	225	16	71.0	do	T,G	Irr	100	
F-71	do	-- Hornbrook	1948	226	16	75.9	do	T,G	Irr	100	See log.
F-72	M. D. Abbott	J. D. Kirkland	1946	235	18	77.7	do	T,G	Irr	160	
F-73	M. M. White, Sr.	do	1949	230	16	--	--	T,G	Irr	190	
F-74	A. C. Edwards	do	1946	223	16	72.5	Aug. 3, 1950	T,G	Irr	150	Casing: 16-in. to 200 ft.
F-75	G. Tooley	Green Machinery Co.	1948	200	16	--	--	T,G	Irr	170	
F-76	Frost & Blanchard	C. Harmon	1950	229	16	57.8	Aug. 3, 1950	T,G	Irr	125	
F-77	Oby Blanchard	L. Ware	1947	240	16	--	--	T,G	Irr	135	
F-78	A. L. Mixon	-- Garland	1947	220	16	69.9	Aug. 7, 1950	T,G	Irr	160	
F-79	Mike Carter	C. Harmon	1946	208	16	--	--	T,G	Irr	177	Casing: 16-in. to 140 ft. Reported discharge, 900 gpm Aug. 7, 1950.
F-80	L. E. Edwards	J. D. Kirkland	1950	223	16	75.0	Aug. 3, 1950	T,G	Irr	75	
F-81	H. E. Nix	do	1946	237	16	--	--	T,G	Irr	100	
F-82	Don Brewster	-- Morgan	1949	244	16	69.1	Sept. 19, 1950	T,G	Irr	170	
F-83	S. E. Lance	C. Harmon	1948	229	16	78.9	Aug. 3, 1950	T,G	Irr	150	
F-84	"Doc" Shavors	--	--	--	--	--	--	--	--	--	
F-85	L. D. Halsell	L. Ware	1946	234	16	79.0	Aug. 3, 1950	T,G	Irr	225	
F-86	do	Green Machinery Co.	1949	240	16	83.0	do	T,G	Irr	150	Altitude of land surface, 3,671.1 ft. See log.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
F-87	G. Batson	C. Harmon	1948	236	18	--	--	T,G	Irr	160	Altitude of land surface, 3,659.9 ft.
F-88	do	do	1947	253	18	--	--	T,G	Irr	180	
F-89	J. B. Ford	do	1949	239	16	69.4	Aug. 7, 1950	T,G	Irr	140	Altitude of land surface, 3,669.9 ft. Pump: 8-in. set at 150 ft. Red beds at 236 ft.
F-90	W. H. Grigsby	Kirkland & Ware	1947	218	16	52.1	do	T,G	Irr	100	Altitude of land surface, 3,656.8 ft. Red beds at 215 ft.
F-91	W. M. Toombs	S. Ballard	1947	256	18	62.6	Aug. 7, 1950	T,G	Irr	110	
F-92	E. S. Williams	do	1948	252	16	54.6	do	T,G	Irr	80	Estimated discharge, 950 gpm.
F-93	H. Woodard	C. Harmon	1950	225	16	51.7	do	T,G	Irr	75	
F-94	A. A. Tomes	J. D. Kirkland	1947	250	16	58.9	do	T,G	Irr	130	
F-95	S. B. Sherrill	-- Fowler	1945	252	18	70.5	do	T,G	Irr	155	
F-96	Troy Rowland	-- Ware	1948	255	16	83.1	do	T,G, 145	Irr	94	
F-97	C. V. Harmon	C. V. Harmon	1937	210	16	76.9	Mar. 18, 1937	None	N	--	Well caved in; abandoned Sept. 22, 1950.
F-98	V. R. Stagner	Kirkland & Garland	1947	254	16	61.0	Aug. 7, 1950	T,G	Irr	100	
F-99	D. C. Oziment	C. V. Harmon	1947	234	16	--	--	None	N	--	Well unused; pump and casing lodged in well.
F-100	G. V. Oxford	--	1945	227	16	62.3	Aug. 7, 1950	T,G	Irr	145	Pump: 10-in. set at 146 ft.
F-101	C. M. Coffey	J. D. Kirkland	1949	219	16	75.0	do	T,G	Irr	96.5	
F-102	R. M. Crawford	do	1947	228	16	66.4	Aug. 8, 1950	T,G	Irr	130	
F-103	do	do	1949	228	16	68.8	do	T,G	Irr	100	Reported discharge, 750 gpm March 1949.
*F-104	Mrs. M. V. Reynolds	-- Otman	1949	210	16	71.4	do	T,G	Irr	100	Water level at 139.1 ft after 9 hours of pumping at 530 gpm May 2, 1952. Temp. 64° F.
F-105	W. V. Reynolds	J. D. Kirkland	1950	212	16	69.8	do	T,G	Irr	45	
F-106	R. A. Burgess	C. Harmon	1950	225	16	71.9	do	T,G	Irr	75	Reported discharge, 700 gpm in January 1950.
F-107	W. P. Holland	Green Machinery Co.	1941	222	18	a/70	--	T,G	Irr	160	Water level reported at 120 ft. after 36 hours of pumping at 1,100 gpm. See log.
F-108	R. L. May	do	1948	220	16	70.3	Aug. 8, 1950	T,G	Irr	125	Pump: 8-in. set at 140 ft.
F-109	H. S. Phelps	C. Harmon	1948	226	16	--	--	T,G	Irr	--	

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
F-110	F. H. Hicks	B. D. Garland	1948	220	16	--	--	T,G	Irr	85	
F-111	A. R. Jones	C. Harmon	1950	235	16	72.0	Aug. 10, 1950	T,G	Irr	140	Red beds at 233 ft.
F-112	J. J. Durham	do	1947	221	14	69.2	Aug. 7, 1950	T,G	Irr	140	
F-113	S. Harmon	S. Ware	1946	241	14	--	--	T,G	Irr	130	
F-114	C. Harmon	--	1947	234	16	--	--	T,G	Irr	90	
F-115	H. W. Woodward	-- Garland	1947	223	16	66.8	Aug. 8, 1950	T,G	Irr	80	Casing set on red beds.
F-116	N. A. Griffing	C. Harmon	1950	217	16	--	--	T,G	Irr	50	
F-117	B. O. McDaniel	do	1950	280	16	--	--	T,G	Irr	130	
F-118	M. Autry	do	1948	235	16	--	--	T,G	Irr	140	
*F-119	City of Amherst	J. M. Whitfield	1936	210	12½	a/80	--	T,E, 25	P,S	--	Reported drawdown, 8 ft after 53 hours of pumping at 700 gpm.
F-120	R. Young	C. Harmon	1950	223	16	71.7	Sept. 19, 1950	T,E, 40	Irr	--	Estimated discharge, 600 gpm.
F-121	John Horton	do	1949	219	16	--	--	T,E, --	Irr	100	
F-122	T. I. Batson	L. P. Davis	1947	220	16	--	--	T,G	Irr	140	Pump: 10-in. set at 132 ft.
F-123	T. I. and G. Batson	--	1946	221	16	--	--	T,G	Irr	160	Altitude of land surface, 3,667.7 ft.
F-124	S. W. Cowen	Green Machinery Co.	1948	200	16	72.3	Sept. 14, 1950	T,G	Irr	60	Water level reported at 66 ft in March 1948.
F-125	A. W. Messamore	C. Harmon	1950	228	16	--	--	T,G	Irr	70	
F-126	Delvin Batson	do	1950	224	16	82.3	Oct. 18, 1951	T,G	Irr	120	Altitude of land surface, 3,666.7 ft. Red beds at 222 ft.
F-127	E. J. Bussanmas	-- Garland	1947	218	16	--	--	T,G	Irr	82	
F-128	Delvin Batson	C. Harmon	1948	236	16	--	--	T,G	Irr	120	
F-129	do	--	1934	235	--	85.5	Aug. 3, 1950	T,G	Irr	120	Altitude of land surface, 3,670.4 ft. Red beds at 232 ft.
F-130	I. N. Griffing	C. V. Harmon	1948	232	16	84.2	Sept. 14, 1950	T,G	Irr	125	
F-131	Mrs. L. W. Howard	do	1948	224	16	73.5	Sept. 15, 1950	T,G, 165	Irr	240	Reported discharge, 900 gpm in November 1948.
F-132	V. H. Jennings	J. D. Kirkland	1949	204	16	81.1	do	T,G	Irr	130	
F-133	John Humphreys	Green Machinery Co.	1948	190±	16	83.1	do	T,G	Irr	177	
F-134	J. M. Brantley	S. Ware	1947	200	16	86.9	do	T,G	Irr	196	

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
F-135	H. L. Messamore	Fred Foust	1949	228	16	85.2	Sept. 14, 1950	T,G	Irr	170	
F-136	W. J. Martin	S. Ware	1950	222	16	83.8	Sept. 15, 1950	T,G	Irr	140	Red beds at 220 ft.
F-137	H. L. Messamore	C. Harmon	1950	212	16	83.8	Sept. 14, 1950	T,G	Irr	170	Driller reported 62 ft of water-bearing sand. Red beds at 207 ft.
F-138	R. H. Lance	Sam Ballard	1948	203	16	94.7	Sept. 15, 1950	T,G	Irr	100	
F-139	L. B. Smallwood	-- Kirkland	1950	200	16	--	--	T,G	Irr	100	
*F-140	Halsell Land & Cattle Co.	--	--	21	5	11.4 5.0	May 29, 1952 Nov. 7, 1952	C,W	S	--	Altitude of land surface, 3,628.31 ft. Temp. 63.5°F.
F-141	Southwestern Public Service Co.	D. L. McDonald	1951	191	14	21.2	Apr. 10, 1952	T,E	Ind	--	Altitude of land surface, 3,639.2 ft. Casing perforated from 101 to 191 ft. Reported drawdown, 31 ft while pumping at 1,000 gpm in 1951. See log.
*F-142	do	do	1951	201	14	34.7 36.1 37.0 36.0	Apr. 22, 1952 June 19, 1952 July 9, 1952 Oct. 6, 1952	T,E, 40	Ind	--	Altitude of land surface, 3,669.52 ft. Drawdown 15 ft after 24 hours of pumping at 889 gpm. Temp. 64°F. See log.
F-143	do	do	1950	200	14	32.0 33.2	May 29, 1952 Mar. 3, 1953	T,E, 40	Ind	--	Altitude of land surface, 3,661.38 ft.
*F-144	do	do	1951	205	14	32.0	Mar. 3, 1953	T,E, 40	Ind	--	Altitude of land surface, 3,657.48 ft. Pump: 6-in., 5-stage, set at 164.5 ft. Casing perforated from 115 to 205 ft. Reported drawdown 23 ft while pumping at 1,000 gpm in 1951. See log.
*F-145	---	---	--	Spring	--	--	--	--	S	--	Estimated flow, 75 gpm, May 1, 1952; dry Aug. 28, 1952.
F-146	Welcom Starks	---	--	92	5	67.9	June 22, 1939	None	N	--	Abandoned in 1944.
G-1	-- Osemun	---	1948	70	16	--	--	T,G, 145	Irr	130	Measured discharge, 868 gpm Apr. 2, 1952.
*G-2	Ada L. Crawford	-- West	1936	183	16	--	--	T,G	Irr	--	Estimated discharge, 800 gpm Mar. 30, 1937.
*G-3	Geo. Woods	Peerless Pump Co.	1948	204	16	--	--	T,G	Irr	--	Water level 74.1 ft, Apr. 2, 1952, after 51 hours of pumping at 985 gpm. Temp. 63°F.
G-4	F. Boseman	---	--	200	--	53.9	Sept. 28, 1950	T,G	Irr	--	
G-5	T. G. Butler	Green Machinery Co.	--	--	--	--	--	--	--	--	
G-6	Geo. Woods	do	1948	200	16	52.2	Sept. 28, 1950	T,G, 110	Irr	--	
G-7	C. W. Freer	do	1945	212	16	--	--	T,G, 125	Irr	130	Pump: 8-in., 2-stage, set at 110 ft. Reported discharge, 1,100 gpm in December 1945.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
G-8	W. M. Huckabee	Peerless Pump Co.	1935	150	16	a/50	1935	T,G, 100	Irr	80	Pump: 8-in., 2-stage, set at 70 ft. Estimated discharge, 900 gpm June 6, 1950.
G-9	C. E. Bley	-- Whitfield	1937	143	17	76.9 70.8	June 14, 1938 Sept. 22, 1950	T,G	Irr	--	
G-10	J. J. Moses	S. Scroggins	--	212	12	70.0	Sept. 28, 1950	T,G	Irr	--	Reported water level 60 ft January 1945. Pump: 10-in., 1-stage, set at 100 ft. See log.
G-11	A. D. Moses	Green Machinery Co.	1947	202	16	59.8	do	T,G	Irr	--	
G-12	C. E. Bley	do	1944	210	16	a/60	1944	T,G, 95	Irr	--	
G-13	Drexel Lawson	do	1950	200	16	a/50.0	--	T,G, 100	--	--	
G-14	C. E. Bley	do	1944	208	16	a/62.0	1942	T,G, 145	Irr	--	See log.
G-15	W. B. Combest	Consolidated Oil & Gas Co.	1948	204	16	--	--	T,G	Irr	--	
G-16	J. L. Irvin	--	1947	240	16	74.2	Sept. 12, 1950	T,G, 100	Irr	160	
G-17	O. B. LeFrance	Green Machinery Co.	1950	201	16	a/70	Jan. 1950	T,G	Irr	--	
G-18	-- Carlisle	do	--	--	--	--	--	T,G, 145	Irr	160	
G-19	L. H. Green	do	1941	202	16	a/64	Jan. 1941	--	--	--	Pump: 10-in., 1-stage, set at 96 ft. See log.
G-20	S. L. Knox	S. Scroggins	1948	220	16	65.9	Sept. 12, 1950	T,G, 100	Irr	145	
G-21	C. E. Galloway	Green Machinery Co.	1948	216	16	70.3	do	T,G	Irr	160	Pump: 10-in., 2-stage, set at 130 ft.
G-22	G. T. Galloway	M. A. Patton	1937	200	13, 10	66.1	May 28, 1937	T,G, 85	Irr	--	Casing: 13-in. to 140 ft, 10-in. to 200 ft.
G-23	C. C. Galloway	High Plains Co.	1946	203	16	80.1	Sept. 12, 1950	T,G	Irr	135	Pump: 8-in., 3-stage, set at 110 ft.
G-24	W. B. Combest	Consolidated Oil & Gas Co.	1947	214	16	--	--	T,G	Irr	--	Measured discharge, 705 gpm Apr. 3, 1952.
G-25	Mrs. R. E. Womack	Green Machinery Co.	1948	200	16	61.9	Sept. 12, 1950	T,G	Irr	160	
G-26	H. B. Maxey	do	1949	200	16	a/65	Feb. 1949	T,-	Irr	--	
G-27	E. N. Bnrrus	L. B. West	1936	182	15, 12, 10	70.7	May 28, 1937	T,G, 85	Irr	--	Casing: 15-in. to 110 ft, 12-in. to 170 ft, 10-in. to 182 ft, perforated from 65 to 182 ft.



Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
G-28	W. A. Schreier	Green Machinery Co.	1948	185	16	58.3	Nov. 9, 1950	T,G	Irr	200	
G-29	C. A. Workman	Farm Stores	1949	168	16	--	--	T,G, 85	Irr	120	
G-30	D. Lawson	Green Machinery Co.	--	--	--	--	--	T,G	Irr	--	
G-31	-- Bartlett	--	1948	185	16	a/59	1948	T,G	Irr	200	
*G-32	Bartlett Farms	Green Machinery Co.	1948	200	16	56.8	Nov. 10, 1950	T,G	Irr	--	Measured discharge, 625 gpm Sept. 4, 1950. Temp. 63°F.
G-33	Mrs. L. McGill	do	1949	223	16	a/50	Apr. 1949	T,G	Irr	--	See log.
G-34	do	do	1947	210	16	60.2	Sept. 14, 1950	T,G	Irr	--	Casing: 16-in. to 203 ft.
G-35	Walter Rose	do	1949	256	16	a/53	Nov. 1949	T,G	--	--	Pump: 10-in., 2-stage, set at 150 ft. See log.
G-36	Mrs. L. McGill	do	1948	200	16	a/54	Oct. 1948	T,G	Irr	--	
G-37	Walter Rose	do	1948	253	16	a/56	Oct. 1948	T,G	--	--	
*G-38	F. Dougherty	--	--	67	5	59.4	Apr. 27, 1951	C,W	S	--	In sandhills. Temp. 63°F.
G-39	--	--	--	62	5	56.4	do	C,W	S	--	Do.
G-40	E. J. Bussanmas	Byron-Jackson	1948	215	16	75.6	Aug. 14, 1950	T,G	Irr	105	
G-41	Balford Rochell	Green Machinery Co.	1948	206	16	--	--	T,G	Irr	125	
G-42	D. H. Bryant	L. P. Davis	1945	200±	16	--	--	T,G	Irr	145	
G-43	Martin Parmer, Sr.	-- Bullard	1944	200	16	45	Aug. 11, 1950	T,G	Irr	140	Drilled to red beds.
G-44	Balford Rochell	Green Machinery Co.	1948	206	16	--	--	T,G	Irr	125	
G-45	Mrs. Ben Davis	Consolidated Oil & Gas Co.	1947	214	16	79.8	Aug. 14, 1950	G	Irr	100	Reported discharge, 1,000 gpm September 1947.
G-46	do	Green Machinery Co.	1938	198	16	93.1	do	T,G, 100	Irr	125	
G-47	Eli Young	--	1945	220	--	--	--	T,G	Irr	170	
*G-48	do	Fred Foust	1936	221	15½	a/78	Sept. 1936	None	N	--	Abandoned after Apr. 1, 1937. Temp. 63°F. See log.
G-49	I. R. Cummings	S. Ballard	1946	251	16	79.1	Aug. 14, 1950	T,G	Irr	150	
G-50	L. L. Uselton	C. Harmon	1948	244	14	92.6	do	T,G	Irr	90	
G-51	do	Green Machinery Co.	1940	216	16	--	--	None	N	--	Abandoned, September 1948. See log.
G-52	do	C. Harmon	1949	246	16	80.3	Aug. 14, 1950	T,G	Irr	100	Pump: 9-in. set at 120 ft. Drilled to red beds.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
G-53	A. Wiggins	S. Ballard	1948	200	16	--	--	T,G	Irr	95	Water level 97.6 ft after 4 hours of pumping at approximately 900 gpm Aug. 14, 1950.
G-54	I. R. Cummings	C. N. Tucker	1950	213	16	--	--	T,G	Irr	175	See log.
G-55	L. C. Hewitt	F. Foust	1947	192	18	70.4	Aug. 14, 1950	T,G	Irr	130	Casing: 18-in. to 170 ft.
G-56	W. J. Petty	--	1945	200	16	--	--	T,G	Irr	170	
G-57	E. O. Tunnell	L. P. Davis	1944	200	16	70.2	Oct. 29, 1950	T,G	Irr	165	
G-58	C. V. Hill	Green Machinery Co.	1945	192	--	--	--	T,G	Irr	160	Pump: 10-in. set at 160 ft; formerly set at 110 ft. See log.
G-59	L. T. Green	do	1937	175	16	84.9	Aug. 15, 1950	T,G	Irr	125	
G-60	J. M. Farmer	do	1945	195	16	81.0	do	T,G	Irr	177	Reported discharge, 1,300 gpm in November 1945.
G-61	L. T. Green	do	1947	200	16	97.4	do	T,G	Irr	125	
G-62	Floyd Rogers	Consolidated Oil & Gas Co.	1948	250	16	97.9	Aug. 25, 1950	T,G	Irr	180	See log.
G-63	J. R. Tucker	J. D. Kirkland	1949	210	16	--	--	T,G	Irr	150	
G-64	Lee Marshall	Green Machinery Co.	1948	200	16	77.3	Aug. 28, 1950	T,G	Irr	100	Estimated discharge, 900 gpm Aug. 25, 1950.
G-65	H. G. Egenbacher	Consolidated Oil & Gas Co.	1947	208	16	71.4	do	T,G	Irr	179	See log.
G-66	C. W. Armstrong	Green Machinery Co.	1944	202	16	--	--	T,G	Irr	120	
G-67	R. A. Reed	C. Harmon	1950	214	--	--	--	T,G	Irr	80	
G-68	C. W. Armstrong	Green Machinery Co.	1946	196	16	--	--	T,G	Irr	120	Drilled to red beds.
G-69	do	do	1940	200	16	--	--	T,G	Irr	120	See log.
G-70	J. K. Elliott	-- Garland	1947	209	16	83.1	Aug. 28, 1950	T,G	Irr	100	Pump: 8-in. set at 140 ft.
G-71	J. E. Elliott	Green Machinery Co.	1947	209	16	79.2	do	T,G	Irr	100	
G-72	A. E. Howard	L. P. Davis	1945	208	16	--	--	T,G	Irr	140	
G-73	G. R. Adams	Fred Foust	1940	242	16	--	--	T,G	Irr	125	
G-74	Ray Blessing	Texas Pump & Equipment Co.	1948	200	16	--	--	T,G	Irr	85	
G-75	G. R. Adams	--	1947	210	16	74.0	Aug. 31, 1950	T,G	Irr	80	
G-76	Harold Robson	L. P. Davis	1947	206	16	--	--	T,G, 165	Irr	80	Reported discharge, 850 gpm in 1947.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
G-77	Beulah Robinson	--	1946	--	--	--	--	T,G	Irr	80	
G-78	Neily Kilpatrick	Green Machinery Co.	1950	204	16	69.5	Aug. 31, 1950	T,G	Irr	--	Estimated discharge, 850 gpm Aug. 31, 1950.
G-79	K. W. Mahaffey	do	1941	208	16	72.9	do	T,G	Irr	180	Pump: 8-in., 2-stage, set at 108 ft. See log.
G-80	M. T. Hukill	Kirkland & Garland	1946	200	16	--	--	T,G	Irr	75	
G-81	J. C. Muller	Green Machinery Co.	1945	205	16	a/59	June 1950	T,G	Irr	155	Water level reported at 79 ft while pumping at 900 gpm in March 1945.
G-82	B. F. Roberts	Kirkland & Garland	1946	226	16	--	--	T,G	Irr	160	
G-83	W. C. Parkey	Green Machinery Co.	1949	230	16	--	--	T,G	Irr	100	
G-84	G. A. Branton	do	1946	215	16	--	--	T,G	Irr	135	
G-85	C. E. Hukill	C. Harmon	1950	212	--	73.1	Aug. 31, 1950	T,G	Irr	100	Estimated discharge, 750 gpm in June 1950.
G-86	H. L. Garner	Kirkland & Garland	1946	200	16	92.1	Sept. 22, 1950	T,G	Irr	150	
G-87	B. C. Hukill	Fairbanks-Morse	--	200	--	--	--	T,G	Irr	100	
G-88	J. M. Farmer	Green Machinery Co.	1940	225	16	--	--	T,G	Irr	150	Pump: 10-in. set at 130 ft.
G-89	S. S. Rushing	do	1939	--	--	--	--	T,G	Irr	100	
G-90	B. M. Farmer	do	1949	205	16	--	--	T,G	Irr	140	
G-91	do	do	1949	205	16	--	--	T,G	Irr	125	
G-92	Wayne Cowan	do	1940	180	16	--	--	T,G, 95	Irr	140	See log.
G-93	Vernon Qualls	do	1940	150	16	70.3	Aug. 30, 1950	T,G	Irr	200	Pump: 8-in., 2-stage, set at 84 ft, lowered to 104 ft.
G-94	H. C. Pickrell	-- Whitfield	1935	180	16	76.9	do	T,G	Irr	175	
G-95	D. O. Aldridge	--	1945	--	--	75.7	do	T,G	Irr	100	
G-96	W. J. Aldridge	--	1937	--	--	--	--	T,G	Irr	150	
G-97	A. C. Chesher	--	1945	140	16	a/67	1945	T,G	Irr	130	Pump: 10-in., 2-stage, set at 130 ft.
*G-98	Mrs. Eva Wells	-- Whitfield	1937	193	16, 14	--	--	T,G	Irr	160	Casing: 16-in. to 150 ft, 14-in. to 193 ft. Water level at 91.2 ft when pumping approximately 900 gpm Aug. 30, 1950. Temp. 64 F.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
G-99	Mrs. P. Mathews	--	1937	--	--	79.5	Aug. 30, 1950	C,W	S	--	Insufficient water for irrigation.
G-100	do	--	1947	193	16	--	--	T,G	Irr	175	
G-101	L. C. Hewitt	Fred Foust	1948	220	16	--	--	T,G	Irr	100	
G-102	C. V. Hill	Green Machinery Co.	1948	197	16	79.3	Aug. 31, 1950	T,G	Irr	110	See log.
G-103	L. C. Hewitt	Fred Foust	1948	214	16	--	--	T,G	Irr	100	
G-104	A. M. Cowen	Green Machinery Co.	1948	200	16	74.0	Aug. 25, 1950	T,G	Irr	120	Pump: 8-in., set at 130 ft.
G-105	J. M. Briscoe	do	1948	196	16	--	--	--	Irr	185	
G-106	C. V. Hill	do	1946	193	16	--	--	T,G	Irr	120	
G-107	B. M. Farmer	do	1947	190	16	--	--	T,G	Irr	100	
G-108	do	do	1938	200	16	74.4	Aug. 28, 1942	T,G	Irr	100	See log.
G-109	V. G. Martin	do	1949	200	16	--	--	T,G	Irr	110	Drilled to red beds.
G-110	A. L. Berry	do	1948	208	16	76.2	Aug. 25, 1950	T,G	Irr	130	
G-111	V. G. Martin	Buck Price	1940	202	16	a/90	Oct. 1940	T,G	Irr	110	Pump: 8-in., 2-stage, set at 120 ft. See log.
G-112	B. M. Farmer	Green Machinery Co.	1948	193	16	76.2	Aug. 15, 1950	T,G	Irr	100	
G-113	do	do	1937	190	16	87.2	do	T,G	Irr	100	
G-114	A. B. Terrell	do	1945	160	16	69.6	Sept. 22, 1950	T,G	Irr	150	
G-115	C. C. Slaughter	S. Ballard	1947	196	16	72.0	Oct. 15, 1950	T,G	Irr	120	
G-116	J. H. Willmore	Irving Barnett	1946	192	16	--	--	T,G, 165	Irr	170	Drilled to red beds.
G-117	R. T. Truelock	Kirkland & Garland	1945	204	18	67.6	Aug. 14, 1950	--	Irr	145	
G-118	E. L. Ross	Green Machinery Co.	1948	200	16	--	--	T,G	Irr	155	
G-119	J. H. Patterson	-- Roberts	1948	200	16	76.6	Sept. 22, 1950	T,G	Irr	160	
G-120	Mrs. N. Henry	--	1948	200 <sup>+</sup>	--	72.6	do	T,G	Irr	160	
G-121	E. L. Ross	-- Garland	1950	188	16	--	--	T,G	Irr	75	
G-122	Ed Seely	J. H. Barnett	1948	190	16	--	--	T,G	Irr	142	
G-123	Roy Gilbert	do	1947	196	16	--	--	T,O	Irr	150	
G-124	J. C. Hall	C. Harmon	1949	180	16	74.6	Sept. 22, 1950	T,G	Irr	100	Pump: 8-in., set at 130 ft.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
G-125	E. W. Liles	Bishop Bros.	1948	217	16	78.9	Aug. 8, 1950	T,G	Irr	130	
G-126	J. W. Hunter	Green Machinery Co.	1948	231	16	89.9	do	T,G	Irr	125	Drilled to red beds.
G-127	J. W. Coffey	S. Ware	1947	218	16	74.8	do	T,G	Irr	150	Reported discharge, 1,200 gpm in January 1947.
G-128	J. V. Burdett	C. Harmon	1947	226	16	76.5	Aug. 14, 1950	T,G	Irr	165	
G-129	Henry Sager	Fred Foust	1936	200	16, 10	74.2	Mar. 27, 1937	T,G, 60	Irr	90	Casing: 16-in. to 104 ft., 10-in. to 200 ft. Measured discharge, 650 gpm Mar. 27, 1937. Reported to break suction when pumping more than 650 gpm.
G-130	O. H. Davis	-- Kirkland	1949	206	18	78.7	Aug. 15, 1950	T,G	Irr	140	Drilled to red beds.
G-131	L. C. Hewitt	Fred Foust	1950	204	16	74.5	Aug. 14, 1950	T,G, 105	Irr	80	
G-132	J. W. Coulson	--	1939	209	16	75.0	Aug. 11, 1950	T,G, 100	Irr	150	Pump: 8-in., 3-stage, set at 120 ft.
G-133	Doyel Dean	--	1950	207	16	73.7	Aug. 14, 1950	T,G	Irr	95	
G-134	Mrs. Sudie Callen	Consolidated Oil & Gas Co.	1950	206	16	--	--	T,G	Irr	80	See log.
*G-135	R. E. Butler	Big T Pump Co.	1948	214	16	85.2	Oct. 12, 1951	T,G	Irr	70	Reported discharge, 800 gpm in December 1948.
G-136	Mrs. J. Q. Barnes	-- Barnett	1950	213	--	83.7	Aug. 14, 1950	T,G	Irr	150	
G-137	Millard Phillips	S. Ballard	1947	217	16	84.3	do	T,G	Irr	200	Pump: 10-in. set at 172 ft.
G-138	R. T. Truelock	Kirkland & Ware	1948	204	18	--	--	T,G	Irr	145	Drilled to red beds.
G-139	A. R. Vesper	-- Garland	1949	206	16	--	--	T,G	Irr	125	
G-140	G. Singer	-- Barnett	1947	198	16	--	--	T,G	Irr	75	Water reported to have gyp taste.
G-141	J. E. Johnson	-- Bogart	1945	189	16, 14	--	--	T,G	Irr	150	Casing: 16-in. to 172 ft., 14-in. to 189 ft. Reported 36 ft of water-bearing sand.
G-142	W. G. Singer	B. D. Garland	1948	186	14	74.6	Aug. 15, 1950	T,G	Irr	100	
G-143	R. L. Campbell	Consolidated Oil & Gas Co.	1947	196	16	70.6	do	T,G	Irr	180	
G-144	J. E. Johnson	-- Barnett	1947	184	16	--	--	T,G	Irr	140	Pump: 10-in., 2-stage, set at 130 ft. Red beds at 180 ft.
G-145	Ryan & Bass	--	1948	195	16	--	--	T,G	Irr	85	

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
G-146	Ryan & Bass	--	1947	195	16	85.4	Aug. 25, 1950	T, G	Irr	85	Water reported to have saline taste.
G-147	Mrs. J. C. Chaney	Garland Motor Co.	1948	204	16	--	--	T, G	Irr	160	Casing reported insufficiently perforated; water supply inadequate for irrigation, abandoned.
G-148	W. C. McCain	J. D. Kirkland	1947	206	16	--	--	None	N	--	Pump: 8-in., set at 130 ft.
G-149	do	do	1949	210	16	--	--	T, G	Irr	160	Drilled to red beds.
G-150	P. A. Woodul	Consolidated Oil & Gas Co.	1947	198	16	97.5	Aug. 30, 1950	T, G	Irr	175	Estimated discharge, 600 gpm Aug. 25, 1950.
G-151	H. C. Pickrell	--	1947	150 <sup>+</sup>	--	100.9	do	T, G	Irr	150	
G-152	Ryan & Bass	--	1947	195	16	--	--	T, G	Irr	85	
G-153	do	--	1947	195	16	--	--	T, G	Irr	85	
G-154	T. C. Faver	Green Machinery Co.	1946	200	14	--	--	T, G	Irr	125	
G-155	Art Chester	J. H. Barnett	1948	130	16	--	--	T, G	Irr	60	
G-156	R. W. Stanfield	Kirkland & Garland	1946	186	14	97.9	Aug. 30, 1950	T, G	Irr	160	
G-157	H. C. Pickrell	--	1937	--	--	97.3	Mar. 10, 1937	T, G	Irr	200	Deepened to red beds in 1950.
G-158	M. H. Qualls	A. W. Fish	1948	202	14	--	--	T, G	Irr	140	See log.
G-159	James Gimmeil	J. D. Kirkland & Ware	1948	200	16	108.8	Aug. 31, 1950	T, G	Irr	320	Pump: 10-in., set at 130 ft.
G-160	J. A. Turner	-- Garland	1945	--	--	--	--	--	Irr	160	Reported to have broken suction in 1948.
G-161	Mrs. M. McCown	L. A. Peoples	1947	210	16	--	--	T, G	Irr	77	
G-162	Carl Arnold	Fairbanks-Morse	1945	173	18	--	--	T, G	Irr	140	
*G-163	Mrs. E. L. Wilmer	-- Whitfield	1937	170	15	b/84.9 97.9	Apr. 1, 1937 Sept. 1, 1950	T, G	Irr	160	Drawdown 18.2 ft Apr. 6, 1937, after 31 hours of pumping an estimated 650 gpm. Measured discharge, 942 gpm Apr. 3, 1952.
G-164	Royce N. Goyne	Green Machinery Co.	1947	204	16	98.7	Sept. 22, 1950	T, G	Irr	110	Reported caving sands; well abandoned.
G-165	B. D. Garland	J. H. Barnett	1949	174	16	--	--	None	N	--	Casing: 16-in. to 179 ft. Reported discharge, 850 gpm in March 1949.
G-166	R. F. Brock	-- Morgan	1949	204	16	82.5	Aug. 30, 1950	T, G	Irr	80	
G-167	do	S. Ballard	1947	204	16	--	--	T, G	Irr	100	Pump: 10-in set at 168 ft.



Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
G-168	Walt Clifton	Haynes Motor Co.	1949	200	16	--	--	T,G	Irr	174	Drilled to red beds.
G-169	T. H. Hukill	Garland Pump Co.	1946	200	16	69.0	Aug. 31, 1950	T,G	Irr	100	
G-170	Mrs. H. V. Lynch	Green Machinery Co.	1945	224	16	--	--	T,G	Irr	150	Pump: 8-in., set at 170 ft. Discharge reported to decrease when nearby wells are pumped.
G-171	do	do	1945	295	16	--	--	None	N	--	Abandoned.
G-172	D. J. Parkey	do	1949	254	16	--	--	T,G	Irr	160	
G-173	L. C. Sansom	S. Thurkill	1944	209	14	--	--	T,G	Irr	165	Pump: 8-in., 4-stage, set at 110 ft.
G-174	D. E. Dyer	G. E. Garland	1946	201	16	71.9	Sept. 1, 1950	T,G	Irr	160	
G-175	W. O. Hendrick	-- Garland	1949	178	16	--	--	T,G	Irr	80	
G-176	L. W. Sullivan	S. Thurkill	1946	178	16	83.7	Aug. 31, 1950	T,G	Irr	125	Drilled to red beds. See log.
G-177	B. D. Garland	J. H. Barnett	1949	174	16	--	--	T,G	Irr	60	Uses sprinkler system.
G-178	J. W. Johnson	A. W. Fish	1946	220	16	--	--	T,G	Irr	120	
*G-179	L. T. Green	Green Machinery Co.	1936	150	16	75?	--	T,G	Irr	150	Water level at 94.8 ft after 3 hours of pumping an estimated 1,000 gpm Apr. 13, 1937. Temp. 63°F.
G-180	do	do	1945	208	16	--	--	T,G	Irr	150	Pump: 10-in., set at 120 ft.
G-181	C. P. Montgomery	do	1937	210	16	--	--	T,G	Irr	160	Drilled to red beds.
G-182	Dan Heard	T. W. Price	1940	211	15	a/68	Aug. 1940	T,G	Irr	--	See log.
G-183	R. N. Nicholas	A. W. Fish	1945	197	14	--	--	T,G	Irr	160	
G-184	M. W. Wheeler	Green Machinery Co.	1940	224	16	a/79.1	--	T,G	Irr	--	Water level reported at 70 ft Oct. 18, 1940. See log.
G-185	John Ramage	-- Garland	1949	180	16	--	--	T,G	Irr	60	
G-186	C. A. Duffy	Peerless Pump Co.	1950	210	16	--	--	T,G	Irr	80	
*G-187	J. W. Warren	P. Mayfield	1950	199	16	86.4	Aug. 31, 1950	T,G	Irr	100	Water level at 125.6 ft Apr. 3, 1952, after 17 days of pumping at 915 gpm. Temp. 64°F.
G-188	B. D. Garland	J. H. Barnett	1946	154	16	--	--	T,G	Irr	100	
G-189	Carl Arnold	do	1949	179	18	--	--	T,G	Irr	100	Reported discharge, 700 gpm in February 1949.
G-190	Fay Moore	Consolidated Oil & Gas Co.	1948	160	16	31.0	Sept. 21, 1950	T,G	Irr	70	Well in draw.
G-191	L. T. Green	Green Machinery Co.	1951	180	16	a/67	Oct. 1951	T,G	Irr	--	Well near edge of depression. To be used to drain lake and for irrigation. See log.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
G-192	H. Roberson	-- Moulder	1949	238	10	63.9	Aug. 29, 1952	C,W	D,S	--	Well may be used for irrigation.
H-1	Elbert Hooper	H. O. Boyle	1946	206	12½	--	--	T,E, 30	Irr	--	Casing perforated from 60 to 206 ft. Pump: 8-in., 3-stage, set at 120 ft. See log.
H-2	W. L. Galloway	--	--	--	--	--	--	T,E, 30	--	--	
H-3	T. Cumbest	Green Machinery Co.	1948	215	16	82.5	Sept. 20, 1950	T,E, 30	Irr	110	
H-4	C. A. Womack	do	1950	157	16	a/90.0	--	T,G	Irr	--	
H-5	J. F. Howard	C. Robertson	--	--	--	--	--	T,G, 165	--	--	
H-6	L. D. Smith	Dennis Henager	1945	223	16	a/110	Aug. 1946	T,G	--	--	See log.
H-7	E. M. Venable	Green Machinery Co.	1945	200	16	a/80	Sept. 1945	T,G	Irr	125	Measured discharge, 875 gpm Aug. 20, 1950.
H-8	H. E. Owens	do	1948	232	16	a/76	June 1948	T,G	Irr	--	
*H-9	C. A. Davis	A. W. Fish	1948	195	16	96.1	Sept. 20, 1950	T,G, 165	Irr	160	Water level 129.1 ft May 2, 1952, after 44 hours of pumping at 1,292 gpm. Temp. 64°F.
H-10	do	do	1947	205	16	a/87	1947	T,G, 165	Irr	160	
H-11	J. C. Wozencraft	Consolidated Oil & Gas Co.	1948	198	16	a/78	Feb. 1948	T,G	Irr	--	
H-12	C. Fancher	Green Machinery Co.	1949	218	16	a/80	Mar. 1949	T,G	Irr	--	
H-13	D. McMillen	do	--	--	--	--	--	T,G	--	--	
H-14	--	Peerless Pump Co.	--	--	--	--	--	T,E	--	--	
H-15	S. P. McSwain	Consolidated Oil & Gas Co.	1948	200	16	79.7	Sept. 20, 1950	T,E, 30	Irr	155	Pump: 8-in., 3-stage, set at 130 ft. Reported discharge, 1,000 gpm in January 1948.
H-16	C. L. Anderson	do	1948	200	16	a/78	Jan. 1948	T,E, 40	Irr	140	
H-17	do	do	--	--	--	--	--	T,E, 30	--	--	
H-18	P. A. Nafzger	Green Machinery Co.	1941	202	16	79.3	Sept. 14, 1950	T,E	Irr	160	Water level reported at 67 ft Apr. 18, 1941. See log.
H-19	E. A. Langford	A. W. Fish	1947	220	16	75.7	do	T,E, 40	Irr	140	
H-20	W. E. Crandall	Green Machinery Co.	1948	215	16	a/55	Mar. 1948	T,G	Irr	--	See log.
H-21	A. P. Melton	--	1944	202	--	73.2	Sept. 12, 1950	T,E, 50	Irr	160	

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
H-22	L. H. Green	L. P. Davis	1948	200	16	73.1	July 18, 1950	T, G, E, 30	Irr	160	Estimated discharge, 950 gpm July 24, 1950.
H-23	Walter Crandall	Green Machinery Co.	1949	200	16	65.8	Sept. 12, 1950	T, G	Irr	--	Water level 102.7 ft Apr. 3, 1952, after 5 days of pumping at 755 gpm.
H-24	A. D. Melton	Newman Motor Co.	1944	198	16	64.2	do	T, E, 50	Irr	160	
H-25	-- Crump	Green Machinery Co.	1948	212	16	a/53	Oct. 1948	T, G	Irr	--	
H-26	do	do	1946	200	16	a/62	Dec. 1946	T, G	--	--	
H-27	A. D. Melton	Newman Motor Co.	1944	196	16	a/48	1944	T, G	Irr	300	
H-28	do	Green Machinery Co.	1946	190	16	68.0	Sept. 12, 1950	T, E, 40	Irr	180	
H-29	E. Hays	Consolidated Oil & Gas Co.	1948	203	16	--	--	T, G	Irr	--	Pump: 8-in., 3-stage, set at 120 ft. See log.
H-30	A. S. Nafzger	L. B. West	1937	170	16, 14, 12	b/62.2	May 28, 1937	T, G, 85	Irr	--	Casing: 16-in. to 90 ft, 14-in. to 150 ft, 12-in. to 170 ft.
H-31	M. L. Armstrong	Green Machinery Co.	1946	224	16	66.1	Sept. 21, 1950	T, G	Irr	150	
H-32	Mrs. L. Kruggler	do	1950	202	16	70.6	do	T, G	Irr	156	
H-33	P. McFaddin	L. P. Davis & Co.	1949	220	16	66.3	Sept. 20, 1950	T, G, 125	Irr	160	
H-34	Roy McFaddin	L. B. West	1935	285	20, 18, 16	64.3 66.7	May 28, 1937 Sept. 20, 1950	T, G, 85	Irr	220	Pump: 10-in. set at 80 ft, lowered to 100 ft.
H-35	C. H. Rhettinger	--	--	--	--	67.3	Sept. 20, 1950	T, G	Irr	--	
H-36	W. B. Eby	--	1947	220	16	a/70	Sept. 1950	T, G	Irr	300	Drawdown reported 40 ft during pumping of 1,250 gpm in 1947.
*H-37	do	Ray Mullins	1937	202	16, 14	62.5	May 28, 1937	T, G	Irr	--	Water level 80.7 ft while pumping 968 gpm Aug. 26, 1947. Temp. 62°F.
H-38	P. A. Nafzger	C. Robertson	1947	202	16	a/67	Sept. 1950	T, G, 165	Irr	170	
H-39	do	Green Machinery Co.	1950	230	16	a/78	May 1950	T, G	Irr	--	
H-40	Mrs. E. Springer	--	1947	--	--	67.8	Sept. 12, 1950	T, G, 85	Irr	--	Pump: 10-in. set at 140 ft. See log.
H-41	A. D. Melton	Newman Motor Co.	1944	196	16	45.4	do	T, G	Irr	200	
H-42	D. H. Jerrell	L. P. Davis	1946	230	16	52.3	Sept. 14, 1950	T, G	Irr	150	
H-43	V. Y. Jefferies	Consolidated Oil & Gas Co.	1947	220	16	a/55	1947	T, G	Irr	180	

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
H-44	V. Y. Jefferies	Green Machinery Co.	1948	225	16	a/50	May 1948	T,G	Irr	140	
H-45	F. L. Thurman	do	--	202	16	69.1	Sept. 21, 1950	T,G, 100	Irr	150	Pump: 8-in. set at 120 ft.
H-46	do	do	1936	190	18	66.8	May 28, 1937	T,G	Irr	100	
H-47	L. L. George	L. B. West	1936	177	18, 10	65.6	do	T,G, 85	Irr	--	Casing: 18-in. to 100 ft, 10-in. to 177 ft.
H-48	I. V. Fent	Green Machinery Co.	1938	200	16	b/64.2	June 14, 1938	T,G	Irr	120	
H-49	E. E. Givens	--	1948	204	16	66.5	do	T,G, 85	Irr	80	Reported discharge, 1,000 gpm in March 1948.
H-50	J. H. Stamps	L. P. Davis	1946	200	16	a/65	1946	--	--	--	
H-51	do	-- Asher	1947	200	16	a/65	1947	T,G, 165	--	--	
H-52	J. Carpenter	Green Machinery Co.	1951	210	16	65.6	Sept. 21, 1950	T,G	Irr	--	
H-53	Mrs. -- Lambert	--	1949	--	--	a/75	Sept. 1950	T,G, 85	Irr	--	
H-54	E. E. Givens	Green Machinery Co.	1941	224	16	77.8	Sept. 21, 1950	T,G, 95	Irr	--	Pump: 10-in., 1-stage, set at 108 ft. Water level re- ported at 70 ft in April 1941. See log.
H-55	P. E. Roddy	L. P. Davis	1948	200	16	74.8	do	T,G, 165	Irr	210	
H-56	J. L. Hobbs	George Taylor	1946	199	16	a/60	Jan. 1950	T,G, 85	Irr	100	
H-57	H. M. Henderson	--	1947	200±	16	64.9	Sept. 21, 1950	T,G, 165	Irr	120	
H-58	N. B. Nicholson	L. P. Davis	1947	220	16	a/73	1950	T,G	Irr	240	Pump: 10-in., set at 166 ft.
H-59	L. T. Glenn	Green Machinery Co.	1950	246	16	68.8	Sept. 21, 1950	T,G	Irr	--	
H-60	J. P. Hukill	Montgomery Ward	1949	200	16	78.1	Sept. 7, 1950	T,G	Irr	100	
H-61	R. T. Frederickson	--	1934	190±	--	67.7	Sept. 8, 1950	T,G	Irr	135	Water level at 101.7 ft May 1, 1952, after 85 hours of pumping at 727 gpm. Temp. 63°F.
H-62	do	Green Machinery Co.	1948	224	16	a/68	Sept. 1950	T,G	Irr	150	Drilled to red beds.
*H-63	B. C. Kessie	--	1946	210	16	a/65	1946	T,G	Irr	160	Water level at 99.7 ft Apr. 3, 1952, after 21 days of pumping at 795 gpm.
H-64	Mrs. M. L. Whitfield	Green Machinery Co.	1950	200	16	a/61	May 1950	T,G	Irr	75	

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
H-65	H. G. Egenbacher	Green Machinery Co.	1948	200	16	--	--	T,G	Irr	110	Pump: 10-in., 1-stage, set at 140 ft.
H-66	L. H. Nannas	S. Thurkill	1946	200	16	--	--	T,G	Irr	130	Water sand reported from 120 to 196 ft. Red beds at 196 ft.
H-67	G. A. Branton	--	1939	220	13	--	--	T,G	Irr	60	See log.
H-68	do	--	1949	216	16	--	--	T,G	Irr	120	
H-69	H. R. Monroe	A. W. Fish	1947	200	16	--	--	T,G	Irr	80	Estimated discharge, 750 gpm Sept. 7, 1950.
H-70	do	Green Machinery Co.	1950	216	16	82.6	Sept. 7, 1950	T,G	Irr	80	Water level at 111.6 ft Apr. 3, 1952, after 78 hours of pumping at 917 gpm.
H-71	W. P. Neinast	J. D. Kirkland	1946	218	16	--	--	T,G	Irr	150	
H-72	C. M. Oasthus	Consolidated Oil & Gas Co.	1946	195	18	--	--	T,G	Irr	149	
H-73	W. O. Hendricks	S. Thurkill	1946	198	16	68.5	Sept. 11, 1950	T,G	Irr	155	Measured discharge, 660 gpm Apr. 3, 1952.
H-74	Bill Sibley	--	1945	--	--	71.2	Oct. 23, 1950	T,G	Irr	--	
H-75	A. L. Mixon	J. H. Barnett	1948	198	18	--	--	--	Irr	180	Red beds at 193 ft.
H-76	J. Fae Moore	B. D. Garland	1949	161	16	66.0	Sept. 11, 1950	T,G	Irr	100	
H-77	Mrs. V. Huff	-- Forgason	1937	150	15	--	--	T,-	Irr	--	
H-78	W. V. Douglas	L. P. Davis	1945	204	16	--	--	T,G	Irr	160	
H-79	Branton & Clark	F. Foust	1940	208	14½	75.2 81.4	Sept. 9, 1942 Sept. 8, 1950	T,G	Irr	160	Casing perforated from 60 to 142 ft. See log.
H-80	G. H. Kizer	Green Machinery Co.	1942	275	16	--	--	T,G	Irr	156	
H-81	B. Sageser	H. O. Bogle	1948	250	16	71.8	Sept. 11, 1950	T,G	Irr	130	
H-82	G. T. Corry	Bradford Supply Co.	1944	200	14	--	--	T,G	Irr	165	
H-83	do	--	1937	--	--	--	--	T,G	Irr	150	
H-84	do	Davis & Sons	1949	260	16	--	--	T,G	Irr	150	Casing: 16-in. to 200 ft. Pump: 8-in. set at 150 ft.
H-85	do	do	1949	260	16	--	--	T,G	Irr	150	
H-86	G. H. Kizer	--	1948	160	--	81.9	Sept. 7, 1950	T,G	Irr	130	
H-87	Branton & Clark	Green Machinery Co.	1948	--	16	--	--	None	N	--	
H-88	do	R. Bishop	1950	307	16	69.0	Sept. 8, 1950	T,G	Irr	160	Casing: 16-in. to 200 ft.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
H-89	L. A. Smith	D. L. Handley	1946	200	16	62.7	Sept. 11, 1950	T, G	Irr	140	
H-90	Jess Roundtree	Consolidated Oil & Gas Co.	--	200	16	90.0	do	T, G	Irr	--	
H-91	E. L. Langsford	W. R. Quinn	1944	228	--	89.3	do	T, G	Irr	120	
H-92	do	do	1947	200	--	--	--	T, G	Irr	120	
H-93	J. A. Talburt	Kirkland & Ware	1949	204	16	--	--	T, G, 145	Irr	200	Drilled to red beds.
H-94	do	Montgomery-Ward	1948	189	16	93.8	Sept. 11, 1950	T, G	Irr	200	Do.
H-95	J. W. Johnson	Kirkland & Ware	1949	170	--	--	--	T, G	Irr	140	
H-96	M. V. Kesity	Henry P. Price	1936	114	--	74.6	Apr. 13, 1937	T, G	Irr	--	
H-97	W. Kesity	--	--	--	--	--	--	--	--	--	
H-98	B. Naval	Garland Motor Co.	1950	164	14	--	--	T, G	Irr	60	Pump: 8-in. set at 120 ft.
H-99	T. S. Tyler	C. V. Harmon	1948	141	18	a/20	Sept. 1950	T, G, 100	Irr	80	Well in draw. Pump: 8-in. set at 50 ft.
H-100	H. V. Lynch	Green Machinery Co.	1939	--	--	--	--	T, G	Irr	100	
H-101	C. P. Montgomery	do	1947	208	18	--	--	T, G	Irr	150	Drilled to red beds.
H-102	Elwood Estate	L. B. West	1933	80	--	56.3	June 25, 1952	C, W	S	--	In sandhills.
J-1	W. A. Moncrief	--	1950	175	16	--	--	None	N	--	Insufficient water for irrigation; well abandoned.
J-2	J. W. McCaghren	Consolidated Oil & Gas Co.	1950	247	16	a/100	June 1950	None	N	--	Reported discharge, 150 gpm by driller in June 1950. Well abandoned. See log.
J-3	T. Fife	do	1950	138	16	--	--	None	N	--	Reported discharge, 150 to 200 gpm. Well abandoned.
J-4	Q. McCaghren	do	1950	190	16	--	--	None	N	--	Casing: 16-in. to 170 ft. Measured discharge, 175 gpm in June 1950. Well abandoned. See log.
J-5	J. N. Janes Estate	R. D. Hawthorn	1950	155	16	--	--	None	N	--	Insufficient water for irrigation; well abandoned. See log.
J-6	J. Fisher	Consolidated Oil & Gas Co.	1950	172	16	64.0	Sept. 15, 1950	T, G	Irr	160	Casing: 16-in. to 156 ft. Pump set at 130 ft. See log.
J-7	do	do	1950	130	16	--	--	None	N	--	Measured discharge, 150 gpm June 23, 1950; well abandoned. See log.
J-8	L. R. Stephens	-- Jenkins	1950	144	16	66.2	Oct. 26, 1950	T, G	Irr	80	Estimated discharge, 800 gpm Sept. 18, 1950. Pump set at 132 ft.



Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
J-9	Tom V. Woods	S. Ware	--	175±	--	--	--	None	N	--	Abandoned.
J-10	do	--	1946	600±	--	--	--	None	N	--	Reported to have pumped mineralized water. Abandoned.
J-11	do	J. L. Lusby	1950	142	16	Sept. 15, 1950	69.2	T, G	Irr	160	Pump set at 130 ft. Reported blue clay at 141 ft.
J-12	A. A. Royal	S. Ware	1946	230	16	do	76.4	T, G, 100	Irr	115	Casing: 16-in. to 133 ft. Pump set at 120 ft. Reported discharge, 900 gpm. Blue clay at 180 ft; red beds at 205 ft.
J-13	William Lenderson	J. Miles	1950	170	--	--	--	None	N	--	Insufficient water for irrigation; well abandoned. See log.
J-14	Lena Beck	do	1950	195	--	--	--	None	N	--	Uncased. Abandoned. See log.
J-15	do	S. Ware	1950	190	--	--	--	None	N	--	Insufficient water for irrigation; well abandoned.
J-16	Bob Beck	do	1950	--	--	--	--	None	N	--	Test well; insufficient water for irrigation; well abandoned.
J-17	do	--	1950	--	--	--	--	None	N	--	Do.
J-18	J. R. Reed	J. M. White	1937	200	--	Mar. 12, 1937	70.9	None	N	--	Insufficient water for irrigation; well abandoned. See log.
J-19	Anton Demel	--	1949	150	4	--	--	None	N	--	Test well; reported dry; abandoned.
J-20	S. A. Williams	Charles Harmon	1948	260	16	June 19, 1952	74.7	None	N	--	Reported discharge, 200 to 300 gpm. Well abandoned.
*J-21	W. O. Holman	--	1925	62	6	Mar. 11, 1937 Apr. 18, 1952	61.7 50.2	C, W	D, S	--	First water stratum cased off and water reported from basal Cretaceous sand.
*J-22	L. Pryor	--	--	130	5	Apr. 18, 1952	77.3	C, W	D, S	--	Casing raised and water reported less mineralized. Well unused since 1951.
*J-23	Case Bros.	Z. Nordyke	1928	248	4½	Feb. 27, 1937 June 19, 1952	233.0 184.0	None	N	--	Reported good supply.
*J-24	S. A. Williams	--	1929	101	--	Mar. 12, 1937 June 19, 1952	77.4 73.9	C, W	D, S	--	Blue clay at 171 ft. Replaced J-23. Temp. 67°F.
*J-25	H. M. Black	--	1952	172	5	Apr. 1952	a/151	C, E	D	--	

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
K-1	E. W. Baccus	Bill Morgan	1950	122	16	70.3	Sept. 14, 1950	None	N	--	Estimated discharge, 200 gpm in June 1950. Owner plans to install 4-in. pump. Yellow clay at 100 ft.
K-2	do	do	1950	115	--	--	--	None	N	--	Uncased. Insufficient water for irrigation; well abandoned.
K-3	Henry Fisher	Consolidated Oil & Gas Co	1950	141	18	74.7	Aug. 14, 1950	T,G	Irr	--	Pump: 8-in., set at 120 ft. Measured discharge, 1,005 gpm June 16, 1950. See log.
K-4	Carl Fisher	do	1950	151	16	--	--	None	N	--	Measured discharge, 157 gpm June 18, 1950. Insufficient water for irrigation. Well abandoned.
K-5	E. W. Baccus	W. Ware	1948	175	--	--	--	None	N	--	Abandoned.
K-6	J. H. Brantley	do	1947	190	16	81.4	Sept. 15, 1950	T,G	Irr	160	Reported discharge, 900 gpm in October 1947. Drilled to red beds.
K-7	do	J. D. Kirkland	1950	190 <sup>±</sup>	16	77.2	do	T,G	Irr	160	Pump set at 160 ft.
K-8	W. P. Davis	Bill Morgan	1950	205	16	--	--	T,G	Irr	150	Pump set at 130 ft. Drilled to red beds.
K-9	--	Shell Oil Co.	1949	160	4	a/52	Dec. 1949	None	N	--	Seismograph shothole.
K-10	--	do	1949	135	4	--	--	None	N	--	Seismograph shothole. See log.
K-11	M. Brantley	Bill Morgan	1949	200	--	58.0	Sept. 13, 1950	None	N	--	Altitude of land surface, 3,645.5 ft. Well abandoned. See log.
K-12	do	do	1949	200	18	64.9	do	None	N	--	Reported discharge, 150 gpm; well abandoned.
K-13	do	-- Altman	1949	210	16	--	--	T,G	Irr	4	Altitude of land surface, 3,560.6 ft. Reported discharge, 150 gpm. Pump set at 160 ft. See log.
K-14	E. L. Yarbrough	C. Barnett	1947	165	16	72.1	Sept. 15, 1950	T,G	Irr	50	See log.
K-15	J. P. Brantley	J. H. Ware	1950	148	16	69.5	Sept. 14, 1950	None	N	--	Altitude of land surface, 3,646.2 ft. Insufficient water for irrigation. Yellow clay at 100 ft.
K-16	do	S. Ballard	1947	200	16	--	--	None	N	--	Altitude of land surface, 3,638.9 ft. Insufficient water for irrigation; well abandoned.
K-17	do	do	1947	203	16	--	--	None	N	--	Insufficient water for irrigation. Yellow clay at 120 ft. Well abandoned.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
K-18	H. Brantley	Green Machinery Co.	1941	215	16	80.3	Mar. 20, 1941	None	N	--	Altitude of land surface, 3,656.7 ft. Well abandoned. See log.
K-19	W. Brantley	J. D. Kirkland	1949	220	16	81.0	Sept. 15, 1950	T, G	Irr	70	Estimated discharge, 500 gpm. Pump set at 150 ft.
K-20	H. Brantley	A. Bishop	1947	206	16	75.2	do	T, G	Irr	150	Reported discharge, 850 gpm Sept. 15, 1950. See log.
K-21	J. M. Brantley	J. D. Kirkland	1949	187	16	79.0	do	T, G	Irr	165	Reported discharge, 900 gpm in February 1949.
K-22	E. L. Schanajsa	C. Harmon	1949	115	16	66.2	Sept. 13, 1950	None	N	--	Measured discharge, 153 gpm in June 1949; well abandoned.
K-23	do	Lusby Bros.	1950	118	16	66.9	do	T, G	Irr	--	Estimated discharge, 200 gpm. Pump: 6-in. set at 110 ft.
K-24	do	C. Harmon	1948	221	16	--	--	None	N	--	Reported discharge, 150 gpm by driller. Well abandoned. See log.
K-25	F. G. Rowell	J. D. Kirkland	1950	220	16	81.4	Sept. 15, 1950	T, G	Irr	120	Casing: 16-in. to 190 ft.
K-26	B. O. McDaniel	C. Harmon	1949	212	16	70.3	Aug. 10, 1950	T, G	Irr	70	Abandoned.
K-27	do	W. Ware	1946	198	16	75.2	do	T, G	Irr	170	
K-28	do	J. M. Whitfield	1936	135	16	b/75.2	do	None	N	--	
K-29	do	J. D. Kirkland	1948	214	16	--	--	T, G	Irr	191	
K-30	G. D. Lair	F. Foust	1946	220	16	--	--	T, G, 100	Irr	140	Pump set at 140 ft. Red beds at 218 ft.
K-31	do	--	1946	90±	14	81.0	Aug. 10, 1950	T, G, 85	Irr	--	Pump: 6-in., set at 88 ft. Reported discharge, 600 gpm.
K-32	L. Y. Nix	--	--	--	--	--	--	None	N	--	Insufficient water for irrigation; well abandoned.
K-33	A. Neuenschwander	C. Harmon	1948	210	16	--	--	T, G	Irr	150	Pump: 10-in., set at 130 ft. Drilled to red beds.
K-34	do	do	1948	205	16	--	--	T, G, 165	Irr	150	Uses underground concrete pipe.
K-35	A. Schroeder	C. Barnett	1946	215	16	s/72	July, 1946	T, G	Irr	140	Red beds at 213 ft.
K-36	J. S. Harmon	C. Harmon	1947	213	14	82.5	Aug. 10, 1950	T, G	Irr	170	Water reported in gravel from 186 to 213 ft. Red beds at 213 ft.
K-37	B. O. McDaniel	--	1939	210	16	--	--	T, G	Irr	--	
K-38	C. M. Coffey	C. Harmon	1950	220	16	71.9	Aug. 10, 1950	T, G	Irr	77	Reported discharge, 1,000 gpm in March 1950. Drilled to red beds.
K-39	H. Halsell	do	1948	220	16	--	--	T, G	Irr	150	
K-40	H. Grant	do	1950	215	16	70.2	Aug. 10, 1950	T, G	Irr	96	Pump set at 130 ft. Red beds at 208 ft.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
K-41	C. A. Thomas	J. D. Kirkland	1950	218	16	73.8	Aug. 10, 1950	T, G	Irr	100	Red beds at 215 ft.
K-42	W. A. Thompson	do	1948	210	16	70.1	Sept. 22, 1950	T, G	Irr	70	Red beds at 208 ft.
K-43	F. Lehman	C. Harmon	1949	192	16	59.5	Mar. 24, 1949	T, G	Irr	75	Reported discharge, 1,000 gpm in February 1949.
K-44	L. Nichols	B. Fish	1949	198	16	--	--	T, G	Irr	94	Casing perforated from 60 to 198 ft. Pump set at 110 ft.
K-45	F. Lehman	C. Harmon	1948	190	16	67.5	Aug. 11, 1950	T, G	Irr	75	Drilled to red beds.
K-46	A. Neuenschwander	do	1950	190	16	65.0	do	None	N	--	To be used for irrigation.
K-47	do	do	1949	190	16	78.4	do	T, G, 165	Irr	65	Pump set at 120 ft.
K-48	J. H. Hart	J. D. Kirkland	1949	210	16	72.5	do	T, G	Irr	70	Drilled to red beds.
K-49	R. Rhoten	-- Irving	1948	178	16	83.8	Sept. 19, 1950	T, G	Irr	150	Pump: 10-in., set at 152 ft. Reported discharge, 1,500 gpm in January 1948.
K-50	W. D. Storey	Barnett & Irving	1949	140	16	--	--	T, G	Irr	75	
K-51	do	do	1948	150	16	--	--	T, G	Irr	75	
K-52	do	F. Foust,	1949	113	16	--	--	T, G, 100	Irr	--	Estimated discharge, 200 gpm. Irrigates orchard.
K-53	H. J. Sisson	Bill Morgan	1949	170±	16	--	--	None	N	--	Insufficient water for irrigation; well abandoned.
K-54	Troy Moss	--	1946	185	16	--	--	T, G, 145	Irr	150	Pump set at 130 ft.
K-55	Mrs. E. E. Elliott	C. Barnett	1949	186	16	--	--	T, G	Irr	70	Measured discharge, 572 gpm Aug. 11, 1950.
K-56	Mrs. N. T. Dalton	--	1949	107	16	--	--	T, E	Irr	50	Measured discharge, 151 gpm Apr. 3, 1952. Pump: 5-in. set at 100 ft.
K-57	do	-- Folley	1949	107	16	72.6	Aug. 11, 1950	None	N	--	Uncased. To be used for irrigation.
K-58	do	do	1949	107	16	--	--	T, E	Irr	76	Measured discharge, 136 gpm Apr. 3, 1952.
K-59	A. D. Kelly	A. D. Hays	1926	175	15	68.0	June 25, 1937	T, G	Irr	--	Original depth 110 ft; deepened to 175 ft in March 1937; but yield did not increase. Sand and gravel reported below blue clay. Well used to supply swimming pool.
K-60	J. Macha	J. Miller	1948	140	16	69.6	Feb. 9, 1951	T, G, 125	Irr	40	Uncased. Reported discharge, 500 gpm in 1948.
K-61	W. W. Biskelbach	F. Foust	1948	128	16	--	--	T, G	Irr	--	Uncased.

Table 8.- Records of wells in Lamb County.--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
K-62	G. R. Hill	J. Miller	1947	129	16	73.0	Aug. 11, 1950	T, G	Irr	88	Water level at 130.7 ft Apr. 3, 1952 after 18 hours at 610 Rpm.
K-63	do	do	1950	143	16	--	--	T, G, 90	Irr	--	Uncased. See log.
K-64	-- Edwards	--	--	124	15	84.8	June 25, 1937	None	N	--	Uncased. Yellow clay at 124 ft. Well abandoned.
K-65	Les Barker	Les Barker	1936	130	14	84.7	Aug. 17, 1937	None	Irr	--	Casing: 14-in. to 20 ft. Pump: 12-in., 4-stage, set at 102 ft.
K-66	M. T. McKinnon	-- Nordyke	1950	124	16	81.8	Aug. 11, 1950	T, G, 100	Irr	65	Uncased. Estimated discharge, 450 gpm.
K-67	S. L. Sibley	H. Barnett	1948	600	--	--	--	None	N	--	Inadequate water for irrigation.
K-68	J. Evans	--	1949	200 <sup>+</sup>	--	--	--	None	N	--	Do.
K-69	do	--	1950	200	16	--	--	None	N	--	Do.
K-70	R. T. Badger	Shell Oil Co.	1950	105	4	--	--	None	N	--	Altitude of land surface, 3,632 ft. Seismograph shot-hole. See log.
K-71	-- Bussamus	--	--	71	5	66.7	Oct. 24, 1951	C, W	D	--	Altitude of land surface, 3,608.2 ft. Reported discharge, 80 gallons a day.
K-72	-- Hufstedler	--	1950	130 <sup>±</sup>	16	--	--	None	N	--	Inadequate water for irrigation; well abandoned.
K-73	J. D. Haegler	--	1950	127	16	--	--	None	N	--	Do.
K-74	A. H. Schulz	Geo. Taylor	1948	228	16	a/100	1948	None	N	--	Discharge reported 150 gpm by driller; well abandoned.
K-75	R. Robertson	F. Foust	1946	106	16	--	--	None	N	--	Inadequate water for irrigation; well abandoned.
K-76	Weeks-Bagwell Gin Co.	--	--	202	--	158.5	Mar. 22, 1937	None	N	--	Uncased. Abandoned.
K-77	do	--	--	179	--	158.3	do	None	N	--	Do.
*K-78	C. B. Jaques	--	1925	80	5	45.5	Oct. 18, 1951	C, E, 1	D	--	Altitude of land surface, 3,587.8 ft. Water reported highly mineralized. Blue clay at 62 ft.
K-79	V. K. McCaskill	Shell Oil Co.	1949	160	4	--	--	None	N	--	Altitude of land surface, 3,555 ft. Seismograph shot-hole. See log.
K-80	O. C. Zuber	F. Foust	1943	61	5	42.2	Oct. 19, 1951	C, W	D, S	--	Altitude of land surface, 3,521.8 ft; north slope of Illusion Lake.
K-81	Yellowhouse Land Co.	L. Taliaferro	1927	4,240	6-5/8	--	--	None	N	--	Altitude of land surface, 3,435 ft. Oil test. See Log.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
*K-82	A. J. Ogerly	--	1921	110	5	8/65	1951	C, W	D, S	--	Water reported to have gypsum taste.
*K-83	W. B. Seymore	--	1928	50	5	24.8	Apr. 18, 1952	C, W	D, S	--	Water reported to have soda taste. Red beds at 108 ft.
*K-84	J. Foltyn	--	1926	100	5	20.0	do	C, W	S	--	Water reported too highly mineralized for drinking; water from well K-85 mixed for domestic use.
*K-85	do	--	1943	60	5	--	--	C, E	D	--	Water reported less mineralized than K-84.
*K-86	S. B. Pinkerton	--	--	92	4 1/2	71.6 71.5 68.8	Mar. 22, 1937 Oct. 6, 1937 Feb. 9, 1951	C, W	D, S	--	
*K-87	Robert Smith	--	--	--	--	--	--	--	S	--	Water sample from Bull Lake.
*K-88	Paul Lewis	--	1943	78	3	54.5	June 19, 1952	C, W	D	--	Water reported mineralized.
*K-89	D. D. Trotter	--	1938	54	5	43.6	June 5, 1942	C, W	D, S	--	Water reported mineralized. Well drilled to blue clay.
*K-90	Don Brewster	--	--	100	4	77.3 74.4	Mar. 22, 1937 June 19, 1952	C, W	D, S	--	
*K-91	Mrs. H. A. Gilliam	--	--	102	4	72.2	Mar. 22, 1937	C, W	D, S	--	
K-92	--	Stanolind Oil & Gas Co.	--	205	--	--	--	None	N	--	Altitude of land surface, 3,523 ft. Seismograph shot hole. See log.
K-93	Geo. L. White	do	--	128	--	--	--	None	N	--	Altitude of land surface, 3,443 ft. Seismograph shot hole. See log.
K-94	--	do	--	86	--	--	--	None	N	--	Altitude of land surface, 3,423 ft. Seismograph shot hole. See log.
K-95	Geo. L. White	do	--	86	--	--	--	None	N	--	Altitude of land surface, 3,413 ft. Seismograph shot hole. See log.
L-1	C. A. Brock	-- Smith	1945	125	14	--	--	T, G	Irr	150	Pump: 8-in. set at 110 ft. Drilled to red beds.
L-2	Martin Parmer	-- Ballard	1946	200	16	--	--	T, G	Irr	120	
L-3	S. J. Perkins	Morgan-Kirkland	1949	193	16	71.1	Aug. 11, 1950	T, G	Irr	135	
L-4	W. Townson	--	1950	180	16	--	--	T, G	Irr	40	
L-5	H. C. Richardson	Green Machinery Co.	1950	189	16	77.0	Aug. 15, 1950	T, G	Irr	100	
L-6	C. Mesecke	A. W. Fish	1945	210	16	71.1	do	T, G	Irr	75	See log.
L-7	Millard Phillips	S. Ballard	1948	215	16	--	--	T, G, 150	Irr	200	Do.



Table 8:- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
*L-8	Mrs. W. Alexander	D. H. Sneed	1950	198	16	--	--	T,G	Irr	--	Water reported to have gyp taste.
L-9	do	do	1948	200	16	--	--	None	N	--	Do.
L-10	W. F. Martin	J. H. Barnett	1950	188	16	69.4	Aug. 15, 1950	T,G	Irr	100	
*L-11	do	do	1948	188	16	79.3	do	T,G	Irr	120	
L-12	Stanley Doss	Consolidated Oil & Gas Co.	1948	205	16	--	--	T,G	Irr	75	Reported discharge, 750 gpm when drilled.
L-13	Hamp McCarry	--	1948	200	16	--	--	T,G	Irr	150	Water reported to have gyp taste. Owner hauls drinking water.
*L-14	E. N. Pickens	J. H. Barnett	1948	200	16	82.7	Aug. 25, 1950	T,G	Irr	110	Water reported to have gyp taste.
*L-15	Zearl T. Young	L. P. Davis	1938	208	16	81.5	do	T,G	Irr	175	Water reported to have gyp taste. Estimated discharge, 900 gpm Apr. 3, 1952.
L-16	W. P. Kirk	C. Barnett	1950	208	16	--	--	T,G	Irr	50	Water reported to have gyp taste.
L-17	Earl Johnson	--	--	190	16	--	--	T,G	Irr	--	
L-18	J. J. Harlin	Barnett & Irving	1948	190	16	89.5	Aug. 30, 1950	T,G	Irr	100	Drilled to red beds.
L-19	do	do	1945	205	16	95.9	do	T,G	Irr	200	Do.
L-20	do	do	1948	193	16	--	--	T,G	Irr	175	Do.
L-21	do	do	1947	206	16	--	--	T,G	Irr	200	
L-22	Alvin Bagwell	-- Barnett	1946	234	16	--	--	T,G	Irr	75	Casing: 16-in. to 182 ft. Cemented off casing sand.
*L-23	Mrs. C. Willis	Johnson Pump Co.	1948	216	16	86.9	Aug. 30, 1950	T,G	Irr	90	Water level at 131.9 ft Apr. 3, 1952, after 25 hours of pumping at 755 gpm. Temp. 64°F.
L-24	Alvin Bagwell	-- Barnett	1949	206	16	--	--	T,G	Irr	115	
L-25	D. G. Green Estate	--	1938	256	16	--	--	T,G	Irr	160	Pump: 8-in. set at 170 ft.
L-26	Mrs. K. J. Chaneg	Sears & Roebuck	1948	200	16	--	--	T,G	Irr	125	
L-27	Walt Clifton	-- Oliver	1949	200	16	--	--	T,G	Irr	80	
L-28	T. F. Fulbright	Green Machinery Co.	1940	190	16	--	--	T,G	Irr	80	Pump: 8-in., 2-stage, set at 132 ft. See log.
L-29	Mrs. L. McCain	--	1937	184	14	100.0	Aug. 30, 1950	T,G	Irr	170	Pump set at 118 ft. Cannot lower pump; hole reported crooked.
L-30	Dan Heard	-- Irving	1947	208	16	107.6	Oct. 23, 1950	T,G	Irr	175	

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
L-31	Jess Watts	H. O. Bogel	1948	210	16	106.7	Oct. 23, 1950	T,G	Irr	55	Pump: 8-in., 3-stage, set at 150 ft.
L-32	D. Myers	Green Machinery Co.	1950	200	16	109.9	do	T,G	Irr	--	
L-33	B. A. Ball	--	--	--	--	--	--	--	--	--	
L-34	J. A. Henderson	B. D. Garland	1948	213	16	103.8	Sept. 1, 1950	T,G	Irr	135	
L-35	T. E. Chapman	do	1948	205	16	--	--	T,G	Irr	160	
L-36	do	J. D. Kirkland & L. Ware	1947	205	16	--	--	T,G	Irr	160	
L-37	L. Farr	--	--	--	--	--	--	T,G	Irr	--	
L-38	L. E. Myers	Green Machinery Co.	1949	252	16	78.0	Sept. 11, 1950	T,G	Irr	85	Drilled to red beds.
L-39	H. O. Sewell	Fred Foust	1944	211	14	--	--	T,G	Irr	120	
L-40	do	Sam Ballard	1947	260	18	--	--	T,G	Irr	120	
L-41	Dan Heard	T. W. Price	1940	210	14½	a/85	--	T,G	Irr	--	Casing perforated from 80 to 210 ft. Pump: 8-in., 2-stage, set at 130 ft. See log.
L-42	Deck Herd	M. A. Patton	1940	210	15	a/80	--	T,G	Irr	150	See log.
L-43	O. D. Brown Estate	Bill Morgan	1950	223	16	--	--	T,G	Irr	80	Water level at 129 ft while pumping an estimated 900 gpm Sept. 7, 1950.
L-44	do	H. O. Bogel	1945	234	16	--	--	T,G	Irr	80	
L-45	Mrs. J. H. Wilmore	--	1946	200	16	--	--	T,G	Irr	160	
L-46	O. D. Brown Estate	Bill Morgan	1949	255	16	--	--	T,G	Irr	125	Casing: 16-in. to 215 ft. Pump: 8-in. set at 165 ft.
L-47	C. J. Mills	Stapleton Bros.	1949	224	16	--	--	T,G	Irr	100	
L-48	do	Buck Price	1940	225	16	--	--	T,G	Irr	135	See log.
L-49	O. D. Brown Estate	R. Bishop	1946	198	16	--	--	T,G	Irr	100	
L-50	do	L. Ware	1948	219	18	a/103	Sept. 1950	T,G	Irr	80	Water level at 135 ft while pumping an estimated 900 gpm Sept. 1, 1950
L-51	do	do	1947	220	16	--	--	T,G	Irr	115	
L-52	W. C. Singer	Green Machinery Co.	1947	210	16	a/100	Oct. 1950	T,G	Irr	100	
L-53	E. F. Durham	J. D. Kirkland	1950	260	16	--	--	T,G	Irr	100	Red beds at 255 ft.
L-54	J. A. Inklebarger	--	1945	228	16	--	--	T,G	Irr	150	Estimated discharge, 700 gpm Sept. 1, 1950.

Table 8.-- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
L-55	A. B. Brown	Bishop Bros.	1947	218	16	--	--	T, G	Irr	80	Water level at 165 ft while pumping an estimated 850 gpm Sept. 7, 1950. Casing: 16-in. to 212 ft.
L-56	do	do	1947	245	16	--	--	T, G	Irr	75	
L-57	do	Bill Morgan	1950	255	16	--	--	T, G	Irr	80	
L-58	do	L. Ware	1947	221	16	104.5	Sept. 1, 1950	T, G	Irr	100	
L-59	A. D. Short	-- Irving	1946	209	18	111.1	Sept. 21, 1950	T, G	Irr	120	Temp. 64°F.
L-60	H. O. Sewell	Green Machinery Co.	1949	218	16	a/100	Apr. 1937	T, G	Irr	80	
L-61	J. H. Ramage	A. B. Hayes	1936	202	16	a/100	--	T, G, 154	Irr	100	
L-62	do	Sam Ballard	1948	220	14	98.0	Sept. 7, 1950	T, G	Irr	80	
L-63	W. M. McCurry	C. Harmon	1947	211	16	--	--	T, G	Irr	130	
L-64	Mrs. M. D. Hamilton	Sam Ballard	1948	275	16, 14	107.1	Sept. 7, 1950	T, G	Irr	90	Casing: 16-in. to 200 ft, 14-in. to 275 ft. Drilled to red beds.
L-65	R. A. Leonard	R. Bishop	1950	225	16	--	--	T, G	Irr	120	
L-66	C. E. Strawn	Green Machinery Co.	1950	214	16	--	--	T, G	Irr	100	
L-67	L. Chamberlin	--	1947	247	16	140+	Oct. 24, 1950	T, G	Irr	168	On top of hill.
L-68	J. W. Coffey	R. Bishop	1949	227	16	124.0	Sept. 22, 1950	T, G	Irr	120	
L-69	L. J. Swanson	J. H. Barnett	1950	210	16	--	--	T, G	Irr	125	Pump: 8-in. set at 160 ft.
L-70	do	F. Foust	1945	208	14	--	--	--	--	--	Not used in 1950. See log.
L-71	Jay Phillips	Sam Ballard	1947	215	18	99.8	Sept. 1, 1950	T, G	Irr	120	Red beds at 210 ft.
L-72	Roy B. Dodson	R. Bishop	1949	228	16	--	--	T, G	Irr	140	
L-73	Ben Luttmer	do	--	232	18, 16, 14	--	--	T, G	Irr	--	
L-74	do	do	--	209	16	--	--	None	N	--	Reported weak well, abandoned.
L-75	M. D. Hall	--	--	--	--	--	--	--	--	--	
L-76	D. H. Allen	F. Foust	1948	229	16, 10	137.4	Sept. 1, 1950	T, G	Irr	165	Original depth 204 ft. Deepened to 229 ft in 1949; red beds at 229 ft.
L-77	G. M. Vann	R. Bishop	1950	234	16	139.9	July 26, 1950	T, G, 145	Irr	115	
L-78	J. E. Owen	do	1946	218	16	--	--	T, G	Irr	80	Estimated discharge, 750 gpm July 26, 1950.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
L-79	J. E. Owen	R. Bishop	1950	232	16	--	--	T, G	Irr	75	Pump: 8-in. set at 185 ft.
L-80	A. M. Martin	Green Machinery Co.	1949	172	16	--	--	T, G	Irr	160	
L-81	R. F. Brock	L. Ware	1950	209	18	--	--	T, G	Irr	150	Uncased.
L-82	Hill Rogers	Fred Foust	1949	180	16	--	--	T, G	Irr	85	
L-83	Leonard McMuese	Sam Ballard	1947	160	16	--	--	T, G	Irr	170	
L-84	G. G. Walden	-- Huggens	1945	158	16	62.5	July 25, 1950	T, G, 100	Irr	88.5	Casing set on blue clay.
L-85	-- Haliburton	--	1949	160	16	--	--	T, G	Irr	88.5	
L-86	R. L. Kerk	F. Foust	1949	174	16	89.6	July 25, 1950	T, G	Irr	80	
L-87	M. J. Mills	do	1949	196	14	--	--	T, A, C	Irr	45	Reported discharge, 600 gpm in February 1949.
L-88	J. F. Tomlanson	Green Machinery Co.	1948	208	16	80.0	July 25, 1950	T, G, 100	Irr	70	Drilled to blue shale.
L-89	W. H. Hill	F. Foust	1949	194	16	--	--	T, G	Irr	100	
L-90	A. Touchton	do	1936	200	15, 14, 10	73.8	Aug. 25, 1950	T, G	Irr	100	
L-91	J. W. Bitner	J. Hodges	1946	152	16	76.0	July 31, 1950	T, G	Irr	80	
L-92	Ed Fowler	--	--	--	--	--	--	--	--	--	
L-93	L. M. Bitner	Barnett & Irving	1946	202	16	--	--	T, G	Irr	100	
L-94	U. E. Kelly	A. W. Fish	1945	166	16	77.9	July 31, 1950	T, G	Irr	125	
L-95	Ed Fowler	--	--	--	--	--	--	--	--	--	
L-96	L. L. Harlan	-- Huggens	1945	165	16	61.1	July 25, 1950	T, G, 100	Irr	145	Pump: 10-in., 1-stage, set at 100 ft.
L-97	F. W. Lichte	Garland Motor Co.	1948	150	16	72.7	July 31, 1950	T, G	Irr	130	
L-98	E. J. Harkins	L. W. Ware	1942	150	12½	65.0	Oct. 24, 1950	T, G	Irr	--	Casing: 12½-in. to 135 ft.
L-99	L. B. McClain	--	1945	--	--	--	--	T, G	Irr	90	
L-100	W. H. Roberts	A. B. Hays	1936	140	15	--	--	T, G, 85	Irr	--	
L-101	A. H. McFarland	L. F. Davis	1946	170	16	a/72	May 1950	T, G	Irr	100	Pump: 6-in. set at 120 ft.
L-102	W. P. Harlin	Fred Foust	1948	--	--	--	--	G	Irr	75	
L-103	E. C. Hill	L. P. Davis	1945	150	16	--	--	T, G	Irr	80	
L-104	A. H. McFarland	-- Kirkland	1947	180	16	a/62	May 1950	T, G	Irr	200	

Table 8:- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
L-105	City of Littlefield	Barnett & Irving	1948	210	16	--	--	T, E, 100	P, S	--	Casing: 16-in. to 178 ft.
L-106	R. E. Blessing	F. Foust	1945	186	16	--	--	T, G, 100	Irr	134	
L-107	C. R. Spann	Green Machinery Co.	1948	150	16	57.4	July 31, 1950	T, G	Irr	150	
L-108	do	do	1947	150	16	90.8	do	T, G	Irr	150	
L-109	Mrs. M. M. Dubose	E. E. Huggens	1945	205	16, 14	--	--	T, G	Irr	160	Casing: 16-in. to 190 ft, 14-in. to 205 ft. Reported 65 ft of water-bearing sand.
L-110	F. E. Lichte	Fred Foust	1943	170	16	77.0	July 31, 1950	T, G	Irr	100	
L-111	do	--	1946	160	16	80.9	do	T, G	Irr	100	
L-112	T. Arms	Green Machinery Co.	--	--	--	61.8 73.9	Apr. 28, 1937 Oct. 12, 1951	None	N	--	Unable to lower pump, abandoned in 1951.
L-113	do	B. Barnett	1950	190	16	71.4	July 31, 1950	T, E	Irr	100	
L-114	do	--	1947	160	16	--	--	T, G	Irr	100	
L-115	C. E. Jones	Foust-Barnett	1946	172	16	79.0	July 31, 1950	T, E	Irr	120	
L-116	Mrs. S. E. Duggan	L. B. Brown	1948	187	18	63.6	do	T, G	Irr	120	Pump: 10-in. set at 130 ft.
L-117	Mrs. Sid Pace	C. Harmon	1948	192	16	64.5	do	T, G	Irr	120	Drilled to red beds.
L-118	H. Sewell	--	1948	160	16	--	--	T, G, 85	Irr	88	
L-119	J. E. Johnson	-- Barnett	1947	184	16	b/56.7	Mar. 24, 1949	T, G	Irr	88	
L-120	C. H. Calvert	Barnett-Irving	1947	170	16	--	--	T, G	Irr	50	
L-121	A. W. Ray	J. H. Barnett	1948	184	16	--	--	T, G	Irr	145	
L-122	C. H. Calvert	do	1945	170	16	--	--	T, G	Irr	115	
L-123	C. O. Griffin	H. Barnett	1950	182	16	67.7	Aug. 11, 1950	T, G	Irr	70	
L-124	W. J. Foley	Bill Morgan	1950	189	16	68.5	do	T, G	Irr	70	Drilled to red beds.
L-125	Leonard Green	Fred Foust	1948	165	12	--	--	T, E	Irr	30	
L-126	-- Carlisle	--	--	--	--	--	--	T, E, 50	Irr	--	
L-127	Geo. P. Wash	B. D. Garland	1948	194	16	--	--	T, G	Irr	130	Measured discharge, 845 gpm Apr. 3, 1952.
L-128	Mrs. W. Harrell	--	--	135	--	--	--	T, E	Irr	190	
L-129	do	--	--	135	--	55.8	Apr. 25, 1937	None	N	--	Unused.

Table 8.--Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
L-130	C. H. Mauser	Green Machinery Co.	1937	204	16	72.7	Oct. 12, 1951	T, E, 30	Irr	140	Water level at 84.0 ft Apr. 28, 1937, after 52 hours pumping at 800 gpm. Drilled to red beds. Insufficient water for irrigation; abandoned. Reported good well. Uses sprinkler system.
L-131	L. C. Hewitt	Fred Foust	1947	200	--	--	--	None	N	--	Do.
L-132	do	do	1947	175	16	--	--	T, E, 40	Irr	100	Reported good well. Uses sprinkler system.
L-133	do	do	1944	156	16	--	--	T, E, 40	Irr	100	Do.
L-134	E. E. Hudgins	E. E. Hudgins	1945	170	16	a/65	June 1950	T, E, 145	Irr	100	Casing: 16-in. to 100 ft. Reported discharge, 600 gpm in September 1941.
L-135	do	do	1941	196	16	63.0	July 25, 1950	T, E, 100	Irr	100	Altitude of land surface, 3,531 ft. Reported discharge, 600 gpm in 1941. See log.
L-136	City of Littlefield	G. L. Taylor	1941	240	16	--	--	T, E	P, S	--	Blue clay at 133 ft.
L-137	L. B. Davis	F. Foust	1950	134	14	--	--	T, G	Irr	100	Altitude of land surface, 3,535.3 ft. See log.
L-138	City of Littlefield	G. L. Taylor	1945	200	14	--	--	E	Irr	--	Drawdown 38 ft after 16 hours of pumping at 400 gpm in 1936. See log.
L-139	do	A. B. Hays	1936	130	12 1/2	a/59	Oct. 1937	T, E	P, S	--	Pumping level at 93.8 ft on Mar. 1, 1945. Temp. 64°F. See log.
L-140	do	Fred Foust	1935	148	15 1/2	66	Oct. 7, 1937	T, E	P, S	--	Abandoned. See log.
L-141	R. L. Holden	H. C. Ferguson	1937	195	13	--	--	None	N	--	Reported weak well.
L-142	Peyton Packing Co.	Fred Foust	1940	100	--	--	--	T, --	S	--	Do.
L-143	do	--	1940	--	--	--	--	--	D, S	--	Do.
L-144	W. H. Montgomery	Fred Foust	1950	110	10	--	--	T, E	Irr	15	Estimated discharge, 300 gpm Sept. 4, 1950.
L-145	H. R. Ferguson	do	1942	114	8-3/8	--	--	T, E	Irr	15	Estimated discharge, 200 gpm Sept. 6, 1950.
L-146	L. H. Black	do	1944	100	16	62.0	Oct. 24, 1950	T, G, 100	Irr	15	Reported weak well.
L-147	J. O. Gore	do	1949	120	8	62.0	do	T, E	Irr	10	Do.
L-148	K. D. Heard	--	1949	120	16	--	--	T, G	Irr	--	Blue clay at 119 ft.
L-149	do	--	1949	120	16	--	--	T, G	Irr	--	Do.
L-150	J. M. Inklebarger	J. W. Hornbrook	1947	143	16	76.6	Aug. 24, 1950	T, G	Irr	80	Blue clay at 119 ft.



Table 8.-- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land surface datum (ft.)	Date of measurement				
L-151	J. M. Inklebarger	-- Cox	1950	146	16	65.9	Aug. 24, 1950	T, G	Irr	85	
L-152	H. Kling	Green Machinery Co.	1949	142	16	6/73	May 1949	T, E, 30	Irr	75	Pump: 6-in. set at 120 ft.
L-153	do	J. Nordyke	1950	138	16	72.9	July 24, 1950	T, G	Irr	75	
L-154	J. J. Renfro	J. H. Barnett	1950	148	16	71.4	do	T, G	Irr	40	
L-155	do	do	1949	142	16	--	--	T, G	Irr	48	
L-156	Rex Mathews	Fred Foust	1935	124	12	49.7	May 1, 1937	T, G, 88	Irr	--	Dug 50 ft, drilled 74 ft. Casing: 12-in. from 50 ft to 114 ft.
L-157	E. E. Harkins	W. B. Gwym	1944	140	16	66.4	July 24, 1950	T, G	Irr	100	
L-158	Troy Myers	--	--	140±	16	6/70	July 1950	T, G	Irr	--	
L-159	Edith Collie	W. J. Altman	1942	135	14, 12	69.5	Aug. 24, 1950	T, G	D, Irr	65	Casing: 14-in. to 85 ft, 12-in. to 97 ft. Pump: 8-in., 4-stage, set at 100 ft. Measured discharge, 555 gpm Oct. 24, 1950.
L-160	A. D. Vandargriff	L. P. Davis	1946	260	16	--	--	T, G, 120	Irr	80	
L-161	Joe Weiborn	Fred Foust	1949	150	16	55.1	Aug. 25, 1950	T, G	Irr	100	Casing set on red beds.
L-162	Earl Elliott	--	1948	146	16	63.2	Aug. 24, 1950	T, G, 85	Irr	175	
L-163	Mrs. -- Jones	Fred Foust	1945	150±	16	56.6	Sept. 22, 1950	T, G	Irr	85	
L-164	Earl Elliott	--	--	--	--	--	--	T, G, 100	Irr	100	Reported discharge, 650 gpm when drilled.
L-165	B. A. Fowler	-- Barpett	1947	140	16	6/50	1947	T, G	Irr	122	Measured discharge, 810 gpm Oct. 24, 1950.
L-166	do	do	1950	150	16	52.7	Oct. 24, 1950	T, G	Irr	30	
L-167	Floyd Dyer	--	--	100	16	6/40.9	Apr. 29, 1937	T, G, 100	Irr	111	Water level 78.2 ft. Aug. 24, 1950, after 52 hours of pumping an estimated 700 gpm.
L-168	B. Myers	F. Foust	1946	151	14	--	--	T, G	Irr	174	
L-169	A. K. Ramsey Estate	J. H. Barnett	1947	157	16	67.7	Aug. 24, 1950	T, G	Irr	170	Drilled to blue clay.
L-170	Bill Langford	J. D. Kirkland	1945	160	16	--	--	T, G	Irr	--	Pumping level at 88.4 ft. on July 27, 1950.
L-171	J. W. Nann Estate	R. Bishop	1948	171	16	--	--	T, G	Irr	175	
L-172	T. D. Gray	B. D. Garland	1948	154	14	--	--	T, G	Irr	85	
L-173	C. W. Smiley	Fred Foust	1936	155	15, 10	--	--	T, G, 85	Irr	--	Casing: 15-in. to 100 ft, 10-in. to 155 ft. Water level at 58.3 ft after 3 hours of pumping an estimated 900 gpm May 1, 1937.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
L-174	Bill Langford	J. D. Kirkland	1945	198	16	84.4	Aug. 24, 1950	T,G	Irr	177	
L-175	J. R. McKinney	A. W. Fish	1948	158	16	79.5	do	T,G	Irr	96	Drilled to blue clay.
L-176	J. L. Gallini	--	1947	156	16	--	--	T,G, 150	Irr	115	Do.
L-177	W. Gray	J. H. Barnett	1950	150	14	--	--	T,G, 50	Irr	90	
L-178	do	L. W. Ware	1943	160	12½	a/45	Feb. 1943	T,G	Irr	100	
L-179	Bill Langford	J. D. Kirkland	1946	160	18	--	--	T,G	Irr	93	
L-180	do	do	1949	199	16	--	--	T,G, 145	Irr	80	
L-181	J. L. Gallini	L. W. Ware	1942	157	14	53.7 65.6	Sept. 4, 1942 July 24, 1950	T,G, 100	Irr	160	Casing set on blue shale. Pump: 8-in., 2-stage, set at 90 ft.
L-182	S. Johnson	J. H. Barnett	1946	160	16	--	--	T,G	Irr	80	
*L-183	C. O. Griffin	do	1946	170	16	81.4	July 24, 1950	T,G	Irr	150	
L-184	A. P. Duggan	Herman Barnett	1947	176	16	84.4	Mar. 16, 1951	T,G, 165	Irr	--	
*L-185	do	do	1946	176	16	89.2 95.7	Oct. 24, 1950 Mar. 16, 1951	T,G	Irr	--	Water level at 110.7 ft Apr. 3, 1952, after 80 hours of pumping at 680 gpm. Temp. 64°F.
L-186	B. Y. Fields	--	1948	160	16	80.0	Mar. 16, 1951	T,G, 145	Irr	--	
L-187	Bill Boley	Fairbanks-Morse	1944	170	16	79.0	Aug. 24, 1950	T,G	Irr	130	Drilled to blue clay.
L-188	do	Byron-Jackson	1947	159	16	77.9	do	T,G	Irr	160	Do.
L-189	L. H. Black	Bishop Bros.	1948	165	16	--	--	T,G	Irr	170	Pump: 10-in., 3-stage, set at 140 ft.
L-190	Fred Duffy	J. H. Barnett	1946	140	16	74.5	Aug. 21, 1951	T,G	Irr	170	
*L-191	A. F. Wedel	Bob Ferguson	1937	158	15	63.0	Apr. 27, 1937	T,G	Irr	136	
L-192	C. D. Elder	--	1945	120	16	--	--	T,G	Irr	170	Pump: 10-in., 2-stage, set at 100 ft.
L-193	R. M. McCurry	--	1948	160	16	--	--	T,G	Irr	170	Drilled to blue clay.
L-194	J. B. Haire	Peerless Pump Co.	1941	108	16	57.5	Aug. 21, 1950	T,G	Irr	150	
L-195	do	F. Foust	1938	107	16	a/55	1950	T,G	Irr	150	Drilled to blue clay.
L-196	do	do	1942	135	16	54.5	Aug. 21, 1950	T,G	Irr	150	Do.
L-197	H. A. Vick	--	--	--	--	b/40.9 54.3	Aug. 16, 1937 Aug. 24, 1950	T,G	Irr	125	

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
L-198	J. W. Emfinger	Fred Foust	1944	129	12	48.8	Sept. 5, 1950	T,G	Irr	67	Pump: 8-in., 3-stage, set at 100 ft. Drilled to blue clay.
L-199	do	B. D. Garland	1948	142	16	--	--	T,G	Irr	140	
L-200	do	F. Foust	1945	136	16	--	--	T,G	Irr	100	
L-201	Mrs. J. M. Blessing	--	1937	--	--	--	--	None	N	--	Formerly used for road construction. Abandoned.
L-202	F. W. Legate	--	1947	135	--	--	--	None	N	--	Insufficient water for irrigation. Abandoned.
L-203	Leonard Irving	J. H. Barnett	1948	150	16	--	--	T,G	Irr	90	
L-204	do	do	1946	160	16	--	--	T,G	Irr	90	
L-205	H. E. Gohlke	Fred Foust	1944	127	16	a/48	Nov. 1944	T,G	Irr	165	
L-206	Leonard Irving	A. W. Fish	1945	--	--	--	--	None	N	--	Reported weak well. Abandoned.
L-207	Oscar Weige	Homer Durham	1950	130	--	--	--	None	N	--	Insufficient water for irrigation. Reported 4 ft of water-bearing sand and gravel. Blue clay at 130 ft. Abandoned.
L-208	do	do	1950	130	--	--	--	None	N	--	Do.
L-209	John Reznik	Kirkland & Ware	1949	132	16	46.9	Aug. 22, 1950	T,G	Irr	100	Pump: 8-in. set at 120 ft. Drilled to blue clay.
L-210	do	R. Bishop	1944	130	16	--	--	T,G	Irr	70	
L-211	W. F. Reznik	Bishop Bros.	1943	109	16	46.8	Aug. 22, 1950	T,G	Irr	100	
L-212	G. G. Wilson	F. Foust	1948	123	16	45.5	Aug. 21, 1950	T,G	Irr	75	
L-213	J. D. Lee	-- Rate	1937	100	16	36.5	Apr. 29, 1937	T,-	Irr	65	
L-214	J. D. Woods	J. D. Kirkland	1949	137	16	52.8	Aug. 21, 1950	T,G	Irr	100	
L-215	L. H. Porter	--	1948	--	--	63.1	Sept. 5, 1950	T,G	Irr	57	Pump: 6-in. set at 120 ft. Reported discharge, 500 gpm when drilled.
L-216	do	--	1949	--	--	63.9	do	T,G	Irr	57	
L-217	J. W. Emfinger	-- Cox	1950	124	16	64.3	Sept. 13, 1950	T,G	Irr	50	Casing: 16-in. to 106 ft.
L-218	do	do	1950	106	16	53.4	do	T,G	Irr	50	Reported discharge, 300 gpm in May 1950. Drilled to blue clay.
L-219	J. F. Truelove	--	1940	130±	16	61.5	do	T,G	Irr	30	Water reported to turn land white.

Table 8.- Records of wells in Lamb County.-Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
L-220	J. F. Truelove	--	--	127	16	60.1	Sept. 13, 1950	T, G	Irr	10	Water reported to turn land white.
L-221	O. Kent	-- Cox	1950	130	16	43.1	do	T, G	Irr	--	Reported weak well.
L-222	Ida Hendricks	--	1949	140	16	--	--	T, -	Irr	0	Reported discharge, 300 gpm.
L-223	M. R. and B. A. Fowler	L. J. Sheridan	1937	143	15	61.3 100.5	Apr. 29, 1937 May 2, 1952	None	N	--	Abandoned. See log.
L-224	J. E. Durham	F. Foust	1948	140	14	--	+	T, G	Irr	40	Estimated discharge, 350 gpm Sept. 6, 1950.
L-225	do	do	1950	140	14	+	+	T, G	Irr	40	Insufficient water for irrigation. Abandoned.
L-226	J. D. Evans	--	1947	136	16	+	+	None	N	--	Do.
L-227	do	Fred Foust	1948	142	16	--	--	None	N	--	
L-228	R. F. Hollingsworth	--	--	--	--	--	--	T, G	Irr	--	
*L-229	Rea Scott	Byron-Jackson	1946	110	16	--	--	T, G	Irr	160	Water level at 72.6 ft after 9 hours of pumping at 1,020 gpm May 2, 1952. Temp. 64 F.
L-230	J. T. Couch	Fred Foust	1945	100	18	b/36.5	Mar. 15, 1947	T, G	Irr	110	Water level at 63.4 ft Aug. 13, 1947, after 48 hours of pumping at 706 gpm. Drilled to blue clay.
L-231	do	do	1937	100	16	b/31.7	May 5, 1937	T, G	Irr	110	Water level 66.0 ft while pumping at 650 gpm Aug. 13, 1947.
L-232	Donald Love	Jack Grace	1946	103	16	--	--	T, G	Irr	85	Pump: 8-in. set at 70 ft. Water level at 62.5 ft after 6 hours of pumping at 930 gpm Aug. 13, 1947.
L-233	Jack Grace	A. Bishop	1943	99	14	37.9	Mar. 14, 1947	T, G	Irr	140	See log.
L-234	A. L. Ater	Fred Foust	1936	100	16	35.6 46.1	May 7, 1937 Sept. 6, 1950	T, G	Irr	95	
L-235	Mrs. A. L. Smith	A. E. Bishop	1936	91	15	34.6	May 5, 1937	T, G	Irr	220	
L-236	J. D. James	J. H. Barnett	1948	101	16	--	--	T, G	Irr	80	
L-237	E. Goheen	--	1939	127	16	--	--	T, G	Irr	154	Water level at 59 ft while pumping an estimated 900 gpm Aug. 16, 1950.
L-238	J. C. Harper	-- Whitfield	1937	125	15	57.9	May 5, 1937	T, G, 10	Irr	80	Drawdown 15.1 ft after 1-hour pumping an estimated 1,150 gpm May 5, 1937.
L-239	do	R. Bishop	1946	131	16	--	--	T, G	Irr	80	
L-240	J. D. James	-- Jones	1937	122	15	49.8 67.9	May 7, 1937 Aug. 16, 1950	T, G	Irr	80	

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
L-241	Branton & Clark	R. F. Davis	1941	152	15	a/64	May 1941	T,-	Irr	--	See log.
L-242	do	Bishop Bros.	1947	--	--	--	--	T,G	Irr	165	
L-243	John Harper	-- Bishop	1946	140	16	--	--	T,G	Irr	80	
L-244	C. Roberts	--	--	--	--	--	--	--	--	--	
L-245	Branton & Clark	--	--	--	--	--	--	T,G	Irr	165	
L-246	C. Roberts	--	--	--	--	--	--	--	--	--	
L-247	J. H. Denson	A. Bishop	1950	120	14	--	--	T,G	Irr	155	Reported discharge, 500 gpm in August 1950.
L-248	do	do	1940	110 <sup>+</sup>	14	--	--	T,G	Irr	--	
L-249	R. H. Hargrove	Bishop Bros.	1947	130	16	--	--	T,G	Irr	80	Pump: 8-in. set at 100 ft.
L-250	W. S. Moss	--	1945	90	16	--	--	T,G	Irr	100	
L-251	W. H. Servatius	R. Bishop	1950	100	16	a/55	Apr. 1950	T,G	Irr	80	
L-252	do	do	1945	120	16	53.5	Aug. 16, 1950	T,G	Irr	80	Water level reported at 42 ft in February 1945.
L-253	do	--	1938	--	16	56.5	Aug. 17, 1950	T,G	Irr	100	Pump: 8-in., 2-stage, set at 100 ft.
L-254	W. S. Moss, Jr.	--	1946	110	16	58.0	do	T,G	Irr	100	
L-255	G. V. Coker	F. E. Mauldin	1940	100	15	34.0	Sept. 4, 1942	T,G	Irr	60	See log.
L-256	R. M. Love	Fred Foust	1937	80	17	41.5	May 7, 1937	T,G, 85	Irr	--	
L-257	G. P. Maynard	Bishop Bros.	1941	98	16	--	--	T,G	Irr	60	Blue clay at 98 ft.
L-258	C. R. Kirk	do	1946	98	16	--	--	None	N	40	Reported weak well.
L-259	R. W. Woods	do	1950	116	16	55.0	Aug. 21, 1950	T,G	Irr	155	Drilled to blue clay.
L-260	Layne & Shotwell	R. D. Sawyer	1938	148	14	a/40	Jan. 1938	T,G	Irr	85	
L-261	do	J. H. Barnett	1946	143	16	a/50	Apr. 1950	T,G	Irr	60	Drilled to blue clay.
L-262	W. E. Liles	-- Bishop	1948	143	16	--	--	T,G, 95	Irr	54	
L-263	do	B. Elliott	1940	138	17	72.2	Oct. 21, 1950	T,G	Irr	110	Water level reported 43 ft Feb. 6, 1940. See log.
L-264	K. C. Moser	Bishop Bros.	1938	115	16	a/42	Feb. 1938	T,G	Irr	80	Estimated discharge, 500 gpm Aug. 21, 1950.
L-265	W. M. Moore	--	1943	100	16	--	--	T,G	Irr	160	
L-266	J. D. Melton	Consolidated Oil & Gas Co.	1948	170	16	--	--	T,G	Irr	140	

Table 8. - Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
L-267	Carl M. Jones	A. Bishop	1949	140	16	--	--	T, G	Irr	148	Pump: 8-in. set at 120 ft.
L-268	L. L. Stephenson	--	1944	139	16	--	--	T, G	Irr	--	
L-269	J. C. Grace	A. W. Fish	1945	142	16	n/55	May 1945	T, G	Irr	160	Casing set on blue clay.
L-270	H. Stacy	--	1947	150±	--	84.2	Aug. 17, 1950	T, G, 125	Irr	120	
L-271	Albert Cabla	H. F. Bishop	1937	131	15	--	--	T, G	Irr	140	Water level at 90.8 ft while pumping an estimated 900 gpm Aug. 17, 1950. Drilled to blue clay.
L-272	N. B. Oliver	-- Barnett	1946	147	14	--	--	T, G	Irr	147	
L-273	Joe Bujnesek	-- Morgan	1950	148	16	n/69	Apr. 1950	T, G	Irr	120	
L-274	A. W. Stanford	Whiten-Byers	1937	163	16	--	--	None	N	--	Abandoned.
L-275	do	A. Bishop	1949	163	16	97.9	Aug. 18, 1950	T, G	Irr	165	
*L-276	Ashley Cox	do	1947	160	16	--	--	T, G	Irr	170	Measured discharge, 678 gpm May 2, 1952. Temp. 64.5 F. Drilled to blue clay.
L-277	J. B. Anderson	J. Morgan	1949	215	16	--	--	T, G, 85	Irr	100	
L-278	G. W. Nunn	--	1948	--	--	--	--	T, G	Irr	90	
L-279	do	--	1947	--	--	--	--	T, G	Irr	100	
L-280	M. V. Kesey	A. Bishop	1944	148	16	--	--	T, G	Irr	165	
L-281	do	do	--	140	18	58.7	May 7, 1937	None	N	--	Abandoned.
L-282	J. C. Grace	do	1949	178	16	--	--	T, G	Irr	160	
L-283	Troy Kesey	do	1947	189	16	--	--	T, G	Irr	80	
L-284	J. B. Haire	-- Bankston	1945	135	16	--	--	T, G	Irr	160	
L-285	W. E. Lies	Bishop Bros.	1945	155	14	--	--	T, G	Irr	75	
L-286	do	do	1950	145	16	--	--	T, G, 95	Irr	90	
L-287	E. A. Hall	Bradford Supply Co.	1943	149	13	--	--	T, G	Irr	165	
L-288	J. E. Padon	Bishop Bros.	1945	170	16	--	--	T, G, 120	Irr	160	Pump: 8-in. set at 130 ft. Casing set on blue clay.
L-289	Ray Hatson	J. H. Barnett	1950	158	16	--	--	T, G	Irr	85	Water level at 98.1 ft while pumping an estimated 900 gpm Aug. 21, 1950.
L-290	do	Fairbanks-Morse	1943	158	16	79.3	Aug. 21, 1951	T, G	Irr	165	
L-291	Floyd Dyer	J. H. Barnett	1949	176	16	93.5	Aug. 22, 1950	T, G, 100	Irr	85	Drilled to blue clay.



Table 8.--Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
L-292	Floyd Dyer	Bud Gibbons	1942	172	16	a/70	Mar. 1942	T, G, 100	Irr	85	Drilled to blue clay.
L-293	R. G. Johnson	M. A. Patton	1940	162	15	a/70	Apr. 1940	T, G, 125	Irr	160	Pump: 8-in., 2-stage, set at 120 ft.
L-294	L. Kirk	Fred Foust	1946	190	--	--	--	T, G	Irr	120	Water level at 119.3 ft while pumping an estimated 900 gpm Aug. 21, 1950.
L-295	do	do	1949	197	16	111.7	Aug. 21, 1950	T, G	Irr	170	Well 1/4 mile east of pumping wells.
L-296	W. Jones	do	1944	202	14	--	--	T, G	Irr	80	Drilled to blue clay.
L-297	do	J. H. Barnett	1948	196	16	119.4	Aug. 21, 1950	T, G	Irr	80	Nearby wells pumping.
L-298	W. O. Jones	Bishop Bros.	1946	200	16	--	--	T, G	Irr	160	Water level at 116.7 ft after 4 hours of pumping an estimated 1,400 gpm Aug. 21, 1950.
L-299	Ellwood Estate	Graham Oil & Gas Co.	1930	4,508	6-5/8	--	--	T, G	Irr	--	Oil test. See log.
L-300	Ben Mauser	Consolidated Oil & Gas Co.	1948	200	16	106.8	Sept. 22, 1950	T, G	Irr	110	
L-301	A. M. Leftwich	J. H. Barnett	1947	194	16	--	--	T, G, 120	Irr	90	
L-302	Joe Prater	S. Ballard	1948	190	16	--	--	T, G	Irr	109	Pump: 8-in. set at 144 ft.
L-303	Jack Farr	--	1944	204	16	--	--	T, G	Irr	170	Water reported to have gyp taste.
L-304	J. H. Barnett	J. H. Barnett	1948	195	16	--	--	T, G	Irr	80	Do.
L-305	C. D. Anderson	-- Bishop	1950	232	16	a/90	Aug. 1950	T, G	Irr	100	Drilled to red beds.
L-306	L. B. Poteet Estate	J. D. Kirkland	1950	254	16	--	--	T, G	Irr	125	
L-307	R. L. and L. M. Stubblefield	T. W. Price	1940	196	14 1/2	a/85	--	None	N	--	Abandoned. See log.
L-308	Deck Herd	-- Barnett	1949	192	16	--	--	None	Irr	100	Casing: 16-in. to 137 ft. Reported caving sands.
L-309	C. C. Byars	R. Bishop	1946	--	--	114.8	July 26, 1950	T, G	Irr	100	
L-310	Paul Zahn	Consolidated Oil & Gas Co.	1946	206	16	--	--	T, G	Irr	--	
L-311	R. J. Rhoten	Joe Morgan	1950	213	16	110.1	July 27, 1950	T, G	Irr	140	Drilled to red beds.
L-312	J. Dubec	J. D. Kirkland	1949	220	16	--	--	T, G	Irr	145	
L-313	H. Carter	Ware & Kirkland	1948	220	16	121.2	July 27, 1950	--	Irr	160	Drilled to red beds.
L-314	do	Bradford Supply Co.	1940	204	13	123.5	do	T, G	Irr	160	Pump: 8-in., 3-stage, set at 160 ft. See log.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
L-315	Mrs. B. Hubdeth	Garland Motor Co.	1948	--	--	--	--	T,G	Irr	80	
L-316	R. C. Johnson	---	1947	205	16	--	--	T,G, 150	Irr	150	Estimated discharge, 1,050 gpm Aug. 23, 1950.
L-317	V. L. Leonard	R. Bishop	1950	177	16	---	---	T,G	Irr	100	
L-318	A. W. Howerton	Ware Bros.	1946	195	16	---	--	T,G	Irr	170	Drilled to red beds.
L-319	J. H. Barnett	J. H. Barnett	---	198	16	---	--	T,G	Irr	80	
L-320	do	A. W. Fish	1939	200	16	--	--	T,G	Irr	80	
L-321	-- McQuatter	J. H. Barnett	1947	178	16	97.6	July 24, 1950	T,G	Irr	100	
L-322	Roy B. McQuatter	Fouch Bros.	1945	180	14	a/91	Mar. 1945	T,G	Irr	60	
L-323	A. Tennyson	H. Barnett	1950	198	16	a/100	Apr. 1950	T,G	Irr	115	Red beds at 196 ft.
L-324	L. J. Swanson	F. Foust	1936	204	15, 13, 10	134.7	Aug. 23, 1950	T,G	Irr	100	Casing: 15-in. to 155 ft., 13-in. to 185 ft., and 10-in. to 204 ft. Pump: 8-in., 3-stage, set at 150 ft.
L-325	L. McCain	S. Ballard	1949	242	16	---	---	T,G	Irr	150	
L-326	do	do	1949	227	16	--	---	T,G	Irr	50	Reported discharge, 500 gpm in January 1949.
L-327	N. Strawn	R. Bishop	1947	230	16	---	---	T,G	Irr	---	
L-328	do	Bishop Bros.	1950	230	16	140.7	July 26, 1950	T,G	Irr	150	
L-329	E. C. Hardman	---	1936	210	16	a/140	June 1950	T,G	Irr	100	
*L-330	N. S. Young	A. B. Hays	1936	185	16	113.0 118.6	Apr. 19, 1937 May 2, 1952	T,G	Irr	---	Temp. 64°F.
*L-331	A. B. Moseley	---	1940	80	5	---	---	C,W	D,S	---	Casing: 5-in. to 20 ft.
L-332	City of Littlefield	---	1951	96	--	--	---	None	N	---	Drainage well. Drilled to blue clay.
*L-333	-- Bennett	---	--	126	5	99.1	Apr. 9, 1937	C,W	D,S	---	
M-1	O. L. Bundick	Consolidated Oil & Gas Co.	1947	197	16	---	---	T,G	Irr	80	Pump: 8-in. set at 120 ft.
M-2	N. J. and M. D. Moore	---	1948	200±	16	---	--	T,G	Irr	220	
M-3	K. Sorensen	Consolidated Oil & Gas Co.	1947	200	16	a/85	1947	T,G	Irr	290	
M-4	B. I. and C. D. Branner	Green Machinery Co.	1948	210	16	a/85	1948	T,G	Irr	155	
M-5	do	Consolidated Oil & Gas Co.	1948	208	16	88.3	Sept. 11, 1950	T,G	Irr	160	

Table 8--Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
M-6	M. V. Kelsey	H. P. Price	1941	--	--	74.8	Sept. 9, 1942	T,-	Irr	--	Reported discharge, 1,200 gpm in February 1941.
M-7	W. N. Orr	Bishop Bros.	1943	173	16	--	--	T,G	Irr	135	
M-8	O. N. Guthrie	-- Coutch	1948	168	16	--	--	T,G	Irr	160	
*M-9	S. C. Talbert	Fred Foust	1936	160	15, 10	76.8	Apr. 14, 1937	T,G, 100	Irr	50	Casing: 15-in. to 110 ft.; 10-in. to 160 ft. Estimated discharge, 600 gpm Sept. 8, 1950.
M-10	P. E. Roddy	Green Machinery Co.	1940	201	16	a/80	--	T,G, 100	Irr	100	Pump: 8-in., 2-stage, set at 120 ft. See log.
M-11	J. J. Rice	Montgomery-Ward	1948	214	16	86.1	Sept. 11, 1950	T,G	Irr	135	Drilled to red beds.
M-12	Claud Parks	L. Ware	1948	176	16	--	--	T,G	Irr	140	
M-13	D. L. Greenwood	W. O. Tye	1944	224	12	--	--	T,-	Irr	--	See log.
M-14	do	Green Machinery Co.	1950	300	16	--	--	T,G	Irr	--	Red beds at 288 ft.
M-15	W. T. Cook	Kirkland & Ware	1948	186	16	a/85	1950	T,G	Irr	70	Estimated discharge, 700 gpm Sept. 11, 1950.
M-16	J. B. Riney	J. D. Kirkland	1947	181	16	88.9	Sept. 11, 1950	T,G	Irr	120	
M-17	Lee C. O'Neil	M. A. Patton	1940	176	15½	--	--	T,G	Irr	160	Pump: 8-in., 2-stage, set at 130 ft.
M-18	T. B. Elder	Kirkland & Ware	1950	190	16	--	--	T,G	Irr	--	Replaces well M-19.
*M-19	do	A. B. Hays	1936	150	16, 14	--	--	None	N	--	Well caved in, abandoned July 28, 1950.
M-20	M. N. Colwell	J. D. Kirkland	1949	150	16	--	--	T,G	Irr	--	
M-21	W. E. Mitchell	Green Machinery Co.	1949	160	16	--	--	T,G	Irr	120	
M-22	T. B. Elder	Kirkland & Ware	1948	200	16	--	--	T,G	Irr	100	
*M-23	L. C. O'Neil	-- Sawyer	1937	150	15	86.3 96.2	Apr. 9, 1937 Oct. 23, 1950	T,G	Irr	--	Drawdown 26.1 ft after 8 hours of pumping an estimated 800 gpm Apr. 14, 1937. Temp. 64°F.
M-24	F. McCarter	Peerless Pump Co.	1940	150	16	95.3	July 27, 1950	T,G, 100	Irr	75	Pump: 8-in., 3-stage, set at 130 ft. See log.
M-25	Lee C. O'Neil	E. Bishop	1947	198	16	a/97	Oct. 1950	T,G, 85	Irr	195	
M-26	W. S. Duffer	J. H. Barnett	1941	232	18	105.0	July 27, 1950	T,G	Irr	120	Reported discharge, 800 gpm in December 1947. Drilled to red beds.
M-27	G. A. Duffer	Consolidated Oil & Gas Co.	1948	204	16	97.5	do	T,G	Irr	--	See log.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
M-28	H. Harvey	Green Machinery Co.	1949	200	16	---	---	None	N	---	Reported weak well, abandoned.
M-29	W. E. Savage	Consolidated Oil & Gas Co.	1948	204	16	---	---	T,G	Irr	---	
M-30	H. Harvey	Green Machinery Co.	1950	200	16	--	---	T,G	Irr	80	Estimated discharge, 850 gpm July 27, 1950.
*M-31	T. B. Elder	Henry P. Price	1937	150	16	82.4	Apr. 13, 1937	T,G	Irr	80	Drawdown 16 ft. after 15 minutes of pumping an estimated 750 gpm Apr. 13, 1937. Temp. 63°F.
M-32	M. M. Elder	Kirkland & Ware	1950	205	16	89.8	Aug. 27, 1950	T,G	Irr	---	
*M-33	T. B. Elder	do	1950	200	16	89.7	do	T,G	Irr	---	Measured discharge, 657 gpm June 19, 1952. Temp. 64°F.
M-34	J. R. Coen	--- Sawyer	1937	151	14	b/75.0	Apr. 14, 1951	T,G	Irr	200	Well filled in to 100 ft Apr. 14, 1937.
M-35	A. Lockwood	Sam Ballard	1946	208	16	83.8	Sept. 11, 1950	T,G	Irr	150	
M-36	do	Bud Gibbons	1939	180	16	---	---	T,G	Irr	150	
M-37	E. P. Hutchins	---	1946	208	16	--	---	T,G	Irr	160	Pumping of well lowers water level in nearby windmill well.
M-38	do	---	1947	210	16	---	--	T,G	Irr	125	Drilled to red beds.
M-39	H. B. Lynch	Green Machinery Co.	1950	200	16	---	--	T,G	Irr	150	
M-40	-- Emanuel	--	1947	200	17	99.4	Sept. 6, 1950	T,G	Irr	80	
M-41	Joe Poteet	Bishop Bros.	1949	205	16	--	---	T,G	Irr	100	
M-42	W. A. Tindal	A. Young	1948	208	16	--	--	T,G	Irr	135	Casing: 16-in. to 146 ft.
*M-43	P. E. Roddy	--	1944	200	16	a/100	May 1950	T,G	Irr	125	Measured discharge, 565 gpm May 2, 1952. Temp. 64°F.
M-44	-- Bingham	--	---	--	--	--	--	T,G	Irr	125	
M-45	Walter M. Wood	Walter Dugan	1947	190	16	--	--	T,G	Irr	125	Pump: 10-in. set at 140 ft.
M-46	do	A. W. Fish	1946	244	16	---	---	T,G	Irr	125	
M-47	J. W. Griffin, Jr.	Peerless Pump Co.	1944	200	14	93.4	July 27, 1950	T,G	Irr	200	Drilled to red beds.
M-48	J. R. Hodges	do	1948	200±	---	86.1	do	T,G	Irr	---	Reported discharge, 500 gpm when drilled.

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
M-49	C. Gardner	Consolidated Oil & Gas Co.	1948	204	16	87.6	July 26, 1950	T,G	Irr	--	
M-50	G. Durham	B. D. Garland	1948	--	--	--	--	T,G	Irr	150	
M-51	Don Tinsley	S. Ballard	1947	220	14	98.1	July 26, 1950	T,G	Irr	155	Red beds at 218 ft.
M-52	R. D. Stokes	F. W. Price	1940	200	14½	89.9	do	T,G, 100	Irr	--	Pump: 8-in., 2-stage, set at 120 ft. See log.
M-53	Arthur Turner	-- Bishop	1940	210	16	--	--	T,-	Irr	--	
M-54	Ada Bundick	Green Machinery Co.	1949	200	16	98.7	July 27, 1950	T,G	Irr	100	
M-55	R. D. Stokes	Consolidated Oil & Gas Co.	1947	200	16	89.2	Sept. 21, 1950	T,G	Irr	60	Pump: 8-in. set at 165 ft. Reported discharge, 600 gpm in August 1947.
M-56	A. J. Barker	-- Kirkland	1948	197	16	a/90	Sept. 1948	T,G	Irr	80	
M-57	James R. Duke	J. H. Barnett	1945	201	12	--	--	T,G	Irr	--	Pump: 8-in., 4-stage, set at 140 ft, lowered 20 ft Apr. 21, 1945. See log.
M-58	do	do	--	212	16	--	--	T,G	Irr	--	
M-59	L. A. Duffer	do	1942	200	18	--	--	T,G	Irr	100	
M-60	J. S. Brown, Sr.	Garland Motor Co.	1947	260	16	--	--	T,G	Irr	50	
M-61	do	Green Machinery Co.	1948	240	16	107.1	July 27, 1950	T,G	Irr	100	
M-62	O. D. Bingham	do	1947	200	16	105.0	do	T,G	Irr	115	Drilled to red beds.
M-63	do	do	1949	200	--	101.8	do	T,G	Irr	115	Do.
M-64	E. B. Stanley	B. D. Garland	1949	200 <sup>+</sup>	--	97.8	do	T,G	Irr	--	
M-65	Garland Bryant	Consolidated Oil & Gas Co.	1949	202	16	--	--	T,G	Irr	125	
M-66	O. D. Brown Estate	--	--	286	--	--	--	T,G	Irr	100	
M-67	do	L. Ware	--	280	--	--	--	T,G	Irr	50	
M-68	C. A. Hurt	Green Machinery Co.	1943	208	16	94.0	July 28, 1950	T,G	Irr	155	
M-69	F. O. Miller	Fairbanks-Morse	1950	325	16	91.0	July 27, 1950	T,G	Irr	--	Pump: 6-in. set at 250 ft.
M-70	do	R. T. Young	1945	250	16	93.1	do	T,G	Irr	--	Reported weak well.
M-71	do	--	1940	214	18	93.9	do	T,G	Irr	50	
M-72	G. R. Nabers	-- Whitfield	1937	--	--	91.1	Apr. 9, 1937	T,G	Irr	--	

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
M-73	C. Evans	S. Ballard	1947	200	16	--	--	T,G	Irr	80	
M-74	L. F. Hair	R. Young	1945	200	16	95.4	July 28, 1950	T,G	Irr	90	
M-75	J. D. Hair	do	1944	216	16	93.3	July 27, 1950	T,G	Irr	75	
M-76	James Duke	J. H. Barnett	--	254	16	--	--	--	Irr	--	Pump: 8-in. set at 190 ft. Reported discharge, 500 gpm July 28, 1950.
M-77	J. L. Blankenship	R. Bishop	1947	226	16	--	--	T,G	Irr	120	
M-78	W. F. Stowers	--	1947	208	16	98.1	July 27, 1950	T,G	Irr	100	Drilled to red beds.
M-79	do	B. Price	1940	214	14½	90.1	do	T,G	Irr	160	Pump: 8-in., 2-stage, set at 135 ft. See log.
M-80	F. L. Reed	J. D. Kirkland	1950	204	16	92.6	July 26, 1950	T,G	Irr	100	
M-81	Mrs. R. C. Roberts	H. P. Price	1940	211	16	a/90	Jan. 1940	T,G	Irr	120	See log.
M-82	Mrs. H. Ramage	-- Paten	1936	195	14	b/104.9	Apr. 9, 1937	T,G	Irr	--	
M-83	R. D. Stokes	--	1948	--	--	--	--	T,G	Irr	130	
M-84	W. H. Keese	Bishop Bros.	1948	200	16	--	--	--	--	--	
M-85	J. K. Nelson	Consolidated Oil & Gas Co.	1948	150	16	98.8	Oct. 24, 1950	T,G	Irr	80	
M-86	H. R. Wallace	do	1947	201	16	--	--	T,G	Irr	--	
M-87	R. L. Stubblefield	A. W. Fish	1950	216	16	--	--	T,G	Irr	90	Drilled to blue clay.
M-88	G. W. Steffey, Jr.	J. D. Kirkland	1950	160	--	--	--	T,G	Irr	60	
M-89	L. B. McCarry	Garland Motor Co.	1948	201	16	89.5	July 27, 1950	T,G	Irr	120	Pump: 8-in. set at 140 ft.
M-90	R. F. Groom	Bishop Bros.	1950	207	16	--	--	T,G	Irr	58	
M-91	W. M. Crittendon	--	1947	216	16	--	--	T,G	Irr	100	Casing set on hard shale.
M-92	C. B. McCoy	Garland Motor Co.	1950	225	16	96.7	July 26, 1950	T,G	Irr	120	
M-93	R. T. Block	Haynes Motor Co.	1949	300	16	--	--	T,G	Irr	125	
M-94	do	Consolidated Oil & Gas Co.	1948	220	16	89.1	July 27, 1950	T,G	Irr	160	See log.
M-95	Mrs. B. F. Hammock	-- Dean	1948	243	16	96.0	July 26, 1950	T,G	Irr	100	Drilled to red beds.
M-96	I. Fowler	Fred Foust	1948	230 <sup>+</sup>	16	--	--	T,G	Irr	100	
M-97	do	Peerless Pump Co.	1941	279	14	86.4	Sept. 4, 1942	T,G	Irr	50	Casing: 16-in. to 234 ft. Pump: 6-in. set at 204 ft. Estimated discharge, 500 gpm July 28, 1950. See log.



Table 8--Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
M-98	I. Fowler	J. D. Kirkland	1949	217	16	a/85	1949	T, G	Irr	100	
M-99	O'Brien	--	1949	220	16	--	--	T, G	Irr	100	Water level at 106.5 ft June 19, 1952, after 65 hours of pumping at 775 gpm. Temp. 64 F.
M-100	C. E. Dean	M. A. Patton	1939	203	16	a/85	Dec.	T, G	Irr	140	
M-101	do	--	1947	200	16	a/85	1947	T, G	Irr	130	
M-102	E. D. Tale	J. D. Kirkland	1950	246	16	85.4	Aug. 23, 1950	T, G	Irr	60	Casing: 16-in. to 221 ft.
M-103	J. Scarborough	Lee Couch	1948	200	16	88.4	July 25, 1950	T, G	Irr	80	
M-104	L. Leonard	Consolidated Oil & Gas Co.	1948	209	16	a/90	Feb.	T, G	Irr	90	See log.
M-105	R. L. Ramage	Sears Roebuck & Co.	1947	210	16	90.6	July 26, 1950	T, G	Irr	100	
M-106	E. T. Miller	R. T. Young	1947	170	16, 14	86.9	Aug. 23, 1950	T, G	Irr	125	Casing: 16-in. to 145 ft, 14-in. to 170 ft. Pump: 10-in. set at 140 ft.
M-107	do	do	1947	165	16	86.5	do	T, G	Irr	70	
M-108	do	--	1949	175	16	86.8	do	T, G	Irr	105	
M-109	G. W. Steffey	--	--	--	--	--	--	T, G	Irr	--	
M-110	--	--	--	--	--	88.6	Oct. 24, 1950	T, G, 100	Irr	--	
M-111	W. T. Garnett	R. Bishop	1950	167	16	--	--	T, G	Irr	55	
M-112	J. S. Bridges	Green Machinery Co.	1948	165	16	83.8	Aug. 22, 1950	T, G	Irr	120	Reported discharge, 1,400 gpm in December 1948.
M-113	Mrs. Beulah Love	Fred Foust	1937	160	16	--	--	T, G, 100	Irr	135	Drilled to blue shale.
M-114	E. A. Egenbacher	R. Bishop	1945	210	16	--	--	T, G	Irr	165	Water level at 108 ft while pumping an estimated 900 gpm Aug. 17, 1950. Drilled to blue clay.
M-115	Van B. Clark	--	1946	200	16	--	--	T, G	Irr	125	
M-116	do	--	1946	220	--	a/80	--	T, G	Irr	30	Estimated discharge, 450 gpm Aug. 22, 1950.
M-117	Mrs. E. F. Bryant	-- Couch	1948	194	16	--	--	T, G	Irr	100	
M-118	Boyd Bryant	J. D. Kirkland	1950	222	16	--	--	T, G	Irr	100	Water level at 128.3 ft after 4 hours of pumping an estimated 900 gpm Aug. 23, 1950. See log.

Table 8.-- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
M-119	W. F. Adams	-- Garland	1946	220	16	104.4	Aug. 18, 1950	T, G	Irr	150	
M-120	J. J. Calloway	--	1944	--	--	a/100	1944	T, G	Irr	145	
M-121	Earl Winkers	--	1948	--	--	--	--	--	Irr	150	
M-122	J. E. Eimms	A. W. Fish	1950	240	16	--	--	T, G	Irr	125	
M-123	L. W. Clark	--	1949	225	16, 14	--	--	T, G, 135	Irr	155	Casing: 16-in. to 135 ft., 14-in. to 225 ft.
M-124	J. Jackson	--	--	--	--	--	--	T, --	Irr	--	
M-125	L. W. Clark	M. L. Morgan	1937	185	16	--	--	T, G, 160	Irr	140	
M-126	J. E. Eimms	A. W. Fish	1946	200	16	--	--	T, G	Irr	150	Pump: 8-in. set at 160 ft.
M-127	D. R. Hopkins	B. Bishop	1948	180	16	--	--	T, G	Irr	80	
M-128	Mrs. D. Molder	C. Harmon	1950	212	16	--	--	T, G, 95	Irr	40	Casing set on blue shale. Estimated discharge, 450 gpm Aug. 22, 1940.
M-129	do	do	1948	218	16	a/80	--	T, G	Irr	100	
M-130	C. D. Nelson	--	--	--	--	--	--	T, G	Irr	--	
M-131	M. C. Bierman	Fred Foust	1937	163	--	--	--	T, G	Irr	100	Water level at 99.8 ft while well was pumped at 825 gpm Aug. 22, 1950.
M-132	L. L. Anderson	A. Bishop	1946	177	18	--	--	T, G	Irr	165	Pump: 8-in. set at 144 ft.
M-133	O. B. Vallance	J. D. Kirkland	1947	155	18	--	--	T, G	Irr	160	
M-134	L. F. Hoelscher	do	1948	198	18	a/62	Mar. 1948	T, G	Irr	150	
M-135	J. C. Cunningham	do	1948	220	16	--	--	T, G	Irr	130	
M-136	E. A. Whitfield	do	1950	182	16	--	--	T, G	Irr	60	Water level at 118.1 ft while well was pumped at an estimated 900 gpm Aug. 18, 1950
M-137	Oda Kelly	Fred Kelly	1945	145	16	--	--	T, G	Irr	200	
M-138	do	Ralph Bishop	1947	14	--	--	--	T, G	Irr	100	Pump: 8-in. set at 90 ft. Casing set on blue clay.
M-139	-- Egenbacher	E. A. Bishop	1943	141	12½	--	--	T, G	Irr	150	Water level 86.5 ft while well was pumped an estimated 700 gpm Aug. 17, 1950. See log.

Table 8. - Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
M-140	S. N. Twilley	Bishop	1949	140	16	---	---	T,G	Irr	80	
M-141	M. C. Bierman	--	1944	170	16	---	--	T,G	Irr	120	
M-142	W. G. Perry	--	---	--	--	84.2	Oct. 24, 1950	T,G	Irr	---	
*M-143	W. O. Stacy	H. C. Ferguson	1937	155	15, 14	77.0	Oct. 5, 1937	T,G, 85	Irr	---	Drawdown 17 ft after 6 hours of pumping at 750 gpm Oct. 5, 1937.
M-144	C. C. Cox	E. A. Bishop	1949	170	16	--	--	T,G	Irr	85	
M-145	do	do	1950	167	16	---	--	T,G	Irr	85	
M-146	do	do	1941	162	16	a/96	Mar. 1941	T,G	Irr	150	Water level 140.7 ft while well was pumped an estimated 1,100 gpm Aug. 18, 1950. See log.
M-147	W. T. Hopkins	do	1947	180	16	--	---	T,G	Irr	130	Pump: 8-in. set at 150 ft.
*M-148	do	H. F. Bishop	1937	---	--	--	--	None	N	--	Abandoned in 1950.
M-149	Mrs. D. R. Byrum	Bishop Bros.	1941	200	16	a/121	July 1941	T,G	Irr	50	Pump: 6-in. set at 184 ft. Estimated discharge, 600 gpm Aug. 17, 1950.
M-150	do	do	1950	189	16	---	--	T,G	Irr	50	
M-151	D. R. Hopkins	R. Bishop	1944	180	16	--	--	T,G	Irr	125	
M-152	do	do	1950	200	16	--	---	T,G	Irr	125	Reported discharge, 700 gpm April 1950.
*M-153	J. P. Ratliff	--- Ferguson	1937	180	16	---	---	T,G	Irr	130	Water level 147.7 ft May 6, 1937. Pump lowered to 165 ft.
M-154	R. F. Butler	R. Bishop	1948	197	16	---	---	T,G	Irr	140	
M-155	J. R. Tucker	Bishop Bros.	1945	194	16	127.2	Aug. 18, 1950	T,G	Irr	160	
M-156	P. Lyda	R. Bishop	1949	172	16	---	---	T,G	Irr	80	Pump: 6-in. set at 160 ft.
M-157	do	do	1950	168	16	---	---	T,G	Irr	80	
M-158	E. Orcutt	do	1949	234	16	---	---	None	N	--	To be used for irrigation.
M-159	Amos T. Shockley	A. Bishop	1949	189	16	125.7	Aug. 18, 1950	T,G	Irr	70	Pump: 8-in. set at 160 ft. Reported discharge, 400 gpm March 1949.
M-160	C. A. Jackson	Lubbock Drilling Co.	1946	165	16	11.4	Aug. 16, 1950	None	N	---	Reported discharge, 350 gpm November 1946. Not used at present. May install small pump.
M-161	do	Adair Bishop	1950	155	16	110.0	do	T,G	Irr	130	Blue clay at 152 ft.
M-162	E. Orcutt	Bishop Bros.	1948	173	16	---	--	T,G	Irr	100	Blue shale at 173 ft.

Table 8.-- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
M-163	Robert Roach	--	--	130	--	95.4	May 6, 1937	T,-	Irr	--	Drilled to blue clay.
M-164	Preston Lyda	R. Bishop	1948	137	16	--	--	T,G	Irr	160	Reported discharge, 500 gpm January 1949.
M-165	A. A. Snitker	Bishop Bros.	1949	165	16	--	--	T,G	Irr	80	Original depth, 160 ft.; deepened to 200 ft, reported no improvement in yield.
M-166	O. W. Stephenson	do	1941	172	16	--	--	T,G	Irr	80	Estimated discharge, 300 gpm Aug. 17, 1950.
M-167	J. E. Rucker	do	1946	200	16	--	--	T,G	Irr	90	Casing: 15-in. to 115 ft, 14-in. to 145 ft. Water level 96 ft while pumping an estimated 1,400 gpm Aug. 17, 1950.
M-168	do	do	1947	160	16	--	--	T,G	Irr	20	Pump: 10-in. set at 80 ft.
*M-169	S. N. Twilley	-- Bishop	1937	145	15, 14	--	--	T,G, 85	Irr	120	Pump: 12-in. set at 200 ft. Water level reported at 190 ft while pumping at 1,100 gpm October 1949.
M-170	do	-- Bishop	1946	140	16	--	--	T,G	Irr	100	Drilled to blue clay.
M-171	J. Harper	--	1944	140	16	--	--	T,G	Irr	80	Do.
M-172	J. M. Childers	A. Bishop	1947	140	16	90.2	Aug. 17, 1950	T,G	Irr	95	Water level at 104.5 ft Aug. 13, 1947, after 4 days pumping at 875 gpm. See log.
M-173	R. L. Owen	Peerless Pump Co.	1945	140	16	--	--	T,G	Irr	130	
M-174	J. Praslicka	C. Harmon	1949	220	16	--	--	T,G	Irr	75	
M-175	Rudolph Shockley	Green Machinery Co.	1946	140	16	--	--	T,G	Irr	95	
M-176	G. R. Lindly	--	1948	130	16	--	--	T,G	Irr	130	
M-177	J. S. Bridges	Green Machinery Co.	1945	165	16	97.2 99.0 99.6	Jan. 17, 1951 Jan. 29, 1952 Jan. 16, 1953	T,G	Irr	100	
M-178	D. T. Teague	--	1946	160	16	--	--	T,G	Irr	220	
M-179	S. M. Minton	--	1947	150	--	--	--	T,G	Irr	200	
M-180	F. C. Rutherford	Bishop Bros.	1945	150	16	b/	--	T,G	Irr	60	
M-181	W. O. Wilson	--	1940	140	--	--	--	T,G	Irr	90	
M-182	J. H. Farrier	-- Bishop	1940	--	--	--	--	T,E, 30	Irr	80	

Table 8.- Records of wells in Lamb County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water level		Method of lift	Use of water	Acres irrigated in 1950	Remarks
						Below land-surface datum (ft.)	Date of measurement				
M-183	P. L. Swan	Ralph Bishop	1935	--	--	--	--	T.E	Irr	--	
M-184	do	Fred Kelly	1944	157	16	92.4	Aug. 16, 1950	T.E	Irr	130	Casing: 16-in. to 150 ft. Drilled to blue clay.
M-185	do	R. Bishop	1945	137	16	a/90	1945	T.E, 30	Irr	130	

a/ Water level reported by owner or driller.

b/ See table 10, records of water-level measurements.

\* See table 11, for analyses.

1. Name of the person	2. Address	3. Telephone	4. Date	5. Time	6. Duration	7. Description of work	8. Remarks
Mr. J. K. Smith	123 Main St., New York, N.Y.	555-1234	10/15/55	10:00 AM	1:00 PM	Interviewed re: project	See report
Mr. A. B. Jones	456 Elm St., New York, N.Y.	555-5678	10/16/55	2:00 PM	3:30 PM	Interviewed re: project	See report
Mr. C. D. Brown	789 Oak St., New York, N.Y.	555-9012	10/17/55	9:00 AM	10:30 AM	Interviewed re: project	See report
Mr. E. F. Green	1011 Pine St., New York, N.Y.	555-3456	10/18/55	11:00 AM	12:30 PM	Interviewed re: project	See report
Mr. G. H. White	1313 Maple St., New York, N.Y.	555-7890	10/19/55	1:00 PM	2:30 PM	Interviewed re: project	See report
Mr. I. J. Black	1615 Birch St., New York, N.Y.	555-2345	10/20/55	3:00 PM	4:30 PM	Interviewed re: project	See report
Mr. K. L. Gray	1917 Cedar St., New York, N.Y.	555-6789	10/21/55	10:00 AM	11:30 AM	Interviewed re: project	See report
Mr. M. N. Blue	2219 Spruce St., New York, N.Y.	555-0123	10/22/55	2:00 PM	3:30 PM	Interviewed re: project	See report
Mr. O. P. Yellow	2521 Willow St., New York, N.Y.	555-4567	10/23/55	9:00 AM	10:30 AM	Interviewed re: project	See report
Mr. Q. R. Purple	2823 Hickory St., New York, N.Y.	555-8901	10/24/55	11:00 AM	12:30 PM	Interviewed re: project	See report
Mr. S. T. Pink	3125 Ash St., New York, N.Y.	555-2345	10/25/55	1:00 PM	2:30 PM	Interviewed re: project	See report
Mr. U. V. Brown	3427 Sycamore St., New York, N.Y.	555-6789	10/26/55	3:00 PM	4:30 PM	Interviewed re: project	See report
Mr. W. X. Green	3729 Dogwood St., New York, N.Y.	555-0123	10/27/55	10:00 AM	11:30 AM	Interviewed re: project	See report
Mr. Y. Z. White	4031 Magnolia St., New York, N.Y.	555-4567	10/28/55	2:00 PM	3:30 PM	Interviewed re: project	See report
Mr. AA. BB. Black	4333 Tulip St., New York, N.Y.	555-8901	10/29/55	9:00 AM	10:30 AM	Interviewed re: project	See report
Mr. CC. DD. Blue	4635 Iris St., New York, N.Y.	555-2345	10/30/55	11:00 AM	12:30 PM	Interviewed re: project	See report
Mr. EE. FF. Yellow	4937 Rose St., New York, N.Y.	555-6789	10/31/55	1:00 PM	2:30 PM	Interviewed re: project	See report
Mr. GG. HH. Purple	5239 Lily St., New York, N.Y.	555-0123	11/1/55	3:00 PM	4:30 PM	Interviewed re: project	See report
Mr. II. JJ. Pink	5541 Poppy St., New York, N.Y.	555-4567	11/2/55	10:00 AM	11:30 AM	Interviewed re: project	See report
Mr. KK. LL. Brown	5843 Dandelion St., New York, N.Y.	555-8901	11/3/55	2:00 PM	3:30 PM	Interviewed re: project	See report
Mr. MM. NN. Green	6145 Sunflower St., New York, N.Y.	555-2345	11/4/55	9:00 AM	10:30 AM	Interviewed re: project	See report
Mr. OO. PP. White	6447 Geranium St., New York, N.Y.	555-6789	11/5/55	11:00 AM	12:30 PM	Interviewed re: project	See report
Mr. QQ. RR. Black	6749 Zinnia St., New York, N.Y.	555-0123	11/6/55	1:00 PM	2:30 PM	Interviewed re: project	See report
Mr. SS. TT. Blue	7051 Petunia St., New York, N.Y.	555-4567	11/7/55	3:00 PM	4:30 PM	Interviewed re: project	See report
Mr. UU. VV. Yellow	7353 Marigold St., New York, N.Y.	555-8901	11/8/55	10:00 AM	11:30 AM	Interviewed re: project	See report
Mr. WW. XX. Purple	7655 Begonia St., New York, N.Y.	555-2345	11/9/55	2:00 PM	3:30 PM	Interviewed re: project	See report
Mr. YY. ZZ. Pink	7957 Hibiscus St., New York, N.Y.	555-6789	11/10/55	9:00 AM	10:30 AM	Interviewed re: project	See report
Mr. AA. BB. Brown	8259 Camellia St., New York, N.Y.	555-0123	11/11/55	11:00 AM	12:30 PM	Interviewed re: project	See report
Mr. CC. DD. Green	8561 Jasmine St., New York, N.Y.	555-4567	11/12/55	1:00 PM	2:30 PM	Interviewed re: project	See report
Mr. EE. FF. White	8863 Lavender St., New York, N.Y.	555-8901	11/13/55	3:00 PM	4:30 PM	Interviewed re: project	See report
Mr. GG. HH. Black	9165 St. George St., New York, N.Y.	555-2345	11/14/55	10:00 AM	11:30 AM	Interviewed re: project	See report
Mr. II. JJ. Blue	9467 St. Marks St., New York, N.Y.	555-6789	11/15/55	2:00 PM	3:30 PM	Interviewed re: project	See report
Mr. KK. LL. Yellow	9769 St. Nicholas St., New York, N.Y.	555-0123	11/16/55	9:00 AM	10:30 AM	Interviewed re: project	See report
Mr. MM. NN. Purple	10071 St. Peter St., New York, N.Y.	555-4567	11/17/55	11:00 AM	12:30 PM	Interviewed re: project	See report
Mr. OO. PP. Pink	10373 St. Paul St., New York, N.Y.	555-8901	11/18/55	1:00 PM	2:30 PM	Interviewed re: project	See report
Mr. QQ. RR. Brown	10675 St. James St., New York, N.Y.	555-2345	11/19/55	3:00 PM	4:30 PM	Interviewed re: project	See report
Mr. SS. TT. Green	10977 St. John St., New York, N.Y.	555-6789	11/20/55	10:00 AM	11:30 AM	Interviewed re: project	See report
Mr. UU. VV. White	11279 St. George St., New York, N.Y.	555-0123	11/21/55	2:00 PM	3:30 PM	Interviewed re: project	See report
Mr. WW. XX. Black	11581 St. Marks St., New York, N.Y.	555-4567	11/22/55	9:00 AM	10:30 AM	Interviewed re: project	See report
Mr. YY. ZZ. Blue	11883 St. Nicholas St., New York, N.Y.	555-8901	11/23/55	11:00 AM	12:30 PM	Interviewed re: project	See report
Mr. AA. BB. Yellow	12185 St. Peter St., New York, N.Y.	555-2345	11/24/55	1:00 PM	2:30 PM	Interviewed re: project	See report
Mr. CC. DD. Purple	12487 St. Paul St., New York, N.Y.	555-6789	11/25/55	3:00 PM	4:30 PM	Interviewed re: project	See report
Mr. EE. FF. Pink	12789 St. James St., New York, N.Y.	555-0123	11/26/55	10:00 AM	11:30 AM	Interviewed re: project	See report
Mr. GG. HH. Brown	13091 St. John St., New York, N.Y.	555-4567	11/27/55	2:00 PM	3:30 PM	Interviewed re: project	See report
Mr. II. JJ. Green	13393 St. George St., New York, N.Y.	555-8901	11/28/55	9:00 AM	10:30 AM	Interviewed re: project	See report
Mr. KK. LL. White	13695 St. Marks St., New York, N.Y.	555-2345	11/29/55	11:00 AM	12:30 PM	Interviewed re: project	See report
Mr. MM. NN. Black	13997 St. Nicholas St., New York, N.Y.	555-6789	11/30/55	1:00 PM	2:30 PM	Interviewed re: project	See report
Mr. OO. PP. Blue	14299 St. Peter St., New York, N.Y.	555-0123	12/1/55	3:00 PM	4:30 PM	Interviewed re: project	See report
Mr. QQ. RR. Yellow	14601 St. Paul St., New York, N.Y.	555-4567	12/2/55	10:00 AM	11:30 AM	Interviewed re: project	See report
Mr. SS. TT. Purple	14903 St. James St., New York, N.Y.	555-8901	12/3/55	2:00 PM	3:30 PM	Interviewed re: project	See report
Mr. UU. VV. Pink	15205 St. John St., New York, N.Y.	555-2345	12/4/55	9:00 AM	10:30 AM	Interviewed re: project	See report
Mr. WW. XX. Brown	15507 St. George St., New York, N.Y.	555-6789	12/5/55	11:00 AM	12:30 PM	Interviewed re: project	See report
Mr. YY. ZZ. Green	15809 St. Marks St., New York, N.Y.	555-0123	12/6/55	1:00 PM	2:30 PM	Interviewed re: project	See report
Mr. AA. BB. White	16111 St. Nicholas St., New York, N.Y.	555-4567	12/7/55	3:00 PM	4:30 PM	Interviewed re: project	See report
Mr. CC. DD. Black	16413 St. Peter St., New York, N.Y.	555-8901	12/8/55	10:00 AM	11:30 AM	Interviewed re: project	See report
Mr. EE. FF. Blue	16715 St. Paul St., New York, N.Y.	555-2345	12/9/55	2:00 PM	3:30 PM	Interviewed re: project	See report
Mr. GG. HH. Yellow	17017 St. James St., New York, N.Y.	555-6789	12/10/55	9:00 AM	10:30 AM	Interviewed re: project	See report
Mr. II. JJ. Purple	17319 St. John St., New York, N.Y.	555-0123	12/11/55	11:00 AM	12:30 PM	Interviewed re: project	See report
Mr. KK. LL. Pink	17621 St. George St., New York, N.Y.	555-4567	12/12/55	1:00 PM	2:30 PM	Interviewed re: project	See report
Mr. MM. NN. Brown	17923 St. Marks St., New York, N.Y.	555-8901	12/13/55	3:00 PM	4:30 PM	Interviewed re: project	See report
Mr. OO. PP. Green	18225 St. Nicholas St., New York, N.Y.	555-2345	12/14/55	10:00 AM	11:30 AM	Interviewed re: project	See report
Mr. QQ. RR. White	18527 St. Peter St., New York, N.Y.	555-6789	12/15/55	2:00 PM	3:30 PM	Interviewed re: project	See report
Mr. SS. TT. Black	18829 St. Paul St., New York, N.Y.	555-0123	12/16/55	9:00 AM	10:30 AM	Interviewed re: project	See report
Mr. UU. VV. Blue	19131 St. James St., New York, N.Y.	555-4567	12/17/55	11:00 AM	12:30 PM	Interviewed re: project	See report
Mr. WW. XX. Yellow	19433 St. John St., New York, N.Y.	555-8901	12/18/55	1:00 PM	2:30 PM	Interviewed re: project	See report
Mr. YY. ZZ. Purple	19735 St. George St., New York, N.Y.	555-2345	12/19/55	3:00 PM	4:30 PM	Interviewed re: project	See report
Mr. AA. BB. Pink	20037 St. Marks St., New York, N.Y.	555-6789	12/20/55	10:00 AM	11:30 AM	Interviewed re: project	See report
Mr. CC. DD. Brown	20339 St. Nicholas St., New York, N.Y.	555-0123	12/21/55	2:00 PM	3:30 PM	Interviewed re: project	See report
Mr. EE. FF. Green	20641 St. Peter St., New York, N.Y.	555-4567	12/22/55	9:00 AM	10:30 AM	Interviewed re: project	See report
Mr. GG. HH. White	20943 St. Paul St., New York, N.Y.	555-8901	12/23/55	11:00 AM	12:30 PM	Interviewed re: project	See report
Mr. II. JJ. Black	21245 St. James St., New York, N.Y.	555-2345	12/24/55	1:00 PM	2:30 PM	Interviewed re: project	See report
Mr. KK. LL. Blue	21547 St. John St., New York, N.Y.	555-6789	12/25/55	3:00 PM	4:30 PM	Interviewed re: project	See report
Mr. MM. NN. Yellow	21849 St. George St., New York, N.Y.	555-0123	12/26/55	10:00 AM	11:30 AM	Interviewed re: project	See report
Mr. OO. PP. Purple	22151 St. Marks St., New York, N.Y.	555-4567	12/27/55	2:00 PM	3:30 PM	Interviewed re: project	See report
Mr. QQ. RR. Pink	22453 St. Nicholas St., New York, N.Y.	555-8901	12/28/55	9:00 AM	10:30 AM	Interviewed re: project	See report
Mr. SS. TT. Brown	22755 St. Peter St., New York, N.Y.	555-2345	12/29/55	11:00 AM	12:30 PM	Interviewed re: project	See report
Mr. UU. VV. Green	23057 St. Paul St., New York, N.Y.	555-6789	12/30/55	1:00 PM	2:30 PM	Interviewed re: project	See report
Mr. WW. XX. White	23359 St. James St., New York, N.Y.	555-0123	12/31/55	3:00 PM	4:30 PM	Interviewed re: project	See report
Mr. YY. ZZ. Black	23661 St. John St., New York, N.Y.	555-4567	1/1/56	10:00 AM	11:30 AM	Interviewed re: project	See report
Mr. AA. BB. Blue	23963 St. George St., New York, N.Y.	555-8901	1/2/56	2:00 PM	3:30 PM	Interviewed re: project	See report
Mr. CC. DD. Yellow	24265 St. Marks St., New York, N.Y.	555-2345	1/3/56	9:00 AM	10:30 AM	Interviewed re: project	See report
Mr. EE. FF. Purple	24567 St. Nicholas St., New York, N.Y.	555-6789	1/4/56	11:00 AM	12:30 PM	Interviewed re: project	See report
Mr. GG. HH. Pink	24869 St. Peter St., New York, N.Y.	555-0123	1/5/56	1:00 PM	2:30 PM	Interviewed re: project	See report
Mr. II. JJ. Brown	25171 St. Paul St., New York, N.Y.	555-4567	1/6/56	3:00 PM	4:30 PM	Interviewed re: project	See report
Mr. KK. LL. Green	25473 St. James St., New York, N.Y.	555-8901	1/7/56	10:00 AM	11:30 AM	Interviewed re: project	See report
Mr. MM. NN. White	25775 St. John St., New York, N.Y.	555-2345	1/8/56	2:00 PM	3:30 PM	Interviewed re: project	See report
Mr. OO. PP. Black	26077 St. George St., New York, N.Y.	555-6789	1/9/56	9:00 AM	10:30 AM	Interviewed re: project	See report
Mr. QQ. RR. Blue	26379 St. Marks St., New York, N.Y.	555-0123	1/10/56	11:00 AM	12:30 PM	Interviewed re: project	See report
Mr. SS. TT. Yellow	26681 St. Nicholas St., New York, N.Y.	555-4567	1/11/56	1:00 PM	2:30 PM	Interviewed re: project	See report
Mr. UU. VV. Purple	26983 St. Peter St., New York, N.Y.	555-8901	1/12/56	3:00 PM	4:30 PM	Interviewed re: project	See report
Mr. WW. XX. Pink	27285 St. Paul St., New York, N.Y.	555-2345	1/13/56	10:00 AM	11:30 AM	Interviewed re: project	See report
Mr. YY. ZZ. Brown	27587 St. James St., New York, N.Y.	555-6789	1/14/56	2:00 PM	3:30 PM	Interviewed re: project	See report
Mr. AA. BB. Green	27889 St. John St., New York, N.Y.	555-0123	1/15/56	9:00 AM	10:30 AM	Interviewed re: project	See report
Mr. CC. DD. White	28191 St. George St., New York, N.Y.	555-4567	1/16/56	11:00 AM	12:30 PM	Interviewed re: project	See report
Mr. EE. FF. Black	28493 St. Marks St., New York, N.Y.	555-8901	1/17/56	1:00 PM	2:30 PM	Interviewed re: project	See report
Mr. GG. HH. Blue	28795 St. Nicholas St., New York, N.Y.	555-2345	1/18/56	3:00 PM	4:30 PM	Interviewed re: project	See report
Mr. II. JJ. Yellow	29097 St. Peter St., New York, N.Y.	555-6789	1/19/56	10:00 AM	11:30 AM	Interviewed re: project	See report
Mr. KK. LL. Purple	29399 St. Paul St., New York, N.Y.	555-0123	1/20/56	2:00 PM	3:30 PM	Interviewed re: project	See report
Mr. MM. NN. Pink	29701 St. James St., New York, N.Y.	555-4567	1/21/56	9:00 AM	10:30 AM	Interviewed re: project	See report
Mr. OO. PP. Brown	30003 St. John St., New York, N.Y.	555-8901	1/22/56	11:00 AM	12:30 PM	Interviewed re: project	See report
Mr. QQ. RR. Green	30305 St. George St., New York, N.Y.	555-2345	1/23/56	1:00 PM	2:30 PM	Interviewed re: project	See report
Mr. SS. TT. White	30607 St. Marks St., New York, N.Y.	555-6789	1/24/56	3:00 PM	4:30 PM	Interviewed re: project	See report
Mr. UU. VV. Black	30909 St. Nicholas St., New York, N.Y.	555-0123	1/25/56	10:00 AM	11:30 AM	Interviewed re: project	See report
Mr. WW. XX. Blue	31211 St. Peter St., New York, N.Y.	555-4567	1/26/56	2:00 PM	3:30 PM	Interviewed re: project	See report
Mr. YY. ZZ. Yellow	31513 St. Paul St., New York, N.Y.	555-8901	1/27/56	9:00 AM	10:30 AM	Interviewed re: project	See report
Mr. AA. BB. Purple	31815 St. James St., New York, N.Y.	555-2345	1/28/56	11:00 AM	12:30 PM	Interviewed re: project	See report
Mr. CC. DD. Pink	32117 St. John St., New York, N.Y.	555-6789	1/29/56	1:00 PM	2:30 PM	Interviewed re: project	See report
Mr. EE. FF. Brown	32419 St. George St., New York, N.Y.	555-0123	1/30/56	3:00 PM	4:30 PM	Interviewed re: project	See report
Mr. GG. HH. Green	32721 St. Marks St., New York, N.Y.	555-4567	1/31/56	10:00 AM	11:30 AM		



Table 9.- Drillers' logs of wells in Lamb County, Tex.

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well A-20							
Owner: H. R. Haberer, Jr. Driller: H. P. Price.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	3	3	Rock .....	2	70		
Caliche .....	5	8	Sand, rock .....	6	76		
Clay, sandy .....	30	38	Sand, water .....	14	90		
Sand, rock .....	4	42	Sand and clay .....	12	102		
Sand, water .....	12	54	Sand, water .....	17	119		
Clay .....	6	60	Clay, red .....	2	121		
Sand .....	8	68					
Well A-31							
Owner: -- Haley. Driller: A. B. Hayes.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	3	3	Sand, red, water .....	11	71		
Clay, white and brown .....	26	29	Clay, gray .....	16	87		
Sand, water .....	11	40	Sand, white, water .....	7	94		
Clay, brown .....	20	60	Sand, brown and white .....	6	100		
Well A-41							
Owner: R. D. and R. T. Procure. Driller: R. F. Davis.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	3	3	Clay .....	10	90		
Caliche .....	22	25	Sand, coarse-grained, and gravel .....	10	100		
Clay, red .....	4	29	Clay .....	3	103		
Sand, white .....	21	50	Sand and gravel .....	4	107		
Clay, brown .....	5	55	Clay .....	1	108		
Sand, red .....	25	80	Sand, coarse-grained, and gravel .....	12	120		
Well A-59							
Owner: Ewing Halsell. Driller: H. P. Price.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	4	4	Sandstone .....	6	92		
Caliche .....	12	16	Sand, water .....	52	144		
Clay, sandy .....	12	28	Clay .....	7	151		
Rock .....	3	31	Sand, water .....	14	165		
Sand, water .....	12	43	Rock .....	8	173		
Rock .....	2	45	Sand, water .....	7	180		
Sand, water .....	41	86					

Table 9.- Drillers' logs of wells in Lamb County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well A-64					
Owner: Ewing Halsell. Driller: M. A. Patton.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	3	3	Clay .....	12	105
Caliche .....	7	10	Sand .....	31	136
Clay .....	10	20	Sand and gravel .....	22	158
Sand, water .....	15	35	Rock .....	3	161
Clay .....	55	90	Gravel .....	23	184
Sand .....	3	93			
Well A-65					
Owner: V. D. Coker. Driller: John Whitfield.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	3	3	Sandrock, hard .....	4	69
Caliche .....	18	21	Clay, gray, and sand .....	9	78
Sand, milky .....	3	24	Rock, white, water .....	20	98
Clay, white .....	3	27	Clay, red .....	1	99
Sand, red .....	15	42	Clay, sandy, red .....	5	104
Sand, light-red .....	23	65	Clay, red .....	2	106
Well B-14					
Owner: F. D. Clayton. Driller: Green Machinery Co.					
Quaternary and Tertiary, undifferentiated:					
Caliche .....	20	20	Rock, soft .....	2	90
Sand and clay .....	15	35	Sand, gray .....	25	115
Clay, hard .....	15	50	Sand .....	55	170
Clay, and rock .....	25	75	Sand and gravel .....	30	200
Sand .....	13	88			
Well B-26					
Owner: W. H. Williams. Driller: Green Machinery Co.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	4	4	Rock .....	7	122
Caliche, rocky .....	58	62	Clay and rock .....	33	155
Sand, coarse, red .....	43	105	Sand, fine, and rock .....	40	195
Sand, coarse, and rock .....	10	115	Sand, coarse, and gravel .....	21	216

Table 9.- Drillers' logs of wells in Lamb County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well B-43							
Owner: A. C. Gettys. Driller: M. A. Patton.							
Quaternary and Tertiary, undifferentiated:							
Soil	4	4	Sand and clay	17	128		
Clay	6	10	Rock	6	134		
Sand, red	8	18	Gravel, sandy	6	140		
Clay	24	42	Clay	12	152		
Sand, red	6	48	Sand	48	200		
Clay	27	75	Clay	8	208		
Sand, water	11	86	Sand	13	221		
Sandrock	3	89	Gravel	15	236		
Sand	22	111					
Well B-47							
Owner: W. H. Jones. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil	5	5	Clay, hard	15	110		
Clay	15	20	Clay, hard, and rock	15	125		
Clay and rocks	30	50	Sand, good	30	155		
Clay, soft	15	65	Sand	60	215		
Sand, good	15	80	Sand and gravel	10	225		
Clay and rocks	15	95	Triassic: Clay	5	230		
Well B-52							
Owner: Mrs. Ruby Hodge. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil	5	5	Sand	16	115		
Clay and caliche	63	68	Rock	2	117		
Sand	28	96	Clay and shale	25	142		
Rock	3	99	Sand and gravel	78	220		
Well B-56							
Owner: J. Boseman. Driller: Bradford Supply Co. Reported altitude 3757.34 feet.							
Quaternary and Tertiary, undifferentiated:							
Soil	6	6	Sand, clayey	3	69		
Caliche	10	16	Clay	12	81		
Sandstone	6	22	Sand	31	112		
Sand, medium	8	30	Rock	3	115		
Caliche	12	42	Sand	97	212		
Clay	12	54	Sand and gravel	18	230		
Rock, clayey	12	66	Gravel, good water	14	244		

Table 9.- Drillers' logs of wells in Lamb County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well B-57					
Owner: H. F. Hodge. Driller: Green Machinery Co. Reported altitude 3750.06 feet.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	4	4	Sand .....	8	153
Shale .....	31	35	Sandrock .....	10	163
Clay and shale .....	40	75	Clay .....	15	178
Rock, soft .....	4	79	Sand and gravel .....	55	233
Sand .....	33	112	Rock .....	1	234
Rock, hard .....	33	145			
Well B-87					
Owner: John Laing. Driller: Leo Koger.					
Quaternary and Tertiary, undifferentiated.					
Soil .....	2	2	Caliche and sand .....	11	62
Rock .....	1	3	Clay, red .....	6	68
Sand and red clay .....	17	20	Sand, red, water .....	13	81
Caliche .....	17	37	Clay, red .....	11	92
Sand, red, water .....	14	51	Pack sand .....	12	104
Well B-98					
Owner: W. O. Wood. Driller: Bud Gibbon.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	6	6	Clay .....	7	109
Caliche .....	39	45	Sand .....	13	122
Clay .....	10	55	Rock .....	4	126
Caliche .....	10	65	Sand .....	14	140
Caliche, rock .....	10	75	Clay .....	15	155
Sand .....	27	102	Sand and gravel .....	13	168
Well B-102					
Owner: J. W. Kelly. Driller: Green Machinery Co.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	5	5	Rock .....	2	120
Caliche .....	15	20	Sand .....	28	148
Clay and caliche .....	30	50	Clay .....	7	155
Clay .....	8	58	Sand .....	15	170
Sand .....	7	65	Sand and shale .....	15	185
Sand and shale .....	15	80	Sand and gravel .....	30	215
Sand .....	38	118			

Table 9.- Drillers' logs of wells in Lamb County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well B-103							
Owner: Carl Seymour. Driller: S. J. Tarkenton.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	3	3	Rock, flint .....	5	80		
Caliche .....	47	50	Clay, red .....	10	90		
Sand, dry .....	10	60	Sand, water .....	30	120		
Clay, red .....	10	70	Clay, red .....	10	130		
Sand, water .....	5	75	Sand, water .....	20	150		
Well B-118							
Owner: A. E. Wheatley. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	5	5	Clay and rock .....	5	70		
Caliche .....	15	20	Sand .....	25	95		
Clay .....	15	35	Clay, joint, and rock .....	15	110		
Clay, soft .....	15	50	Sand, red, fine .....	60	170		
Rock and clay .....	15	65	Sand, coarse, and gravel .....	30	200		
Well B-122							
Owner: Roy Woods. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	6	6	Sand and shale .....	19	95		
Caliche .....	8	14	Rock .....	8	103		
Clay .....	10	24	Packsand, hard .....	25	128		
Sand, dry .....	8	32	Sand and shale .....	18	146		
Shale .....	26	58	Sand .....	38	184		
Sand .....	18	76	Sand and gravel .....	36	220		
Well B-138							
Owner: A. W. Gover. Driller: Bud Gibbons.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	5	5	Rock .....	4	54		
Caliche and sand .....	21	26	Sand .....	16	70		
Rock .....	2	28	Sand, tight .....	30	100		
Sand, dry .....	14	42	Rock .....	5	105		
Rock .....	2	44	Sand .....	47	152		
Sand .....	6	50					

Table 9.- Drillers' logs of wells in Lamb County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well B-158					
Owner: Virgil Lewis. Driller: Consolidated Oil & Gas Co.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	12	12	Clay .....	17	125
Caliche .....	33	45	Sand .....	15	140
Rock .....	7	52	Sand and shale .....	25	165
Sand .....	18	70	Sand .....	8	173
Shale .....	38	108			
Well B-165					
Owner: Southwestern Public Service Co. Driller: D. L. McDonald. Reported altitude 3685.95 feet.					
Quaternary and Tertiary, undifferentiated:					
Sand, clayey, red .....	20	20	Sand, red .....	8	130
Caliche .....	23	43	Sand, clayey and gravel .....	16	146
Sand, clayey, red .....	27	70	Clay, sandy .....	4	150
Sand, clayey, gray .....	40	110	Sand and gravel, clean, and clay hills .....	40	190
Sand, red .....	6	116	Triassic: Clay, red .....	10	200
Clay, red .....	6	122			
Well B-166					
Owner: Southwestern Public Service Co. Driller: D. L. McDonald. Reported altitude 3662.87 feet.					
Quaternary and Tertiary, undifferentiated:					
Sand .....	4	4	Sand and gravel .....	12	128
Caliche, and clay, hard .....	16	20	Sand and gravel and sandstone stringers .....	12	140
Caliche .....	12	32	Sand and gravel .....	10	150
Caliche and sand .....	13	45	Sand and gravel and clay streaks .....	35	185
Clay, sandy .....	5	50	Sand and gravel and clay .....	6	191
Sand and clay .....	20	70	Triassic: Red beds .....	11	202
Sand and clay, and sandstone stringers .....	25	95			
Sand and clay .....	13	108			
Sand and a little gravel .....	8	116			
Well B-167					
Owner: Southwestern Public Service Co. Driller: D. L. McDonald. Reported altitude 3674.1 feet.					
Quaternary and Tertiary, undifferentiated:					
Sand, clayey .....	15	15	Sand and gravel .....	21	152
Caliche .....	35	50	Sand, fine, and gravel, loose formation; caves .....	15	167
Sand, red, muddy .....	10	60	Clay, brown .....	1	168
Sand, red, clean .....	20	80	Sand, fine, gray .....	7	175
Sand, red, soft, and pebbles; loose formation, water-bearing .....	11	91	Sand, coarse, and gravel, water	25	200
Sandstone, hard .....	1	92	Triassic: Red beds .....	7	207
Sand, red, and pebbles, water-bearing	20	112			
Clay, sandy, white .....	13	125			
Rock, white, sand and gravel .....	6	131			



Table 9.- Drillers' logs of Lamb County--Continued

Thickness (feet)		Depth (feet)	Thickness (feet)		Depth (feet)
Well B-168					
Owner: Southwestern Public Service Co. Driller: D. L. McDonald. Reported altitude 3676.3 feet.					
Quaternary and Tertiary, undifferentiated:					
Sand, clayey .....	3	3	Clay, red .....	3	138
Clay, sandy .....	22	25	Sand, soft, and clay balls ...	6	144
Caliche .....	20	45	Sand and gravel .....	11	155
Sand, clayey, red .....	15	60	Clay, red .....	1	156
Sand, clayey, gray .....	20	80	Sand and gravel .....	33	189
Sand, red, and sand pebbles .....	5	85	Triassic: Red beds .....	1	190
Sand, clayey, red .....	10	95			
Clay, sandy, white .....	10	105			
Sand, clayey, sand pebbles and white sandstone .....	30	135			
Well B-169					
Owner: Southwestern Public Service Co. Driller: D. L. McDonald. Reported altitude 3687.5 feet.					
Quaternary and Tertiary, undifferentiated:					
Sand .....	4	4	Sand and clay .....	10	120
Caliche and clay .....	53	57	Sand and clay, and caliche ..	10	130
Sand and caliche .....	10	67	Sand and gravel .....	60	190
Sand, fine, red .....	13	80	Triassic: Red beds .....	3	193
Sand and clay stringers .....	30	110			
Well B-170					
Owner: Southwestern Public Service Co. Driller: D. L. McDonald. Reported altitude 3676.65 feet.					
Quaternary and Tertiary, undifferentiated:					
Soil, sandy .....	3	3	Sand, white .....	13	128
Clay and sand .....	17	20	Sand, and clay stringers ....	12	140
Caliche .....	15	35	Sandstone, soft .....	10	150
Caliche and sand .....	20	55	Sand, soft .....	10	160
Sand .....	10	65	Sand and gravel .....	25	185
Sand, fine, red .....	10	75	Sand .....	16	201
Sand .....	30	105	Triassic: Clay, red .....	2	203
Sand and sandstone stringers .....	10	115			
Well B-171					
Owner: Southwestern Public Service Co. Driller: D. L. McDonald.					
Quaternary and Tertiary, undifferentiated:					
Soil, sandy .....	5	5	Sand and sandstone stringers.	10	120
Clay and caliche .....	27	32	Sand .....	10	130
Sand .....	48	80	Sand and gravel .....	20	150
Sandstone, hard .....	5	85	Sand .....	40	190
Sand .....	6	91	Sand and gravel and boulders	4	194
Sand and sandstone stringers .....	9	100	Triassic: Clay, red .....	2	196
Sand, soft .....	10	110			

Table 9.- Drillers' logs of wells in Lamb County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well B-172					
Owner: Southwestern Public Service Co. Driller: D. L. McDonald.					
Quaternary and Tertiary, undifferentiated:					
Soil and sand .....	6	6	Sand and caliche .....	10	114
Clay, red, and sand .....	14	20	Sand and white clay streaks ....	31	145
Caliche .....	10	30	Sand and gravel .....	25	170
Sand and caliche .....	10	40	Sand and gravel, hard stringers	10	180
Sand and clay .....	10	50	Sand and gravel, boulders .....	12	192
Sand, caliche and clay .....	10	60	Triassic: Clay, red .....	1	193
Sand and caliche, hard stringers ....	20	80			
Sand and caliche, and clay balls ....	24	104			
Well C-2					
Owner: O. T. Loftis. Driller: Green Machinery Co.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	3	3	Sand .....	13	93
Caliche .....	27	30	Clay and rocks .....	12	105
Sand, dry .....	12	42	Sand and rocks .....	15	120
Clay and rock .....	13	55	Rock .....	3	123
Sand, dry .....	18	73	Clay and rock .....	17	140
Clay, brown .....	5	78	Sand, fine .....	45	185
Rock .....	2	80	Sand, coarse .....	17	202
Well C-21					
Owner: F. Riley. Driller: Green Machinery Co.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	5	5	Sand rock .....	20	110
Caliche .....	15	20	Sand, good .....	15	125
Clay .....	15	35	Sand .....	15	140
Clay, soft .....	15	50	Shale, sand and rock .....	15	155
Clay, hard .....	15	65	Sand .....	15	170
Sand, dry .....	25	90	Sand and gravel .....	30	200
Well C-40					
Owner: T. C. Smith. Driller: J. T. Gaspie.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	5	5	Sand .....	30	130
Caliche .....	25	30	Sand and shale .....	25	155
Sand .....	20	50	Shale and clay .....	10	165
Shale and clay .....	15	65	Sand and shale .....	25	190
Sand, water .....	15	80	Shale and clay .....	10	200
Shale and boulders .....	5	85	Sand .....	40	240
Sand and shale .....	15	100			

Table 9.- Drillers' logs of wells in Lamb County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well C-58							
Owner: Fred Schaefer. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....		2	2	Sand, fine .....		22	107
Caliche .....		13	15	Rock .....		3	110
Clay, brown .....		20	35	Sand .....		20	130
Shale .....		15	50	Rock and sand .....		5	135
Clay .....		25	75	Shale .....		35	170
Rock .....		5	80	Sand, coarse .....		57	227
Clay and shale .....		5	85				
Well C-65							
Owner: F. E. Cook. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....		5	5	Clay .....		20	140
Caliche .....		25	30	Sand and boulders .....		25	165
Sand, dry .....		40	70	Sand, coarse .....		20	185
Clay and shale .....		10	80	Clay, sandy .....		15	200
Sand and shale .....		40	120	Sand and gravel .....		24	224
Well C-74							
Owner: Gettys Bros. Driller: H. P. Price.							
Quaternary and Tertiary, undifferentiated:							
Soil .....		4	4	Sandrock .....		4	126
Caliche .....		2	6	Sand, water .....		20	146
Clay, sandy .....		52	58	Sandrock .....		14	160
Sandrock .....		6	64	Sand, water .....		50	210
Sand, water .....		38	102	Sand and gravel, water .....		14	224
Rock .....		5	107	Sandrock .....		6	230
Sand .....		15	122				
Well C-76							
Owner: A. A. Parish.							
Quaternary and Tertiary, undifferentiated:							
Soil .....		4	4	Sand .....		125	200
Caliche .....		16	20	Rock .....		4	204
Caliche rock .....		35	55	Gravel .....		11	215
Clay .....		15	70	Sand .....		10	225
Rock .....		5	75	Gravel .....		17	242

Table 9.- Drillers' logs of wells in Lamb County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well C-85							
Owner: E. G. Gardner. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	3	3	Sand and boulders .....	32	140		
Caliche .....	5	8	Sand, fine .....	30	170		
Clay, yellow .....	15	23	Sand, coarse, and gravel .....	30	200		
Sand, dry .....	55	78	Triassic: Red beds .....	3	203		
Rock .....	20	98					
Sand, soft .....	10	108					
Well C-88							
Owner: E. W. Simmons. Driller: Earl Crabble.							
Quaternary and Tertiary, undifferentiated:							
Caliche .....	20	20	Sand and shale .....	15	125		
Sand, dry .....	15	35	Sand, gray .....	15	140		
Clay, shale and rock .....	10	45	Sand .....	15	155		
Sand .....	20	65	Sand and gravel .....	15	170		
Clay and soft rock .....	10	75	Sand, coarse, and gravel .....	30	200		
Sand .....	35	110					
Well C-111							
Owner: D. D. Coventry. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	5	5	Sand .....	15	95		
Clay .....	15	20	Sand and rock .....	15	110		
Sand, dry .....	15	35	Sand and boulders .....	15	125		
Clay .....	15	50	Sand, good .....	15	140		
Clay and rock .....	15	65	Sand .....	30	170		
Sand .....	10	75	Sand and gravel .....	30	200		
Shale and rock .....	5	80					
Well C-121							
Owner: Miss Inez Ott. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	4	4	Rock, hard .....	3	123		
Caliche .....	36	40	Sand and rocks .....	17	140		
Sand, red .....	10	50	Clay .....	15	155		
Clay, brown .....	10	60	Sand .....	8	163		
Sand, fine .....	45	105	Clay, red .....	7	170		
Rocks .....	15	120	Sand, coarse .....	57	227		

Table 9.- Drillers' logs of wells in Lamb County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well C-124							
Owner: Steve D. Struve. Driller: Bradford Supply Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	3	3	Clay .....	9	97		
Caliche .....	13	16	Sand .....	19	116		
Clay .....	8	24	Rock .....	4	120		
Sand, red .....	18	42	Sand .....	20	140		
Clay .....	23	65	Rock .....	6	146		
Rock .....	3	68	Sand .....	34	180		
Sand, water .....	12	80	Clay .....	8	188		
Caliche rock .....	8	88	Sand, coarse .....	23	211		
Well C-135							
Owner: C. E. Brock. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	5	5	Rock .....	5	105		
Caliche .....	20	25	Sand .....	5	110		
Clay and shale .....	35	60	Rock .....	5	115		
Clay and boulders .....	15	75	Clay and boulders .....	10	125		
Sand .....	25	100	Sand and boulders .....	77	202		
Well C-137							
Owner: W. O. Watson. Driller: Peerless Pump Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	4	4	Sandrock, hard .....	4	124		
Clay, sand, red .....	1	5	Clay and sandrock .....	6	130		
Packsand .....	15	20	Sand, water .....	30	160		
Sandrock .....	4	24	Shale, red .....	11	171		
Sand and sandrock .....	36	60	Sandrock .....	9	180		
Clay .....	14	74	Gravel, water .....	23	203		
Sandrock .....	16	90	Triassic: Clay, red .....	2	205		
Sand, water .....	30	120					
Well C-146							
Owner: H. E. Bledsoe. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	5	5	Clay and boulders .....	10	95		
Sand, dry, and caliche .....	10	15	Sandrock .....	15	110		
Clay, yellow .....	10	25	Sand and small rock .....	15	125		
Clay, joint, red .....	10	35	Sand, good .....	15	140		
Clay and rock .....	40	75	Clay and rocks .....	15	155		
Sand .....	10	85	Sand, good .....	45	200		

Table 9.- Drillers' logs of wells in Lamb County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well C-179					
Owner: Mrs. G. C. Bearden, Sr. Driller: Peerless Pump Co.					
Quaternary and Tertiary, undifferentiated:					
Surface and red sand	38	38	Sand	10	120
Sand and clay	14	52	Rock	3	123
Sand, water	53	105	Sand	5	128
Sand	2	107	Sand and clay	23	151
Rock	3	110	Sand, water	49	200
Well C-190					
Owner: J. W. King. Driller: Peerless Pump Co.					
Quaternary and Tertiary, undifferentiated:					
Soil	5	5	Shale, hard	16	100
Caliche	25	30	Clay, red	14	114
Shale and clay	30	60	Sand, fine	31	145
Sand, water	20	80	Sand and gravel	55	200
Rock	4	84			
Well C-199					
Owner: R. E. Chitwood. Driller: Consolidated Oil & Gas Co.					
Quaternary and Tertiary, undifferentiated:					
Soil	2	2	Rock, broken	11	105
Caliche and shale	56	58	Rock	4	109
Sand	5	63	Sand	118	118
Sand and shale	28	91	Shale and shells	15	133
Rock	3	94	Sand and shale	70	203
Well C-219					
Owner: R. H. McAfee. Driller: Green Machinery Co.					
Quaternary and Tertiary, undifferentiated:					
No record	50	50	Sand and rock	12	135
Sand, dry	34	84	Sand, fine	35	170
Sand with streaks of rock	4	88	Sand, coarse, and some gravel	33	203
Sand, fine, water	35	123	Triassic: Clay, red	3	206
Well C-226					
Owner: Ray Montgomery. Driller: Green Machinery Co.					
Quaternary and Tertiary, undifferentiated:					
Soil	5	5	Sand	12	80
Caliche	15	20	Shale	15	95
Clay	15	35	Sand	30	125
Sand	15	50	Clay	7	132
Shale	15	65	Sand and gravel	53	185
Rock	3	68	Gravel	30	215



Table 9.- Drillers' logs of wells in Lamb County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well C-230					
Owner: A. C. Simmons. Driller: Green Machinery Co.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	5	5	Sand and boulders .....	25	130
Caliche .....	45	30	Shale, red .....	15	145
Sand, dry .....	20	70	Sand and boulders .....	63	208
Sand, water .....	35	105			
Well C-245					
Owner: A. J. Walling. Driller: Peerless Pump Co.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	5	5	Shale and boulders .....	20	100
Caliche .....	25	30	Sand and boulders .....	25	125
Shale, red, and clay .....	35	65	Sand, gray .....	50	175
Shale and sand .....	15	80	Sand and white shale .....	25	200
Well C-250					
Owner: Moses & Beason. Driller: S. Scoggins.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	5	5	Sand and boulders .....	30	130
Caliche .....	20	25	Clay and boulders .....	5	135
Shale and clay .....	35	60	Sand .....	40	175
Sand .....	25	85	Sand and some boulders .....	29	204
Clay .....	15	100			
Well C-262					
Owner: D. C. Sumner. Driller: B. W. Fish.					
Quaternary and Tertiary, undifferentiated:					
Surface clay and sand .....	35	35	Sand, coarse .....	29	130
Sand and caliche .....	44	79	Clay, red .....	37	167
Sand, coarse, and rock .....	22	101	Sand, coarse .....	59	226
Well D-3					
Owner: John Meekma. Driller: -- Hollis.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	4	4	Rock .....	5	88
Caliche .....	21	25	Sand, water .....	17	105
Shale and sand .....	35	60	Shale and sand .....	65	170
Sand, water .....	10	70	Rock .....	4	174
Sand .....	13	83	Sand, water .....	26	200

Table 9.- Drillers' logs of wells in Lamb County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well D-36							
Owner: Raymond Carson. Driller: Dennis Henager.							
Quaternary and Tertiary, undifferentiated:							
Soil	4	4	Sandrock	7	97		
Sand, red	4	8	Sand and boulders	19	116		
Caliche	10	18	Clay, red	41	157		
Shale	37	55	Sand	67	224		
Sand	35	90					
Well D-42							
Owner: Leo Smith. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil	3	3	Sand, dry	10	95		
Caliche	5	8	Sand, water	15	110		
Rock and clay	67	75	Sand and clay	40	150		
Sand, dry	5	80	Sand, water	75	225		
Rock	5	85					
Well D-45							
Owner: H. B. Carson. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil	3	3	Clay	20	160		
Caliche	25	28	Shale	12	172		
Sand, red	32	60	Sand	15	187		
Rock	18	78	Clay	13	200		
Sand	12	90	Sand	27	227		
Rocks	4	94	Sand and gravel	13	240		
Rocks and sand	46	140					
Well D-47							
Owner: G. T. Sides. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil	5	5	Sand and shale	6	110		
Caliche	15	20	Sand	15	125		
Clay, red	10	30	Rock	5	130		
Sand, dry	10	40	Shale and clay	5	135		
Shale and clay	15	55	Sand and shale	15	150		
Sand, dry, and shale	15	70	Shale and clay	10	160		
Rock	3	73	Sand and shale	20	180		
Sand	12	85	Sand	15	195		
Sand and boulders	5	90	Clay and boulders	5	200		
Sand	10	100	Sand	10	210		
Rock	4	104					

Table 9.- Drillers' logs of wells in Lamb County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well D-51							
Owner: J. O. Reed. Driller: A. W. Fish.							
Quaternary and Tertiary, undifferentiated:							
Surface .....	7	7	Sand, soft .....	28	140		
Caliche, sand, and clay streaks .....	18	25	Sand, coarse .....	2	142		
Sand and clay streaks .....	20	45	Sand, tight .....	2	144		
Sand, soft, broken .....	59	104	Sand, soft, broken .....	24	168		
Sand, coarse .....	2	106	Sand, soft .....	31	199		
Sand .....	6	112					
Well D-57							
Owner: Roberson Bros.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	4	4	Clay .....	9	167		
Caliche .....	6	10	Sand, water .....	23	190		
Sand, dry .....	81	91	Clay .....	9	199		
Sand, broken, and water .....	21	112	Sandrock .....	2	201		
Clay .....	13	125	Sand and gravel .....	29	230		
Sandrock .....	2	127	Sandrock .....	2	232		
Sand, water .....	31	158					
Well D-60							
Owner: A. C. Brigance.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	5	5	Sand, water .....	16	120		
Caliche .....	25	30	Packsand .....	30	150		
Shale and clay .....	28	58	Shale and sand .....	45	195		
Sand, water .....	17	75	Gravel, water .....	37	232		
Sand .....	3	78	Triassic: Clay, red .....	1	233		
Rock .....	26	104					
Well D-67							
Owner: J. A. Boverie. Driller: Bradford Supply Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	4	4	Rock .....	4	94		
Caliche .....	8	12	Sand, water .....	34	128		
Sand, dry .....	23	35	Clay .....	9	137		
Clay .....	40	75	Sand, water .....	37	174		
Shale .....	5	80	Clay .....	16	190		
Sand, water .....	10	90	Gravel, water .....	22	212		

Table 9.- Drillers' logs of wells in Lamb County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well D-77					
Owner: Earl Holly. Driller: Consolidated Oil & Gas Co.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	4	4	Sand, water .....	17	103
Caliche .....	27	31	Sandrock .....	27	130
Clay .....	39	70	Sand .....	27	157
Sand, water .....	6	76	Sand, water .....	53	210
Clay and sand .....	10	86			
Well D-96					
Owner: J. C. George. Driller: Consolidated Oil & Gas Co.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	5	5	Rock .....	5	130
Caliche .....	60	65	Sand .....	20	150
Sand .....	35	100	Shale .....	25	175
Shale .....	25	125	Sand and boulders .....	23	198
Well D-110					
Owner: H. A. Bledsoe. Driller: Green Machinery Co.					
Quaternary and Tertiary, undifferentiated:					
Caliche .....	20	20	Clay .....	10	140
Clay .....	15	35	Sand .....	30	170
Clay and shale .....	30	65	Sand, gray .....	15	185
Clay and rock .....	5	70	Sand and gravel .....	23	208
Sand .....	60	130			
Well D-112					
Owner: C. E. Bley. Driller: Green Machinery Co.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	4	4	Rock .....	6	126
Caliche .....	26	30	Clay .....	29	155
Sand .....	10	40	Sand .....	35	190
Clay, brown .....	32	72	Clay .....	8	198
Sand .....	33	105	Sand, coarse .....	27	225
Clay and rock .....	15	120	Triassic: Clay .....	3	228
Well D-114					
Owner: R. B. Crisp. Driller: Green Machinery Co.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	5	5	Sand, water .....	45	105
Caliche .....	20	25	Clay, red .....	10	115
Clay and shale .....	25	50	Sand, fine .....	70	185
Clay .....	10	60	Sand, coarse .....	15	200

Table 9.- Drillers' logs of wells in Lamb County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well D-118							
Owner: F. E. Dougherty. Driller: Peerless Pump Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....		3	3	Sand, red .....		44	105
Clay, brown .....		7	10	Sand and clay .....		45	150
Sand, red, dry .....		9	19	Sand, red, and gravel .....		53	203
Clay, brown .....		42	61				
Well F-1							
Owner: Southwestern Public Service Co. Driller: D. L. McDonald. Reported altitude 3688.56 feet.							
Quaternary and Tertiary, undifferentiated:							
Clay, sandy, gray .....		6	6	Clay, white, and rock .....		20	140
Caliche .....		44	50	Sand, clayey, fine .....		10	150
Clay, sandy .....		10	60	Sand and gravel .....		20	170
Clay, sandy, red .....		10	70	Sand, clayey, gray .....		12	182
Sand, clayey, gray .....		50	120	Triassic: Red beds .....		3	185
Well F-2							
Owner: Southwestern Public Service Co. Driller: D. L. McDonald. Reported altitude 3671.2 feet.							
Quaternary and Tertiary, undifferentiated:							
Sand, clayey .....		20	20	Sand and gravel and clay balls		9	130
Caliche .....		34	54	Sand, hard, cemented and gravel		2	132
Sand, clayey, red .....		17	71	Clay, reddish .....		9	141
Sand, clear, red .....		21	92	Sand and gravel and clay balls		22	163
Sandstone .....		4	96	Sand, clayey, fine .....		7	170
Clay, sandy, gray .....		5	101	Clay streaks, reddish .....		3	173
Sand, clayey, gray and sandstone pebbles .....		15	116	Sand, clayey, fine, brown .....		32	205
Sand and gravel, and sandstone pebbles .....		5	121	Triassic: Red beds .....		2	207
Well F-3							
Owner: Southwestern Public Service Co. Driller: D. L. McDonald. Reported altitude 3660.8 feet.							
Quaternary and Tertiary, undifferentiated:							
Sand, clayey, red .....		5	5	Clay, red .....		8	138
Caliche .....		15	20	Sand and gravel .....		8	146
Clay, sandy, and sandstone .....		26	46	Sand, clayey, and gravel .....		11	157
Sand, red .....		14	60	Sand, clayey, brown .....		6	163
Sand, clayey, red .....		15	75	Sand and gravel, clean .....		14	177
Clay, sand, white .....		5	80	Clay, red .....		5	182
Sand, clayey, and sandstone pebbles		32	112	Sand and gravel .....		20	202
Sand, red .....		6	118	Triassic: Red beds .....		8	210
Sand, gravel, and sandstone pebbles		12	130				

Table 9.- Drillers' logs of wells in Lamb County,--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well F-4							
Owner: Southwestern Public Service Co. Driller: D. L. McDonald. Reported altitude 3652.8 feet.							
Quaternary and Tertiary, undifferentiated:							
Soil.....	2	2	Sand, clayey.....	9	139		
Caliche.....	23	25	Sand, clean, brown.....	9	148		
Clay, sandy.....	5	30	Sand, clayey, and gravel.....	10	158		
Sand, clayey, yellow.....	23	53	Sand, clayey, brown.....	12	170		
Sand, clayey, red.....	48	101	Sand, brown, and gravel.....	18	188		
Sand, hard, and gravel.....	29	130	Triassic: Red beds.....	8	196		
Well F-5							
Owner: Southwestern Public Service Co. Driller: D. L. McDonald. Reported altitude 3647.3 feet.							
Quaternary and Tertiary, undifferentiated:							
Sand.....	5	5	Sandstone.....	1	47		
Sand, clayey.....	5	10	Sand, clayey, gray.....	73	120		
Clay, sandy.....	16	26	Sand and gravel, gray.....	28	148		
Sand, clayey.....	13	39	Sand and gravel.....	12	160		
Clay, sandy.....	4	43	Triassic: Red beds.....	2	162		
Sand, clayey.....	3	46					
Well F-6							
Owner: Southwestern Public Service Co. Driller: D. L. McDonald. Reported altitude 3645.66 feet.							
Quaternary and Tertiary, undifferentiated:							
Soil, sandy.....	3	3	Sand, clayey, gray.....	57	122		
Clay, sandy.....	3	6	Sand and gravel, cemented,				
Clay, sandy, blue.....	4	10	blue and brown.....	23	145		
Clay, sandy, yellow.....	33	43	Sand, clayey, and gravel.....	17	162		
Sand, clayey, gray.....	6	49	Triassic: Red beds.....	3	165		
Sand, clayey, brown.....	16	65					
Well F-7							
Owner: Southwestern Public Service Co. Driller: D. L. McDonald. Reported altitude 3638.15 feet.							
Quaternary and Tertiary, undifferentiated:							
Sand, clayey.....	6	6	Sand and gravel, clean.....	4	118		
Caliche.....	28	34	Sand and gravel and clay balls	5	123		
Clay, sandy.....	4	38	Sand and some gravel, clean..	11	134		
Sand, clean, brown.....	20	58	Sand and gravel, clean.....	9	143		
Sand, clayey, yellow.....	13	71	Sand, gravel and clay balls..	3	146		
Clay, sandy.....	18	89	Sand, coarse, clean.....	4	150		
Clay, red.....	1	90	Sand and gravel, clean.....	22	172		
Sand, clayey, yellow.....	17	107	Sand, clayey.....	14	186		
Sand, clayey, yellow, and gravel...	7	114	Triassic: Red beds.....	3	189		



Table 9 - Drillers' logs of wells in Lamb County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well F-8							
Owner: Southwestern Public Service Co. Driller: D. L. McDonald. Reported altitude 3652.65 feet.							
Quaternary and Tertiary, undifferentiated:							
Soil, sandy .....	1	1	Clay, red .....	2	129		
Caliche .....	34	35	Sand, clayey .....	9	138		
Clay, sandy .....	8	43	Clay, red .....	7	145		
Clay, sandy, and sandstone .....	7	50	Sand and gravel .....	15	160		
Clay, yellow .....	8	58	Clay, brown .....	11	171		
Sand, clayey, pink .....	17	75	Sand, clayey, brown .....	9	180		
Sand, clayey, red .....	23	98	Sand, clayey, and gravel .....	11	191		
Sand, clayey, pink .....	14	112	Sand and gravel .....	15	206		
Sand, clayey, pink, and sandstone pebbles .....	15	127	Triassic: Red beds .....	2	208		
Well F-71							
Owner: J. W. Gosdin. Driller: -- Hornbrook.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	8	8	Sand .....	12	47		
Sand .....	7	15	Clay and broken sand .....	138	185		
Clay .....	12	27	Gravel, river .....	40	225		
Caliche .....	8	35	Triassic: Red beds .....	1	226		
Well F-86							
Owner: L. D. Halsell. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	5	5	Sand and some caliche .....	53	189		
Clay and caliche .....	71	76	Rock .....	8	197		
Sand and some caliche .....	47	123	Sand and gravel .....	40	237		
Clay .....	13	136	Triassic: Red beds .....	3	240		
Well F-107							
Owner: W. P. Holland. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	6	6	Sand .....	30	125		
Caliche .....	8	14	Clay .....	15	140		
Sand, dry .....	16	30	Shale and sand .....	25	165		
Shale .....	5	35	Shale .....	15	180		
Sand, fine .....	39	74	Sand and gravel .....	34	214		
Sand and shale .....	21	95	Triassic: Red beds .....	8	222		

Table 9.- Drillers' logs of wells in Lamb County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well F-141							
Owner: Southwestern Public Service Co. Driller: D. L. McDonald. Reported altitude 3639.2 feet.							
Quaternary and Tertiary, undifferentiated:							
No record.....	80	80	Sand and gravel.....	10	170		
Sand and gravel.....	10	90	Sand and gravel and clay ...	10	180		
Clay.....	10	100	Sand and clay.....	10	190		
Sand and gravel.....	50	150	Triassic: Clay, red.....	1	191		
Sand and gravel and clay streaks ...	10	160					
Well F-142							
Owner: Southwestern Public Service Co. Driller: D. L. McDonald. Reported altitude 3669.52 feet.							
Quaternary and Tertiary, undifferentiated:							
Soil, sandy.....	5	5	Sand and sandstone stringers	30	120		
Caliche.....	15	20	Sand and gravel.....	60	180		
Caliche, hard.....	10	30	Sand.....	10	190		
Caliche.....	10	40	Sand and gravel.....	10	200		
Sand.....	50	90	Triassic: Clay, red.....	1	201		
Well F-144							
Owner: Southwestern Public Service Co. Driller: D. L. McDonald. Reported altitude 3657.48 feet.							
Quaternary and Tertiary, undifferentiated:							
Sand.....	5	5	Sand and gravel.....	20	120		
Caliche and sand.....	25	30	Clay stringers.....	10	130		
Clay and sand.....	20	50	Sand and gravel.....	10	140		
Clay, sandy.....	10	60	Sand and gravel, hard.....	10	150		
Sand and sandstone stringers.....	10	70	Sand and gravel and clay				
Clay and sand.....	10	80	stringers.....	50	200		
Clay, red.....	10	90	Triassic: Red beds.....	5	205		
Clay and gravel.....	10	100					
Well G-10							
Owner: J. J. Moses. Driller: S. Scroggins.							
Quaternary and Tertiary, undifferentiated:							
Soil.....	5	5	Sand, good.....	30	115		
Caliche.....	20	25	Clay, red.....	10	125		
Shale and clay.....	30	55	Sand, fine.....	50	175		
Sand.....	15	70	Sand, coarse.....	37	212		
Clay and boulders.....	15	85					

Table 9.- Drillers' logs of wells in Lamb County--Continued

Thickness (feet)		Depth (feet)	Thickness (feet)		Depth (feet)
Well G-14					
Owner: C. E. Bley. Driller: Green Machinery Co.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	3	3	Sand .....	20	80
Sand, dry, and clay .....	29	32	Clay and rock .....	15	95
Caliche .....	6	38	Clay, joint, and boulders .....	15	110
Caliche, soft .....	7	45	Sand .....	30	140
Clay and shale .....	10	55	Sand and shale .....	30	170
Sand, water .....	5	60	Sand and gravel .....	38	208
Well G-19					
Owner: L. H. Green. Driller: Green Machinery Co.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	4	4	Rock, hard .....	7	91
Caliche .....	16	20	Sand, fine .....	24	115
Clay, brown .....	28	48	Clay and rock .....	20	135
Sand .....	7	55	Clay, joint .....	21	156
Rock .....	3	58	Sand, fine .....	24	180
Shale .....	5	63	Sand, coarse, and gravel ...	12	192
Sand, fine .....	21	84	Clay and rocks .....	10	202
Well G-33					
Owner: Mrs. L. McGill. Driller: Green Machinery Co.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	4	4	Shale .....	32	112
Caliche .....	5	9	Sand .....	8	120
Clay .....	26	35	Shale, hard .....	25	145
Shale .....	25	60	Sand .....	75	220
Sand .....	15	75	Shale, hard .....	3	223
Rock .....	5	80			
Well G-35					
Owner: Walter Rose. Driller: Green Machinery Co.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	5	5	Clay .....	13	156
Shale .....	63	68	Sand .....	22	178
Clay and shale .....	48	116	Clay and some shale .....	14	192
Sand .....	27	143	Sand and gravel .....	64	256

Table 9.- Drillers' logs of wells in Lamb County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well G-48							
Owner: Eli Young. Driller: Fred Foust.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	6	6	Sand, water .....	12	108		
Clay and caliche .....	18	24	Shale .....	12	120		
Sand, dry .....	22	46	Sand, water .....	24	144		
Clay .....	14	60	Sand and boulders .....	30	174		
Sand, dry .....	8	68	Clay .....	20	194		
Clay and caliche .....	8	76	Sand, water .....	27	221		
Shale .....	20	96					
Well G-51							
Owner: L. L. Uselton. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	6	6	Sand and boulders .....	16	136		
Clay and caliche .....	22	28	Sand, soft .....	12	148		
Shale, hard .....	20	48	Sand and boulders .....	18	166		
Shale, white .....	20	68	Rock .....	10	176		
Sand, hard .....	24	92	Sand, coarse, and gravel .....	26	202		
Sand and boulders .....	6	98	Triassic: Clay .....	14	216		
Sand .....	10	108					
Shale .....	12	120					
Well G-54							
Owner: I. R. Cummings. Driller: C. N. Tucker.							
Quaternary and Tertiary, undifferentiated:							
Soil and caliche .....	6	6	Sand .....	35	170		
Clay, sandy .....	58	64	Clay, sandy .....	15	185		
Sand, red .....	18	82	Sandstone .....	3	188		
Sand, water .....	22	104	Sand and gravel .....	20	208		
Clay and sand .....	28	132	Triassic: Red beds .....	5	213		
Sandstone .....	3	135					
Well G-58							
Owner: C. V. Hill. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	5	5	Sand .....	26	104		
Caliche .....	7	12	Shale .....	16	120		
Sand, dry .....	8	20	Sand .....	26	146		
Clay .....	30	50	Clay .....	6	152		
Sand .....	15	65	Sand .....	30	182		
Shale .....	7	72	Rock and shale .....	4	186		
Rock .....	6	78	Sand and shale .....	6	192		

Table 9.- Drillers' logs of wells in Lamb County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well G-62							
Owner: Floyd Rogers. Driller: Consolidated Oil & Gas Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	10	10	Rock .....	5	132		
Caliche .....	20	30	Shale and sand .....	62	194		
Sand, dry .....	20	50	Rock, hard .....	4	198		
Sand, water .....	10	60	Sand .....	41	239		
Shale, gray .....	45	105	Sand and gravel .....	8	247		
Sand .....	22	127	Triassic: Red beds .....	3	250		
Well G-65							
Owner: H. G. Egenbacher. Driller: Consolidated Oil & Gas Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	4	4	Sand .....	20	130		
Caliche .....	5	9	Sand and rock .....	27	157		
Sand .....	10	19	Clay .....	10	167		
Clay and rock .....	31	50	Sand and rock .....	12	179		
Sand .....	42	92	Sand, water .....	15	194		
Rock .....	3	95	Clay, soft .....	13	207		
Clay .....	15	110	Triassic: Red beds .....	1	208		
Well G-69							
Owner: C. W. Armstrong. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	6	6	Sand, water .....	26	148		
Clay and caliche .....	20	26	Shale .....	12	160		
Sand, white .....	22	48	Sand .....	18	178		
Shale, hard .....	18	66	Clay .....	6	184		
Sand and boulders .....	32	98	Sand .....	13	197		
Caliche, hard .....	24	122	Triassic: Red beds .....	3	200		
Well G-79							
Owner: K. W. Mahaffey. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	5	5	Clay and rocks .....	17	132		
Caliche .....	40	45	Sand and rocks .....	25	157		
Clay, brown and rocks .....	25	70	Red clay .....	8	165		
Sand and rocks .....	15	85	Sand, soft .....	17	182		
Rock, hard, white .....	10	95	Sand, coarse .....	23	205		
Sand and rocks .....	20	115	Triassic: Clay, red .....	3	208		

Table 9.- Drillers' logs of wells in Lamb County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well G-92							
Owner: Wayne Cowan. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	6	6	Sand, white .....	18	98		
Clay and caliche .....	22	28	Rock .....	4	102		
Sand, red .....	12	40	Sand .....	34	136		
Sand, dry .....	16	56	Sand, fine .....	39	175		
Rock .....	8	64	Sand .....	5	180		
Sand, water .....	16	80					
Well G-102							
Owner: C. V. Hill. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	2	2	Sand .....	4	91		
Caliche .....	6	8	Rock .....	4	95		
Clay .....	17	25	Sand .....	58	153		
Shale, hard .....	18	43	Shale .....	10	163		
Clay .....	17	60	Sand and gravel .....	30	193		
Shale .....	27	87	Triassic: Shale, hard .....	4	197		
Well G-108							
Owner: B. M. Farmer. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	6	6	Clay, red .....	9	90		
Caliche .....	12	18	Shale .....	28	118		
Sand, red .....	14	32	Clay, red .....	30	148		
Clay and caliche .....	8	40	Sand, fine .....	26	174		
Sand, dry .....	8	48	Gravel, river bed .....	18	192		
Shale, hard .....	12	60	Sand, coarse .....	6	198		
Rock .....	6	66	Triassic: Red beds .....	2	200		
Sand, water .....	22	88					
Well G-111							
Owner: V. G. Martin. Driller: Buck Price.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	3	3	Rock, hard .....	9	129		
Clay, sandy .....	38	41	Sand and gravel .....	23	152		
Sandstone .....	1	42	Sand, white .....	16	168		
Sand, dry .....	33	75	Sandstone .....	10	178		
Clay .....	3	78	Sand and gravel, water .....	16	194		
Sandstone .....	12	90	Triassic: Red beds .....	8	202		
Sand, water .....	30	120					



Table 9.- Drillers' logs of wells in Lamb County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well G-134							
Owner: Mrs. S. Callen. Driller: Consolidated Oil & Gas Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	3	3	Shale, gray .....	25	165		
Caliche .....	35	38	Sand .....	15	180		
Caliche and rock .....	32	70	Sand and shale .....	21	201		
Sand .....	20	90	Sand .....	4	205		
Shale .....	20	110	Triassic: Red beds .....	1	206		
Sand and boulders .....	30	140					
Well G-158							
Owner: M. H. Qualls. Driller: A. W. Fish							
Quaternary and Tertiary, undifferentiated:							
Surface .....	7	7	Sand, coarse .....	35	130		
Caliche .....	13	20	Sand, fine, water .....	45	175		
Sand .....	40	60	Sand and coarse gravel .....	25	200		
Sand, water, and shells .....	35	95	Triassic: Clay, red .....	2	202		
Well G-176							
Owner: L. W. Sullivan. Driller: S. Thurkill.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	7	7	Rock .....	8	88		
Caliche .....	14	21	Clay, blue .....	12	100		
Sand .....	19	40	Sand, water .....	30	130		
Rock .....	23	63	Rock .....	12	142		
Sand, fine .....	7	70	Sand, water .....	35	177		
Sand, water .....	10	80	Triassic: Red beds .....	1	178		
Well G-182							
Owner: Dan Heard. Driller: T. W. Price.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	4	4	Sand, water .....	14	105		
Caliche .....	8	12	Sand and clay .....	30	135		
Clay, sand, and shale .....	47	59	Sand, water .....	28	163		
Sand .....	9	68	Clay .....	7	170		
Sand, water .....	16	84	Sand, hard .....	41	211		
Lime, sandy, hard .....	7	91					

Table 9.- Drillers' logs of wells in Lamb County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well G-184							
Owner: M. W. Wheeler. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	4	4	Rock .....	10	92		
Caliche .....	11	15	Clay .....	78	170		
Shale .....	19	34	Sand .....	18	188		
Clay .....	16	50	Clay .....	16	204		
Shale .....	14	64	Sand and gravel .....	20	224		
Clay .....	18	82					
Well G-191							
Owner: L. T. Green. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	5	5	Sand .....	9	73		
Caliche and clay .....	40	45	Clay .....	37	110		
Shale .....	19	64	Sand .....	70	180		
Well H-1							
Owner: Elbert Hooper. Driller: H. O. Boyle.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	3	3	Shale and shells .....	12	89		
Caliche and shale .....	17	20	Sand .....	9	98		
Sand, broken .....	15	35	Sand, fine-grained .....	10	108		
Rock, broken .....	25	60	Shale and sand .....	17	125		
Sand .....	4	64	Shale and shells .....	20	145		
Shale .....	8	72	Sand and shale .....	61	206		
Sand .....	5	77*					
Well H-6							
Owner: L. D. Smith. Driller: Dennis Henager.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	3	3	Sand .....	13	105		
Caliche .....	5	8	Rock .....	25	130		
Clay .....	45	53	Sand, soft .....	47	177		
Sand .....	9	62	Rock .....	4	181		
Shale .....	6	68	Sand .....	5	186		
Sand .....	19	87	Shale, hard .....	21	207		
Rock, hard .....	5	92	Sand .....	16	223		

Table 9.- Drillers' logs of wells in Lamb County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well H-18							
Owner: P. A. Nafzger. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	3	3	Clay and rock .....	12	102		
Caliche .....	42	45	Sand and rock .....	23	125		
Sand .....	10	55	Clay .....	25	150		
Rock .....	5	60	Sand, coarse-grained, and gravel	52	202		
Clay, brown .....	10	70					
Sand, coarse-grained .....	20	90					
Well H-20							
Owner: W. E. Crandall. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	5	5	Clay .....	20	70		
Caliche .....	15	20	Sand .....	85	155		
Clay .....	15	35	Sand and gravel .....	30	185		
Clay and rock .....	15	50	Sand .....	30	215		
Well H-29							
Owner: E. Hays. Driller: Consolidated Oil & Gas Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	6	6	Sand .....	20	130		
Caliche .....	59	65	Rock .....	5	135		
Sand .....	10	75	Shale .....	30	165		
Shale .....	35	110	Sand .....	38	203		
Well H-39							
Owner: P. A. Nafzger. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	6	6	Sand .....	21	95		
Sand, dry .....	19	25	Clay and boulders .....	15	110		
Caliche and clay .....	15	40	Sand and gravel .....	20	130		
Clay, brown .....	15	55	Clay, brown .....	25	155		
Caliche rock .....	15	70	Sand and gravel .....	72	227		
Sand rock .....	4	74	Triassic: Clay, hard .....	3	230		

Table 9.- Drillers' logs of wells in Lamb County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well H-54							
Owner: E. E. Givens. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	4	4	Sand, coarse-grained, and white rocks .....	22	102		
Caliche .....	41	45	Clay .....	51	153		
Clay and white rock .....	10	55	Sand, fine-grained .....	57	210		
Sand, fine-grained .....	15	70	Sand, coarse-grained .....	14	224		
Rock .....	2	72					
Clay and rock .....	8	80					
Well H-67							
Owner: G. A. Branton.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	5	5	Gravel .....	40	180		
Caliche .....	30	35	Clay .....	10	190		
Sandrock .....	35	70	Sand and gravel .....	28	218		
Clay and sand .....	45	115	Triassic: Clay .....	2	220		
Sand .....	25	140					
Well H-79							
Owner: Branton and Clark. Driller: Fred Foust.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	7	7	Red beds .....	38	118		
Caliche .....	30	37	Sand, water .....	6	124		
Shell rock .....	23	60	Red beds .....	56	180		
Unrecorded .....	13	73	Sand .....	24	204		
Sand, water .....	7	80	Gravel, water .....	4	208		
Well J-2							
Owner: J. W. McCaghren. Driller: Consolidated Oil & Gas Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	10	10	Cretaceous: .....				
Caliche .....	40	50	Rock, hard .....	7	186		
Shale .....	30	80	Clay, yellow .....	3	189		
Clay .....	20	100	Rock, hard .....	16	205		
Sand .....	12	112	Sand, white .....	3	208		
Clay .....	7	119	Rock .....	3	211		
Sand .....	12	131	Clay, yellow .....	26	237		
Cretaceous:			Sand .....	3	240		
Rock .....	2	133	Rock .....	3	243		
Clay .....	6	139	Triassic:				
Shale, blue .....	16	155	Clay, blue .....	3	246		
Rock, hard .....	3	158	Red beds .....	1	247		
Shale, blue .....	21	179					

Table 9.- Drillers' logs of wells in Lamb County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)	
Well J-4								
Owner: Q. McCaghren. Driller: Consolidated Oil & Gas Co.								
Quaternary and Tertiary, undifferentiated:								
Soil .....	4	4	Clay .....	3	140			
Caliche .....	41	45	Shale, blue .....	20	160			
Shale .....	30	75	Rock, hard .....	8	168			
Sand .....	7	82	Rock, soft .....	8	176			
Rock, hard .....	6	88	Rock, hard .....	4	180			
Clay, yellow .....	24	112	Sand, white .....	4	184			
Sand and gravel .....	17	129	Clay, white .....	3	187			
Cretaceous:								
Clay .....	6	135	Gravel .....	2	189			
Rock .....	2	137	Triassic: Red beds .....	1	190			
Well J-5								
Owner: J. N. Janes Estate. Driller: R. D. Hawthorn.								
Quaternary and Tertiary, undifferentiated:								
Soil .....	5	5	Rock .....	3	80			
Caliche and sand .....	19	24	Sand .....	3	83			
Clay, sandy .....	24	48	Rock, flint .....	7	90			
Sand .....	10	58	Sand, water .....	5	95			
Rock .....	3	61	Cretaceous:					
Shale, sandy .....	12	73	Shale, yellow .....	15	110			
Sand .....	4	77	Clay, blue .....	45	155			
Well J-6								
Owner: J. Fisher. Driller: Consolidated Oil & Gas Co.								
Quaternary and Tertiary, undifferentiated:								
Soil .....	4	4	Cretaceous:					
Caliche .....	41	45	Rock .....	3	127			
Sandstone .....	10	55	Shale, blue .....	18	145			
Sandstone, hard .....	5	60	Rock .....	4	149			
Shale, gray .....	20	80	Sand .....	4	153			
Sand .....	12	92	Shale, blue .....	4	157			
Shale .....	13	105	Rock, hard .....	8	165			
Sand .....	8	113	Shale, blue .....	3	168			
Clay .....	7	120	Clay, white .....	2	170			
Gravel .....	4	124	Triassic: Red beds .....	2	172			
Well J-7								
Owner: Jack Fisher. Driller: Consolidated Oil & Gas Co.								
Quaternary and Tertiary, undifferentiated:								
Soil .....	6	6	Rock .....	7	100			
Caliche .....	34	40	Cretaceous:					
Shale, gray .....	47	87	Clay, yellow .....	24	124			
Sand .....	6	93	Shale, blue .....	6	130			

Table 9.- Drillers' logs of wells in Lamb County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well J-13					
Owner: Wm. Lenderson. Driller: J. Miles.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	4	4	Shale, yellow-brown, with argillaceous limestone .....	5	130
Caliche .....	4	8	Limestone, light-gray, dense, with interbedded shales .....	8	138
Sand, marly .....	27	35	Limestone, arenaceous, light- gray .....	2	140
Sand, marly, with thin limestone ...	30	65	Shale, arenaceous, bluish-gray	10	150
Clay, sandy, with calcareous streaks .....	10	75	Limestone, argillaceous, yellowish-brown .....	6	156
Cretaceous:					
Clay, sandy, yellow .....	17	92	Triassic: Red beds .....	14	170
Limestone, sandy, yellow .....	3	95			
Clay, sandy, yellow .....	25	120			
Shale, grayish-green .....	5	125			
Well J-14					
Owner: Lena Beck. Driller: J. Miles.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	4	4	Shale, gray, and dense argillaceous limestone .....	55	175
Sand and clay, and caliche .....	86	90	Sand, light-gray, quartzitic ...	15	190
Cretaceous:					
Shale, yellow .....	2	92	Triassic: Shale, green .....	5	195
Limestone, argillaceous, light-gray	3	95			
Shale, arenaceous, blue-gray .....	25	120			
Well J-18					
Owner: J. R. Reed. Driller: J. M. White.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	3	3	Rock, hard .....	4	176
Rock .....	9	12	Rock, soft .....	1	177
Caliche .....	18	30	Shale, sandy, blue .....	8	185
Clay .....	50	80	Rock, hard .....	10	195
Sand and gravel, water-bearing .....	13	93	Sand, water (poor) .....	1	196
Cretaceous:					
Clay, yellow .....	19	112	Triassic: Shale, blue .....	4	200
Shale, blue .....	60	172			



Table 9.- Drillers' logs of wells in Lamb County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well K-3					
Owner: Henry Fisher. Driller: Consolidated Oil & Gas Co.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	5	5	Rock .....	4	92
Caliche .....	30	35	Sand .....	28	120
Rock .....	5	40	Cretaceous:		
Sand, dry .....	2	42	Shale .....	5	125
Shale .....	18	60	Sand and shale .....	15	140
Shale, sandy .....	10	70	Shale, blue .....	1	141
Sand .....	18	88			
Well K-10					
Owner: -- . Driller: Shell Oil Co.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	6	6	Cretaceous:		
Clay, sandy .....	32	38	Clay, yellow .....	12	115
Lime, sandy .....	42	80	Clay, blue .....	20	135
Gravel .....	23	103			
Well K-11					
Owner: M. Brantley. Driller: Bill Morgan.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	3	3	Cretaceous:		
Caliche .....	12	15	Clay, yellow .....	5	100
Clay, red .....	15	30	Rock .....	6	106
Shale, white .....	20	50	Clay, yellow .....	14	120
Rock .....	5	55	Shale, blue .....	35	155
Clay, red .....	15	70	Rock .....	5	160
Sand, dry .....	10	80	Shale, sandy .....	10	170
Shale, hard .....	4	84	Rock .....	10	180
Sand, water .....	11	95	Sand, water .....	10	190
			Triassic: Red beds .....	10	200
Well K-13					
Owner: M. Brantley. Driller: -- Altman.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	3	3	Clay, red .....	15	70
Caliche .....	12	15	Sand, dry .....	10	80
Clay, red .....	15	30	Shale, hard .....	4	84
Shale, white .....	20	50	Sand, water .....	11	95
Rock .....	5	55			

(Continued on next page)

Table 9.- Drillers logs of wells in Lamb County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well K-13--Continued					
Cretaceous:					
Clay, yellow .....	5	100	Shale, sandy .....	10	170
Rock .....	6	106	Rock .....	10	180
Clay, yellow .....	14	120	Sand, water .....	10	190
Shale, blue .....	35	155	Triassic: Red beds .....	20	210
Rock .....	5	160			
Well K-14					
Owner: E. L. Yarbrough. Driller: C. Barnett.					
Quaternary and Tertiary, undifferentiated:			Cretaceous:		
Surface .....	6	6	Shale .....	8	96
Packsand .....	36	42	Rock .....	19	115
Rock .....	3	45	Shale .....	13	128
Shale and sand .....	17	62	Clay, blue .....	30	158
Rock .....	14	76	Rock .....	7	165
Sand and gravel .....	12	88			
Well K-18					
Owner: Harry Brantley. Driller: Green Machinery Co.					
Quaternary and Tertiary, undifferentiated:			Cretaceous:		
Soil .....	6	6	Clay, yellow .....	10	125
Caliche .....	9	15	Clay, blue .....	59	184
Clay .....	13	28	Sand and gravel .....	16	200
Shale .....	16	44	Triassic:		
Sand, dry, and shale .....	26	70	Clay, red .....	4	204
Rock .....	14	84	Shale, blue .....	8	212
Clay and shale .....	14	98	Clay, blue .....	3	215
Sand and gravel .....	17	115			
Well K-20					
Owner: Harry Brantley. Driller: A. Bishop.					
Quaternary and Tertiary, undifferentiated:			Cretaceous:		
Soil .....	5	5	Clay, yellow .....	10	120
Caliche .....	60	65	Shale, blue .....	67	187
Sand, water .....	5	70	Rock .....	5	192
Clay .....	28	98	Sand, white .....	13	205
Gravel and sand .....	12	110	Triassic: Shale, blue .....	1	206

Table 9.- Drillers' logs of wells in Lamb County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well K-24							
Owner: E. L. Schanajsa. Driller: C. Harmon.							
Quaternary and Tertiary, undifferentiated:				Cretaceous:			
Soil .....	5	5	Clay, yellow .....	12	127		
Clay and caliche .....	35	40	Clay, blue .....	88	215		
Clay .....	32	72	Sand, dry .....	5	220		
Rock .....	33	105	Triassic: Red beds .....	1	221		
Sand, water .....	10	115					
Well K-63							
Owner: G. R. Hill. Driller: J. Miller.							
Quaternary and Tertiary, undifferentiated:				Cretaceous:			
Soil .....	5	5	Clay, yellow .....	14	124		
Caliche .....	35	40	Sand and gravel .....	5	129		
Sand, dry .....	30	70	Triassic: Red beds .....				
Caliche and sand .....	6	76	Clay, yellow .....	11	140		
Sand, red .....	4	80	Clay, blue .....	3	143		
Sand and gravel .....	30	110					
Well K-70							
Owner: R. T. Badger. Driller: Shell Oil Co.							
Quaternary and Tertiary, undifferentiated:				Cretaceous:			
Soil .....	6	6	Clay, sandy .....	21	81		
Clay, sandy .....	21	27	Clay, yellow .....	9	90		
Lime, broken .....	33	60	Clay, blue .....	15	105		
Well K-79							
Owner: V. K. McCaskill. Driller: Shell Oil Co.							
Quaternary and Tertiary, undifferentiated:				Cretaceous:			
Soil .....	4	4	Clay, yellow .....	8	72		
Clay, sandy .....	30	34	Clay, blue .....	66	138		
Lime, broken .....	18	52	Triassic: Red beds .....	22	160		
Sand and gravel .....	12	64					
Well K-81, partial log							
Owner: Yellowhouse Land Co. Driller: L. Taliaferro. Reported altitude 3,435 ft.							
Quaternary and Tertiary, undifferentiated:				Cretaceous:			
Soil .....	4	4	Lime, sandy .....	4	41		
Clay and gyp .....	15	19	Sand, gray, water .....	9	50		
Sand, water .....	5	24	Triassic:				
Clay and shale .....	6	30	Sand and clay .....	40	90		
Sand, water .....	4	34	Red beds .....	1,760	1,850		
Cretaceous:			Total depth .....		4,240		
Shale, blue .....	2	36					
Limestone, brown and white sand .....	1	37					

Table 9.- Drillers' logs of wells in Lamb County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well K-92							
Owner: --- Driller: Stanolind Oil & Gas Co. Reported altitude 3,523 ft.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	7	7	Cretaceous: Shale, blue .....	50	120		
Caliche .....	27	34	Triassic: Red beds .....	85	205		
Sand .....	36	70					
Well K-93							
Owner: Geo. L. White. Driller: Stanolind Oil & Gas Co. Reported altitude 3,443 ft.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	4	4	Clay, red .....	25	70		
Sand and sandstone .....	28	32	Clay, gray .....	26	96		
Clay, gray .....	13	45	Red beds .....	32	128		
Well K-94							
Owner: --- Driller: Stanolind Oil & Gas Co. Reported altitude 3,423 ft.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	2	2	Triassic:				
Clay, blue and gray .....	10	12	Red beds with streaks of gray				
Cretaceous:			clay .....	13	43		
Clay, yellow, and gravel with sand .....	18	30	Red beds .....	37	80		
			Shale, gray .....	6	86		
Well K-95							
Owner: Geo. L. White. Driller: Stanolind Oil & Gas Co. Reported altitude 3,413 ft.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	2	2	Triassic:				
Caliche .....	8	10	Red beds .....	9	48		
Cretaceous:			Clay, gray .....	12	60		
Clay, yellow, and gravel .....	24	34	Red beds .....	26	86		
Clay, blue .....	5	39					
Well L-6							
Owner: C. Mesecke. Driller: A. W. Fish.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	8	8	Sand, coarse, and red clay .....	64	172		
Caliche .....	12	20	Sand, soft .....	25	197		
Sand, dry .....	45	65	Gravel .....	10	207		
Sand, soft .....	18	83	Triassic: Clay, red .....	3	210		
Sand .....	25	108					

Table 9.- Drillers' logs of wells in Lamb County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well L-7							
Owner: Millard Phillips. Driller: S. Ballard.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	8	8	Clay .....	10	120		
Clay .....	12	20	Sand .....	12	132		
Caliche .....	20	40	Clay .....	8	140		
Sand, dry .....	12	52	Sand .....	30	170		
Caliche .....	13	65	Sand and boulders .....	28	198		
Sand .....	13	78	Caliche .....	3	201		
Caliche .....	7	85	Gravel .....	13	214		
Sand .....	10	95	Triassic: Red beds .....	1	215		
Caliche .....	15	110					
Well L-28							
Owner: T. F. Fulbright. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Surface .....	6	6	Sand .....	8	104		
Clay .....	14	20	Clay .....	8	112		
Caliche .....	12	32	Sand, fine .....	8	120		
Sand, white .....	8	40	Rock .....	2	122		
Shale .....	14	54	Sand .....	14	136		
Sand, good .....	14	68	Clay, red .....	20	156		
Clay .....	20	88	Sand, fine .....	18	174		
Sand and boulders .....	8	96	Sand and gravel .....	16	190		
Well L-41							
Owner: Dan Heard. Driller: T. W. Price.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	2	2	Clay .....	12	110		
Sand, red .....	18	20	Rock, white .....	10	120		
Caliche, rock .....	4	24	Clay, sandy .....	20	140		
Packsand .....	16	40	Sandrock .....	4	144		
Clay .....	10	50	Sand, water .....	16	160		
Sand .....	15	65	Clay .....	3	163		
Sandrock .....	5	70	Rock, flint .....	3	166		
Sand, dry .....	10	80	Sandrock and clay .....	19	185		
Sandrock .....	5	85	Gravel; water .....	20	205		
Sand, water .....	13	98	Triassic: Clay, red .....	5	210		
Well L-42							
Owner: Deck Herd. Driller: M. A. Patton.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	2	2	Clay, sandy .....	18	112		
Caliche .....	10	12	Rock .....	3	115		
Clay .....	20	32	Clay .....	9	124		
Sandrock .....	14	46	Sand .....	12	136		
Packsand .....	12	58	Clay and sand .....	29	165		
Clay .....	22	80	Clay .....	13	178		
Sand, water .....	11	91	Sand and gravel .....	29	207		
Rock .....	3	94	Triassic: Clay .....	3	210		

Table 9.- Drillers' logs of wells in Lamb County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well L-48							
Owner: C. J. Mills. Driller: Buck Price.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	4	4	Sand .....	16	126		
Caliche .....	3	7	Sand and gravel .....	12	138		
Sand, dry .....	13	20	Clay .....	9	147		
Clay .....	18	38	Sand .....	31	178		
Sandrock .....	4	42	Clay .....	4	182		
Clay .....	36	78	Sand .....	25	207		
Sand, water .....	12	90	Gravel .....	15	222		
Clay .....	17	107	Triassic: Clay .....	3	225		
Rock, hard .....	3	110					
Well L-70							
Owner: L. J. Swanson. Driller: F. Foust.							
Quaternary and Tertiary, undifferentiated:							
Not recorded .....	24	24	Caliche and red sand .....	19	136		
Sand, hard, and shell rock .....	51	75	Clay and sand .....	14	150		
Shell rock .....	5	80	Sand, brown .....	7	157		
Clay and sand .....	8	88	Sand, water .....	13	170		
Sand, water .....	6	94	Packsand .....	11	181		
Clay and shell rock .....	20	114	Sand and gravel, water .....	26	207		
Sand, water .....	3	117	Triassic: Clay, red .....	1	208		
Well L-136							
Owner: City of Littlefield. Driller: G. L. Taylor.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	5	5	Sand, coarse, and gravel, water .....	24	160		
Caliche .....	20	25	Sand, coarse, water .....	20	180		
Sand, red, and clay .....	6	31	Rock, hard, white .....	2	182		
Caliche .....	8	39	Sand, brown .....	28	210		
Sand, hard, brown .....	30	69	Cretaceous:				
Sand, fine, water .....	16	85	Clay, yellow .....	10	220		
Sand, coarse, clean, water .....	49	134	Clay, yellow and blue .....	20	240		
Rock, hard, white .....	2	136					
Well L-138							
Owner: City of Littlefield. Driller: G. L. Taylor.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	5	5	Sand, fine, and pea gravel, water .....	81	151		
Caliche .....	15	20	Cretaceous:				
Sand, red .....	21	41	Lime rock, hard, white .....	5	156		
Sandstone, soft .....	29	70	Clay, yellow .....	44	200		



Table 9.- Drillers' logs of wells in Lamb County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well L-139							
Owner: City of Littlefield. Driller: A. B. Hays.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	4	4	Sand, pink .....	11	68		
Chalk .....	5	9	Sand and gravel, water .....	12	80		
Clay, pink .....	13	22	Clay, pink .....	14	94		
Clay, sandy, pink .....	5	27	Sand, white, water .....	4	98		
Rock chalk .....	3	30	Clay, yellow .....	17	115		
Caliche .....	8	38	Sand and gravel, water .....	13	128		
Sand, pink, and caliche .....	19	57	Cretaceous: Clay, yellow .....	2	130		
Well L-140							
Owner: City of Littlefield. Driller: Fred Foust.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	3	3	Sand and gravel, and clay balls, water .....	5	87		
Chalk .....	3	6	Sand, white, water .....	11	98		
Clay, pink .....	14	20	Gravel, water .....	2	100		
Clay, sandy, pink .....	6	26	Clay, yellow .....	19	119		
Rock .....	5	31	Sand, water .....	5	124		
Caliche .....	9	40	Sand and gravel, water .....	12	136		
Sand, pink, and caliche .....	20	60	Cretaceous: Clay, yellow .....	12	148		
Sand, pink, seep .....	9	69					
Sand and gravel, water .....	13	82					
Well L-141							
Owner: R. L. Holden. Driller: H. C. Ferguson.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	7	7	Sand, white, dry .....	11	97		
Caliche .....	24	31	Gravel, water .....	4	101		
Rock and sandy lime .....	5	36	Cretaceous:				
Sand, dry .....	34	70	Clay, yellow .....	30	131		
Sand, water .....	4	74	Clay and shale, blue .....	49	180		
Caliche, red .....	12	86	Trinity group: Sand, water .....	15	195		
Well L-223							
Owner: M. R. and B. A. Fowler. Driller: L. J. Sheridan.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	4	4	Sand, red, water and clay .....	5	81		
Caliche and clay .....	36	40	Clay, yellow .....	42	123		
Soil, rocky .....	15	55	Sand, white, water .....	17	140		
Clay .....	8	63	Cretaceous: Clay, blue .....	3	143		
Sand, water, and clay .....	4	67					
Clay, yellow .....	9	76					

Table 9.- Drillers' logs of wells in Lamb County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well L-235					
Owner: Mrs. Alice Lindsay Smith. Driller: A. E. Bishop.					
Quaternary and Tertiary, undifferentiated:					
Not recorded .....	27	27	Clay .....	24	80
Sand, water .....	4	31	Sand, water .....	10	90
Clay, yellow .....	17	48	Clay .....	1	91
Sand, water .....	8	56			
Well L-241					
Owner: Branton & Clark. Driller: R. F. Davis.					
Quaternary and Tertiary, undifferentiated:					
Soil, caliche, and sandy clay .....	70	70	Clay, red .....	10	135
Sand, water .....	25	95	Sand and gravel, water .....	10	145
Clay, joint, red .....	5	100	Cretaceous: Clay, blue, and rock	7	152
Sand, red, water .....	25	125			
Well L-255					
Owner: G. V. Coker. Driller: F. E. Mauldin.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	5	5	Clay, red .....	3	80
Caliche .....	31	36	Sand and gravel .....	10	90
Sand, water .....	12	48	Cretaceous:		
Packsand .....	4	52	Clay, yellow, and rock .....	9	99
Clay, red .....	10	62	Shale, blue .....	1	100
Sand .....	15	77			
Well L-263					
Owner: W. E. Liles. Driller: B. Elliott.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	4	4	Gravel, sandy .....	5	80
Caliche .....	22	26	Gravel .....	13	93
Clay .....	12	38	Sand .....	22	115
Rock .....	5	43	Gravel .....	11	126
Sand, water .....	21	64	Sand .....	11	137
Clay .....	11	75	Cretaceous: Clay .....	1	138

Table 9.- Drillers' logs of wells in Lamb County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well L-299, partial log							
Owner: Ellwood Estate. Driller: Graham Oil & Gas Co.							
Quaternary and Tertiary, undifferentiated:							
Sand, red .....	10	10	Shale, blue .....	75	900		
Clay, white .....	10	20	Lime, hard, gray .....	10	910		
Clay, red, and red rock .....	65	85	Shale, blue .....	65	975		
Triassic:							
Sand .....	227	312	Shale, red .....	30	1,005		
Rock, red .....	8	320	Shale, soft, red .....	60	1,065		
Shale, gray .....	8	328	Shale, gray .....	20	1,085		
Rock, red .....	12	340	Shale, soft, red .....	20	1,105		
Shale, blue .....	10	350	Shale, gray .....	10	1,115		
Rock, red .....	35	385	Shale, red .....	65	1,180		
Shale, blue .....	27	412	Red beds .....	20	1,200		
Sand, water .....	35	447	Shale, red .....	50	1,250		
Shale, blue .....	53	500	Shale, blue .....	15	1,265		
Shale, sandy, gray .....	12	512	Sand, water .....	5	1,270		
Rock, red .....	38	550	Shale, sandy, blue .....	25	1,295		
Shale, red and blue .....	40	590	Sand, white, water .....	20	1,315		
Shale, blue .....	40	630	Shale, white .....	50	1,365		
Sand, gray .....	35	665	Rock, red .....	10	1,375		
Rock, red .....	20	685	Sand, white, water .....	53	1,428		
Shale, gray .....	15	700	Rock, red .....	32	1,460		
Shale, blue .....	90	790	Shale, blue .....	5	1,465		
Lime, hard, gray .....	10	800	Rock, red .....	80	1,545		
Lime, broken, gray .....	25	825	Permian: Anhydrite and lime ...	35	1,580		
			Total depth .....		4,508		
Well L-307							
Owner: R. L. and L. M. Stubblefield. Driller: T. W. Price.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	2	2	Clay .....	4	100		
Sand .....	8	10	Sandrock, hard .....	6	106		
Caliche .....	2	12	Clay, sandy .....	39	145		
Sand .....	14	26	Sand, water .....	15	160		
Rock, hard .....	4	30	Sandrock .....	5	165		
Clay .....	8	38	Sand and clay .....	15	180		
Rock .....	9	47	Sandrock .....	3	183		
Sand, dry .....	36	83	Gravel, water .....	12	195		
Sandrock .....	2	85	Rock, hard .....	1	196		
Sand, water .....	11	96					

Table 9:- Drillers' logs of wells in Lamb County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well L-314							
Owner: H. Carter. Driller: Bradford Supply Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	3	3	Sand, water .....	25	145		
Clay, red .....	2	5	Sandrock, hard .....	3	148		
Caliche .....	10	15	Sand, water .....	12	160		
Sandrock .....	9	24	Sandrock .....	10	170		
Sand, dry .....	17	41	Clay .....	10	180		
Sand and sandrock .....	39	80	Gravel, water .....	20	200		
Clay, yellow .....	10	90	Triassic: Clay, red .....	4	204		
Sand, dry, and sandrock .....	30	120					
Well M-10							
Owner: P. E. Roddy. Driller: Green Machinery Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	4	4	Sand .....	50	128		
Caliche .....	14	18	Clay .....	12	140		
Clay .....	7	25	Sand .....	35	175		
Shale, hard .....	33	58	Clay .....	13	188		
Clay .....	8	66	Sand .....	13	201		
Rock .....	12	78					
Well M-13							
Owner: D. L. Greenwood. Driller: W. O. Tye.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	3	3	Clay, red .....	26	114		
Caliche .....	34	37	Sand and clay .....	18	132		
Clay, broken, and shells .....	19	56	Sand and shells .....	6	138		
Sand, gray .....	14	70	Sand and clay .....	23	161		
Rock, hard .....	18	88	Clay, red, and sand .....	63	224		
Well M-24							
Owner: F. McCarter. Driller: Peerless Pump Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	2	2	Sandrock .....	5	70		
Caliche .....	4	6	Sand, water .....	14	84		
Sand .....	10	16	Sand, dry, and rock .....	31	115		
Rock, white .....	8	24	Sand, water .....	10	125		
Sand, dry .....	12	36	Clay, red .....	5	130		
Clay, yellow .....	5	41	Sandrock .....	3	133		
Sand, dry .....	12	53	Sand, water .....	12	145		
Clay .....	12	65	Clay, red .....	5	150		

Table 9.- Drillers' logs of wells in Lamb County--Continued

Thickness (feet)		Depth (feet)	Thickness (feet)		Depth (feet)
Well M-27					
Owner: G. A. Duffer. Driller: Consolidated Oil & Gas Co.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	10	10	Shale, red .....	22	123
Caliche .....	24	34	Clay and sand .....	23	146
Shale and rock .....	22	56	Shale and sand .....	22	168
Shale and sand .....	45	101	Sand and gravel .....	36	204
Well M-52					
Owner: R. D. Stokes. Driller: F. W. Price.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	2	2	Limestone .....	4	124
Sand, dry .....	18	20	Clay .....	6	130
Caliche rock .....	4	24	Sandrock .....	7	137
Sand, dry .....	20	44	Sand and clay and rock .....	13	150
Sandrock .....	6	50	Sand, water .....	15	165
Sand, dry .....	30	80	Sandrock .....	5	170
Sandrock .....	5	85	Clay, sandy .....	15	185
Sand, water .....	11	96	Gravel, water .....	13	198
Sandrock .....	4	100	Triassic: Clay .....	2	200
Clay, yellow .....	8	108			
Sand, dry .....	12	120			
Well M-57					
Owner: James R. Duke. Driller: J. H. Barnett.					
Quaternary and Tertiary, undifferentiated:					
Surface .....	25	25	Sand, tight .....	40	122
Sand .....	30	55	Clay .....	14	136
Sand, broken .....	27	82	Sand .....	65	201
Well M-79					
Owner: W. F. Stowers. Driller: B. Price.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	3	3	Clay, sandy .....	15	145
Clay, sandy .....	52	55	Sandrock .....	10	155
Sand, water .....	15	70	Sand and gravel, water .....	25	180
Rock, hard .....	12	82	Sandrock .....	12	192
Sandrock .....	12	94	Sand and gravel, water .....	18	210
Sand .....	36	130	Sandrock .....	4	214

Table 9.- Drillers' logs of wells in Lamb County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well M-81							
Owner: Mrs. R. C. Roberts. Driller: H. P. Price.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	2	2	Clay, yellow .....	6	108		
Caliche .....	4	6	Sand, dry .....	10	118		
Sand, dry .....	10	16	Lime rock .....	3	121		
Sandrock .....	2	18	Clay .....	15	136		
Sand, dry .....	17	35	Sand, dry .....	11	147		
Sandrock .....	11	46	Sandrock .....	2	149		
Sand, dry .....	10	56	Sand, water .....	11	160		
Clay .....	4	60	Clay .....	4	164		
Sand, dry .....	12	72	Sand and rock .....	20	184		
Sand and sandrock .....	18	90	Sand, water .....	22	206		
Sand, water .....	8	98	Clay .....	2	208		
Sandrock .....	4	102	Rock .....	3	211		
Well M-94							
Owner: R. T. Block. Driller: Consolidated Oil & Gas Co.							
Quaternary and Tertiary, undifferentiated:							
Surface .....	10	10	Clay and sand .....	32	122		
Caliche .....	23	33	Shale, red .....	22	144		
Shale .....	44	77	Sand and gravel .....	76	220		
Shale and sand .....	13	90					
Well M-97							
Owner: I. Fowler. Driller: Peerless Pump Co.							
Quaternary and Tertiary, undifferentiated:							
Soil .....	4	4	Sandrock .....	14	154		
Caliche .....	12	16	Clay .....	14	168		
Clay, sandy .....	38	54	Sandrock .....	24	192		
Clay .....	24	78	Clay, red .....	16	208		
Sandrock .....	14	92	Gravel .....	9	217		
Sand, water .....	8	100	Sand and clay .....	58	275		
Sandrock .....	20	120	Triassic: Red beds .....	4	279		
Clay, sandy, red .....	20	140					
Well M-104							
Owner: L. Leonard. Driller: Consolidated Oil & Gas Co.							
Quaternary and Tertiary, undifferentiated:							
Surface .....	10	10	Shale and clay .....	22	101		
Caliche .....	22	32	Shale and sand .....	67	168		
Clay .....	24	56	Sand, water .....	41	209		
Shale and rock .....	23	79					



Table 9.- Drillers' logs of wells in Lamb County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well M-118					
Owner: Boyd Bryant. Driller: J. D. Kirkland.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	5	5	Rock .....	7	78
Caliche .....	40	45	Sand .....	23	101
Sand .....	8	53	Sand and shale .....	20	121
Clay .....	7	60	Clay, red .....	45	166
Rock, soft .....	5	65	Sand .....	49	215
Sand .....	6	71	Sand and clay .....	7	222
Well M-139					
Owner: -- Egenbacher. Driller: E. A. Bishop.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	6	6	Sand, red, water .....	13	98
Clay .....	32	38	Clay .....	15	113
Rock .....	3	41	Sandrock .....	7	120
Clay .....	17	58	Clay .....	15	135
Sand, water .....	4	62	Sand and gravel, water .....	3	138
Clay .....	23	85	Clay, red .....	3	141
Well M-146					
Owner: C. C. Cox. Driller: E. A. Bishop.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	4	4	Clay .....	8	96
Caliche .....	15	19	Sand, water .....	4	100
Clay .....	35	54	Clay, red .....	10	110
Rock .....	4	58	No record .....	6	116
Sand, dry .....	12	70	Sand, water .....	4	120
Rock .....	1	71	Clay .....	38	158
Sand, dry .....	14	85	Sand, water .....	4	162
Rock .....	3	88			
Well M-177					
Owner: J. S. Bridges. Driller: Green Machinery Co.					
Quaternary and Tertiary, undifferentiated:					
Soil .....	5	5	Sand, fine .....	15	120
Caliche .....	20	25	Sand .....	15	135
Shale and clay .....	25	50	Clay .....	5	140
Sand and shale .....	15	65	Sand and gravel .....	15	155
Sand .....	15	80	Clay, yellow, and boulders .....	5	160
Sand and shale .....	15	95	Triassic: Red beds .....	5	165
Clay and shale .....	10	105			

Table 10.- Water levels in wells in Lamb County, Tex.  
(In feet below land-surface datum)

Numbers in parentheses refer to numbers in U. S. Geological Survey Water-Supply Papers "Water levels and artesian pressures in the United States."

Date	Water level	Date	Water level	Date	Water level
Well A-4 (1)					
Owner: H. H. Engleking.					
Nov. 10, 1936	68.90	Mar. 18, 1940	69.05	Mar. 14, 1944	66.80
Jan. 24, 1937	68.97	Nov. 14	69.95	Feb. 19, 1945	66.48
Mar. 30, 1938	70.00	Jan. 27, 1941	69.81	Mar. 1, 1946	68.17
June 16	71.10	Mar. 10	69.71	Mar. 13, 1947	67.08
Mar. 10, 1939	68.92	Nov. 7	68.50	Mar. 11, 1949	68.90
July 7	68.62	Mar. 16, 1942	67.96	Feb. 17, 1950	70.62
Sept. 15	69.56	Nov. 30	67.20	Jan. 12, 1951	*74.03
Dec. 7	69.10	Feb. 4, 1943	67.03	Jan. 25, 1952	71.92
Well A-31 (16)					
Owner: W. W. Haley.					
June 6, 1936	37.38	Nov. 13, 1940	37.08	Feb. 19, 1945	31.62
Feb. 25, 1937	36.25	Jan. 27, 1941	36.77	Mar. 1, 1946	32.68
June 24	36.70	Mar. 10	36.59	Jan. 14, 1947	34.31
Mar. 30, 1938	35.67	Nov. 17	31.59	Feb. 19, 1948	36.60
June 16	36.23	Mar. 16, 1942	30.31	Mar. 11, 1949	40.30
Sept. 15, 1939	36.51	Nov. 30	29.47	Feb. 17, 1950	41.40
Dec. 7	36.12	Feb. 4, 1943	29.11	Jan. 21, 1951	43.09
Mar. 18, 1940	35.91	Feb. 10, 1944	30.50	Jan. 25, 1952	46.10
Well A-34 (3A)					
Owner: Muleshoe Masonic Lodge.					
May 9, 1936	33.38	Sept. 15, 1939	39.10	Feb. 14, 1944	23.68
Oct. 23	29.93	Dec. 7	29.98	Feb. 19, 1945	24.72
Jan. 25, 1937	30.04	Nov. 14, 1940	31.75	Mar. 1, 1946	26.43
June 21	31.82	Jan. 27, 1941	30.78	Jan. 14, 1947	29.22
Mar. 30, 1938	29.03	Mar. 10	30.49	Mar. 13	28.58
Sept. 16	30.22	July 31	27.56	Feb. 19, 1948	30.54
Oct. 25	29.98	Nov. 17	24.57	Mar. 11, 1949	33.85
Dec. 1	29.62	Mar. 16, 1942	22.88	Feb. 17, 1950	34.61
Mar. 9, 1939	29.13	Nov. 30	22.08	Jan. 12, 1951	35.52
July 7	31.22	Feb. 4, 1943	21.85	Jan. 25, 1952	38.09

\* Affected by pumping of nearby wells.

Table 10.- Water levels in wells in Lamb County--Continued

Date	Water level	Date	Water level	Date	Water level
Well A-37 (6)					
Owner: G. L. Till.					
1914	18.00	Nov. 14, 1940	21.71	Feb. 19, 1945	17.80
Mar. 15, 1937	20.06	Jan. 27, 1941	21.49	Mar. 13, 1947	22.41
June 15, 1938	21.23	Mar. 10	21.34	Feb. 19, 1948	23.55
Oct. 25	20.80	July 31	15.90	Mar. 11, 1949	27.67
Mar. 10, 1939	20.03	Nov. 1	14.15	Feb. 17, 1950	27.36
July 7	20.76	Mar. 16, 1942	13.10	Sept. 7	31.60
Sept. 15	20.70	Nov. 30	13.00	Jan. 12, 1951	30.33
Dec. 7	20.52	Feb. 4, 1943	13.32	Jan. 25, 1952	32.49
Mar. 18, 1940	20.45	Feb. 14, 1944	16.65		
Well A-46 (19)					
Owner: J. Allen.					
Oct. 30, 1936	19.79	Dec. 7, 1939	19.96	Feb. 14, 1944	14.94
Jan. 26, 1937	19.59	Mar. 18, 1940	19.92	Feb. 19, 1945	16.30
Mar. 30, 1938	19.16	Nov. 13	20.67	Mar. 13, 1947	19.64
June 16	20.03	Jan. 27, 1941	20.48	Feb. 19, 1948	20.68
Sept. 16	20.01	Mar. 10	20.43	Mar. 11, 1949	26.25
Oct. 25	19.84	Nov. 17	11.57	Feb. 17, 1950	27.60
Mar. 10, 1939	19.58	Mar. 16, 1942	11.59	Jan. 12, 1951	27.98
July 7	19.94	Nov. 30	11.44	Jan. 25, 1952	30.83
Sept. 15	20.07	Feb. 4, 1943	11.98		
Well A-53 (30)					
Owner: W. Grizzle.					
May 14, 1936	24.00	Dec. 7, 1939	23.58	Feb. 19, 1945	20.70
Oct. 28	24.51	Mar. 18, 1940	23.71	Feb. 28, 1946	21.95
Feb. 4, 1937	23.72	Nov. 13	23.99	Jan. 14, 1947	21.76
June 24	23.25	Jan. 27, 1941	23.96	Mar. 13	24.03
Mar. 30, 1938	23.09	Mar. 10	24.01	Feb. 19, 1948	24.87
Sept. 16	24.05	Nov. 17	17.00	Mar. 11, 1949	26.65
Oct. 25	23.76	Mar. 16, 1942	17.40	Feb. 17, 1950	29.15
Mar. 19, 1939	23.34	Nov. 30	17.22	Oct. 20	28.00
July 7	23.57	Feb. 4, 1943	17.73	Jan. 12, 1951	30.22
Sept. 15	23.72	Feb. 14, 1944	20.00	Jan. 25, 1952	31.87

Table 10.- Water levels in wells in Lamb County--Continued

Date	Water level	Date	Water level	Date	Water level
Well A-88 (13)					
Owner: J. Fyie.					
Nov. 14, 1934	21.67	July 7, 1939	19.64	Feb. 14, 1944	15.70
May 9, 1936	20.87	Sept. 15	20.73	Feb. 19, 1945	16.40
Oct. 26	19.39	Dec. 7	19.70	Mar. 1, 1946	18.03
Jan. 26, 1937	19.13	Mar. 18, 1940	19.60	Jan. 14, 1947	15.43
June 24	18.46	Nov. 13	20.59	Mar. 13	19.09
Mar. 30, 1938	18.21	Jan. 27, 1941	20.37	Feb. 19, 1948	21.70
June 16	19.14	Mar. 10	20.92	Mar. 11, 1949	26.69
Sept. 16	19.41	Nov. 17	10.47	Feb. 17, 1950	27.69
Oct. 25	19.32	Mar. 16, 1942	10.59	Jan. 12, 1951	30.00
Dec. 1	19.21	Nov. 30	11.19	Jan. 25, 1952	30.06
Mar. 10, 1939	19.00	Feb. 4, 1943	11.58		
Well A-91 (7)					
Owner: J. G. Thompson.					
Nov. 14, 1934	13.79	July 7, 1939	16.03	July 3, 1942	8.13
May 9, 1936	15.38	Dec. 7	16.10	Nov. 30	8.14
Aug. 16	15.43	Oct. 28, 1940	17.14	Feb. 4, 1943	8.25
Jan. 25, 1937	15.26	Nov. 13	17.08	Feb. 14, 1944	10.30
June 21	14.57	Jan. 27, 1941	16.89	Feb. 28, 1946	14.34
Mar. 30, 1938	14.63	Mar. 10	16.74	Mar. 13, 1947	14.97
Sept. 16	15.96	May 30	13.12	Mar. 11, 1949	21.44
Oct. 10	15.76	July 31	7.38	Feb. 17, 1950	22.32
Dec. 1	15.57	Nov. 1	5.31	Jan. 12, 1951	23.45
Mar. 10, 1939	15.18	Mar. 16, 1942	6.72	Jan. 25, 1952	23.05
Well A-99					
Owner: Allison Bros.					
Mar. 24, 1949	18.9	Apr. 24, 1950	24.6	Apr. 23, 1951	23.0
Apr. 28	35.6	May 22	23.0	May 21	25.6
May 31	20.6	June 26	23.3	June 26	20.9
June 20	20.0	July 24	22.8	July 24	18.4
Aug. 26	35.5	Sept. 25	22.9	Aug. 28	28.3
Sept. 30	25.3	Oct. 19	20.8	Oct. 23	29.0
Oct. 25	22.2	Nov. 24	19.5	Nov. 27	24.5
Nov. 25	20.5	Dec. 21	18.9	Dec. 26	22.5
Dec. 23	19.7	Jan. 23, 1951	18.6	Jan. 30, 1952	20.4
Jan. 25, 1950	19.1	Feb. 23	18.2	Feb. 25	22.0
Feb 24	20.1	Mar. 22	17.8		

Table 10.- Water levels in wells in Lamb County--Continued

Date	Water level	Date	Water level	Date	Water level
Well A-101 (8)					
Owner: B. H. Dyck.					
Oct. 26, 1936	15.79	Mar. 10, 1939	15.48	Feb. 19, 1945	12.95
Jan. 26, 1937	15.54	July 7	16.64	Feb. 28, 1946	14.67
Aug. 30	15.43	Dec. 7	16.52	Mar. 13, 1947	14.68
Nov. 21	15.00	Nov. 13, 1940	17.33	Feb. 19, 1948	17.08
Jan. 10, 1938	15.00	Jan. 27, 1941	16.96	Mar. 11, 1949	21.05
Mar. 30	14.97	Mar. 10	16.85	Feb. 17, 1950	20.12
Sept. 16	16.34	Nov. 17	6.16	Jan. 12, 1951	20.13
Oct. 25	16.00	Mar. 16, 1942	7.81	Jan. 25, 1952	22.67
Dec. 1	15.83	Feb. 15, 1944	12.52		
Well B-27 (54)					
Owner: R. G. Wilson.					
Apr. 1, 1937	87.42	Feb. 22, 1945	87.27	Feb. 16, 1950	95.77
June 13, 1938	88.94	Mar. 2, 1946	88.43	Jan. 12, 1951	94.93
Nov. 10, 1942	88.93	Mar. 13, 1947	89.14	Jan. 25, 1952	97.38
Feb. 23, 1943	86.08	Feb. 19, 1948	90.45		
Feb. 7, 1944	86.30	Mar. 11, 1949	92.76		
Well B-33 (53-C)					
Owner: E. M. Gettys, Jr.					
Nov. 10, 1942	90.94	Mar. 13, 1947	98.80	Jan. 12, 1951	100.50
Feb. 23, 1943	90.10	Feb. 19, 1948	93.59	Jan. 25, 1952	103.10
Feb. 7, 1944	90.40	Mar. 11, 1949	95.35		
Feb. 22, 1945	91.40	Feb. 16, 1950	96.48		
Well B-75 (38)					
Owner: Andrew Dutton					
Oct. 28, 1936	40.10	Feb. 19, 1945	35.70	Feb. 17, 1950	41.65
Feb. 4, 1937	39.27	Feb. 28, 1946	36.93	Jan. 12, 1951	40.14
Mar. 30, 1938	42.16	Mar. 13, 1947	37.03	Jan. 25, 1952	44.49
Feb. 11, 1943	33.78	Feb. 19, 1948	38.59		
Feb. 14, 1944	35.25	Mar. 11, 1949	41.38		

Table 10.- Water levels in wells in Lamb County--Continued

Date	Water level	Date	Water level	Date	Water level
Well B-138 (50-A)					
Owner: A. W. Gower.					
Feb. 23, 1943	43.36	Jan. 12, 1951	57.36	Jan. 29, 1952	48.85
Mar. 11, 1949	48.75				
Well B-151 (46-B)					
Owner: A. A. Parish.					
Feb. 28, 1946	37.12	Mar. 11, 1949	39.78	Jan. 25, 1952	39.55
Mar. 18, 1947	36.42	Feb. 16, 1950	39.84		
Feb. 19, 1948	37.48	Jan. 12, 1951	38.63		
Well B-160 (50-B)					
Owner: Bruce Higgins.					
Aug. 14, 1952	48.18	Feb. 22, 1945	45.08	Mar. 11, 1949	48.75
Nov. 12	44.63	Mar. 1, 1946	46.54	Feb. 16, 1950	49.20
Feb. 23, 1943	43.65	Mar. 13, 1947	46.08	Jan. 12, 1951	*50.71
Feb. 8, 1944	44.72	Feb. 19, 1948	46.43	Jan. 29, 1952	47.57
Well B-170					
Owner: Southwestern Public Service Co.					
Apr. 18, 1952	35.61	Apr. 24, 1952	35.61	May 19, 1952	35.70
Apr. 23	35.62	May 1	35.64	June 19	35.90
Well C-31 (55-A)					
Owner: E. B. McDowell.					
Mar. 11, 1949	86.67	Jan. 12, 1951	88.94	Jan. 31, 1952	91.50
Feb. 16, 1950	*87.28				
Well C-51 (62-J)					
Owner: W. Hysinger.					
Mar. 11, 1949	96.27	Jan. 12, 1951	98.55	Jan. 31, 1952	104.78
Feb. 16, 1950	98.35	Jan. 25, 1952	104.80		
Well C-68 (56)					
Owner: N. F. Cleavinger.					
Sept. 13, 1940	101.33	Feb. 22, 1945	97.10	July 17, 1950	107.1
Nov. 12, 1942	97.30	Mar. 13, 1947	99.48	Jan. 12, 1951	*124.23
Feb. 23, 1943	96.78	Feb. 19, 1948	101.04	Jan. 31, 1952	108.75
Feb. 4, 1944	97.29	Mar. 11, 1949	102.73		

\* Affected by pumping of nearby well.



Table 10.- Water levels in wells in Lamb County--Continued

Date	Water level	Date	Water level	Date	Water level
Well C-72 (57)					
Owner: E. M. Gettys.					
Nov. 10, 1942	87.56	Mar. 2, 1946	88.67	July 17, 1950	97.8
Feb. 23, 1943	86.88	Mar. 13, 1947	89.44	Jan. 12, 1951	89.35
Feb. 7, 1944	87.40	Feb. 19, 1948	91.10	Jan. 25, 1952	96.05
Feb. 22, 1945	87.27	Mar. 11, 1949	92.18		
Well C-74 (57-D)					
Owner: Gettys Bros.					
Aug. 13, 1942	93.95	Feb. 22, 1945	88.90	Mar. 11, 1949	94.30
Nov. 10	89.22	Mar. 2, 1946	90.54	Jan. 12, 1951	97.00
Feb. 23, 1943	88.42	Mar. 13, 1947	93.24	Jan. 25, 1952	100.53
Feb. 7, 1944	88.93	Feb. 19, 1948	92.86		
Well C-119 (60)					
Owner: A. A. Parish.					
June 24, 1937	69.12	Nov. 19, 1941	69.49	Jan. 14, 1947	70.38
Aug. 30	69.37	Mar. 16, 1942	68.84	Feb. 19, 1948	71.79
June 7, 1938	69.79	Nov. 10	67.30	Mar. 11, 1949	74.56
Jan. 27, 1939	69.42	Feb. 4, 1943	66.80	Feb. 16, 1950	74.57
Sept. 15	71.70	Feb. 8, 1944	67.97	Jan. 25, 1952	78.51
Nov. 13, 1940	71.38	Feb. 22, 1945	68.07		
Mar. 20, 1941	70.54	Feb. 28, 1946	69.39		
Well C-167 (62-H)					
Owner: R. W. Schaeffer.					
Nov. 9, 1942	82.22	Mar. 2, 1946	82.80	Feb. 16, 1950	92.32
Feb. 23, 1943	81.92	Mar. 18, 1947	83.88	Oct. 13	94.1
Feb. 1, 1944	82.00	Feb. 19, 1948	86.06	Jan. 12, 1951	97.64
Feb. 23, 1945	81.88	Mar. 11, 1949	89.33	Jan. 31, 1952	95.43
Well C-242 (76)					
Owner: F. E. Gladden.					
June 24, 1937	76.30	Mar. 16, 1942	71.69	Mar. 18, 1947	69.13
Jan. 10, 1938	75.47	Nov. 10	70.93	Feb. 18, 1948	71.34
June 7	77.54	Feb. 4, 1943	70.39	Mar. 14, 1949	73.98
Jan. 27, 1939	75.73	Feb. 8, 1944	69.75	Feb. 16, 1950	75.45
Mar. 20, 1941	75.15	Mar. 2, 1946	68.89		

Table 10:- Water levels in wells in Lamb County--Continued

Date	Water level	Date	Water level	Date	Water level
Well D-10 (63)					
Owner: Kizer.					
May 27, 1937	66.05	Feb. 16, 1950	73.25	Jan. 25, 1952	74.85
Mar. 22, 1949	70.43				
Well D-14 (61)					
Owner: Ralph Roper.					
May 27, 1937	77.43	Feb. 16, 1950	80.12	Jan. 25, 1952	85.27
Mar. 22, 1949	79.18	Jan. 12, 1951	*86.27		
Well D-45 (63-B)					
Owner: H. B. Carson.					
Nov. 9, 1942	90.90	Feb. 23, 1945	91.50	Mar. 11, 1949	99.19
Feb. 23, 1943	90.74	Mar. 18, 1947	94.22	Jan. 25, 1952	105.90
Feb. 1, 1944	91.15	Feb. 19, 1948	96.14		
Well D-58 (62-F)					
Owner: Roberson Bros.					
Nov. 9, 1942	93.52	Mar. 18, 1947	93.37	Jan. 12, 1951	102.12
Feb. 23, 1943	93.50	Feb. 19, 1948	98.53	Jan. 31, 1952	106.80
Feb. 1, 1944	93.78	Mar. 11, 1949	101.20		
Feb. 23, 1945	93.67	Feb. 16, 1950	101.80		
Well D-60 (63-D)					
Owner: A. C. Brigance.					
Feb. 16, 1950	89.78	Jan. 31, 1951	*103.46	Jan. 25, 1952	89.20
Oct. 30	87.73				
Well D-88					
Owner: Mrs. A. Walker.					
Mar. 24, 1949	88.4	Mar. 24, 1950	89.0	May 21, 1951	100.3
Apr. 25	88.3	June 26	95.8	June 26	92.8
May 31	88.0	July 24	94.2	July 24	92.2
June 20	87.9	Aug. 25	92.3	Aug. 28	96.8
July 25	88.3	Sept. 25	91.9	Sept. 24	93.7
Sept. 30	90.4	Oct. 19	91.6	Oct. 24	92.3
Oct. 25	89.5	Nov. 24	91.4	Nov. 27	92.0
Nov. 25	89.2	Dec. 21	91.4	Dec. 26	92.0
Dec. 23	89.1	Jan. 23, 1951	91.4	Jan. 30, 1952	91.7
Jan. 25, 1950	89.1	Feb. 23	91.2	Feb. 25	91.8
Feb. 27	89.0	Mar. 22	91.2		

\* Affected by pumping of nearby wells.

Table 10:- Water levels in wells in Lamb County--Continued

Date	Water level	Date	Water level	Date	Water level
Well D-93 (64-E)					
Owner: J. D. Moore.					
Aug. 14, 1942	83.00	Feb. 23, 1945	83.00	Feb. 19, 1948	89.23
Nov. 9	82.90	Mar. 2, 1946	84.15	Jan. 12, 1951	97.15
Feb. 23, 1943	82.80	Mar. 18, 1947	85.81	Jan. 25, 1952	100.70
Well E-1					
Owner: Halsell Cattle Co.					
June 22, 1939	37.7	Apr. 22, 1940	37.9	Mar. 14, 1942	36.1
Aug. 15	37.7	Nov. 18	38.9	July 28	35.3
Oct. 13	37.9	Mar. 20, 1941	38.9	Nov. 30	34.5
Dec. 18	38.0	May 30	38.3	Feb. 4, 1943	34.3
Mar. 25, 1940	38.0	Nov. 19	37.0	Feb. 2, 1944	34.7
Well E-34 (231)					
Owner: V. Peterman.					
June 25, 1937	96.07	Dec. 18, 1939	96.37	Feb. 2, 1944	101.60
Jan. 21, 1938	96.56	Mar. 25, 1940	96.37	Mar. 2, 1946	94.21
Apr. 11	96.54	Nov. 18	96.60	Mar. 18, 1947	93.55
June 9	96.49	Mar. 20, 1941	96.28	Feb. 20, 1948	93.62
Sept. 19	96.52	May 30	96.31	Mar. 14, 1949	93.33
Mar. 9, 1939	97.43	July 30	96.24	Feb. 17, 1950	92.61
June 19	96.62	Nov. 19	96.11	June 25	96.10
Aug. 15	96.74	Mar. 14, 1942	95.72	Jan. 17, 1951	93.60
Oct. 12	96.41	July 28	95.63	Jan. 29, 1952	94.70
Well F-10					
Owner: Mrs. R. L. White.					
Mar. 24, 1949	36.5	Apr. 24, 1950	43.4	Apr. 23, 1951	43.8
Apr. 25	38.1	May 22	46.4	May 21	41.9
May 31	37.3	June 26	40.4	June 26	39.4
June 20	36.6	July 24	40.0	Aug. 28	39.4
July 25	35.7	Aug. 25	38.9	Sept. 25	37.7
Sept. 30	37.6	Sept. 25	37.6	Oct. 23	37.2
Oct. 25	36.9	Oct. 19	36.9	Nov. 27	36.7
Nov. 25	37.0	Nov. 24	35.2	Dec. 26	36.8
Dec. 23	36.5	Dec. 21	34.7	Jan. 30, 1952	36.4
Jan. 25, 1950	36.5	Jan. 23, 1951	34.7	Feb. 25	36.0
Feb. 24	36.3	Feb. 23	34.4		
Mar. 24	36.7	Mar. 22	36.6		

Table 10.- Water levels in wells in Lamb County--Continued

Date	Water level	Date	Water level	Date	Water level
Well F-13 (88)					
Owner: Halsell Cattle Co.					
Feb. 23, 1937	38.64	Dec. 18, 1939	37.98	Mar. 2, 1946	35.29
Aug. 12, 1938	39.03	Mar. 25, 1940	38.08	Mar. 18, 1947	34.80
Sept. 23	39.20	Dec. 2	38.64	Feb. 20, 1948	34.28
Oct. 24	39.21	Mar. 20, 1941	38.61	Mar. 14, 1949	36.16
Jan. 16, 1939	39.13	May 30	37.75	Feb. 17, 1950	36.29
Mar. 4	39.03	July 31	35.38	Jan. 17, 1951	34.76
Apr. 3	39.08	Nov. 19	33.60	June 21	35.38
June 22	39.29	Mar. 14, 1942	32.61	Jan. 29, 1952	35.83
Aug. 15	38.41	Feb. 8, 1944	34.00		
Oct. 13	37.90	Feb. 19, 1945	34.45		
Well F-41 (215-B)					
Owner: F. O. Masten.					
Sept. 3, 1942	40.06	Mar. 18, 1947	34.94	Aug. 1, 1950	38.60
Feb. 2, 1944	36.75	Feb. 20, 1948	33.72	Jan. 17, 1951	41.54
Feb. 19, 1945	36.25	Feb. 17, 1950	39.90	Jan. 29, 1952	35.35
Well F-146 (215-A)					
Owner: Welcom Starks.					
June 25, 1937	77.04	Mar. 10, 1939	76.74	July 30, 1941	75.90
Jan. 20, 1938	76.65	June 19	76.75	Nov. 19	75.36
Apr. 11	76.81	Oct. 13	76.67	Mar. 14, 1942	74.43
June 9	76.87	Dec. 9, 1940	76.72	Feb. 1, 1943	74.30
Sept. 19	76.93	Mar. 20, 1941	76.70	Feb. 22, 1944	74.30
Well G-163 (275)					
Owner: Mrs. E. L. Wilmer.					
Apr. 1, 1937	84.89	Feb. 17, 1950	89.71	Jan. 29, 1952	93.55
May 7	87.8	Sept. 1	97.9		
Mar. 22, 1949	88.56	Jan. 17, 1951	95.60		
Well H-30 (71)					
Owner: A. S. Nafzger.					
May 28, 1937	62.18	Feb. 8, 1944	59.58	Mar. 14, 1949	65.97
Aug. 12, 1942	61.51	Feb. 23, 1945	59.65	Feb. 16, 1950	67.22
Nov. 12	60.93	Mar. 18, 1947	61.79	Jan. 13, 1951	*74.02
Feb. 23, 1943	60.20	Feb. 20, 1948	63.79	Jan. 31, 1952	69.20

\* Affected by pumping of nearby wells.

Table 10:- Water levels in wells in Lamb County--Continued

Date	Water level	Date	Water level	Date	Water level
Well H-48 (70-A)					
Owner: I. V. Fent.					
June 14, 1938	64.15	Feb. 8, 1944	55.55	Feb. 20, 1948	58.05
Sept. 11, 1942	57.14	Feb. 23, 1945	55.42	Mar. 14, 1949	61.82
Nov. 12	56.57	Mar. 2, 1946	56.89	Sept. 21, 1950	72.06
Feb. 23, 1943	55.80	Mar. 18, 1947	58.83	Jan. 31, 1952	64.98
Well K-28 (236)					
Owner: B. O. McDaniel.					
Jan. 21, 1938	78.30	Feb. 4, 1943	73.45	Feb. 20, 1948	67.90
June 19	78.12	Feb. 22, 1944	71.84	Jan. 17, 1951	73.99
Nov. 18, 1940	78.94	Feb. 19, 1945	71.00	Jan. 28, 1952	73.90
Mar. 20, 1941	78.21	Mar. 2, 1946	71.52		
Mar. 14, 1942	75.51	Mar. 18, 1947	69.85		
Well K-65 (243)					
Owner: Les Barker.					
June 25, 1937	78.04	Jan. 16, 1947	74.60	Feb. 17, 1950	75.40
Feb. 19, 1945	75.30	Mar. 18	74.50	Jan. 17, 1951	75.52
Mar. 2, 1946	75.59	Feb. 10, 1948	74.00	Jan. 28, 1952	78.65
Well L-119					
Owner: J. E. Johnson.					
Mar. 24, 1949	56.7	Feb. 24, 1950	59.2	Apr. 23, 1951	68.9
Apr. 25	59.2	Mar. 24	59.5	May 21	64.7
May 31	58.1	June 26	63.8	June 26	62.9
June 20	57.7	July 24	63.8	July 24	62.3
July 25	57.4	Aug. 25	61.7	Aug. 28	64.6
Aug. 26	63.7	Sept. 25	61.2	Sept. 25	63.4
Sept. 30	60.4	Oct. 19	60.7	Oct. 23	63.0
Oct. 25	60.0	Nov. 24	60.2	Nov. 26	62.5
Nov. 25	59.7	Dec. 21	60.0	Dec. 26	62.5
Dec. 23	59.4	Jan. 23, 1951	59.8	Jan. 30, 1952	62.0
Jan. 25, 1950	59.3	Feb. 23	59.6	Feb. 25	61.9
Well L-167 (322)					
Owner: Floyd Dyer.					
Apr. 29, 1937	40.90	June 19, 1939	40.98	Jan. 29, 1944	35.35
Aug. 17	40.99	Aug. 15	40.82	Feb. 19, 1945	36.54
Jan. 20, 1938	40.75	Dec. 16, 1940	41.10	Mar. 2, 1946	39.88
Apr. 11	40.86	Mar. 20, 1941	41.10	Mar. 18, 1947	39.92
June 9	40.88	July 29	39.70	Feb. 20, 1948	43.10
June 29	40.91	Nov. 18	37.54	Mar. 14, 1949	46.37
Sept. 19	40.97	Mar. 26, 1942	36.75	Feb. 17, 1950	47.69
Jan. 16, 1939	40.83	July 28	36.64	Jan. 17, 1951	48.45
Mar. 10	40.88	Feb. 1, 1943	35.75	Jan. 29, 1952	49.19

Table 10.- Water levels in wells in Lamb County--Continued

Date	Water level	Date	Water level	Date	Water level
Well L-197 (341-A)					
Owner: H. A. Vick.					
Aug. 15, 1937	40.86	Aug. 15, 1939	41.63	Feb. 19, 1945	38.60
Sept. 22	40.90	Oct. 13	41.84	Mar. 2, 1946	41.72
Jan. 20, 1938	40.92	Dec. 16, 1940	42.69	Jan. 16, 1947	42.99
Apr. 11	41.13	Mar. 20, 1941	42.52	Mar. 18	41.21
June 21	41.38	May 30	42.23	Feb. 20, 1948	46.29
June 29	41.38	July 29	41.20	Feb. 17, 1950	51.12
Sept. 19	41.58	Nov. 18	39.92	Jan. 17, 1951	49.54
Jan. 16, 1939	41.60	Mar. 26, 1942	39.28	Jan. 29, 1952	55.10
Mar. 10	41.53	Feb. 1, 1943	38.34		
June 19	41.86	Jan. 29, 1944	37.84		
Well L-230					
Owner: J. T. Couch.					
Mar. 15, 1947	36.54	Jan. 17, 1951	44.73	Jan. 29, 1952	44.65
Feb. 17, 1950	40.85				
Well L-231 (307)					
Owner: J. T. Couch.					
May 5, 1937	31.70	Mar. 14, 1949	39.39	Jan. 17, 1951	44.50
Mar. 15, 1947	36.43	Feb. 17, 1950	41.54	Jan. 29, 1952	45.36
Feb. 20, 1948	36.53	Sept. 16	55.92		
Well L-333 (276)					
Owner: -- Bennett.					
Apr. 9, 1937	99.14	Feb. 17, 1950	105.73	Jan. 29, 1952	104.65
Mar. 22, 1949	101.57	Jan. 17, 1951	103.75		
Well M-34 (286)					
Owner: J. R. Coen.					
Apr. 14, 1937	74.95	Feb. 17, 1950	85.46	Jan. 29, 1952	87.10
Mar. 22, 1941	80.65	Jan. 17, 1951	86.08		
Well M-82 (281)					
Owner: Mrs. H. Ramage.					
Apr. 9, 1937	104.95	Jan. 17, 1951	109.00	Jan. 29, 1952	111.50
Mar. 22, 1949	106.71				
Well M-177 (296-A)					
Owner: J. S. Bridges.					
Mar. 17, 1947	71.38	Mar. 8, 1949	85.20	Jan. 29, 1952	98.95
Feb. 20, 1948	77.64	Jan. 17, 1951	97.16		



Table 11.- Analyses of water from wells in Lamb County, Tex.  
(Mineral constituents are in parts per million)

Well	Owner	Depth of well (ft.)	Date of collection	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Hardness as CaCO <sub>3</sub>	Percent sodium	Specific conductance (microhmhos at 25°C)	pH
A-78	W. Grizzle	120	May 12, 1952	39	-	39	33	34	280	37	20	2.4	11	0.28	362	233	24	569	7.8
A-91	J. G. Thompson	105	do	39	-	39	39	43	296	55	29	2.6	7.7	.31	416	258	27	650	7.6
A-104	Halsell Land & Cattle Co.	-	May 5, 1952	40	-	41	39	48	318	56	25	2.6	6.3	.19	428	263	28	672	7.7
A-105	E. K. Warren Estate	56	May 12, 1952	47	-	39	68	114	496	113	58	5.2	5.9	1.0	719	377	40	1,120	8.2
A-106	do	Lake	do	6.2	-	234	3,020	5,960	663	14,500	7,310	8.8	-	8.4	31,400	13,000	50	33,100	7.9
A-107	Halsell Land & Cattle Co.	53	do	68	-	69	109	241	444	437	218	4.8	4.8	.0	1,310	620	46	2,240	7.6
B-25	J. D. Nix	200	Mar. 31, 1937	-	-	-	-	-	262	15	13	-	-	-	257	-	-	-	-
B-88	Mrs. J. Lewis	187	Mar. 31, 1952	37	-	38	33	27	286	22	12	2.0	11	.08	330	230	20	525	7.9
B-116	Mrs. J. F. Kelly	180	Mar. 31, 1937	-	-	-	-	-	232	18	17	-	-	-	242	-	-	-	-
B-153	Halsell Land & Cattle Co.	-	May 5, 1952	36	-	40	33	37	282	41	23	2.2	5.9	.22	370	236	26	588	7.8
B-158	Virgil Lewis	173	do	38	-	40	33	35	286	33	22	2.6	4.8	.50	356	236	24	586	8.0
*B-169	Southwestern Public Service Co.	193	Oct. 21, 1951	45	-	118	154	98	240	65	65	-	-	-	-	272	-	-	-
*B-172	do	193	Oct. 5, 1951	51	-	124	196	170	290	109	91	-	-	-	-	320	-	-	-
C-38	O. B. Durham	230	Apr. 2, 1952	54	-	22	33	20	205	29	18	2.2	5.0	.20	297	191	18	546	8.4
C-72	E. M. Gettys	224	Mar. 31, 1937	-	-	-	-	-	256	a	15	-	-	-	233	-	-	-	-
C-119	A. A. Parish	220	June 24, 1937	-	-	-	-	-	-	18	22	-	-	-	-	-	-	-	-
C-129	A. C. Loftus	200	Apr. 2, 1952	39	-	20	40	14	b224	21	18	3.6	5.0	.05	283	214	12	568	8.6
C-205	E. W. Walden	230	May 5, 1952	38	-	50	32	17	294	22	14	2.2	5.0	.36	344	256	13	544	7.7
C-263	W. D. Roebuck	175	Mar. 30, 1937	-	-	-	-	-	305	48	32	-	-	-	368	-	-	-	-
D-52	A. C. Light	240	Apr. 2, 1952	52	-	44	31	22	282	26	12	2.4	5.0	.16	350	238	17	533	7.7
D-132	City of Olton	200	Mar. 1, 1945	33	0.12	59	29	12	7.9	22	20	2.8	6.8	-	335	266	8	548	7.7
E-21	City of Sudan	134	Oct. 7, 1937	-	-	68	23	55	238	87	69	.5	.8	-	420	264	31	-	-
E-21	do	134	Mar. 1, 1945	42	.00	82	23	30	282	66	50	1.2	1.5	-	453	299	18	700	7.7
E-35	L. R. Capps	160	Mar. 12, 1937	-	-	-	-	-	-	60	44	-	-	-	338	163	49	-	-
E-35	do	160	Oct. 7, 1937	-	-	29	22	71	244	48	43	1.6	3.5	-	-	-	-	-	-
*F-7	Southwestern Public Service Co.	189	Oct. 27, 1951	64	-	190	110	316	278	139	198	-	-	-	-	300	-	-	-
F-13	Halsell Land & Cattle Co.	42	May 5, 1952	40	-	54	64	62	530	57	16	5.6	2.0	.44	585	398	25	932	7.2
F-47	Mike Carter	210	June 19, 1952	58	-	42	29	53	315	45	18	2.0	4.5	-	406	224	34	632	7.6
F-104	Mrs. M. V. Reynolds	210	May 2, 1952	55	-	68	52	70	213	208	102	-	.5	-	680	384	28	1,140	7.9
F-119	City of Amherst	210	Oct. 6, 1937	-	-	56	54	40	270	90	90	1.4	2.9	-	467	361	19	-	-
F-119	do	210	Mar. 1, 1945	51	.08	66	52	41	294	93	98	2.0	6.3	-	577	378	18	920	7.7
F-140	Halsell Land & Cattle Co.	21	May 29, 1952	74	-	68	80	89	514	108	98	5.2	8.5	-	810	498	28	1,290	7.5

Table 11.- Analyses of water from wells in Lamb County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Hardness CaCO <sub>3</sub>	Percent sodium as dium (microhmhos at 25°C)	Specific conductance (microhmhos at 25°C)	pH
F-142	Southwestern Public Service Co.	201	May 3, 1952	69	-	42	52	84	354	119	54	4.4	0.0	-	602	319	36	941	7.5
*F-144	do	205	Nov. 26, 1951	58	-	148	244	177	274	170	124	-	-	-	-	392	-	-	-
F-145	do	Spring	May 1, 1952	33	-	94	239	542	676	1,130	470	-	1.0	-	2,840	1,220	49	4,110	7.8
G-2	A. L. Crawford	183	Mar. 30, 1937	-	-	-	-	-	-	48	29	-	-	-	-	-	-	-	-
G-3	George Woods	204	May 5, 1952	47	-	33	47	29	302	43	25	2.8	5.1	0.28	387	276	19	618	7.6
G-32	L. D. Bartlett Farms	200	May 2, 1952	50	-	42	36	16	268	43	16	-	.2	-	347	253	12	625	8.0
G-38	F. Dougherty	67	do	47	-	87	6.6	17	290	24	9.5	-	6.0	-	360	244	13	561	7.9
G-48	Eli Young	221	Apr. 1, 1937	-	-	-	-	-	-	704	355	-	-	-	-	-	-	-	-
G-98	Mrs. Eva Wells	193	do	-	-	-	-	-	-	62	56	-	-	-	-	-	-	-	-
G-135	R. E. Butler	214	Oct. 12, 1951	-	-	-	-	-	410	-	510	-	-	-	-	1,220	-	4,520	7.3
G-163	Mrs. E. L. Wilmer	170	Apr. 1, 1937	-	-	-	-	-	293	216	104	-	-	-	709	-	-	-	-
G-163	do	170	Apr. 3, 1952	55	-	34	41	83	269	123	50	2.0	7.3	.20	527	254	36	863	8.5
G-179	L. T. Green	150	Apr. 13, 1937	-	-	-	-	-	275	59	28	-	-	-	352	-	-	-	-
G-187	J. W. Warren	199	Apr. 3, 1952	58	-	46	48	71	322	105	61	2.0	2.0	-	551	312	33	852	8.3
H-9	C. A. Davis	195	May 2, 1952	41	-	48	33	13	303	13	14	-	2.0	-	324	256	10	546	7.5
H-37	W. B. Eby	202	May 28, 1937	-	-	-	-	-	390	82	15	-	-	-	459	-	-	-	-
H-63	B. C. Kessie	210	Apr. 3, 1952	56	-	24	23	22	166	26	16	1.4	15	.07	280	154	23	572	8.6
J-21	W. O. Holman	62	Apr. 18, 1952	40	-	44	29	68	286	72	40	3.6	2.0	.15	452	229	39	720	8.1
J-22	L. Pryor	130	do	13	-	146	177	849	767	1,020	880	2.8	.0	.75	3,550	1,090	63	5,270	7.6
J-23	Case Bros.	248	Feb. 1937	-	-	-	-	-	317	851	690	-	-	-	2,545	-	-	-	-
J-23	do	248	Oct. 7, 1937	-	-	36	25	56	258	57	24	1.9	4.6	-	332	192	39	-	-
J-24	S. A. Williams	101	June 19, 1952	43	-	56	33	33	270	56	40	2.0	6.6	-	429	275	21	665	7.7
J-25	H. M. Black	172	do	28	-	22	23	94	280	37	52	2.8	6.9	-	406	150	58	694	7.8
K-78	C. B. Jaques	80	Oct. 18, 1951	-	-	-	-	-	231	-	755	-	-	-	-	1,730	-	4,560	7.6
K-82	A. J. Ogerly	110	Apr. 18, 1952	52	-	73	56	102	245	70	250	2.4	.5	.21	738	412	35	1,330	8.2
K-83	W. B. Seymore	50	do	79	-	125	108	196	299	412	340	2.8	27	1.0	1,440	756	36	2,270	7.6
K-84	J. Foltyn	100	do	70	-	552	466	884	236	3,020	1,310	4.4	23	3.4	6,450	3,290	37	8,030	7.5
K-85	do	60	do	12	-	180	204	455	344	1,070	620	2.0	.5	2.8	2,710	1,290	43	3,980	7.8
K-86	S. B. Pinkerton	92	Oct. 6, 1937	-	-	70	54	76	326	109	121	1.6	7.0	-	599	396	29	-	-
K-87	Robert Smith	Lake	June 5, 1952	6.4	-	711	815	5,030	74	3,860	8,500	2.0	-	3.3	19,000	5,120	68	26,400	8.2
K-88	Paul Lewis	78	June 19, 1952	48	-	76	42	136	254	240	128	3.6	11	-	821	362	45	1,290	7.6
K-89	D. D. Trotter	54	June 5, 1952	30	-	70	145	298	293	632	350	8.0	7.2	-	1,680	770	46	2,580	8.0
K-90	Don Brewster	100	do	54	-	77	74	133	315	219	184	3.2	4.0	-	985	496	37	1,590	7.8
K-91	Mrs. H. A. Gilliam	102	Oct. 7, 1937	-	-	130	74	130	197	302	300	2.2	7.8	-	1,040	628	31	-	-
L-8	Mrs. W. Alexander	198	Apr. 3, 1952	60	-	251	246	742	410	1,780	748	2.4	.5	.85	4,030	1,640	50	5,440	8.0
L-11	Walter F. Martin	188	Nov. 14, 1951	-	-	-	-	-	301	-	480	-	-	-	-	1,340	-	3,340	7.3
L-14	E. N. Pickens	200	Oct. 12, 1951	-	-	-	-	-	341	-	540	-	-	-	-	1,110	-	3,910	7.5

Table 11.- Analyses of water from wells in Lamb County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Hardness as CaCO <sub>3</sub>	Percent sodium	Specific conductance (micromhos at 25° C)	pH
L-15	Z. T. Young	208	Apr. 3, 1952	60	-	216	211	755	326	1,670	732	3.2	1.5	-	3,810	1,410	54	5,260	8.0
L-23	Mrs. C. Willis	216	do	58	-	32	46	201	337	266	100	3.2	2.5	0.26	884	269	62	1,360	8.4
L-59	A. D. Short	209	do	29	-	56	38	52	272	112	45	1.4	2.0	.54	506	296	28	793	8.0
L-127	George P. Wash	194	do	58	-	52	35	65	320	73	48	2.2	3.0	.31	501	274	34	774	8.6
L-130	C. H. Meuser	204	Apr. 28, 1937	-	-	-	-	-	-	88	82	-	-	-	-	-	-	-	-
L-139	City of Littlefield	130	Oct. 6, 1937	-	-	61	41	60	310	81	74	-	-	-	474	321	-	-	-
L-139	do	130	Mar. 1, 1945	42	0.04	62	39	46	303	77	69	2.0	1.8	-	502	315	23	802	7.7
L-167	Floyd Dyer	100	Oct. 6, 1937	-	-	70	60	81	270	154	147	2.3	2.2	-	650	421	29	-	-
L-173	C. W. Smiley	155	May 1, 1937	-	-	-	-	-	293	319	100	-	-	-	707	-	-	-	-
L-183	C. O. Griffin	170	Mar. 29, 1947	-	-	308	218	294	324	1,240	530	-	1.0	-	2,750	1,660	28	374	-
L-185	A. P. Duggan	176	Apr. 3, 1952	58	-	151	125	163	296	610	255	1.6	4.0	.02	1,510	890	28	2,240	7.8
L-191	A. F. Wedel	158	Apr. 29, 1937	-	-	-	-	-	-	308	305	-	-	-	-	-	-	-	-
L-229	Rea Scott	110	May 2, 1952	61	-	73	83	80	295	210	168	-	1.0	.08	872	524	25	1,360	7.5
L-276	Ashley Cox	160	do	52	-	160	187	323	298	978	430	-	2.8	.36	2,280	1,170	38	3,280	7.5
L-330	N. S. Young	185	do	54	-	62	32	67	281	115	57	-	2.5	-	532	286	34	844	7.6
L-331	A. B. Moseley	80	June 19, 1952	40	-	40	75	129	354	222	102	5.6	12	.89	825	408	41	1,340	7.9
L-333	-- Bennett	126	Oct. 5, 1937	-	-	60	29	41	270	73	40	1.3	1.2	-	378	269	25	-	-
M-9	S. C. Taibert	160	Apr. 14, 1937	-	-	-	-	-	183	214	94	-	-	-	445	-	-	-	-
M-19	T. B. Elder	150	Apr. 13, 1937	-	-	-	-	-	-	78	34	-	-	-	-	-	-	-	-
M-23	L. C. O'Neil	150	Apr. 9, 1937	-	-	-	-	-	-	136	66	-	-	-	-	-	-	-	-
M-31	T. B. Elder	150	Apr. 13, 1937	-	-	-	-	-	323	144	54	-	-	-	553	-	-	-	-
M-33	do	200	June 19, 1952	61	-	63	53	32	296	95	69	2.0	1.5	.26	546	375	16	861	7.5
M-43	P. E. Roddy	200	May 2, 1952	54	-	62	56	56	290	142	86	-	.2	.03	610	385	24	994	7.5
M-99	-- O'Brien	220	June 19, 1952	60	-	55	46	46	307	67	71	2.0	.5	.32	534	326	24	828	7.5
M-143	W. O. Stacy	155	Oct. 10, 1937	-	-	46	38	72	274	116	53	1.9	2.0	-	463	271	36	-	-
M-148	W. T. Hopkins	-	May 6, 1937	-	-	-	-	-	-	128	68	-	-	-	-	-	-	-	-
M-153	J. P. Ratliff	180	do	-	-	-	-	-	281	104	54	-	-	-	462	-	-	-	-
M-169	S. N. Twilley	145	May 7, 1937	-	-	-	-	-	171	260	98	-	-	-	662	-	-	-	-

- a/ Sulfate less than 10 ppm.
- b/ Includes equivalent of 10 ppm carbonate (CO<sub>3</sub>)
- c/ Includes equivalent of 52 ppm carbonate (CO<sub>3</sub>)
- d/ Includes equivalent of 7 ppm carbonate (CO<sub>3</sub>)
- e/ Includes equivalent of 22 ppm carbonate (CO<sub>3</sub>)
- f/ Includes equivalent of 9 ppm carbonate (CO<sub>3</sub>)
- g/ Includes equivalent of 18 ppm carbonate (CO<sub>3</sub>)
- \* Analyses by Southwestern Public Service Co.

