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GROUND-WATER RESOURCES OF BRAZORIA COUNTY, TEXAS

By

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C. R. Follett

Prepared in cooperation with the United States Department of the Interior, Geological Survey

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ILLUSTRATION

Map showing wells and springs in Brazoria County, Texas

By

C. R. Follett

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INTRODUCTION

Location, general features of the area, and economic development

Brazoria County, in southeastern Texas, is bounded on the north by Fort Bend and Harris Counties, on the east by Galveston County, on the south by the Gulf of Mexico, and on the west by Matagorda County. The land surface is relatively flat but rises gently from the Gulf to a maximum altitude of about 60 feet in the northern and northwestern parts of the county. Most of the area consists of open prairie but a part is covered with hardwood timber.

The county has an area of 1,441 square miles and in 1940, according to the U. S. Bureau of the Census, had a population of 48,000, or an average of 33 persons to the square mile. The population has increased materially since 1940 as a result of industrial expansion and additional oil development. The six largest towns are Freeport, Velasco, Alvin, Lake Jackson, Angleton, and West Columbia. Smaller towns are Brazoria, Sweeny, East Columbia, Damon, and Pearland.

Brazoria County is one of the leading rice-growing counties in Texas; it produced 624,306 barrels in 1945. Other marketable crops include cotton, corn, grain sorghum, figs, pecans, sugar cane, fresh vegetables, and hay. Much of the area is devoted to livestock. The major products are beef cattle, hogs, and chickens, but dairying is also an important source of income.

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The occurrence and development of oil, natural gas, sulfur, and salt have made Brazoria County one of the leading mineral-producing counties of the State. According to the Texas Almanac for 1947-48, the total production of oil amounted to 29,308,106 barrels in 1946, and this was exceeded by only three counties in Texas. Large quantities of sulfur are mined by the circulating hot water method. Magnesium and various other chemicals are produced in plants near Freeport. Oyster shells, dredged from the adjoining bays, are used for industrial processing and for road building.

Previous reports

Previous reports on ground water and its development in Brazoria County include two mimeographed publications giving detailed records of several hundred wells 1/ prepared in connection with the cooperative program of ground-water

1/ Heuser, J. F., Records of wells, drillers' logs, water analyses, and map showing locations of wells in Brazoria County, Texas (west of the Brazos River), Texas State Board of Water Engineers in cooperation with the U. S. Geological Survey, mimeographed, 1937.

Turner, Samuel F., and Livingston, Penn, Records of wells, drillers' logs, water analyses, and map showing locations of wells in Brazoria County, Texas (east of the Brazos River), Texas State Board of Water Engineers in cooperation with the U. S. Geological Survey, mimeographed, 1939. investigations in Texas by the State Board of Water Engineers and the U. S. Geological Survey; and two confidential manuscript reports relating to ground-water supplies for defense projects near Freeport and Sweeny. The public water supplies of the county are discussed in considerable detail in a report on the public water supplies of eastern Texas 2/. The report was published in mimeographed form in two volumes by the Texas State Board of Water Engineers, in 1945.

Acknowledgments

Grateful acknowledgment is due the owners of wells in Brazoria County who have given their cooperation in the collection of these data. The city water superintendents, well drillers, and the representatives of industrial plants and oil companies also have contributed much valuable information.

The field work was done under the supervision of W. N. White, retired district engineer of the U. S. Geological Survey in charge of ground-water investigations in Texas. The water analyses were made under the supervision of E. W. Lohr or W. W. Hastings, chemists in the Quality of Water Division of the U. S. Geological Survey, and the discussion of quality of water was prepared by B. Irelan, associate chemist, Austin, Texas.

Precipitation

According to the records of the U. S. Weather Bureau, the average annual precipitation at Angleton, near the center of Brazoria County, during the 33-year period from 1914 to 1946, inclusive, was 48.33 inches. The amounts of precipitation during the four wettest years were as follows: 66.79 inches in 1919, 67.96 inches in 1922, 70.88 inches in 1941, and 82.64 inches in 1946. The amounts during the four driest years were 35.12 inches in 1916, 22.78 inches in 1917, 33.71 inches in 1927, and 35.02 inches in 1928. The following table gives the records of monthly precipitation at Angleton, Brazoria County, Texas.

2/ Sundstrom, R. W., Hastings, W. W., and Broadhurst, W. L., Public water supplies in eastern Texas: U. S. Geol. Survey Water-Supply Paper 1047, in press. Precipitation in inches, 1895-96 and 1913-1947, at Angleton, Brazoria County, Texas

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Year	Jan.	Feb.	Mar.	Apr.	Mav	June	Julv	Aug.	Sent.	Oct.	Nov.	Dec.	Anneal
1895			-	-	_	5.13	1.47	4.49	1.96	3.25	9.35	3.60	
1896	4.25	5,90	5.75	-	-	-	-	-	-	_	-		_
1913	-	_	-	-	-	-	1.57	8.60	10.71	17.77	4.58	5.17	
1914	•49	3.16	2.93	15.16	7.89	.26	1.73	8.49	4.34	3.61	8.02	4.19	60.27
1915	2.96	4.03	3.53	2.25	2.66	.00	3.95	13.87	6.29	2.49	2.04	4.74	48.81
1916	1.62	.13	• 35	1.63	6.49	5.37	5.66	5.43	3.55	1.08	1.68	2.13	35.12
1917	2.38	2.98	.75	2.37	6.04	.44	3.12	1.66	1.15	•49	•84	•56	22.78
1918	.27	2.06	2.30	5.65	1.86	1.41	2.48	5.03	2.87	5.67	6.91	3.93	40.44
1919	6.20	2.59	9.21	1.35	5.27	16.57	6.55	5.42	3.62	5.93	2.30	1.78	66.79
1920	6.12	1.85	1.36	•54	3.64	5.83	4.76	9.10	2.49	6.81	3.83	3.03	49.36
1921	3.32	•43	3.97	3.88	1.25	8.12	3.94	1.60	3.66	1.05	3.27	3.73	38.22
1922	5.87	1.65	8.49	2.17	4.98	15.05	9.29	2.92	5.67	7.02	1.80	3.05	67.96
1923	1.36	6.28	6.07	5.39	1.49	5.59	8.75	2.85	6.88	3.55	3.79	10.72	62.72
1924	4.74	5.13	2.24	1.15	4.64	4.62	1.06	3.94	1.83	•02	1.01	8.36	38.74
1925	3,25	.27	•78	1.23	1.49	3.73	6.52	2.71	7.06	10.54	5.31	3.72	46.61
1926	3.55	•99	6.65	2.57	3.83	2.31	5.32	2.47	1.59	3.98	1.67	3.50	38.43
1927	1.40	1.85	1.34	2.78	•14	4.42	2.72	•09	6.74	2.45	2.12	7.66	33.71
1928	•78	6.05	.74	1.38	2.75	4.75	•40	2.63	4.51	2.66	3.51	4.86	35.02
1929	4.54	1.29	5.08	2.94	8.35	2.21	4.45	3.17	1.82	5.41	6.71	5.08	51.05
1930	3.71	2.72	1.23	1.73	5.73	•45	2.95	2.56	3.61	9.79	4.93	3.75	43.16
1931	4.28	4.73	3.12	1.27	2.59	1.36	5.03	1.34	•96	3.99	3.07	9.07	40.81
1932	5.85	4.24	1.12	5.58	2.40	1.33	•79	12.55	5.66	2.71	1.66	2.73	46.62
1933	2.18	4.87	2.92	•40	2.96	• 64	12.34	2.85	3.87	3.45	2.24	3.77	42.49
1934	9.59	3.24	4.17	4.95	4.09	.12	6.95	3.38	5.31	•47	10.30	4.57	57.14
1935	1.87	5.14	1.95	3.62	5.01	5.18	5.17	•31	12.09	4.37	1.08	8.87	54.66
1936	2.03	2.31	2.31	3.45	9.43	•56	8.11	3.57	5.19	2.56	2.61	3.93	46.06
1937	2.34	•92	4.86	.71	•45	4.85	1.81	3.94	3.73	3.52	3.41	7.44	37.98
1938	4.93	1.83	1.08	1.46	5.19	4.01	2.28	2.87	6.70	4.34	3.52	2.87	41.08
1939	4.18	3.13	1.03	2.05	2.69	4.94	15.50	1.86	3.00	1.07	2.12	2.27	43.84
1940	2.30	3.72	1.33	1.79	1.68	1.47	4.43	2.11	4.46	7.25	7.20	7.58	45.32
1941	2.32	3.32	5.13	7.28	2.64	4.16	8.64	6.41	17.49	9.22	2.34	1.93	70.88
1942	1.75	4.87	3.19	2.12	• 32	5.39	9.16	7.24	5.72	• 63	3.84	3.18	47.41
1943	3.10	2.63	3.60	2.96	1.01	2.99	9.24	1.67	2.01	•56	7.26	5.69	42.72
1944	10.46	1.97	8.10	• 90	8.02	1.15	• 68	8.22	8.39	•08	3.87	5.29	57.13
1945	1.41	3.60	6.42	5.65	4.01	3.02	7.69	12.64	2.15	4.12	1.11	7.09	58.9T
1946	7.61	3.82	3.92	2.65	11.22	6.44	8.71	5.50	10.44	6.13	13.21	2.99	82.64
1947	3.05	1.00	5.54	1.96	10.23	2.02	4.78	9.37	2.49	1.30	5.81	4.51	52.06

GENERAL PRINCIPLES OF THE OCCURRENCE AND MOVEMENT OF GROUND WATER

For discussions of the fundamental principles of the occurrence and movement of ground water the reader is referred to papers by Meinzer and Wenzel 3/.

Ground water is derived chiefly from water that falls as rain and snow. A part of the water from precipitation runs off in streams; a part is returned to the atmosphere by evaporation and transpiration of trees and other plants; and a part sinks to the zone of saturation, in which all the interstitial openings of the rocks are filled with water.

In most places ground water is slowly but steadily moving under the influence of gravity from areas of intake to areas of discharge. In the more permeable rocks, such as coarse sand, gravel, and cavernous limestone, the water moves with comparative freedom although the movement generally is very slow as compared with the flow of a surface stream. Permeable rocks are capable of yielding abundant supplies of water to wells. In less permeable rocks, such as shale or clay, molecular attraction retards the movement of the water, which may be almost in the finitely slow. Such rocks yield little or no water to wells.

In the outcrop areas of water-bearing beds, water is generally unconfined and does not rise in wells above the water table, which is the upper surface of the zone of saturation and the level at which water is first encountered.

The water table is not a level surface, but it usually slopes in about the same direction as the slope of the land surface. In places where the land surface is lower than the water table in adjacent areas, such as along many streams, some of the ground water emerges in seeps and springs.

In some localities perched water accumulates above the main zone of saturation, supported by local bodies of relatively impermeable material, especially during the winter and spring when the rates of evaporation and transpiration are low. Perched water supplies are usually small and are not dependable.

In areas down the dip of the water-bearing beds, where the rocks are under cover and are inclined between relatively impermeable strate, the water usually is under artesian pressure and will rise in wells above the level at which it is first encountered. If the altitude to which the water will rise is greater than the altitude of the land surface, flowing wells may be obtained.

Most wells are subject to water-level fluctuations of varying magnitude. These fluctuations are due to many different causes, but most of them are a manifestation of a change in the ratic between the rate of ground-water intake or recharge and the rate of loss or discharge. Most water-table wells are supplied largely from precipitation through intake areas close at hand and respond with only a moderate lag to changes in rainfall. In very shallow wells the water level may rise several feet after heavy rains and decline until the wells go dry during prolonged droughts. Artesian wells that draw from sand or sandstone beds at considerable distances from the outcrops of the water-bearing beds seldom are affected by seasonal or yearly changes in rainfall, although if not too far from the outcrop they may respond to the effect of a series of wet or dry years. In general, however, the major fluctuations in pressure in artesian wells and accompanying rise and fall in water

3/ Meinzer, O. E., The occurrence of ground water in the United States: U.S. Gecl. Survey Water-Supply Paper 489, 1923; Outline of methods for estimating groundwater supplies: U. S. Geol. Survey Water-Supply Paper 638-C, pp. 99-145, 1931. Wenzel, L. K., Methods for determining permeability of water-bearing mate-

rials: U.S. Geol. Survey Water-Supply Paper 887, 1942. Meinzer, O. E., and Wenzel, L. K., Physics of the Earth, vol. 9, Hydrology,

pp. 385-478, McGraw-Hill, New York, 1942.

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levels are due to withdrawals of ground water from the well itself or from other wells that tap the same water-bearing beds.

When a well is pumped the water level in the well declines end a hydraulic gradient is developed toward the well from all directions. It is this hydraulic gradient that causes water to flow toward the well. Within limits the amount of water that will enter a well varies directly with the amount the water level is lowered. For example, if a pumped well in fairly permeable material will yield 200 gallons a minute when the water level is lowered 20 feet, it will yield about 100 gallons a minute when the water level is lowered 10 feet. This ratic between the yield and the drawdown is called the specific capacity and is generally expressed as the yield in gallons a minute per fect of drawdown.

Large withdrawals of ground water are accompanied by a general lowering of the water table or artesian pressure surface, and a cone of depression gradually spreads in all directions from the center of pumping until large areas may be affected. However, this is usually considered not very serious unless the rate of decline persists without a corresponding increase in the rate of pumping or the trend is such as to indicate that the pumping lift may eventually exceed the economic limit. Some beds contain fresh water near the outcrop and salty water down the dip; others are overlain or underlain by and are imperfectly separated from beds carrying salty water, and excessive pumping may lead to the invasion of salt water into the wells.

GROUND-WATER RESERVOIRS IN BRAZORIA COUNTY

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Brazoria County is underlain by a thick sequence of unconsolidated sediments consisting mostly of sand and clay. They dip generally to the southeast but those near the surface have only a gentle dip.

The Beaumont clay, of Pleistocene age, crops out in northern and eastern Brazoria County. It is overlain by surficial deposits of alluvium, wind-blown sand, and silt in the valleys of the Brazos and St. Bernard Rivers and in a wide belt along the Gulf Coast. The Beaumont clay is underlain in downward succession by the Lissie formation, the so-called Willis-Goliad sand, and older rocks that generally contain mineralized water. Beds of sand or sand and gravel in the Willis-Goliad sand and younger deposits, confined between layers of clay and shale, comprise the principal ground-water reservoirs in the county. Most wells draw from surficial deposits or sands in the Beaumont clay; a smaller number tap the Lissie formation, and only a few wells in the northern part of the county are known to draw from the Willis-Goliad sands.

The aquifers in the Beaumont clay and older formations, which are confined between beds of relatively impermeable clay, dip toward the Gulf at angles greater than the slope of the land surface. Hence, most of the wells, except the very shallow ones, encounter water under artesian pressure. The pressure formerly was sufficient to cause a flow from the deeper wells, but large withdrawals of water during recent years in Galveston and Harris Counties, as well as in Brazoria County, have caused a regional decline in pressure and most of the wells have ceased flowing.

PRESENT DEVELOPMENT OF WATER SUPPLIES FROM WELLS

Public supplies

All the public water supplies in Brazoria County are obtained from wells. Alvin, Angleton, Freeport, Lake Jackson, Velasco, and West Columbia have two wells each, and the combined pumpage for these towns averages about 1,000,000 gallons a day (see table on page 7). The water systems are discussed in the report on the public water supplies of eastern Texas 4/. Brazoria and Sweeny are new supplied from privately cwned wells, but the two towns have created watercontrol and improvement districts which will soon operate public water plants. The smaller towns and villages depend on privately cwned wells.

Industrial supplies

The first large industrial development in Brazeria County was that of the Freeport Sulphur Company at Brans Mound, 3 miles southwest of Freeport. The water used for mining sulphur at that plant was obtained from several wells about 200 feet deep, some of which were in the vicinity of the plant and others were north of the plant along Jones Creek. About 1925 the plant was moved to Hoskins Mound 15 miles northeast of Freeport, and since then a part of the water supply has been obtained from wells and a part from surface sources. The wells at the Hoskins Mound plant (Nos. 467-478) range in depth from 239 to 628 feet and yield from 80 to 550 gallons a minute each. Two sand zones furnish most of the water; one zone lies between 100 and 250 feet and the other between 535 and 620 feet below the land surface. The pumpage from the wells was estimated to be about 2,500,000 gallons a day until 1942, but it has increased and was about 3,300,000 gallons a day in 1947.

The Jefferson Lake Sulphur Company, Inc., started operations in 1937 at Clemens Dome, about 3 miles south of Brazoria. The water used at the mine is obtained from wells which are about 500 feet deep. Altogether seven wells have been put down, of which three (Nos. 147, 149, and 150) were still in use in 1946. The pumpage averages about 1,500,000 gallons a day.

The next large industrial development to be put into operation in the county was that of the Dow Chemical Company, which was started in 1940 near Freeport. During the early part of World War 2, the development was expanded to include four large plants, two of which were owned by the Defense Plant Corporation. By 1943 the company had completed 27 wells. Twenty-two of the wells range in depth from 200 to 270 feet and furnished fresh water; the other five are about 1,100 feet deep and furnished brackish or salty water. The wells were pumped at rates ranging from 200 to 500 gallons a minute each, and in June 1941 the total pumpage was estimated to average 3,000,000 gallons a day. As the plant was expanded the draft was increased. The average daily pumpage in 1942-43 was much greater than it was in 1941, but figures are not available to indicate the amount of the increase. Early in 1944 the water supply for the plant was supplemented with water from the Brazos River, and withdrawal from the wells was reduced. In the latter part of 1944 and during 1945-46 the withdrawal of ground water averaged about 3,000,000 gallons a day, or about the same as in June 1941.

The gascline plant of the J. S. Abercrombie Company was built in 1942 between Old Ocean and Sweeny. The water supply was obtained from 10 wells. Seven of the wells (Nos. 109 to 115) are near the plant and range in depth from 120 to 180 feet, whereas the other three wells are near Sugar Valley in Matagorda County. The

4/ Sundstrom, R. W., Hastings, W. W., and Broadhurst, W. L., Op. cit. p. 2.

withdrawal of ground water for this plant averaged about 1,150,000 gallons a day, although a supplemental supply was obtained from a nearby creek.

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In the early part of 1943 a high-octane gasoline plant was constructed by the Federal Government just south of Old Ocean. The plant was operated from October 1943 to August 1945 to supply war needs. During that period an average of about 3,000,000 gallons a day was pumped from five wells (Nos. 102 to 106). Four of the wells drew from sands between 150 and 170 feet below the land surface and one drew from sands between 428 and 715 feet. Operation of the plant was discontinued in 1945.

Water in considerable quantities, perhaps between 1,000,000 and 2,000,000 gallons a day, is pumped from wells in various parts of the county to supply oildrilling rigs, refrigeration plants, bottling plants, cotton gins, rice elevators, and other small industries. A well 585 feet deep (No. 23), near Danciger, is pumped continuously at the rate of about 175 gallons a minute (about 250,000 gallons a day) to supply a small gasoline plant.

Rice irrigation

Most of the rice produced in Brazoria County is irrigated with water diverted or pumped from the Brazos River, small creeks, bayous, and drainage ditches. In 1946 six wells (Nos. 412, 428-9, 451, 544, and 612) were used to irrigate rice, but only one well supplied all the water applied to the land; the other five were used to furnish water needed to supplement the available supply of surface water.

Domestic use and stock

Supplies of water sufficient for domestic use and stock can be found almost anywhere in the county at depths of 100 feet or less.

Summary of ground-water withdrawals

The following table gives the average daily withdrawal of ground water in Brazoria County in 1945 for public supply, industrial uses, and rice irrigation.

Estimated average daily withdrawal of ground water in Brazoria County in 1945 for public supply, industrial uses, and rice irrigation

Public supplies		<u>Gallons a day</u>
Alvin		150,000
Angleton		100,000
Freeport		250,000
Lake Jackson		200,000
Velasco		130,000
West Columbia		175,000
		1,005,000
Industrial supplies		
Sulfur mines		4,800,000
Magnesium and chemical plants		3,179,000
Oil refineries and others	• • • • • • • • • • • • • • • • • • • •	5,535,000
Rice irrigation		500,000
	Total	15,019,000

WATER LEVELS AND ARTESIAN PRESSURES IN WELLS

Continuous records of the fluctuations of water levels and artesian pressures in Brazoria County are not available, although measurements of water levels in several wells in different parts of the county have been made at irregular intervals since 1930. The measurements are given in the table of well records, and the declines in artesian pressures in different parts of the county are briefly discussed below.

<u>Alvin</u>.- Measurements of water levels in wells in the vicinity of Alvin show the following: Well 530 (750 feet deep), a decline of 58.6 feet between 1931 and 1946; well 531, a decline of 47.5 feet between 1937 and 1946, well 535 ($4\frac{1}{2}$ miles south of Alvin and 843 feet deep), a decline of 42 feet between 1930 and 1945; and well 559 (6 miles southeast of Alvin and 906 feet deep), a decline of 36.3 feet between 1939 and 1946.

Angleton.- The water levels in the city wells, 546 and 547 (about 1,000 feet deep), declined about 7 feet between 1940 and 1944, and rose 1.0 foot between 1944 and 1946.

Bonney.- Well 411 (923 feet deep) showed a decline of 9.5 feet between 1931 and 1946; and nearby well 412 (1,164 feet deep) had a flow in 1933 but the water stood 11.4 feet below the land surface in 1946.

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Brazoria - At the Jefferson Lake Sulphur Company mine, 3 miles south of Brazoria wells 144 to 150 are completed in what is known as the 500-foot sand, and the pumpage from them averages about 1,500,000 gallons a day. As a result of the withdrawals the artesian head in the wells declined from 12 feet above the land surface in 1936 to 180 feet below the land surface in 1946. Other wells in the vicinity, which draw from the same, sand, show declines that vary inversely in magnitude with the distance from the mine, and many wells have ceased flowing. Wells in this area that draw from sands above or below the 500-foot sand have not been seriously affected.

<u>Freeport</u>.- Pumping from wells of the Dow Chemical Company near Freeport was started in the early part of 1940. The water levels had declined about 80 feet by June 1941, and they were still lower during 1942-43 after the withdrawal was increased substantially. However, when the rate of withdrawal was reduced in 1944, the water levels recovered somewhat and were about the same in 1946 as in June 1941.

Old Ocean. - The water levels in wells at the Government gasoline plant near Old Ocean (wells 100-106) were from 10 to 12 feet below the land surface in the early part of 1943, but they had declined several feet by December 1944. However, after pumping was discontinued in September 1945, they rose and were from about 7 to 10 feet below the surface in November 1946, or slightly higher than when pumping started. The sands are relatively shallow and the water levels respond promptly to recharge from rainfall. During 1946 the rainfall at Angleton was 82.64 inches, the highest on record. <u>Pearland</u>.- In well 613 at Pearland (507 feet deep) the water level declined 50 feet during the 15-year period 1931-46; and in well 630 (5 miles south of Pearland and 410 feet deep) the water level declined 45 feet during the ll-year period 1935-46.

QUALITY OF WATER

The accompanying analyses were made by chemists of the U. S. Geological Survey, Austin, Texas, under the direction of W: W. Hastings, district chemist. The analyses are reported in parts per million. The results may be converted to grains per gallon by multiplying by 0.0584. Equivalents per million may be computed by dividing the values for the radicals in parts per million by the following combining weights: Calcium 20, magnesium 12, sodium 23, bicarborate 61, sulfate 48, chloride 35, fluoride 19, and nitrate 62.

The chemical character of ground water in Brazoria County is shown by 282 analyses given in the table at the end of this report. Unless otherwise noted the samples were collected and analyzed by the U. S. Geological Survey by methods in general use by the ^Survey. The analyses show only the dissolved mineral content and do not indicate sanitary conditions.

Waters containing less than 500 parts per million dissolved solids are preferable for domestic use, although waters having up to 1,000 parts per million of dissolved solids are acceptable for use in interstate commerce under the U. S. Public Health Service standards. Some municipalities use waters having substantially more than 1,000 parts per million dissolved solids without apparent harm to the user, although such supplies are apt to have a noticeable taste to persons not accustomed to the water.

Many large industries require water that has dissolved solids of less than 250 parts per million, whereas other industries are much more tolerant of the mineral content of their supply. Cooling is generally one of the chief functions of an industrial water supply, and the amount of dissolved solids is of secondary importance.

The water from most of the wells in Brazoria County meets the standards of the United States Fublic Health Service. No analysis showed less than 250 parts perimillion of dissolved solids, but only a few of the waters were highly mineralized. The amount of dissolved solids in well waters in Brazoria County generally becomes greater with depth, as shown in the following table:

	Dissclved s	clids in 25	8 well waters	in Brazoria Co	bunty
Depth (ft.)	Number of	Dis 250-509 (Good)	solved sclids 500-1,000 (Fair)	in parts par r 1,000-2,000 (Pcor)	Cver 2,000
0 - 200	95	27	54	9	5
200 - 500	61	8	35	18	0
500 - 800	79	10	44	23	2
Over 800	23	4	4	2	13

Hardness is the property of water that generally receives the most attention. Water having a hardness of more than 250 parts per million should be softened if it is to form a satisfactory lather with soap. Many cities with raw water supplies having a hardness greater than 250 parts per million find municipal softening to be economically justifiable. The finished water from a softening plant usually has a hardness of from 60 to 80 parts. Waters with a hardness of less than 50 parts are considered soft.

Most of the wells in Brazoria County yield hard water. Hard waters are found at all depths, but the deeper wells are more likely to yield soft waters.

Depth (ft.)	Number cf wells	<u> </u>	ardness as parts 100 - 300	per million of CaCO ₃ Over 300
0 - 200	81	0	40	41
200 - 500	42	10	28	4
500 - 800	61	30	28	3
Over 800	19	13	3	3

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Total ha:	rdness in	1 203	well	waters	in	Brazori	la Coun	t_{3}
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Wells in Brazeria County yield waters in which bicarbonates or chlorides predominate, and practically all the highly mineralized waters are high in oflation chloride. Very few of the well waters contain much sulfate and sulfates in most well waters was less than 10 parts per million. Nitrates were negligible in all waters examined for that constituents. All the values found for fluoride were less than the 1.5 parts per million recommended as the upper limit for that constituent by the Texas State Department of Health and the U. S. Public Health Service.

On the basis of the available analyses, the driller of a new well in Brazoria County might expect to get a good or fair but hard water from a sand less than 200 feet deep; a fair to peer but soft to moderately hard water from a sand greater than 200 feet deep but less than 800 feet deep; and a water too highly mineralized for most uses from a sand more than 800 feet deep.

SUMMARY

Most of the wells in Brazoria County draw from sends in the Beaumont clay, but a few in the northern part of the county draw from the Willis-Goliad sands. It is estimated that in 1945 the consumption of well water for public supplies, large industrial uses, and rice irrigation averaged somewhat more than 15,000,000 gallons a day. An additional quantity, perhaps of the magnitude of 1,000,000 to 2,000,000 gallons a day, was used for small industrial supplies, cil-well drilling, domestic purposes, and stock.

Pumping in adjoining areas as well as in Brazoria County itself has caused a pronounced decline in artesian pressures in most of the county since 1930-31, and most of the deep wells which formerly had a flow have ceased flowing.

The fresh-water sends at Freeport apparently were overdrawn during 1942-43, before water was brought in from the Brazos River to reduce the underground draft, and certain sands in other parts of the county may still be overpumped. The evidence indicates, however, that in most of the county the ground-water reservoirs are not being seriously overdrawn.

It is believed that substantial additional supplies of ground water of variable quality can be developed in the northern and central parts of Brazoria County in areas that are at considerable distances from the present centers of heavy pumping. In the northern part of the county the so-called Willis-Goliad sands can be drawn upon as well as sands in the Beaumont clay. In the central part of the county water of moderate mineralization is available in the deeper sands, which thus far have not been heavily pumped. Along the Coast the deeper sands contain brackish or salty water, but opportunities may exist for additional development of the shallow sands, or for development of the deeper waters for cooling and other uses in which quality is not so important. Increased pumping will cause a further decline in the artesian head, but unless the draft becomes very large this should not be serious. •

Records of wells and springs in Brazoria County, Texas (Wells west of the Brazos River)

	ALL WELLS	are drilled unless	otherwise noted in	n the	remarks	colum	<u>.</u>
			, ;	1	,	1	Height of
Well	Distance	Owner	Driller	Date	Depth	Diam-	measuring
1	from			com-	of	eter	noint
	West			ple	well	of	above
	Columbia		1	ted	(ft_{\star})	well	above
1	OUTUINTE		5	i	(100)	(in.)	; ground
	104	and M		1090		(111•)	(10.) =
L i	TCS wites	L. and M.		1963	≈,7 4 0		
	northwest	Production Co.No.3	Production Co.				
2	In Damon	Lutman Lumber Co.	Ben Weinbrenner	1932	110	2	
;			i		1		
3	do.	A. R. Eversole	do.	1932	110	2	
	:			:			
4	do.	W. M. Terry	do.	1930	160	3	
					1		, ,
	101 milon	Sincloin Bef Co.		1944	102	6	·
5	105 11162	Difficialit fiel. 00.		, 1941	1 100	л,	
	northwest			1000		±	
6 ;	9호 miles	Antone Bosak	1	1927	60	2	
1	northwest		: •	i	1		
7	9 2 miles	A. L. Bennett	Ben Weinbrenner	1934	190	3,	
1	north		i t	1		11/4	1
8	9 miles	Mrs. Kitty Nash	do.	1935	160	3	
Ŭ ;	north			 1			5 5
	Ol milor	ob	Ben McKinney	1926	138	2	
5 1	Se mires	40,	ben merrinney	1220	1.0	~	
	north		1	1000	250		,
10	10克 miles ¦	Mrs. R. L. Nash		1920	250	3	
	northeast		i •	 			
11 ;	9 ¹ / ₂ miles	Mrs. Kitty Nash	Ben McKinney	1930	; 110	3	
:	northeast ;			1	;		1
12	9 miles	A. Bertran	Dick Fleschner	1936	56	2 1 ,	
_	northeast			i	,	2	f 1
13	54 miles	George Tinsley	Ben Weinbrenner	1935	150	4.	· · · · ·
10	nonthoast	000160 1110109		1	!	2	ŧ I
	northeast i	State Viebner	, 1	1035	135	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	· <u> </u>
14	SE miles	State nighway		1900	100	. .	1 I •I
	northeast	Department		1			
15 ;	6 miles	R. N. Pollard	R. N. Pollard	1934	80	14	
	northwest		· ·	1	1		!
16	7 miles	C. Matula	C. Matula	1913	65	; 3	
:	northwest		1	1	•	1	
17	8± miles	R. R. Farmer	L. Patterson	1915	420	4	·
- :	northwest				1		• •
, ,			1	1	1		1
10 1	ll miloa	Humble Oil and	do	1946	473	4	3.5
10 1	II miles			11110	, 1 70	Ŧ	
	northwest	REI. 00.	1	1070			1
Ta !	10 miles	d0.	۵0.	1939	599	4	1•D
	northwest				1 ***************		1
20	In Danciger	0. L. Hodge, Jr.	C. L. Bundick	1933	142	2	0
1			: :		1		1 1
21	do.	Danciger Oil and	L. Patterson	1938	585±	4	0
	1	Ref. Co.	4 !		· -	1	6 1
22	11 miles	do.	Danciger Oil and	1935	156	4	· · · · · · · · · · · · · · · · · · ·
~~ ;	northwest 1		Ref. Co.			-	5
22	101 miloo	do	I. Pattenson	1070	505	4	
20	TOS WITTER	u U •	T. TGODELSON	T 200	. 000	T	
:	nortnwest		· · · · · · · · · · · · · · · · · · ·	:	•	•	•

A Measuring point is usually above ground at top of casing, pump base, pipe clamp or well curb. If below ground the figures are preceded by a minus (-) sign.
 b/ T, turbine; C, cylinder; J, jet type; A, air or gas lift; E, electric; G,

gasoline or diesel; W, windmill; H, hand. Number indicates horsepower.

Chemical analyses of water from most of these wells and springs are shown in the table of analyses

	WATER LE	VEL	:	·	<u>n en 1997 - En 1</u> 997 - En 1997 - En 19 1
Well	Above (+) or	Date of	Method	Use	Remarks
	below	measurement	of	of	
	land		117+	water	
	surface		h/	- c/	
	: (r+)	:	<u> </u>	<u> </u>	
	<u>; (10•)</u>		 		
1					Uil test. Belle Wisdom lease. See
	1 ••••••••••••••••••••••••••••••••••••	;			partial log.
2			C,E	D	
3			C,E	D	Water from sand at 100-110 feet.
4			C,G	D	Water from sand at 110-120 feet and 145-160 feet.
5	1/30	1044	ਾ ਨਾ	- D C	At Damonia pipeline station See 109.
U	<u>u</u> /00	1944	بتلو ^ل ا	, D, S,	At Damon's piperine station. Dee log.
	1	: • • • • • • • • • • • • • • • • • • •		<u>ina</u>	
D		• • • • • • • • • • • • • • • • • • •	С,Н	ם	
7			C,H	D,S	
8			C,W	S	
	, T 1				
9		· · · · · · · · · · · · · · · · · · ·	C,W	S	
10		·	in C	D	L
10	1		н, э,		1
	<u>,</u>	! }	10)
11			C,W	S	
12	· · · · · · · · · · · · · · · · · · ·		C,H,W	D	
13		· · · · · · · · · · · · · · · · · · ·	C,W	D	
		1		! !	Duilled to supply water for bighwar
14	14.3	10 00 • 6, 1936	None	N	construction
16	; •	, , <u></u>			construction.
15		·	С,Е	D	
16	· · · · ·	· · · · · · · · · · · · · · · · · · ·	C,E	D	Temperature 68° F.
Caratana da Caratana	, ;				
17	!+ :	Oct. 21, 1936	Flows	S	Estimated flow, 8 gallons a minute 4
	t 1	1			feet above ground on October 21, 1936.
	1	1			Water from sand at 400-420 feet.
18	8.6	Nov. 7, 1946	None	N	Supplied drilling rig. L. T. Lambert
	1	; ; _ ; _ ; _ ; _ ;			lease. Screen at 438-473 feet. See
19	8.4	do.	None	, N	Supplied drilling rig. J. H. 100.
±.9			1.0110	, 1	Bloch lease. Screen at 379-399 feet.
20	a /18		<u>C</u> F		- 21 con 100500 -0100h at 015-055 1060.
20	-/ 10		О, Б	ע	
21	d/11	1946	C,G	D,S	Bottom 32 feet screened.
		1	•		
22		,			
	1	• 1	•		
23	d/11	10/6	Δ	Tra	Screen at 553-585 feat. Viold about
~0		, <u>1940</u>	л	THU	175 collong a minute
	<u> </u>			· · · · · · · · · · · · · · · · · · ·	TIO Rairous a minure.

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irrigation; N, not used. d/ Water level reported by owner or driller.

	Records	0Ĩ	wells	and	springs	in	Brazoria	County		Continueó
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Wəll	Distance from West Columbia	Owner	Driller	Date com- ple- ted	Depth of well (ft.)	Diam- eter of well	Height of measuring point above ground
24	10 miles	Danciger Oil and	Danciger Oil and	1934	700±	(in.) 5	(ft.) <u>a</u> / 0
25	do.	de.	do.	1933	139	6	
26	9호 miles ncrthwest	Humble Oil and Ref. Co.	Humble Oil and Ref. Co.	1930	650 <u>+</u>	4	} !
27	do.	do.			504	·	
28	8] miles northwest	do.	L. Patterson	1935	594	4	2.0
29	8 miles northwest	do.	do.	1946	452	4	
30	9 miles northwest	do.	do.	1935	500±	7	3.0
31	do.	do.	do.	1946	618	4	3.5
32	7 miles west				Spring		
33	6 miles northwest	B. N. Crouch	B. N. Crouch	1930	365	4	
34	5 ¹ / ₂ miles northwest	do.	do,	1915	665	6,	
35	4 miles west	R. R. Farmer, Jr.	Ben Weinbrenner	1944	600 <u>*</u>	2	1.5
36	3 <mark>호</mark> miles west	R. R. Farmer	L. Patterson	1936	60	4	1.0
37	do.	do.	do.	1918	613	2	1.5
38	24 miles northwest	do.	Ben Weinbrenner	1935	100	2	
39	2 <mark>호</mark> miles west	W. G. Smith	W. L. Brown	1932	37]	
40	l ³ / ₄ miles west	F. L. Wise	Ben Weinbrenner	1934	320	21	•0
41	$l\frac{1}{4}$ miles west	Texas Pipe Line Co.		1919	610	6	
42	do.	J. A. Rogers		1933	60	5,	
43	l <mark>ă</mark> miles west	F. N. Bullock	B. F. Hodges	1915	750+	4,	•0
44	2 miles west	do.	L. Patterson	1920	762	4, 3-3/8	•0
45	l ¹ / ₂ miles northwest	do.		1916	700±	6, 5	•0
46	2 miles northwest	The Texas Co.	L. Patterson		600 ±	7	3.0

	WATER	LEVEL		; ;	
Well	Above (+) cr	Date of	Method	Use	Remarks
	below …	measurement	of	of	1
	land		lift	water	1
	surface	•	ъ/	- 5/	
	(ft.)	:			
24	1/20	Oct. 23, 1936			†
		÷			
20					1
26		1			······································
		i 1 3			
27			Т,Е,	D,S	Supplies oil field camp.
28	5.1	Nov. 7, 1946	None	N	Supplied drilling rig. T. L. Smith Jr.
		·	1 1 1		lease. Screen at 582-594 feet.
29			None	N	Supplied drilling rig, McFarland lease
]]			Screen at 419-451 feet. See log.
30	7.8	Nov. 7, 1946	None	N	Supplied drilling rig, M. McFarland
			L		lease.
31	4.2	do.	None ;	N	Supplied drilling rig, Williams-
					Woodson lease. Screen at 583-618 feet.
32	+		Flows	N	Ten springs on both sides See log.
:					of the Bernard River, had a combined
			1 1 1		flow of about 60 gallons a minute in
33			C,W,G	Ď	October and November 1936.
34			C.G.	D	Flowed until summer of 1936.
			- , -	2	
35	+	Nov. 7, 1946	Flows	D,S	Estimated flow, 4 gallons a minute l_{2}^{1}
! المحمد محمد	, , ,		C,W		feet above ground. Temperature 7620 F.
36	26.3	Oct. 21, 1936	С,Н	S	
	+ 8	Oct 21 1036	Nono	'NT	Fatimated flow A gollong a minute 1
01	15.2	Nov 7 1946	None	14	\pm foot above around on October 21 1076
	10.0	NOV. 7, 1940	6		Congod to flow in 1939. Weten from
78			C W	d	ceased to flow in 1950. Water from
			0,10	6	sand at 567-613 feet.
39			C,W	D	
	+ (0 5	0.000	T-1 T	~~~~~	
40	+ · ()• ()	Oct. 14, 1936	FLOWS	D	Estimated flow, 6 gallens an nour on
	······		<u>, с, п</u>	D T J	October 14, 1936, Temperature 70° F.
4± ;			A,-	D, Ind	Flowed until about 1938. Supplies pipe-
42	اور در در		C.H	D	Water from sand at 45-60 feet.
}	· · · · · · · · · · · · · · · · · · ·			-	
43	+ 4	Oct. 14, 1936	Flows	D	Estimated flow, 2 gallons a minute on
	1				October 14, 1936.
44	+ 20	Oct. 13, 1936	Flows !	D	Estimated flow, 20 gallons a minute on
1	1 1	* *	i		October 13, 1936. Water from sand at
1		1	t 1		742-762 feet. Temperature 79° F.
43	+	Oct. 14, 1936	Flows	S	Flow z gallon a minute at ground level
			1	1	on October 14, 1936.
45	+ 1	Nov. 7, 1946	Flows	Ind	W. H. Abrams lease. Drilled to replace
1			T.E.10		well 47, which is 125 feet south. Flows
			.0		when not being pumped.

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Records of wells and springs in Brazoria County -- Continued

Well Distance West Owner Driller Date Depth Distance off Distance test point above 47 2 miles The Texas Co. F. F. Powell 1920 577 4 4.0 49 14 miles do. L. Patterson 1941 524 7 1.5 50 # miles Humble Oil end Humble Oil and 1920 640 6 0.0 51 In West Equitable Mining Co. 60. 1922 502 3 0 52 do. E. J. Hagemeier 1922 502 3 0 53 do. City of West Columbia No. 1 Layne-Texas Co. 1941 659 1.0 6 54 do. City of West Columbia No. 1 L. Fatterson 1937 615 6 55 do. City of West Columbia No. 2 L. Fatterson 1946 137 2 0 56 14 miles Humble Oil and Columbia No. 2 Corp. 1946 137 2 .0 57 do					•	1	· · · · · · · · · · · · · · · · · · ·	Height of
Iron Columbia con- ted (ft.) of west (ft.) sobre ground (ft.) of west (ft.) sobre ground (ft.) 47 2 miles northwest The Texas Co. F. F. Fowell 1920 577 4 4.0 49 14 miles northwest do. L. Fatterson 1941 524 7 1.5 50 # mile northwest Humble Oll and northwest Humble Oll and Co. 1920 640 6. 0.0 51 In West Equitable Mining Co. 1922 502 3 .0 52 do. E. J. Hageneier 1922 502 3 .0 53 do. T. M. Smith T. M. Smith 1920 495 4. .0 2 do. City of West Columbia No. 1 L. Patterson 1937 615 6 55 do. City of West Columbia No. 2 L. Patterson 1946 137 2 .0 56 2 miles southeast Glen Ogden Matula Bros. <td< td=""><td>Well</td><td>Distance</td><td>Owner</td><td>Driller</td><td>Date</td><td>Depth</td><td>Diam-</td><td>measuring</td></td<>	Well	Distance	Owner	Driller	Date	Depth	Diam-	measuring
Nost Plan Well of the state of the stat		1 rom Wort	1		com-	of	eter	point
47 2 miles The Texas Co. F. F. Powell 1920 577 4 4.0 49 14 miles do. L. Patterson 1941 524 7 1.5 50 # milo Humble Oil and Humble Oil and 1920 640 6 0.0 50 # milo Humble Oil and Humble Oil and 1920 640 6 0.0 51 In West Equitable Mining Equitable Mining 500 52 do. E. J. Hagemeier 1922 502 3 .0 53 do. T. M. Smith T. M. Smith 1920 495 4 .0 54 do. City of West Layne-Texas Co. 1941 659 12; 1.0 55 do. City of West L. Fatterson 1937 615 6 56 2 miles Gien Ogden Matula Bros. 1946 137 2 .0 57 do. J. E. Huffman Ben Weinbrenner 1946 373		Columbia	1 1 1	3 1	ple-	Well	or	above
47 2 miles Tho Texas Co. F. F. Fowell 1920 577 4 4.0 49 12 miles do. L. Patterson 1941 524 7 1.5 50 # mile Humble Oil and Humble Oil and Humble Oil and 1920 640 6. 0.0 51 In West Equitable Mining Equitable Mining 500 52 do. E. J. Hagemeir 1922 502 3 .0 53 de. T. M. Smith T. M. Smith 1920 495 4. .0 54 do. Oity of West Layne-Texas Co. 1941 659 12. 1.0 55 do. City of West L. Patterson 1937 615 6 56 2 miles Glon Ogdon Matula Eros. 1946 137 2 .0 57 do. J. E. Huffman Ben Weinbrenner 1946 373 4. .0 58 14 miles Humble Oil and Crop. Gro.<			1 1		leu	(10.)	'(in)	ground (f+) a/
northwest northwest <t< td=""><td>47</td><td>2 miles</td><td>The Texas Co.</td><td>F. F. Powell</td><td>1920</td><td>577</td><td>$\frac{110}{4}$</td><td>4.0</td></t<>	47	2 miles	The Texas Co.	F. F. Powell	1920	577	$\frac{110}{4}$	4.0
49 12 miles northwest do. L. Patterson 1941 524 7 1.5 50 # mile northwest Humble Oil and Ref. Co. Humble Oil and Ref. Co. 1920 640 6 0.0 51 In West Equitable Mining Equitable Mining 500 52 do. E. J. Hagemeiar 1922 502 3 .0 53 do. T. M. Smith T. M. Smith 1920 495 4 .0 54 do. City of West Layne-Texas Co. 1941 659 12, 1.0 55 do. City of West L. Fatterson 1937 615 6 56 2 miles Glon Ogden Matula Bros. 1946 137 2 .0 57 do. J. E. Huffman Ben Weinbrenner 1946 373 4, .0 58 12 miles Ref. Co. Corp. 5 .0 <td>1</td> <td>northwest</td> <td></td> <td>10 10 100011</td> <td>1 1 2 20</td> <td></td> <td>, T</td> <td></td>	1	northwest		10 10 100011	1 1 2 20		, T	
49 12/2 miles do. L. Patterson 1941 524 7 1.5 50 g mile Humble Oil and Humble Oil and Humble Oil and 1920 640 6 0.0 51 In West Equitable Mining Equitable Mining 500 52 do. E. J. Hageneier 1922 502 3 .0 53 do. T. M. Smith T. M. Smith 1920 495 4, .0 54 do. City of West Layne-Texas Co. 1941 659 12, 1.0 6 55 do. City of West L. Patterson 1937 615 6 56 2 miles Glen Ogden Matula Bros. 1946 137 2 .0 57 do. J. E. Huffman Ben Weinbrenner 1946 373 4, .0 58 14 miles Humble 0il and Corp. 1914 7504 .0 59 do. do. do. 1914				1	1	1	1	1
northwest Humble 0il and Ref. Co. Humble 0il and Ref. Co. Humble 0il and Ref. Co. 1920 640 6 0.0 51 In West Columbia Equitable Mining Co. 500 52 do. E. J. Hagemeier 1922 502 3 .0 53 do. T. M. Smith T. M. Smith 1920 495 4 .0 54 do. City of West Columbia No. 1 Layne-Texas Co. 1941 659 12, 1.0 55 do. City of West Columbia No. 2 L. Patterson 1937 615 6 56 2 miles southeast Glen Ogden Matula Bros. 1946 137 2 .0 57 do. J. E. Huffman Ben Weinbrenner 1946 137 2 .0 58 12 Humble 0il and Cor Corp. 2 .0 2 .0 59 do. do. do. 1914 7502	49	l i miles	do.	L. Patterson	1941	524	7	1.5
50 1 mile northwest Humble 0il and Ref. Co. 1920 640 6. 0.0 51 In West Equitable Mining Columbia 1922 500 52 do. E. J. Hagemeier 1922 502 3 .0 53 do. T. M. Smith T. M. Smith 1920 495 4. .0 54 do. City of West Columbia No. 1 Layne-Texas Co. 1941 659 12. 1.0 55 do. City of West Columbia No. 2 L. Fatterson 1937 615 6 56 2 miles southeast Gien Ogden Matula Bros. 1946 137 2 .0 57 do. J. E. Huffman Ben Weinbrenner 1946 373 4. .0 58 12 miles Humble 0il and Columbia Corown Petroleum 1914 750+ 5 .0 59 do. do. do. 1914 750+ 5 .0 60 In East Columbia T. N. Smith L. Patterson	1	northwest	1 1		, 1 1	*	1	
50 1 mile Humble 011 and Humble 011 and 1920 640 6. 0.0 51 In West Equitable Mining Equitable Mining 500 52 do. E. J. Hagemeier 1922 502 3 .0 53 do. T. M. Smith T. M. Smith 1920 495 4, .0 54 do. City of West Layne-Texas Co. 1941 659 12, 1.0 55 do. City of West L. Fatterson 1937 615 6 56 2 miles Glen Ogden Matula Bros. 1946 137 2 .0 57 do. J. E. Huffman Ben Weinbrenner 1946 373 4, .0 2 58 La miles Humble 011 and Crown Petroleum 1914 7504 5 .0 59 do. do. do. 1914 7504 4 .0 61 do. Dr. M. A. Weams do. 1928 5004				: ;	1	1	1	9 I
northwest Ref. Co. Ref. Co. 51 In West Equitable Mining Equitable Mining 500 52 do. E. J. Hagemeier 1922 502 3 .0 53 do. T. M. Smith T. M. Smith 1920 495 4. .0 54 do. City of West Layne-Texas Co. 1941 659 12. 1.0 55 do. City of West L. Patterson 1937 615 6 56 2 miles Glen Ogden Matula Bros. 1946 137 2 .0 57 do. J. E. Huffman Ben Weinbrenner 1946 373 4, .0 2 Se utheast Ref. Co. Corp. 2 .0 57 do. J. E. Huffman Ben Weinbrenner 1946 137 2 .0 58 La miles Humble Oil and Crown Petroleum 1914 75	50	늘 mile	Humble Oil and	Humble Oil and	1920	640	6.,	0.0
51 In West Equitable Mining Equitable Mining 500 52 do. E. J. Hagemeier 1922 502 3 .0 53 do. T. M. Smith T. M. Smith 1920 495 4. .0 54 do. City of West Layne-Texas Co. 1941 659 12. 1.0 55 do. City of West L. Patterson 1937 615 6 56 2 miles Glen Ogden Matula Bros. 1946 137 2 .0 57 do. J. E. Huffman Ben Weinbrenner 1946 373 4. .0 58 14 miles Humble Oil and Crown Petroleum 1914 750± 5 .0 59 do. do. do. 1914 750± 5 .0 61 do. Dr. M. A. Weams do. 1914 750± 4 .0 62 do. John Graig do. 1917 692 2 .0		northwest	Ref. Co.	Ref. Co.		1		
Columbia Co. Co. Co. Formula Co. Co. Formula Co. Formula Co. Formula Formula <thformula< th=""> <thformula< th=""> <thfor< td=""><td>51</td><td>In West</td><td>Equitable Mining</td><td>Equitable Mining</td><td></td><td>500</td><td></td><td></td></thfor<></thformula<></thformula<>	51	In West	Equitable Mining	Equitable Mining		500		
52 do. E. J. Hagemeier 1922 502 3 .0 53 do. T. M. Smith T. M. Smith 1920 495 4, .0 54 do. City of West Columbia No. 1 Layne-Texas Co. 1941 659 12, 1.0 55 do. City of West Columbia No. 2 L. Fatterson 1937 615 6 56 2 miles southeast Glen Ogden Matula Bros. 1946 137 2 .0 57 do. J. E. Huffman Ben Weinbrenner 1946 373 4, .0 58 14 miles Humble Oil and scutheast Corown Petroleum 1914 7504 5 .0 59 do. do. do. 1914 7504 .0 .0 60 In East Columbia T. M. Smith L. Patterson 1917 692 2 .0 61 do. Dr. M. A. Weams do. 1918 635 3 .0 62 do. John Craig do. 1913		Columbia	Co.	Co.				
53 do. T. M. Smith T. M. Smith 1920 495 4, .0 54 do. City of West Columbia No. 1 Layne-Texas Co. 1941 659 12, 1.0 55 do. City of West Columbia No. 2 L. Fatterson 1937 615 6 56 2 miles southeast Glen Ogden Matula Bros. 1946 137 2 .0 57 do. J. E. Huffman Ben Weinbrenner 1946 373 4, .0 58 12 miles southeast Glen Ogden Matula Bros. 1946 137 2 .0 59 do. J. E. Huffman Ben Weinbrenner 1946 373 4, .0 60 In East southeast Ref. Co. Ccrp. Crown Petroleum 1914 7504 .0 60 In East Columbia T. M. Smith L. Patterson 1917 692 2 .0 61 do. Dr. M. A. Weams do. 1928 5004 3 .0 62 do. John Craig	52	do.	E. J. Hagemeier		1922	502	3	•0
55 do. 1. M. Smith T. M. Smith 1920 495 4, .0 54 do. City of West Columbia No. 1 Layne-Texas Co. 1941 659 12, 1.0 55 do. City of West Columbia No. 2 L. Patterson 1937 615 6 56 2 miles southeast Gien Ogden Matula Bros. 1946 137 2 .0 57 do. J. E. Huffman Ben Weinbrenner 1946 373 4, .0 58 12 miles southeast Humble 0il and Ref. Co. Corwn Petroleum 1914 7504 5 .0 59 do. do. do. 1914 7504 .0 .0 60 In East Columbia T. M. Smith L. Patterson 1917 632 2 .0 61 do. Dr. M. A. Weams do. 1928 5004 3 .0 62 do. John Craig do. 1918 635 3 .0 63 do. East Columbia School do.	E7 1		T M Cuth		1000	405		
54 do. City of West Columbia No. 1 Layne-Texas Co. 1941 659 12, 10 1.0 55 do. City of West Columbia No. 2 L. Fatterson 1937 615 6 56 2 miles southeast Glen Ogden Matula Bros. 1946 137 2 .0 57 do. J. E. Huffman Ben Weinbrenner 1946 373 4, .0 .0 58 12 miles southeast Humble Oil and Ref. Co. Corwn Petroleum 1914 750+ 5 .0 59 do. do. do. 1914 750+ 4 .0 60 In East Columbia T. M. Smith L. Patterson 1917 692 2 .0 61 do. Dr. M. A. Weams do. 1928 500+ 3 .0 62 do. John Craig do. 1918 635 3 .0 63 do. East Columbia School do. 1928 698 3 .0 100 II miles Defense Plant Corp. test 1 Co	53	ao. :	T. M. Smith	T. M. Smith	1950	495	4,	•0
54 do. Oity of West Columbia No. 1 L. Fatterson 1937 615 6 55 do. City of West Columbia No. 2 L. Fatterson 1937 615 6 56 2 miles southeast Glen Ogden Matula Bros. 1946 137 2 .0 57 do. J. E. Huffman Ben Weinbrenner 1946 373 4, .0 58 14 miles Humble Oil and southeast Crown Petroleum 1914 750+ 5 .0 59 do. do. do. 1914 750+ 4 .0 60 In East Columbia T. M. Smith L. Patterson 1917 692 2 .0 61 do. Dr. M. A. Weams do. 1928 500+ 3 .0 62 do. John Craig do. 1918 635 3 .0 Distance from Brazoria (Vells west of Brazos River) 100 II miles Defense Plant Layne-Texas Co. 1942 774 4 .0 <td>5.1</td> <td></td> <td>City of Woot</td> <td>Towno Morrog Co</td> <td>1041</td> <td>650</td> <td>10</td> <td>1.0</td>	5.1		City of Woot	Towno Morrog Co	1041	650	10	1.0
55 do. City of West Columbia No. 2 L. Fatterson 1937 615 6 56 2 miles southeast Glen Ogden Matula Bros. 1946 137 2 .0 57 do. J. E. Huffman Ben Weinbrenner 1946 373 4, .0 58 14 miles southeast Humble 0il and Ref. Co. Corwn Petroleum 1914 7504 5 .0 59 do. do. do. Igat 1914 7504 .0 60 In East Columbia T. M. Smith L. Patterson 1917 692 2 .0 61 do. Dr. M. A. Weams do. 1928 5004 3 .0 62 do. John Craig do. 1918 635 3 .0 63 do. East Columbia School do. 1928 5064 3 .0 Distance from Brazoria (Kells west of Brazos River) 100 II miles Defense Plant Corp. test 1 1943 161 34 2.0 101	54	u u •	Columbia No 1	Layne-lexas co.	T24T	009	۲¢, ۱	1.0
55 do. City of West Columbia No. 2 L. Patterson 1937 615 6 56 2 miles southeast Glen Ogden Matula Bros. 1946 137 2 .0 57 do. J. E. Huffman Ben Weinbrenner 1946 373 4, .0 57 do. J. E. Huffman Ben Weinbrenner 1946 373 4, .0 58 14 miles Humble Oil and scutheast Crown Petroleum 1914 750+ 5 .0 59 do. do. do. 1914 750+ 4 .0 60 In East Columbia T. M. Smith L. Patterson 1917 692 2 .0 61 do. Dr. M. A. Weams do. 1928 500+ 3 .0 62 do. John Craig do. 1918 635 3 .0 63 do. East Columbia School do. 1925 688 3 .0 101 do. Defense Plant Corp. test 1 Lyne-Texas Co. 1942 <td>1</td> <td>1</td> <td></td> <td>1 5 9 7</td> <td></td> <td>1</td> <td>U</td> <td></td>	1	1		1 5 9 7		1	U	
55 do. City of West Columbia No. 2 L. Fatterson 1937 615 6 56 2 miles southeast Glen Ogden Matule Bros. 1946 137 2 .0 57 do. J. E. Huffman Ben Weinbrenner 1946 373 4, .0 57 do. J. E. Huffman Ben Weinbrenner 1946 373 4, .0 58 14 miles scutheast Humble Oil and Ref. Co. Crown Petroleum 1914 750+ 5 .0 59 do. do. do. Image: Southeast T. M. Smith L. Patterson 1914 750+ 4 .0 60 In East Columbia T. M. Smith L. Patterson 1917 632 2 .0 61 do. Dr. M. A. Weams do. 1928 500+ 3 .0 62 do. John Craig do. 1913 635 3 .0 *63 do. East Columbia School do. 1925 683 .0 .0 100 I	1				1			
55 do. City of West Columbia No. 2 L. Fatterson 1937 615 6 56 2 miles southeast Glen Ogden Matula Bros. 1946 137 2 .0 57 do. J. E. Huffman Ben Weinbrenner 1946 373 4, .0 58 14 miles southeast Humble Oil and Ref. Co. Corwn Petroleum 1914 750+ 5 .0 59 do. do. do. loi 1914 750+ 5 .0 60 In East Columbia T. M. Smith L. Patterson 1917 692 2 .0 61 do. Dr. M. A. Weams do. 1928 500+ 3 .0 62 do. John Craig do. 1918 635 3 .0 Distance from Brazoria (Wells west of Brazos River) 100 Il miles Defense Plant Layne-Texas Co. 1942 774 4 .0 Corp. test 1 101 do. Defense Plant do. 1943	1	l 1				i	1	
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56 2 miles southeast Glen Ogden Matula Bros. 1946 137 2 .0 57 do. J. E. Huffman Ben Weinbrenner 1946 373 4, .0 .0 58 L4 miles Humble Oil and scutheast Crown Petroleum 1914 750+ 5 .0 59 do. do. do. 1914 750+ 5 .0 60 In East Columbia T. M. Smith L. Patterson 1917 692 2 .0 61 do. Dr. M. A. Weams do. 1928 500+ 3 .0 62 do. John Craig do. 1913 635 3 .0 63 do. East Columbia School do. 1925 698 3 .0 Distance from Brazoria (Wells west of Brazos River) 100 II miles Defense Plant Corp. test 1 Layne-Texas Co. 1942 774 4 .0 101 do. Defense Plant Corp. test 2 do. 1943 161 32 2.0	1		Columbia No. 2					
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ScutheastRef. Co.Ccrp.59do.do.do.1914750±4.060In East ColumbiaT. M. SmithL. Patterson19176922.061do.Dr. M. A. Weamsdo.1928500±3.062do.John Craigdo.19186353.063do.East Columbiado.19256883.0Distance from Brazoria(Wells west of Brazos River)10011 milesDefense Plant Corp. test 1Layne-Texas Co.19427744.0101do.Defense Plant Corp. test 2do.1943161 $3\frac{1}{2}$ 2.0	58	l <u>‡</u> miles	Humble Oil and	Crown Petroleum	1914	750 <u>+</u>	5	•0
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61 do.Dr. M. A. Weamsdo. 1928 $500\pm$ 3 $.0$ 62 do.John Craigdo. 1918 635 3 $.0$ $*63$ do.East Columbiado. 1925 688 3 $.0$ $*63$ do.East Columbiado. 1925 688 3 $.0$ Distance from BrazoriaUistance from Brazoria 100 II milesDefense PlantLayne-Texas Co. 1942 774 4 $.0$ 101 do.Defense Plantdo. 1943 161 $3\frac{1}{2}$ 2.0 101 do.Defense Plantdo. 1943 161 $3\frac{1}{2}$ 2.0		COLUMBIA		, 1	1	i	:	
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 *63 do. East Columbia do. 1925 688 3 .0 School Distance from Brazoria (Wells west of Brazos River) 100 Il miles Defense Plant Layne-Texas Co. 1942 774 4 .0 west Corp. test 1 101 do. Defense Plant do. 1943 161 3½ 2.0 * For records of wells 64 and 65 records 54 55 					+	000	i	••
School School Distance from Brazoria (Wells west of Brazos River) 100 11 miles Defense Plant Layne-Texas Co. 1942 774 4 .0 100 11 miles Defense Plant Layne-Texas Co. 1942 774 4 .0 101 do. Defense Plant do. 1943 161 31/2 2.0 101 do. Defense Plant do. 1943 161 31/2 2.0	*63	do.	East Columbia	do.	1925	688	3	•0
Distance from Brazoria (Wells west of Brazos River) 100 11 miles Defense Plant Layne-Texas Co. 1942 774 4 .0 100 11 miles Defense Plant Layne-Texas Co. 1942 774 4 .0 101 do. Defense Plant do. 1943 161 $3\frac{1}{2}$ 2.0 * For records of wolls f4 and f5	·		School	1	1	i		
Distance from Brazoria (Wells west of Brazos River) 100 II miles Defense Plant Layne-Texas Co. 1942 774 4 .0 100 II miles Defense Plant Layne-Texas Co. 1942 774 4 .0 101 do. Defense Plant do. 1943 161 31/2 2.0 Texas construction of molecular construction of construction o	:					1	1	
from Brazoria (Wells west of Brazos River) 100 11 miles Defense Plant Layne-Texas Co. 1942 774 4 .0 west Corp. test 1 0 1943 161 31/2 2.0 101 do. Defense Plant do. 1943 161 31/2 2.0 * For records of wolls 64 and 65 records for black 55 155		Distance	, .					
10011 milesDefense PlantLayne-Texas Co.19421744.0westCorp. test 1Image: Corp. test 1Image: Corp. test 1Image: Corp. test 2Image: Corp. test 2Image: Corp. test 2Image: Corp. test 2Image: Texa resourceImage: Corp. test 2Image: Corp. test 2Image: Corp. test 2Image: Corp. test 2		from Brazoria	(Wells we	st of Brazos River	r)			
west Corp. test 1 101 do. Defense Plant do. 1943 161 $3\frac{1}{2}$ 2.0 Corp. test 2	100	11 miles	Defense Plant	Layne-Texas Co.	1942	274	4	•0
101 do. Defense Plant do. 1943 161 $3\frac{1}{2}$ 2.0 Corp. test 2	1	west	Corp. test 1	l.	•	1	1	
101do.Defense Plantdo.1943161 $3\frac{1}{2}$ 2.0Corp. test 2Corp. test 2Corp. test 2Corp. test 2Corp. test 2Corp. test 2		<u>8</u> 7	1		i t		1	
TorDetense fiant $ao.$ 1943 161 $3\frac{1}{2}$ 2.0 Corp. test 2	101		Defense Dient		1047			
* For records of wells 64 and 65 and 55	TOT		Corp. test 2	a v.	1949	TOT	いま	2.0
* For records of wolls 64 and 65 and 55	. !	•	JOT h. 1991 8		i		:	
TOL TECOLUS OF WELLS OF AND OD. SEE DARES 54, and 55.	* Fo	r records of we	ells 64 and 65. see	a pages 54. and 55.				

	WATER	LEVEL	i	;	*****
Well	Above (+) or	Date of	Method	Use	Remarks
	helow	measurement	of	of	
	lend	i mode di omono	1 1 ff+	wotor	
	i rang	2 5	h/	water	
			<u> </u>	\mathbb{Z}	
477	(10.)	Non R 1046	1777		
47	1 T 1	NOV. 7, 1946	FLOWS		Estimated flow, 4 gallons a minute 4
	1	•	: :	1	feet above ground on November 7,1946.
				!	Screen at 533-577 feet. Temperature
49	t +	do.	Flows	; D,S,	Supplies oil field 80° F. See log.
	1	! !	T,E,5	Ind	camp. Flows when not being pumped.
	i		1	1	Screen at 500-524 feet. See log.
50	+ 0.5	Oct. 13, 1936	T,G,	D	
	t t	: 1 1	35	1 1	4 1
51) 				See log.
	4 2	1		:	
52	!+	Oct. 13, 1936	Flows	D	Estimated flow 5 gallons a minute on
			AGE		October 13 1936.
53	+ 10	.05	Flows		Estimated flow 20 collons a minute on
00	10	40.	110WB,	U U	October 17 1076 Water from eard at
54	07	Oct 15 1046	n p	D	Serection in conde hat 400 405 fact
04	0.0	$000 \cdot 10, 1940$, ¹ , ¹	г	
			20		Ween 540 and 649 leet. Gravel-walled.
					Drawdown 36 feet after pumping 257
					gallons a minute for 24 hours when
					drilled. Now operated at 500 gallons
55		!	т,Е,	Р	Supplements well <u>a minute.</u> See log.
1		1	7 : 1		54, average combined yield was 175,000
					gallons daily in 1946. Screen at 590-
56	d /24	Jan, 1946	J,E	D,S	Screen at 125- 612 feet. See log.
	-		ţ		137 feet.
57	d/17	Nov, 1946	J,E,	D,S	Deepened from 130 to 373 feet in 1946.
:	-		1	Í	Screen at 361-373 feet.
58	+ 3	Oct. 26. 1936	Flows	N	Flow 4 gallons a minute on October 26.
		1			1936.
59	+ 3	do.	Flows	Ň	Flow 5 gallons a minute on October 26
			- 20115		1936.
60	+ 6.5	Nov. 10 1936	Flows		Measured flow 71 collong a minute on
	0.0	100. 10, 1000	A 1	± .	Normhan 10 1036 Water from and at
	1	1	A I	•	November 10, 1930. Water from sand at
61	+ 50	do	Flowe		Flow 6 collors a minute of Monorham
	. 0.0	uu,	riows,	D	ficw, 6 gallens a minute on November
62	+ 45	1010			10, 1950.
02	1 4 0 1	1918 ·	FLOWS ;	ין ע	Flow, 15 gallons a minute on November
	+ 9.5	NOV. 10, 1936			10, 1936. Temperature 73° F.
63	+ 7.5	Nov. 10, 1936	Flows	P	Measured flow, 15 gallons a minute on
i	1				November 10, 1936. Water from sand at
				i	668-688 feet. Temperature 73° F.
100	12.0	Oct. 1942 /	None	N !	Test well 1. Screen at bottom.
1	35.8	Dec. 15. 1944	1		Drilled to 774 feet and sands tested
	9.6	Nov. 5, 1946	i	i	at 132-142, 302-311, 444-454 and 607-
;	-		1		707 feet, then nlugged at 150 feet
101	12.1	Jan. 8, 1943	None	N	Test well 2. Screen at 1 See log
1	34.4	Dec. 15 1944	1.0110	-	bottom. See log.
!	10.2	Nov. 5 1946	;	1	POOLOUIS DOG TAR.
			•	1	

	Recor	ds of wells and spri	ngs in Brazoria 🗸	bunty	Cont:	inued	
	!	1			i	1	Height of
Well	Distance	Owner	Driller	Date	Depth	Diam-	measuring
	from			com-	of	eter	point
	Brazoria	1	1	ple-	well	of	above
	:	·		ted	(ft.)	well	ground
	1	:	1			(in.)	(ft.) <u>a</u> /
102	10호 miles	Defense Plant	M. N. Dannenbaum	1943	164	18,	3.0
	west	Corp. No. 3	Co.	1	1	10	; 1
	2 8 1			ł			1
	•	· 1	1	1			• •
	4 		•		i i		
	•	3 •	1		•		<u>.</u>
	: !		: : :		; ;		! •
103	ll miles	Defense Plant	Layne-Texas Co.	1943	159	18,	2.0
	west	Corp. No. 1			, 1	10	۶ ۱
	: •			l			
			1		ł 1		
							1
104	do.	Defense Plant	M. N. Dannenbaum	1943	715	18,	
		Corp. No. 5	Co.			8	ī
			1				
1.05		Defense Dlent	 	10413	166	10	20
105	a u.	Defense Plant	۵0.	1945	100	10,	ť0
		Corp. No. 2				10	
1			1		1		
106	do	Defence Plant	do.	1943	169	10	2.5
100	uv.	Corp No. 4	u 0 •	1040	105	T ()	2.0
		001 p. 1101 4	1 				
107	10 miles	J. S. Abercrombie	Henry Lane	1942	140	4	
	west	Co.	,			1	
108	do.			01d	600+	2	0.0
			1 . 1 .		_	:	
109	ll miles	J. S. Abercrombie	Henry Lane	1942	158	6	
	west	Co.	1				
	1		5 •			:	
			· · ·			;	
110	do.	do.	do,	1942	156	4	
			; ;				
111	do.	do.	do.	1942	156	6]	
	۱ ۱						
112	do.	do.	do.	1942	156	6	
	1		1		· · · · · · · · · · · · · · · · · · ·		
113	10g miles	de.	do.	1942	180	6 ;	
	West						
114	av.	d0.	do.	1942	051	6	
175		da	Morro a Watana	1044	100		
тто і	u 0 .	۵0.	Texas Water	7.9 4 4	Трр	т8 ¹	
176	li miloa	2.5	Wells, Jnc.	2045			
TTO 1	TT WILLOS ,	u U •	nenry Lane	1940	14 45	4	
177	13 1120	do	do	1013	100	A	
	TO MITOD		uu.	LOTO	100	4	

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talihitigan (WATTER	THVHT			
Well	Above (+) or	Date of	Method	Use	Remarks
	below	measurement	of	of	
	land		lift	water	
	surface		b/	a/	
	(ft.)	1			×
102	21	Sept.29, 1943	T,G	N	Wells 102 to 106 were operated by
	29	Dec. 15, 1944		1	J. S. Abercrombie Company-Harrison Oil
	11.0	Nov. 5, 1946			Company for government during the war.
					Gravel-walled. Casing slotted at
		1		1	103-160 feet. Drawdown 48 feet after
					pumping 540 gallons a minute for 24
100				+	Not used since
103	10	FeD. 21, 1943	Туб		spotted September 1945. See Tog.
1	~4 6 6	$1000 \cdot 10, 1944$			vel-welled. Drewdown 30 feet after
1	0.0	1 MOV • 0, 1940		i i i 1	numning 520 gellons a minute for 24
1					hours when drilled. Not used since
		1			September 1945. See log.
104	d/13	Sept.29, 1943	T,G	Ind	Screens at 430-494 feet and 669-711
	<u> </u>		,	1	feet. Gravel-walled. Drawdown 62
1		· · · ·			feet after pumping 550 gallons a min-
				1 1	ute for 24 hours when drilled. Used
				1	very little since September 1945. See
105	10.0	Nov. 5, 1946	T,E,	P, Ind	Casing slotted at 102-162 feet, 10g.
		1	20	1	Gravel-walled. Drawdown 47 feet after
					pumping 537 gallons a minute for 24
			- m a	T . 7	hours when drilled. See log.
106	24.5	Sept.29, 1943	Т, G	Ind	Casing slotted at 100-160 leet.
1	41.5	$1000 \cdot 15, 1944$		1	pumping 540 gellong a minute for 24
107	1.9	NOV. 5, 1540	None	N	Case hours when drilled. See log.
107			NO 110		ing pulled after furnishing drilling
					rig. Larsen-Edling lease. See log.
108	+ 4	Oct. 26, 1936	Flows	S	Flow 6 gallons a minute on October 26,
					1936.
109		1	A	Ind	Wells 109 to 115 have a combined yield
					of about 800 gallons a minute which is
					supplemented by surface water and 3
		! 			wells in Matagorda County to supply
,110			A	Ind	See log. relinery. See log.
111			A	Ind	Do.
***		1	n		20.
112	~~~		A	Ind	Do.
		1			
113		1	A	Ind	Do.
		·			
114			A	Ind	
115			T,E	Ind	Casing slotted at 110-166 feet. Yield
		1 1			450 gallons a minute.
116			J,E	Р	Supplies oil field camp and warehouse.
110		tt	None	NT .	Coging nulled often funniching drill
ττ(MOUG	TA	ing rig P.J. Reeves lease. See log.
					115 116, 1.0.100,000 100000 Dec 10g.

		i)	· · · · · · · · · · · · · · · · · · ·	-			Height of
Well	Distance	Owner	Driller	Date	Depth	Diam-	measuring
	irom	1	1	com-	of	eter	point
	Erazoria) 1	ple-	ivell	Of	above
			1	tea	(It.)	well	ground
110	11± milog	T.S. Abarcramhia	Honry Tone	1943	135		<u>(It.)</u>
110	southwest		, menny mane	1540	100	; т !	
119	104 miles	Transcontinental	Transcontinental	1923	4.783	15.	
110	west	011 Co.	0il Co.	1	_,	6	6 6
120	9 miles	J. S. Abercrombie	Henry Lane	1942	150	4	·
	west	Co.		ł		! !	! :
121	In Sweeny	R. R. Ramey	R. Ramey		160	4	
122	7 miles	A. K. Warters		1933	175	4	•0
107	west			1012	500	C	
123	۵0.	R. D. McDonald		1912	500		•0
124	Tn Sweenv	Clvde McKinnev	Burford	1930	120	2	
	1	- <u> </u>				1	\$ 5
125	7 miles	The Texas Co.	L. Patterson	1940	473	4	•0
	west		1	1		1	8 2
							: !
126	$5\frac{1}{2}$ miles	Peerless Carbon	Henry Lane	1946	185	6	1.5
	west	Black Co.	T) 7 7	1000	E10	0	
127	4호 miles	W. H. Burns	Powell	T202	510	6	•0
120	Vest 11 miles	Chag Brower	D. W. Powell	1918	562	2	
120	southwest		Di ni ioweri	TATO		~	
129	4 miles	A. J. Proebstle	Shell Oil Co.,	1926	850	2 1	•0
	southwest	•	Inc.				
130	do.	do.	L. Patterson	1916	125	2	
	ı ا						
131	3 [±] / ₂ miles ;	J. O. Fossel	J. O. Fossel	1930	460	2	•0
1	souchwest		• }	t.		8	, , ,
132	2 ³ miles	L. J. McNeill	L. J. McNeill	1935	40	2	
10~	southwest					8	
133	4 miles	J. S. Montgomery	Geo. Potvin	1935	85	2	0.0
	northwest			1			
134	$3\frac{1}{4}$ miles	W. H. Brigance	Fred Powell	1916	500	2	•0
	northwest			1001			
135	In Brazoria	Smith Bros. Gin.	F. Harris	1924	822	2	•0
17.2		Do.			195	77	<u> </u>
130	u0.	School			TYD	2,	•0
137		Brazoria White		1934	125	2	
107		School		1001			1 1
138	do.	Brazoria County		1896	$1,200 \pm$	6,	•0
	1					4	
139;	do.	Stranger Bros.	Geo. Potvin	1930	140	4	•0
			 	1000			1 19
140	do.	J. S. Montgomery		1956	120	2	:
141	do.	R. Prel	Aug. Potvin	1930	126	2	•0
!					1		- •

	WATER				-
well	ADOVE (+) or	Date of	Method	Use	Remarks
	below .	measuremen	nt of	of	!
į	land	1 1 1	¦ lift	water	:
1	surface (ft.)		<u>b</u> /	3/	
118		·	None	N	Casing pulled after furnishing drill- ing rig. Mueller-Moline lease. See lo
119				· · · · · · · · · · · · · · · · · · ·	Oil test. See partial log.
120	6-1		None	N	Casing pulled after furnishing drill- ing rig. B.R.L.D. Co., lease, See log
121			A	D, Ind	Supplies cotton gin.
1221	16.2	Oct. 26, 19	36' - E	P	
	16.0	May 19 19	37 10	-	
123		Oct. 26, 19	36 A	Р	Flowed when drilled.
124		1 <u>-</u>	-,E	D	
125	+	NOV. 4 19	46 Flowe		Measured flow 4 callons a minute 21
120			C,E	Ľ	feet above ground. Screen at 449-470 feet. Temperature $70^{\pm 0}$ F. See log.
126	10.4	Nov. 5, 19	46 T,E	Ind	Screen at 145-185 feet.
127	<u>d</u> '+14	19	36 Flows	D,S	Flow 10 gallons a minute in 1936.
128	+ 4.9	May 19, 19	36 Flows	D	Flow 10 gallons a minute on October
<u>_</u>	+ 4.3	Oct. 15, 19	36		15, 1936. Water from sand at 544-562
129	<u>a</u> /+38	19	36 Flows	S	Flow 75 gallons a minute in feet. 1936, Temperature 72° F.
130			C,W	D	
131	1/+ 3	19	36' A	D	Flow 4 gallons a minute 24 feet above
					ground on October 15, 1936. Stopped flowing in April 1937. Water from sar
132			C,W	D	at 440-460 feet.
133	d /20	19	36 C,W	S	
134	1/+17	193	36 Flows	D	Flow 25 gallons a minute on October
135	+ 4.5	Oct. 14, 19	36 Flows	Ind	Measured flow, $7\frac{1}{2}$ gallons a minute $2\frac{1}{4}$ feet above ground on May 20 1937.
136	a717	19	35 C,W	Р	Temperature 70° F.
137		÷6	C,E	P	********
138	+ i	Oct. 14, 193	36 Flows	N	At old county courthouse. Flow 4
139	d /27.5	193	30 A,E	D	on October 14, 1936.
40			-,G,	D	
41	a /18	1.05	36 C 11	+	
· * * j		190	JU: U,W [י ע	

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	; 1			!	1	!	Height of
Well	Distance	Owner	Driller	Date	Depth	Diam-	measuring
	from			com-	; of	eter	point
	Brazoria		1	ple-	well	of	above
	1 }		1	¦ted	(ft.)	well	ground
		·		1		(in.)	(ft.) <u>a</u> /
142	3 mile southwest	H. C. Hayslip	L. Fatterson	1926	494	8	•3
143	$l\frac{1}{4}$ miles south	! Hinkle		1926	57	31	1.6
144	3 miles	Jefferson Lake	L. Patterson	1936	746	2	2.4
	south	Sulphur Co., Inc.	1		1 1	1	
	2 • • • • •		· · · · · · ·				
145	do.	do.	Layne-Texas Co.	1937	500+	13	•0
146	do.	do.	L. Patterson	1937	500	12	
147	do.	do.	do.	1937	495	10	.0
		•	1			1	
		: • • • • • • • • • • • • • • • • • • •	·				
148	do.	do.	Layne-Texas Co.	1937	500 <u>+</u>	13	•0
149	do.	do.	Jefferson Lake	1939	504	14,	•0
			Sulphur Co. Inć.			8	
190	40.	۵۰.	d0.	1940	1 	16, 8	
151	3호 miles	Roxana Petroleum	Roxana Petroleum	1926	3,102		
159	4 milog	Corp.	Uorp.	1049	CE0 1		
102	eoutheast !	Clamong State Farm	TOW MOLLET	1946	000	1,0	1.0
153	4t miles	do.		1940	253	6	- 0
100	southeast			10.10	200	U I	•0
154	do.	do.	do.	1940	558	8	•0
				, ,			
155	5출 miles	S. S. Perry	Humble Oil and	1926 ¦	1,002±	4	•0
156	do do	1	Ref. Co.		ROCH		
100				OId	700 <u>+</u> !	3	•0
157	do.	Kate Huntington	F. Powell	1909	487	2	•0
158	5 miles	P. McNeill	Eberspacher	1930	505	21	•0
	south		Bros.	1			
159	6 miles southwest	W. Martin	L. Patterson	1925	535	21	•0
160	7 miles	G. C. Davis	G. C. Davis	1935	92	21	
	southwest				-~	2	
161	7 [±] miles	do.		01d	40	48	•0
169+	scuthwest						
TUC	southwest	M. N. Percy		тато	500 <u>+</u>	2	•0
1	Sou DIWESU	1		Í			

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	WATER	TEART			
Wel:	l Ab ov e (+) or	Date of	Method	Use	Remarks
	below	measurement	of	of	
	land	4 1	lift	water	
	surface		b/	2/	
	(ft.)	1		_	
142	4.5	Oct. 22 1936	CE	DS	Water from sand at 466-494 feet.
THU	1 10 0	Mar. 10, 1037	0,11	2,0	
	12.9	May 18, 1957		·	
143	16.5	Oct. 22, 1936	: C,W	S	
		t	•		
144	d /+12	do.	None	N	Known as Patterson test well No. 1.
		i	i		Tested at 74 feet. water level 19 feet
	1		:	1 1 1 1	helow ground. Tested at 483 and 736
	1		ı	i I	foot flowed over reging 24 shows
	1	1	1	1	1990, 110Wed Over casing, A.4 above
	1		i •		ground, at both depths. Flow 30 gal-
	ŧ 1	•	t •		lons a minute on October 22, 1936.
	1	‡ 1	1	1	Temperature 72° F. See log.
145	d 725	Apr. 1937	None	N	Known as Purdy No. 1. Yield was about
	5	1	1		450 gallons a minute when drilled.
740	, <u> </u>		Mana	N	Known og Weing No. 2 Vield on test
140		1	NONG	1 11	Mitown as wernis no. 2. field on debu
					was 100 gallons a minute so well was
147	d/+ 1	Feb. , 1937	T,E	Ind	Known as Weims abandoned. See log.
		1	!		No. 1. Yield 250 gallons a minute.
) 1	1		1	Screen at 450-494 feet. See log.
148	d /25	Apr. 1937	None	N	Known as Purdy No. 2. Yield about 450
110					callong a minute when drilled.
140	A7100	1040	<u> </u>		Vnown on Ring No. 1. Sanoon at 472 405
149	<u>E/180</u>	1940	1,6	-na	Known as ming No. 1. Dereen at 4/24450
		1 		i 	reet. Gravel-walled. field about 400
150			T,E	Ind	Known as gallons a minute, See log.
	1			· /	Marcus Weims No. 1. Screen at 468-505
	l			· ·	feet. Gravel-walled. Yield about 400
151					Oil test on gallons a minute. See log.
101					Clemens State Farm. See partial log.
150	417 0	Nor 14 1046	0 117		Samoon at 638 650 feat
102	47.9	NOV • 14, 1940	0,₩	с с	
153	; č _ ∕23	1940	A	ind	Screen at 233-253 feet.
				1	
154	d/38	1940	A	D,S,	Screen at 538-558 feet.
	-	1		Ind	
155	d /+5	1936	Flows	D	Flow 30 gallons a minute on October
100	2/0	1000	110110		30 1936.
3.50		10 1076	T33 -	Da	The Real Long a minute on Negation
126	+5	NOA. 12, 1232	Flows,	D,S	Flow 5 gallons a minute on November
		1	C,W	!I	19, 1936.
157	·0	1936	C,W	Di	Formerly watered several thousand
	—				cattle by natural flow.
158	d./+18	19:36		D	Flow 15 gallons a minute on October
100		1000			22 1936. Cased to flow in Anril or
				1 I	New 1088 Weter from good of 490 505
TEC	d / 1 1		733	<u> </u>	May 1907. Water Irom sand at 460-505
198	<u>u</u> :/+ 1	may 18, 1937	FLOWS	υ,s	Flow de- 1991. Temperature /1 F.
1					creased from 3 gallens to one-seventh
				i i	gallen a minute during April and May
160			C.H	D	1937.
1			,		
161	12.8	Nov. 19 1976	C W		Dug tile curbing.
	T M A		· , · · ·		THE OTTO AUTOTURE
160	a /+n	1000	101	T ~ 1	Flow 20 mollors - minute minute
TON		1936	r LOWS	ש, א ו	riow au gations a minute prior to
	4 ./ 4	мау 18, 1937	1	1	April 1937; 110w decreased to 2 gallons
				1	a minute 5 feet below ground on May
		- 3			18, 1937,

Records of wells and springs in Brazoria County -- Continued

	•		1	:	}		Height of
Well	Distance	Owner	Driller	Date	Depth	Diam-	measuring
	from			com-	Cſ	eter	point
	Brazoria			ple-	well	of	above
				ted	(ft.)	well	ground ,
				i		(in.)	(ft.) <u>a</u> /
*163	95 miles	Craig Estate	Powell	1916	600+	2	2.0
	southwest			1			; · · ·
مشري مي ر	Ī		, }	ļ	•		1 ; t
	Distance fr	om					
	Freeport	(Wells west	of Brazos River)	3			
200	16 miles	J. L. Ducroz	Eberspacher	1930	542	2	2.0
	west		Bros.				
				1	. 1		
201	15 miles	T. J. Poole	L. Patterson	1918	590	2	2.5
	southwest	. –	; }		1		
202	14 miles	do.	do.	1917	600	2	2.3
	southwest		, ; 1		1		
			,]	; ; ;	1		
203	15 miles	do.	do.	1918	580	3	2.0
	west						
204	13호 miles	do.	Powell	1915	580	2	3.0
!	west						
205	do.	Shell Oil Co., Inc.	Shell Oil Co.,	1928	5,958		
			Inc.			: 	
206 ;	15 miles	J. T. Hinkle		1917	560	2	1.0
	west	·					
207 ;	14 miles	do,	Powell	1920	568 (2 : :	1.2
	west					:	•
					1		
208	13 [±] miles	C. C. Hampil	do.	1920	550	2 :	•0
	west						
209	13 miles	E. D. Pearson	Eberspacher	1930	485	2	• 0
	west		Bros.		:	1	
-					· · ·		
210	do. :	L. J. McNeill	L. Patterson	1915	700+	2	•0
	101 11						
211	125 miles	Roxana Petroleum	Roxana Petroleum	1927	5,337		
010	West	Corp.	Corp.				
212	12 miles	E. N. Krause	L. Patterson	1950	578 ;	2	•0
017	West			1001			
213	13 miles	T. J. Poole		1931	580	4,;	•0
214	West	: 		1010		2	
۲4 <u>ا</u>	uo .	a b.		1910	580	3	· • O
216	19 milog			1010			
210	acuthmost	uo.		1917	618	2	• 0
216	do	S Allon i	Demoli	1010	1 000		
NTO :		D. WITAU	rowert	TATO	1,000	4	•0
1	1			. 1		1	
217		Nelson Boll		1020	600		
~ _ ;		MOTSON DATT		1906	000	3	• 0
218	8 miles	T. J. Poole	Powell	1617	500		<u> </u>
	southwest		IOMOTT I	T9T1	JOU :	~	• 0
219	do.	J. L. Ducroz		1931	580		<u> </u>
	Ĩ			LUCL 1	000	2	•0
			1	1			

* For record of well 164, see pages 54 and 55.

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<pre>Well Above (*) or: Data of Method Use Delow measurement of of delog measurement of of delog measurement if wetar wetar surface if the set of delog measurement if wetar wetar surface if the set of delog measurement if wetar if the set of delog measurement if the set of delog delog a minute between march and measurement if the set of delog delog a minute between march and measurement if the set of delog delog a minute between march if delogs a minute delog delog delog delog delog delog de</pre>		WATER	LEVEL	1	:	
below measurement of of land unfece 1/ft water (1.) 163 +3.3 May 18, 1937 Flows S Measured flow 2½ gallons a minute 2 163 +3.3 May 18, 1937 Flows D,S Screen at 532-542 feet. Flow decreased recently. 200 +3.7 May 18, 1937 Flows D,S Screen at 532-542 feet. Flow decreased recently. 201 +3.3 do. Flows D,S Screen at 532-542 feet. Flow decreased recently. 202 +3.6 do. Flows S Flow decreased recently. Particle and May 18, 1937. 203 +3.6 do. Flows S Flow decreased from 60 19, 1937. 204 + do. Flows S Flow decreased from 2-inch pipe full 205 Oll test, lakerto and May 18, 1337. 205 Oll test, lakerto and May 18, 1337. 206 +2.6 May 19, 1937	Well	L Above (+) or	Date of	Method	Use	Remarks
land lift way surfcce b/ b/ b/ 163 +3.3 May 18, 1937 Flows S Measured flow 2½ gallons a minute 2 163 +3.3 May 18, 1937 Flows S Screen at 532-542 feet. Flow decreased recently. 200 +3.7 May 18, 1937 Flows D,S Screen at 532-542 feet. Flow decreased from 15 to 5 gallons a minute batween March and May 18, 1937. 201 +3.3 do. Flows S Flow decreased [Temperature 76° Flow 23, minute batween March and May 18, 1937. 202 +2.6 do. Flows S Flow decreased from 60 118, 1337. 203 +3.6 do. Flows S Flow decreased from 60 118, 1337. 203 +3.6 do. Flows S Flow decreased from 60 118, 1337. 204 + do. Flows S Flow decreased from 2-inch pipe full to 17 205 Oil tost, Larch and May 18, 1937. from 5 to 2 gallons a minute between March 104		below .	measurement	of	of	1
surface 12/ 2/ 163 +3.3 May 16, 1937 Flows S Measured flow 21 gallons a minute 2 163 +3.3 May 16, 1937 Flows S Screen at 532-542 feet. Flow de- creased from 15 to 5 gallons a min- ute between March and May 18, 1937. 200 +3.7 May 16, 1937 Flows S Flow decreased from 15 to 5 gallons a min- ute between March and May 18, 1937. 201 +3.3 do. Flows S Flow decreased from 2.1ch pips full to 17 gallons a minute between March and May 18, 1937. 202 +2.6 do. Flows S Flow decreased from 5.1 to 17 gallons a minute between March and May 18, 1937. 203 +3.6 do. Flows S Flow decreased from 5.1 to 17 gallons a minute between March and May 18, 1937. 204 do. Flows S Flow decreased from 5.1 to 18 gallons a minute between March and May 18, 1937. 205 Flow decreased from 5.1 to 19 pe full 10.2 form 5.5 to 2 gallons a minute botween March and May 18, 1937. 206 +2.8 May 19, 1937 Flow decreased from 5.5 to 2 gallons a minute fom 55 to 2 gallons a minute		land		lift	water	1
(ft.) (ft.) 163 +3.3 May 18, 1937 Flows S Measured flow 2½ gellons a minute 2 feet above ground on May 18, 1937, flow decreased recently. 200 +3.7 May 18, 1937 Flows D,S Screen at 532-542 feet. Flow de- cressed from 15 to 5 gellons a minute between March and May 18, 1937. 201 +3.3 do. Flows S Flow decreased from the part and May 18, 1937. 202 +8.6 do. Flows S Flow decreased from the part and May 18, 1937. 203 +3.0 do. Flow decreased from to the part and May 18, 1937. 204 do. Flow decreased from 60 18, 1937. 205 116 to ts. Larch and May 18, 1937. 204 do. Flow decreased from 60 18, 1937. 1937. 205 116 tots. Larch and May 18, 1937. 205 117 tots. Larch and May 18, 1937. 206 +2.8 May 19, 1937 Flow decreased from 2.5		surface		<u>h</u>	າ/	1
163 +3.3 May 16, 1937 Flows S Messured flow 2½ gellons a minute 2 260 +3.7 May 18, 1937 Flows D,S Screen at 532-542 feet. Flow decreased from 15 to 5 gellons a minute between March and May 18, 1937, flow decreased from 15 to 5 gellons a minute between March and May 18, 1937 200 +3.3 do. Flows S Flow decreased from 15 to 5 gellons a minute between March and May 18, 1937, creased from 2-inch pipe full to 17 201 +3.3 do. Flows S Flow decreased from 2-inch pipe full to 17 202 +2.6 do. Flows S Flow decreased from 2-inch pipe full to 17 203 +3.0 do. Flows S Flow decreased from 2-inch pipe full to 17 204 - do. Flows S Flow decreased from 2-inch pipe full to 17 205 - - - - - 1937. 206 +2.8 May 19, 1937 Flows S Flow decreased from 2-inch pipe full 207 4/17 1920 Flow screased from 2-inch pipe full 1937. 206 +2.8 May 19, 1937 S Screen at 1end May 18		(ft.)			• ••••	1
Instrum feet above ground on May 18, 1927, flow decreased recently. 200 +3.7 May 18, 1927 Flows D.S. Screen at 532-542 feet. Flow decreased recently. 201 +3.3 do. Flows Streen at 532-542 feet. Flow decreased recently. 201 +3.3 do. Flows Streen at 532-542 feet. Flow decreased recently. 202 +2.6 do. Flows Streen at 532-542 feet. Flow decreased recently. 203 +3.0 do. Flows Streen at 532-542 feet. Flow decreased recently. 203 +3.0 do. Flows Streen at 532-542 feet. Flow decreased recently. 204 do. Flows Streen at finute between March 18, 1937. 205 0it tost. finute between March 206 +2.8 May 19, 1937 Flows Streen at march march for 55 to 4 gallons a minute between March 207 ff-17 1920 Flows Streen at march for 533 for 2 gallons a finute between March 207 ff-17 1920 Flow decreas	163	+3.3	May 18, 1937	Flows	S	Measured flow 2 [±] gallons a minute 2
flow decreased recently. 200 +3.7 May 18, 1937 Flows D.S Screen at 532-542 fest. Flow decreased from 15 to 5 gellons a minute between March and May 18, 1937. 201 +3.3 do. Flows S Flow decreased from 15 to 5 gellons a minute between 120 to 4 gellons a minute between March and May 18, 1937. 202 +2.6 do. Flows S Flow decreased from 2-inch pips full to 17 203 +3.0 do. Flows S Flow decreased from 60. 10, 1937. 204 + do. Flows S Flow decreased from 60. 10, 1937. 205 7.7. Fooll blass. See partial log. 206 +2.6 Nay 19, 1937 Flows S Flow decreased from 50. 10, 1937. 205 11, 1027 206 +2.6 Nay 19, 1937 Flows S Flow decreased from 50. 10, 1937. 207 1/417 1920 Flows S <td>100</td> <td>0.0</td> <td></td> <td>1</td> <td>1 ···</td> <td>feet above ground on May 18, 1937.</td>	100	0.0		1	1 ···	feet above ground on May 18, 1937.
200 +3.7 May 18, 1937 Flows D,S Screen at 532-542 fest. Flow decreased from 15 to 5 gallons a minute between form 15 to 5 gallons a minute between 1 from 20 to 4 gallons a minute between 1 from 20 to 4 gallons a minute between 1 from 20 to 4 gallons a minute between 18 form 20 for 4 from 20 to 4 gallons a minute between 18 form 20 form		•		:	1	flow decreased recently.
200+3.7May18, 1937FlowsD,SScreen at 532-542 feet. Flow de- creased from 15 to 5 gallons a min- ute between March and May 18, 1937.201+3.3do.FlowsSFlow decreased from 20 to 4 gallons a minute between march and May 18, 1937.202+2.6do.FlowsSFlow de- march and May 18, 1937.203+3.6do.FlowsSFlow decreased from 20 inter between March and May gallons a minute between March and May to 3 gallons a minute between March and May to 3 gallons a minute between March and May 18, 1937. from 5 to 2 gallons a minute between March to 3 gallons a minute between March to 4 gallons a minute between March 550-566 feet. Flow decreased from 55 to 2 gallons a minute between March to 4 gallons a minute between March 550-566 feet. Flow decreased from 55 to 2 gallons a minute of October to 2 gallons a minute of October 77, 1936204+May 19, 1937SScreen at to 4 gallons a minute of October 77, 19362051920FlowsSFlow decreased and May 1937.2062/415Oct. 27, 1936Flows, DFlow 2 sylpton on May 18, 1837.2072082/415Oct. 27, 1936FlowsS2092/415Oct. 27, 1936FlowsDFlow 2 sylpton on May 18, 1837.210+2do.FlowsSFlow decreased gradually between 192						
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213d/4do.C,WDThis well nover flowed.214d/47do.FlowsDFlow decreased gradually between 1920 and May 18, 1937 when it was barely a 215215d/+15May1936FlowsD,SFlow decreased from 60 to u trickle. 10 gallons a minute between March and 216 +216+May18, 1937FlowsSMeasured flow 13May 18, 1937. gallons a minute 3 feet above ground on May 18, 1937. Temperature 35° F.217d/41936C,HD218+May16, 1937FlowsSMeasured flow 25 gallons a minute 3 feet above ground on May 18, 1937.219+dc.FlowsD,SMeasured flow 3-1/3 gallons a minute 25 feet above ground on May 18, 1937.					: — I	1936.
214d/+7do.FlowsDFlow decreased gradually between 1920 and May 18, 1937 when it was barely a 215215d/+15May1936FlowsD,SFlow decreased from 60 to ul trickle. 10 gallons a minute between March and 	213	3/4	of.	C.W	D	This well never flowed.
214d/+7do.FlowsDFlow decreased gradually between 1920 and May 18, 1937 when it was barely a 215215d/+15May1936FlowsD,SFlow decreased from 60 to utrickle. trickle. 10 gallons a minute between March and 216 +216+May18, 1937FlowsSMeasured flow 13(May 18, 1937. gallons a minute 3 feet above ground on May 18, 1937. Temperature 35° F.217d/ 41936C,HD218+May16, 1937FlowsSMeasured flow 2½ gallons a minute 3 feet above ground on May 18, 1937.219+dc.FlowsD,SMeasured flow 3-1/3 gallons a minute 2½ feet above ground on May 18, 1937.	~, 1 0	<u> </u>	1	-,		
214 U/1 U/1 Hows D Hows D How decreased gradually between 1550 215 d/+15 May 1936 Flows D,S Flow decreased from 60 to u trickle. + 4 May 18, 1937 10 gallons a minute between March and 216 + May 18, 1937 Flows S Measured flow 13 May 18, 1937, gallons a minute 3 feet above ground on May 216 + May 18, 1937 Flows S Measured flow 13 May 18, 1937, gallons a minute 3 feet above ground on May 217 d/ 4 1936 C,H D D D 218 + May 16, 1937 Flows S Measured flow 25 gallons a minute 3 feet above ground on May 18, 1937. 219 + dc. Flows D,S Measured flow 3-1/3 gallons a minute 25 feet above ground on May 18, 1937. 219 + dc. Flows D,S Measured flow 3-1/3 gallons a minute 25 feet above ground on May 18, 1937.	514	a/+7		FIONS	, T	Flow decreased gradually between 1920
215d/+15May1936FlowsD,SFlow decreased from 60 to u trickle.+ 4May18, 193710 gallons a minute between March and216+May18, 1937FlowsSMeasured flow 13May 18, 1937.216+May18, 1937FlowsSMeasured flow 13May 18, 1937.217d/ 41936C,HD218+May18, 1937FlowsSMeasured flow 2½ gallons a minute 3 feet above ground on May 18, 1937.219+dc.FlowsD,SMeasured flow 3-1/3 gallons a minute 2½ feet above ground on May 18, 1937.	61.I	<u> </u>		TONS		and Mar 19 1037 when it was herely a
213 May 1936 Flows D,S Flow decreased from 60 concentration of concentrating concentration of concentration of concentrat	016	4/+15	Nor 1076			Flow doomood from 60 to it tricklo
10 gallons a minute between March and May 18, 1937 216 + May 18, 1937 Flows S Measured flow 13 May 18, 1937, gallons a minute 3 feet above ground on May 18, 1937. Temperature 85° F. 217 d/ 4 1936 C,H D 218 + May 18, 1937 Flows S Measured flow 2½ gallons a minute 3 feet above ground on May 18, 1937. 219 + dc. Flows D,S Measured flow 3-1/3 gallons a minute 2½ feet above ground on May 18, 1937.	210	<u>~</u> /+15	May 1930	FLOWS	, <i>D</i> ,5	Flow decreased from ou to d trickle.
215 + May 18, 1937 Flows 5 Measured flow 15 [May 18, 1937; 217 d/4 1936 C,H D 218 + May 18, 1937 Flows S Measured flow 2½ gallons a minute 3 218 + May 18, 1937 Flows S Measured flow 2½ gallons a minute 3 218 + May 18, 1937 Flows S Measured flow 2½ gallons a minute 3 219 + dc. Flows D,S Measured flow 3-1/3 gallons a minute 2½ feet above ground on May 18, 1937.	01.0	+ 4	May 18, 1957	1777		10 gallons a minute between March and
gallons a minute 3 feet above ground on May 18, 1937. Temperature 85° F. 217 d/4 1936 C,H 218 + May 18, 1937 Flows S Measured flow 2½ gallons a minute 3 feet above ground on May 18, 1937. 219 + dc. Flows D,S Measured flow 3-1/3 gallons a minute 2½ feet above ground on May 18, 1937.	×12	. T	May 18, 1937	LTOMA	5	Measured ILOW 15 (May 18, 1937,
217 d/4 1936 C,H D 218 + May 18, 1937 Flows S Measured flow 2 ¹ / ₅ gallons a minute 3 218 + May 18, 1937 Flows S Measured flow 2 ¹ / ₅ gallons a minute 3 219 + dc. Flows D,S Measured flow 3-1/3 gallons a minute 2 ¹ / ₂ feet above ground on May 18, 1937.		1		•		gallons a minute 3 feet above ground
217 W 4 1936 C, R D 218 + May 18, 1937 Flows S Measured flow 2½ gallons a minute 3 219 + dc. Flows D, S Measured flow 3-1/3 gallons a minute 2½ feet above ground on May 18, 1937.	017	37.4	1	; ; ; ; ; ;		on May 18, 1937, Temperature 859 F.
218+May 16, 1937FlowsSMeasured flow 25 gallons a minute 3 feet above ground on May 18, 1937.219+dc.FlowsD,SMeasured flow 3-1/3 gallons a minute $2\frac{1}{2}$ feet above ground on May 18, 1937.	217	<u>4</u> 4	1936	, С,п	. D	2 1
218+May 18, 1937FlowsSMeasured flow 25 gallons a minute 3219+dc.FlowsD,SMeasured flow 3-1/3 gallons a minute219+dc.FlowsD,SMeasured flow 3-1/3 gallons a minute219+dc.FlowsD,SMeasured flow 3-1/3 gallons a minute	010	-		· ·		
feet above ground on May 18, 1937.219 +dc.219 feet above ground on May 18, 1937.21/2 feet above ground on May 18, 1937.	×18	} +	May 18, 1937	F.TOM2	S	Measured flow 25 gallons a minute 3
219+dc.FlowsD,SMeasured flow 3-1/3 gallons a minute21/2feet above ground on May 18, 1937.		, 1	; • • • • • • • • • • • • • • • • • • •		: 	feet above ground on May 18, 1937.
25 feet above ground on May 18, 1937.	z19	+	de.	Flows	D,S	Measured flow 3-1/3 gallons a minute
		1919 - Mary Marine Mary 1919 - Taylor Marine Mary 1919 - 1919		1	:	25 feet above ground on May 18, 1937.

	Records	υſ	wells	and	springs	in	Brazcria	County	 Continued
_				~~~~~				- oun of	 • Our o Turdo a
		_				_			

	1	1	1	1	1		Height of
Well	Distance	Owner	Driller	Date	Depth	Diam-	measuring
	from	1 1	1	com-	of	eter	point
	Freeport	a 9 9	1	ple-	well	of	above
		1	1	ted	(ft.)	well	ground
	1	1	1 4	;		(in.)	(rt.) a/
220	7 miles	Mrs. R. E. L.	Henry Lane	1940	208	4	.3
	west	Stringfellow	, 1 1	:			1
221	5] miles	Freeport Sulphur	Layne-Texas Co.	; 01d	196	10,	
	northwest	Co.		1		6	2 }
			a 1 1	1			- - 1
) }	1	1		
				1	1		
222	$4\frac{1}{2}$ miles	do.	do.	01d	210	10,	
	northwest		۱ ۱	1	}	6	
223	2 _호 miles	Mrs. R. E. L.	Henry Lane	1941	215	4	
	northwest	Stringfellow		1	· · · · · · · · · · · · · · · · · · ·		
224	3 miles	do.	do.	1940	250	4	•5
	west			;	• ; ;]		
225	do.	do.		01d	1,100+	3	•0
	1		, 1 1	1			
226	4 miles	R. E. L.	Henry Lane	1941	245	4	~-
	west	Stringfellow		1	· · · · · ·	1	
227	do.	Mrs. R. E. L.	d0∙	1940	212	4	• 6
	1	Stringfellow		1	1 I ; 1		
228	4 ¹ / ₂ miles	Freeport Sulphur	Layne-Texas Co.	01d	207	10,	
	west	Co.		; ;	i i	0	
229	3 ¹ / ₂ miles	Mrs. R. E. L.	Henry Lane	1940	215	4	1.2
	southwest	Stringfellow		1			
230	4 miles	Freeport Sulphur	Layne-Texas Co.	01d	203	10,	
	southwest	Co.			1	6	
231	4늘 miles	do.	do.	01d	207	10,	
	southwest			1	1 	6	
232	do.	U. S. Engineers	do.	1943	241	6,	
	3					4	
				; ; ;			
	Distance f:	rom	,				
	Velasco	(Wells ea	ast of Brazos Riv	er)			
300	4호 miles	U. S. Engineers	Layne-Texas Co.	1943	230	6,	
	southwest			1 ¢	1 1	4	
	1			1			
301	3 miles	Reed well			598	1	
	southwest						
302	3 miles	W. J. Bryan	L. Patterson	1930	570	2,	•0
	south			1	1	15	
303	$2\frac{1}{4}$ miles	Defense Plant	Layne-Texas Co.	1943	224	16,	
1	southwest	Corp. No. 7		1 .		8	
1	1		5 1	1	1	:	
704	9 mile-	Mho Dow () and a		1040			
304	~ miles	The Dow Chemical	d o.	, 1940	253	тз,	
1	Southwest	00. No. 7	- 1 1	1 1	1	6	
305	1± milor	The Dev Chamines		1040	054		
000	T <u>5</u> miles	The Dow Chemical	u0.	1940	204	13,	
1	SCULIWESC	00. NO. 6		1		Ь	
	1			1	1	1	
	1			1 1			

	WATER	LEVEL	1 1	i t	
Wel	1 Above (+) below	or Date of measurement	Method of	Use of	Remarks
	land surface (ft.)		lift b/	water	1
220	5.7	July 11, 1941	C,W	S	dennes dennes portugen var serveren den sonnes finderen en egyneken. 1 1 1
221			·		This well and wells 222, 228, 230, and 231 formerly furnished water for Bryan's Mound sulphur mine, wells and mine were abandoned about 1922. Known as Jones Creek No. 5. Screen in sand
222				*****	Known as <u>at 159-194 feet.See log</u> Jones Creek No. 4. Screen in sand at
223			C,W	D,S	172-208 feet. See log.
224	9.6	July 11, 1941	C,W	D,S	
225	i + !	do.	Flows	D,S	Flow 25 gallons a minute 3 feet above ground on July 11, 1941.
226			C,W	S	
227	10.1	July 11, 1941	C,W	S	
228	1		i	; ;	Known as Jones Creek No. 3. Screen in sand at 170-204 feet. See log.
229	8.5	July 11, 1941	C,W	S	
230	1. 1. 1.				Known as Jones Creek No. 2. Screen in sand at 175-200 feet. See log.
231					Known as Jones Creek No. 1. Screen in sand at 175-204 feet. See log.
232	6 /31	Sept.27, 1943	T,E, 5	D,Irr	Screen in sand at 204-235 feet. Draw- down 42 feet while pumping 73 gallons a minute when drilled. See log.
	A				
300	<u>d</u> /29	Sept.14, 1943	T,E, 5	D,Irr	Screen in sand at 190-224 feet. Draw- down 17 feet while pumping 110 gallons a minute when drilled. See log.
301					Known as Reed well. See log.
302	9 /+15	Oct. 30, 1936	Flows, C,W	D	Flow 4 gallons a minute on Ostober 30, 1936.
303			T,E, 30	Ind	Gravel-walled. This well and wells 330 to 337 were operated by Dow Mag- nesium Corporation for government dur- ing war. Screen in sand at 184-217
304	ā /28 ā/83	June 2, 1940 June, 1941	T,E, 30	Ind	Gravel-walled. <u>feet</u> . <u>See log</u> . Drawdown 34 feet after pumping 425 gallons a minute for 24 hours when
305	¢/22 ¢/74	May 15, 1940 June, 1941	T,E, 30	Ind	Gravel-walled: drilled. See log. Screen in sand at 221-248 feet. Draw- down 45 feet after pumping 425 gallons a minute for 24 hours when drilled. See log.

Records of wells and springs in Brazoria County -- Continued

		:	1	1	·	,	Height of
Well	Distance	Owner	Driller	Date	Depth	Diam-	measuring
	from			com-	of	eter	point
	Velasco		, 1 1	ple	well	of	above
			1	ted	(ft.)	well	ground
	1		1 !			(in.)	: (ft.) <u>a</u> /
306	In Freeport	The Dow Chemical	Layne-Texas Co.	1942	277		
		Co. No. 13	, , ,	-	070		{
307	do.	The Dow Chemical Co. No. 14	d o.	1942	230	8	
308	do.	City of Freeport	do.	1941	249	14,	1.5
		No. 6	1	•		8	2
;	i		2 1	1	1		:
:	,		1 1		:		
1			2 1 9	;	: :		4 2
309	do.	City of Freeport	A. E. Fawcett,	1942	249	12,	
I		No. 7	Jr.	t :	1	8	
310	do.	City of Freeport	Freeport Sulphur	1920	251	6	
•		No. 3	Co.		:		5 1 1
	1		* * *	1 1 1	• •		·
		City of Program	do	1020	250	6	
311	d Q.	No. 4		1920	200	0	
312	do.	City of Freeport	Lavne-Texas Co.	1936	250	6	
		No. 5		1	:		1 1
313	l ä miles	The Dow Chemical	do.	1940	252	13,	
:	southeast	Cc. No. 5	5 1 1	, ,	: ;	6	T 5 1
1			1	1 1	1		
7774	01	The Day Chamical		1041	260	16	L
314	2 2 miles	The Dow Chemical	a 0.	1341	209	10, 8	
:	southeast	00. 10. 11		1	: 	U	
315	do.	The Dow Chemical	do.	1940	265	13,	
	1	Co. No. 2)]	1	1	6	8
1			8 1 8	5 5 7	1	1	2
				 			· · · · · · · · · · · · · · · · · · ·
316	2 ₂ miles	The Dow Chemical	do.	1942	1,130	12,	
	southeast	CO. NO. 12	1	1 5 4	1	8	5
319	21 miles	The Dow Chemical	do.	1941	1 127	13.	
	southeast	Co. No. 9			, _, _~.	8	
1				1 e	1		
318	do.	The Dow Chemical	do.	1940	241	13,	
1		Co. No. 1		1 1	•	6	
:	1		1)] 	1		
310	do	The Dow Chemical	do.	1941	1 1 77	12	
019	u u .	Co. No. 10		, 1941	1,107	10,	
1	1		1 1 1	8 8 5	1	Ű	
320	do.	The Dow Cemical	do.	1940	252	13,	
1	,	Co. No. 3	,) 1	5 F 1	1	6	
• 1			1	1	1		
1	3		; 1	,]]			
•	1		1	1) •		1

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	MATTR'D	1 40761			
Well	Above (+) or	Date of	Method	Use	Remarks
	below	measurement	of	of	
* • -	land		lift	water	
	surrace (ft.)		ה י ן	े।	
306	1	1	1	1	Abandoned, insufficient sand to make a well. See log.
307	1	1	Т, Е, 30	Ind	Screen in sand at 174-230 feet. Gravel- walled. See log.
308	d/58.5 112.9	June 27, 1941 Oct. 26, 1946	П, Е, 30	р	This well and well 309 have furnished the Freeport public supply since 1342. Screen in sends between 206-247 feet. Gravel-welled. Drawdown 77 feet after pumping 420 gallons a minute for 24 hours when drilled. See log.
309		8	т,Е, 15,	р,	Screen at 206-234 feet. Gravel-walled. Yield 278 gallons a minute in 1946;
310	<u>4</u> /38	Apr. 1934	None	z	This well and wells 311 and See log. 312 furnished the Freeport public supply before 1941. Yield was 60 gal-
311	<u>4</u> /38	Apr. 1934	None	z	Screen at 251-349 feet. See log.
312	-	1	None	z	See log.
313	d/41 <u>1</u> /22	June 1940 Aug. 20, 1940	년, 년, 50 , 년	Ind	Screen in sand at 211-243 feet. Gra- vel-walled. Drawdown 45 feet after pumping 420 gallons a minute for 24 hcurs when drilled. See log.
314	<u>å</u> /94	Dac. 29, 1941	т,Е, 50	Ind	Screen in sand at 228-264 feet. Gravel- walled. Drawdown 54 feet after pumping 335 gallons a minute for 24 hours when
315	d/19 <u>d</u> /98	June 15, 1940 June 1941	н Н	Ind	Screen in sand at [drilled. See log. 213-256 feet. Gravel-walled. Drawdown 49 feet after pumping 350 gallons a minute for 24 hours when drilled. See
316	d/+	Jan: 23, 1942	Т,Е, 60	Ind	Screen in sand at 965-1,130 feet. log. Gravel-walled. Flowed when drilled, yield by pump 875 gallons a minute.
317	<u>ਵ</u> /+	July 18, 1941	Т,Е, 60	Ind	Screen in sand at 987- See log. 1,124 feet. Gravel-walled. Flowed when drilled, yield by pump 1,280
318	دً/105 د/105	Mar. 29, 1940 June 1941	т, Е	Ind	Screen <u>gallons a minute. Sce log.</u> in sand at 198-235 feet. Gravel-walled. Drawdown 76 feet after pumping 400 gallons a minute for 24 hours when
319	6		т, щ, 60	Ind	Screen in sands drilled. See log. between 981 and 1,135 feet. Gravel- walled. Yield 800 gallons a minute
320	a/18 47100	Apr. 25, 1940 June 1941	ч Зо Н	z	Not used when drilled. See log. since December 15, 1943. Screen in sand at 226-246 feet. Gravel-walled. Drawdown 61 feet after pumping 250 gallons for 24 hours when drilled. See log.

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Well	Distance	Owner	Driller	Date	Depth	Diam-	measuring
	from			com-	of	eter	point
	Velasco			ple-	well	of	above
			1	ted	(ft.)	well	ground
	1		1 1 1	1 1	:	(in.)	(ft.) <u>a</u> /
321	$2\frac{9}{4}$ miles	The Dow Chemical	Layne-Texas Co.	1940	273	13,	
	southeast	Cc. No. 4		1 1 1	1 : :	6	2 5 6
322	3 miles	The Dow Chemical	i do.	1940	263	13,	
	southeast	Co. No. 8	1	:	1	6	1 8 8
				: • 1	1	1	P •
			: 1 2	1	• •	1	
323	3 1 miles	U. S. Army	L. Patterson	1942	257	4	
	southeast		; 1			1	
324	do.			1895	600 <u>⁺</u>	2	•0
325	4 miles	C. H. Alexander.	Gus Warnecke	1892	1,050	10	•0
	east	Jr.	:	1	,		
326	4 mile	Missouri Pacific		44	267	6,	
	northeast	Ry. Co.	1 1 1	1 1 1		4	
327	In Velasco	City of Velasco	Layne-Texas Co.	¦ 1945	255	10,	1.5
1		No. 2		3		5	
328	10.	City of Velasco	do.	1941	266	10.	2.0
0201		No. 1				5	
1				1			
720	73 milog	Miccouri Praifia	do	1012	240	<u> </u>	
329.	northwast	By, Co.	u u ,	1340	240	6	
1	nor unwest	1(y . 00.	1			Ŭ	
330	do.	Defense Plant	do.	1942	239	16,	
1	1	Corp. No. 5	1			8	
331	3 ¹ / ₂ miles ;	Defense Plant	do.	1942	248	16,	
1	northwest	Corp. No. 2	1			8	
770		Defence Dient	<u></u>	1012	225	16	
332	$c_{\overline{4}}$ Miles	Com No 1		1340	660	то, 8	
1	101.011402.0	00124 100 1				C,	
;			1				· · · · · · · · · · · · · · · · · · ·
333	3 ¹ / ₄ miles	Defense Plant	do.	1942	223	16,	
, 1 1	northwest	Corp. No. 3				8	
1	1					1	
				1040	077	10	
334	do.	Derense Plant	۵0.	1942	237	10, 0	
335	do	Defense Plant	do.	1942	241	16	
		Corp. No. 4		TAIN		8	
1	1						
336	3 miles	Defense Plant	do.	1942	1,238	12,	
1 1 1	northwest	Corp. No. 9	: 			8	
	1		1			1	
:			1			1	
1			1				

•

	WATER	LEVEL	1	1	
Well	Above (+) or	Date of	Method	0 USO	Remarks
	below	measurement	of	of	
	Land	1 1	lift	water	
1	surface:		<u>b</u> /	<u>9</u>	
	(10,)				General et 200 207 freet (m
321	20	Aug. 5, 1940	1,5,	Ind	Boreen in sam at 220-200 leet. Gra
1	<u>a</u> /104	June 1941	50		ing 420 collong a minute for 24 hou
7991	3/ 77	Nov 15 1040	-	NT	Not used when drilled See low
002		1041	, 1,£,	1 10	since May 5 1944 Screen in cand
1	<u>-</u> /115	, June 1541		1	220.247 feet. Gravel-welled. Drawd
1			, 1	:	'88 feet after pumping 210 gallons a
		1	1	1	minute for 24 hours when drilled.
3231	å / <u>87</u>	July 1942	•	·	Supplied water for small army
0.01		i arg		-	bost during war. See log.
324	2/+ 9	loct. 30, 1936	Flows	Ind	Flow 10 gallons a minute on October
	<u> </u>	1			30. 1936.
325	+	Apr. 14. 1931	Flows	N	Flow 300 gallons a minute on April
		May 27, 1936		1	14, 1931. Temperature 84° F.
326				RR	See log.
			•	1	
327	d/ 93.5	Feb. 19, 1946	Τ,Ε,	P	Screen in sand at 218-245 feet. Gra
1	97.5	Oct. 11, 1946	15	1	walled. Drawdown 21 feet after pur
				į	ing 160 gallons a minute for 8 hour
328	d / 84	Aug. 20, 1941	Τ,Ε,	; P	Screen in when drilled. See
!	101.3	Oct. 11, 1946	15	1	sand at 216-263 feet. Gravel-walled
			1		Drawdown 15 feet while pumping 200
			1		gallons a minute when drilled. See
329¦	9 / 16	Mar. 2, 1942		¦ RR	Screen in sand at 196-234 feet. Dra
	-	1 1	1	1	down 24 feet while pumping 120 gall
		<u> </u>	+		a minute when drilled. See log.
330	<u>c</u> / 23	Apr. 26, 1942	Т,Е,	Ind	Screen in sand at 199-229 feet. Gra
	d7 00	1 1 1 1 0 1 0		T. 3	Walled, See log.
331	u 30	Apr. 14, 1942	T,E,	Ind	Screen in sand at 211-200 leet. Gra
1	•	1	1 50	1	Walled. Drawdown 75 leet alter pun
7720	5/17	Fob 13 1049	1 11 12	Tnd	Sanoon when drilled See log
1000	1 0	1200 10, 1746			in and at 199-225 fast. Chaval-wel
1			00	i t	Drawdown 43 feet after numning 100
1			:	1	lons a minute for 24 hours when dri
333	a/ 10	Jan. 30. 1942	T.E.	Ind	Screen in sand at ed. See
		· · · · · · · · · · · · · · · · · · ·	50		175-222 feet. Gravel-walled. Draw-
1			1	1	down 14 feet while pumping 520 gall
i			1	1 1	a minute when drilled. See log.
334		t	T,E,	Ind	Screens in sands between 152 and 23
		l 1		1	feet. Gravel-walled. See log.
335		: ;	Т,Е,	Ind	Screen in sand at 204-239 feet. Gra
1		1	50	i 1	walled, Drawdown 46 feet after pun
			1	1	ing 455 gallons a minute for 24 hou
336	C₁/+ 4	July 24, 1942	T,E	Ind	Screen in when drilled. See 1
		р •	1	1	sands between 902 and 1,062 feet.
		4		!	Gravel-walled. Drawdown 34 feet af
			1	*	pumping 800 gallons a minute for 24
			1	i	hours when drilled. Temperature 84
•					

Records of wells and springs in Brazoria County -- Continued

			1	; ;			Height of
Well	Distance	Owner	Driller	Date	Depth	Diam-	measuring
	from	1 2	: 	com-	of	eter	noint
	Velasco	1	2	ple-	well	of	above
				ted	(ft.)	well	ground
	1	1	\ }	1		(in.)	(ft.) a/
337	31 miles	Defense Flant	Layne-Texas Co.	1942	1,065	12.	
	northwest	Corp. No. 8	1	:		8	, 1 2
		! :	1	:			4 1
338	$3\frac{3}{4}$ miles	Defense Plant	de.	1942	239	12,	·
	ncrthwest	Corp.		1		6	- 1 1
				1			1
339	4 miles	do.	do.	1942	203	12,	
	northwest			1		6	
340	3 miles	do.	do.	1942	230	10,	
:	northwest			: !		7	1
341	4 miles	Defense Plant	do.	1943	233	8	
1	northwest	Corp. N. 8		, 1			
	1			1) :		1
	1			·			
542	4늘 miles	Defense Plant	do.	1943	234	8	
	northwest	Corp. No. 10		i 	<u> </u>		
343 ¦	$4\frac{1}{4}$ miles	Defense Plant	do.	1943	230	8	
	northwest	Corp. No. 9			· · · · · · · · · · · · · · · · · · ·		
544	9 miles	The Dow Chemical	do.	1946	; 188 ;	4늘	
	northwest ;	Co. Nc. 2		:			
3.5	9ġ miles	City of Lake	do.	1943	190	З늘	
	nor hwest	Jackson No. 4					
346	In Lake	City of Lake	L. Patterson	1942	202	4	
1	Jackson	Jackson No. 3					
347	do.	City of Lake	Layne-Texas Co.	1943	234	16,	
:	•	Jackson No. 2		1	: :	8	
:	1			!			
740		City of Take	do	1042	105	16	
540	u 0 .	Traken No. 1	40.	1942	190	10,	
1	,	Jackson NO. 1		1		8	
340	61 milos	Mrc P F I		1 •	10/	2	
C # 0	nonthwest	Stringfellow			104	د د	
350		do	Henry Jane	1941	745	2	
000	u 0 ,	40.	mentry hane	1941		~	
351	54 miles	C. L. Cobb	Lee Cobb	1938	234	2	0.4
001	northwest		Tec cent	1000	~01	11	0.1
352	7 miles	The Texas Co.	The Teras Co.	1920	2 335		
000	northwest	ine igade det		1000	~,000		
353	6 miles	E. A. Brock	W. E. Patterson	1927	801	21	
	northwest	IT AT DIOUR				~ .	
354	5a miles	de.	do.	1927	446	2	
:	northwest			1		~	
355	7 miles	J. T. Stratton	L. Patterson	1927	578	2	
1	north			1			
356	do.	The Dow Chemical		1946	145	6	3.0
	- 1	Co.				, i	
357	do.	F. A. Brock	L. Patterson	1938	847	4	
:	;			1	,, , , , ,		
*358	9 miles !	Mrs. R. E. L.	Henry Lane	1941	292	4	.9
	northwest	Stringfellow		1		-	-
*		11. 750	1				

* For record of well 359, see pages 54 and 55,

	WATER	LEVEL	1	1	
Well	Above (+) or	Date of	Method	Use	Remarks
	helow	measurement	of	of	1
	land	1	.]ift	water	
	surface	1		1 R/	
	(ft.)	1			1
		+	<u> </u>		
357			Т,Е,	Ind	Screen in sands below 924 feet. Gravel-
	1		60		walled. Yield 810 gallons a minute
	i		5 6	1	when drilled. Temperature 82° F.See log.
338	· C/ 10	Feb. 26. 1942	T.E.	N	This well and wells 339 and 340 fur-
	· • • •		25	:	nished water for temporary housing
	: 		20		nroject: Known as Camp Chemical No
770	27 15	Fab 05 1049	ייד דו	Tud	Carpon in gonda at 115 207 Cas los
228	<u>u</u> 10	1 1 80 • 20, 194 2	1, 1,	Tua	Screen in saids at 115-205 [See 10g.
	·		20	<u>.</u>	Teet. Anown as camp chemical No. 2.
340	<u>0</u> /44	Aug. 19, 1942	Ъ,Т,Е	Ind	Screen in sand at 198-230 [See log.
	۱ د	1 4			feet, Known as Camp Chemical No. 3.
341			Τ,Ε,	Ind	Wells 341 to 343 operated See log.
	Y Y		50		by Dow Styrene Corporation for govern-
					ment during war. Screen in sand at
					211-231 feet. Gravel-walled. See log.
342		······	<u></u>	Ind	Screen in sand at 200-230 feet. Gravel-
01.			50	-114	walled. See log.
747	d / 40	Ture 20 10/7	- <u>10</u>	Ind	Samoon in gend at 200 207 foot (manol-
340	u / 40	June 22, 1940	1,E, ;	-nu	screen in salu at cou-con reet. Graver-
	37.5-			T T 1	Walled. See log.
344	<u>a</u> / 15	July 30, 1946	J,E	D, Ind	Screen in sand at 143-185 feet. See
		1	·····		10g.
3 45	ℓ / 9.5	Jan. 1, 1943	J,E, ;	P	Screen in sand at 145-179 feet. See
1	· · · · · · · · · · · · · · · · · · ·	5 5	1		log.
346	∂ / 14	July 12, 1942	None	Ň	Abandoned after supplying water during
1				1	construction, Screen at 178-202 feet.
347	d/ 30	July 8, 1943	T.E.	P	This well and well 348 fur- See log.
01.			-,-,	1	nish the Lake Jackson public supply.
			00	!	Screen in gands between 164 and 230
1		, I	i	1	feat Crowelled Soo log
	a/ 50	Sent 12 1040	F		Server in cond et 150 100 feet (nevel
348		, Sept. 18, 1942	1,E, I	r y	Dereen in sand at 105-179 lest. Graver-
	$\frac{\alpha}{37}$	June 1946	30	1	walled. Drawdown 38 feet while pumping
			1 		300 gallons a minute when drilled. See
349	d / 10	July 1941;	C,W	D,S ;	lcg.
1			1	!	
350					Not completed when visited in 1941.
		1 1	L 1	1	See log.
351	8.6	May 27, 1939	C.H	Di	Screened bottom 8 feet.
	0.0		- ,		
352					Oil test Cochran and McClure leace
100					Goo portial log
757		M. OF TOPO			NEC Partial IVE
303	T	may 25, 1939	LTOM2	Ъ	riew o gailons a minute o feet above
1					ground on May 25, 1939,
354			C,W	S	
		· · · · · · · · · · · · · · · · · · ·		1	
355	+	May 25, 1939	Flows	D	Flowed 1g feet above ground on May 25,
			C.W		1939.
356	21.4	Oct. 7, 1946!			Just completed when visited.
1		,			•
357	+	May 25 1939!	Flows	S	Flow 25 gallons a minute on May 25
				~	1939.
358	9.9	דואסו ון אוויד	C W	2	
	2.0	JULY II, 1941	♥,₩	0	
			;	:	

Well Distance Owner Driller Det Depth Distant measuring compoint well well well well well well well wel		,		3	:	1 1	:	Height of
from Angleton con- (Wells east of Frazos River) con- ted of (ft.) of of well above ground (ft.) 400 10g miles Texas Frison System 7001 4 400 10g miles Texas Frison System 7001 4 401 12 miles do. 100. 1938 6601 8. .0 403 do. do. 1931 6602 8. .0 403 do. do. 1931 6602 6. .0 404 8 miles The Dow Chemical 1943 3000 405 do. do. 1943 3000 406 do. do. 1943 3000 406 do. do. 1943 300 408 miles Texas Fristan System Tom Worrel 1931 <td< td=""><td>Well</td><td>Distance</td><td>Owner</td><td>Driller</td><td>Date</td><td>Depth</td><td>Diam-</td><td>measuring</td></td<>	Well	Distance	Owner	Driller	Date	Depth	Diam-	measuring
Angleton (Wells east of Brazos River) ple- ted (Ft.) above (ft.) 400 10g miles Texas Prison System 7001 4 401 12 miles do. Tom Worrel 1940 660 6, .0 101 morthwest do. do. 1938 6602 8, .0 northwest do. do. do. 1938 6602 6, .0 403 do. do. 1943 300 405 do. do. 1943 300 406 do. do. 1943 300 406 do. do. 1943 300 407 miles Texes Frisun System Tom Worrel 1931 650 4, 407 morthwest Ransey State Ferm Tom Worrel 1931 650 4 408 morth Dr. Ex <td></td> <td>from</td> <td></td> <td>1</td> <td>com-</td> <td>of</td> <td>eter</td> <td>point</td>		from		1	com-	of	eter	point
ted (Tr.) <		Angleton			ple-	well	of	above
(mells east of Prazos River) (in.) (ft.) a/ 400 10g miles Toxas Prison System 7004 4 401 12 miles do. Tom Worrel 1940 660 6, .0 401 12 miles do. do. 1958 5604 4 403 do. do. do. 1958 5604 8, .0 northwest northwest do. 1943 300 403 do. do. 1943 300 404 8 miles The Dow Chemical 1943 300 405 do. do. 1943 300 406 B miles Texas Frison System Tom Worrel 1943 520 4 407 7 miles Texas Pripe Line L. Patterson 1943 918	·	1 7 1 1		1	ted	(ft.)	well	ground
400 10g miles Texes Prison System 7001 74 401 12 miles do. Tom Worrel 1940 660 6. -0 401 10g miles do. do. 1931 6501 6 .0 403 do. do. 1931 6502 6 .0 404 B miles The Dow Chemical 1943 300 405 do. do. 1943 300 405 do. do. 1943 300 406 do. do. 1943 300 407 7 miles Texas Prisun System Tom Worrel 1931 650 4 408 # Diss Texas Prisun System Tom Worrel 1943 520 4 9 miles F. W. Turner, Jr. do. 1943 918 4 10 Inorth <td></td> <td>:</td> <td>(Wells east of</td> <td>of Brazos River)</td> <td>1 1</td> <td>:)</td> <td>(in.)</td> <td>(ft.) <u>a</u>/</td>		:	(Wells east of	of Brazos River)	1 1	:)	(in.)	(ft.) <u>a</u> /
Iortneest Hamsey State Farm Tom Worrel 1940 660 6. .0 401 12 miles do. do. 1938 6601 8. .0 402 10g miles do. do. 1938 6601 8. .0 403 do. do. do. 1931 6504 6. .0 404 8 miles The Dow Chemical 1943 3000 405 do. do. 1943 3000 406 do. do. 1943 300 406 do. do. 1943 300 406 do. do. 1943 300 407 7 miles Ransey State Farm Tom Worrel 1931 650 4 408 8 miles F. W. Turner, Jr. do.	400	10支 miles	Texas Prison System	1		700 <u>+</u>	4	
400, 12 miles ac. Tom Worrel 1940 660 6, .0 402 10g miles do. do. 1958 660± 8, .0 403 do. do. do. 1958 660± 8, .0 403 do. do. do. 1931 650± 6, .0 404 8 miles The Dow Chemical 1943 300 405 do. do. 1943 300 406 do. do. 1943 300 406 do. do. 1943 300 407 7 miles Texas Prisen System Tom Worrel 1931 650 4 408 8 miles F. W. Turner, Jr. do. 1943 396 4 9 morth Co. L. Patterson 1943 918 4 410 do. do. Layne-Texas Co	401	northwest	Ramsey State Farm					
Informest 4 4 1402 10g miles do. 1938 6602 8 .0 1402 10g miles do. 1931 6502 6 .0 1403 do. do. 1931 6502 6 .0 1404 8 miles The Dow Chemical 1943 300 1405 do. do. do. 1943 300 1406 do. do. do. 1943 300 1407 7 miles Texas Prison System Tom Worrel 1931 650 4 1406 8 miles F. W. Turner, Jr. do. 1943 520 4 1401 0 miles Dr. B. W. Turner, Jr. do. 1944 396 4 1.9 1411 do. do. 1942 918 4 <td>401</td> <td>, La miles ;</td> <td>ac.</td> <td>Tom worrel</td> <td>1940</td> <td>660</td> <td>, 6,</td> <td>1 • ()</td>	401	, La miles ;	ac.	Tom worrel	1940	660	, 6,	1 • ()
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northwestCo.1943300405do.do1943300406do.do19433004077 miles northwestTexas Frison System Ramsey State FarmTon Worrel19316504, 224088 milesTexas Pipe Line northL. Patterson194352044099 milesF. W. Turner, Jr. northdo.104439841.9941010 miles northDr. B. W. Turner do.do.19439184411do.do.Layne-Texas Co.192692324, 1.51.54129 miles northArney Estatedo.19331,16824, 1.51.54139 miles northHumble Oil and Refining Co.L. Patterson194031242.2414do.do.do.1936400t41.71.74159 miles northeastdo.do.19363116, 3.73.741610 miles northeastdo.do.194331541.94189 miles northeastdo.do.194451442.64189 miles northeastdo.do.194444144.24189 miles northeastdo.do.194444144.2 </td <td>404</td> <td>8 miles</td> <td>The Dow Chemical</td> <td>, </td> <td>1943</td> <td>300</td> <td></td> <td>+ - ·</td>	404	8 miles	The Dow Chemical	, 	1943	300		+ - ·
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northeastdo.do.194451442.64189 milesdo.do.194451442.6419 $8\frac{1}{2}$ milesdo.do.194642244209 milesdc.do.194444144.2	417	9g miles	do.	do.	1943	315	4	1.9
4189 miles northeastdo.194451442.6419 $8\frac{1}{2}$ miles northeastdo.do.194642244209 miles northeastdc.do.194444144.2		northeast						
northeastdo.do.19464224419 $8\frac{1}{2}$ milesdo.do.19464224northeastdo.do.194444144.24209 milesdc.do.19444414	418	9 miles	do.	do.	1944	514	4	2.6
419 85 miles do. 1946 422 4 northeast 420 9 miles do. 1944 441 4 4.2 northeast do. 1944 441 4 4.2	410	northeast						-
420 9 miles dc. do. 1944 441 4 4.2	4TA	of miles	ao.	۵٥.	1946 }	422	4	
$1 \sim 0$ $1 \sim 100$ 1044 441 4 4.2	420	9 milog	de	de la	1044			4 0
	120	northeast	u v •	u u.	1244	441	4	4•2
421 10 miles do. 1945 309 4 27	421	10 miles	do.	do.	1945	309		2.7
northeast		northeast	··· -			000		~ 1

1

Records of wells and springs in Brazoria County -- Continued

- 34 -
| - | WATER | FVTT. | | | 1 |
|-------------------|--------------------------------------------|---------------|-----------------------|-------------|----------------------------------------|
| Well | Above (+) or | Date of | Method | Use | Remarks |
| NOLL | below | measurement | of | of | |
| | land | | lift | water | |
| | surface | • | ະ
ະ/ | 6/ | |
| | (ft.) | • | <u> </u> | | |
| 400 | | | C.W.G | S | Flowed 4 gallons a minute 44 inches |
| 100 | •
• | 4
4 | | } ~ | above ground on April 13, 1931. Ceased |
| 401 | d/ 12 | 1940 | C.E | P | At unit to flow in 1931 or 1932. |
| 104 | | 2010 | -,- | - | 2. |
| 402 | d/ 7 | 1938 | E T | P | At unit 1. Screened hottom 38 feet. |
| 10~ | d o | 1945 | · · · · | - | Yield 50 gallons a minute. |
| 403 | 4/ 15 | <u>1946</u> | T.G | Trr | At unit 1. Vegetable shed. Screened |
| 100 | 2/ 10 | 1010 | , 1,4 | | bottom 20 feet. |
| 104 | l | | | | Core test 1 of 11 at reservoir site. |
| 104 | | | | 1 | See log. |
| 105 | 5 | | | L | Core test 5. See log. |
| ~±00 | | | | | 10019 0920 0. DOG 108. |
| ÷06 | ·
• • • • • • • • • • • • • • • • • • • | | | l | Coro tost 11 Sec 100 |
| 406 | | | | | oure test II. See log. |
| 100 | | 1 | | | Wiew i sollow a minute i feat shows |
| 407 | + | UCT. 8, 1946 | FLOWS | | FIOW I gallon a minute I loot above |
| 100 | | 1
 | ,
,
,
,
, | | ground, remperature 745 F. |
| 408 | | | Т,Е, | D,S, | Screen at 496-520 1991. See 10g. |
| | | 1 | ,
 | Ina | General COD COD Acat |
| · 1 09 | 14.7 | NOV. 15, 1946 | J,E | D,S | Screen at 382-398 feet. |
| - | • <u></u> |)
 | | | |
| 410 | | | T,E, | ; D,S | Screen at 898-918 feet. See tog. |
| | | | 3 | | |
| 411 | 2.6 | Apr. 13, 1931 | None | N | Used to irrigate rice until 1944. |
| | 12.1 | Nov. 15, 1946 | !
! | 1 | Deepened from 528 to 923 feet in 1908. |
| | | | !
1 | 1 | Screens in 8 sands between 191 and 416 |
| | 1
1 | 1.
1. | 1 | 9
1 | feet. Drawdown 60 feet while pumping |
| | | | | !
 | 1,200 gallons a minute in 1928. See |
| 412 | <u>c</u> /+ | Mar. 7, 1933 | ¦ Т,G, | Irr | Used for rice irrigation. 10g, |
| | 11.4 | Nov. 15, 1946 | 120 | 1 | Screens in 8 sands between 242 and |
| | | 1 | 1 |)
†
1 | 1,164 feet. Yield to pump 2,100 gal- |
| | 1 | | 1 | i
t | lons a minute with pumping level 127 |
| | | | | | feet, flowed when drilled. See 10g. |
| 413 | 2.4 | July 29, 1946 | None | N | Wells 413-422 supplied drilling rigs. |
| | | l | | !
! | Screen at 289-312 feet. B. Blakely |
| 414 | a / 10 | Sept. 2, 1942 | None | N | Casing pulled. B. lease. See log. |
| | | 1 | !
! | 1 | Blakely B-lease. Screen 227-250 feet. |
| 415 | 1.1 | July 29, 1946 | None | N | W. A. Moller lease. See log. |
| | | 1 | ډ
۱ | 1
1
1 | |
| 416 | 1.9 | do. | None | N | W. A. Moller lease. Screen at 265- |
| | ۱ | 1
3 | l
L | 1 | 306 feet. See log. |
| 417 | + 0.9 | do. | None | N | B. Blakely D lease. Screen at 289-310 |
| | | 5
5 |)
1 | 1 | feet. See log. |
| 418 | 26.8 | do. | None | N | B. Blakely D lease. Screen at 491-514 |
| | ! | | ! | 1 | feet. See log. |
| 419 | · · · · · · · · · · · · · · · · · · · | | None | N | Failed to furnish enough water. W. L. |
| | 1 | | 1 | !
! | Clayton lease. Screen at 397-421 feet. |
| 420 | 29.9 | July 29, 1946 | None | N | F. Schmidt lease. Screen See log |
| | I
§ | | ;
1 | ;
;
; | at 418-441 feet. See log. |
| 421 | 2.5 | do. | None | N | C. Dvorsky lease. Screen at 285-309 |
| | 1 | 1 | 1
1 | 1 | feet. See log. |
| | | | | | |

•

	1	1		i	1	Height O		
Well	Distance	Owner	Driller	Date	Depth	'Diam-	measuring	
	from	- - -	1	com-	of	eter	point	
	Angleton	•		ple-	well	of	above	
	1	i 1	1	ted	(ft.)	well	ground	
		1 1			:	(in.)	(ft.)	
422	10 1 miles	Humble Oil and	L. Patterson	11944	355	4	$\frac{1}{10}$	
_	northeast	Refining Co.						
423	9 miles	Joe Vrazel	Toe Vrazel	1923	20	24	· · · · · · · · · · · · · · · · · · ·	
1.50	northeast			1000			1	
424	do.	Walter Paltier	Weinhrennen	1031	+ 140		:	
TOT	40.		, weindrenner	TOOT	1 1'±0	2	1	
425	7 miles	T M Skrabarak	Invno Torna Co	11027	060	24	0.5	
TNU	nontheast	J. M. DRIADaller	Layno-Iexas VU.	1 1 2 1 1	300	16	0.0	
1	noruneasu		1	1	1	10,		
, ; 1	1		: •	1		Τ¢		
126	In Donhumer	Daphung School) 	11071	06		, 	
460	In Danbury	Danbury School		, 1201	90	۵		
197		Dophymy Howysite	Couth Monte	1	600±	C	9.0	
461	uu.	Danbury Townsite	Demoloum rexas	1907		D	£•0	
420	13 miles .	Ed Derman No. D	Development Co.	11040	707	10		
460 1	41 miles	Ed Berry No. 2	Otto Michelson	1946	327	18,		
1	nortneast			1 t		12		
4.00	1			1				
429	4 miles	Ed Berry No. 1	do.	1946	324	18,	0.3	
4720	northeast					12		
430	5 miles •	Texas Agricultural	Eberspacher	1940	324	4	0.0	
	<u>ancrtheast</u>	Experiment Station	Bros.	1	;			
431	6출 miles ;	Louis Klever	Glosnich	1927	i 196 i	2		
	northeast			1	·			
432	4 miles	Humble Oil and	L. Patterson	1945	618	4	3.0	
	north	Refining Co.		1				
433	6 miles	Joe Bingham	Gus Warnecke	1914	1,300 <u>+</u> ;	4 ;	0.0	
	nerth			1		•		
434	In Anchor	Misscuri Pacific	L. Patterson	1910	635	4,	2.1	
		Ry. CO.			:	2		
435	4 miles	A. L. Hollins	Matula Bros.	1939	138	2		
	northwest							
400	$\mathcal{Z}_{\overline{4}}$ miles	R. H. Carr	R. H. Carr	1935	206	2	0.0	
4.77.71	northwest				 			
437	<pre>∠∑ miles</pre>	Humble Uil and	L. Patterson	1939	793	4	0.5	
170	northwest	Refining Co.					<u></u>	
438	~ ₄ miles	d0.	do.	1943	807	4 ;	2.5	
170	northwest							
439	2≣ miles	ao. ;	do.	1638	628	4,;		
- 440	northwest ;					3;		
440	42 miles	McCarthy Oil and	do.	1946	812 ¦	42 42	0.0	
	west 1	Gas Corp.						
441	6 miles				600 <u>+</u> ;	4	4.0	
	West			,	·····	1		
442 ;	6 [±] miles	Zoinville Oil	Zoinville Oil		3,160			
	west	Co.	Co.		1 	1		
443	10 miles	McCarthy Oil and		;	4,384			
	scuthwest	Gas Corp.		!	1			
444	9 miles	R. S. Stanger	0. Eberspacher	<u>_</u> 1933 [180	2 ;		
	southwest	3 1						
445 <u> </u>	do.	do.	L. Patterson	1929	1,000	2		
				1	1			

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	WATER	LEVEL	[1	
Well	Above (+) or	Date of	Method	Use	Remarks
	below	measurement	of	of	•
	land .	! 1	lift	water	· •
	surfece	1 1 1	<u>b</u> /	2	
	(ft.)	i Anno an ann an			
422	2.9	July 29, 1946	None	N	South Texas Rice Prod. Co. lease.
		 			Screen at 332-355 feet. See log.
423			C,W,G,	D,S	Dug. Tile curbing.
	! 	1 	2*		
424			, C,W	D	
125	1 72 TZ	Aug 20 1046	Nana	NT	Head for mice innightion until 1035
400	01.0	Hug. 68, 1940	None	11	Scheong in 5 gands between 499 and 870
		1 ,			foot Flow 50 callons a minute num
	1 5				vield 850 cellons a minute when drill-
426			CE	P	ed. See log.
180			, u, 1	T .	
427	5/ 14	1935	C H	P	Converted oil test. Flowed until
	19.4	May 18, 1939	1	.	1927.
428			T.E.	Irr	Used for rice irrigation. Casing
		•	60		slotted opposite all sands below about
					60 feet. Yield 1,800 gallons a min-
429	5.7	Nov. 14, 1946	T.E.	Irr	Do. ute.
			60		
430	J/ 14	May 1940	J,E, 4	D,S	Screen at 280-314 feet. See log.
	e/ 11	1946	1		
431			C,H,G,	D,S	
		1	1 !		
432	8.8	Oct. 7, 1946	None	N	Supplied drilling rig, M. W. Mettler
		· · · · · · · · · · · · · · · · · · ·	: 		lease. Screen at 594-617 feet. See
433	+	May 29, 1939	Flows	D,S	Flows small stream. log.
			<u>C,G</u>		
434	0.5	Apr. 14, 1931	С,Н	ַ נ	Flowed until 1929.
475					
435			С,Н	D ;	
136	a/ 10			Dal	Weter from cond at 106 206 foot
TOU	A to		0,1	ס, ע	water from sand at 180-200 feet.
437	12.2	Oct. 7 1946	None		Walls 437 Al supplied drilling rize.
	2~~~~	0000 7, 1010	NOILO	14	Scroen at 759-791 feet. R. H. Capr
438	13.2	d0.	None	N	Gelaznick and llease. See log.
					Taylor lease. Screen at 785-807 feet.
439			None	N	M. W. Mettler lease. Screen See log.
					at 588-621 feet. See log.
440	ð/ 8	Sept. 1946	A	Ind	Nichels lease. Screen at 788-812
1	-	-			feet.
441	13.9	Oct. 16, 1946	None	N	
	1			:	
442	;		None	N	Oil test on J. W. Sparks lease. See
					partial log.
443			None	N	Oil test. Electric log indicates
	 	······			sands at 96-140, 240-295, 350-410 and
444			C,W	D,S	670-330 feet.
A / E					
440		!	None	N	Flowed until 1937.
			:		

	Records	of wells and spring	s in Brazoria Vol	inty -	- vontin	iuea	
í			,				Height of
Well	Distance	Owner	Driller	Date	Depth	Diam-	measuring
- 1	from			com-	of	eter	pcint
į	Angleton		5	ple-	well	of	above
1			5	ted	(ft.)	່ພວ່າງ	ground
			1	USU	(10.)	(in)	$\frac{\beta}{1} \frac{\beta}{1} \frac{1}{1} \frac{1}$
				1070		(111.)	
446	7 miles	Texas Frison System	Tom Worrel	1939	739	2	
1	southwest	Retrieve State Farm) 1	
447	6 miles	do.	L. Patterson		450 <u>+</u>	2	
;	southwest		•		-	1	
448	5± miles	do.	Tom Worrel	1938	900+	6.	
IIO ;	og miros	401		1000		4	
440	Southwest	o 5	<u>.</u>	014	900+	71	2 5
449	6 miles	40.		UIU	900-	ుకై	2.0
	southwest		r L) 	
450 ;	3 miles	B. M. Jamison	Eberspacher		735 <u>+</u>	2	
	southwest		Bros		1		
451	3± miles	E. L. Coale	American Water	1946	490+		~
	coutheast		Co		-		
450	Southeast 63 miles			1020	260	0	0.0
452	2º miles	Otto Eberspacher	Otto Mberspacher	1929	200	2	0.0
	scutheast				i L		
453	l mile	B. M. Jamison			160	2	
:	southwest				4 7		
454	In Angleton	Texas and Louisiana	L. Patterson	1923	336	6	1.5
101		Power Co		10.00	: .		_
105		rower oo.	20	1070	4172	6	1 0
400	QQ.	City of Angleton	ac.	1928	410	0	1,2
		<u>No 2</u>			1 •		
-4:5	do.	City of Angleton	Layhe-Texas Co.	1940	1,012	10,	- •
1		No. 3	2 -		1	5	•
			2	1 . 1	5	1	
457	do.	City of Apricton	<u>.</u>	1944	933	10	
101	40.		40,	LUTT		, 10, c	
		NO• 4		5	1	. 0	8
1		1		1		1	
۱ ۱		1 1	;	1 i		!	1 1
458	4 miles	Pratt Weil	do.	1912	911	; 24,	;
1	east	3		1 1		10	t L
:		1 1		1 1	•	1	t S
1		;	•	t 8	, ,	3	1
1		1	1	1 1	5	• •	1
		1 		1	· ·		1
459	5 miles	A. E. Peterson	Otto Eberspacher	1915 ·	70	2	
	southeast	1	;	1	1	, ,	1
460	do.	L. H. Follett	L. Patterson	1940	; 301	4	0.0
		1	Y	l 1			1
461		F.F. White	1	1017	700	2	
TOT	401		1	, .			
			i ;	1.000			
4.0%	6 miles	do.	: →- 1	1928	300+	; 2	
	southeast	1	1	1		1	1
463	6 miles	Otto Eberspacher	Otto Eborspacher	1925	; 740		
1	southeast	-) 1	1	1 1	1
4.64	4ª miles	Dan Cico	Tohn Zalenek	1035	211	1 2	
101	-4 m+100			1000	~	. ~	1
ACE				<u> </u>			1
400	7 miles	Hapid City	kycade-Amerada	1	6,284		J gang daga J
	east	Development Co.	! }	i •		1 1	; 1
466	do.	C. M. Lemons	Layne-Texas Co.	01d	911	24,	
1		1	1	1 1) 1	8	1
			1	1	•	-	;)

Records of wells and springs in Brazoria County -- Continued

	WATER	LEVEL	1	1	i
Well	Above (+) or	Date of	Method	Use	Remarks
	below .	measurement	of	of	
	land	1	lift	water	1
	surface	* *	h/	0/	1
	(ft/)	8 1	; ¥	2	1 1
116			I C THE	G	Flowed when drillad. Screen at
440			0,1	L D	725 750 foot
4.45					720-739 1000.
447	1		<u>,</u> С,Е	, D	1
		: }			
448	1		C,G	D,S	Flowed until about 1942. Thirty feet
		, 1			of screen on bottom.
449	+	July 1, 1941	C,G	Ind	Supplies water for cotton gin. Flow
	4.2	Nov. 8, 1946	1		2 gallons a minute 31 feet above
450			C.W	D.S	Flowed when ground on July 1, 1941.
		• •	1	,	drilled,
451			TG	Trr	Drilled for rice irrigation, Sanded
101			-, -, -, -, -, -, -, -, -, -, -, -, -, -		up and was not used much in 1946.
452	21 60	1070	C TAT	nc	Water from cand at 240 260 foot
40%	<u>u</u> 0.0	1909	0,1	ט, ע	Water Irom Sam at 240-200 leet.
45.8	, 	, 1	- d		s An an
455			0,W	D,S	
			1		L
454	16.0	Apr. 14, 1931	A	Ind	At ice plant. Furnished Angleton
			1		public supply until 1935.
455	15.3	Oct. 10, 1946	None	N	Drilled to 1,000 feet as test and
	·				filled to 413 feet. Screen at 393-413
456	¢/ 14.0	Nov. 1, 1940	T,E	Р	Tested at 375 gallons feet. See log.
	đ / 20	Oct. 1946	1		a minute, operated at 250 gallons a
	- and	1			minute. Gravel-walled. See log.
457	d/ 21	Nov. 6 1944	TE	q	Drawdown 43 feet after numping 250
107	a/ 20	Oct. 1946	1,11	-	asllong a minute for 24 hours when
	U 200	1000• 13±0			drilled Concern in rende between
	•	2 T			
450	27	1	1		745 and 929 feet. Gravel-Walled. See
408	e4/+	Ang. TATS	None	N	Formerly used for rice irriga- 10g.
	•) [1		tion. Flow 300 gallons a minute, and
	•	5			yield to pump 2,000 gallons a minute
					when drilled. Screens in sands bet-
		· •			ween 73 and 905 feet. See log.
459	+	May 25, 1939	Flows	S	
	1	! 			
460	d/ 1.0	Nov. 1940	T.E.	D.S	Screen at 280-301 feet. See log.
	~		1	,	
461	+	May 25, 1939	Flows	5	l and a second
	8 •			Ŭ	1
462	· +	do.	TTOWN	C	
IOF.	•	i uu	TOWP	D I	1
167	, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		102	~	
400	T		L'LOWS	5	Flow T-inch stream 2 feet above ground
					on May 25, 1939.
464			C,W	D,S	
-					
465					Oil test. See partial log.
	1	L	1		
466					Formerly used for rice irrigation.
					Flowed when drilled. Screens in sanda
					between 69 and 905 feet. See log.
					Josef Dec and For Icour Dec 10g

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Records of	wells and	springs	in	Brazoria	County	/	Continued

	9 - 19 - 19 - 19 - 19 - 19 - 19 - 19 -	nantania e anun anterio a cataranti. I		1 1		:	Height of
Well	Distance	Owner	Driller	Date	Depth	Diam-	measuring
	from	1 1		ccm-	of	eter	point
	Angleton	•	, , ,	ple-	₩911	of	above
	1 	1 1 1	1 1 1	ted	(It.)	well (in.)	$\frac{\text{ground}}{(++)} a/$
467	10 miles	Friencrt Sulphur	Lavne-Texas Co.	1927	623	24.	
	east	Co. No. 18		1		15,	1 1
			1 · · · · · · · · · · · · · · · · · · ·	1	1	10	1
468	do.	Freeport Sulphur	do.	1927	241	24,	
160	do	Co. No. 20	do.	1027	614	24 15	
405		Co. No. 19		1 1 3 6 1	014	10	
470	do.	Freeport Sulphur	Freeport Sulphur	1944	239	10	
		Co. No. 25	Co.	1	1		
403				1	1		
471	do.	Freeport Sulphur	do.	1942	628	10	
1		00 , $\mathbf{N0}$, \mathbf{AC}		; } ;		-	
472	do.	Freeport Sulphur	do.	1942	235	10	~~~
1		Co. No. 23		1		1	
473	d c.	Freeport Sulphur	do.	1943	245	16,	
	3	00. NO. 24		t 5	1 1 1 1	0	
4 9 9	1			5		1	
474	do.	Freeport Sulphur		1925	592	10,	
	3	Co. No. 12		3 1	1	6	
1	1			1	1	1	
475	do.	Freenart Sulphur	Launa-Teras Co.	1925	253		
10	401	Co. test No. 4	Layne-rexas ou.	1920	700		
1	1				1	1	
		: ; ;					
476 _{	ll miles	Freeport Sulphur	Freeport Sulphur	1946	240	10	
	east	CO. NO. 28	00.			1	
1	1						
477	do.	Freeport Sulphur	do.	1944	238	10	
1	1	Cc. No. 26				1	
*170		Encourt Outstand	3 -	1045	040		
14/0	u o.	Co. No. 27	a o.	1940	£40	10	
:	1 1 1					2	
	1		1		1		
	Distance	· ·					
500.1	from Alvin	(Wells ea	st of the Brazos	River)	705		
500	southwest	J. E. Fairlieid	L. Patterson	1937	325	8	
501	do.	do.	F. Turner	1919	315	2	
			1			1	
502	do.	C. W. Chapman	Meyer	1918	364	2 ;	
507	10 milion		Π	1007	400		
505	southwest	uu.	r. lurner	1957	420	Z	1.9
504	18 miles	Sadie Lockridge		1912	400	2	
5	southwest				;		
* 1000	magand af m	11 400	1 7 6 6				

* For record of well 479, see pages 54 and 55.

	W	AGER I	EVEL			1	
Well	1.0	ove (+) c	Date Date	of	Method	Use	Remarks
	ke.	IOW	measur	ement	of	of	
	و الم	end			lift	water	,
	sur	face · ft.).			<u>ب</u> ې ا	<u>୍</u> ର ୬	
467	.d7	.27	June 23	, 1927	T,E	Ind	Combined average daily yield of wells
					1	;	467 to 478 was 3,300,000 gallons in
	1					ا مربحیت	: 1946. Yield 480 gallons a minute.
468	!				T,E	Ind	Screens in sands between 126 and 241
	; 				! 	· · · · · · · · · · · · · · · · · · ·	feet. Yield 550 gallons a minute.
469	<u>a</u> /	29	July 19	, 1927	None	N	Screens in sands between 215 and 610 feet. See log.
470	5	50	Sept.	1945	T,E	Ind	Screen at 199-239 feet. Pumping level
	!		t :		 		108 feet after many hours pumping 315
	1		t t		1 1		gallons a minute on October 4, 1946.
471	5	50	Sept.	1945	T,E	Ind	Screens at 225-235 and 590-620 feet.
			•			ť	Pumping level 150 feet after many
						! !	hours pumping 185 gallons a minute on
472	d/	50	Sept.	1945	T,E	Ind	Screen at 195- Oct. 4, 1946. See log.
	:		* •	1		1	235 feet. Pumpin level 133 feet after
							many hours pumping 230 gallons a min-
473	<u>d:</u> /	50	Sept.	1945	T,E	Ind	Screen at 195- ute on Oct. 4, 1946.
	1		1	i			235 feet. Pumping level 92 feet after
	;		1	: ; ;			many hours pumping 160 gallons a min-
							ute on October 4, 1946. Temperature
474	; <u>a</u> :/	50	Sept.	1945	т,Е	Ind	Screen at 552-592 73° F. See log.
	1		4	1	1		reet. Pumping level 79 feet after
	•		1	1	:		many nours pumping 80 gallons a min-
							, ute on October 4, 1946. Temperature
475	1			1	1		Water level 29 feet on test 785 F.
	4				1		of sand at 113-160 feet; water level
	•		3		1		55 feet on test of sand at 198-250
ARC	<u> </u>				<u> </u>	T., 3	feet when drilled. See log.
470	i 1	~ ~		L I	т,в	Ind	Durning long 184 feet after sure
	:		;	1			Pumping level 134 feet after many
	; }			i	ŧ		nours pumping 515 gallens a minute on
400	27	<u> </u>	Cont	JOGE		Trad	October 4, 1940. Temperature 74 F.
477	<u>e</u>	50	bept.	1940	T,E ;	ina	Screens at 104-144 and 198-238 feet.
			1	į	i		Pumping level 105 feet after many
179					<u>n</u> Tr	Trad	Semeans at 116 149 : October 4 1046
TIU				i	نلولا	-110	and 208-248 foot Dumping lovel 100
			¢ 1	. 1		,	foot often menu bound numping 715
			1	1	!		callong a minute on October 4 1946
				·			gallons a minute on occoper 4, 1940.
500						;	Water from pea gravel at 270-325
							feet.
501	2	15			C,E,	D,S ;	
			i		1		
502					C,W	D,S	
200		· · · · · · · · · · · · · · · · · · ·					
503		L+5	Apr. 13,	1931;	None	N	Formerly supplied school
504	17	9	<u>May 23</u> ,	T838.	<u>C</u> F 1	De	
	_	-			ا تلر ^ي	ן ט, ש	

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-	Records	of werts and springs	s in Brazoria Cou	nty	Uont in	lea	
	1	1			÷	1	Height of
Well	Distance	Owner	Driller	Date	Depth	Diam-	measuring
	from	9 1	1 f	com-	of	eter	point
	Alvin		1	nle-	wall	of	above
		1	4 1	tod	$(\tau + 1)$		around
			1	iteu	(10.)	WELL \	
				: 		(1n.)	(I't.) 🗹
505	18 miles	Ray D. Moyle	L. Fatterson	1931	579		0.0
	southwest		1	1	1	1	·
506	17 miles	J. A. Fite	do.	1912	598	6	1.5
	southwest		;	1			
507	101 miles	Maria Drigon Sudton	Man Warmal	11070	CEEL		
507	10 ² miles	Texas Prison System	i iom worrer	1928	600-	, U,	
	west	Darrington State Far	'm	÷		2	
508	15 miles	Hamilton Estate			511	5	0.0
	west	<u>!</u>	1				
509	do.	do.	·		220	4	0.5
1		1	1	1	_		
510	141 milog	Lougo and Drawn	1 		700+		0 5
010	145 miles	nouse and prown	;		300-	1	2.0
	west		1	· ·			
511	dc.	Judge Tigner			40		
1			1	1			
512	15 miles	Texas Prison System	Tom Worrel	1938	1 371	6	
01~	weat	Domination State For		1000	1,0/1	Δ,	
63.0	West	Darrington State Fai	- <u>m</u>	;		<u>+</u>	
DT9	14 miles	H. L. Trammel	L. Patterson		300 ;	2	1.0
í	west	1	1	1	1		
514	145 miles	Otto Sens Club	do.	: 1925	792	2	1.5
	southwest	1			,	1	
515	do	do.	do	1023	900+	2	0.2
010	u v •		. u c .	1920		~	0.2
		·))	1000	1001		
2T9 ;	d o.	do.	do.	1923	600 +	2	0.4
1			1		1	1	
517	In Rosharon	China Grove School	do.	1936	792	2	
1							
518	12 milca	T A Fito	1	1034	7501		
010	To miles	J. R. LICE		; 1904 ;	350 -	51	
	Southwest						
519	do.	do.		, 1934	350+	4 ;	4.5
1					: 1	1	
520 ;	do.	Crown Petroleum	Bob O'Dav	1945	350+	4	1.0
i	1	Corn.				-	
521	191 milon	T A Fito		1071	750+		
021	Trig miles	J. A. 1108	1	190.	300-	4	1.5
1	southwest		•		1		
522	ll miles	C. Martin	Lavne-Texas Co.	1923	906	26.	0.0
i	west				1	10	
	11000		1	1		TO	
507	10	Dent Deiteket		1077			
020 ;	IU miles	bert Pritchett	Bert Pritchett	1933	30	2	1.5
i	west		:	1	1	1 	
524	9] miles	Frank Prachar	Frank Prachar	1932	27	17	
i	west		1		1	ا ئەر	
525	4 miles	Tsaac Estate	T. W. Kettler	1927	30	4	
	conthreat		T- WA TEAANTOT	1001			
Encl						۱ المستحسم	
ס∠b ;	<pre>∠₂ miles</pre>	Humble Oil and	L. Patterson	1941	666 ¦	4 ;	1.8
1	southwest	Refining Co.		1		1	
527	2 miles	R. L. Colley	R. L. Colley	1925	54	2 :	
1	southwest	-	1	5		1	
528	l÷ miles	W. I. Holler	W. L. Hallor	1916	151	1	
	northwest			1010	TOT	- T 1	
5201				1000			
069	TH ALVIN	GUII States		TASS	128	10	1.5
		Utilities Co.	; ·		1	!	

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County Continued De omio m... aamda 110110 - 4 4

	WATER	LEVEL	1	•	
Well	Above (+) or	Date of	Method	Use	Remarks
	below 🔧	measurement	of	of	
	land	, I	lift	water	• •
	surface	3	<u>b</u> ./	<u>o</u> /	
	(ft:) 5.)	s 1 1- Anno - Anno			
505	ā/ 15	1931	С,Н	D	Screen at 549-579 feet.
506	3.5	Apr. 13, 1931	C.H	· D	Screen at 558-598 feet. Flowed until
000	7.4	May 23, 1939	1 7	1	1930.
507	6/12	1939	C,W	S	Screened bottom 12 feet.
	-		:	i 1	
508	15.4	Apr. 10, 1931	С,Н	D,S	
509	7.6	dC.	· 0,W	5	1
510	17 /	do	C TAT	DS	1 - An
510	1/•4	40.	0,w	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
511			C.H	D.S	
ULL .			, ,	-,-	• • •
512	d/ 19	1938-1939	T,E,	D,S	Screen at 1,331-1,371 feet.
•			10	·	
513;	14.7	Apr. 13, 1931	C,E,	D	
1			2		
514	8.7	Apr. 13, 1931	None	N	
	7.1	July 31, 1946			
515	9,9	May 22, 1939	None	N	
61.0	19.1	July 31, 1946	O TIT		
510	4.0	July 51, 1946	C,W	U	
517	\$/ 14	· · · · · · · · · · · · · · · · · · ·	CE		Screen at 772-792 feet.
	<u>۳</u>		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	
518	17.0	July 31, 1946	None	N	Supplied drilling rig.
1	3		1	1	
519	17.1	dc.	None	N	Do.
1	1				
520	17.0	do.	None	N	Do.
521	24.4	do.	None	N	Do.
522	7 9	App 10 1031		NT 1	Head for nice invication until 1936
022	17.4	May 22 1939	1,-	10	Screens in conds between 361 and 904
1	23.0	July 31, 1946		1	feet. Yield 2 200 gallons a minute
523	5.6	May 22, 1939	C.E	D	when drilled. See log.
1					
524			C,H	D	
					· · · · · · · · · · · · · · · · · · ·
525			C,W	D,S	
500		4			
526	28.9	Aug. 27, 1946	None	N	Supplied drilling rig, R. L. Colley
527				DC	lease. Screen at 631-663 feet. See
061			U,E, j 1	D,5	
528	d/ 10		T D	D. Trt	Screen at 135-151 feet. Vield 25
			-,, 	<u>ال</u> د خد و حد ا	gallons a minute.
529	26.4	Apr. 16, 1931	A	Ind	Formerly furnished part of the Alvin
<u> </u>	, 7	···· -			public supply.

Records	of	welle	and	springs	in	Brazoria	County	 Continued
Records	U1	WETTS	anu	SOLINSS	111	DIGGUIIG	~ Jun o y	 - Oll Olling or

	100010						Height of
Well	Distance from	Owner	Driller	Date com-	Depth of well	Diam- eter	measuring point above
		1 1 1 1		ted	(ft.)	well (in.)	ground (ft.) <u>a</u> /
530	In Alvin	City of Alvin No. 1		1909	750	8	2.0
531	dc.	City of Alvin No. 2	Layne-Texas Co.	1936	722	13, 6	- **
		1		; ; }	1		
532	d o.	Santa Fe Ry. Co.	do.	1945	191	26, 10	
533	2 miles south	Phillips ^P etroleum Co.	Pat O'Day	1945	156	4	
534	$2\frac{1}{4}$ miles southwest	John Savage	John Savage	1928	16	14	
535	4 ¹ / ₂ miles south	G. F. Plummer	L. Patterson	1930	843	2	0.0
536	5] miles scuthwest	Rowan Drilling Co.		1943	485	4	0.0
537	6 miles southwest	Humble Oil and Refining Co.	L. Patterson	1940	473	4	5.7
538	do.	C. and L. Knape	Pat O'Day	1930	1,118	4	2.6
539	do.	C. C. Waits	C. C. Waits	1931	20	1‡	
540	6] miles southwest	W. Russel			600	10	
541	7 miles southwest	Boy Scouts of America	L. Patterson	1936	350+	2	
542	do.	do.	do.	1930	550+ -	2	1.2
543	7 <mark>‡</mark> miles southwest	Pan-American Prod. Co.	do.	1946	998	4	3.6
544	10 miles southwest	W. G. Simpson	American Water Co.	1945	700	18, 12	11.0
545	In Liverpool	H. Clement		1925	26	14	
546	do.	Liverpool School	Brandon	1929	500	2	
547	10 miles south	J. H. Clement	do.	1934	183	2	
548	12 miles south	South Texas Water Co.	Gray Bros.	1938	98	14	
549	ll miles south	John Beckett	John Beckett	1917	30	4	
550	9 miles south	Hans Peterson		1938	65	4	
551	8 miles south	Chccolate Bayou School	E. J. Joseph	1946	220	2	

	VATER	LEVEL	1		
Well	Above (+) or	Date of	Method	Use	Remarks
	below (-)	measurement	of	of	
	land		lift	water	4
	surface		b/	c/	
	(ft.)		2	2	
530	40.6	Apr. 16, 1931	A	P	Yield 100 gallons a minute in 1946
	d/ 65.5	Nov 1939	••	-	1 Partons a mindle in 1940.
		Mev. 1946			1
531	d/ 52 5	Jan 20 1937	ሞፑ	P	Screen in cond at 500 715 fact (m
001		May 1946	-, <u>,</u> ,	-	wolumplied Drewdown 371 feet. Shar
1	<u>u</u> /100.0	May 1540	10		ver-walled, Drawdown 5/2 leet alter
l					being when dealled Carlie
532	d/ 30	Inn 15 1045		DD	Concer at 122 122 ast Drew how 55
002	<u>u</u> / 50	Jan, 10, 1940		лқ	Screen at 120-100 leet, Drawdown 55
1		·	i		leet while pumping 265 gallons a
577	· · · · · · · · · · · · · · · · · · ·		(T) T3		minute When drilled. See log.
000	(;= =	_ T,≞, :	P	Supplies oil field camp. Screen at
EZA			2		132-152 feet. See log.
554			C,H	D,S	
		1 1 1000		D (1	
535	$\frac{d}{20}$	July 1930	С, W	D,S	1 I
	d/ 62	Fall 1945	!]
536	<u>d</u> / 21	Spring 1945	A	D,S	Supplied drilling rigs, Bradbury
; 	· · · · · · · · · · · · · · · · · · ·	 	; +		lease.
537	22.9	July 30, 1946	A	D,S	Supplied drilling rigs, Hubbard
	1		1 1		lease. Screen at 441-473 feet. See
538	+ 8	Apr. 16, 1931	None	N	Flow 4 gallons a minute on log.
1	5.4	May 19, 1939	i		April 16, 1931. Ceased to flow in
	6.8	Aug. 29, 1946	ا است ر معرفين م		1938. Temperature 79° F.
539	!		C, G,	D,S	
		·	27		
540 į			C,W	D	Ceased to flow in 1937.
		: 	: *****		
541			A	Р	Supplies camp and swimming pool at
					Mohawk Cemp.
542	23.0	Aug. 29, 1946	С,Н	D,S	Flowed for several years.
543	24,8	do.	None	N	Supplied drilling rig, Callahan lease.
	1	۱ ان			Casing slotted at 978-998 feet.
544	<u>d/</u> 8	July 1945	Τ, Ο,	Irr	Drilled for rice irrigation. Sanded
	13.8	Aug. 29, 1946	80		up and was used very little in 1946.
545	!		C,H	$\cap \mathfrak{P}$	See log.
					· · · · · · · · · · · · · · · · · · ·
546			C, 11	Р	
		, 	i		
547			C,H	D,S	Mater from sand at 168-183 feet.
	1	:	1		
548		-	C,H	D,S	
1					
549	1		C,W.	S	
	l				
550			T,G	D,Irr	Irrigetes nursery.
1	1	1	12		
551			J,E	Р	Casing perforated bottom 10 feet.
		·	; 		

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Records cf wells and springs in Brazoria County -- Continued

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	1	1		:	1		Height of
Well	Distance	Owner	Driller	Date	Depth	Diam-	measuring
	from	1		com-	of	eter	noint
	Alvin	1	7 9	inle-	well	of	point phone
	, 177 11	1	,]	+od	(f+)		around
	1	4		, usu	(10+)	'(in)	
550	9 milos	Stenolind Oil and	L. Vanmer Long	1045	1 206		
552	: 8 miles	Stanolina Oli and	Henry Lane	1940	: 220	4	0.8
	south	Gas Co.) i		1	•	t J
			1 1 T T T 1	i 1			
553	7 miles	Phillips Fetroleum	L. Patterson	1	600 <u>+</u>	; 4	3.9
	south	<u> </u>	;	1			
554	d o.	dc.	do.	1945	400+	; 4	1.5
			·	;	1	, 	·
555	6춫 miles	do.	do.	1945	700 <u>+</u>	; 4	
	south			1	1 1 1	1	
556	6 miles	do.	do.	1945	700 <u>+</u>	4	4.2
	south		3	1	1	1	1
557	6 g miles	do.	Pat O'Day	1946	96	4	0.0
	scutheast		· .	:	:	: :	; ;
558	6 miles	Pan-American Gas			1001	4	
	southeast	Co.	: 1				
559	dc.	Dr. E.W.K. Andrau	Layne-Texas Co.	;1939	1,185	16,	1.0
				1	1	10	
1			1	:	1		<i>a</i> 1 8
1			• • •	1			
560	4 5 miles	Phillips Petroleum	L. Patterson	1946	745+	4.	2.5
1	south	Co.			-	-	~~ •
561	41 miles	Mustang School	Grav Bros.		60		
	southeast			:			
562	5 miles	Fred Trantow	Frad Trantow	1927	90	21	
	southeast					~2	
563	6 miles	Southern Methodist	A. A. Tourea	1935	25	21	
	southeast	University		1 2000		~2	
564	7± miles	The Taxas Co.	L. Patterson	1945	684	4	
001	southeast			1 1 5 10	. 001	Ŧ	
565	do	do	of	1 1 9/1	640	4	
0000		40.	401	1 1977	010	Ŧ	
566	do.	do.	60	1015	636		2 2
000		40.	u v •	1340		• T	2 • 2
567	14 miles	I. D. Hughes			190	51	0.9
	eoutheset	0. D. Hughes			100	~2	0.2
568	do	4.5	A Magazad	1010	100		0.0
000	40.	d0.	H. Inchang	1919	192	3	0.2
560		Humble Oil and	T Dottorioo	1047	567		
309		Defining Co	Le Petterson	1940	557	4	~-
570	17 mil67	Rei Ining CO.	Ten D. Humber	1070			······································
5,01	TI MITCS	ane n. nufues	Jue D. nugues	1928	75	2	
571	16 milos	Humble Oil and	T Detterrer	1040		<u>!</u>	
	TO HITTAS	Dofining Co	L. Patterson	: 1942	972	4	
579	161 miles			1			
576	TOE WITGE	The Texas CO.		1926	1,387		
XEPP	Soucheast	A				, 	
010	17g miles	Amarada Petroleum			584	8	
1	soutneast	<u> </u>			1	;	

* For records of wells 574 and 575, see pages 54 and 55.

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	WATER	LEVEL	· · · · · · · · · · · · · · · · · · ·		
Well	Above (+) or	Date of	Method	Use	Remarks
	below	measurement	of	of	
	land	1	lift	water	1
1	șurface	9 6	b./	<u>o</u> /	
	(ft.)	 	! 	 	
552	8-0	July 19, 1946	None	N	Wells 552 to 556 supplied drilling
	1			•	rigs, Houston Farms Dev. Co. B lease.
	0.7.1				Casing perforated at 201-226 feet.
553	23.1	July 25, 1946	None	N	
554	24.8	do.	None	N	Houston Farms Dev. Co. A lease.
	~+•0		NONC		
555		- 	A	Ind	Bernard lease. Yield 100 gallons a
	,	1 · · · · · · · · · · · · · · · · · · ·	,		minute.
556	21.7	July 25, 1946	None	N	Smiley lease.
			1		-
557	ã/ 2	Mar. 1946	J,E	D,S,	
			e 1	Ind	
558			C,E	D,S,	
				Ind	
559 _. ;	d / 13	May 16, 1939	None	N	Used for rice irrigation until 1942.
1	46.3	Aug. 28, 1946			Screens in sands between 344 and 906
1				1	feet. Drawdown 110 feet after pumpin
500		7 7 05 7044			980 gallons a minute for 24 hours whe
560	76+X	July 25, 1946	None	N	Supplied drilling drilled. See 10
561			Сн	P	rig, Arm lease.
			0,11	Г ;	
562			C.H	S	
1		·	,		
563			C,E,G	D,S	
	1 ; ;				
5 64	<u>q</u> /78	May 1945	J,E,	D,S	Supplies water for oil field camp.
			1		Screen at 659-684 feet. See log.
565 j	@ / 51	May 1945	A	Ind	Supplied drilling rig, Wieting lease.
FEE	A / 55	A	Non	NT I	
000	4/00	Apr. 1940	None	IN	
567	6 9	Mon 1 1020	CIAT	<u>,</u>	
007	0.5	May 1, 1505	0,₩		
568	3.0	do.	C.W	D.S	
			-,	-,-	
569	1		T.E	D. Ind	Supplies water for oil field camp.
			1		Screen at 532-557 feet. See log.
570			C,W	S	
1					
571	d / 32	June 9, 1942	None	N	Supplied drilling rig, Houston Farms
	·····		i	1	Dev. Co. lease. Screen at 950-972 fee
572			1		Core test on Sweet lease. See log
				i	See log.
573	+ ;	May 1, 1939	Flows		Flow 6 gallons a minute on May 1,
	1				

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Weill Distance from Pearland Owner Driller Date (weil (t) Depth of eter (t) Dist of eter (t) Dist of e					1	1	:	Height of
from Fearland con- pla- (Wells east of the Brazod Rivar) of ted (ft.) bowe ground (ft.) 600 8 miles Ray Fogle 50 2 601 5 miles R. O. Wood Fets Rogers 1931 87 3 west 80 2 603 5 miles Frank Doherty do. 1931 54 2 603 4 miles John Doherty do. 1931 54 2 604 do. do. do. 1924 2bt 2 605 do. C. W. kassey 100 6 605 do. C. W. kassey 2001 4 2.5 607 4 miles Midstates Oil 2001 4 2.5 604 do. C. W. kassey 201 2	Well	Distance	Owner	Driller	Date	Depth	Diam-	measuring
Fearland plo- ted (Wells east of the Ergzod River) plo- (ft.) well (ft.) above ground (in.) 600 8 miles Ray Fogle 50 2 601 5 miles R. 0. Wood Fete Rogers 1931 67 3 602 3g miles Frank Doherty do. 80 2 603 3g miles John Doherty do. 1931 54 2 603 3g miles John Doherty do. 1931 54 2 604 do. do. do. 1931 54 2 604 do. do. do. 1924 255 2 604 do. C. W. Massey 100 6 605 4g miles Midstates 011 2001 4 2.5 604 4g miles C. W. Massey </td <td></td> <td>from</td> <td>1</td> <td></td> <td>com-</td> <td>of</td> <td>eter</td> <td>point</td>		from	1		com-	of	eter	point
ted (ft.) 'vell, ground (Wells east of the Brazod River) 600 B miles Hay Fogle 50 2 west		Fearland	1 •	1	ple-	well	of	above
(Wells east of the Brazod Rivor) (in.) (it.) 2/ 600 B miles Rey Fogle 50 2 801 5 miles R. O. Wool Pete Rogers 1931 37 3 801 5 miles Frank Doherty do. 80 2 602 32 miles Jehn Doherty do. 1931 54 2 603 30. do. do. 1931 54 2 604 do. do. do. 1931 54 2 605 do. C. W. Massey 100 6 605 do. C. W. Massey 2002 4 2.5 604 fmles Midstates 0i1 2002 4 2.5 604 fmles The Texas Co. L. Fatterson 1934 632 7 5.6 </td <td></td> <td>1</td> <td></td> <td></td> <td>ted</td> <td>(ft.)</td> <td>well</td> <td>ground</td>		1			ted	(ft.)	well	ground
600 8 miles Ray Fogle 50 2 801 5 miles R. 0. Wood Pete Rogers 1931 87 3 802 5 miles Frank Doherty do 80 2 603 3f miles John Doherty do 1931 54 2 603 do do do 1931 54 2 604 do do do 1931 54 2 604 do do do 1931 54 2 605 do C. W. Massey 1000 6 605 do C. W. Massey 2001 4 2.5 607 southwest Corp. Corp. 1934 632 7 5.8 southwest C. W. Massey 20 2 611 2 miles T. P. Wahaney <td></td> <td>1 1</td> <td>(Wells east</td> <td>of the Brazos Riv</td> <td>er)</td> <td></td> <td>(in.)</td> <td>(ft.) a/</td>		1 1	(Wells east	of the Brazos Riv	er)		(in.)	(ft.) a/
west R. O. Wood Pete Rogers 1931 87 3 602 35 miles Frank Doherty do. 80 2 603 35 miles John Doherty do. 1931 54 2 603 35 miles John Doherty do. 1931 54 2 603 do. do. do. 1921 25± 2 604 do. do. do. 1924 25± 2 605 do. C. W. Massey 100 6 606 4 miles Midstates 011 200± 4 2.5 southwest Corp. Corp. Corp. 20± 30± 30± 30± 30± 30± 20± 30±	600	8 miles	Ray Fogle			50	.2	1 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4
601 5 miles R. O. Wood Pete Rogers 1931 87 3 west		wəst			1	1	:	1
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southeast 6	621	4 miles	Conil Proven	Lowno Tomos Co	1071	ECO.		
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Well	ibove (+) or	Date of	Method	Use	Remarks
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	land		lift	water	
	surface		h/	t/	
	(ft;)		. <i></i>	-	
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607	7.8	July 19, 1946	. 0,₩	D,S,	Supplies oil lield camp on r. mart
608	102.3	do	None	N	Supplied drilling rig Morrison lease.
000	102.0	u u.	None	11	Screen at 564-632 feet. Yield was 150
609			C.H	D.S	gallons a minute. See log.
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610	مىنى بىرى بىرى بىرى بىرى بىرى بىرى بىرى ب		C,H	D,S	
611			C,H	D	
		15 1046		7	
61% j	82.6	NOV. 15, 1946	т,с	lrr	Used for rice irrigation. Casing per-
					iorated opposite all sands between 550
i			1		and 1,500 feet. Graver-walled. Draw-
i					down 32 feet after pumping about 1,200
613	17 5	Ann 16 1071		DD	Barianated as Progenia County well 10
OTO 1	47.J	Apr. 10, 1931 Apr. 11, 1036	10,07,	nn	besignated as Brazorra County were to
1	07 5	Apr. 11, 1930	τυ	•	in Goological Survey water level re-
614	57.0	May 30, 1940	<u> </u>	D	ports. Screen at 477-507 leet. See
OT# (U,E, 1 3	D	<u></u>
615			C.H	D.S	
				, ,	
616	12.7	May 24, 1939	C,W	D	
· · · · · ·	9.4	June 25, 1946			
617	10 ag		A,G	D	
		1			
618 j			т,С	D	11eld 75 gallons a minute.
610	15.3	Feb. 16 1030		S Inn	Screen at 119,130 foot Viold about
1010	10.0	100• 10, 1303	، ت و ±	•••••	250 gellons a minute.
620	d/ 55	May 1946	J.E.	D.S	Screen at 332-352 feet.
			1	_,~	
621	d/40	Dec. 29, 1931	T,E,	D,S,	Screens in sands between 446 and 560
			20	Irr	feet. Yield 558 gallens a minute when
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Records of wells and springs in Brazoria County -- Continued

	i	1	1	2	1	!	Height of
Well	Distance	Owner ,	Drillər	Date	Depth	Diam-	measuring
	from	•	t 1	com-	of	etar	point
	Pearland	2 1	‡ \$	ple-	wcll	of	above
				ited	(ft.)	well	ground
	*	1	1	1		(in.)	$(ft_{a}) = \frac{1}{2}$
622	13 milos	Humble Oil and	T. Petterson	1936	495		3.0
022	44 miles	Refining Co		11000	1 10	1 -	
<u> </u>	soucheast	Stepolind Oil and	, <u>}</u>	1036	501		; ; 19
020	4 miles			1930	091	o,	1 1.6
	southeast	Gas CO.	1 T D h h h m m	1000	510	0	1 Y
624	45 miles	Humble 011 and	L. Patterson	1936	510	, 6	
	southeast	Refining Co.		-	1	 	
625	55 miles	Stanolind Oil and		, 1936	417	8,	0.7
	southeast	Ges Co.		:	! 	6	
626	do.	do.		1936	383	6	0.0
	\$ }			1	1	, ;	2 1
627	6 miles	do.		1936	610	8,	0.0
	southeast			1	t 1	6	1
628	5 miləs	do.	Layne-Texas Co.	1945	538	10,	2.7
	scutheast			1	1	4	1 1 1
629	do.	do.		1936	591	8.	
) 1	1	1	6	2 1
630	do.	Humble Oil and	L. Patterson	1935	410	4	1.7
		Refining Co.			,		
631	6 mileg	Frank Cisco	, 		20	5	
	south						
632	7 milor	F A Coodogko		, 	30	, , <u>, , , , , , , , , , , , , , , , , ,</u>	· · · · · · · · · · · · · · · · · · ·
002	7 miles	r. A. Goedacka				-4	
677	Southwest :	A Unormore			10		
000	15 miles	H. nuepper			10	14	
- CR 1	SOUTHWEST			1000		<u></u>	,
03.11	ao.	A. J. HICKS	MCCOILEY	1920	90		
	1		······				i
635	۵0.	L. U. Callinan	Loran Davis		62		
		<u> </u>				1	
636	7 miles	d 0 .	do.		35	¦ 1‡	
	southwest						
637	6호 miles	Mrs. C. Marasckin		1932	52	1	
	southwest						
633 ;	7 miles	Joe Corce			54	1歳	
	southwest			1			
639;	6 miles	Gulf Oil Corp.	- -	1936	480	6	2.3
1	southwest			1			
640	do.	The Texas Co.	aa ++	1936	1,229	10	
	1			1			
641	do.	du.	L. Patterson	1935	776	7.	
1	;					5	
1	1 1	1				_	
:	:	1			1	1	
642	5± miles !	C. Matali			60	2	
	soutiwest					~	
643	do.	The Texas Co.	L. Patterson	1932	300+	6	5.0
1		No. 1	The reconstruction				U • 5'
644	do, ,	The Texas Co.	dc.	1033	10/	0	1 5
		No. 2		1000	1.0-1	J 1	T•O
645	do.	The Teres Co.	d c.	1027	105	0	5 0
	1	No. 3		1307	T20	0,	0.0
; 1	1		1		1	D ;	
:		i			1		

			•	- 51 -	
Well	WATER Above (+) or below lant	LEVEL Date of measurement	Method of lift	Use of water	Remarks
	(ft.)		، <u>ق</u> ر	<u> </u>	
622	89.9	July 1, 1946	None	N	Wells 622 to 630 supplied drilling rigs. C. Brown A lease. Screen at
623	er 94.0	June 21, 1946	None	N	Thornton lease. 452-482 feet. See lo Has 67 feet of screen.
624			T,E	D, Ind	Ford lease. Screen at 468-511 feet. Supplies oil field camp. See log.
625	67.2	June 21, 1946	None	N	Miller lease. Has 67 feet of screen
626	20.8	do.	None	N	Surface lease. Screen at 343-383 feet.
627	94.5	do.	None	N	Barrett lease. Has 60 feet of scree
628	93.1	do.	T,E, 30	D,Ind	Randall lease. Screen in sands bet- ween 472 and 538 feet. Yield 300
629			T,E	D,Ind	Drake gallons a minute. See log lease. Screen at 524-591 feet. Sup-
630	d/20 65•4	Aug. 27, 1935 July 1, 1946	None	N	Cannan lease. plies oil field camp. Screen at 341-371 feet. See log.
• 631			С,Н	D,S	
632	,		С,Н	D	
633	~~		C,H	D,S	
634	d/ 8		C,H,W	D	
635			С,Н	D,S	Screen at 58-62 feet.
636			С,Н	D,S	алити столковани протити административни со допуску и допуску на разлики на одноми со ток со соло на начина сол 1 1 1 1 1
637			C,W	D,S	
638			C,W	.D,S	
639	58,5	July 19, 1946	C,G, 20	D,S, Ind	Supplied drilling rigs, Colby lease. Screen at 440-480 feet.
640			T,E	D,S, Ind	Oil test on Belcher B lease converte for water in 1940. Gun perforated a
641			None	N	Supplied 980-1.000 feet. See 10 drilling rigs, Belcher B lease. Firs screened at 207-233 feet, then deep- eved and screen at 754-776 feet. Se
642			C,H	D,S	
643	3.6	July 18, 1946	None	N	Wells 643 to 643 supplied drilling ries. Belcher A losse
544	12.3	do.	None	N	Screen at 172-194 foet. Yield 250
645	10.2	do.	None	N	Screen at 159-195 feet. Yield 104 200 gallons a minute when drilled.

Height of

	from) f	1	com-	OI	eter	point
	Fearland	1	1	ple-	well	of	abeve
	2	1 1		ted	;(ft.)	well	ground
	1		1 1	1	1	(in.)	(ft.) <u>a</u> /
646	5 1 miles	The Texas Co.	L. Patterson	; 1943	618	6	
	southwest	No. 4	1	1	1	1	
647	6 miles	The Texas Pipe	do.	1944	812	4	
1	southwest	Line Co.			1		
648	6 1 miles	Victor Del Bello	Loran Davis		50	12	·
	scuthwest	1	1	1	, 1 1		
649	75 miles	J. W. Lewis			27	2	
	southwest		1	1	1		5
650	do.	Manvel School	Fat O'Day	1937	165	4	
-		-		1	1		
651	In Manvel	M. Pavlovich			65		
		a 1 2	1	: 1	1	1 1	
652	9 miles	M. H. Peters	M. H. Peters	1934	36	11	
	southwest	1		1	1		
*653	10 miles	Donald Ford	Pete Rogers	1938	60		
	southwest			3	1	1	1
1.36							

a/ Measuring point is usually above ground at top of casing, pump base, pipe clamp or well curb. If below ground the figures are preceded by a minus (-) sign. b/ T, turbine; C, cylinder; J, jet type; A, air or gas lift; E, electric; G,

gascline or diesel; W, windmill; H, hand. Number indicates horsepower.

For records of wells 654 and 655, see pages 54 and 55. *

Distance

Well

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	WATER	LEVEL		1	
Well	Above (+) or	Date of	Meth o d	Use	Remarks
	below	measurement	of	of	
	land.	1	lift	water	
;	şurfaço∙		<u>b</u> /	6/	
	(ft;)			1	
646	· ···		А	Ind	Screen at 594-618 feet. Yield 200
	1				gallons a minute when drilled. See
647	,		А	D,Ind	Screen at 766-812 feet. log.
	:	1		۱ ۱	See log.
648			C,H,W	D,S	
	i	t		1	
649			C,H	D,S	
		1		۱ ایر ایر ایر ایر ایر ایر ایر ایر ایر ایر	
650			C,E,	P	Screen at 145-165 feet.
	4 ? 		2	, 1 	
651			C,G	D,S	
-		L		1	
652		!	C,W	D,S	
469	, ; ;	,	0.117		
653	i	f	C,W	. D	
-	<u>!</u>			!	

ind, industrial; F, public supply; RR, railroad; D, domestic; S, stock; Irr, irrigation; N, not used.

d/ Water level reported by owner or driller.

Records of wells and springs in Brazoria County -- Continued

Well	Location	Owner	Date com- ple- ted	Depth of well (ft.)
64	12 miles northwest of West Cclumbia	General Crude Oil Cc., Wisdom No. 1	1943	4,845+
65	8 miles west of West Cclumbia	Humble Oil and Refining Co., M. M. McFarland No. 1	1946	6,910±
164	4 miles scuth of Brazoria	Grabowski and Capps, D. I. Lowe No. 1	1941	1,018 <u>+</u>
359	8 miles northeast of Velasco	Sterling Oil and Refining Co., Shank No. 1	1941	2,790 <u>+</u>
479	10 miles northeast of Angleton	Humble Oil and Refining Co., Moller No. 1	1936	3,000 <u>+</u>
574	8 miles southeast cf Alvin	McCarthy Drilling Co., Houston Farms Development Co. No. 2	1939	3,498
575	13 miles southeast of Alvin	Strake Petroleum Co., Inc., Griffith No. 1	1940	2,375+
654	5 miles scutheast cf Pearland	Stanolind Oil and Gas Co., Drake No. 7	1936	1,784+
655	9 miles southwest of Pearland	J. W. Frazier Drilling Co., J. C. Thompson et.al,No.1	1945	6,054

Wall	Demembra
MOTT	itemat ks
64	0il test. Electrical log from 32 to 4,845 feet indicates fresh water in
I	sands from 70 to 160, and 770 to 805 feet, and brackish water in sands
	from 620 to 730 and 805 to 1,175 feet. Salty water in sands below 1,175
65	Oil test. Electrical log from 38 to 6,910 feet indicates fresh feet.
1	water in sands between 38 and 150 feet; brackish water in sands from 304 to
	340, 410 to 470, 600 to 700 and 740 to 830 feet. Salty water in sands below
164	Ull test. Electrical log from 85 to 1,018 feet indicates fresh 530 feet.
	water in sands from 98 to 107, 150 to 168, and 516 to 556 feet, and brackish
350	Oil test. Electrical log from 28 to 2 790 feet indicates fresh water in
005	sands from 280 to 308 feet brackish water in sand from 110 to 130 feet.
479	Oil test. Electrical log from Salty water in sands below 308 feet.
	143 to 3.000 feet indicates fresh water in sands from 250 to 300, 420 to
1	490, 590 to 630 feet; slightly brackish to brackish water in sands from 900
1	to 990 feet; salty water in sands below 990 feet.
574	Oil test. Electrical log from 47 to 3,498 feet indicates fresh water in
	sands from 105 to 125, 140 to 187, 390 to 405, 480 to 525, 605 to 618, and
	670 tc 825 feet; brackish water in sands from 1,035 to 1,075, 1,139 to 1,152
	and 1,180 to 1,217 feet. Salty water in sands below 1,217 feet.
575	Ull test. Electrical log from 73 to 2,373 feet indicates fresh water in
1	to salty water in sands from 840 to 1 106 foot and galty water in sands
654	Oil test. Electrical log from 107 to 1 784 feet the below 1 106 feet
001	indicates fresh water in sands from 240 to 255 335 to 365 385 to 405 and
1	495 to 775 feet: brackish water in sands and sand zones from 780 to 806.
a i	825 to 870, 1,005 to 1,140 feet: and brackish to salty water in sands below
655	Oil test. Electrical log from 603 to 6,054 feet indicates 1,142 feet.
i	fresh water in sands from 785 to 860, 885 to 910, 950 to 1,030, 1,130 to
i	1,210 and 1,270 to 1,328 feet; slightly brackish to brackish water in sands
	from 1,334 to 1,480, 1,565 to 1,620, 1,670 to 1,720 and 1,745 to 1,780 feet.
	Salty water in sands below 1,780 feet.

Table of drillers' logs, Brazoria County, Texas

	Thickness (feet)	Depth	T .	hicknes (feet)	s Depth (feet)		
Well 1, partial lo			Well 1, partial log == continued				
L. and M. Production Co. N	 5. 3. on	Mrs.	Gumbo	22	1020		
Belle Wisdom lease, 12 [±] mi	les north	west of	Water sand	4	1024		
West Columbia.			Hard sand	E I	1030		
			Gumbo	24	1054		
Surface soil	6	6	Water sand	3	1057		
Clay	34	40	Sandy lime and shale	29	1086		
Sand	20	60	Gummy lime	30	1116		
Clav	5	65	Hard sand	8	1124		
Stiff clay	50	115	Fine sand	31	1155		
Sandy clay	30	145	Gumbo	3	1158		
Gumbo	80	225	Hard sand	2	1160		
Sand and houlders	30	255	Gumbo and lime	58	1218		
Gumbo	35	290	Sand	2	1999		
Sand and houlders	20	310	Gumbo lime and boulders	43	1265		
Gurbo	30	340	Sandy lime mok	1	1266		
Sand and houldars	20	360	Dark shale	6	1272		
Gumbo	35	395	Dark lime rock		1276		
Sand and houlders	20	415	Lime rock	5	1281		
Gumbo	50	465	Hard shale	z , 1	1284		
Sand shale and houlders	40	505	Sticky shale and lime	7	1204		
Cumbo	15	520	Sand and shale	12	1222		
	63	583	Sandy shale	τω Λ	1337		
Tough blue gumbo	42	625	Shale and lime	3	1340		
Cumbo and lime	70	697	Sand and shale	3	1343		
Broken rook	2	699	Sticky mumbo and lime nodul	es 7	1350		
Water sand	72	771	Sticky blue sumbo and lime	15	1365		
Cumbo	8	770	Gumbo sand and lime	10	1375		
	5	784	Tough blue gumbo	12	1387		
Tino cond	30	814	Tough blue gumbo and lime	10	1001		
Fine sand	<u>л</u>	818	streaks	18	1405		
naro sano	<u>ד</u> זיז	835	Gumbo sand and lime	22	1427		
Fine sand	1 I Z	979	Tough blue sumbo and lime	~~ ~	1 10 1		
Sand FOCK	25	967	nodules	48	1475		
Hand conduct lime rook	20	865	Shale and lime	2	1477		
naro sandy line rock.	10	894	Crustallized lime and cond	8	1485		
Broken Sandy Time Pock	10 1	001	Crustallized lime rock	69	1554		
Gumoo	50	075	Sticky blue mucho and lime		1004		
Blue gumbo	50	935	streeks	16	1570		
	ט פר	052	Flabr shale strite and	TO	1010		
water sand	14 רו	9067	limo	25	1505		
Sandy lime rock	11 7 E	070		20	2020		
	0 T0	910	TOTUT DEFIT	i	6140		
Gray LIMS FOCK	4 9	000					
	۵ ٦ د	306					
water sana	τo	990	I				

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Table of drillers' logs, Brazoria County -- Continued

	Thicknes (feet)	s Depth (feet)		Thickness (feet)	Depth (feet)
	Well 5		Well	31	
Sinclair Refini west of West Co	ng Co., lO l miles n lumbia.	orth-	Humble Oil and Refinin and Woodson lease, 9 mi	g Co., on Wil iles northwe	lliams st of
Grass roots	4	4	West Columbia.		
Red clav	13	17	Surface material	24	24
Red sand	16	33	Sand	19	43
Chalk	46	79	Shale	14	57
Sand rock	4	83	Sand	22	79
White packsend .	9	92	Shalə	24	103
Water sand	10	102	Sand	50	153
	——————————————————————————————————————		Shale	58	211
		~~~~~	Sand	36	247
	Well 18		Shale	82	329
			Sand	22	351
Humble Ofl and	Refining Co., on L.	Τ.	Shale	42	393
Lambert lease	11 miles northwest	of West	Sand	8	401
Columbia	TT WITCH WOLDER		Shale	92	493
COTUMDIA .			Sand	21	514
Surface	24	24	Shale	60	574
Sand	17	41	Sand	44	618
Sanu	24	65			- - - ,
Sond	67	132			
Sholo	26	158	Well	47	
Cond and chole	בי דו	169			
Shalo	138	307	The Texas Co., on W. H	Abrams lea	se. 2
Simile .	18	325	miles northwest of Wes	t Columbia.	
Sano		122			
Snale Gaud and shele	50	128	Sand	17	17
Sand and Shale		444	Sand and clay	69	86
Snale	20 '	177	Clay	20	106
Sano	25	410	Sand	3	109
			Gumbo	39	148
	Woll 20		Sand	8	156
	WEIT 29		Gumbo	144	300
Thumble Ofl and	Defining Co. on Mc	Forland	Water sand	23	323
Humble Oll and	Refining CO., on Mc	clumbio.	Gimbo	19	342
lease, 8 miles	northwest of West C	o rumo ra,	Fine-grained sand	16	358
0 0	26	26	Gimbo	52	410
Surface	20	20	Fine-grained sand	23	438
Sand	12	41 60	Gumbo	59	492
Sand and shale	2.C. C.A.	199	Sand	22	514
Sand	04 120	26E	Gumbo	17	531
Snale	102	200	Water sand	44	575
Shale and sand	22	207	Gumbo	2	577
Shale	22	309	Gunio		V 11
Sand	22	100			
Shale	77	408			
Sand	44	402			
					•

Thi	ckness	Depth	1	hickness	Depth
(1	eec)	(reet)		(feet)	(feet)
Well 49			Well 51 conti	nued	
The Texas Co., on W. C. Hogg	lease,	14	Blue shale	38	358
miles northwest of West Colum	DIA .		POCK	1	359
Surface soil	25	25	Sand		360
Shale	36	61	Soni	20	500
Sand	8	69	Weter-ber wing rook	120	500
Shale	25	94	Mater-bearing fock	1	500
Sand	28	122			
Shale	94	216			
Sand	77	293	1911 ()4	-	
Shale	32	325	City of mest Columbia No.] in Ma	
Sand	28	353	Columbia	٩٧٠ ١١٠ و٠	50
Shale	12	365			
Sand	16	381	Soil	ъ ;	٦
Shale	9	390	Ped clev	6	7
Sand	12	402	Red and brown sand	43	50
Shale	24	426	Gray sand	10	60
Sand	17	443	Clay streaks of sand	16	76
Shale	37	480	Coarse-grained sand and		10
Sand	44	524	fine gravel	45	121
	•	_	Streeks clay and sand	22	143
			Clay	24	167
Well 51			Sand	10	177
			Clay, streaks of sand	12	189
Equitable Mining Co in West	Colum	bia,	Clay, sand breaks	133	322
			Rock	1	323
White clay	2	2	Clay	9	332
Red clay	8	10	Sand	20	352
Gray sand	15	25	Sand, shale breaks	34 ¹	356
White clay	1 ;	26	Fine-grained sand, shale		a. (1)
Quicksand	24	50	streaks	74	460
Yellow clay	10	6Q	Blue shale	21	481
Quicksand	1 ;	61	Sandy shale	13	494
Gray sand	23	84	Fine-grained white sand	22	516
Lignite	6	90	Shale	18	534
White clay	15	105	Sand with shale streaks	6	540
Soapstone	15 ¦	120	Coarse-grained sand ,	8	548
Blue shale	14	134	Shale	23	571
Blue clay	18 į	152	Sand and shale breaks	40	611
Rock	4	156	Shale	13	624
Blue sand, clay, and streaks			Sand (good)	25	649
of rock	112	268	Tough shale	10	659
Rock	1	269		<u></u>	
Sand	1	270			
Blue clay	18	288			
Hard rook	7	295			
Blue clay	19	314			
Quicksand	В I	320			

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	Thicknes (feet)	S Depth		Thicknes (feet)	s Depth (feet)
Well	55		Well 200	Cogtinued	
City of West Columbia N	Io. 2 in	West	liburgh clart	24	483
Columbia.		11000	3 nd	4	490
			7.av	2	492
Surface material	•)] •	27	3r nd	11	503
Shale	31	64	1: ugh clay	28	531
Sand	€ .€	150	3e nd	5	536
Shale	.30	170	Jlay	4	540
Sand	10	180	Sant	5	545
Shale	7.46	326	Jlay	34	579
Sand	30	356	land	15	594
Sand and shale	9	365	Clav	27	621
Shale	25	390	Sandy (lay	25	646
Sandy shale	27	417	S.ind	25	671
Sand	5	422	Clav	4	675
Sandy shale	9	431	Se.nd	30	705
Sand	16	447	Clev	24	732
Shale	48	495	Sand	7	739
Sand	35	525	10197	S	748
Shale	8	533	Saind	13	761
Sand	15	548	Cleav	13	774
Shale	3	551			
Sand	5	556			
Shale	19 !	575	Well	101	
Sand	40	615			
	: 		Doftonse Plant (orp. t	est 2, 11	miles
Well 1	00		west; of Brazoria,		
			Surft ce clay	14	14
Defense Plant Corp. tes	t 1, 11 m	iles	Sand	17	31
west of Brazoria.			Clay	4	35
	•		Sand and thin layers	of ;	
Surface clay	11	11	oltay	19	54
Good sand and thin laye	rs		Clay	12	66
of clay	49	60	Sandy, clay	11	7,7
Soft clay	17	77	Clay	11	88
Good sand	20	97	Sand and clay layers	22	110
Clay	5	102	Clean sand	9	119
Good sand	54	156	Clet	2 ;	121
Clay	41	197	(,1e 1 coarse-grained	sand 35	156
Coarse-grained sand	8	205	Clar	5	161
Sandy clay	52	257		;	
Broken sand	19	276			
Clay	10	286	Well	102	
Sand	33 ¦	319			
Clay	23	342	Defenses Plant Corp. N	10。3,10麦	mileg
Sandy clay '	6	348	west o. S Brazoria,		
Fine-grained sand	10	358		;	
Clay	15	373	Surfact; material	11	. N
Sand	4	377	Sand	61	7Ż
Clay	63	440	Shale	24	96
Sand	19	459	Sand	68	164

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	The law	Denth			
	(feet) (feet)		Thicknes	ss Depth
	(1000)	(1000)		(1000)	(IGet)
Well	103		Well	106	
Defense Plant Corp. No. of Brazoria.	1, 11 1	niles west	Defense Plant Corp. No of Brazoria.	. 4, 11 mi	lles west
Black surface soil Red clay Sand Few streaks sand - red clay and layers Red clay Sand Coarse-grained sand Tough clay	4 8 15 41 24 45 18 4	4 12 27 68 92 137 155 159	Surface material Sand Shale Sand <u>Well</u> J. S. Abercrombie Co., lease, 10 miles west o	12 58 28 71 107 on Larsen of Brazoris	12 70 93 169 n-Edling
Well 1 Defense Plant Corp. No. of Brazoria.	04 5, 11 r	niles west	Surface soil Surface clay Surface sand Shale Sand	3 9 58 42 28	3 12 70 112 140
Surface material Sand Shale Sand Shale Sand Shale Sand Shale Sand Shale Sand Shale Sand Shale Sand	12 28 55 75 21 16 43 28 50 75 39 16 30 15 59	$ \begin{array}{r} 12 \\ 40 \\ 95 \\ 170 \\ 291 \\ 307 \\ 350 \\ 378 \\ 428 \\ 503 \\ 542 \\ 558 \\ 588 \\ 603 \\ 662 \\ \end{array} $	Well J. S. Abercrombie Co., ll miles west of Brazo Surface dirt Clay Surface sand Shale Sand Shale Sand and sandstone roc	109 on Armstr oria. 2 5 33 19 21 17 21 17 21 21 21 21 21 21 21	rong Lake, 2 7 40 59 80 97 158
Sand Shale Sand Shale	21 2 30	683 685 715 -	Well J. S. Abercrombie Co., 11 miles west of Brazo	<u>110</u> , on Armst oria.	rong Lake,
Well 1 Defense Plant Corp. No. of Brazoria. Surface material Sand Shale Sand Shale	05 2, 11 m 12 62 21 69 2	niles west 12 74 95 164 166	Dirt Surface clay Surface sand Blue clay Sandy shale Sand	2 8 23 22 50 51	2 10 33 55 105 156

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	Thickne	ss Depth		Thickne	ss Depth
	(feet)	(feet)		(feet)	(feet)
	Well, 111		Well 11	7:	ed
J. S. Abercrombie	Co., on Armst	rong Lake,	Surface soil	4	4
ll miles west of B	razoria.		Surface clay	16	20
-		•	Surface sand	4	24
Surface soil	14	14	Shale	32	; 56
Sand Sand and shale str	32 eaks 57		Sand and gravel	44	100
Sand		100	We	11 118	
	Well 112		J. S. Abercrombie Co	o on Muell	er-Moline
	and the second secon		lease, 112 miles son	thwest of F	Brazoria.
J. S. Abercrombie	Co., on Armst	rong Lake,			1
ll miles west of B	razoria.	, i i i i i i i i i i i i i i i i i i i	Clay	73	73
			Sand and gravel	62	135
Surface soil	14	14			
Sand	32	46			
Sand and shale str Sand	eaks 57 53	103 156	Well 119, pa	rtial log	
Quila	•••		Transcontinental Oi	1 Co., 10 3 т	iles west
	<u> </u>		of Brazoria.		
	Well 113				
			Sand	133	133
J. S. Abercrombie	Co., on Armst	rong Lake,	Clay	46	179
10호 miles west of	Brazoria.		Water sand	132	311
		i	Gumbo	8	319
Surface	10	10	Sand	15	334
Sand	50	60	Gumbo	35	369
Sha le	20	80	Gravel	15	384
Sandy shale	10	90	Red clay	148	532
Sand	50	140	Packed sand	33	565
Shale	13	153	Gumbo	169	734
Sand	27	180	Sand	20	754
· · · · · · · · · · · · · · · · · · ·		:	Gumbo	40	794
ан 2 — 1 2			Packed sand	80	874
2 v	Well 116		Gumbo	96	970
	7 - 17 - 47		racked sand	60	1030
J. S. Abercrombie	co., if miles	West OI	Soft gumbo	40	1 1000
Brazoria.			Challe	220	1290
0 0 11	10		Chalk	6U 70	1300
Surface soil	10	10		30	1400
Shale Gaud	21	26	broken 11me	40	1420
band and shale	۵۵ م	44 66	Broken lime	10 95	1520
Sand and Shale	6.6 F.A	120	Gumbo	15	1535
Cond Dila Ta	04 94	144	Broken lime	10	1545
Danu	61	7.1.1	Sandy lime	10	1555
,			Gumbo	38	1593
	Well 117		Sand and boulders	20	1613
			Chalky lime	40	1653
J. S. Abercrombie	Co. on P. J.	Reeves	Gumbo	52	1705
lease, 13 miles we	st of Brazori	a.	Sand and boulders	20	1725
		-	(Contin	ued on next	page)

25 1 70 20 9 11 24 5 31 125 24 44 34 30 50 24 50	1750 1751 1921 1841 1850 1861 1885 1890 1921 2046 2070 2114 2148 2178 2228	The Texas Co., miles west of Surface sand an Sand Shale Sand Shale Sand	Well on H. L. Brazoria. nd clay Well 1	125 Walker 1 24 44 66 16 296 27	lease, 7 24 68 134 150 446 473
$25 \\ 1 \\ 70 \\ 20 \\ 9 \\ 11 \\ 24 \\ 5 \\ 31 \\ 125 \\ 24 \\ 44 \\ 34 \\ 30 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 24 \\ 50 \\ 20 \\ 20 \\ 20 \\ 20 \\ 20 \\ 20 \\ 20$	1750 1751 1921 1841 1850 1861 1885 1890 1921 204¢ 2970 2114 2148 2178 2228	The Texas Co., miles west of Surface sand an Sand Shale Sand Shale Sand	on H. L. Brazoria. nd clay Well 1	Walker : 24 44 66 16 296 27	lease, 7 24 68 134 150 446 473
1 70 20 9 11 24 5 31 125 24 44 30 50 24 50	1751 1921 1841 1850 1861 1885 1890 1921 2046 2970 2114 2148 2178 2228	miles west of Surface sand an Sand Shale Sand Shale Sand	Brazoria. nd clay Well 1	24 44 66 16 296 27	24 68 134 150 446 473
70 20 9 11 24 5 31 125 24 44 34 30 50 24 50	1921 1841 1850 1861 1885 1890 1921 2046 2970 2114 2148 2178 2228	Surface sand an Sand Shale Sand Shale Sand	nd clay Well 1	24 44 66 16 296 27	24 68 134 150 446 473
20 9 11 24 5 31 125 24 44 34 30 50 24 50	1841 1850 1861 1885 1890 1921 2046 2070 2114 2148 2178 2228	Surface sand an Sand Shale Sand Shale Sand	nd clay Well 1	24 44 66 16 296 27	24 68 134 150 446 473
9 11 24 5 31 125 24 44 34 30 50 24 50	1850 1861 1885 1890 1921 2046 2070 2114 2148 2178 2228	Send Shale Shale Sand	Well 1	44 66 16 296 27	68 134 150 446 473
11 24 5 31 125 24 44 34 30 50 24 50	1861 1885 1890 1921 2048 2070 2114 2148 2178 2228	Shale Sand Shale Sand	Well 1	66 16 296 27	134 150 446 473
24 5 31 125 24 44 34 30 50 24 50	1885 1890 1921 2046 2970 2114 2148 2148 2178 2228	Sand Shale Sand	Well 1	16 296 27	150 446 473
5 31 125 24 44 34 30 50 24 50	1890 1921 204 2070 2114 2148 2178 2228	Shale Sand	Well 1	296 27	446 473
31 125 24 44 34 30 50 24 50	1921 2040 2070 2114 2148 2178 2228	Sand	Well 1	27	473
125 24 44 34 30 50 24 50	2048 2070 2114 2148 2178 2228		Well 1	1 4 4	į
24 44 34 30 50 24 50	2070 2114 2148 2178 2178		Well 1	44	
44 34 30 50 24	2114 2148 2178 2228		Well 1	144	
34 30 50 24	2148 2178 2228			L T T	
30 50 24	2178	1 .			
50 24 50	2228	Jefferson Lake	Sulphur (Co.Inc.	Patter
24 50		test 1. 3 miles	s south of	Brazeri	8.
50	2252				
00	2302	Surface clay		53	53
166	2468	Coarse-grained	sand	31	84
35	2503	Shale		365	449
35	2538	Coarse-grained	sand	47	496
147	2685	Shale		194	690
7	2692	Coarse-grained	sand	54	744
9 2	2784	Shale		2	746
25	2810				i
10	2820				
22	2842		Well :	146	
s 38	2880		Capitriza		•
15	2895	Jefferson Lake	Sulphur (Co., Inc.,	Weims
15	2910	No. 2, 3 miles	south of	Brazorie	, 1.
15	2925				
28	2953)	Clay		56	56
7	2960	Sand		34	90
48	- 3008	Shele		366	456
	4783	Sand		12	468
		Shole		3	471
an den de seguine		Sand		1	472
20	3	Shale		1	473
-traffe m		Sand		18	491
miles w	rest of	Shale		9	500
10	010		Well 1	147	
20	30				
95	125	Jefferson Lake	Sulphur (Co., Inc.,	, Weims
25	150	No. 1, 3 miles	south of	Brazorie	à .
		Clay		56	56
	1	Sand		29	85
		Shale		365	450
		Sand		45	495
	35 35 147 7 92 26 10 22 38 15 15 28 7 48 .20 .20 	35 2503 35 2538 147 2695 92 2784 26 2810 10 2820 22 2842 38 2930 15 2910 15 2910 15 2925 28 2953 7 2960 48 3008 4783 20 30 95 125 25 150	35 2503 Shale 35 2538 Coarse-grained 147 2685 Shale 7 2692 Coarse-grained 92 2784 Shale 10 2820 Jefferson Lake 15 2925 Clay 7 2960 Sand 48 3008 Shele 4783 Sand Shale 20 30 Shale 10 10 10 20 30 Jefferson Lake 25 150 Jefferson Lake Sand Shale Sand Shale Sand Shale Sand Shale<	35 2503 Shale 35 2538 Coarse-grained sand 147 2685 Shale 7 2692 Coarse-grained sand 92 2784 Shale 92 2842 Well 15 2925 One 2, 3 miles south of 15 2925 Clay 7 2960 Sand 48 2008 Shele 4783 Sand 5hele Sand 20 30 95 125 10 10 20 30 95 125 25 150 No. 1, 3 miles south of Clay Sand Shale Sand	35 2503 Shale 365 35 2538 Coarse-grained sand 47 147 2685 Shale 194 7 2692 Coarse-grained sand 54 92 2784 Shale 2 92 2784 Shale 2 92 2784 Shale 2 92 2784 Shale 2 10 2820 Well 146 2 22 2842 Well 146 3 15 2895 Jefferson Lake Sulphur Co., Inc.,

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Т	hicknes:	s Depth (feet)	T	hickness (feet)	Depth (feet)
TTELL	(1000)				(1990)
			HOLI TOT' DEPCTE	10g	
Jefferson Lake Sulphur Co.	, Inc.,	Ring	Roxana Petroleum Corp., c	on Cleme	ns State
No. 1, 3 miles south of Br	azoria.		Farm, 32 miles southeast	of ^B raz	oria.
Rotary above ground	5	5	Black, surface soil	4	4
Surface clay	45	50	Red surface soil	3	7
Sand	26	, 76	Red water sand	35 ·	42
Shale	29	105	Red clay	100	142
Sand	12	117	Sand and gravel	15	157
Shale	141	258	Red gumbo	35	192
Sand	27	285	Red water sand	22	214
Shale	32	317	Gumbo	170	384
Sand	13	330	Blue gumbo	61	445
Sandy shale	74	404	Water sand and gravel	15	460
Sand	13	417	Rad gumbo	153	613
Shale	48	465	Blue shale and fossils	12	625
Shale and boulders	Ś	473	Blue gumbo	107	732
Sand and shale	11	484	Sand and fossils	10	742
Sand	16	500	Red gumbo and lime	56	798
Shale	4	504	Red gumbo	35	833
			Water sand	5	838
			Red gumbo	4	842
Well 15	50 ·		Gravel, sandy shale, and		1
			fossils	44	886
Jefferson lake Sulphur Co.	Inc.	Marcus	Pink gumbo	46	932
Weims No. 1. 3 miles south	of Bra	zoria.	Shale, fossils, and grav	el 24	956
,			Blue gumbo	6	962
Poterry above ground	ร่	5	Shale fossils and grav	el 28	990
Clav	49	\$ 54	Blue sumbo	28	1018
Sand	17	71	Water sand and gravel	37	1055
(ambo	28	99	Blue gumbo	4	1059
Shale	6	105	Sand gravel and boulde	rs 134	1193
Sand and emeral	75	180	Blue gumbo	34	1227
Cholo	27	207	Weter send and gravel	42	1269
Sand	ĩó	217	Blue mucho	10	1279
Shala	92	309	Book	10	1280
Sina 10	8	317	Rouldons shale and san		1200
	10	3 327	Boulders, shale, and san	uy 57	1307
	10	1 361	gravel	21	1007
Sandy shale	04	411	Blue gumbo	20	1000
Sandy shale and boulders	40	404	Shale and boulders	10	1340
Shale	8	402	Blue gumbo	21	TODA
Sand	2	404	Sandy gravel, boulders,		1 400
Shale	5	469	and shale	33	1402
Sand	37	506	Blue gumbo and lime	67	1469
Sha le	5	511	Red and blue shale and		
			boulders	18	1487
			Blue gumbo	12	1499
	,		Water sand and gravel	25	1524
			Reddish-blue shale and	<u> </u>	
			boulders	25	1549
			(Continued on next	; page)	

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T	hicknes (feet)	s Dopth (feet)		Thicknes (feet)	s Depth (feet)
Well 151, partial log	g - cont	inued	Well 151, cartial log	- conti	nued
Water sand and boulders	18	1567	Hard lime rock	1	2250
Blue gumbo	15	: 1583	Blue shale and boulders	21	2271
Water sand and boulders	35	1618	Blue gumbo and boulders	15	2286
Blue gumbo	65	1683	Hard, sandy line rock	10	2296
Blue gumbo and lime	47	1730	Hard sand rock	6	2302
Nater sand	3	1733	Blue gumbo and lime	3	2305
Sand and boulders	20	1753	Hard sand rock	16	2321
Blue gumbo	57	; 1810	Hard sand and pyrite	38	2359
Blue gumbo and boulders	23	1833	Hard, sandy lime and		1 }
Nater sand	2	1835	pyrite	28	2387
Sandy gravel and fossils	3	1838	Hard. sandy shale and 1	imə 17	2404
Blue gumb o	6	1844	[Blue shale	2::	2406
Sandy lime	2	1846	Hard, blue shale	12	2418
Shaly lime and blue and		1	Gummy blue shale	60	2478
red boulders	45	1891	Gummy blue shale and		;
Gumbo and blue lime	10	1901	lime	10	2488
Sand and boulders	12	1913	Gummy blue shale	13	2501
Blue gumbo	11	1924	TOTAL DEPTH		3102
Pink and blue gumbo	64	1988			•
Sandy lime and boulders	6	1994			
Shale and boulders	4	1998	Well 205, rarti	al log	
Hard sand rock	18	2016			
Hard sand rock and pyrite	э 12	2028	Shell Oil Co.Inc., on T	, J. Poo	le lease
Hard rock and streaks of		1	13th miles wert of Freep	ort.	
soft rock	13	2041			
Herd rock	1	2042	Surface soil	12	12
Blue gumbo and boulders	10	2052	Surface sand	6	18
Blue water sand	2	2054	Clay	45	63
Blue gumbo and boulders	7	2061	Water sand	175	238
Blue gumbo, lime, and		1	Gumbo	75	313
boulders	40	2101	Sand	43	356
Blue water sand	4	2105	Sandy shale	60	416
Blue water sand, boulders	з,	1	Shale	61	477
and streaks of shale	39	2144	Sticky shale	19	496
Hard blue water sand,			Shale and boulders	11	507
shale and boulders	11	2155	Sticky shale	70	577
lard sandy lime and		1	Shale and boulders	16	; 593
Fyrite	4	2159	Sticky shale	31 '	624
lard sandy lime, calcite	,	1	Sand, fossils, and		1
and pyrite	6	2165	boulders	62	686
lard, sandý lime and pyri	te 10	2175	Sticky blue shale	14	700
lue gumbo and lime	10	2185	Sandy shale and boulder	s 22	722
ard, sandy lime and pyri	te 3	2188	Gumbo	23	745
lue shale	11	2199	Shale and fossils	47	792
and and shale	2	2201	Sand and gravel	50	842
ard lime and blue shale	3	2204	Shale and fossils	34	876
lue gumbo and lime	33	2237	Sticky shale	66	942
lue water sand and shale	6	2243	Shale and boulders	78	1020
· - 1- ·	6	1 2249	(Continued on ner	t nage)	i

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j	hickness (feet)	Depth (feet)	Thickn (feet	ess Depth) (feet
Well 205, partial log	- conti:	nued	Well 211, partial log "	continue
Blue gumbo	19	1039	Gumbo 86	736
Sand	2	1041	Shale 38	774
Sandy shale and fossils	20	1061	Shale and lime 20	794
Blue gumbo	23	1084	Shale and shells 56	850
Shale and boulders	6	1090	Gumbo 65	915
Blue gumbo	99	1189	Shells 5	920
Sandy cumbo	24	1213	Fresh upter cand 2	. 022
Vatar sand	2	1215	Cond and lime 29	922
Sand and houlders	ג זיר	1232	Cumme shale and shalls 50	900
Sandy shale and houlders	145	1377	Gumba 50	1000
The lo and forsils	39	1409	Conducto abolo	1050
Shale and IOSSIIS	52	1405	Disandy shale 2	1052
Sandy shale and lossils	U C	1414	blue sandy snale and	1000
hale and harders	0	, 142U		1054
nale and Doulders	70	1490	Isnale and shells 12	1066
Slue gumbo	30	1520	Gumbo 34	1100
ummy shale and fossils	31	1551	Shale and shells 9	1109
and	1	1552	Blue water sand 26	1135
Sandy lime	1	1553	Blue gumbo 10	1145
and and shale	24	1577	Brown and blue sandy shale70	1215
hale and boulders	9	1586	Rock 1	1216
lue gumbo	44	1630	Dark blue shale and lime 4	1220
ime and calcite	6	1636	Blue gumbo 16	; 1236
Sand and shale	6	1642	Hard sand and shells 42	1278
Sandy shale	18	1660	Blue shale and lime	
lime rock	7	1667	streaks 44	1322
lime and calcite	12	1679	Blue shale, lime streaks,	3
Hard shale and lime rock	11	1690	and shells 26	1348
Hard sandy shale	40	1730	Gummy blue shale 24	1372
Shale and lime	70	1800	Lime rock 8	1380
Humbo and pink lime	30	1850	Lime and shells 11	1391
Jumbo and lime	30	1860	Blue gumbo 34	1425
Shale and lime	33	1893	Gummy blue shale and	1
later sand	11	; 1904	shells 70	1495
Sandy shale	30 [°]	1934	Blue water sand 14	1509
balt water sand	21	1955	Blue shale and shells 56	1565
Sticky gumbo	67	2022	Blue gumbo 45	1610
TOTAL DEPTH		5958	Water sand 10	1620
			Blue gumbo 59	1679
			Tough brown and blue	
Wall 211 no -++	el log		gumbo 179	1858
Herr erre harot			Blue water sand 5	1863
Roxana Petroleum Corp :	12 <mark>늘</mark> miles	s west	Blue gumbo 21	1884
of Freeport.	~		Blue and brown gumbo 46	1930
		÷	Blue gumbo 159	2089
Rivor bed sand	10	10	Blue gumbo and lime 42	2131
fummy shale and shells	92	102	Blue gumbo 25	2156
hummy red shale	111	213	Blue gumbo and lime 44	2200
Gummy shale	302	515	Water sand 5	. 2205
Nater sand	35	550	Hard blue water sand 11	2216
Shale and shells	100	650	(Continued on next page)	1
Year a V LLAN HEEVE AND				-

	Thickness	Depth		Thicknes	s Depth
	(feet)	(fect)		(feet)	(feet)
			Well	222	
Well 211, partial 1	.cg - conti:	nued	Freeport Sulphur Co., of Freeport.	4 ¹ / ₂ miles	northwest
Blue water sand	19	2235	Clay	20	20
Blue gumbo	34	2269	Fine-grained sand	15	35
Blue water sand and li	me		Clay	20	55
streaks	11	2280	Fine-grained sand	20	75
Blue sumbo	15	2295	Gumbo	10	85
Sand and lime	2	2297	Fine-grained sand	20	105
Blue sand and shale	15	2312	Gumbo	67	172
Blue sumbo	56	2368	Sand and gravel	36	208
Blue shale calcite.		1	Gumbo	2	210
and lime	11	2379			•
Blue gumbo	53	2432	Well	228	and the second secon
Hard sandy lime rock	11	2443	Freeport Sulphur Co.	45 miles	west of
Weter send	3	2446	Freeport.		
	13	2459	Clay	75	75
Blue sumbo and lime	105	2564	Fine-grained sand	15	90
Blue and brown gumbo	92	2656	Gumbo	80	170
Blue mmbe	28	2684	Sand and gravel	34	204
Line and sand	6	2690	Gumbo	3	207
Lime and sand	ลดั	27.70		C	
Blue gumbo and lime	39	2809	Well	230	
Blue gambo and line	11	2820	Freenant Sulphur Co	TA miles	southwest
Blue water sand	20	2840	of Freeport	2.45 m1103	BOUGINOBU
Blue gumbo	20	2648	Clay	33	33
Lime rock		2850	Gumbo	142	175
Hard sand and blue she		20.00	Sand and mmbo	25	200
Hard water sand	5	2000	Sand and gumbo	20	203
Hard blue sand	ి	2800	Gumbo	J	1 200
Hard blue sand rock	22	2890			
Sand and blue shale	20	2900		071	
Hard sand and pyrite	ĩ	2902	Melt	201	
Lime rock	3	2905		1	
TOTAL DEPTH		5001	freeport Sulphur Co.	, 42 miles	Boutnwest
Well	221				
	_1		Clay and gumbo	175	175
Freeport Sulphur Co.,	5克 miles n	orth-	Fine-grained sand	5	180
west of Freeport.			Coarse-grained sand	15	195
-		1	Gravel	9	204
Clay	10	10	Gumbo	3	207
Fine-grained sand	40	50			
Clay	10	60			
Sand	62	122	Well	232	
clay	37	159			
Sand and gravel	35	194	U. S. Engineers, 42	miles south	west of
Gumbo	2	196	Freeport.		
		,	-		
			Clay	41	- 41
:			Gray sand and clay 1	ayers 19	60
х •			Clay	144	204
:			Grav sand and gravel	31	235
:			Clay	6	241

Thic	kness	Dopth	T	hicknes	s Depth
(fe	et)	(feet)		(feet)	(feet)
Well 300			Well 30	3	
U. S. Engineers, 42 miles so Velasco.	outhwe	est of	Defense Plant Corp. No. west of Velasco.	7,2 <u>4</u> mi]	les south-
Red and blue clay	100	100	Black surface soil	3	3
Clay	42	142	Red clay	20	23
Sandy clay	-48	190	Fine-grained red sand	17	40
Coarse-grained gray sand	34	224	Red clay and fine-grained	d	
Clay	6	230	red sand	36	76
			Gray shale	23	99
			Fine-grained gray sand	12	111
Well 301			Gray shale	73	184
			Gray sand-good	33	217
Known as Reed well, 3 miles	south	west of	Shale	7	224
Velasco.					
Black asphaltic soil	30	30	Well 304	4	
Yellow clay	12	42 ·			
Quicksand	20	62	The Dow Chemical Co. No.	7, 2 mi	les south
Yellow clay	25	87	west of Velasco.		
Black clay	5	· 92			
Black clay and red ferrugi-			Fill and muck	12	12
nous spots	70	162	Clay	11	23
Black clay and minute white	1		Clay and streaks of sand	27	50
shells	27	189	Fine-grained sand	5	55
Quicksand	21	210	Soft clay	19	74
Blue quicksand	16	226	Fine-grained blue sand	12	86
Black clay, and altered	1		Clay	23	109
lime and iron	18	244	Clay and sand	46	155
Plack glay and shale	3	247	White sand	20	175
Black shale and sand	28	275	Clay	40	215
Black shale	55	330	Coarse-grained sand and		•
Black shale and gravel	15	345	gravel	32	247
Soft black clay and thin	1	.	Clay	6	253
laver of hard rock	60	405			•
Soft blue and vellow clav	62	467			
Yellow clay, sand.and	1		Well 30	5	
shale	82	549		-	
Sand, pebbles, and shale	8	557	The Dow Chemical Co. No.	6. 1 1 m	niles
Yellow clay, sand, and shale	30	587	southwest of Velasco.	-, -2 "	
Hard rock	2	589			
Sand and large pebbles	2	591	Surface soil	2	2
Gravel and flint	4	595	Muck	23	25
Black clay and shale	2	597	Clav	9	34
Hard rock	ĩ	598	Fine-grained sand	10	44
	•		Clay, streaks of sand	47	91
			Blue clay	11	102
,	•		Fine-grained sand	14	116
			Ped clav	5	121
			(Gontinued on next re	age)	;
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Table of drillers! logs, Brazoria County -- Continued

••••••••••••••••••••••••••••••••••••••	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well 305 continued			Well 305 continued		
Fine-grained brown sand Clay Coarse-grained sand and gravel Tough clay	26 74 27 56	147 221 248 254	Red clay Soft red clay Sticky red clay Good coarse-grained sand Shale Fine-grained sand Shale	54 120 29 24 2 15 2	57 177 206 230 232 247 249
The Dow Chemical Co. No.	13. in Fre	eport.			
Surface soil Sand Clay Sand Clay Sand Clay Sandy Clay Clay Sand Tough shale Shale Tough shale	12 14 14 21 19 15 21 18 20 34 17 65 7	12 26 40 61 80 95 116 134 154 154 188 205 270 277	Well 309City of Freeport No. 7, inSurface soilRed claySoft red claySoft red clayGood water sandShaleCoarse sand and gravelShaleWell 310	n Freepor 54 120 29 24 2 15 2	3 57 177 206 230 232 247 249
7ell 307			City of Freeport No. 3, in Freeport.		
The Dow Chemical Co. No. Clay, surface material Clay Red Sand Clay Sandy clay Send Clay Red sand	14, in Fre 25 18 21 20 10 9 5	15 40 58 79 99 109 113 123	Red and blue clay Sand Red and blue clay Shale and shell Blue clay Sand, shale, and shell Blue clay Coarse-grained sand Blue clay	20 8 74 23 25 22 53 25 1	20 28 102 125 150 172 225 250 251
Sandy clay Clay Sandy clay Sand	10 20 26 51	133 153 179 230	Well 311 City of Freeport No. 4, i	n Freepor	•t.
Well 308 City of Freeport No. 6, 5 Surface Soil	3 in Freepor 3	t 3	Red and yellow clay Fine-grained sand Coarse-grained sand Yellow and blue clay Shale and shell Blue clay Sand, shale, and shell Blue clay Coarse-grained sand	15 10 10 65 25 25 25 25 25 25 25	15 25 35 100 125 150 172 225 250

	Thickness	Depth	T	hickness	Depth	
	(feet)	(feet)		(feet)	(feet)	
Well 312			<u>Well 315</u>			
City of Freeport No. 5, in Freeport.			The Dow Chemical Co. No. 2, $2\frac{1}{4}$ miles southeast of Velasco.			
Surface soil	5	5				
Clay	3	8	Sand	48	48	
Fine-grained sandy clay	15	23	Soft clay and shell	30	78	
Sand and shells	8	31	Sand	13	91	
Clay	69	100	Clay	20	111	
Sticky shale	26	126	Sand	15	126	
Stîcky claý	11	137	Red and blue clay, streak	3		
Soft shale and shells	38	175	of sand	27	153	
Sticky clay	51	226	Blue clay	33	186	
Sand	23	249	Fine-grained gray sand	21	207	
Clay	1	250	Red clay	6	213	
			Sand	43	256	
Well 3	13		Clay	9	265	

The Dow Chemical Co. No. 5, l_{4}^{3} miles southeast of Velasco.			<u>Well 316</u>			
	· •		The Dow Chemicel Co. No.	12, 2불 mi	les	
Soil	2	2	southeast of Velasco.			
Clay	15	17	Sand and shall	36	36	
White sand	10	1 00	Clay	11	47	
Sand, layers of clay	49 10	19	Send and fine-grained sam	a 74	121	
Bine clay	12 D'h	110	Sand (lavers)	25	146	
Mana, layers of clay		122	Sandy shale	39	185	
Sand lavers of clay	89	211	Blue clay	33	218	
Sand and gravel	32	243	Sand	35	253	
Cleve Cleve	9	252	Shale	33	286	
Oldy	v		Shale and sand layers	48	334	
			Sticky shale	20	354	
Well 3	14		Soft shale	8	362	
			Sticky shale	78	440	
The Dow Chemical Co. No	. 11. 2 ¹ / ₄ m	iles	Shale, soft, sandy	35	475	
southeast of Velasco.	, , ,		Shale	110	585	
•			Sand	16	601	
Fil l	9	; 9 .	Sandy shale	10	611	
Soft clay	8	17	Shale	37	648	
Sand	15	32	Good sand	10	658	
Soft clay	27	59	Soft shale	12	670	
Clay	22	81	Sand	10	000	
Sticky clay	12	93	Sandy Shale	11 97	723	
Blue clay	57	150	Sha La	20	762	
Sand and shell breaks	33	183	Sticky shale	32	794	
Soft clay	45	228	Hard chale	10	804	
Fine-grained gray sand	26	254	Sticky shale	161	965	
Coarse-grained sand	10	264	Sand	165	1130	
Clay	Э	: 203			1	

Thickness Depth			Thickne	ss Depth	
	(1960)	(1662)	(feet)	(IGET)	
Well 31	7		Well 318 continued		
The Dow Chemical Co. No.	9, 2 ¹ / ₄	miles [Mud and sand 8	8	
southeast of Velasco.	<i>,</i> -		Soft red and blue clay 12	20	
			Sand 15	35	
Sand	4	4	Soft red clay 30	65	
Blue clay	13	17	Clay 23	88	
Sand	21	38	Hard blue clay and shells 49	137	
Blue clay	9	47	Fine-grained gray sand 20	157	
Soft blue shale, shell	92	139	Soft clay 41	198	
Fine-grained sand	32	1 171	Grav sand 25	223	
Soft blue shale	45	216	Coarse-grained gray sand 12	235	
Good water sand	26	244	Clay 6	241	
Fine-grained sand	2	246			
Shale, thin layers sand	38	284			
Sand, layers shale	26	310	Well 319		
Shale	10	320			
Sandy shale and sand	14	334	The Dow Chemical Co. No. 10.	2 miles	
Shale	7	341	southeast of Velasco.	Ŧ	
Sand and shale	5	346		:	
Shale	-27	373	Blue clay 26	26	
Shale. sandy shale and	n.n		Fine-grained sand and		
shell	37	410	clay 20	46	
Sticky shale	31	441	Soft blue clay 30	76	
Shale and sandy shale	4	445	Soft blue shale 35	111	
Fine-grained sand, shale			Sand 55	166	
and shell	45	490	Soft shale - fine-		
Sandy shale and shell	22	512	grained sand 22	188	
Sandy shale, shell	59	571	Good water sand 23	211	
Sand and shale	94	665	Sandy shale 15	226	
Good sand	14	679	Good shale 18	244	
Soft shale	20	699	Shale, sand layers 86	330	
Soft shale, layers and			Sticky shale 15	345	
sticky shale	87	786	Soft shale, some shell 12	357	
Sand, shell, and shale			Sticky shale 78	435	
layers	25	811	Soft shale 39	474	
Shale	12	823	Soft shale-layers of	\$ \$	
Layers soft shale, some		1	sticky shale, sand 153	627	
sand and shell	67	890	Sand and shale layers 27	654	
Sand - good	21	911	Good sand 16	670	
Sticky shale	55	966	Sticky shale 12	682	
Soft shale, sand layers	21	987	Sandy shale, fine-	1 077	
Sand, 1076 to 1116 good,			grained sand and shale 55	737	
top finer than bottom	137	1124	Shale 12	749	
Shale	3	1127	Suicky shale 62	1 011	
			Solt shale 60	876	
			Stieler cholo lorrore condi-	010	
Well 31	<u>c</u>		shale some shall 79	954	
			Silate, Solic Silett 10	981	
The Dow Chemical Co. No. 1, 24 miles			Fine-grained cond 30	1011	
southeast of Velasco.			(Continued on next name	3)	
			(centrada on novo bag	- /	

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- 70 -
Table of drillers' logs, Brazoria County -- Continued Thickness Depth Thickness Depth (feet) (feet) (feet) (feet) Well 319 -- continued Well 322 1075 The Dow Chemical Co. No. 8, 3 miles Good water sand 64 Sticky shale 21 1096 southeast of Velasco. 39 Good sand 1135 Shale 2 1137 Sand, clay and fill 10 10 Yellow clay 101 111 Sandy shale 20 131 Soft shale and shells Well 320 52 183 Sticky shale 46 229 The Dow Chemical Co. No. 3, $2\frac{1}{4}$ miles Fine-grained sand 12 241 southeast of Velasco. Coarse-grained sand 6 247 Tough clay 16 263 2 Soil 2 23 Fine-grained sand 21 30 53 Well 323 Clay Fine-grained sand 11 64 U. S. Army, 32 miles southeast of Velasco. Soft clay 20 84

Surface sand

Sand

Shale

Sand

Well 321

31

60

8

6

16

21

23

6

115

175

183

199 205

226

246

252

The Dow Chemical Co. No. 4, $2\frac{3}{4}$ miles southeast of Velasco.

Clay

Sandy clay

Soft clay

Hard clay

White sand

Hard clay-

Fine-grained sand and

Sandy clay and shells

streaks of clay

Sand	18	18
Soft clay	7	25
Soft clay and sand	18	43
Sand	22	65
Soft clay and sand streaks	44	109
Fine-grained blue sand and		1
clay breaks	21	130
Fine-grained blue sand	31	161
Clay and sand breaks	15	176
Soft clay and layers sand	16	192
Clay	5	197
Red and blue clay with		2 2 2
layers of sand	23	220
Sand with shale breaks	6	226
Good sand	37	263
Shale	10	273

Well 326

24

22

179

32

24

46

225

257

Missouri Pacific Ry. Co., $\frac{3}{4}$ mile northeast of Velasco.

Sub-soil	16	16
Red clay	24	40
Fine sand	30	70
Blue clay	40	110
Sand and shell	25	135
Blue clay and shell	42	177
Send	8	185
Gumbo	59	244
Coarse sand	23	267

Well 327

City of Velasco No. 2, in Velasco.

Soil	2	2
Clay	90	92
Fine-grained sand and	1	
shells	12	104
Soft clay	114	218
Coarse-grained sand	1	
and gravel	27 ;	245
Clay	10	255

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	Inickne	ss Depth (Thicknes	s Depth
	(Teet)	<u> </u>		(leet)	(leet)
Well 3	28		<u>Well 331 co</u>	ntinued	
City of Velasco No. 1.	in Velasc		Sand	2	20
•			Clay and sand	10	30
Surface soil	9	9	Sand	19	49
Fine-grained red sand	8	17	Sand, clay and shell	87	135
Red clay	100	117	Clay and sand	23	159
Fine-grained sand and		:	Sand, good	29	188
clay	31	148	Clay	23	211
Soft clay	68	216	Shale	24	235
Coarse-grained sand	47	263	Sand and clay	13	248
Soft shale	3	265			
				0	
Well 3	29		Well 33	2	
			Defense Plant Corn. No	.]. 28 m11	es north.
Miseouri Pacific Ry. Co.	. 3 ³ mil	es north	west of Velasco.	·, ~4 m+1	
west of Velasco.	, o ₄ mii				
		I	Clay	45	45
Clay	15	15	Sand	20	65
Sand	25	40	Clay	115	180
Clay	78	118	Sand	2	182
Send	17	135	Clay	17	199
Clay	61	195	Sand	26	225
Sand	38	234			•
Clay	6	240		,	
1996 - Bardadaria Martada Barg Gatanan auto ante ante a como		:	<u>Well 33</u>	3	
<u>Well 33</u>	<u>30</u>		Defense Plant Corp. No	. 3, $3\frac{1}{4}$ mil	.e s
Defense Plant Corn. No	5 7 <u>3</u> mi	100	northwest of Velasco.		
northwest of Velagoo	5, 54 mi	Tes		4.0	1 10
northwest of verased.		1	Gand	40	40
Surface material	16	: 16	Dand montred and	10 10	50
Sand	10 90		Clow and cond	22	.72
Claw.	20	51		21 87	93
Sandr cler	, 99		Glass	33	126
Clev Clay	22 7 C	1 1/0	Gard	19	145
Gandr dlor	(O 97	149	Sand	22	167
Clow	20	172	Clay	. 8	175
dang Araj	67	133	Sana	47	222
Clev	00 10	229	UIA y	1	223
ciay	10	209			• •
			Well 334	<u>4</u>	
Well 33	<u>1</u>		Defense Plant C.rp. No northwest of Velasco.	• 6, $3\frac{1}{4}$ mil	es
Defense Plant Corp. No.	2, 3 1 mi	les	Surface material	10	10
northwest of Velasco.		1	Sandy clay	20	30
			Sand	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	30
Surface material	10	10	Clav	ים מח	. 05 1 QA
Clay	8	18	Sandy clay	**	94
-	C	!	Sand	2 0	114
		1	ULAY (G. H.	. 38	152
			(Continued on nex	t page)	

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	Thickne	ss Depth		Thickne	ss Depth
	(feet)	(feet)		(feet)	(feet)
			Well	337	
Well 334	continued	-	Defense Plant Corp. No. west of Velasco.	8, 3 <u>1</u> mi	iles north-
Coarse-grained sand	23	175	Surface material	6	6
Shale	8	183	Clay, sandy clay, sand		
Sand	54	237	breaks	97	103
			Sand, clay breaks	20	123
			Clay, some sandy breaks	81	204
Well	335		Good water sand	31	235
	- 7		Clay	30	265
Defense Plant Corp. No	. 4, 3 <u>4</u> n	iles north	Fine-grained sand, shale	э 1	
west of Velasco.			breaks	24	289
	1		Shale, some sandy break	s 236	525
Clay	42	42	Sand	16	541
Sand	17	59	Shale	25	566
Clay	32	91	Sand, shale	40	606
Sandy clay	23	114 [.]	Shale, some sandy break	s 184	790
Clay	47	161	Sand and shale	60	850
Sand	25	186	Shale	33	883
Clay	5	191	Sand	4	887
Sand	5	196	Tough shale	110	; 997
Clay	8	204	Shale and sandy shale	14	1011
Sand	35	239	Sand(good, top part fine	-	
Clay	2	241	grained)	49	; 1060
			Shale	5	1065
Well	336			770	
Defense Dient Cam No	0 3 -	log nowth-	Well	000	
perense Plant Corp. No	• 9, 0 mi	les north-	Defense Blant Com Ja		
west of verasco.			$3^{3^{\circ}}$ miles north of Vela	mp chemi	ICAI NO. 1,
Soft clay with sand	es. :				:
			Coil	2	i 'n
breaks	173	173	1 2011	~	÷ 4
breaks Fine-grained sand	173 18	173 191	Shale and sand layers	102	104
breaks Fine-grained sand Sand and shale	173 18 15	173 191 206	Soll Shale and sand layers Shale	102 14	104 118
breaks Fine-grained sand Sand and shale Good water sand	173 18 15 23	173 191 206 229	Soll Shale and sand layers Shale Sand	102 14 9	104 118 127
breaks Fine-grained sand Sand and shale Good water sand Shale	173 18 15 23 30	173 191 206 229 259	Soll Shale and sand layers Sand Shale	102 14 9 43	104 118 127 170
breaks Fine-grained sand Sand and shale Good water sand Shale Fine-grained sand	173 18 15 23 30 10	173 191 206 229 259 269	Soll Shale and sand layers Shale Sand Shale Sand and gravel	102 14 9 43 24	104 118 127 170 194
breaks Fine-grained sand Sand and shale Good water sand Shale Fine-grained sand Soft shale	173 18 15 23 30 10 44	173 191 206 229 259 269 513	Soll Shale and sand layers Shale Sand Shale Sand and gravel Sticky shale	102 14 9 43 24 8	104 118 127 170 194 202
breaks Fine-grained sand Sand and shale Good water sand Shale Fine-grained sand Soft shale Good water sand	173 18 15 23 30 10 44 21	173 191 206 229 259 269 513 534	Soll Shale and sand layers Shale Sand and gravel Sticky shale Coarse-grained sand and	102 14 9 43 24 8	104 118 127 170 194 202
breaks Fine-grained sand Sand and shale Good water sand Shale Fine-grained sand Soft shale Good water sand Soft shale	173 18 15 23 30 10 44 21 45	173 191 206 229 259 269 513 534 579	Soll Shale and sand layers Shale Sand Shale Sand and gravel Sticky shale Coarse-grained sand and gravel	102 14 9 43 24 8	104 118 127 170 194 202 239
breaks Fine-grained sand Sand and shale Good water sand Shale Fine-grained sand Soft shale Good water sand Soft shale Soft shale	$ 173 \\ 18 \\ 15 \\ 23 \\ 30 \\ 10 \\ 44 \\ 21 \\ 45 \\ 19 \\ 19 $	173 191 206 229 259 269 513 534 579 598	Soll Shale and sand layers Shale Sand Shale Sand and gravel Sticky shale Coarse-grained sand and gravel	102 14 9 43 24 8 37	104 118 127 170 194 202 239
breaks Fine-grained sand Sand and shale Good water sand Shale Fine-grained sand Soft shale Good water sand Soft shale Sand Shale	173 18 15 23 30 10 44 21 45 19 27	173 191 206 229 259 269 513 534 579 598 625	Soll Shale and sand layers Shale Sand Shale Sand and gravel Sticky shale Coarse-grained sand and gravel	102 14 9 43 24 8 37	104 118 127 170 194 202 239
breaks Fine-grained sand Sand and shale Good water sand Shale Fine-grained sand Soft shale Good water sand Soft shale Send Shale Tough shale few soft	173 18 15 23 30 10 44 21 45 19 27	173 191 206 229 259 269 513 534 579 598 625	Soll Shale and sand layers Shale Sand Shale Sand and gravel Sticky shale Coarse-grained sand and gravel Well	102 14 9 43 24 8 37 339	104 118 127 170 194 202 239
breaks Fine-grained sand Sand and shale Good water sand Shale Fine-grained sand Soft shale Good water sand Soft shale Sand Shale Tough shale, few soft	173 18 15 23 30 10 44 21 45 19 27 45	173 191 206 229 259 269 513 534 579 598 625	Soll Shale and sand layers Shale Sand Shale Sand and gravel Sticky shale Coarse-grained sand and gravel Well	102 14 9 43 24 8 37 339	104 118 127 170 194 202 239
breaks Fine-grained sand Sand and shale Good water sand Shale Fine-grained sand Soft shale Good water sand Soft shale Sand Shale Tough shale, few soft streaks Sandy shale and shall	$ 173 \\ 18 \\ 15 \\ 23 \\ 30 \\ 10 \\ 44 \\ 21 \\ 45 \\ 19 \\ 27 \\ 45 \\ 232 \\ $	173 191 206 229 259 269 513 534 579 598 625 670 902	Soll Shale and sand layers Shale Sand and gravel Sticky shale Coarse-grained sand and gravel Well Defense Plant Corp., Car	102 14 9 43 24 8 37 339 np Chemi	104 118 127 170 194 202 239
breaks Fine-grained sand Sand and shale Good water sand Shale Fine-grained sand Soft shale Good water sand Soft shale Send Shale Tough shale, few soft streaks Sandy shale and shell Fine-grained sand	$ 173 \\ 18 \\ 15 \\ 23 \\ 30 \\ 10 \\ 44 \\ 21 \\ 45 \\ 19 \\ 27 \\ 45 \\ 29 \\ 27 \\ 45 \\ 232 \\ 34 \\ 34 $	173 191 206 229 259 269 513 534 579 598 625 670 902 936	Soll Shale and sand layers Shale Sand Shale Sand and gravel Sticky shale Coarse-grained sand and gravel Well Defense Plant Corp., Can 4 miles northwest of Ve	102 14 9 43 24 8 37 339 np Chemi lasco.	104 118 127 170 194 202 239
breaks Fine-grained sand Sand and shale Good water sand Shale Fine-grained sand Soft shale Good water sand Soft shale Sand Shale Tough shale, few soft streaks Sandy shale and shell Fine-grained sand Good sand	$ 173 \\ 18 \\ 15 \\ 23 \\ 30 \\ 10 \\ 44 \\ 21 \\ 45 \\ 19 \\ 27 \\ 45 \\ 29 \\ 27 \\ 45 \\ 232 \\ 34 \\ 101 \\ 101 $	173 191 206 229 259 269 513 534 579 598 625 670 902 936 1037	Soll Shale and sand layers Shale Sand Shale Sand and gravel Sticky shale Coarse-grained sand and gravel Well Defense Plant Corp., Can 4 miles northwest of Ve	102 14 9 43 24 8 37 339 np Chemi lasco.	104 118 127 170 194 202 239
breaks Fine-grained sand Sand and shale Good water sand Shale Fine-grained sand Soft shale Good water sand Soft shale Send Shale Tough shale, few soft streaks Sandy shale and shell Fine-grained sand Good sand Shale and sandy shale	$ 173 \\ 18 \\ 15 \\ 23 \\ 30 \\ 10 \\ 44 \\ 21 \\ 45 \\ 19 \\ 27 \\ 45 \\ 232 \\ 34 \\ 101 \\ 25 \\ $	173 191 206 229 259 269 513 534 579 598 625 670 902 936 1037 1062	Soll Shale and sand layers Shale Sand Shale Sand and gravel Sticky shale Coarse-grained sand and gravel Well Defense Plant Corp., Can 4 miles northwest of Ve Sandy clay	102 14 9 43 24 8 37 339 np Chemi lasco. 27	104 118 127 170 194 202 239 .cal No. 2,
breaks Fine-grained sand Sand and shale Good water sand Shale Fine-grained sand Soft shale Good water sand Soft shale Sand Shale Tough shale, few soft streaks Sandy shale and shell Fine-grained sand Good sand Shale and sandy shale Cord sand	$ 173 \\ 18 \\ 15 \\ 23 \\ 30 \\ 10 \\ 44 \\ 21 \\ 45 \\ 19 \\ 27 \\ 45 \\ 232 \\ 34 \\ 101 \\ 25 \\ 165 \\ 165 $	173 191 206 229 259 269 513 534 579 598 625 670 902 936 1037 1062 1227	Soll Shale and sand layers Shale Sand Shale Sand and gravel Sticky shale Coarse-grained sand and gravel Well Defense Plant Corp., Can 4 miles northwest of Ve Sandy clay Sand	102 14 9 43 24 8 37 339 np Chemi lasco. 27 23	104 118 127 170 194 202 239 .cal No. 2,
breaks Fine-grained sand Sand and shale Good water sand Shale Fine-grained sand Soft shale Good water sand Soft shale Sand Shale Tough shale, few soft streaks Sandy shale and shell Fine-grained sand Good sand Shale and sandy shale Good sand Shale and sandy shale Good sand	$ \begin{array}{r} 173 \\ 18 \\ 15 \\ 23 \\ 30 \\ 10 \\ 44 \\ 21 \\ 45 \\ 19 \\ 27 \\ 45 \\ 232 \\ 34 \\ 101 \\ 25 \\ 165 \\ 10 \\ 10 \end{array} $	173 191 206 229 259 269 513 534 579 598 625 670 902 936 1037 1062 1227 1237	Soll Shale and sand layers Shale Sand Shale Sand and gravel Sticky shale Coarse-grained sand and gravel Well Defense Plant Corp., Can 4 miles northwest of Ve Sandy clay Sand Sandy clay	102 14 9 43 24 8 37 339 np Chemi la sco. 27 23 43	104 118 127 170 194 202 239 .cal No. 2, 27 50 93
breaks Fine-grained sand Sand and shale Good water sand Shale Fine-grained sand Soft shale Good water sand Soft shale Sand Shale Tough shale, few soft streaks Sandy shale and shell Fine-grained sand Good sand Shale and sandy shale Good sand Hard sand Hard sand	$ \begin{array}{r} 173 \\ 18 \\ 15 \\ 23 \\ 30 \\ 10 \\ 44 \\ 21 \\ 45 \\ 19 \\ 27 \\ 45 \\ 232 \\ 34 \\ 101 \\ 25 \\ 165 \\ 10 \\ 1 1 1 1 1 $	$ 173 \\ 191 \\ 206 \\ 229 \\ 259 \\ 269 \\ 513 \\ 534 \\ 579 \\ 598 \\ 625 \\ 670 \\ 902 \\ 936 \\ 1037 \\ 1062 \\ 1227 \\ 1237 \\ 1238 \\ $	Soll Shale and sand layers Shale Sand Shale Sand and gravel Sticky shale Coarse-grained sand and gravel Well Defense Plant Corp., Can 4 miles northwest of Ve Sandy clay Sand Sandy clay Sand	102 14 9 43 24 8 37 339 np Chemi lasco. 27 23 43 10	104 118 127 170 194 202 239 .cal No. 2, 27 50 93 103
breaks Fine-grained sand Sand and shale Good water sand Shale Fine-grained sand Soft shale Good water sand Soft shale Send Shale Tough shale, few soft streaks Sandy shale and shell Fine-grained sand Good sand Shale and sandy shale Good sand Hard sand rock	$ \begin{array}{r} 173 \\ 18 \\ 15 \\ 23 \\ 30 \\ 10 \\ 44 \\ 21 \\ 45 \\ 19 \\ 27 \\ 45 \\ 232 \\ 34 \\ 101 \\ 25 \\ 165 \\ 10 \\ 1 \end{array} $	$ 173 \\ 191 \\ 206 \\ 229 \\ 259 \\ 269 \\ 513 \\ 534 \\ 579 \\ 598 \\ 625 \\ 670 \\ 902 \\ 936 \\ 1037 \\ 1062 \\ 1227 \\ 1237 \\ 1238 \\ $	Soll Shale and sand layers Shale Sand Shale Sand and gravel Sticky shale Coarse-grained sand and gravel Well Defense Plant Corp., Can 4 miles northwest of Ver Sandy clay Sand Sandy clay Sand Sandy clay Sand Sandy clay Sand Sandy clay Sand Sandy clay Sand Sandy clay Sand	102 14 9 43 24 8 37 339 np Chemi lasco. 27 23 43 10 12	104 118 127 170 194 202 239 .cal No. 2, 27 50 93 103 115

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	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well 3	40		Well 34	13	
Defense Plant Corp., (1), $3\frac{1}{2}$ miles northwe	Camp Chemics st of Velaso	al No.3	Defense Plant Corp. No. west of Velasco.	9, $4\frac{1}{4}$ mile	es north-
Surface material Clay Sand Sandy clay Red sand Clay Sendy clay Send and clay	5 5 20 25 5 20 76 10	5 10 30 55 60 80 156 166	Black surface soil Clay Sandy clay Shale and layers of sar Sand and gravel Sticky shale Sand and gravel Sticky shale	6 10 50 102 16 16 27 3	6 16 66 168 184 200 227 230
Clay Sand	12 12 32	198 198 230	Well 34	14	
Well 3	41		The Dow Chemical Co. No Lake Pumping Station, S of Velasco.). 2 at Jack) miles nort	son hwest
Black surface soil Clay Brown sand Blue and red shale Coarse-grained sand as gravel Sticky shale Sand (fair) Sticky shale	2 50 14 96 ad 18 31 20 2	2 52 66 162 180 211 231 233	Top soil Red clay Blue clay Sand Blue clay Blue clay, some lime Sandy blue clay Coarse-grained sand Clay	3 10 7 2 23 88 10 42 3	3 13 20 22 45 133 143 185 188
Well 3	12		City of Lake Jackson No	. 4, 9½ mil	es
Defense Plant Corp. No northwest of Velasco. Black surface soil Clay Brown sand	2 2 32 23	les 2 34 57	Red clay Clay and sand Sand and gravel Clay	37 108 34 11	37 145 179 190
Blue and red shale Sand (fair) Sticky shale Sand and gravel Sticky shale	118 15 10 30 4	175 190 200 230 234	Well 34 City of Lake Jackson No Jackson.	.6 . 3, in Lak	ē
			Surface material Shale Sand	23 147 32	23 170 202

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	Thicknes	s Depth		Thicknes:	s Depth (feet)
	(leet)	(Ieet)	1	(1000)	(1660)
Well	347		Well 352, partia	<u>l log</u>	
Oity of Lake Jackson No Jackson.	o. 2, in L	ake	The Texas Co., on Cochra lease, 7 miles northwest	an and McC t of Velas	lure co.
Black soil	3	3	Brown clay	20	20
Clav	.82	35	White sand	7	27
Fine-grained sand	25	60	Brown clay	33	60
Clav. few sand breaks	104	164	Dark sand	15	75
Good sand	16	180	Dark clay	55	130
Sticky shale	24	204	White sand	16	146
Sand and gravel	26	230	Brown clay	26	172
Sticky shale	4	234	Sand	14	186
SUICKY SHALE	· 1		Clar	50	245
			White and black sand	21	266
	9 / Q		Ded alor		200
MEIT	2.40		Red clay	77	300
	- 1 8 - T	o 1-o	Diala and boulders	00	410
City of Lake Jackson N	o. 1, in 1	ake	Pink gumbo	22	440
Jackson.			Chalk rock	72	512
	-	-	Sand and boulders	144	656
Surface soil	5	5	Blue gumbo	49	705
Clay	27	32	Sticky shale	23	728
Fine-grained sand	25	57	Packed sand	· 36	764
Clay-few small sandy b	reaks102	159	Blue gumbo	154 ;	918
Sand-good	20	179	Packed sand	22	940
Clay	16	195	Brown clay and gumbo	176	1116
		1	Red sand	21	1137
			Pink gumbo	34	1171
Well	350		Blue gumbo and shale	177	1348
Mrs. R. E. L. Stringfe	llow, 6 ^늘 m	iles	TUTAL DEPTH	,	2000
northwest of Velasco.	, - <u>~</u>				
0.0	7	1 7	Well 40-	4	,
Surface soll	ට 7 ෆ	, J	The Dem Chemical Co		0
Clay	37	40	The low chemical co., co	ore test 1	, o miles
Surface sand	3U	10	northwest of Angleton.		
Shale	60	130			<u> </u>
Saud	50	180	Silt	2	2
Shale	50	230	Black gumbo	2	4
Saud	13	243	Silt	4	8
Shale	102	345	Sandy clay	1	9
Sand	15	360	Black gumbo	4	13
Blue shale	105	465	Silt	2	15
Fine-grained sand	25	490	Sandy clay	4	19
Gray shale	47	537	Heavy red clay	9	28
Oyeber shells	38	575	Shale	2	30
Send	15	590	Unctuous clay	3	33
Gray shale	118	708	Shale	6	39
Sand	37	745	Unctuous clay	4	43
			Shale	14	57
			(Continued on ne:	xt page)	

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	Thic kn ess (feet)	Depth (feet)		Thicknes (feet)	s Dep th (feet)
Well 404c	ontinued	×	Well 406conti	nued	
Heavy red clay	8	65	Unctuous red clay	5	56
Shale	3	68	Heavy red clay	5	61
Heavy red clay	4	72	Sand	29	90
Sand	77	149	Unctuous red clay	4	94
Sandy clay	6	155	Red clay and fine gravel	3	97
Sand	13	168	Sand	3	100
Heavy red clay	44	216	Sandy clay	7	107
Light blue clay	2	218	Silt	2	109
Red clay and fine gr	avel 9	227	Shale	1	110
Light blue clay	21	248	Light blue clay	8	119
Gray clay	19	267	Shale	2	120
Sand	27	294	Sandy clay	10 :	130
Light blue clay	6	300	Sand	34	164
•			Heavy red clay	3	167
			Light blue clay	3 {	170
Well	405		Shale	10	180
agging parate			Sand	25	205
The Dow Chemical Co.	. core test 5	. 8	Shale	3	208
miles northwest of A	ngleton.	/	Sand	2	210
	0 -		Shale	2	212
Silt	19	19	Light blue clay	2 ¦	214
Sand	43	62	Heavy red clay	2	216
Fine gravel	30	92	Light blue clay	1	217
Sand	25	117	Unctuous red clay	4	221
Fine gravel	4	121	Shale	9	230
Sard	29	150	Light blue clay	5	235
Heavy red clay	14	164	Sandy black sumbo	4	239
Sand	8	176	Unctuous red clay	6	245
Hoswy red clay	23	199	Light blue clay	5	250
cil+	8	207	Sandy clay	4	254
Hoomer mod alore	3	210	Unations red alar	6	260
It at him alor	18	228	sil+	4	264
Light blue clay	10	237	Gwar alar	6	270
	27	261	Light blue shale	8	278
Heavy Fou clay	10	283	Shale	3	281
Light blue clay	10	300	Sand	19 !	300
5110	۲۲ <u>۱</u>			10 1	
Well	406		Wəll 408		
				-	
The Dow Chemical Co. miles northwest of A	, core test l ngleton.	1,8	Texas Pipe Line Co., 8 m Angleton.	iles nor	th of
	72	2	Surfage sand	24	24
BIRCK GUMDO	י ט ר	о Л	Sand	16	40
Slit Waarna mad alara	Б 1 Т	4 0	Sholo	28	
Heavy rea clay	· 11	20	Gand	13	- יי
Unctuous red clay	11 I 27 -	41	Sand and shale	21	132
Heavy red clay	61	41 AE	Dana ana share		100
Unctuous red clay	4	40 57	Sund	44 51	110
Heavy red clay	6	5T	DURTE		661
	!		(wontinuea on nex	c page)	

	Thicknes	s Depth		Thicknes	s Depth
	(feet)	(feet)		(feet)	(feet)
Well 408 -	-continued		<u>Well 411 c</u>	continued	
Sand	12	239	Sand	14	512
Shale	226	465	Gumbo	16	528
Sand	55	520	Well deepened in Febru	ary, 1928	6 7
			Rotary to bottom of 10)-inch	
			well		529
Well 4	1 0		Clay	34	563
		•	Sand	35	5 98
Dr. B. W. Turner, 10	miles north	ı of	Clay	6	604
Angleton.			Sand	14	618
Cuerto do motorio 1	22	. 99	Gumbo	19	605
Shele	66 23	45	Send	00 Q	090
Sond	104	140	Gumbo	50	700 77 A7
Sanu Cholo	1.6	165	Sand	00 97	79/
Cond DIALO		181	Gumbo	20 20	808
Shale	197	308	I Sand	38	842
Sund	13	321	Gumbo	22	864
Shale	77	398	Sand	19	883
Send	16	414	Gumbo	3	886
Shale	74	488	Sand	33	919
Sand	26	514	Gumbo	4	923
Shale	118	632		-	
Sand	18	650			
Shale	115	765	Well 4	12	
Sa nd	3	768			
Shale	37	805	Arney Estate. 93 miles	north of	Angleton.
Sand	45	850	~		
Shale	28	878	Surface soil	22	22
Sand	40	918	Red clay	30	52
			Sand	10	62
			Clay	18	80
Well 4	411		Sand	15	95
			Clay	25	120
Dr. B. W. Turner, 10	miles north	n of	Sand	22	142
Angleton.			Clay	89	231
		:	Good sand	57	288
Rotary to ground	4	4	Clay	60	348
Cay	25	29	Sand-hard layers	25	373
Stand	2	31	Clay	11	384
Clay	12	43	Sand	26	410
Brind	74		Gumbo	52	462
CLAY	122	209	Sand	50 ;	530
Sand	77	210	Cond	50	500
Ulay	11	267		10 50	090
Gray water sand	113	440	Sand and hauldans	ی م	046 R19
Gundo cond	10	400	Sand and cley	16	040 863
Course sand	10	400	Clay	10 70 1	505 607
∽umoo	12	730	Sand	97 ·	724
			(Continued on ne	axt nagel	144
			(source on ne	La hareal	

	Thickne (feet)	ss Depth		Thicknes (feet)	s Depth
Well 412	continued		Well	416	(1990)
	20	763	Humble Oil and Badin		 .
Gumbo	25	788	Moller leave 10 mil	ing co., on	W. A.
Sand	~ 22	810	Angleton	es northeast	01
Clay	30	840	MIG10001.		
Sand Sandyr shale	30	870	Clay	77	1 17
Sandy Share	80	950	Sand	. 1/	17
	6	956	Shale	45	20
Citay	20	976	Sand	±0 67	120
Sand Plue shele	40	1016	Shale	00	100
Sand	18	1010	Sandy shale	99	227
Danu Dina mumba	12	1046	Shale	40 11	675
Blue gumbo	100	1168	Sand	11	. 600
Sand	166	1100	Sholo	46	308
		·	Shale	3	311
Well 4	13			A1 77	
Humble Oil and Refini:	ng Co., on	В.		411	
Blakely lease, 9 miles	s northeast	of	Humble Oil and Refining Co., on B.		
Angleton.		Ļ	Blakely D lease, 95 r	niles northe	astof
		;	Angleton.		
Surface material	25	25			
Clav	35	60	Surface	24	24
Sand	32	92	Sand and shale	21	45
Shale	6	98 1	Shale	42	87
Sand	15	113	Sand	15	102
Shale	7	120	Shale	94	196
Send	30	150	Sand and shale	20	216
Shale	33	183	Shale	56	272
Send	15	198	Sand	43	315
Sand	72	270	Dand	±0 !	010
Sand	42	312	 	9	
	:		Well	418	
Well 4	4		Humble Oil and Refini	ing Co on	В.
م من سر مراجع روم بر روم می مراجع روم بر روم می مراجع روم بر روم می ورم می مراجع روم می مراجع روم می مراجع روم			Blakely D lease, 9 m	iles northea	st of
Humble Oil and Refinin	ng Co., on	В.	Angleton.		
Blakely B lease, 9 mi	les northe	st of	-		
Angleton.		11	Surface material	23	23
5	: 1		Sand	23	46
Surface material	25	25	Shale	90	156
Shale	55	80	Sand	25	131
Sand	28	108	Shale	100	281
Shale	14	122	Sand	9	290
Sand	24	146	Shale	43	333
Shale	81	227	Sand and shale	23	356
Se mì	23	250	Shale	54	410
UN LEU		200	Sand	14	424
		[]	Shale	65	489
			Sand	25	514
			Uana .	20 1	VI .1
		11			

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Table of drillers' logs, Brazoria County -- Continued

	Thicknes	s Depth		Thicknes	s Depth
	(leet)	(Idet)		(1660)	(1960)
Well 419			Well 422 -	-continued	
Humble Oil and Pefining (Co., on W	V. L.	Surface material	24	24
Clayton lease. 8늘 miles n	northeast	of	Shale	44	68
Angleton.			Sand	43	111
5			Shale	89	200
Surface material	26	26	Sand and shale	109	309
Shale	21	47	Sand	46	355
Sand and shale	44	91			
Shale	43	134			
Sand and shale	22	156	Well	425	
Shale	107	263			
Sand and shale	25	288	J. M. Skrabanek, 7 m	iles northe	east of
Shale	97	385	Angleton.		
Send	37	422			
Janu	01	100	Clay	67	67
			Fine-grained sand	25	92
พเค11 420			Sand	30	122
Well 420			Clav	53	175
The labor of the second production of the second production of the second		Cohmidt	Sand	10	185
			Clev	5	190
lease, 9 miles northeast	OI Angle	ston.	Sand	6	196
	07		Clav	71	267
Surface material	23	20	Sandy clay	26	293
Shale	67	90	Gumbo	100	102
Sand	8	98	Soft shale	1 95 ; 2 4 ³	4 <i>5</i> 2
Shale	103	201	Gumbo	150	666
Sand	8	209	Sand	23	689
Shale	202	411	Gumbo	44	733
Sand	30	441	Sand	29	761
		: 	Gumbo	20	765
			Sand	4	700
<u>Well 421</u>			Sanu	10	//±
			Good sand	68	262
Humble Oil and Refining	Co., on (. Dvorsky	Cumbe	17	965
lease, 10 miles northeast	t of Angl	leton,	Gand	10	000
		i	Gumba	9	0/4
Surface material	23	23		10	940 050
Shale	-22	45	Sand	10	900
Sand	67	112	Gumbo	2	900
Shale	28	140			
Sand	22	162		170	
Shale	64	226	Well 4	100	
Sandy shale	24	250			
Shale	24	274	Texas Agricultural E	rp. Sta., 3	miles
Sand	35	309	northeast of Angletor	1.	
			Gumbo	28	28
Well 422			Fine-grained sand	1	29
	•		Gumbo and shale	91	120
Humble Oil and Refining	Co., on S	South	Fine-grained sand	10	130
Texas Rice Prod. Co. leas	se, 10 ¹ / ₂ 1	niles	Gumbo	10	140
northeast of Angleton.			Shale	6	146
0			Gontinued on	next page))

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	Thickness (feet)	s Depth (feet)		Thicknes (feet)	s Depth (feet)
Well 430co	ntinued		Well_430	8	
Gumbo Sandy shale Medium-grained sand	14 40 10	160 200 210	Humble Oil and Refining and Taylor lease, $2\frac{3}{4}$ minimized Angleton.	g Co., on iles north	Galaznick west of
Hard tough gumbo Fine-grained sand Medium-grained sand an shells Tough gumbo	70 15 nd 19 10	280 295 314 324	Surface material Sand and shale Sandy shale Sand and shale	25 196 42 347	25 221 263 610
Well	432		Sandy shale Sand and shale Shale	6 186 5	616 802 807
Humble Oil and Refinin Mettler lease, 4 miles	ng Co., òn M s north of A	M. W. Angleton.	Well 4 Humble Oil and Refinin Mettler lease,22 miles no	39 g Co., on rthwest of	northwest Angleton
Surface material Sand Shale Sand Shale Sand Shale Sand Shale Sand Shale Sand Shale Sand	23 30 120 21 48 8 6 5 119 21 159 22 3 3 3	23 53 173 194 242 250 256 261 380 401 560 582 585 618	Surface clay Sand Shale Sand Shale Sand Shale Sand Shale Shale <u>Well 442, pa</u> Zoinville Oil Co., on .	23 57 75 15 60 23 145 13 79 35 3 rtial log	23 80 155 170 230 253 398 411 590 625 628
Well 4	137		61 miles west of Angle	ton.	
Humble Oil and Refinin Carr lease, $2\frac{1}{2}$ miles n Angleton.	ng Co., on I northwest of	R. H. C'Argios	Surface soil Red clay Sand and gravel Gumbo	10 50 140 10	10 60 200 210
Surface material Shale	24 175	24 199	Gravel Blue shale	15 65	225 290
Sand Shale Sand Shale	21 226 4 149	220 446 450 599	Sandy gumbo Blue shale and gumbo Sandy gumbo Gumbo	100 25 10 60	390 415 425 485
Sand Shale Sand	47 104 53	636 740 793	Hed gumbo Lime rock Gumbo and lime Sandy gumbo	43 12 50 33	528 540 590 623

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	Thickness (feet)	5 Depth (feet)		Thicknes (feet)	s Depth (feet)
Well 442, partial log	contir	nued	Well 455 60	ntinued	
Sandy blue shale	33	656	Shale	31	448
Gumbo and lime	59	715	Sand	5	453
Artesian water sand	60	775	Shale	83	536
Gumbo and lime	20	795	Sand	4	540
Blue sandy lime	55	850	Shale	110	650
Brown shale	24	874	Sandy shale	27	677
Hard lime	14	888	Shale	54	731
Gumbo and boulders	20	908	Sand	18	749
Ped gumbo	10	918	Shale	31	780
Lime rock	6	924	Sand	4	784
Gumbo	5	929	Shale	41	825
Water sand	136	1065	Sand	17	842
Gumbo	8	1073	Shale	29	871
Sand and boulders	7	1080	Sand	4	875
Gumbo and boulders	8	1088	Shale	41	916
Hard sand	27	1115	Sand	. 74	990
Sandy gumbo	29	1144	Shale	10	1000
Rock	6	1150		×	
Sand and boulders	56	1206			<u>,</u>
Hard sandy lime	31	1237	Well 45	6	
Gumbo	6	1243			
Sand	יין ד	1254	City of Angleton No. 3	. in Angle	eton.
Hard sand and boulders	31	1285		,	•
Gumbo and boulders	30	1315	Soil	8	: 8
Sand and boulders	33	1348	Sand	52 .	60
Gumba	3	1351	Clay	23	83
Sendu lime and houlders	44	1395	Streaks of sand and cl	av 105	188
Gumbo	6	1401	Clav	17	205
Selty cend	19	1420	Sand	19	224
Cimba	18	1438	Clay, streaks of mealy		
	10	3160	clay	78	302
IOIAL DEFIN		0100	Clav	31	333
			Mealy clay	22	355
141011 455		1	Clay	38	393
Well 455	-		Broken clay and sand	112	505
Otto and Annalation Mar 2 da			Sond streeks of alay	83	588
City of Angleton No. 2, 1	n Angleto	on.	Clow	70	658
~]			Cand lawara of alay	70	728
Clay	10	67	Fine-rmined send	24	752
Sand	40	00	Clow	21	773
Shale	20	120	Sand lavers of clay	26	799
Sand	32	120	Clay	26	825
Snale	40	100	Sand	18	843
Sana	10	215	Clav	30	873
Shale	42	210	Broken sand and clay	39	912
Sana	10	200	Sand	22	934
Shale	123	000	Clay	41	975
Sand	2	355	Sand lavers of clay	27	1002
Shale	41	396	Clav	10	1012
	21				

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	Thicknes (feet)	s Depth (feet)		Thickne (feet)	ss De (1
Well	457		Well 458 -	continue	ed
City of Angleton No. 4	, in Angle	eton.	Fine-grained sand	55	12
			Gumbo and shale	207	33
Clay	11	11	Sand rock	14	34
Sand and layers clay	47	58	Gumbo	33	38
Clay	26	84	Sand rock	25	40'
Sand and layers clay	28	112	Gumbo and shale	54	46
Clay	56	; 168	Sand rock	26	481
Sand	4	172	Gumbo	27	514
Clay and sandy clay	37	209	Rock	1	515
Sand	11	220	Gumbo	212	727
Hard clay and layers			Packed sand	41	768
sandy clay	117	337	Gumbo	34	802
Shaly sand	8	345	Sand rock	12	814
Clay	49	394	Clay	2	816
Sand	16	410	Sand and sand rock	89	905
Clay	10	420	Gumbo	6	911
Sand	3	423			
Clay	21	444			
Sand	6	450	Wel	1 460	
Clay and sandy clay	80	; 530			
Broken sand	8	538	L. H. Follett, 5 mil	es southe	ast of
Clay	40	578	Angleton.		
Clay and sandy clay	50	628	_		•
Sandy clay	12	640	Surface soil	25	25
Sand and shale breaks	44	684	Sand	6	31
Clay	23	707	Shale	9	40
Sand	4	711	Sand	8	48
Clay	18	; 729	Sha le	26	74
Sand	16	745	Sand	7	81
Clay	23	768	Shale	19	100
Sandy clay	7	775	Sand	8	108
Sand	4	779	Shale	12	120
Clay and layers sand	23 ·	802	Sand and shale	15	135
Sand	7	809	Shale	73	208
Clay	9	818	Sand	5	213
Fine-grained sand	19	837	Shale	65	278
Tough clay	35	872	Sand	23	301
Sand	2	874			
Tough' clay	27	901			
Sand	28	929	Well 465, 1	partial lo	g
Ciay	4	933			
			Rapid City Dev. Co.,	7 miles	east o
			Angleton.		
Well	458				1
			Surface clay	23	23
Pratt well, 4 miles eas	st of Angl	.eton.	Soft water sand	28	51
	:		Clay	244	295
Soil and clay	73	73	Red gumbo	30	325
	:		Sand and gravel	27	352
		1	Hard gumbo	125	477
		:	(Continued on n	ext page)	

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••••••••••••••••••••••••••••••••••••••	Thicknes	s Depth	Thickness Depth						
	(leet)	(leet)							
Well 465, partie	al log	continued	Freeport Sulphur Co. No. 19, 102 miles						
			least of Angleton.	· •					
Sand	45	522	Surface soil	9	: 9				
Gumbo	78	600	Clay	37	46				
Sand and boulders	37	637	Sand	12	58				
Gumbo	15	652	Clay and gumbo	51	109				
Sand and boulders	41	693	Sand	40	149				
Gumbo	58	751	Clay and gumbo	51	200				
Hard packed sand	150	901	Sand	48	248				
Gumbo	59	; 960	Clay and gumbo	37	285				
Sand and boulders	34	994	Shale and sand	31	316				
Tough gumbo	28	1022	Gumbo	29	345				
Hard sand	12	1034	Shale and sand	8	353				
Gumbo	160	; 1194	Gumbo	4	357				
Sand	3	1197	Shale	56	413				
Gummy shale	46	1243	Sand	11	424				
Sand	3	1246	Sand and shale	54	478				
Gumbo	17	1263	Clav	63	541				
TOTAL DEPTH		6284	Sand	69	610				
		1	Gumbo	4	614				
۵٬۰۰٬۰۰٬۰۰٬۰۰٬۰۰٬۰۰٬۰۰٬۰۰٬۰۰٬۰۰٬۰۰٬۰۰٬۰۰									
We	11 466								
			Well	471					
C. M. Lemons. 7 mile	s east of	Angleton.							
,		-	Freeport Sulphur Co.	No. 22.	10 <mark>늘</mark> miles				
Clay	69	69	east of Angleton.		~				
Sand	61	130							
Clay	7	137	Surface clay	26	26				
Sand	12	149	Sand	18	42				
Clav and gumbo	97	246	Shale	6	48				
Sand	13	259	Gumbo	4	52				
Clav and gumbo	70	329	Shale	6	58				
Sand	21	350	Gumbo	12	70				
Clay and mumbo	30	381	Shale	4	74				
Sand	27	408	Gumbo	15	89				
Clav	49	457	Sand fine-grained	69	158				
Sand	32	489	Gumbo	37	195				
Book	2	491	Sand coarse-grained	45	240				
Gumbo	104	595	Gumbo	10	250				
No record	507	664	Shale	10	262				
Sandy clay	61 61	725	Gumbo	16	278				
Sand Sand	10 1	769	Shele	10	205				
Coft alex	- 40 - 79	800	Sand	י 2	200				
Cond Dotto Gray	27	837	Sand and shale	0 A 0	215				
	ວເ ອ	1 930	Cumbo	40 1 E	040 760				
DIUE CIAY	6	003	Gumbo	10	300				
Sand	60	905	Sana	41	401				
Gumbo	б	911	Snale with streaks of	7 07	F70				
			sand and gumbo	131	532				
			(Gontinued or	n next pag	ge)				

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an an an an Anna an An	Thicknes	s Denth		Thicknes	s Depth
	(feet)	(feet)		(feet)	(feet)
Well 471 cont	inued		Well	522	
Gumbo	14	546	C. Martin, $11\frac{1}{2}$ miles	west of Al	vin.
Sand	5 0	551			
Gumoo Shala	10	570	Clay	115	115
Gumbo	16	586	Sand	29	144
Fine-grained sand	37	623	Con man and	65	126
Gumbo	5	628	Clar	1	420
			Sand	33	463
			Clay	43	506
Well 47	3		Good sand	55	561
		_	Clay	156	717
Freeport Sulphur Co. N	10.24,1	0늘 miles	Sand	22	739
east of Angleton.			Gumbo	72	811
-		1	Sand	11	822
Clay and sand	52	52	Gumbo	36	858
Shale	11	63	Good sand	4 6	904
Gumbo	17	80	Gumb o	2	906
Shale	3	83			
Gumbo	45	128			<u></u>
Sand, fine-grained	33	161	Well	526	
Gumbo	19	180			
Tough gumbo	9	189	Humble Oil and Refin	ing Co., on	R. L.
Sand, coarse-grained	51	240	Colley lease, 2 [±] / ₂ mil	es southwest	t of Alvin
Gumbo	5	245		- i	_
	والمراجعة والمتحد وتبرؤني المحمول	<u></u>	Surface material	24	24
	75		Sand	21	45
Merr 4/			Shale Gand	77	122
Freenant Sulphur Co. t	est no.	4. 10금	Sand Shalo	157	302
miles east of Angletor		-,2	Sand	10	312
miles out of mereser	- •		Sanu Shale	10	392
Clev	18	18	Fina-cmined send	22	344
Sand	36	54	Shale	274	628
Clav	39	93	Sand	38	666
Shale	20	113			
Sand	47	160			
('.ay	38	198	Well	531	
Sand	32	230			
Clay	2	232	City of Alvin No. 2.	in Al v in.	
Sand	9	241			
Shale	147	388	Soil	4	4
Sand	25	413	Clay	16	20
Shale	19	432	Sand and muck	49	69
Sand	10	442	Clay	6	75 ·
Shale	27	409	Sand	14	89
Sand	ีย 51	1 4/4 525	Clay	46	135
Shale and cumbo	46	571	Sand	25	100
Sand	-10	576	Clay	·/	107
Gumbo	53	629	Sana	20	190
Sand	4	633	(Continued a	co n nort no co	010
Gumbo	120	· 753	(continued o	n next page	/

	Thicknes (feet)	s Depth		Thickness (feet)	Depth (feet)
	(1880)	(1660)		(1000)	(1000)
Well 531	-continued		Well	537 continued	х.
Sand	17 ÷	235	Sand	9	263
Clav	38	273	Shale	58	321
Shale	30 ¹	303	Sand	9	330
Shale and sand	23	326	Shale	111	441
Tough clay	64	390	Sand	32	473
Sand and shale	16	406			
Clav	13	419			
Sandy shale	23	441		Well 544	
Tough clay	149	590			
Sand	125	715	W. G. Simpson.	10 miles southwest	of Alvin
Clav	7	722	, i i i i i i i i i i i i i i i i i i i		
			Surface materia	1 10	10
			Sand and shale	175	185
Well	532		Sticky shale	20	205
110			Sand	5	210
Santa Fe Py Co. in /	Alwin.		Shale	5	215
Sanda 10 hy. Co., In I	• - • + • •		Sand	70	285
Clay	19	19	Shale	25	310
Vallow sand	38	57	Sand	35	445
Sandar alar	50	115	Shele	5,	450
Sandy cray	12	127	Sond	15	400
	16	101	Sanu	15	400
Sand - Iew breaks of	clay 57	104	Snale	10	460
Clay	7	191	Sand	20	500
			Sticky shale	25	525
	68 0		Sand	10	535
Well	533		Shale	10	545
			Sand	20	565
Phillips Petroleum Co	., 2 miles	south of	Sha Le	5	570
Alvin.			Sand	10	580
		1.00	Sticky shale	50	630
Clay and quicksand	128	128	Sand	70	700
Water-bearing sand	28	156			
				Well 559	
Well	537				
			Dr. E. W. K. An	drau, 6 miles sout	heast
Humble Oil and Refini:	ng Co., on	Hubba rd	of Alvin.		
lease, 6 miles southw	est of Alvi	n.		;	
			Surface soil	7	7
Surface material	25	25	Red clay	23	30
Sand	10 ¦	35	Sand and clay la	ayers 45	75
Shale	73	108	Tough clay	16	91
Sand	6	114	Hard sand and l	ayers shell 31	122
Shale	7	121	Sandy clay	16	138
Sand	5	126	Tough clay	45	183
Shale	34	160	Sand and clay 1	ayers 15	198
Sand	3	163	Clay	15	213
Shale	51	214	Sand and lavers	of clay 10	223
Sand	8	222	Tough clav	8	231
Shale	32	254	Sandy clav	11	242
V110 1 V		~~ 1	(Contin	ued on next page)	
			· · · · · · · · · · · · · · · · · · ·	1 0.7	

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 I	hicknes	s Depth		Thickness	Depth
	(feet)	(feet)		(feet)	(feet)
<u>Well 559cor</u>	ntinued		Well 56	9	
Sand and clay layers	26	268	Humble Oil and Refining	; Co., 14 m	iles
Clay	54	322	southeast of Alvin.	•	
Fine-grained muddy sand	22	344		1	
Sand and clay layers	149	493	Surface sand and clay	24	24
Hard blue shale	15	508	Sand and shale	22	46
Sandy shale	10	518	Shale	23	89
Tough blue shale	100	61.8	Sand	23	112
Fine-grained sand	30	648	Shale	196	308
Tough blue shale	65	713	Sand and shale	22	330
Sand	12	725	Shale	150	480
Hard shale	15	740	Sand	77	557
Sand	9	749			
Shale	3	752			
Sand	33	785	Well 57	1	
Tough shale	17	802			
Shale and streaks of sand	12	814	Humble Oil and Refining	Co., 16 m	iles
Brittle shale	76	89 0	southeast of Alvin,	-,	
Sand	16	906			
Brittle shale	8	914	Surface material	22	22
Sandy shale	16	930	Sand	14	36
Shale	10	940	Shale	64	100
Sand	19	959	Sand	12	112
Shale	57	1016	Shale	363 ¦	475
Fine-grained gray sand	22	1038	Sand	8	483
Loose shale and layers			Shale	277	760
of fine-grained sand	70	1108	Sand	10	770
Sand	5	1113	Shale	11	781
Shale	11	1124	Sand	9	790
Sand	6	1130	Sandy shale	9	799
Shale	6	1136	Shale	6	805
Sønd	42	1178	Sandy shale	15	820
Shale	7	1185	Shale	46	866
			Sand	10 ¦	876
			Broken sand and shale	62	938
Well 564			Sand	35	973
The Texas Co., on Weiting	lease,	7 <mark>1</mark> miles			
southeast of Alvin.			Well 57	2	-
Serface material	25	25	The Texas Co on Sweet	lease. 16	<mark>늘</mark> miles
	66	91	southeast of Alvin.	- · · · · ·	~
Sind and shale	132	223		• .	
Stale	155	378	Soft brown soil	1	1
Sand and shale	21	399	Stiff yellow clay and li	ime 13	14
Shale	65	464	Shell, sand and clay wi	th	
Sand and shale	22	486	salt water	12	26
Sand	22	508	Blue clay and shell	68	94
Cond and shale	21	529	Gray sand, shell and gra	avel	
Shale	86	615	with fresh water	32	126
Sand	69	684	Soft blue gumbo	81	207
	•		(Continued on next	page)	
			1		

	Thicknes	s Depth	• [/	Thickness	Depth
	(feet)	(feet)		(feet)	(feet
Well 572con	tinued		Well 613	continued	
Sand, gravel and clay	34	241	Blue clay	130	336
Brown and blue sumbo	140	381	Joint clav	20	356
Soft gumbo and shell	88	469	Coarse sand	15	371
Blue-grav-brown gumbo	258	727	Blue clay	90	461
Blue shale and shell	24	751	Artesian sand	46	507
ough gumbo	11	762			;
Sand shell and sticky	**				
chale	129	891	We	11 621	
Shale sandur shale	56	947			
Shole cand awarel and		1 011	Cecil Brown 44 mil	es southeest	of
shall	77	1024	Dearland	ob bouthoabt	01
SHELT	77	1024	i cai ianu.		
Sray sand and shell	41	1000	Botomy to sumfage	z	3
	67	1200	I Soil	0 9	5
Brown sandy gumbo	67 70	1209	Dod alar	د ۲5	40
Shale, sand and gravel	20	; 1247	Red Clay	5	40
Gumbo	14	1201	Red Sand	16	01
Blue-gray sandy shale	126	1387	Clay	-±0 12	91
		·		5	00
			Gand	12	111
Well 6	508		Sand Gloss	103	214
		43	Fine amained and	37	251
The Texas Co., on Morri	son leas	4^{-}_{4}	Fine-grained sand	66	317
miles southwest of Pear	land.		l Clay	20	346
	01	i ol	Sand	87	433
Derrick floor		42	Guildo	07	442
Clay	1872	190	Sand	Э Л	446
Sand	16	206	Gumbo	יד ארו	560
Shale	187	393	Good sand	114	: 000
Sandy shale	23	416			
Shale	46	462			
Sandy shale	22	484	We	11 622	
Fine-grained sand	22	506			
Shale	33	539	Humble Oil and Refi	.ning Co., C.	Brown
Medium coarse-grained		1	lease, $4\frac{3}{4}$ miles sou	theast of Pe	arland,
sand	93	632			;
			Surface material	66	; 66
**************************************			Sand	10	76
Well 6	513		Shale	377	453
			Sand	39	492
Santa Fe Ry. Co., in Pe	earland.		Shale	3	495
Soil	12	12			
Fine sand	8	20	We We	624	
Yellow clay	60	; 80		• •	
Fine sand	12	92	Humble Oil and Refi	ning Co., or	Ford
Red clay	70	162	lease, 4袁 miles sou	theast of Pe	arland,
Blue clay	40	202			
Fine sand	4	206	Surface sand and cl	ay 110 on next page)	110

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<u> </u>	hicknes	Depth		Thicknes	s Depth
	(ieet)	(leet)		(1990)	(1980)
Well 624 con	tinued		Well 640)	
Sand	10 ′	120	The Texas Co., on Belcher	· B. lease	э, б
Shale	90	210	miles southwest of Pearla	.nd,	
Sand	30	240		_	_
Shale	65	; 305	Derrick floor	9	9
Sand and shale	50	355	Clay	18	27
Shale	114	469	Sand	12	. 39
Sand-white medium coarse	46	515	Clay	70	109
Shale	1	516	Sand	15	124
			Clay	80	204
			Sand and boulders	71	275
Well 62	8		Clay	90	365
			Sand and boulders	70	435
Stanolind Oil and Gas Co	., on Ra	ndall	Clay and sand	165	600
lease, 5 miles southeast	of Pear	land.	Sand and boulders	70	670
·			Clay	30	700
Black soil	2	2	Sand and boulders	99	799
Blue clay	13	15	Sand and clay	96	895
Red clay	78	93	Sand and boulders	29	924
Fine sand	4	97	Sand and clay	70	994
Clay	11	108	Sand and boulders	130	1124
Sandy shale	9	117	Gumbo	105	1229
Sand	12	129			
Clay	34	163			
Shale and sandy shale	103	270	Well 641	L	
Clay	23	293	· · · · · · · · · · · · · · · · · · ·		
Shale	45	338	The Texas Co., on Belcher	· B. lease	э, б
Sand	12	350	miles southwest of Pearla	ind 🗸	
Shale	66	416			
Shale and layers of sand	26	442	Surface material	20	20
Shale	11	453	Shale	65	85
Sand	10	463	Sand and shale	22	107
Shale	9	472	Sticky shale	73	180
Sand	46	518	Fine-grained brown sand	58	238
Shale	4	522	Shale	151	389
Sand	16	538	Fine-grained sand	26	415
		,	Shale	31	446
			Fine-grained sand	14	460
Well 63	0		Shale	190	650
			Fine-grained sand	25	675
Fumble Oil and Refining	Co on	Cannan	Shale	20	695
lease, 5 miles southeast	of Pear	land.	Fine-grained sand	18	713
		-	Shale	21	734
Clav	83	83	Sand - medium coarse-grai	ined 40	774
Shale	21	104	Shale	2	776
Sandy shale	108	212			
Shale	98	310			
Sand	62	372			
Shale	38	410			

Thickness Depth Thickness Depth (feet) (feet) (feet) (feet) Well 644 Well 646 -- continued The Texas Co. No. 2, $5\frac{1}{2}$ miles southwest Shale 26 339 of Pearland. Sand 349 10 Shale 93 442 Clay 7 7 Sand 450 8 Sand 27 34 Shale 122 572 Shale 58 92 Sand 44 618 Sand 22 114 Shale 50 164 Sand 26 190 Well 647 Shale 4 194 The Texas Pipe Line Co., 6 miles southwest of Pearland. Well 645 Surface material 23 23 The Texas Co. No. 3, $5\frac{1}{2}$ miles southwest Sand 5 28 of Pearland. Shale 46 74 Sand 5 79 Clay 15 15 21 Shale 100 Sand 10 25 Sand 30 130 Shale 59 84 Shale 35 165 Sand 12 96 Sand 38 203 Shale 56 152 Shale 59 262 Sand 42 194 Sand 6 268 Shale 1 195 Shale 40 308 Sand 30 338 Shale 2 440 Well 646 Sandy shale 23 463 Shell 130 593 The Texas Co. No. 4, 52 miles southwest Sand 16 609 of Pearland. Shale 48 657 Sand 24 681 Surface material Shale 12 12 52 733 Sand 18 30 Sand 25 758 Shale 20 Shale 50 10 768 Sand 9 59 Sand 44 812 Shale 44 93 19 Sand 112 Shale 34146 43 Sand 189 Shale 55 244Sand and shale 12 256 Sand 12 268 Shale 27 295 Sand 18 313

Table of drillers' logs, Brazoria County -- Continued

Partial analyses of water from wells and springs in Brazoria County, Texas

Analyzed by	the	U. S.	Geological	Survey	, Austin,	Texas,	under	the dir	ectic	on of	W.	W. H	astings,	District	Chemist.
Results are	in p	arts	per million	. Well	numbers	correspo	nd to	numbers	in t	able	of '	well	records.		

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	I	Depth				1	1								-
Well	Owner	of	Date	\mathbf{of}	Dissolved	Cal-	Magne-	Sodium and	Bicar-	Sul-	Chlo-	Fluor-	Ni-	Total	
		well	collec	tion	solids	cium	sium	Potassium	bonate	fate	ride	ide	trate	hardness	
		(ft.)	001100	• • • • • •	0.22400	(Ca)	(Mg)	(Na + K)	(HCO_{2})	(SO_1)	(c_1)	(F)	(NO_{2})	es Caco.	
		(100)			<u> </u>	(04)	(<u>s</u> /	(1	(004)			(103)	60 00003	
2	Lutman Lumber Co.	110	Oct. 12	, 1936	547	68	18	123	372	29	126	-	-	246	
3	A. R. Eversole	110	do	•	650	•••	-		458	31	148		-		
4	W. M. Terry	130	do	•	361	-	-	-	98	15	166	-	-	_	
5	Sinclair Refining Co	. 102	Nov. 8	, 1946	-	-	<u> </u>	-	472	53	460	-	1.0	<u>b</u> /473	
6	Antone Bosak	60	Nov. 6	, 1936	614	-	-	-	592	27	58		-	-	
7	A. L. Bennett	190	do	•	574	-	-	-	342	a/	188	-	_	-	
8	Mrs. Kitty Nash	150	Nov. 9	, 1936	284	-	-	-	214	a./	70	-		-	
9	do.	138	do	•	· 308	-	-	-	238	a/	72	-	-	-	
10	Mrs. R. L. Nash	250	do	•	426	-	-	-	329	a/	100	-			
11	Mrs. Kitty Nash	110	do	•	634	92	23	129	439	a/	174	-	-	324	
12	A. Bertram	53	do	•	459	-	-	-	415	a/	76	**	-		•
13	Geo. Tinsley	150	Nov. ó	, 1936	462	-	-	-	384	a/	94	-	-	_	90
15	R. N. Follard	30	Oct. 10	, 1936	524	-	-	-	439	23	84	-	-	-	I.
16	C. Matula	65	Oct. 12	, 1936	437	-	-	-	415	12	51		-	-	
17	R. R. Farmer	420	Oct. 21	, 1936	571	-	-		403	a/	154	-	-	_ '	
20	O. L. Hodge, Jr.	142	Oct. 23	, 1936	476	-	-	-	458	$\overline{a}/$	64		_	-	
21	Danciger Oil and		-												
	Refining Co.	585±	Nov. 7	, 1946	-	-	-		364	3	590	-	-	b/165	
22	do.	156	Oct. 23	1936	314	-		-	139	a/	102	· _	` —		
23	do.	585	Nov. 7	, 1946	_	-	-	-	306	-5	660	-	-	b/180	
24	do.	700+	Oct. 23	. 1936	1.237	29	12	447	323	a/	590	_		1 23	
25	do.	139	do	•	379	34	23	81	116	<u>ت</u> اي	134	-		179	
23	Humble Oil and	-27		•	217	24				2					
~~	Refining Co.	650+	- do		1.288	51.	16	1.35	31.2	8/	615		_	200	
27	do.	50%	Nov. 7	19/6	1.,		-		322	2 /5	630	_	_	b/174	
32		Spring	Oct. 23	1936	304	_	_	_	323	a/	25		_	<u> </u>	
22	B. N. Crouch	365	Oct. 21	1936	1.035	55	21	326	2~2	<u>عر</u>	1.80		_	223	
31.	do.	665	dr. LI	, <i>1</i> ,0	713	1/	~1	270	207	S al	22¢	_	_	~~~ 50	
24	ulfate less than 10 r	ante no	$\frac{u}{n m 11}$	<u>•</u>			1 1 2 2		<u>) 7 (</u>	<u> </u>	4.4.0 				
	latamined by each mot	had he	للمتحلقة المراجع	UII.		e	/ Analy	zea in Hiel	a by Sa	muel.	r. Tur	ner.			

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Determined by soap method.
 Analyzed by Curtis Laboratories.
 Analyzed in owner's laboratory.

Well	Owner	Depth of well	Date o collecti	of .on	Dissolved solids	Cal- cium	Magne- sium	Sodium and Potassium	Bicar- bonate	Sul- fate	Chlo- ride	Fluor- ide	Ni- trate	Total hardness
_		(ft.)				(Ca)	(Mg)	(Na + K)	(HCO_3)	(S04)	(31)	(F)	(NO3)	as CaCO3
35	R. R. Farmer, Jr.	- 60C±	Nov. 7,	1946	-	-	~	-	384	2	315	~	-	b/108
36	R. R. Farmer	60	Oct. 21,	1936	367	-	-	-	153	12	144	-	-	-
37	do.	613	• ch		682	~	-	-	384	a/	235	-		-
38	do.	100	do.		439	-	-	-	232	21	172		-	
39	V. G. Smith	37	do.		896	-	-	-	464	65	270		-	
40	F. L. Wise	320	Oct. 14,	1936	743	-	-	-	439	a/	245	-	-	. –
41	Texas Pipe Line Co.	610	Nov. 7,	1946	-	-	-	-	350	2	252	-		<u>b</u> / 90
42	J. A. Rogers	60	Oct. 14,	1936	592	-	-	-	454	15	180	-	-	-
43	F. N. Bullock	750±	്ാ.		865	27	10	307	31.7	<u>e</u> /	365	-	-	105
44	do.	762	Oct. 13,	1936	1,175	-	-	-	317	<u>a</u> /	585	-	-	-
45	do.	700 <u>+</u>	Oct. 14,	1936	870	-	~	-	470	a/	310	-		-
47	The Texas Co.	577	Oct. 12,	1936	591	27	11	196	323	12	186	-		112
47	do.	577	Nov. 7,	1946	-		-	-	295	2	194	-		<u>b</u> / 90
49	do.	524	do.		-	-	-	-	318	2	232	-	-	<u>b</u> / 84
50	Humble Oil and													
	Refining Co.	540	Oct. 13,	1936	455	26	10	49	311	15	202	-	-	106
52	E. J. Hagemeier	502	do.		664	-	-	-	275	12	270	-	-	-
53	T. M. Smith	495	do.		737	29	11	252	305	a/	295	-	-	117
54	City of West													
	Columbia No. 1	659	July 31,	1941	693	29	9.5	230	269	2	275	0.6	0.5	112
54	do.	659	Oct. 15,	1946	-	-	-	-	270	2	312		-	b/130
56	Glen Ogden	137	Nov. 6,	1946		-	-	-	503.	2	56	-	0.0	b/282
57	J. E. Huffman	373	do.			-	-		386	2	222		-	<u>Б</u> / 87
58	Humble Oil and		,		•									-
	Refining Co.	750±	Oct. 26,	1936	690	26	6	245	311	a/	260	-	-	89
59	do.	750+	do.		729	26	6	262	366	a/	255	-	-	89
60	T. M. Smith	692	Nov. 10,	1936	738		-	-	281	$\overline{a}/$	325	-	-	-
61	Dr. M. A. Weams	500±	do.		730	-	-	-	365	$\overline{a}/$	275	-	-	-
62	John Craig	635	do.		787		-	-	275	a/	360		-	-
63	East Columbia School	688	do.		858	43	12	281	268	ā/	390	-		158

Partial analyses of water from wells and springs in Brazoria County -- Continued Results are in parts per million

a/Sulfate less than 10 parts per million. b/ Determined by soap method. c/ Analyzed by Curtis Laboratories.

<u>d</u>/ Analyzed in owner's laboratory. <u>e</u>/ Analyzed in field by Samuel F. Turner.

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		\	1004.	10.5 9	فتنبله المشاهرة	pour de pour		- /11/		<u></u>					±
Well	Owner	Depth of well (ft.)	Da coll	ate c lecti	of .on	Dissolved solids	Cal- cium (Ca)	Magn:- sium (Mg)	Sodium and Potassium (Na + K)	Bicar- bonate (HCJ3)	Sul- fate (SO4)	Chlo- ride (Cl)	Fluor- ide (F)	Ni- trate (NO3)	Total hardness as CaCO ₃
<u>c/100</u>	Defense Plant Corp.	132-													
	test 1	142	Oct.	,	1942	941	91	31	121	498	4.5	145	-	-	355 ⁻
<u>c</u> /100	do.	302-				2.051	~~	•••		0/0	~ -			•	
1	_	311	Oct.	,	1942	1,354	75	30	337	263	0.5	585	-	-	310
<u>c</u> /100	do.	444-	<u> </u>		1010		~ .	00	100	0.01 [°]	~ .	(on (
(2.20	,	454	Oct.	,	1942	1,542	54	20	438	334	5.4	630	-	-	210
<u>c</u> /100	co.	697-			1010	1 000	20	00	601	250		0(0			050
100	Defense Dlant	707	Uct.	,	1942	1,973	70	20	504	209	4•1	900	~	-	258
10z	Derense Plant	741	2at	24	1012	150	øn	20	10	107	רר	16	\cap 2		276
102	Defense Plant	104	000.	و02	1943	47~	50	κÇ	45	407	<u>.</u>	40	0.5	-	510
105	Corr No 1	150	Feb		101.2	507	ga	33.	60	1.73	\$ 5	63	0.8	0.0	358
103	do	159	Oct	${28}$	101.3	569	03 03	32	78	475	11		0.3		365
101	Defense Plant	±))	000.	~0,	±94J)57	15	2~	70	477	لل ملد ا	()	0.)		101
104	Corp. No. 5	715		do.		1.544	72	23	1.52	294	7	711	0.6		273
105	Defense Plant	, _ /				-,//	1~	~)	42~	~)4	4				
>	Corp. No. 2	166		do.		511	101	26	55	491	7	46	0.2	_	356
106	Defense Plant							-			•	• -			223
	Corp. No. 4	169		do.		· 495	91	25	55	483	5	34	0.3	-	329
108		600-	+0ct.	26,	1936	1,510	_	-	-	336	a/	790	~	-	-
d/110	J.S.Abercrombie Co.	156	May	18,	1944	502	106	21	66	490	15	57	-	-	-
ā/111	do.	156	May	11,	1944	508	117	20	57	492	34	43	-	-	-
~ 116	do.	144	Nov.	6,	1946	-		-	_	484	8	84	-	0.0	b/321
121	R. R. Ramey	130	Oct.	26,	1936	559	54	26	133	397	23	128	-	-	241
122	A. K. Warters	175		do.		758		-	-	409	23	250	-	-	-
123	R. D. McDonald	500		do.		1,322	60	26	424	268	<u>a</u> /	680	-	-	256
124	Clyde McKinney	120		do.		477	43	35	101	415	a/	· 94	-	-	252

Partial analyses of water from wells and springs in Brazoria County -- Continued (Results are in parts per million)

a/ Sulfate less than 10 parts per million. b/ Determined by soap method. c/ Analyzed by Curtis Laboratories.

d/ Analyzed in owner's laboratory.

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e/ Analyzed in field by Samuel F. Turner.

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		Depth	1			D1 1	0.7	35		D .						
Well	Owner	of	Da	ite c		Dissolved	uar-	Magne-	Sodium and	Blcar-	Sul-	Chio-	Fluor	N1-	Total	
		well		lecti	lon	solids	cium	sium	Potassium	bonate	l'ate	ride	lde	trate	hardness	
		(ft.)	[(a)	(Mg)	(Na + K)	(HCO_3)	(S04)	(01)	(F)	(103)	as Caco3	
125	The Texas Co.	473	Nov.	4,	1946	-	-	-	-	255		880	-		b/318	
127	W. H. Burns	510	Nov.	15,	1936	1,434	-	-		231	a/	770	-	-		
128	Chas. Brewer	562	Oct.	15,	1936	1,496	-	-	-	281	a/	810	-	-	-	
129	A. J. Proebstle	850	Oct.	22,	1935	2,412	-	-	-	293	<u>a</u> /	1,390	-		-	
130	do.	125		do.		2,542	-	-	-	336	a	1,450	-	-	-	
131	J. O. Fossel	460	Nov.	15,	1936	1,214	-	-	-	397	15	555	-	-	-	
132	L. J. McNeill	40	Oct.	15,	1936	1,057		-		567	164	230	-	-	-	
133	J. S. Montgomery	85		do.		1,340	-	-	-	598	158	- 400		-	-	
134	M. H. Brigance	500	•	dò.		1,206	-	-	-	354	12	575	-	-	-	
135	Smith Bros. Gin Co.	822	Oct.	14,	1936	2,424			-	268	<u>a</u> /	1,410	-	-	-	
136	Brazoria Colored															
	School	125		do.		1,323	132	55	294	410	120	520	-		554	
137	Brazoria White															ł
	School	125		do.		625	73	27	138	531	54	72	-	-	292	9
138	Brazoria County	1,200+		do.		7,291	146	56	2,630	281	a/	4,320	-	-	595	•
139	Stranger Bros.	140	Oct.	15,	1936	684	-	-	-	512	54	120	-	-	-	1
140	J. S. Montgomery	150		do.		758	-	-	-	458	43	206		-	-	
141	R. Prel	126		do.		674	-	-	-	445	50	152	-		-	
142	H. C. Hayslip	494	Oct.	22,	1936	1,201		-	-	427	21	525	-	-	-	
143	Hinkle	57		do.		865		-	-	470	58	255	-	-	-	
144	Jefferson Lake															
	Sulphur Co.Inc.	746		do.		2,622	-	-	-	281	a/	1,530	-	-		
145	do.	500+	Mav	20.	1937	1.424	-	-	-	403	a/	700	-	-	-	
148	do.	500+	J	do.	-751	1.395	36	13	504	407	a/	645		-	143	
153	Texas Prison System	1				-3272	2	-2			<u> </u>					
-//	Clemens State Far	- m 253	Nov.	14.	1946		_		-	567	67	398		-	b/278	
155	S. S. Perry	1.000+	Oct	30.	1936	2.001	_	_	-	305	a/	1,120	-	-		
156		700+	Nov	19	1936	870	108	31.	190	586	20	230	-	-	411	
157	Kate Huntington	1.87	Oct.	30	1936	1,2/1		-		293	a/	540	~			
158	P. McNeill	505	Oct	22	1936	1 236	_	_	_	35/	<u>ي</u> اھ	605	-	_	~	
	lfate less than 10 r	$\frac{1}{1}$	ar mi	1110	<u>+ 7,70</u>			1/ Anal	vzed in own	eris la	horat	<u>.</u>				•

Partial analyses of water from wells and springs in Brazoria County -- Continued (Results are in parts per million),

a/ Sulfate less than 10 parts per m
 b/ Determined by soap method.
 c/ Analyzed by Curtis Laboratories.

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e/ Analyzed in field by Sanuel F. Turner.

	(Results are in parts per million)															
Well	Owner	Depth of well (ft.)	Da coll	te o: ecti	f on	Dissolved solids	Cal- cium (Ca)	Magne- sium (Mg)	Sodium and Potassium (Na + K)	Bicar- bonate (HCO ₃)	Sul- fate (SO ₄)	Chlo- ride (Cl)	Fluor- ide (F)	Ni- trate (NO ₃)	Total hardness as CaCO ₃	
159	W. Martin	535	May	18,	1937	696				372	<u>a</u> /	250		~		•
130	G. C. Davis	92	Nov.	19,	1936	1,212	-	-	-	293	85	545	-	-	-	
161	do.	40		do.		665	-	-		360	162	90	-	-	-	
162	M. N. Percy	500 <u>+</u>	May	18, 3	1937	1,403	~		-	281	a/	750	-	-	-	
163	Craig Estate	600 <u>+</u>		do.		717	13	5	274	397	a/	230	-	-	53	
200	J. L. Ducroz	542		do.		750	-	-	-	390	ā/	275	-	-	-	
201	T. J. Poole	590		do.		1,415	29	11	519	317	$\overline{a}/$	700	-	-	117	
202	do.	600		do.		1,364			-	329	a/	700	-	-		
203	do.	580		do.		852	-	-	-	. 390	a/	340		-	-	
204	do.	580		do.		790	-	-	-	372	<u>a</u> /	310	-	-	-	
206	J. T. Hinkle	560	May	19,	1937	812	16	6	307	372	a/	300	-	-	61	
207	do.	568		do.		774	-	-		372	a	300	-	-	-	
209	E. D. Pearson	485	Oct.	27,	1936	981	-	-	-	348	a/	445	-	-	-	
210	L. J. McNeill	700 <u>+</u>		do.		1,171		-	-	445	12	505	-	-	-	14
212	E. N. Krause	578		do.		910	-	-	-	366	a/	390	-	-	-	1
213	T. J. Poole	580		do.		1,344	-	-	-	641	15	510	-		-	
214	do.	580		do.		1,403	13	8	546	567	12	550		-	<u> 65</u>	
215	do.	618		do.		938	-		-	390	a/	395	-	-		
216	S. Allen	1,000	May	18,	1937	3,140	-	-	-	397	12	1,800	-	-	-	
217	Nelson Bell	600	Ûct.	27,	1936	1,400	-	-	-	671	15	530	-	-		
218	T. J. Poole	580	May	18,	1937	1,739	14	13	673	689	<u>a</u> /	700	-	-	88	
219	J. L. Ducroz	580	-	do.	•	1,660	16	13	638	695	16	635	-	-	93	
220	Mrs. R. E. L.					-										
	Stringfellow	208	July	11,	1941	764	48	24	228	512	10	202	-	0.3	218	
223	do.	215	•	do.		758	59	19	2146	585	11	155	-	0.0	176	
224	do.	250		do.		771	36	19	245	525	18	178	0.4	0.3	168	
225	do.	1,100 <u>+</u>		do.		2.820	-	-	-	274	2	1,620	-	-	-	
226	R.E.L.Stringfellow	√ 245		do.		1,483	_		443	590	97	535	-	0.0	b/375	
a7 Su	lfate less than 10	nartsn	er mil	lion		an ann a chuir an ann an an ann an an ann an an an an	ď	Analyz	ed in owne	r's lab	orato	rv.				-

Partial analyses of water from wells and springs in Brazoria County -- Continued

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b/ Determined by soap method. c/ Analyzed by Curtis Laboratories. lion.

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Weļl	Owner	of well (ft.)	Da coll	ate of Lection	Dissolved solids	Cal- cium (Ca)	Magne- sium (Mg)	Sodium and Potassium (Na + K)	Bicar- bonate (HCO3)	Sul- fate (SO4)	Chlo- ride (Cl)	Fluor- ide (F)	Ni- trate (NO3)	Total hardness as CaCO ₃	-
227	Mrs. R. E. L.														_
	Stringielle	212	July	11, 1941	910	47	2ó	282	530	31	262	-	0.5	224	
229	do.	215		do.	832	34	18	273	546	18	303	0.3	0.0	159	
232	U. S. Engineers	241	June	4, 1943	1,371	56	33	438	528	2	562	0.0	0.0	276	
300	do.	230		do.	1,315	46	29	433	520	2	530	0.0	0.0	234	
302	W. J. Bryan	570	Oct.	30, 1936	2,299	-	-	-	421	a/	1,250	-	-	-	
310	City of Freeport				•					—					
	No. 3	251		do.	814	20	12	302	610	a/	180	-		97	
311	City of Freeport	-													
	No. 4	250		do.	819	18	16	299	598	a	192	-	-	110	
312	City of Freeport									-					
	No. 5	250		do.	802	-	-	-	665	a/	164	-		-	
312	do.	250	June	20, 1941	808	21	12	291	624	_1	155	0.6	2.6	· 102	1
315	The Dow Chemical	-													C C
	Co. No. 2	265		do.	892	21	13	324	687	1	175		0.0	105	ł
318	The Dow Chemical														
2	Co. No. 1	241		do.	893	24	12	323	668	1	185	0.6	0.0	109	
/319	The Dow Chemical	·													
,,	Co. No. 10	1.137	July	17, 1945	5,092	98	38	1,680	280	-	2,630	-	-	-	
/321	The Dow Chemical		v					-			•				
	Co. No. 4	273	Aug.	3, 1940	1,062	22	13	376	570	-	265	-	-	_	
324		600+	Oct.	30, 1936	1,725	27	13	647	525	a/	780	-	-	123	
/325	C.H.Alexander. Jr.	.1.050	Apr.	14, 1931	_		-		_	3	3,500		-	600	
32	City of Velasco		•							-					
1-1	No. 2	255	Oct.	11. 1946	-	_		-	602	2	186	-	-	162	
228	City of Velasco		•												
ں غر	No. 1	266		do.	-		-	_	596	4	188	-	-	b/126	
- 121.7	City of Lake Jack	son							<i>,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					2	
941	No. 2	234	Feb.	14, 1944	-	83	37	193	419	35	282	-		-	
al Su	Ifate less than 10	parts pe	r mil	lion.				Analyzed	in owne	nlal	aborat	0 m tz			-

Partial analyses of water from wells and springs in Brazoria County -- Continued

b/ Determined by soap method. c/ Analyzed by Curtis Laboratories.

e/ Analyzed in field by Samuel F. Turner.

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		()	lesu⊥	<u>ts are in</u>	parts per	m1111	on)								
Well	Owner	Depth of well (ft.)	D col	ate of lection	Dissolved solids	Cal- cium (Ca)	Magne- sium (Mg)	Sodium and Potassium (Na + K)	Bicar- bonate (HCO ₃)	Sul- fate (SO ₄)	Chlo- ride (Cl)	Fluor- ide (F)	Ni- trate (NO ₃)	Total hardness as CaCO ₃	
b/348	City of Lake Jackson	n													
_	No: 1	195	Feb.	20, 1943		39	16	241	437	23	217		-	164	
348	do.	195	Nov.	12, 1946	-	-	-	-	406	39	230	-	6.5	b/264	
349	Mrs. R. E. L.													-	
	Stringfellow	184	July	2, 1941	584	38	22	168	448	7.9	9 122	-	4.8	186	
351	C. L. Cobb	234	May	27, 1939	824	36	20	275	1,250	12	172	-	-	172	
353	F. A. Brock	801	May	25, 1939	2,673	65	24	957	750	1	1,440	0.5		260	
355	J. T. Stratton	578		do.	2,157	86	27	739	702	1	1,130	-	-	277	
357	F. A. Brock	847		do.	4,533	100	40	1,620	557	25	2,610	0,3	-	414	
358	Mrs. R. E. L.														
	Stringfellow	292	July	· 11, 1941	669 [·]	-		215	508	31	126	-	0.3	b/160	
<u>d</u> /400	Texas Prison System													_	
	Ramsey State Farm	700 <u>+</u>	Apr.	13, 1931	-	-	-	-	-	. 2	150	-	-	140	1
402	do.	660±	Oct.	3, 1946	-	-	-	-	264	2	130	-	-	b/126	96
407	do.	650		do.	-	-	-	-	296	2	400	-		<u>b</u> /165	ł
408	Texas Pipe Line Co.	520	July	· 30, 1946	-	-	-	-	312	2	108	-		<u>b</u> / 78	
409	F.W.Turner, Jr.	398	Nov.	15, 1946			-	-	306	2.0	096		-	<u>Б</u> / 90	
411	Dr. E.M.Turner	923	Mar.	23, 1939	495	20	4.1	175	532	1	162	0.6	-	- 68	
412	Arney Estate	1,168	May	23, 1939	765	16	4.1	286	532	1	326	0.7	-	58	
423	Joe Vrazel	20	May	19, 1939	1,379	90	47	390	1,310	48	430	0.9	-	419	
424	Walter Peltier	140	May	18, 1939	867	-	-	194	412	8	320	-	-	b/398	
426	Danbury School	96	May	19, 1939	600	102	31.	90	823	11	162	0.4	-	- 384	
427	Danbury Townsite	600 <u>+</u>	May	19, 1939	836		-	331	602	2	205	1.3	-	b/ 69	
430	Texas Agricultural													<u> </u>	
	Experiment Station	n 324	July	· 1, 1941	757	-	-	270	619	28	126	-	0.2	b/128	
431	Louis Klever	196	May	23, 1939	680	80	28	149	799	15	210	0.4	· _	~ 318	
433	Joe Bingham	1,300+	May	29, 1939	461	8.8	3 6.6	172	ó05	3	120	0.8	-	<u> </u>	
434	Missouri Pacific		5						-	2					
	Railway Co.	635		dó.	640	19	7.8	235	895	1	154	1.2	-	80	
435	A. L. Hollins	138		do.	459	98	21	52	690	13	104	-	-	333	
436	R. H. Carr	206		do.	388	65	22	59	702	12	56	-		254	

Partial analyses of water from wells and springs in Brazoria County -- Continued

a Sulfate less than 10 parts per million.

b/ Determined by soap method. c/ Analyzed by Curtis Laboratories.

d/ Analyzed in owner's laboratory. e/ Analyzed in field by Samuel F. Turner.

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	(Results are in parts per million)														
Well	0wner -	Depth of well (ft.)	D. col	ate lect	of ion	Dissolved solids	Cal- cium (Ca)	Magne- sium (Mg)	Sodium and Potassium (Na + K)	Bicar- bonate (HCO3)	Sul- fate (SO4)	Chlo- ride (Cl)	Fluor- ide (F)	Ni- trate (NO3)	Total hardness as CaCO:
440	McCarthy Oil and										•				
	Gas Corp.	812	Oct.	11,	1946			-		446	2	800	-	3.5	b/ 96
444	R. S. Stanger	180	May	29,	1939	472	89	16	74	678	15	110	-	-	290
447	Texas Prison System	n		_			~ 4								
	Retrieve State Fa	m:450±	July	1,	1941	912	78	33	234	440	40	308	-	2.0	330
448	do:	900 <u>+</u>		do.		2,476	-	-	920	376	2	1,350	-	-	<u>b</u> /214
449	do.	900 <u>+</u>		do.		2,313	-	-	843	372	2	1,250	-	-	b/237
450	B. M. Jamison	735±	July	2,	1941	759	14	5.2	284	428	2	224	1.3	0.8	- 56
452	Otto Eberspacher	260	May	25,	1939	467	51	22	106	750	13	89	-	-	219
453	B. M. Jamison	160	July	2,	1941	425	-	-	60	369	7	66	~	1.2	ъ/243
e/454	Texas & Louisiana		•	-											
	Power Co.	336	Apr.	14,	1931	-	-	-	-	-	5	75	-	-	300
455	City of Angleton		-												
	No. 2	413	June	20,	1941	727	12	4.1	274	402	1	222	_ -	0.0	47
456	City of Angleton			-											
	No. 3	1,012		do.		805	12	4.3	305	384	1	278	1.0	0.0	48
459	A. E. Peterson	70	May	25,	1939	623	72	28	136	408	28	134	-	-	298
460	L. H. Follett	301	July	3,	1941	644	27	16	208	496	27	106	0.8	0.3	134
461	E. E. White	300	May	25,	1939	585	32	18	183	944	18	100	0.8	-	151
463	· Otto Eberspacher	740		do.		1,009	15	6.6	391	1,150	1	310	-	-	64
464	Dan Cico	211	May	18,	1939	619	-	-	176	480	36	105	0.4	-	b/198
473	Freeport Sulphur														
	Co. No. 24	245	Oct.	10,	1946			-	-	468	23	206	-	-	b/312
474	Freeport Sulphur														-
	Co. No. 12	592		do.		-	-	-	-	526	2	572	-		b/ 72
476	Freeport Sulphur														_
	Co. No. 28	240		do.		-	~	-	-	492	18	155	-		<u>b/207</u>
501	J. E. Fairfield	315	May	23,	1939	347	-	-		617	1	58	-	-	
502	C. W. Chapman	364	÷ .	do.		333	-	-	_	629	1	46	-	-	-
e/503	do.	420	Apr.	13,	1931	-	— ,	-	-	-	5	70	-	-	140
504	Sadie Lockridge	400	May	23,	1939	363	27	6.6	114	605	1	64	0.5		94

Partial analyses of water from wells and springs in Brazoria County -- Continued

a/ Sulfate less than 10 parts per million.
b/ Determined by soap method.
c/ Analyzed by Curtis Laboratories.

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d/ Amalyzed in owner's laboratory. e/ Analyzed in field by Samuel F. Turner.

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		(Res	sults	are	in pa	rts per mi.	Llion)							
		Depth	Τ		-							a			
Well	Owner	of	D	ate (of	Dissolved	Cal-	Magne-	Sodium and	Bicar-	Su1-	Chio-	Fluor-	Ni-	Total
		well	col	lect	ion	solids	cium	sium	Potassium	bonate	fate	ride	ide	trate	hardness
		(ft.)		•			(Ca)	(lig)	(Na + K)	(HCO_3)	(S04)	(C1)	(F)	(NO_3)	as CaCO3
505	Ray D. Moyle	579	May	23,	1939	343	35	7.8	93	557	1	65	-		120
506	J. A. Fite	598		do.		335	37	6.6	91	545	1	64	-	-	119
e/508	Hamilton Estate	511	Apr.	10,	1931	-	-	-	-	-	2	120			180
e/511	Judge Tigner	40		do.		-	-	-	-	-	30	1,600	-	-	2,000
5 12	Texas Prison System	ı													
	Darrington State														
	Farm	1,371	Oct.	8,	1946	-		-	-	500	5	460	-	-	Ъ∕ 90
516	Otto Sens Club	600 <u>+</u>	May	22;	1939	1,141	120	40	279	1,430	28	320	-	-	464
517	China Grove School	792	-	do.		628	36	11	197	387	3	285	0.5	-	137
523	Bert Pritchett	30		do.		612	80	. 13	142	956	15	120	-	-	271
524	Frank Prachar	27		do.		1,000	120	50	199	871	17	398	_		506
525	Isaac Estate	30	May	19,	1939	434	-	-	-	762	8	69	-	-	
527	R. L. Colley	54		do.		831	-	-	-	1,320	23	162	-	-	-
528	W. L. Heller	151	May	24,	1939	935	106	45	194	1,110	20	250	-	44	447
<u>e</u> /529	Gulf States														
-	Utilities Co.	158	Apr.	16,	1931	-	-	-	-	-	10	100	-	-	260
<u>e/530</u>	City of Alvin No.]	L 750		do.		-		-	-	-	5	270	-	-	75
530	do.	750	June	20,	1940	725	17	5.4	263	342	1	250	1.0	0.0	65
531	City of Alvin No. 2	2 722		do.		709	16	5.0	299	342	l	240	1.0	0.0	60
533	Phillips Petroleum														
	Co.	156	July	25,	1946	-	-	-	-	436	17	94		0.4	b/288
534	John Savage	16	May	19,	1939	521	71	24	108	1,020	10	56	0.4	-	275
<u>e</u> /535	G. F. Plummer	843	Apr.	16,	1931	-	-	-	-	-	5	290	-		75
536	Rowan Drilling Co.	485	July	• 30,	1946	-	-		-	404	2	116	-	-	b/ 75
537	Humble Oil and														
	Refining Co.	473		do.			-		-	392	2	164	-		<u>b</u> / 57
<u>e/538</u>	C. and L. Knape	1,118	Apr.	16,	1931	-	-	-	-	-	25	290	-	-	- 60
538	do.	1,118	May	19,	1939	703	16	4.1	264	714	10	232	0.5	-	53
539	C. C. Waits	20	-	do.		488	99	24	64	992	11	44	-	_	345
540	W. Russel	600		do.		506	20	4.1	181	605	1	150	0.9	_	68
541	Boy Scouts of					-		•				-,	,		00
	America	350+	Aug.	29.	1946	-	-	-	_	550	40	126	-	-	b/198
a/ Sul	fate less than 10 pa	rts pe	r mil	lion	•			c/ Anal	yzed by Cur	tis Lab	orato	ries.			
b/ Det	ermined by soap meth	nod.						d/ Anal	yzed in own	er's la	borat	ory.			

Partial analyses of water from wells and springs in Brazoria County -- Continued

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E/ Analyzed in field by Samuel F. Turner

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WellDepth of well (t.)Date of collectionDissolved collectionCal- main collectionSodium and soludsBicar- potassium (Ma + K)Chlo- Fluor (HCO3)Fluor trate (KO3)Ni- trate (NO3)Total trate (NO3)542Boy Scouts of America5501 (t.)Aug. 29, 19455161870b/ 78543Pan-American Co.9981946808140.930812326411-38545H. Clement26May 18, 193973618557720142-0.0b/292546Liverpool School500do.7692576181313-b/ 48547J. H. Clement133do.769257618131420.8-b/775549John Beckett30May 17, 19392,10537449410100-1.5b/1,620550Hars Peterson65do.5632842220b/78549John Beckett3020Aug. 25, 19462842220b/78557do.96do2842 <th></th> <th></th> <th></th> <th>(110)</th> <th>SULU</th> <th>J UL .</th> <th>in parto p</th> <th></th>				(110)	SULU	J UL .	in parto p										
542 Boy Scouts of America 550± Aug. 29, 1945 516 18 70 - b/78 543 Pan-American Produc Co. 998 1946 808 14 0.9 308 123 26 411 38 545 H. Clement 26 Way 19, 1939 736 - 185 577 20 142 - 0.0 b/292 546 Liverpool School 500 do. 595 - 236 433 2 143 1.3 - b/48 547 J. H. Clement 133 do. 769 - 257 618 18 142 0.8 - b/163 548 South Texas Water Co. 98 do. 763 - 171 436 36 250 - b/375 549 John Beckett 30 Way 17, 1939 2,105 - 394 508 122 945 - b/375 549 John Beckett 30 Way 17, 1939 2,105 - 394 508 122 945 - b/375 549 John Beckett 30 Way 17, 1939 2,106 73 394 10 100 - 1.5 b/368 551 Chocolate Bayou School 200 Aug. 28, 1946 73 394 18 66 0.6 0.3 b/278 558 Pan-American Gas Co. 100± July 18, 1946 73 394 18 66 0.6 0.3 b/278 564 The Texas Co. 684 July 1, 1946 73 394 18 66 0.6 0.8 b/262 563 Southern Mathedist University 25 do. 453 53 450 2 46 0.2 1.0 b/322 564 The Texas Co. 684 July 1, 1946 330 1 194 - b/50 565 do. 600 July 13, 1946 330 1 194 - b/50 566 do 330 450 2 1.0 b/322 567 J. D. Hughes 180 Way 1, 1939 983 - 283 655 3 270 0.6 - b/308 568 do. 180 do. 1,092 359 4 279 b/171 567 J. D. Hughes 180 Way 1, 1939 983 - 283 655 3 270 0.6 - b/308 568 do. 180 do. 1,092 345 694 10 312 - b/308 569 Humble 011 and Refining Co. 557 Aug. 1, 1946 358 3 174 - 1.8 b/60 560 for J. D. Hughes 180 Way 1, 1939 2, 171 626 702 12 980 0.6 - b/308	Well	Owner	Depth of well (ft.)	Da coli	ate d Lecti	of ion	Dissolved solids	Cal- cium (Ca)	Magne- sium (Mg)	Sodium and Potassium (Na + K)	Bicar- bonate (HCO ₃)	Sul- fate (SO4)	Chlo- ride (Cl)	Fluor- ide (F)	Ni- trate (NO ₃)	Total hardness as CaCO ₃	•
America 550 [±] Aug. 29, 1945 516 18 70 <u>b</u> /78 543 Pan-American Product Co. 998 1946 808 14 0.9 308 123 26 411 38 545 H. Clement 26 Way 13, 1939 736 185 577 20 142 - 0.0 <u>b</u> /292 546 Liverpool School 500 do. 595 236 433 2 143 1.3 - <u>b</u> /48 547 J. H. Clement 183 do. 769 - 257 618 19 142 0.8 - <u>b</u> /163 548 South Texas Water Co. 98 do. 763 - 171 435 36 250 - <u>b</u> /375 549 John Beckett 30 Way 17, 1939 2,106 - 377 494 10 100 - 1.5 <u>b</u> /368 551 Chocolate Bayou School 220 Aug. 28, 1946 78 40 130 - <u>b</u> /141 555 Phillips Petroleum Co. 700 [±] Aug. 25, 1946 284 2 220 - <u>b</u> /78 3 558 Pan-American Gas Co. 100 [±] July 18, 1946 456 20 126 - 455 <u>b</u> /213 ' 561 Mustang School 60 Way 17, 1939 461 73 394 18 66 0.6 0.3 <u>b</u> /278 562 Fred Trantow 90 do. 552 - 109 463 12 60 0.6 0.8 <u>b</u> /282 563 Southern Wathodist University 25 do. 453 53 450 2 46 0.2 1.0 <u>b</u> /322 564 Mustang School 60 Way 17, 1939 983 339 418 66 0.6 0.8 <u>b</u> /282 565 do. 640 July 13, 1946 399 42 279 - <u>b</u> /171 567 do. 90 do. 522 - 109 483 12 60 0.6 0.8 <u>b</u> /276 563 Southern Wathodist University 25 do. 453 53 450 2 46 0.2 1.0 <u>b</u> /322 564 The Texas Co. 644 July 1, 1946 353 174 - <u>b</u> /50 565 do. 640 July 13, 1946 359 42 279 - <u>b</u> /70 566 do <u>b</u> /308 567 J. D. Hughes 180 Way 1, 1939 983 - 283 655 3 270 0.6 - <u>b</u> /308 568 do. 180 do. 1,092 345 694 10 312 - <u>b</u> /270 569 Humble 0il and Refining Co. 557 Aug. 1, 1939 2,171 - <u>c</u> /518 3 174 - 1.8 <u>b</u> /60 570 Joe D. Harknes	542	Boy Scouts of															•
54.3 Pan-American Product Co. 998 1946 808 14 0.9 308 123 26 411 38 545 H. Clement 26 Way 18, 1939 736 185 577 20 142 - 0.0 b/292 546 Liverpool School 500 do. 595 236 433 2 143 1.3 - b/48 547 J. H. Clement 133 do. 769 - 257 618 18 142 0.8 - b/163 548 South Texas Water Co. 98 do. 763 171 433 36 250 b/375 549 John Beckett 30 Way 17, 1939 2,106 394 508 122 945 b/1,020 550 Hans Peterson 65 do. 583 37 494 10 100 - 1.5 b/368 551 Chocolate Bayou School 220 Aug. 28, 1946 578 40 130 b/141 555 Phillips Petroleum Co. 700+ Aug. 25, 1946 578 40 130 b/141 555 Phillips Fetroleum Co. 700+ Aug. 25, 1946 426 20 126 - 45 b/213 4 553 Pan-American Gas Co. 100+ July 18, 1946 426 21 113 - 1.2 b/195 564 Mastang School 60 May 17, 1939 461 73 394 18 66 0.6 0.3 b/278 562 Fred Trantow 90 do. 522 - 109 483 12 60 0.6 0.8 b/262 563 Southern Wathodist University 25 do. 453 - 53 450 2 46 0.2 1.0 b/322 564 The Texas Co. 684 July 1, 1946 330 1 194 b/ 50 565 do. 640 July 13, 1946 330 1 194 b/ 50 565 do. 640 July 13, 1946 330 1 194 b/ 50 565 do. 640 July 13, 1946 330 1 194 b/ 50 565 do. 640 July 13, 1946 359 4 279 b/171 567 J. D. Hughes 130 Way 1, 1939 983 - 283 655 3 270 0.6 - b/308 568 do. 180 do. 1,092 - 345 594 10 312 b/171 567 J. D. Hughes 130 Way 1, 1939 983 - 283 655 3 270 0.6 - b/308 568 do. 180 do. 1,092 345 594 10 312 b/171 567 J. D. Hughes 130 Way 1, 1939 983 - 283 655 3 270 0.6 - b/308 568 do. 180 do. 1,092 345 594 10 312 b/172 569 Humble 0il and Refining Co. 557 Aug. 1, 1939 2,171 626 702 12 980 0.6 - b/502	~	America	550±	Aug.	29,	1945	-	-	-	-	516	18	70	-		<u></u> ь/ 78	
Co. 998 1946 808 14 10.9 308 123 25 411 38 545 H. Clement 26 kay 13, 1939 736 185 577 20 142 - 0.0 b/292 546 Liverpool School 500 do. 595 236 433 2 143 1.3 - b/48 547 J. H. Clement 133 do. 769 257 618 19 142 0.8 - b/168 548 South Texas Water Co. 98 do. 763 171 436 36 250 - b/375 549 John Beckett 30 May 17, 1939 2,105 - 394 508 122 945 - b/375 550 Hans Peterson 65 do. 583 - 37 494 10 100 - 1.5 b/368 551 Chocolate Bayou School 220 Aug. 28, 1946 578 40 130 - b/18 Co. 700 \pm Aug. 25, 1946 578 40 130 - b/18 Co. 700 \pm Aug. 25, 1946 578 40 130 - b/18 School 220 Aug. 28, 1946 578 40 130 - b/19 School 220 Aug. 28, 1946 578 40 130 b/141 555 Phillips Petroleum Co. 700 \pm Aug. 25, 1946 456 20 126 - 45 b/213 \pm School 20 0 Aug. 27, 1939 461 456 20 126 - 45 b/213 \pm 561 Mustang School 60 May 17, 1939 461 73 394 18 66 0.6 0.3 b/278 562 Fred Trantow 90 do. 522 - 109 483 12 60 0.6 0.8 b/262 563 Southern Methodist University 25 do. 453 - 53 450 2 46 0.2 1.0 b/322 564 The Texas Co. 684 July 1, 1946 330 1 194 - b/79 565 do. 640 July 13, 1946 359 4 279 - b/171 567 J. D. Hughes 180 May 1, 1939 93 - 283 655 3 270 0.6 - b/308 568 do. 180 May 1, 1939 93 - 283 655 3 270 0.6 - b/171 567 J. D. Hughes 180 May 1, 1939 2,171 - 567 694 10 312 - b/171 567 J. D. Hughes 180 May 1, 1939 2,171 - 567 0.2 12 980 0.6 - b/502	543	Pan-American Produce					000	. .			100	~ (
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54,6 Liverpool School 500 do. 595 236 433 2 14,3 1.3 - b/48 54,7 J. H. Clement 133 do. 769 - 257 618 13 14,2 0.8 - b/163 548 South Texas Water Co. 98 do. 763 - 171 436 36 250 - b/375 549 John Beckett 30 May 17, 1939 2,106 - 394 508 122 945 - b/1,020 550 Hars Peterson 65 do. 583 - 37 494 10 100 - 1.5 b/368 551 Chocolate Bayou School 220 Aug. 28, 1946 7 - 578 40 130 - b/141 555 Phillips Petroleum Co. 700 Aug. 25, 1946 7 - 284 2 220 - b/141 555 Phillips Petroleum Co. 700 Aug. 25, 1946 7 - 456 20 126 - 455 b/213 4 558 Pan-American Gas Co. 100 July 18, 1946 7 - 426 21 113 - 1.2 b/195 561 Mustang School 60 May 17, 1939 461 - 73 394 18 66 0.6 0.3 b/278 562 Fred Trantow 90 do. 522 - 109 488 12 60 0.6 0.8 b/262 564 The Texas Co. 684 July 1, 1946 330 1 194 - b/50 564 The Texas Co. 684 July 1, 1946 357 450 2 46 0.2 1.0 b/322 564 The Texas Co. 684 July 1, 1946 5 - 353 450 2 46 0.2 1.0 b/322 564 The Texas Co. 684 July 1, 1946 5 - 353 450 2 46 0.2 1.0 b/322 564 The Texas Co. 684 July 1, 1946 5 - 353 450 2 46 0.2 1.0 b/322 564 The Texas Co. 684 July 1, 1946 5 - 357 400 312 - b/171 567 J. D. Hughes 180 May 1, 1939 983 - 283 655 3 270 0.6 - b/50 568 do. 180 do. 1,092 - 345 694 10 312 - b/270 569 Humble 0il and Refining Co. 557 Aug. 1, 1946 518 3 174 - 1.8 b/60 570 Joe D. Hughes 75 May 1, 1939 2,171 - 626 702 12 980 0.6 - b/502	545	H. Clement	26	May	18,	1939	736	-	-	185	577	20	142	-	0.0	<u>b</u> /292	
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548 South Texas Water Co. 98 do. 763 - 171 433 36 250 - b/375 549 John Beckett 30 May 17, 1939 2,105 - 394 508 122 945 - b/1,020 550 Hans Peterson 65 do. 583 - 37 494 10 100 - 1.5 b/368 551 Chocolate Bayou School 220 Aug. 28, 1946 7 - 578 40 130 - b/141 555 Phillips Petroleum Co. 700+ Aug. 25, 1946 7 - 578 40 130 - b/141 557 do. 96 do 7 - 456 20 126 - 45 b/213 558 Pan-American Gas Co. 100+ July 18, 1946 456 20 126 - 45 b/213 560 Mustang School 60 May 17, 1939 461 - 73 394 18 66 0.6 0.3 b/278 562 Fred Trantow 90 do. 522 - 109 483 12 60 0.6 0.8 b/262 563 Southern Methodist University 25 do. 453 - 53 450 2 46 0.2 1.0 b/322 564 The Texas Co. 684 July 1, 1946 3 53 450 2 46 0.2 1.0 b/322 565 do. 640 July 13, 1946 53 450 2 46 0.2 1.0 b/322 564 The Texas Co. 684 July 1, 1946 53 450 2 46 0.2 1.0 b/322 565 do. 640 July 13, 1946 53 450 2 46 0.2 1.0 b/322 564 The Texas Co. 684 July 1, 1946 5 3 450 2 46 0.2 1.0 b/322 565 do. 640 July 13, 1946 5 3 450 2 46 0.2 1.0 b/322 564 The Texas Co. 684 July 1, 1946 5 3 450 2 46 0.2 1.0 b/322 565 do. 640 July 13, 1946 5 3 450 2 46 0.2 1.0 b/322 564 The Texas Co. 684 July 1, 1946 5 3 450 2 46 0.2 1.0 b/322 564 do. 180 do. 1,092 - 345 694 10 312 - b/50 565 do. 180 do. 1,092 - 5 345 694 10 312 - b/508 568 do. 180 do. 1,092 - 5 345 694 10 312 - b/508 569 Humble 011 and Refining Co. 557 Aug. 1, 1939 2,171 - 626 702 12 980 0.6 - b/502	547	J. H. Clement	133		do.		769	-		257	618	18	142	0.8	-	<u>b</u> /168	
54.9 John Beckett 30 May 17, 1939 2,105 394 508 122 945 $b/1,020$ 550 Hans Peterson 65 do. 583 37 494 10 100 - 1.5 $b/368$ 551 Chocolate Bayou School 220 Aug. 28, 1946 578 40 130 $b/141$ 555 Phillips Petroleum Co. 700+ Aug. 25, 1946 284 2 220 $b/78$ g 557 do. 96 do 456 20 126 - 45 $b/213$ 558 Pan-American Gas Co. 100+ July 18, 1946 456 20 126 - 45 $b/213$ 561 Mustang School 60 May 17, 1939 461 73 394 18 66 0.6 0.3 $b/278$ 562 Fred Trantow 90 do. 522 - 109 488 12 60 0.6 0.8 $b/262$ 563 Southern Methodist University 25 do. 453 - 53 450 2 46 0.2 1.0 $b/322$ 564 The Texas Co. 684 July 1, 1946 330 1 194 $b/711$ 567 J. D. Hughes 180 May 1, 1939 983 - 283 655 3 270 0.6 - $b/308$ 568 do. 180 do. 1,092 - 345 694 10 312 $b/270$ 569 Humble 0il and Refining Co. 557 Aug. 1, 1946 518 3 174 - 1.8 $b/60$	548	South Texas Water C	o. 98		do.		763	-	-	171	436	36	250	-	-	<u>b</u> /375	
550Hans Peterson55do. 583 37 494 10 100 - 1.5 $b/368$ 551Chocolate Bayou School220Aug. 28, 1946 578 40 130 $b/141$ 555Phillips Petroleum Co.700+Aug. 25, 1946 284 2 220 $b/78$ 96 557do.96do 456 20 126 - 455 $b/213$ 568Pan-American Gas Co. $100+$ July 18, 1946 425 21 113 - 1.2 $b/195$ 561Mustang School60May 17, 193946173394 18 66 0.6 0.3 $b/278$ 562Fred Trantow90do. 522 - 109 483 12 60 0.6 0.8 $b/262$ 563Southern Methodist University25do. 453 330 1 194 - $ b/171$ 567J. D. Hughes180Kay $1, 1939$ 983 -283 655 3 270 0.6 $ b/308$ 568do.180do. $1,092$ - $ 345$ 694 10 312 - $b/270$ 569Humble Oil and Refining Co.557	549	John Beckett	30	Mav	17,	1939	2,105	-	-	394	508	122	945	-	-	b/1,020	
551Chocolate Bayou School220Aug. 28, 194657840130b/141555Phillips Petroleum Co.700+Aug. 25, 19462842220b/7896557do.96do45620126-45b/213558Pan-American Gas Co.100+July 18, 194642521113-1.2b/195561Mustang School60May 17, 19394617339418660.60.3b/278562Fred Trantow90do.522-10948312600.60.8b/262563Southern Methodist3301194b/ 50565do.640July 13, 19463594279-b/ 171567J. D. Hughes180May 1, 1939983-28365532700.6-b/ 308568do.180do.1,09234569410312b/ 200569Humble Oil and5183174-1.8b/ 60570Joe D.Hughes75May 1,	550	Hans Peterson	65		do.		583	-	-	87	494	19	100	-	1.5	<u>b</u> /368	
School220Aug. 28, 194657840130b/141555Phillips PetroleumCo. $700 \pm$ Aug. 25, 19462842220b/ 7898557do.96do45620126-45b/ 2131558Pan-American Gas Co.100±July 18, 194642521118-1.2b/ 195561Mustang School60May 17, 19394617339418660.60.3b/ 262562Fred Trantow90do.522-10948312600.60.8b/ 262563Southern Methodist3301194b/ 502564The Texas Co.634July 1, 19463301194b/ 502565do.640July 13, 194634565532700.6-b/ 308568do.180do.1,09234569410312-b/ 270569Humble Oil and5183174-1.8b/ 60570Joe D. Hughes75May 1, 19392,171 <t< td=""><td>551</td><td>Chocolate Bayou</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	551	Chocolate Bayou															
55Phillips PetroleumCo. $700 \pm$ Aug. 25, 19462842220b/ 7856557do.96do45620126-45b/213558Fan-American Gas Co.100 \pm July 18, 194642521118-1.2b/195561Mustang School60May 17, 19394617339418660.60.3b/278562Fred Trantow90do.52210948312600.60.8b/262563Southern MethodistUniversity25do.4533301194b/ 50565do.640July 13, 19463594279b/ 70567J. D. Hughes180May1, 1939983-28365532700.6-b/ 308568do.180do.1,09234569410312b/ 270569Humble Oil and5183174-1.8b/ 60570Joe D. Hughes75May1, 19392,171626702129800.6<		School	220	Aug.	28,	1946	-	-	-	-	578	40	130	-	-	<u>b</u> /141	
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562Fred Trantow90do.52210948312600.60.8 $b/262$ 563Southern MethodistUniversity25do.453534502460.21.0 $b/322$ 564The Texas Co. 684 July 1, 19463301194 $b/50$ 565do. 640 July 13, 19463594279 $b/171$ 567J. D. Hughes180May1, 193998328365532700.6- $b/308$ 568do.180do.1,09234569410312 $b/270$ 569Humble Oil and5183174-1.8 $b/60$ 570Joe D. Hughes75May1, 19392,171626702129800.6- $b/502$	561	Mustang School	60	May	17,	1939	461	-	-	73	394	18	66	0.6	0.3	b/278	
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564The Texas Co. 684 July 1, 19463301194 $\vec{b}/50$ 565do.640July 13, 19463594279 $\vec{b}/171$ 567J. D. Hughes180May1, 193998328365532700.6- $\vec{b}/308$ 568do.180do.1,09234569410312 $\vec{b}/270$ 569Humble Oil and Refining Co.557Kug. 1, 19465183174-1.8 $\vec{b}/60$ 570Joe D. Hughes75May1, 19392,171626702129800.6- $\vec{b}/502$		University	25		do.		453	< _	-	53	450	2	46	0.2	1.0	b/322	
565do.640July 13, 1946 $ 359$ 4 279 $ b/171$ 567J. D. Hughes180May1, 1939983 $ -$ 28365532700.6 $ b/308$ 568do.180do.1,092 $ -$ 34569410 312 $ b/270$ 569Humble Oil andRefining Co.557Aug. 1, 1946 $ 518$ 3 174 $ 1.8$ $b/60$ 570Joe D. Hughes75May1, 1939 $2,171$ $ 626$ 702 12 980 0.6 $ b/502$	564	The Texas Co.	684	July	1.	1946	-	-	-	-	330	l	194	-	-	b/ 50	
567 J. D. Hughes 180 May 1, 1939 983 - 283 655 3 270 0.6 - b/308 568 do. 180 do. 1,092 - - 345 694 10 312 - - b/200 569 Humble Oil and </td <td>565</td> <td>do.</td> <td>640</td> <td>July</td> <td>13.</td> <td>1946</td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>359</td> <td>4</td> <td>279</td> <td>-</td> <td>-</td> <td>b/171</td> <td></td>	565	do.	640	July	13.	1946		-	-	-	359	4	279	-	-	b/171	
568 do. 1,092 - 345 694 10 312 - - b/270 569 Humble Oil and Refining Co. 557 Aug. 1, 1946 - - - 518 3 174 - 1.8 b/ 60 570 Joe D. Hughes 75 May 1, 1939 2,171 - - 626 702 12 980 0.6 - b/502	567	J. D. Hughes	180	Mav	1.	1939	983		-	283	655	• 3	270	0.6		b/308	
569 Humble Oil and Refining Co. 557 Aug. 1, 1946 - - - 518 3 174 - 1.8 b/ 60 570 Joe D. Hughes 75 May 1, 1939 2,171 - - 626 702 12 980 0.6 - b/ 502	568	do.	180	v	do.		1.092		-	345	694	10	312	-	_	b/270	
Refining Co. 557 Aug. 1, 1946 518 3 174 - 1.8 b/ 60 570 Joe D. Hughes 75 May 1, 1939 2,171 626 702 12 980 0.6 - b/502	569	Humble Oil and									••		-				
570 Joe D. Hughes 75 May 1, 1939 2,171 626 702 12 980 0.6 - b/502		Refining Co.	557	Aug.	1.	1946	-	-		-	518	3	174	-	1.8	ъ/ 60	
	570	Joe D. Hughes	75	May	1.	1939	2,171	-	-	626	702	12	980	0.6		b/502	

Partial analyses of water from wells and springs in Brazoria County -- Continued (Results are in parts per million)

a/ Sulfate less than 10 parts per million. b/ Determined by soap method. c/ Analyzed by Curtis Laboratories.

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d/ Analyzed in owner's laboratory. e/ Analyzed in field by Samuel F. Turner.

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			(Res	uts	are i	n parts poi	r mil.	<u>[10n]</u>						L	
Well	Owner	Depth of well (ft.)	Da coli	ate (lect:	of ion	Dissolved solids	Cal- cium (Ca)	Magne- sium (Mg)	Sodium and Potassium (Na + K)	Bicar- bonato (HCO3)	Sul- fate (SO4)	Chlo- ride (Cl)	Fluor- ide (F)	Ni- trate (NO3)	Total hardness as CaCO3
573	Amarado Petrolcum						•								
	Co.	534	May	2:	1939	770	-		331	626	1	163	1.1	-	b/ 28
600	Ray Fogle	50	Mav	24	1939	2,271	200	113	484	774	302	980		-	965
601	R. O. Nood	87	- U	do.		544	80	28	95	847	20	110	-	-	318
602	Frank Dohertv	80	Aug.	19.	1932	427	1.01	22	38	414	6	56	-	0.0	343
e/603	John Doherty	54	Aug.	8.	1932	-	-	-	_	_	15	270		_	340
e/604	do.	25±	0	do,	-,,,	-	-	-	-	-	10	60	-	-	330
605	C. W. Massev	100	ing.	.19.	1932	1.883	161	120	380	328	115	945	-	0.1	394
e/606	H. Richards	25	Aug.	7.	1932	-,,-	_	-	_	_	15	150	-		360
607	Midstates Oil Corp.	200+	July	19.	1946	· _	_	-	-	380	21	216		-	b/162
609	C. W. Massev	30+	July	22.	1933	1.424	94	61	372	511	72	560	-	13	485
e/610	T. P. Mahanev	20	Aug.	8.	1932	-	-	-	_	-	5	35			400
611	Flovd Dimitt	90	May	24.	1939	512	~	_	-	799	ló	102		-	-
512	C. H. Alexander	1.773	Nov.	15.	1946	1.340	14	5.5	527	732	25	410	_	0.0	53
e/613	Santa Fe Railway	-9112		-/,	-/	_,,,,,,				10					
ر ك	Co.	507	Apr.	16.	1931	-		-	-	-	2	35		<u>`</u>	90
614	Pearland School	535	av	24.	1939	334	30	4.1	103	605	1	46	-	-	93
e/615	C. W. Massev	140	Aug.	17.	1932	-	_	_		_	15	40	-	-	360
616	Magnolia Fruit Farm	512	lav	24.	1939	823	112	39	153	762	25	305	0.5	_	139
617	Dixie Fig Farm	475		do.	-,,,	619	63	24	150	750	16	180	0.4		255
618	A. W. Brown	140	Feb.	16.	1939	836	_	-	199	418	<u> </u>	300		1.5	b/338
619	do.	140		do.	-157	678	-	_	158	400	3	210		3.0	b/285
620	L. L. Barnes	352	June	25.	1946		_			307	í	35	-	-	5/81
621	Cecil Brown	560	Feb.	16.	1939	301	_		89	291	Ĩ.	33		0.3	$\frac{1}{10}$
623	Stanolind Oil and	,	2000	,	-,,,,				37	~/±	+))		•••	
0.20	Gas Co.	538	Julv	24.	1946	_	' -	-	_	304	2	68	_	_	b/ 96
629	do.	591	June	21	1945		_	_	_	330	$\tilde{2}$	71.	_	_	b/105
e/631	Frank Cisco	20	Lug.	17	1932	_	_	_	_		10	14 \$5	_	-	220
e/632	F. A. Goedecke	37	July	22.	1933	771	58	35	206	626	17	146	_	0.6	288
e/633	A. Huepper	18	Aug	17	1932	-		-	~~~~	-	2	20	-	-	280
0/634	A J Hicks	<u> </u>			±,,,~		-				~ E	110	-	-	250
621	do He We HICKS	70 00	1000	22	1020	672		- 27	160	1 0.0	ע רו	140	-		~ <u>~</u>)U
		70	· .c.y	, ~~	17.77	012		~^ (TOO	1,040	11 11	14K	-		<u> </u>

Partial analyses of water from wells and springs in Brazoria County -- Continued

a/ Sulfate less than 10 parts per million.

 \overline{b} / Determined by soap method.

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d/ Analyzed in owner's laboratory. e/ Analyzed in field by Samuel F. Turner.

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Well	Owncr	Depth of woll	Date of collection	Dissolved solids	Cal- cium	Magne- sium	Sodium and Pothssium	Bicar- bonate	Sul- fate	Chlo- ride	Fluor- ide	Ni- trate	Total hardness
		(ft.)			(Ca)	(Mg)	(Na + K)	(HCO3)	(೮೦ ₄)	(C1)	(F)	(NO_3)	as CaCO ₃
<u>c</u> /635	L. O. Callihan	62	hug. 17, 1932	-		-	-	-	1	70	-	-	300
<u>e</u> /636	do.	35	do.	-	-	-	-		2	30	-	-	320
<u>e</u> /637	Mrs.C.Marasckin	52	do.	-	-	-	-	-	25	110	-	-	290
<u>e</u> /638	Joe Corce	54	do.	-		-	-	-	10	70	-	-	300
639	Gulf Oil Corp.	480	July 18, 1946	-	_	-	-	337	24	61	-	-	b/ 48
640	The Texas Co.	1,229	July 1, 1946			-		121	18	153	-	-	<u>b</u> / 36
642	C. Matali	60	July 22, 1933	329	102	12	11	358	5.3	19	-	3.5	
<u>e</u> /643	The Texas Co.No.1	300 <u>+</u>	Lug. 8, 1932	-	-	-	-	-	40	95		-	150
646	The Texas Co.No.4	618	July 18, 1946		_	- ,	-	305	16	39	-		b/ 63
647	The Texas Pipe												
	Line Co.	812	do.	-	-	-	-	347	22	50	-	-	b/ 30
<u>e</u> /648	Victor Del Bello	50	Aug. 17, 1932	-	-	-	-	÷	10	130	-	~	- 270
<u>e</u> /549	J. W. Lewis	27	do.	-	-	-	-	-	5	140		-	310
650	Manvel School	165	May 22, 1939	505	43	24	127	799	14	96	0.4	-	205
e/651	M. Pavlovich	65	Aug. 17, 1932	-	-	-		-	5	140	-	-	220
652	M. H. Peters	36	May 22, 1939	414	109	15	- 36	871	1	37	-	-	334
653	Donald Ford	60	do.	60.2	125	22	72	895	21	94	-	46 [°]	404
a/ Sul	fate less than 10 p	arts per	r million.			d/ Anal;	yzed in owne	er's la	borat	orv.			

Partial analyses of water from wells and springs in Brazoria County -- Continued (Results are in parts per million)

b/ Determined by scap method. c/ Analyzed by Curtis Laboratories.

e/ Analyzed in field by Samuel F. Turner.

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