

TEXAS DEPARTMENT OF WATER RESOURCES

TEXAS WATER DEVELOPMENT BOARD

REPORT 163

**GROUND-WATER RESOURCES OF
BRAZORIA COUNTY, TEXAS**

By

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United States Geological Survey

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GROUND-WATER RESOURCES OF BRAZORIA COUNTY, TEXAS

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United States Geological Survey

ABSTRACT

The Chicot and Evangeline aquifers are the only hydrologic units bearing fresh (less than 1,000 milligrams per liter dissolved solids) or slightly saline water (1,000-3,000 milligrams per liter dissolved solids) in Brazoria County. These aquifers are composed of gravel, sand, silt, and clay of Pliocene, Pleistocene, and Holocene age.

The upper beds of the Evangeline aquifer contain fresh water in the northern part of the county. The Evangeline, which contains fresh water to depths of more than 1,800 feet below sea level, has as much as 415 feet of sand containing fresh water. The average permeability is about 250 gpd (gallons per day) per square foot.

The Chicot aquifer is divided into a lower unit and an upper unit. The lower unit contains 100 to 290 feet of fresh-water sand in the northern part of the county. The upper unit has less than 100 feet of fresh-water sand at most locations and less than 50 feet in much of the county. The Chicot is the only source of fresh ground water in parts of the county. Other areas, notably near salt domes and along the coast of the Gulf of Mexico, have little or no fresh ground water.

Thirty-one tests of the Chicot aquifer showed a range of permeability from 130 to 1,655 gpd per square foot. The highest permeability was determined from a test of the lower unit at Freeport. Tests of the upper unit in the Freeport area showed permeabilities of as much as 1,225 gpd per square foot.

The chemical quality of the water in all the aquifers varies with location. Factors causing this variance include interconnection of the aquifers and the presence of salt domes in or near the aquifers. Seven domes pierce the aquifers in this county.

Water in the lower unit of the Chicot and the Evangeline aquifers is moving toward the cones of depression caused by pumping in Harris and Galveston Counties and toward local cones of depression surrounding well fields in the county. A large cone of depression occurs in the water-level surface as a result of pumping from the upper part of the Chicot in the Brazosport area of southern Brazoria County.

Land-surface subsidence of more than 1.5 feet, attributed mostly to ground-water removal, has taken place in northeast Brazoria County. Subsidence of as much as 1.6 feet has taken place in the Freeport area.

Ground-water pumpage for all uses in 1967 was about 43 mgd (million gallons per day). Of this, 22.6 mgd was used for irrigation, 12.7 mgd for industrial use, and 7.7 mgd for public and domestic supplies.

The fresh ground-water potential of the Brazosport area is fully developed or overdeveloped while in some areas in northern Brazoria County, it is relatively undeveloped. Large saline-water supplies could be developed almost anywhere in Brazoria County.

GROUND-WATER RESOURCES OF BRAZORIA COUNTY, TEXAS

INTRODUCTION

Location of the Area

Brazoria County is in southeast Texas on the Gulf Coastal Plain (Figure 1). Angleton, the county seat, is about 40 miles south of Houston. Brazoria County contains an area of about 1,422 square miles and is bordered by Harris County on the northeast, Fort Bend and Wharton Counties on the northwest, Galveston County on the east, Matagorda County on the west, and the Gulf of Mexico on the south.

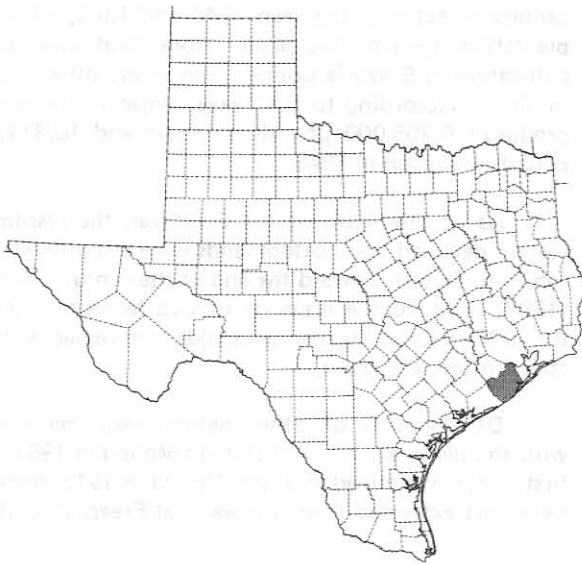


Figure 1.—Location of Brazoria County

Purpose and Scope of the Investigation

This investigation was a cooperative project of the U.S. Geological Survey and the Texas Water Development Board. The purpose of the investigation was to determine the occurrence, availability, dependability, quality, and quantity of the ground-water resources of Brazoria County. Special emphasis was placed upon delineating sources of water suitable for public supply, industrial use, and irrigation. The results,

as presented in this report, can be used as a guide in developing the available ground-water supplies.

Methods of Investigation

The following items were included in the investigation of the ground-water resources of Brazoria County:

1. An inventory was made of all industrial, public supply, and irrigation wells, and of a representative number of domestic and livestock wells (Table 7). Locations of the wells are shown on Figure 27.
2. Electrical logs and drillers' logs of water wells and oil tests were used to construct the hydrologic sections (Figures 28 and 29); and to construct maps showing the thickness of sands containing fresh water and slightly saline water (Figures 25 and 26), the thickness of sands in the aquifers (Figures 4 and 6), the altitude of the base of fresh water and of the base of slightly saline water (Figures 8 and 9), and the altitudes of the bases of the units of the Chicot aquifer (Figures 3 and 5).
3. An inventory was made of the withdrawal of ground water for public supply, irrigation, and industrial use.
4. Aquifer tests were made to determine the hydraulic characteristics of the water-bearing sands (Table 2).
5. Altitudes of water wells were determined from topographic maps.
6. Measurements of water levels were made in wells, and available records of past fluctuations of water levels were compiled (Tables 7 and 9, Figures 12-18).
7. Climatological records were compiled (Figure 11).
8. Analyses of water samples were made to determine the chemical quality of the water (Table 10).
9. Data were compiled on the subsidence of the land surface (Figures 22 and 23).

10. The hydrologic data were analyzed to determine the quantity and quality of ground water available for development.

11. Problems relating to the development and protection of ground-water supplies were studied.

Previous Investigations

Singley (1893) was the first to publish records of wells in Brazoria County. Taylor (1902) cited the presence of several irrigation wells. Darton (1905), Fenneman (1906), Taylor (1907), and Deussen (1914) published generalized studies of the Gulf Coastal Plain and other areas which included Brazoria County. Turner (1937) and Turner and Livingston (1939), listed 212 wells and test holes in Brazoria County together with representative chemical analyses and drillers' logs. The first report covered the area west of the Brazos River; the second treated that part of Brazoria County east of the Brazos. White and Sundstrom (1941) prepared an open-file report on the water resources in the vicinity of Freeport.

Follett (1947) discussed the water resources of the county and presented an inventory of 426 wells and test holes together with drillers' logs and chemical analyses.

Water levels in a few selected wells in Brazoria County have been measured, and some water samples have been collected systematically since 1949 as a part of the continuing ground-water program in Harris and Galveston Counties. The series of U.S. Geological Survey publications listing water-level measurements from the South-Central States includes measurements from Brazoria County. Between 1944 and 1954 these reports were issued annually as water-supply papers. Since then they have been issued every 5 years. The results of chemical analyses of water samples have been published in reports on the Houston District and Galveston County (see references cited).

Pettit and Winslow (1957) included parts of Brazoria County in their study of ground water in Galveston County. Other publications that have discussed or illustrated ground-water conditions in Brazoria County include: White, Rose, and Guyton (1944); Lang, Winslow, and White (1950); Wood (1958); Wood, Gabrysch, and Marvin (1963); Wood and Gabrysch (1965); and Gabrysch (1967).

Economic Development

Brazoria County, with an estimated population of 103,000 in 1967, ranks among the wealthier and more rapidly growing counties in Texas. It is considered a part of the Houston metropolitan area and is a leading producer of oil, petrochemicals, rice, cattle, and sea-water minerals.

The production of oil, natural gas, sand, clay, lime, sulphur, magnesium, salt, iodine, fluorine, and bromine form the basis of industrialization. Nine large chemical plants manufacture a variety of chemicals and chemical products; two extract minerals from sea water. The Department of the Interior maintains an experimental sea-water desalinization plant at Freeport which supplies fresh water to the Dow Chemical Company and the city of Freeport.

Brazosport is the name used for a group of cities constituting a large industrial complex near the mouth of the Brazos River. Brazosport has a population of approximately 42,000 people (1967). It includes Freeport, the largest city in the county; Lake Jackson, Clute, Richwood Village, Lake Barbara, and a number of unincorporated communities. Other cities in Brazoria County with a population of more than 1,000 are Alvin, Angleton, Brazoria, Pearland, Sweeny, and West Columbia.

Brazoria County has been an agricultural and cattle producing area since settlement, and for many years agriculture was the mainstay of the economy. By 1832, the towns of Columbia (now East Columbia and West Columbia) and Brazoria on the Brazos River were centers of activity. Between 1840 and 1860, when the plantation system flourished, more land was under cultivation in Brazoria County than in any other county in Texas. According to the Texas Almanac, the county produced 5,205,000 pounds of sugar and 10,314,000 pounds of cotton in 1848.

As an aftermath of the Civil War, the plantation system declined and bottom lands were left untended to return to forests. Toward the end of the century, Singley (1893) reported the presence of rice farms near Alvin. By 1920 rice had become the major crop replacing cane, corn, cotton, and grain.

Development of other natural resources started with the discovery of oil at Damon Mound in 1901. The first sulfur was mined at Bryan Mound in 1913. Minerals were first extracted from sea water at Freeport in 1939.

Well-Numbering System

The well-numbering system used in this report is the system adopted by the Texas Water Development Board for use throughout the State. Under this system, each 1-degree quadrangle in the State is given a number consisting of two digits. These are the first two digits in the well number. Each one-degree quadrangle is divided into 7½-minute quadrangles which are given two-digit numbers from 01 to 64. These are the third and fourth digits of the well number. Each 7½-minute quadrangle is subdivided into 2½-minute quadrangles and given a single digit number from 1 to 9. This is the fifth digit of the well number. Each well within a 2½-minute quadrangle is given a two-digit number as it is

inventoried. These are the last two digits of the well number.

Only the last three digits are shown on the well-location map (Figure 27). The second two digits are generally shown in the northwest corner of each 7½-minute quadrangle, and the first two digits are shown by the large double-line numbers.

In addition to the 7-digit well number, a two-letter prefix is used to identify the county. Prefixes for Brazoria and adjacent counties are as follows:

<u>COUNTY</u>	<u>PREFIX</u>	<u>COUNTY</u>	<u>PREFIX</u>
Brazoria	BH	Harris	LJ
Galveston	KH	Matagorda	TA

Thus, well BH-65-53-501 (which supplies water for the city of Angleton) is in Brazoria County (BH), in the 1-degree quadrangle (65), in the 7½-minute quadrangle (53), in the 2½-minute quadrangle (5), and was the first well (01) inventoried in that 2½-minute quadrangle.

Definition of Terms

The following technical terms, which appear later in the text, are defined here for the convenience of the reader.

Acre-foot.—The volume of water required to cover 1 acre to a depth of 1 foot (43,560 cubic feet or 325,851 gallons). This term is commonly used in measuring the volume of water used or the volume of water in storage in an aquifer or surface reservoir.

Aquiclude.—A formation which, although porous and capable of absorbing water very slowly, will not transmit water at a rate fast enough to furnish an appreciable supply to a well or spring.

Aquifer.—A formation, group of formations, or part of a formation that is water bearing.

Aquifer test, pumping test.—This test consists of measuring at specific time intervals the discharge and water level of the well being pumped and the water levels in nearby observation wells. Formulas have been developed to show the relationship of the yield of a well, the shape and extent of the cone of depression, and the properties of the aquifer (such as the specific yield, porosity, hydraulic conductivity, transmissivity, and coefficient of storage).

Aquifer test, recovery test.—This test consists of measuring at specific time intervals the water levels in the previously pumped well and the observation wells. (See definition: Aquifer test, pumping test.) Measurements are begun shortly after the pump is

stopped and are usually continued until the water levels rise or recover to their positions prior to the start of the test.

Artesian aquifer, confined aquifer.—Artesian (confined) water occurs where an aquifer is overlain by rock of lower permeability (for example clay overlying sand) that confines the water under pressure greater than atmospheric pressure. The water level in an artesian well will rise above the top of the aquifer. The well may or may not flow.

Artesian well.—One in which the water level rises above the top of the aquifer, whether or not the water flows at the land surface.

Electrical log.—A graphic log showing the relation of the electrical properties of the rocks and their fluid contents when penetrated in a well. The electrical properties are natural electrical potentials and resistivities to electrical currents that are modified by the presence of drilling mud.

Hydraulic gradient.—The slope of the water table or piezometric surface, usually given in feet per mile.

Permeability of an aquifer.—The capacity of an aquifer to transmit water under pressure.

Perennial stream.—One that flows continuously.

Piezometric surface.—An imaginary surface that everywhere coincides with the static level of the water in the aquifer. The surface to which the water from an aquifer will rise under its full head.

Recharge of ground water.—The process by which water is added to the zone of saturation. Also used to designate the quantity of water that is added to the zone of saturation, usually given in acre-feet per year or in million gallons per day.

Specific capacity.—The rate of yield of a well per unit of drawdown, usually expressed as gallons per minute per foot of drawdown. If the yield is 250 gpm and the drawdown is 10 feet, the specific capacity is 25 gpm per foot.

Specific yield.—The quantity of water that an aquifer will yield by gravity if it is first saturated and then allowed to drain; the ratio expressed in percentage of the volume of water drained to volume of the aquifer drained.

Transpiration.—The process by which water escapes from a living plant and enters the atmosphere.

Storage, coefficient of.—The volume of water that an aquifer releases from or takes into storage per unit surface area of the aquifer per unit change in the component of head normal to that surface. Storage coefficients of artesian aquifers may range from about

0.00001 to 0.001; those of water-table aquifers may range from about 0.05 to 0.30.

Transmissibility, coefficient of.—The rate of flow of water in gallons per day through a vertical strip of the aquifer 1 foot wide extending through the vertical thickness of the aquifer at a hydraulic gradient of 1 foot per foot and at the prevailing temperature of the water. The transmissibility from a pumping test is reported for the part of the aquifer tapped by the well.

Water level.—Depth to water, in feet below the land surface, where the water occurs under water-table conditions (or depth to the top of the zone of saturation). Under artesian conditions the water level is a measure of the pressure on the aquifer, and the water level may be at, below, or above the land surface.

Water table.—The upper surface of a zone of saturation except where that surface is formed by an impermeable body.

Saturated zone.—The zone in which the functional permeable rocks are saturated with water under pressure equal to or greater than atmospheric pressure.

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GROUND-WATER HYDROLOGY

General Geology

Geologic units containing fresh to slightly saline water in Brazoria County are the Goliad Sand, Willis Sand, Bentley Formation, Montgomery Formation, Beaumont Clay, and the Quaternary alluvium. These units range in age from Pliocene to Holocene (Table 1). One or more of these formations may be absent at any specific location due to non deposition or erosion.

The formations are similar in composition. Generally, sand, silt, and clay or shale compose most of the sediments. Lesser amounts of gravel and other materials such as marl, shell, and lignite are also present. Large quantities of salt occur in the form of salt domes. Minerals such as limestone, anhydrite, gypsum, and sulfur, are associated with the salt.

Faults are common, especially in the vicinity of salt domes, but surface traces of these faults are

practically indiscernible. Some salt domes are marked by surface expressions such as hills or sinks or a combination of both.

The age of the salt dome materials is not known and the time of emplacement of these materials in their present position has not been determined. Only the Beaumont Clay and the Quaternary alluvium are exposed on the surface in Brazoria County. Figure 2 is a geologic map showing the relative position of the outcrops of the units.

Most of the county is a nearly flat plain which rises to the northwest. The surface of the plain is the top of the Beaumont Clay. The Beaumont surface, composed mostly of clay-type soils, rises from a minimum altitude of several feet in the southeastern part of the county to about 65 feet in the northern part. The rest of the land surface is composed of coastal swamps, the Gulf of Mexico beach, the bay beaches, and two river-valley systems that transect the plain in a general northwest-southeast direction. The southeast corner of the county is a peninsula, the southwest extension of the Galveston Island barrier beach. Most of the surface sediments in the beach and river areas are sands.

The outcrops of the rest of the Beaumont Clay and of the older underlying units are in the counties northwest of Brazoria County. These units are also transected by the river valleys filled with Quaternary alluvium. With the exceptions of the Goliad Sand and Quaternary alluvium, the outcrops occur as bands roughly paralleling the coast line. According to Wilson, (1967, Table 1, page 11) the Goliad Sand crops out only in isolated surface exposures, usually along valley bottoms and walls.

The formations dip toward the Gulf at an angle greater than the slope of the land surface; therefore, they occur at progressively greater depths and thicken in a gulfward direction. Bernard, LeBlanc, and Major (1962, p. 219) suggest rates of dip for the following Pleistocene formations in the vicinity of the Brazos River: Willis Sand, 10 feet per mile; Bentley Formation, 3 feet per mile; Montgomery Formation, 2.5 feet per mile; and the Beaumont Clay, .18 feet per mile. According to Wilson (1967, p. 8) the base of the Goliad Sand dips gulfward at a rate of about 40 feet per mile in the outcrop areas. The dip of the base of the Goliad probably averages at least 40 feet per mile in Brazoria County. The upper beds of the Goliad Sand have an average dip of about 30 feet per mile in Brazoria County. However, the Goliad beds are displaced by numerous shallow and deep-seated structures underlying the county. The only noticeable displacement of younger beds by these structures are those that occur in the immediate vicinity of the seven salt domes which penetrate them. These are the Damon Mound, West Columbia, Allen, Clemens, Bryan Mound, Stratton Ridge, and Hoskin Mound Domes. Locations are shown on Figures 3, 4, 5, 6, 8, 25 and 26. The land surface is

distinctly elevated over four of these domes. Damon Mound, which rises approximately 80 feet above the surrounding plain to an altitude of 146 feet, is the highest point in Brazoria County. Electrical logs indicate saline water occurring at shallow depths over and near the Danbury Dome (Figure 8), but this dome is not known to pierce the aquifers.

Hydrologic Units and Their Water-Bearing Characteristics

Earlier investigators in the Gulf Coast region of Texas attempted to delineate aquifer units on the basis of geologic formations, but in the younger Gulf Coast sediments, the aquifers consist of parts of one or more geologic formations.

White, Rose, and Guyton (1940), and Lang, Winslow, and White (1950), subdivided the fresh water-bearing sediments in the Houston area (north of Brazoria County) into zones which were either predominantly sand or predominantly clay. They tentatively correlated these zones with the geologic formations at the outcrop. Zones 1, 3, 5, and 7 of Lang, Winslow, and White (1950) contain more sand than clay; zones 2, 4, and 6 contain more clay than sand. They also recognized that the individual beds of sand or clay are rarely continuous over long distances because they usually lense, grade into, and interfinger with each other.

Pettit and Winslow (1957) divided the beds in Galveston County geologically and mapped a separate massive unit, the Alta Loma Sand of Rose (1943). Wood and Gabrysch (1965) grouped zone 3 through part of zone 7 into one hydrologic unit which they called the "heavily pumped layer." Most multiscreened wells in the Houston area pump water from all or part of this layer, which underlies the Alta Loma Sand of Rose (1943). Baker and others (1963) and Baker (1965) grouped several geologic formations of the Gulf Coast into one unit called the Gulf Coast aquifer. This unit included all geologic formations or parts of formations containing fresh to slightly saline water. Hammond (1969) used this concept and separated a "heavily pumped zone" in Matagorda County.

Wesselman (1967) subdivided these same formations into four hydrologic units in Jasper and Newton Counties: the Jasper aquifer, Burkeville aquiclude, Evangeline aquifer, and Chicot aquifer. These subdivisions were based on differences in lithology, water levels in wells, and permeabilities. He correlated the Burkeville with zone 2 of Lang, Winslow, and White (1950); the Evangeline with the "heavily pumped layer" of Wood and Gabrysch (1965); and the Chicot with the Alta Loma and overlying beds.

The units used in this report (the Evangeline and Chicot aquifers) are extensions of the units as used in Louisiana and as used by Wesselman (1967, 1971).

Correlation of the geologic formations with the hydrologic units used in recent reports in the Houston District, Matagorda County, and Galveston County are shown in Table 1. Figures 28 and 29 are hydrologic sections showing these units.

Evangeline Aquifer

The Evangeline aquifer is a sequence of alternating sands and clays that thicken from about 2,000 feet at the northern edge of Brazoria County to more than 3,500 feet at the southern edge. The maximum thickness of the beds containing fresh and slightly saline water is about 1,100 feet. At most locations in the county, there is more sand than clay in the Evangeline. Although some sands and clays are continuous throughout much of the area, most units vary considerably in thickness from location to location. Thicknesses of individual beds of sand and clay generally range from a few feet to about 100 feet in the sections containing fresh and slightly saline water. However, in well BH-65-45-303, a single clay bed 150 feet thick is present; and downdip in the saline-water sections, some sand beds are as much as 150 feet thick.

The Evangeline aquifer is present in the subsurface everywhere in the county except for small areas where the salt domes pierce through the Evangeline and into the overlying Chicot beds. The average dip of the fresh water-bearing beds is approximately 30 feet per mile to the southeast. Over geologic structures, the dip approaches zero and may even be reversed to the northwest. Locally, dips away from the structures are more than 30 feet per mile. Only the upper beds of the Evangeline aquifer contain fresh water in Brazoria County.

The hydraulic properties of the Evangeline aquifer in Brazoria County have not been determined. However, the values determined from tests of the heavily pumped layer in the Houston District probably approximate those for the aquifer in Brazoria County. Wood and Gabrysch (1965) report that the coefficients of transmissibility measured by pumping tests generally are in the range from 75,000 to 150,000 gpd (gallons per day) per foot in the Houston District. The average permeability of the heavily pumped layer in the Houston District is about 250 gpd per square foot (Gabrysch, oral commun., 1968).

Based on electrical log interpretation, the maximum thickness of fresh-water sands in the Evangeline aquifer in Brazoria County is 415 feet. Therefore, if the maximum thickness is assumed to be about 400 feet and the average permeability is 250 gpd per foot, the maximum coefficient of transmissibility expected in a fresh-water well would be approximately 100,000 gpd per foot. According to Wood and Gabrysch (1965), the coefficient of storage in the heavily pumped layer, "... is about 0.001 to 0.002."

Table 1.--Geologic and Hydrologic Units Used in This Report and in Recent Reports in Adjacent Areas

GEOLOGIC CLASSIFICATION			Lang, J.W. and Winslow, A.G. (1950)	Wood, L.A. and Gabrysch, R.K. (1965)	Hammond, W.W., Jr. (1969)	Petitt, B.M., Jr. and Winslow, A.G. (1957)	THIS REPORT	
System	Series	Stratigraphic Unit	(Houston District)	(Houston District)	(Matagorda County)	(Galveston County)	Aquifer	Unit
QUATERNARY	Holocene	Quaternary alluvium	Recent	Confining layer	GULF COAST AQUIFER	Recent	CHICOT	Upper
	PLEISTOCENE	Beaumont clay	Beaumont clay			Beaumont clay		
		Montgomery Formation						
		Bentley Formation						
TERTIARY	PLIOCENE	Willis Sand	Alta Loma Sand of Rose (1943)	Alta Loma Sand of Rose (1943)		Alta Loma Sand of Rose (1943)	Lower	
TERTIARY	PLIOCENE	Goliad Sand	Zone 7	Heavily pumped layer	(approximate limits of beds considered)	Lissie Formation (approximate limits of beds considered)	EVANGELINE	(approximate base of beds mapped in this report)
			Zone 6					
			Zone 5					
	MIOCENE	Fleming Formation	Zone 4					
			Zone 3					

Chicot Aquifer

Separation of the Chicot aquifer from the Evangeline aquifer is based on differences in lithology, permeability, water level, and stratigraphic position. The Chicot is subdivided into two units. These subdivisions are designated the upper unit and the lower unit and are the same units as recognized in Chambers and Jefferson Counties (Wesselman, 1971). In most places the two units are separated by clay. In Brazoria County, the upper unit is either a water-table or artesian aquifer; the lower unit is an artesian or leaky artesian aquifer.

The approximate altitude of the base of the Chicot aquifer is shown on Figure 3. The unconformable contact has an average dip of about 20 feet per mile. The lowermost beds of the aquifer dip southeastward at about 10 feet per mile; the upper most beds at less than 2 feet per mile.

The basal bed of the Chicot aquifer in the southern part and in some areas of the northern part of the county is the massive sand described as the "Alta Loma" sand in Galveston County (Pettit and Winslow, 1957); and the Alta Loma Sand of Rose (1943) in the Houston District (Wood and Gabrysch, 1965). This sand is absent or greatly reduced in thickness in a large area in northern Brazoria County. This area is approximately delineated by the 100-foot thickness line on Figure 4, the map of sand thickness of the lower unit of the Chicot aquifer. The Alta Loma Sand and the sands above it which show similar water-level fluctuations are included in the lower unit of the Chicot aquifer in this report.

The basal sands of the Chicot aquifer can be distinguished on most electrical logs because they usually display a higher range of resistivity than the sands of the Evangeline. The ratio of the resistance shown by a sand on the electrical log divided by the resistivity of the water contained in the sand is the formation factor of the sand. The difference in formation factors for the sands of the Evangeline and Chicot was used in preparing the map of the base of the Chicot aquifer (Figure 3).

The upper unit of the Chicot aquifer consists of the interconnected shallower sands that are generally present between the surface and a depth of 100 to 300 feet, including the alluvium in the river valleys. The altitude of the base of the upper unit of the Chicot aquifer is shown on Figure 5 and the thickness of sand in this unit is shown on Figure 6.

The hydraulic characteristics of the Chicot aquifer in parts of Brazoria County were determined by aquifer tests. Table 2 lists the coefficients of transmissibility, coefficients of storage, and permeabilities of the aquifers as well as the specific capacities of the wells. The field coefficients of transmissibilities were as much as 275,000 gpd per foot for the lower unit and

66,000 gpd per foot for the upper unit. The maximum permeability for the sand in each unit exceeded 1,000 gpd per square foot. The minimum permeability was 130 gpd per square foot (well BH-81-06-209, upper unit); the maximum was 1,655 gpd per square foot (well BH-81-05-301, lower unit). Most of the tests showed field permeabilities in excess of 600 gpd per square foot, ranging from more than twice to six times the average assumed for the Evangeline aquifer. The lower permeability values from the tests in Brazoria County are comparable to those from tests of the same aquifer in adjacent counties. The higher values exceed any determined in Galveston County or in the Houston District, but are lower than some reported in Matagorda County. The highest permeability and coefficient of transmissibility values were obtained from tests of the upper and lower units of the Chicot aquifer in the vicinity of Freeport. As shown by Figures 4 and 6, thick sequences of sand occur in both of these units in this vicinity.

Wells completed in the Chicot aquifer in Brazoria County yield up to 2,600 gpm. Specific capacities of 11 wells (Table 2) ranged from 2.8 to 44.2 gpm per foot of drawdown. In all cases where tests were made to determine the coefficient of storage, the aquifer was under artesian conditions. Sixteen values were determined for the coefficient of storage; the range was from 0.00006 to 0.004. The coefficient of storage (specific yield) of the water-table part of the upper unit of the Chicot aquifer, though not determined, is estimated to be about 0.15.

Quality of Ground Water

Chemical analyses of water from wells in Brazoria County are given in Table 10. The analyses include those made by the U.S. Geological Survey, by other governmental agencies, and by commercial laboratories. The concentration of the chemical constituents is reported in milligrams per liter (mg/l). Table 3 lists the source and significance of the dissolved-mineral constituents and properties of water which are reported in the analyses. The factors which determine the suitability of a water for a particular use are the quality of the water and the limitations imposed by the use. Various criteria used in setting limitations are bacterial content, temperature, color, taste, odor, and concentration of chemical constituents in the water. No bacterial analyses were made in this study.

For many purposes, the dissolved-solids content is a major limitation on the use of water. A general classification of water based on the dissolved-solids content is as follows (modified from Winslow and Kister, 1956, p. 5):

Table 2.--Summary of Aquifer Tests in Brazoria County

WELL NUMBER	DATE	UNIT OF THE CHICOT	COEFFICIENT OF TRANSMISSIBILITY (GPD PER FT)	COEFFICIENT OF STORAGE	PERMEABILITY (GPD PER SQ FT)	SPECIFIC CAPACITY (GPD PER FOOT OF DRAWDOWN) (100 MINUTE RECOVERY UNLESS NOTED)
BH-65-38-601	Oct. 6, 1967	lower	78,000	0.0004	650	--
602	do.	lower	52,000	--	400	12.6
39-402	do.	lower	77,000	.0004	615	--
44-306	June 7, 1967	upper	17,000	--	845	5.8
50-101	June 19, 1967	lower	92,000	--	--	44.2
102	do.	upper & lower	70,000	--	--	--
51-902	Dec. 13, 1955	lower	7,000	--	--	6.2
52-903	Mar. 10, 1967	upper	42,000	--	--	12.6
58-607	July 2, 1951	upper	44,000	.0008	500	--
611	Mar. 13, 1951	upper	39,000	--	780	13.5 (60 min. rec.)
59-410	Feb. 24, 1943	upper	36,000	.0005	--	--
411	do.	upper	38,000	.0003	700	--
417	do.	upper	37,000	--	740	16 (one day rec.)
60-201	Mar. 10, 1967	upper	24,000	--	485	12.6 (60 min. rec.)
61-507	1953	upper	17,000	--	485	--
81-05-301	Oct. 4, 1967	lower	265,000	.0006	1655	--
304	1953	upper	38,000	.0003	1225	--
305	do.	upper	66,000	.0001	--	--
306	do.	upper	43,000	.0003	795	--
602	do.	upper	13,000	.00006	540	--
315	Oct. 4, 1967	lower	275,000	--	1620	35
317	do.	lower	248,000	.0005	1560	--
06-102	1953	upper	30,000	--	810	--
209	May 17, 1967	upper	2,000	--	130	2.8
421	May 18, 1967	upper	9,000	--	180	--
503	Oct. 4, 1967	lower	34,000	.004	215	--
505	1953	upper	18,000	.0001	580	--
506	do.	upper	19,000	.0001	610	--
506	do.	upper	18,000	.0001	580	--
514	Oct. 4, 1967	lower	98,000	.0007	720	--
517	do.	lower	95,000	--	575	6.4

Table 3.—Source and Significance of Dissolved-Mineral Constituents and Properties of Water

CONSTITUENT OR PROPERTY	SOURCE OR CAUSE	SIGNIFICANCE
Silica (SiO ₂)	Dissolved from practically all rocks and soils, commonly less than 30 mg/l. High concentrations, as much as 100 mg/l, generally occur in highly alkaline waters.	Forms hard scale in pipes and boilers. Carried over in steam of high pressure boilers to form deposits on blades of turbines. Inhibits deterioration of zeolite-type water softeners.
Iron (Fe)	Dissolved from practically all rocks and soils. May also be derived from iron pipes, pumps, and other equipment. More than 1 or 2 mg/l of iron in surface waters generally indicates acid wastes from mine drainage or other sources.	On exposure to air, iron in ground water oxidizes to reddish-brown precipitate. More than about 0.3 mg/l stains laundry and utensils reddish-brown. Objectionable for food processing, textile processing, beverages, ice manufacture, brewing, and other processes. U.S. Public Health Service (1962) drinking-water standards state that iron should not exceed 0.3 mg/l. Larger quantities cause unpleasant taste and favor growth of iron bacteria.
Calcium (Ca) and magnesium (Mg)	Dissolved from practically all soils and rocks, but especially from limestone, dolomite, and gypsum. Calcium and magnesium are found in large quantities in some brines. Magnesium is present in large quantities in sea water.	Cause most of the hardness and scale-forming properties of water; soap consuming (see hardness). Waters low in calcium and magnesium desired in electroplating, tanning, dyeing, and in textile manufacturing.
Sodium (Na) and potassium (K)	Dissolved from practically all rocks and soils. Found also in ancient brines, sea water, industrial brines, and sewage.	Large amounts, in combination with chloride, give a salty taste. Moderate quantities have little effect on the usefulness of water for most purposes. Sodium salts may cause foaming in steam boilers and a high sodium content may limit the use of water for irrigation.
Bicarbonate (HCO ₃) and carbonate (CO ₃)	Action of carbon dioxide in water on carbonate rocks such as limestone and dolomite.	Bicarbonate and carbonate produce alkalinity. Bicarbonates of calcium and magnesium decompose in steam boilers and hot water facilities to form scale and release corrosive carbon dioxide gas. In combination with calcium and magnesium, cause carbonate hardness.
Sulfate (SO ₄)	Dissolved from rocks and soils containing gypsum, iron sulfides, and other sulfur compounds. Commonly present in mine waters and in some industrial wastes.	Sulfate in water containing calcium forms hard scale in steam boilers. In large amounts, sulfate in combination with other ions gives bitter taste to water. Some calcium sulfate is considered beneficial in the brewing process. U.S. Public Health Service (1962) drinking-water standards recommend that the sulfate content should not exceed 250 mg/l.
Chloride (Cl)	Dissolved from rocks and soils. Present in sewage and found in large amounts in ancient brines, sea water, and industrial brines.	In large amounts in combination with sodium, gives salty taste to drinking water. In large quantities, increases the corrosiveness of water. U.S. Public Health Service (1962) drinking-water standards recommend that the chloride content should not exceed 250 mg/l.
Fluoride (F)	Dissolved in small to minute quantities from most rocks and soils. Added to many waters by fluoridation of municipal supplies.	Fluoride in drinking water reduces the incidence of tooth decay when the water is consumed during the period of enamel calcification. However, it may cause mottling of the teeth, depending on the concentration of fluoride, the age of the child, amount of drinking water consumed, and susceptibility of the individual. (Maier, 1950)
Nitrate (NO ₃)	Decaying organic matter, sewage, fertilizers, and nitrates in soil.	Concentration much greater than the local average may suggest pollution. U.S. Public Health Service (1962) drinking-water standards suggest a limit of 45 mg/l. Waters of high nitrate content have been reported to be the cause of methemoglobinemia (an often fatal disease in infants) and therefore should not be used in infant feeding. Nitrate has been shown to be helpful in reducing inter-crystalline cracking of boiler steel. It encourages growth of algae and other organisms which produce undesirable tastes and odors.
Dissolved solids	Chiefly mineral constituents dissolved from rocks and soils. Includes some water of crystallization.	U.S. Public Health Service (1962) drinking-water standards recommend that waters containing more than 500 mg/l dissolved solids not be used if other less mineralized supplies are available. Waters containing more than 1000 mg/l dissolved solids are unsuitable for many purposes.
Hardness as CaCO ₃	In most waters nearly all the hardness is due to calcium and magnesium. All the metallic cations other than the alkali metals also cause hardness.	Consumes soap before a lather will form. Deposits soap curd on bathtubs. Hard water forms scale in boilers, water heaters, and pipes. Hardness equivalent to the bicarbonate and carbonate is called carbonate hardness. Any hardness in excess of this is called non-carbonate hardness. Waters of hardness as much as 60 ppm are considered soft; 61 to 120 mg/l, moderately hard; 121 to 180 mg/l, hard; more than 180 mg/l, very hard.
Specific conductance (micromhos at 25°C)	Mineral content of the water.	Indicates degree of mineralization. Specific conductance is a measure of the capacity of the water to conduct an electric current. Varies with concentration and degree of ionization of the constituents.
Hydrogen ion concentration (pH)	Acids, acid-generating salts, and free carbon dioxide lower the pH. Carbonates, bicarbonates, hydroxides, and phosphates, silicates, and borates raise the pH.	A pH of 7.0 indicates neutrality of a solution. Values higher than 7.0 denote increasing alkalinity; values lower than 7.0 indicate increasing acidity. pH is a measure of the activity of the hydrogen ions. Corrosiveness of water generally increases with decreasing pH. However, excessively alkaline waters may also attack metals.

DESCRIPTION	DISSOLVED-SOLIDS CONTENT (MG/L)
Fresh	Less than 1,000
Slightly saline	1,000 to 3,000
Moderately saline	3,000 to 10,000
Very saline	10,000 to 35,000
Brine	More than 35,000

The U.S. Public Health Service (1962, p. 7) has established standards for the chemical quality of water to be used by common carriers engaged in interstate commerce. These standards are useful in evaluating domestic and public water supplies. According to these standards, chemical substances should not be present in a water supply in excess of the listed concentrations whenever more suitable supplies are available or can be made available at reasonable cost. The following are the limits of concentration for some of the constituents.

SUBSTANCE	CONCENTRATION (MG/L)
Chloride (Cl)	250
Fluoride (F)	0.8*
Iron (Fe)	.3
Manganese (Mn)	.05
Nitrate (NO ₃)	45
Sulfate (SO ₄)	250
Dissolved solids	500

* According to the U.S. Public Health Service (1962, p. 41), the maximum fluoride level depends on the climatic conditions because the amount of water drunk is influenced primarily by the air temperature. The maximum value of 0.8 mg/l in Brazoria County is based on the annual average of daily maximum air temperature of 79.5°F at Angleton. The minimum desirable concentration is 0.6 mg/l.

In addition to meeting the chemical-quality standards of the U.S. Public Health Service, the water should be free of odor and turbidity; and it should not contain color to the extent that it is objectionable to the user. The water should not be excessively corrosive to the water-supply system.

Water containing concentrations of chloride exceeding 250 mg/l in combination with sodium, may have a salty taste. Fluoride in drinking water reduces the incidence of tooth decay, especially in young children; however, concentrations greater than the recommended limitations may cause mottling of the teeth. Excessive iron and manganese in the water supply tends to stain utensils and discolor laundry and fixtures. Water having a nitrate content greater than 45 mg/l is potentially dangerous for infant feeding as it has been related to

infant cyanosis or "blue baby" disease. Large nitrate concentrations may also indicate pollution by sewage or organic material. Excessive sulfate concentrations often produce a laxative effect.

The hardness of water, caused mainly by calcium and magnesium, is important in a water supply although no limits have been established by the U.S. Public Health Service. Excessive hardness causes an increase in the consumption of soap and induces the formation of scale in hot water heaters and water pipes. A common classification of water hardness is given in the following table:

HARDNESS RANGE (MG/L)	CLASSIFICATION
60 or less	Soft
61 to 120	Moderately hard
121 to 180	Hard
More than 180	Very hard

The chemical quality necessary for industrial water depends on the intended use. Three principal categories of industrial use of ground water are cooling, boiler, and process. Each of these categories has different water-quality requirements. Hem (1959, p. 253) and Todd (1959, p. 186-187) summarize water-quality tolerances for a number of industries.

Corrosiveness is one of the principal factors considered in evaluating water for industrial use. Sodium chloride, acids, oxygen, and carbon dioxide are substances that make water corrosive. Scale may be caused by excessive calcium, magnesium, iron, or silica in the water. Water to be used for cooling should have a rather constant temperature. Process water should have a constant chemical quality to insure a uniform product.

The suitability of water for irrigation depends partly upon the chemicals present in the water and the effect of these chemicals on plants and soil. The suitability is affected by the type of crop, soil structure and composition, irrigation and drainage methods used, and climate. Some of the more important chemical characteristics that are considered in the evaluation of water for irrigation use are: (1) The relative proportion of sodium to other cations, an index of the sodium or alkali hazard; (2) the concentrations of soluble salts, an index of the salinity hazard; (3) the amount of residual sodium carbonate; and (4) the concentration of boron in the water.

A classification frequently used for judging the quality of water for irrigation was proposed by the U.S. Salinity Laboratory Staff (1954, p. 69-82). The classification is based primarily on the salinity hazard as measured by the electrical conductivity of the water, and the sodium hazard as measured by the SAR

(sodium-adsorption ratio). Figure 7 shows a diagram of this classification and the results of 86 chemical analyses plotted according to the aquifer from which the water was pumped.

The classification of irrigation water proposed by the U.S. Salinity Laboratory may not be strictly applicable in Brazoria County. Wilcox (1955, p. 15-16) stated that the classification was not applicable to supplemental irrigation water used in areas of high rainfall. He further suggested that generally water would be safe for supplemental irrigation if its conductivity was less than 2,250 micromhos per centimeter at 25°C and if its SAR was less than 14. In Brazoria County where rainfall is high, the classification would probably not apply to row crops such as cotton, which are irrigated only when rainfall is deficient. Also, the rice-pasture rotational-planting system affords salinity control by allowing leaching of the collected salts from the soil during periods when rice is not grown.

The RSC (residual sodium carbonate) is another factor used in judging the suitability of water for irrigation. Excessive RSC may cause the water to be alkaline, causing the organic material in the soil to dissolve. Wilcox (1955, p. 11) suggests the following limits for the RSC content of irrigation waters: More than 2.5 me/l (milliequivalents per liter) not suitable; 1.25 to 2.5 me/l, marginal; and less than 1.25 me/l, safe. RSC was calculated for 90 of the analyses listed in Table 10. The values of these calculations ranged from 0.13 to 9.17 me/l. Seventy percent (63) of the values exceeded the 2.5 me/l limit. Fifteen of the values fell in the 1.25 to 2.5 epm or marginal range, and only 12 of the values were less than 1.25 epm or in the safe range. The limits of RSC may be extended with good irrigation practices in this area of high rainfall; however, RSC could be a problem where the soil is predominantly clay.

Boron is essential to plant growth, but it is toxic at concentrations only slightly more than the optimum value. Scofield (1936, p. 286) indicated that a boron concentration of 1 mg/l is permissible for irrigating most boron-sensitive crops; a concentration of 3 mg/l is permissible for the more tolerant crops. Most small grains and cotton are considered semi-tolerant to boron. Boron determinations were made in 21 of the analyses given in Table 10. Boron exceeded 1 mg/l in only one sample (1.9 mg/l in well BH-65-44-602).

Rice is moderately tolerant to salinity. According to Shutts (1953, p. 871-884), the commonly accepted tolerances of rice are as follows:

CONCENTRATION OF SALTS AS SODIUM CHLORIDE (MG/L)	TOLERANCE
600	Tolerant at all stages.
1,300	Rarely harmful and only to seedlings in dry, hard soil.
1,700	Harmful before tillering; tolerable for jointing to heading.
3,400	Harmful before booting; tolerable from booting to heading.
5,100	Harmful at all stages.

The type of water was determined for 163 of the analyses that are listed in Table 10. All the waters were of the bicarbonate or chloride types. The following listing shows the number and type of analyses for each aquifer or combination of aquifers.

	CU*	CL	E	C ^{1/}	CU & CL	CU CL & E	CL & E	TOTAL
Magnesium bicarbonate	2	—	—	—	—	—	—	2
Calcium bicarbonate	25	—	—	—	—	—	—	25
Sodium bicarbonate	39	15	1	—	5	2	5	67
Sodium chloride	18	44	1	2	2	—	2	69
TOTAL	84	59	2	2	7	2	7	163

* CU-Upper unit of the Chicot aquifer; CL-Lower unit of the Chicot aquifer; E-Evangeline aquifer; C-Chicot aquifer.
^{1/} Intermediate depth wells (300 feet to 400 feet) in area where upper and lower units are not definable.

Magnesium bicarbonate and calcium bicarbonate type waters were found only in the upper unit of the Chicot aquifer. The freshest water in the lower unit of

the Chicot aquifer and the Evangeline aquifer is of the sodium bicarbonate type. The magnesium bicarbonate water came from wells 35 feet and 125 feet deep. The

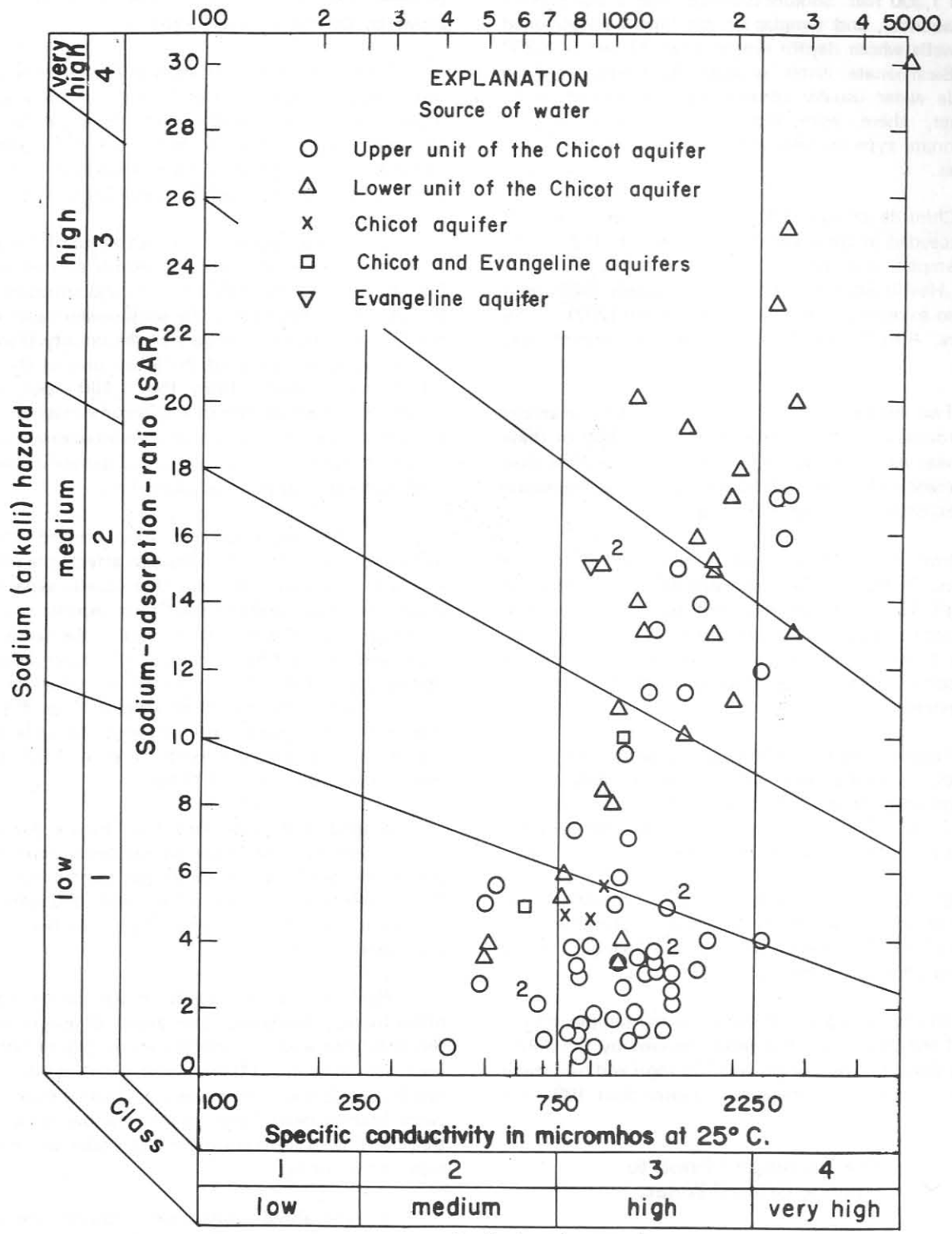


Figure 7
Classification of Irrigation Waters

calcium bicarbonate waters came from wells whose depths ranged from 37 to 350 feet. Sodium bicarbonate water occurs in every aquifer and samples of this type were obtained from wells whose depths ranged from 37 feet to 1,300 feet. Sodium chloride water is also present in all aquifers, and samples of this type were obtained from wells whose depths ranged from 30 feet to 1,200 feet. Bicarbonate water is generally fresher; sodium chloride water usually contains more dissolved solids. However, there were eight slightly saline sodium bicarbonate type analyses and 24 fresh sodium chloride analyses.

Chloride concentrations of more than 250 mg/l was exceeded in approximately 40 percent (153) of the 366 samples analyzed for that constituent. The U.S. Public Health Standard for dissolved solids (500 mg/l) was also exceeded in more than 80 percent (202) of 244 samples. Almost one-third (77) of the samples were saline.

Two hundred seventy six samples were analyzed for hardness as CaCO_3 . Water from nearly half of these (134) was very hard (more than 180 mg/l) and less than 10 percent (24) were soft (0-60 mg/l). The maximum hardness determined was 2,000 mg/l.

Iron determinations were made in 57 of the analyses. Twenty-four analyses showed iron in excess of 0.3 mg/l; 18 of the samples were from the upper unit of the Chicot aquifer. The source of this iron is not known. It may have been indigenous to the water or it may be the result of interaction of the water and the iron of the well system.

Fluoride determinations were made in 97 of the analyses. Twenty-eight of these exceeded the recommended limit of 0.8 mg/l. The maximum value was 2.2 mg/l. Thirty-nine showed less than the desirable minimum concentration of 0.6 mg/l.

Of the 126 nitrate determinations, none were in excess of the Public Health Standards. Water from well BH-65-47-108 (96 feet deep) contained 45 mg/l of NO_3 , the limit set by the standards.

The concentration of sulfate in any sample did not exceed the 250 mg/l limit recommended by the Public Health Service. The highest was 178 mg/l and only eight analyses showed concentrations greater than 100 mg/l.

Relationship of Fresh to Saline Ground Water

The following is a discussion of the relationship of fresh to saline ground water in Brazoria County. For a more complete and generalized explanation and discussion of this relationship, the reader is referred to Winslow, Doyel, and Wood (1957). Their discussion on the subject as it pertains to Harris County includes a review of the literature.

The altitude of the base of fresh water is shown by Figure 8; the altitude of the base of the slightly saline water is shown by Figure 9. In most of Brazoria County there is no smooth or constant trending interface between the fresh and saline water; therefore, contours shown by the maps are very irregular.

Two distinct relationships between fresh and salt water are evident in the Chicot and Evangeline aquifers underlying Brazoria County. Away from salt domes, the less dense fresh water floats on the salt water. This relationship is modified by the interbedding of the sands and clays that form the aquifers and aquicludes.

Large irregularities in the altitudes of the base of fresh water occur in the northeastern part of Brazoria County (around the 1,200-foot closed contour) and in the vicinity of Brazoria in the southwestern part (within the 200 foot closed contour) of the county (Figure 8). In the northeast, sands of the lower unit of the Chicot are thinnest. Away from the 1,100 foot contour (Figure 8), the sands thicken and become massive; and the Evangeline and Chicot aquifers are interconnected. The interconnection allows an avenue of natural discharge of fresh water down dip in the Evangeline.

In the southwestern area around Brazoria, interconnection of the aquifers also affects the interface. In much of the area, the clay that usually separates the upper and lower units of the Chicot aquifer is replaced by sand. Also, the clay that overlies the sands of the upper unit of the Chicot in much of Brazoria County is replaced by sands of the Quaternary alluvium in the Brazos and San Bernard River systems. Thus, the Chicot aquifer is in hydraulic continuity with the surface, and a natural area of discharge exists. In part of this area, no fresh water occurs below 100 feet.

Smaller anomalies shown on Figure 8 near Old Ocean, Sweeny, and Danciger probably outline areas where the sands are in hydraulic continuity. Similar interconnection may exist in the beds deposited across the top of the Allen, Clemens, West Columbia, Danbury, and Damon Mound Domes.

Near the salt domes, fresh and saline water are often found interbedded. The quality of ground water in the salt-dome areas is deteriorated by one or both of at least two processes: (1) the water dissolves salt from the dome, or (2) water from deeper, high pressure, saline water-bearing sands flows up into the overlying aquifers through flow ways formed along the sides and across the tops of the domes.

A generalized illustration showing the upward movement, published by Hanna (1958, p. 11, Figure 8), is reproduced here as Figure 10. Hanna described the movement as follows: "Water in these sloping beds is under artesian head. Figure 10 is an idealized block diagram showing how these artesian waters in the formation will flow upward around a salt dome if an escape route is available. Water does not move down

around these salt domes but upward and goes into the shallow sands or to the surface."

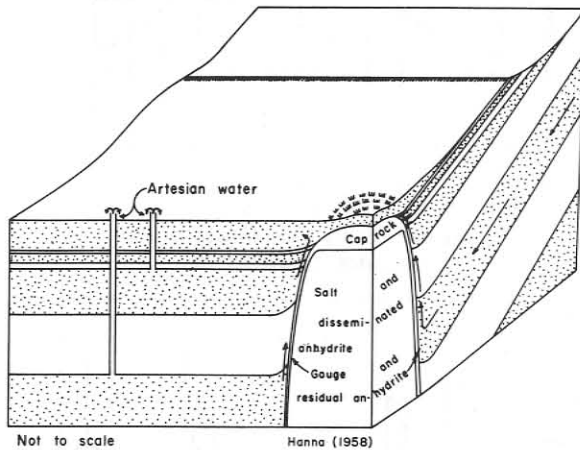


Figure 10.—Circulation of Water Around Salt Domes

Although the occurrence and quality of ground water in the salt-dome areas of Brazoria County indicate that Hanna's statement is true; heavy pumpage from the lower Chicot and Evangeline aquifers in the Gulf Coast area have changed the pressure relationships between the aquifers and probably changed the flow patterns of the water.

Some interbedding of fresh and saline water in Brazoria County was apparently caused by domes outside of the county. The electrical log of well BH-65-30-407 (Figure 28) indicates that saline water occurs in sands between 1,100 and 1,500 feet deep, and that fresh water occurs above and below this zone. This saline water probably originates in the vicinity of the dome at Pierce Junction in Harris County. Electrical logs indicate that saline water in the Chicot aquifer overlies fresh water in the Evangeline aquifer in west-central Brazoria County, along the Brazoria-Matagorda County line. The saline water probably entered the Chicot aquifer at Boling Dome in Wharton and Fort Bend Counties or at Damon Mound in Brazoria County. The saline water in the lower unit of the Chicot at well BH-65-29-802 (indicated by electrical log) probably was introduced to these beds at the Blue Ridge Dome which is about 5 miles to the northwest in Fort Bend County.

Because of the local complexity of ground water occurrence in the salt-dome areas, more detailed studies in these areas are needed. With these studies, observation programs should be initiated and maintained.

Recharge, Movement, and Discharge of Ground Water

Recharge

The principal source of the fresh ground water in Brazoria County is rainfall on the outcrops of the aquifers. The climate of Brazoria County and the counties to the north is predominantly maritime. Annual rainfall is abundant. Temperature and precipitation data for Angleton in Brazoria County are given in Figure 11.

Except for a few sands in the upper unit of the Chicot, the aquifers crop out and are recharged in the counties to the north of Brazoria County. In part of the outcrop area, according to Wilson (1967), "The Goliad Sand, which composes much of the Evangeline aquifer, is overlapped by the Willis Sand in most places. Recharge to the Goliad must occur by percolation of water through the Willis into the sandy units of the Goliad."

The Willis Sand is the lowermost part of the Chicot in Brazoria County. The other Chicot sands are recharged at the outcrops north and west of Brazoria County, and south of the area described by Wilson.

The principal factor determining the rate of recharge is the ability of the aquifers to transmit water. Because this ability depends on the hydraulic gradient, development that increases the hydraulic gradient causes more recharge to take place. Assuming an outcrop 30 miles wide and 40 miles long (1,200 square miles), about 0.75 of an inch of recharge would be required to replace the 1967 use of ground water (43 mgd) in Brazoria County. Two inches would be required to replace a use of 115 mgd.

Rate and Direction of Movement

Ground water moves under the influence of gravity from areas of recharge to areas of discharge. The general direction of movement of fresh water before development was down gradient and toward interconnected areas in the major alluvial systems, such as the ones that transect central and western Brazoria County.

Heavy withdrawals from the artesian aquifers in Galveston and Harris Counties have created cones of depression in the piezometric surface which extend into Brazoria County. In 1968 the movement of water in the eastern part of the county, except at local cones of depression, was from the west and southwest to the east and northeast into Galveston and Harris Counties. The water levels in wells completed in the artesian aquifers were below sea level along the eastern side of the alluvial

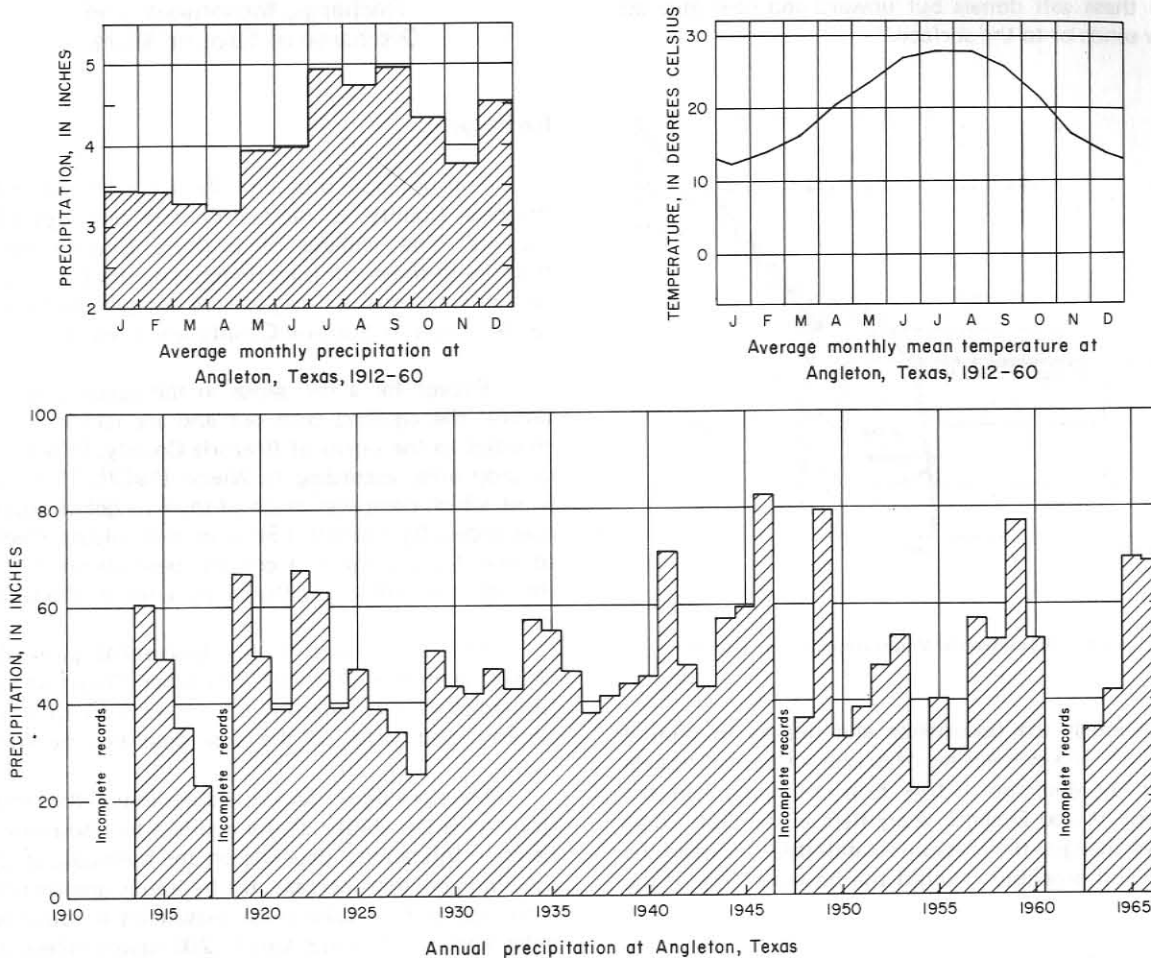


Figure 11.—Annual and Monthly Precipitation and Average Monthly Temperature at Angleton

areas. Head relationships indicate that a reversal of movement has been induced in the interconnected areas. Water now moves vertically downward rather than upward from the previously deeper and higher pressured sands. This probably has caused a small reduction in the amount of water being discharged to the streams.

Assuming a coefficient of transmissibility of 75,000 gpd per foot for the lower unit of the Chicot and a gradient of 5 feet per mile along a line 24 miles long, about 9 mgd of fresh water is moving by underflow across northeastern Brazoria County toward Galveston and southern Harris Counties. Four mgd is being intercepted by wells in Brazoria County. Thus, in this area of Brazoria County, about 5 mgd of fresh water is passing into the other two counties in the Chicot aquifer.

Based on an estimated coefficient of transmissibility of 100,000 gpd per foot and a gradient of 21 feet per mile in the Evangeline aquifer, about 29 mgd of fresh water passes across a line 14 miles long in

northern Brazoria County toward Harris County. Probably less than 1 mgd is being pumped from the Evangeline in northern Brazoria County. The combined movement out of the county in the two aquifers is estimated to be at least 33 mgd.

Different water-level relationships, rates of movement, and directions of movement occur in the upper unit of the Chicot aquifer, which is under water-table conditions in some areas and under artesian conditions in other areas. Except where there are local cones of depression, as in the area of heavy withdrawals from artesian sands at Brazosport, head relationships and movement patterns are much the same today as they have always been. Until the aquifer was developed by man, the perennial streams of the area received water from the aquifer and water levels were lowest where the streams drained water from the aquifer. Since development, water levels have been lowered below sea level in the Brazosport area and the aquifer may be receiving some recharge from the San Bernard and

Brazos Rivers. If so, the location and degree of interconnection are not known.

Discharge

Most discharge from the aquifers in Brazoria County is by wells. As described in the preceding sections, some water probably flows from the deeper aquifers into the overlying units and to the surface. However, pumpage has lowered the hydraulic head and reversed the direction of movement in the aquifers in most of the county.

Discharge of ground water by natural processes such as seeps, springs, evaporation, and transpiration occurs only from the water table part of the upper unit of the Chicot. According to Kane (1967), the gross lake surface evaporation in Brazoria County averaged 49 inches per year for the period 1940-65. This is approximately equal to the average rainfall.

Water Levels in Wells

Before the large scale withdrawal of ground water began, a natural equilibrium existed in the aquifers. The altitudes of the original water-level surfaces are unrecorded, but Singley (1893) reported the presence of a number of flowing wells. By 1900, wells were developed in all of the aquifers and flowing wells were common in Harris, Galveston, and Brazoria Counties.

The altitudes of water levels in wells screened in the Chicot aquifer are shown in Figures 12, 13, 14, 15, and 16.

The approximate altitudes of water levels in wells screened in the lower unit of the Chicot aquifer in 1946 are shown in Figure 12. This map shows a general eastward movement of water and indicates cones of depression in the Angleton, West Columbia, and Clemens Dome areas. The large cone shown south of Brazoria was caused by withdrawals of water used to mine sulphur beginning in 1937.

The approximate altitudes of water levels in 1967 measured in wells screened in the same unit are shown in Figure 13. This map shows cones of depression in the Hastings, Alvin, Manvel, Danciger, Angleton, Brazoria, West Columbia, and Pearland areas. Comparisons of Figures 12 and 13 show a general lowering of levels of 20 to 40 feet in the county. Away from the cones of depression, the contours on both maps trend in a general north-south direction and show the effect of the withdrawals from this aquifer in Galveston and Harris Counties.

Water levels measured in wells screened in the upper unit of the Chicot aquifer are shown in Figure 14. Contours of water levels in area I show the cone of

depression in the Brazosport area during the period 1941-43. The measurements made in areas II, III, and IV were the earliest of record in these areas. The contours shown in area V define a cone of depression at Hoskins Mound in 1945, which was caused by a steady withdrawal of water for sulfur mining from 1922 to 1950.

The approximate altitudes of water levels measured in wells screened in the upper unit of the Chicot aquifer during the period 1954-56 are shown in Figure 15. By comparison with Figure 14, this map shows that the cone of depression in the Brazosport area had enlarged since the 1941-43 period.

The approximate altitudes in 1967 of water levels in wells completed in the upper unit of the Chicot aquifer are shown in Figure 16. This map, compared with Figures 14 and 15, shows that water levels at the center of the Brazosport cone of depression have continued to decline. Other cones of depression occur at Manvel, Danbury, Old Ocean, Clemens Dome, and Sweeny.

Comparison of areas II, III, and IV on Figure 14 with the same areas on Figure 16, shows that away from the cones of depression, there was a general lowering of water levels of 5 to 10 feet between measurements at most locations. Greater differences occur in the vicinity of the cones of depression.

Water-level measurements that are higher than those made in surrounding areas are enclosed by the 10- and 20-foot contour lines between Angleton and West Columbia (Figure 16). This "high", located between the Brazos River and its tributaries, is probably a recharge mound where the aquifer is receiving recharge directly from the surface. Many such mounds probably occur in the sands that crop out between the Brazos River and its tributaries in Brazoria County.

Hydrographs of 14 wells in Brazoria County are shown in Figures 17 and 18. These hydrographs show a gradual decline in water levels with time. The rate of decline is dependent on the distance from centers of pumpage and from areas of recharge to the wells. The greatest rate of decline for the period of record is shown by the hydrograph of well BH-65-30-601 in which the water level declined almost 100 feet during the 22 years of record. The well is completed in the Evangeline and lower unit of the Chicot aquifer, near the areas of pumping in Galveston and Harris Counties.

In general, the hydrographs of the wells completed in the upper unit of the Chicot aquifer do not show as great a rate of decline as do the hydrographs in the deeper aquifers. The hydrograph of well BH-81-06-406 shows the greatest rate of decline in this unit. The well, which is owned by the city of Freeport, is located near

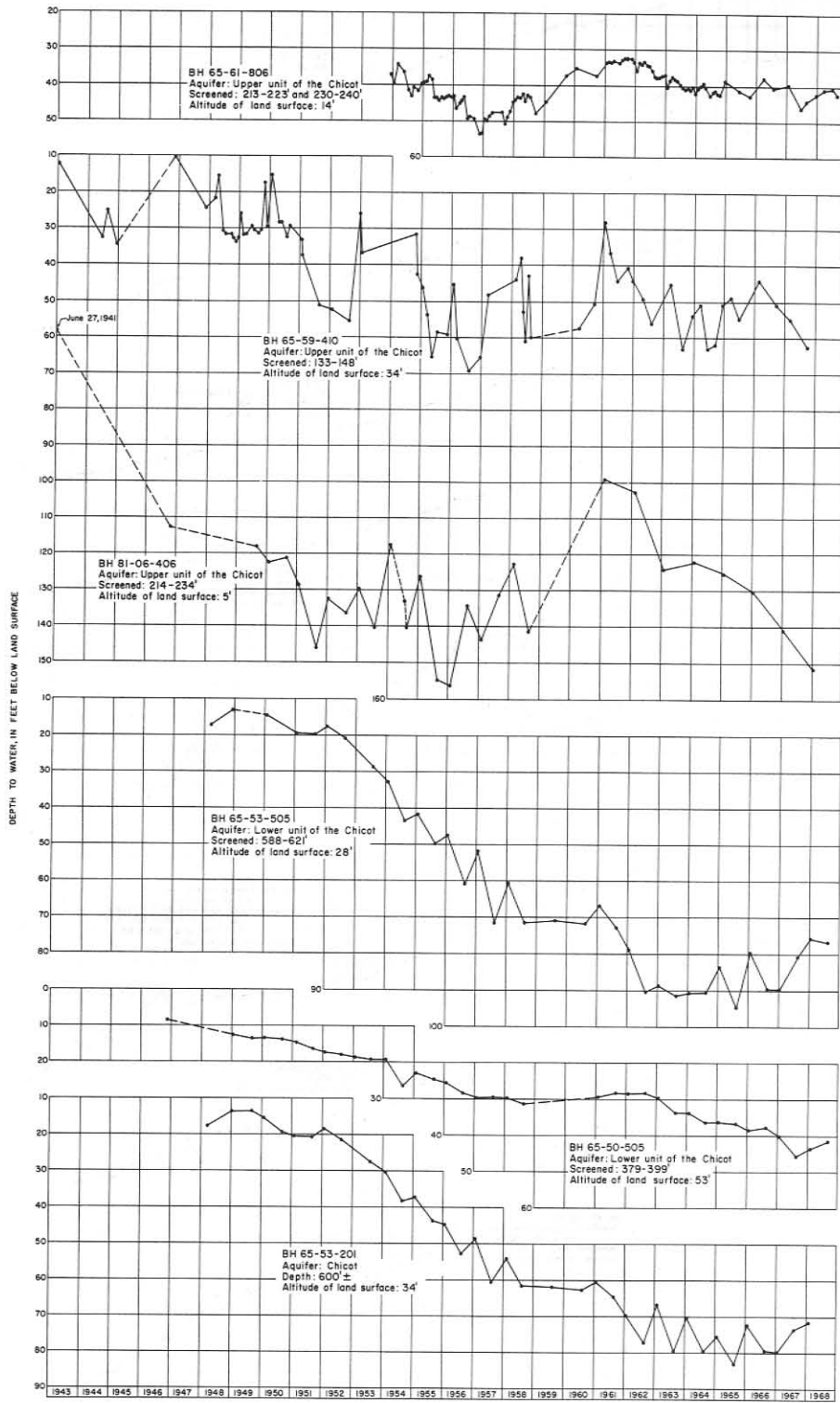


Figure 17
Hydrographs Showing Changes of Water Levels in Selected Wells

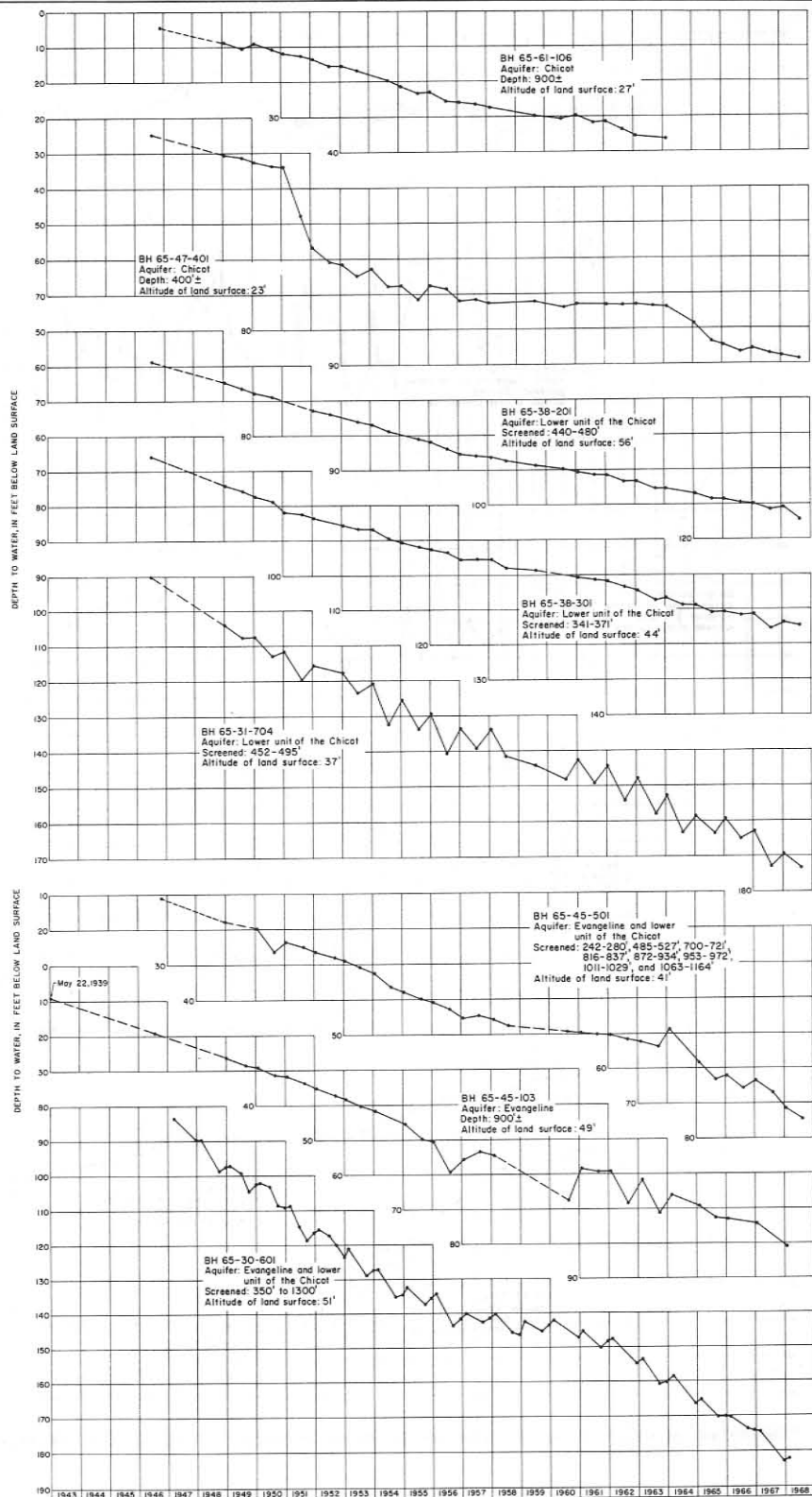


Figure 18

Hydrographs Showing Changes of Water Levels in Selected Wells

the center of the Brazosport cone of depression. Water levels in this well declined at a rate of almost 11 feet per year in the period 1941-46; then the rate of decline decreased to about 2.4 feet per year in the period between 1946-58. Between 1958 and 1961, water levels recovered; but between 1961 and 1968 the levels declined at a rate of 7.6 feet per year. These fluctuations in water levels correlate with ground water withdrawals in the area.

Estimates of water-level declines that will be caused by pumping may be made if the hydrologic characteristics of the aquifer are known. The theoretical relationship between drawdown and distance from the

center of pumping for different coefficients of transmissibility Figure 19. Calculations of drawdown are based on a withdrawal of 1 mgd for 1 year from an aquifer having coefficients of transmissibility and coefficients of storage as shown. For example, if the coefficient of transmissibility and coefficient of storage are 50,000 gpd per foot and 0.001, respectively; the drawdown or decline in the water level would be 12 feet at a distance of 1 mile from a well or group of wells discharging 1 mgd for 1 year. If the coefficient of transmissibility and coefficient of storage are 5,000 gpd per foot and 0.0001, respectively, the same pumping rate for the same time would cause 84 feet of decline at the same distance.

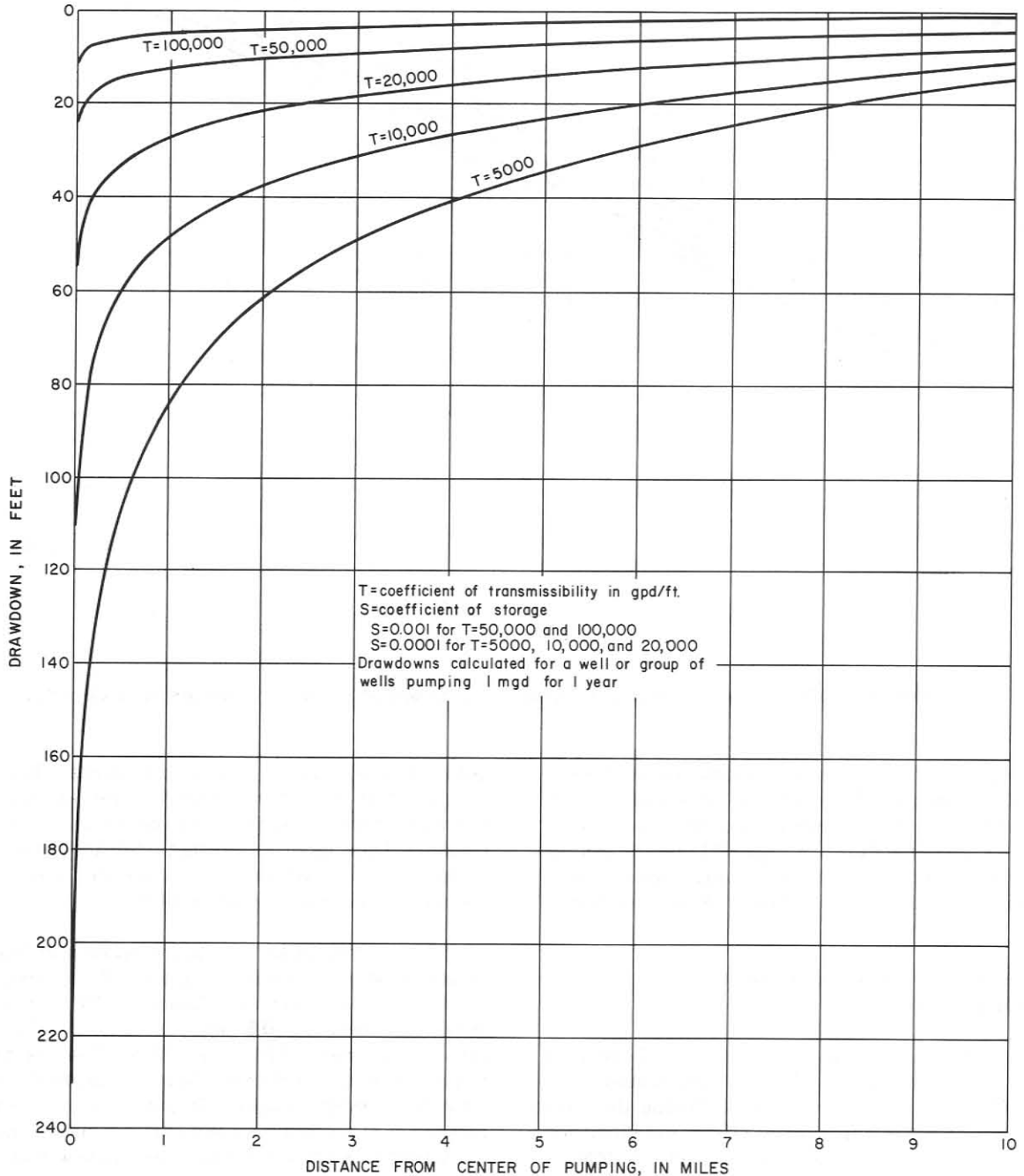


Figure 19.—Relation of Drawdown to Transmissibility and Distance

Figure 20 shows the relation of drawdown to distance and time as a result of pumping from an aquifer with characteristics similar to those found in the aquifers in Brazoria County. This figure shows that the rate of drawdown decreases with time. For example, if the drawdown at 100 feet from a well is 11 feet after 1 mgd has been pumped for 1 year, the drawdown would be

about 15 feet after 1 mgd has been pumped for 100 years. The total drawdown at any one place within the cone of depression (or influence) of several wells is the sum of the influences of the several wells. The equilibrium curve is the time-drawdown relation when a line source of recharge is 25 miles from the point of discharge.

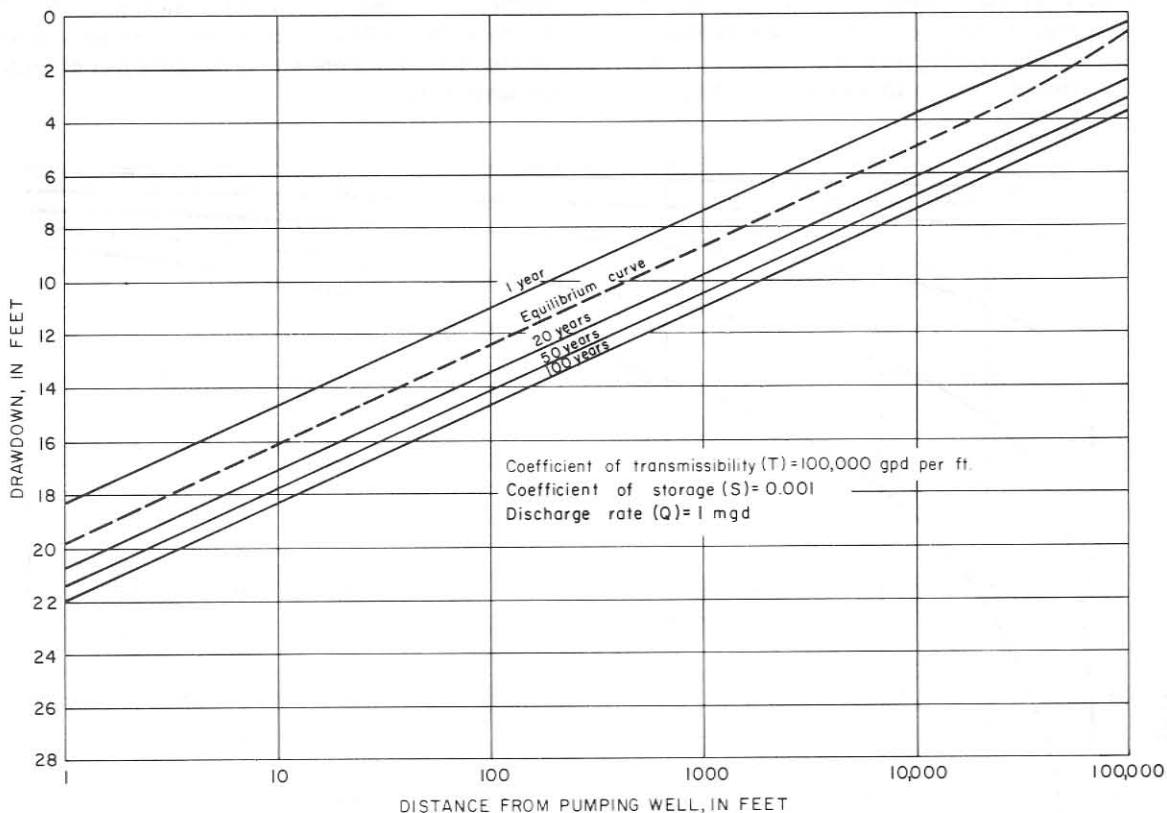


Figure 20.—Relation of Drawdown to Time and Distance as a Result of Pumping Under Artesian Conditions

The relation of drawdown to distance and time as a result of pumping from a water-table aquifer with characteristics similar to small parts of the upper unit of the Chicot aquifer is shown in Figure 21. The drawdown is less than that in an artesian aquifer because under water-table conditions the coefficient of storage is larger.

Relation of Water-Level Declines to Land-Surface Subsidence

A discussion of part of Brazoria County is included in a number of reports that discuss subsidence in the Houston and Galveston areas. Among these are the reports of Pettit and Winslow (1957) and Wood and Gabrysch (1965). The most recent study is that of

Gabrysch (1967) which expands the Houston District to include all of Galveston County and parts of Brazoria, Chambers, Liberty, Montgomery, Waller, and Fort Bend Counties. These reports show that subsidence of the land surface has resulted primarily from the lowering of pressures in the ground-water aquifers.

The extent of land-surface subsidence in Brazoria County is shown in Figure 22. Data in the northern part of the county are taken from Gabrysch (1967). The lines show that between 0.5 and 1.5 feet of subsidence occurred between 1943 and 1964. The subsidence mapped in northern Brazoria County is based on widely separated bench marks. Because local cones of depression in the water surface occur in these localities, subsidence may be greater than is indicated in Figure 22.

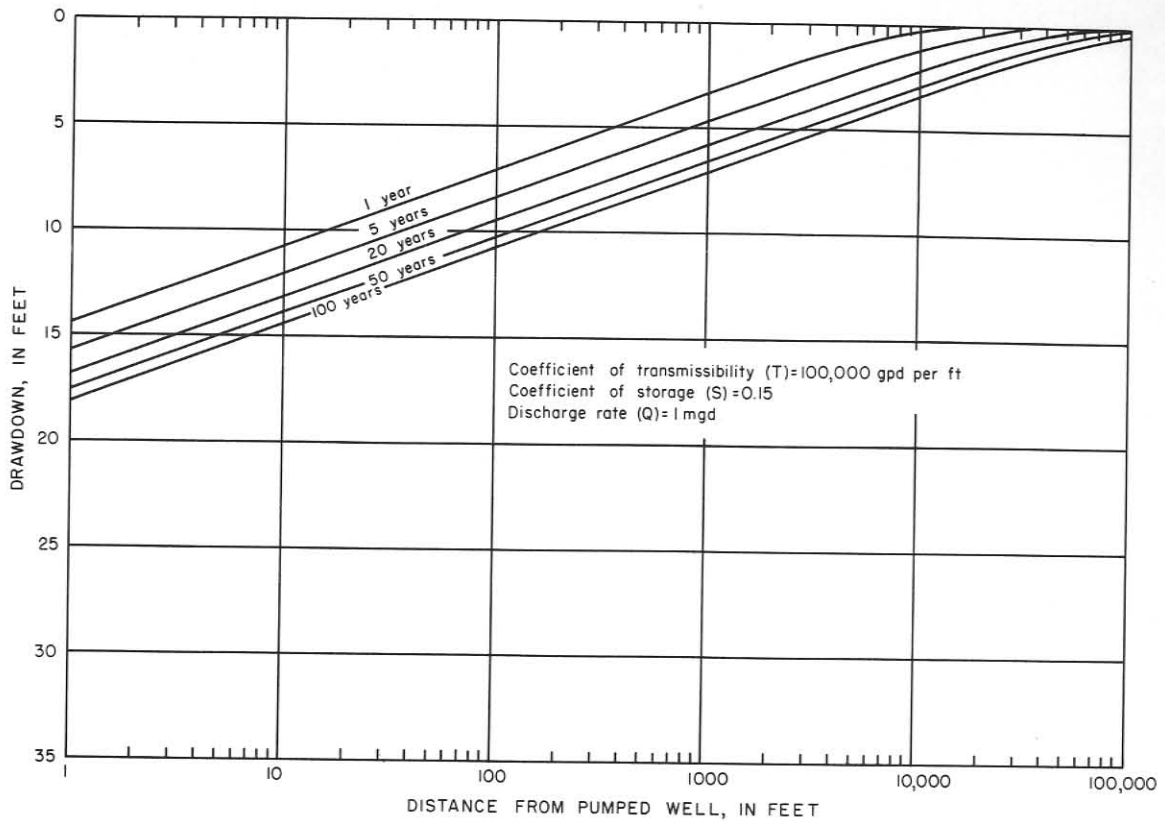


Figure 21.—Relation of Drawdown to Time and Distance as a Result of Pumping Under Water-Table Conditions

The data indicate that as much as 1.6 feet of subsidence occurred in the Freeport area between 1918 and 1959. This area was not relevelled in 1964. Localized cones of depression occur at Danciger and Old Ocean where the subsidence may be greater than that shown in Figure 22; however, data are not available to show the magnitude of the subsidence in these areas.

Comparison of subsidence at four bench marks in Freeport, with water-level measurements made in a nearby well, is shown in Figure 23. This illustration shows that the ratio of land-surface subsidence to water-level decline in this area is about 1 to 100. Water-level measurements in well BH-81-06-406 were selected for comparison because the well is completed in the upper unit of the Chicot aquifer. Most of the compaction has probably taken place in the finer material of the upper unit where most of the pressure decline has occurred.

In southwestern Brazoria County, there has been no large decline in water levels, and in some areas there may have been none. Therefore, probably little or no subsidence has occurred. However, local subsidence caused by the extraction of water, salt, or sulphur has probably occurred in the vicinity of Danciger, Old Ocean, Bryan Mound, Clemens Dome, and Hoskins

Mound. Subsidence caused by the extraction of oil, gas, and water has probably occurred in the vicinity of all of the developed oil fields.

DEVELOPMENT AND USE OF GROUND WATER

Singley (1893) was the first to publish information on ground water in Brazoria County. Although little is recorded about the use of ground water prior to that time, some aspects of development may be inferred from the history of the area.

During the great storm of 1528, three of Cabeza de Vaca's barges were washed ashore in Brazoria County (Davenport and Wells, 1918). Two foundered on San Luis Island and one ran aground in the mouth of the San Bernard River. Following the practice of the Karankawa Indians, the shipwrecked survivors obtained fresh drinking water from holes dug in the beach sand on the offshore bar. They probably were the first explorers to use ground water in the region.

Continuous withdrawal of ground water started with early settlement of the area in 1824, mainly along the Brazos River, which served as an artery of

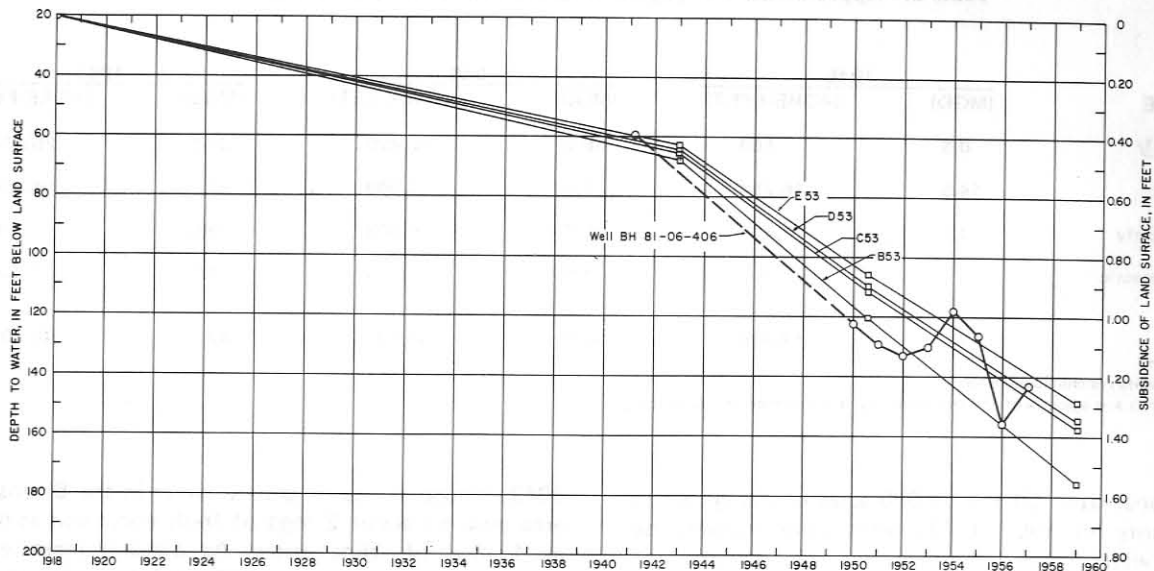


Figure 23.—Subsidence of Bench Marks Compared to Changes in Water Levels in Well BH-81-06-406 at Freeport

communication upstream to Washington-on-the-Brazos. Between 1840 and 1860, more land was under cultivation in Brazoria County than in any other county in the State. The principal crops were cotton and cane. Although no records were found, it is probable that some use was made of ground water for irrigation during the plantation era. Following the abolition of slavery, the plantations were abandoned, and agriculture became almost dormant.

Singley (1893) listed one well on a rice farm near Alvin that flowed 100,000 gpd and two wells in the Brazosport area at Surfside and Velasco whose combined discharge was reported to be about 1,300,000 gpd. All three wells were completed in the lower unit of the Chicot aquifer.

By 1900, and for some time afterward, flowing wells were common. Taylor (1907) cites the presence of 16 flowing wells. Half of these, located in or near the Brazosport area, were developed in the lower unit of the Chicot and reportedly flowed about 2 mgd. Columbia (near present-day West Columbia) was another center of discharge. One 10-inch well in the upper unit of the Chicot 3 miles north of Columbia reportedly flowed 150,000 gpd. Taylor probably did not report all of the wells that flowed. It is estimated that as much as 6 mgd of water was being withdrawn from wells by pumps or natural flow in the first decade of this century.

Deussen (1914) reported that many of the 67 wells he listed were used for "rice and truck irrigation." At this time flowing wells discharged about 2.8 mgd. Wells were located near or at Brazosport, Columbia, Alvin, Liverpool, and at salt domes.

Flowing wells were still common in the late thirties, but by 1943 the piezometric surface had been sufficiently lowered so that there were few flowing wells left in Brazoria County. None were found in 1967.

The total use of fresh and saline water during 1967, including sea water used to produce magnesium and other products, is given in Table 4. Of the total use, about 1 percent was ground water.

Table 4.—Usage of Surface Water and Ground Water, 1967

TYPE OF WATER	USAGE	
	MGD	ACRE-FEET *
Ground water	43	48,200
Fresh surface water	417	467,460
Sea water	3,503	3,926,860
	3,963	4,442,520

* Figures rounded to nearest 10 acre-feet.

The pumpage of ground water in the county by type of use is shown in Table 5. Ground-water pumpage for the larger cities in Brazoria County is given in Table 6.

More ground water is used for irrigation than for any other purpose in Brazoria County (Table 5). Most of the irrigation water is used to grow rice and row crops such as cotton and maize. In 1967, 4 mgd of the reported 22.6 mgd used was used to maintain lake levels at

Table 5.—Approximate Pumpage of Ground Water, 1945, 1966, and 1967

USE	1945		1966		1967	
	(MGD)	(ACRE-FEET)	(MGD)	(ACRE-FEET)	(MGD)	(ACRE-FEET)
Irrigation ^{1/}	0.5	560	20.0	22,420	22.6	25,334
Industrial	14.5	16,254	9.5	10,649	12.7	14,236
Public supply	1	1,121	5.8	6,502	6.6	7,398
Rural domestic	—	—	1.0	1,121	1.1	1,233
Total*	16	17,935	36.3	40,692	43	48,201

^{1/} Includes recreational use.

* Figures are approximate because some pumpage is estimated.

recreational sites. Of the 54,000 acres of rice grown in the county in 1967, 6,700 acres were irrigated by ground water.

The second largest use of ground water is industrial. From 1913 to 1940, the extraction of sulfur from salt domes by the Frasch process ^{1/}constituted the largest use of ground water. At each of three sulfur mines (Bryan Mound, Hoskins Mound, and Clemens Dome), about 2 mgd was reportedly used during the respective periods of operation. By 1958, all of the original sulfur mines were closed.

Other industrial use of ground water began in 1935 with the construction of an oil refinery at Danciger. Today (1969), the largest users are the industrial plants in the Brazosport area. Originally, all industrial water needs were met by ground water. By

^{1/} A method of mining in which superheated water is forced into and melts the sulfur deposits. The molten sulfur is then pumped to the surface.

1943, industrial use of ground water in the Brazosport area grew to about 2 mgd of fresh water and as much as 4 mgd of saline water. As demand increased, a surface-water supply was developed from the Brazos River, and the use of saline ground water was discontinued. By 1962, industry was obtaining more than 95 percent (228 mgd) of its fresh water needs from surface water. Industrial usage of ground water reached a peak of about 13 mgd between 1950 and 1958; in 1960, usage declined to an estimated 9.2 mgd. By 1967, it had increased again to nearly 13 mgd.

Public supply and rural domestic use (including consumption by animals) of ground water was almost 8 mgd in 1967. Drinking water, except for less than 0.5 mgd produced from the desalinization plant at Freeport, is obtained exclusively from the ground.

Table 6.—Municipal Usage of Ground Water

MUNICIPALITY	1960 POPULATION	1960 PER CAPITA CONSUMPTION (GALLONS)	(MILLIONS OF GALLONS PER DAY)					
			1945	1955	1960	1965	1966	1967
Alvin	5,643	127	0.150	0.517	0.714	0.736	0.719	0.852
Angleton	7,312	77	.100	.459	.566	.957	.901	.917
Brazoria	1,291	69	—	.147	.089	.129	.137	.156
Clute	4,501	76	—	.125	.342	.359	.517	.417
Freeport	11,619	127	.380*	1.360	1.475	1.547	1.226	1.618
Lake Jackson	9,651	61	.200	.365	.588	.794	.876	.993
Pearland	1,497	65	—	.077	.098	.238	.276	.369
Sweeny	3,087	58	—	.125	.178	.297	.253	.287
West Columbia	2,947	82	.175	.163	.242	.277	.279	.312
TOTAL	47,458	90	1.005	3.338	4.292	5.334	5.184	5.921

* Includes City of Velasco, now a part of Freeport.

WELL CONSTRUCTION

Well construction in Brazoria County depends on several factors, such as the desired capacity of the well, the intended use of the water, the allowable cost of construction, and the methods employed by the individual drillers. Most of the recently constructed small-capacity wells, such as those used for rural domestic and livestock needs, were drilled by hydraulic-rotary equipment. The wells range from 3 to 6 inches in diameter with 2- to 4-inch casing and screens commonly being used. Each well is normally completed with a single interval of screen (4 to 20 feet in length) which is set in the water-bearing unit. Most of these wells are equipped with jet-type or submersible pumps powered by electric motors.

Large-capacity wells such as those used for irrigation, industry, or public supply are drilled by hydraulic-rotary methods. First a test hole (usually 6 inches in diameter) is drilled and logged for depth and thickness of sand intervals. Water samples may be collected for use in determining water quality and aquifer characteristics. If the test-hole log and other data indicate that sufficient water-bearing sands are present, the test hole is then reamed to make the well.

Construction of municipal or industrial wells usually differs from that of rice-irrigation wells. A public-supply or industrial well is screened in selected sand units, while irrigation wells generally use slotted casing extending from near the surface or from a few hundred feet below the surface through the entire depth of the well. This practice does not always produce the best quality of water that is available. Selective screening of new wells would probably result in better quality water in the areas where waters of different qualities are interbedded. Installation of slotted casing above the pumping level should be avoided because water (and entrained air) cascading into the well may decrease pump efficiency and durability.

The upper part of the test hole of a municipal and industrial well is usually reamed to 14 to 30 inches in diameter. A slightly smaller surface casing is set and cemented in place to form the pump pit. The remaining part of the test hole is then reamed to a diameter slightly less than that of the surface casing. The interval to be screened is then underreamed as desired, usually to 30 inches in diameter. Eight- to 12-inch diameter wire-wrapped screens and blank casing are installed. Next, the annular space between the screen or casing and the wall of the hole is filled with sorted gravel. This gravel pack stabilizes the hole and provides a transfer medium for water moving from the sand into the well, thus increasing the effective diameter of the well.

The test hole for an irrigation well is usually reamed for the entire depth of the well, and a complete string of slotted casing and surface casing is installed. The space between the casing and the wall of the hole is

filled with gravel from the bottom of the well to the surface.

Large-capacity wells are developed and tested with large-capacity test pumps. The wells are then fitted with deep-well turbine pumps powered by internal combustion engines or electric motors. Fawcett (1963) discusses methods used for construction of such wells in the Houston area.

PROTECTION OF GROUND WATER IN OIL FIELD OPERATIONS

Considerable amounts of brine are produced in Brazoria County in connection with the production of oil. If mishandled through improperly cased or plugged oil wells or tests, these brines can move upward from the underlying higher pressured and salt-water bearing formations into zones of fresh and slightly saline water. To prevent this, the Texas Railroad Commission requires that brines be produced and disposed of in ways that will not contaminate fresh water.

The depth of the sands containing fresh to slightly saline water (in those oil fields for which field rules exist) and the amount of cemented casing required according to published rules of the Texas Railroad Commission are shown in Figure 24. The location of the oil or gas fields is shown in Figure 27. These data show that in some fields the fresh to slightly saline water is not adequately protected; but in most it is adequately protected.

In 1961, 52,717,840 barrels of brine (6,795 acre-feet, or 2,214 million gallons) were produced from the oil reservoirs of Brazoria County according to the Texas Water Commission and Texas Water Pollution Control Board (1963). Most of this brine, 50,305,023 barrels (6,485 acre-feet or 2,113 million gallons), was disposed of through salt-water injection wells, which returns the brine to subsurface salt-water-bearing units. However, 2,378,494 barrels (307 acre-feet or 99,896,748 gallons) were discharged into open surface pits, another potential source of contamination. This hazard was recognized by the Texas Railroad Commission which issued a "no-pit" order for the entire State, effective January 1, 1969.

AVAILABILITY OF GROUND WATER

The thicknesses of sand containing fresh and slightly saline water in the lower unit of the Chicot aquifer and in the Evangeline aquifer are shown in Figures 25 and 26, respectively. A patterned line on each map designates the approximate down-dip boundary of that type water in the Evangeline aquifer.

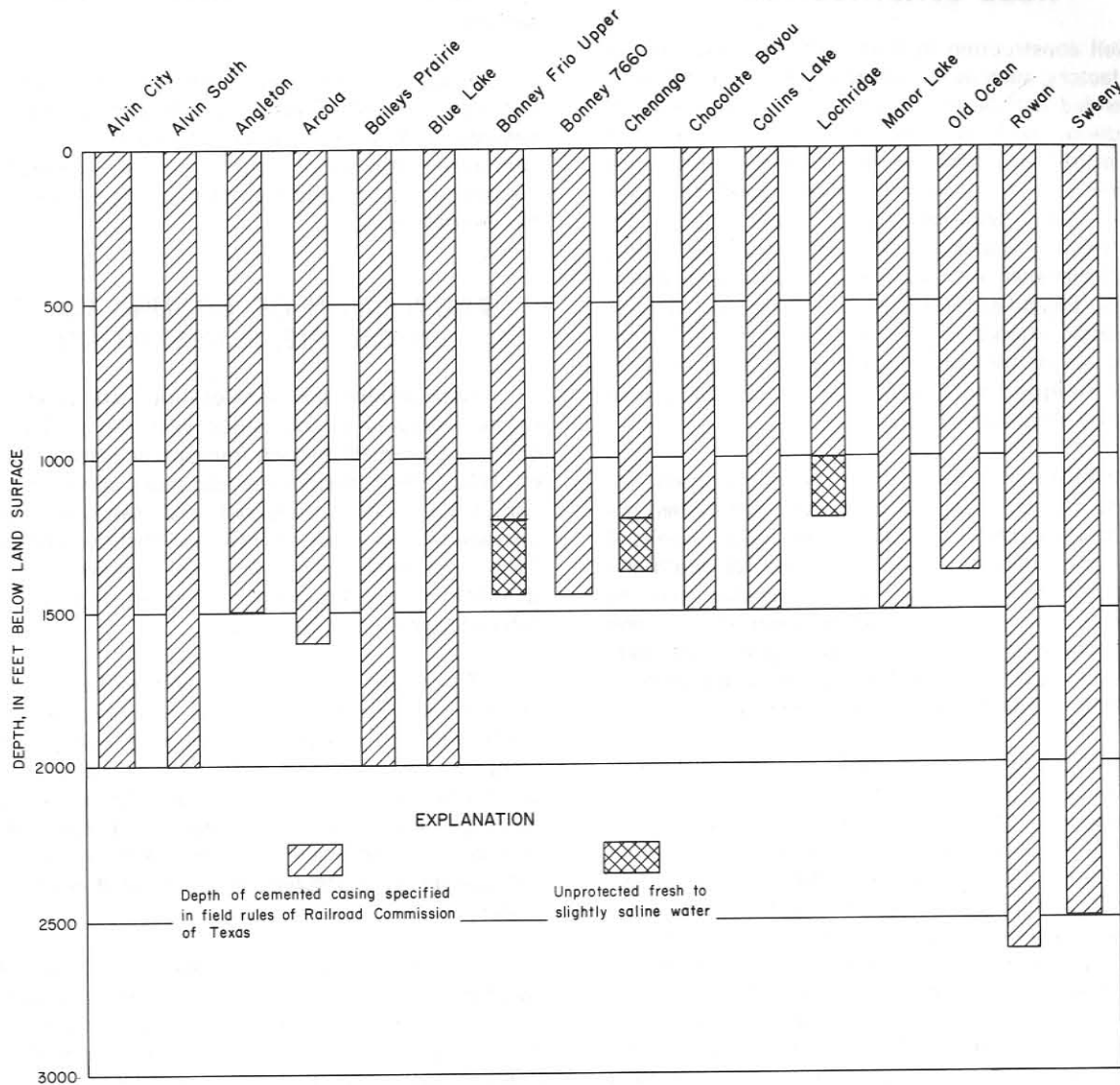


Figure 24.—Comparison Between Surface-Casing Requirements in Oil Fields and Base of Sands Containing Slightly Saline Water

Evangeline Aquifer

Fresh water occurs in this aquifer north of the line shown on Figure 25. This line delineates an area of approximately 550 square miles. Within this area, the fresh-water sand thickness is as much as 415 feet and averages more than 150 feet. The deepest fresh water is about 1,800 feet below the land surface.

Wells yielding fresh water at a rate of 1,000 gpm from this aquifer are possible in much of this area. Along the northern boundary of the county, wells yielding more than 1,000 gpm probably can be constructed. However, determination of the proximity of the saline-water interface and the occurrence of interbeds of saline water should be made and evaluated before any large wells are constructed.

The Evangeline aquifer has as much as 230 feet of sand containing slightly saline water (Figure 26). However, this thickness is a local occurrence. No large bodies of slightly saline water were found in this aquifer.

Lower Unit of the Chicot Aquifer

The zero line on Figure 25 marks the southern-most occurrence of fresh water in the lower unit of the Chicot aquifer in Brazoria County. As much as 290 feet of fresh-water sand is present. An average thickness of more than 100 feet is present in the area north of the line marking the southern boundary of fresh water in the Evangeline aquifer. However, saline water-bearing sand is interbedded with the fresh water-bearing sand in some areas. An evaluation of the

effect of the presence of these interbeds on the quality of water should be made before development.

The Chicot aquifer has a high coefficient of transmissibility; therefore, where the thickness of fresh water-bearing sand exceeds 100 feet, fresh water wells having a capacity of between 1,000 and 3,000 gpm can be constructed. Small supplies of fresh water can be developed from the lower unit of the Chicot aquifer in the area between the line showing the limit of fresh water in the Evangeline aquifer and the line showing the limit of fresh water in the lower unit of the Chicot (Figure 25). However, where the fresh and slightly saline water is interbedded, even a small-capacity fresh-water well may not be feasible.

The lower unit of the Chicot aquifer contains a large amount of slightly saline water. Through the central part of the county, sand thickness of more than 100 feet and as much as 300 feet bear this type of water (Figure 26). Large (tens of mgd), sustained withdrawals of this water could be made without excessive drawdown.

Large wells (3,000 gpm or more) producing saline water can be constructed anywhere in Brazoria County where the lower unit of the Chicot contains 100 feet or more of saline water-bearing sand. Wells that produce slightly and moderately saline water from this unit have been constructed and used by industry in the Freeport area.

Upper Unit of the Chicot Aquifer

The most widespread fresh-water aquifer in Brazoria County, and the only aquifer containing fresh water in much of the southern part of the county, is the upper unit of the Chicot aquifer. It supplies all water for public supply and domestic use as well as part of the water used by industry in the Brazosport area. It is utilized by the industries and towns in the Sweeny and Old Ocean areas. Because of the large drawdown in the area, the thin section of fresh-water sand, and the proximity of water of poorer quality, the aquifer is fully developed and may be overdeveloped in the Brazosport area.

Maps showing the approximate altitude of the base of the upper unit of the Chicot aquifer and the total sand thickness are presented as Figures 5 and 6. Data were insufficient to delineate the part of the aquifer that contained fresh water. The deepest occurrence of the aquifer is approximately 350 feet, and the greatest observed sand thickness is 213 feet.

Fresh-water sand thickness in most of the county is less than 100 feet and probably averages about 75 feet in the central, south, and western parts of the county. There is less than 50 feet of sand in this aquifer in much

of the northeastern part of the county. Interbedding of saline water with the fresh water in these beds occurs in many areas. Except at Freeport, the aquifer contains little or no fresh water in a band several miles wide along the coast.

Where at least 50 feet of fresh-water sand is present, fresh-water wells that yield 500 to 1,000 gpm probably can be constructed. Where more than 100 feet of fresh-water sand is present, wells that yield 1,000 to 3,000 gpm can be constructed.

SUMMARY

The ground-water resources in the northern parts of Brazoria County are only partly developed. Large additional supplies exist. A limited, rather fully developed resource exists in the southern part of the county. Consideration of the proximity of poorer quality water is a prerequisite to development of successful wells or well fields in all parts of the county.

NEEDS FOR FURTHER STUDIES

The observation-well program that obtains data on both quality of water and water levels should be continued and expanded so as to fully cover Brazoria County. Extension of this program into the counties to the west would also be beneficial to future planning. In conjunction, a program of testing new water wells should be inaugurated to obtain additional information on the hydraulic properties of the aquifers. Water samples should be collected to determine the extent of fresh water and to monitor the movement of saline water from the sea, from oil field contamination, and from salt domes. Observation wells and detailed studies are needed especially in the Brazosport area and in the area north and west of Alvin.

Data derived from measurements of subsidence are useful in determining ground-water availability. Knowledge of the amount and rate of subsidence is especially important in planning surface-drainage and water-transfer facilities. A program for measuring subsidence is needed in Brazoria County. This program should be coordinated with the program of collecting water-level, water-quality, and pumpage data, so that correlations can be made between cause and effect.

Electrical analog models are useful in the evaluation of aquifers because they enable rapid simulation of pumpage and drawdown patterns. Such a model, which included part of Brazoria County, has been completed in the Houston District (Wood and Gabrysch, 1965). A data-collection program should be inaugurated to refine and extend this model to include all of Brazoria County.

REFERENCES CITED

- Baker, B. B., Dillard, J. W., Souders, V. L., and Peckham, R. C., 1963, Reconnaissance investigation of the ground-water resources of the Sabine River Basin, Texas: Texas Water Comm. Bull. 6307, 57 p., 7 figs., 8 pls.
- Baker, E. T., Jr., 1965, Ground-water resources of Jackson County, Texas: Texas Water Devel. Board Rept. 1, 225 p., 31 figs., 4 pls.
- Bernard, H. A., LeBlanc, R. J., and Major, C. F., 1962, Recent and Pleistocene geology of southeast Texas, in *Geology of the Gulf Coast and central Texas and guidebook of excursions*: Houston Geol. Soc., Ann. Meeting Geol. Soc. America and assoc. soc., Houston, Texas, p. 175-224.
- Darton, H. H., 1905, Preliminary list of deep borings in the United States: U.S. Geol. Survey Water-Supply Paper 149.
- Davenport, Harbert, and Wells, Joseph K., 1918, The first Europeans in Texas, 1528-1536: *The Southwestern Hist. Quart.*, v. 22, no. 2, p. 111-142.
- Deussen, Alexander, 1914, Geology and underground waters of the southeastern part of the Texas coastal plain: U.S. Geol. Survey Water-Supply Paper 335, p. 154-176.
- Fawcett, A. E., 1963, Hydraulic gravel packing for deep water wells: *Natl. Water Well Assoc. Jour.*, Ground Water, v. 1, p. 16.
- Fenneman, N. M., 1906, Oil Fields of the Texas-Louisiana Gulf Coastal Plain: U.S. Geol. Survey Bull. 282.
- Follett, C. R., 1947, Ground-water resources of Brazoria County, Texas: Texas Board Water Engineers, 101 p., 1 fig.
- Gabrysch, R. K., 1967, Development of ground-water in the Houston District, 1961-1965: Texas Water Devel. Board Rept. 63, 39 p., 19 figs.
- _____, 1968, Land surface subsidence in the Houston-Galveston region, Texas, U.S. Geol. Survey open-file rept., 19 p., 10 figs.
- Hammond, W. W., Jr., 1969, Ground-water resources of Matagorda County, Texas: Texas Water Devel. Board Rept. 91, 163 p., 35 figs.
- Hanna, Marcus, 1958, Salt dome structures: Gulf Oil Corporation Manual, 45 p., 34 figs.
- Hawkins, M. E., and Jirik, C. J., 1966, Salt domes in Texas, Mississippi, Alabama, and offshore tidelands, A survey: U.S. Bureau of Mines, IC 8313, 78 p., 22 figs.
- Hem, J. D., 1959, Study and interpretation of the chemical characteristics of natural water: U.S. Geol. Survey Water-Supply Paper 1473, 269 p., 21 pls., 40 figs.
- Kane, John W., 1967, Monthly reservoir evaporation rates for Texas, 1940 through 1965: Texas Water Devel. Board Rept. 64, 121 p., 7 figs.
- Lang, J. W., Winslow, A. G., and White, W. N., 1950, Geology and ground-water resources of the Houston District, Texas: Texas Board Water Engineers Bull. 5001, 51 p., 15 figs.
- Petitt, B. M., Jr., and Winslow, A. G., 1957, Geology and ground-water resources of Galveston County, Texas: U.S. Geol. Survey Water-Supply Paper 1416, 157 p., 23 pls., 13 figs.
- Rose, N. A., 1943, Ground water and relation of geology to its occurrence in the Houston District, Texas: *Am. Assoc. Petroleum Geologists Bull.*, v. 27, no. 8, p. 1080-1101.
- Scofield, C. S., 1936, The salinity of irrigation water: *Smithsonian Inst. Ann. Rept.*, 1934-35, p. 275-287.
- Shutts, E. E., 1953, Rice irrigation in Louisiana: *Am. Soc. Civil Engineers Trans.*, v. 118, p. 871-884.
- Singley, J. A., 1893, Preliminary report on the artesian wells of the Gulf Coastal slope: Texas Geol. Survey, 4th Ann. Rept.
- Taylor, T. U., 1902, Rice irrigation in Texas: University of Texas, Bull. 16.
- _____, 1907, Underground water of Coastal Plain of Texas: U.S. Geol. Survey Water-Supply Paper 190, 73 p.
- Texas Almanac, 1967-68, A. H. Bello Corporation, Dallas, Texas.
- Texas Water Commission and Texas Water Pollution Control Board, 1963, A statistical analysis of data on oil-field brine production and disposal in Texas for the year 1961 from an inventory conducted by the Texas Railroad Commission: Railroad Comm. of Texas, Dist. 3, v. 1.
- Todd, D. K., 1959, Ground-water hydrology: New York, John Wiley and Sons, 336 p.

- Turner, Samuel, 1937, Brazoria County, Texas, west of the Brazos River: State Board of Water Engineers, 45 p., 4 pls.
- Turner, Samuel F., and Livingston, Penn, 1939, Brazoria County, Texas, east of the Brazos River: State Board Water Engineers.
- U.S. Public Health Service, 1962, Public Health Service drinking water standards: Public Health Service Pub. 956, 61 p.
- U.S. Salinity Laboratory Staff, 1954, Diagnosis and improvement of saline and alkali soils: U.S. Dept. Agriculture Handb. 60, 160 p.
- Univ. of Texas, Bureau of Econ. Geology, 1968, Geologic atlas of Texas, Houston sheet.
- ____ 1970, Geologic atlas of Texas, Bay City sheet (in press).
- Wesselman, John B., 1967, Ground-water resources of Jasper and Newton Counties, Texas: Texas Water Devel. Board Rept. 59, 167 p., 31 figs.
- ____ 1971, Ground water resources of Chambers and Jefferson Counties: Texas Water Devel. Board Rept. 133, 178 p., 28 figs.
- White, W. N., and Sundstrom, R. W., 1941, Water resources in the vicinity of Freeport: U.S. Geol. Survey open-file rept., 20 p., 2 figs.
- White, W. N., Rose, N. A., and Guyton, W. F., 1940, Progress report on the ground-water resources of the Houston District: Texas Board Water Engineers, 35 p., 10 figs.
- White, W. N., Rose, N. A., and Guyton, W. F., 1944, Ground-water resources of the Houston District, Texas: U.S. Geol. Survey-Water Supply Paper 889-C, p. 167-287.
- Wilcox, L. V., 1955, Classification and use of irrigation waters: U.S. Dept. Agr. Circ. 969, 19 p.
- Wilson, Clyde A., 1967, Ground-water resources of Austin and Waller Counties, Texas: Texas Water Devel. Board Rept. 68, 231 p., 27 figs.
- Winslow, A. G., and Kister, L. R., Jr., 1956, The saline water resources of Texas: U.S. Geol. Survey Water-Supply Paper 1365, 105 p., 12 figs., 9 pls.
- Winslow, A. G., Doyel, W. W., and Wood, L. A., 1957, Salt water and its relation to fresh ground water in Harris County, Texas: U.S. Geol. Survey Water-Supply Paper 1360-F, p. 375-407, 11 figs., 4 pls.
- Wood, L. A., 1958, Pumpage of ground-water and changes in water levels in Galveston County, Texas, 1952-57: Texas Board Water Engineers Bull. 5808.
- Wood, L. A., Gabrysch, R. K., and Marvin, Richard, 1963, Reconnaissance investigation of the ground-water resources of the Gulf Coast region, Texas: Texas Water Comm. Bull. 6305, 114 p., 18 figs., 15 pls.
- Wood, L. A., and Gabrysch, R. K., 1965, Analog model study of ground water in the Houston District, Texas: Texas Water Comm. Bull. 6508, 103 p.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas

All wells are drilled unless otherwise noted in remarks column.

Water level : Reported water levels given in feet; measured water levels given in feet and tenths.

Method of lift and type of power: A, airlift; C, cylinder; CF, centrifugal; E, electric; G, gasoline, butane, or diesel engine; H, hand; J, jet; N, none; T, turbine.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, stock.

Water-bearing unit : C, Chicot aquifer; CL, lower unit of Chicot aquifer; CU, upper unit of Chicot aquifer; E, Evangeline aquifer.

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-65-29-801	J. F. Comfort	Swinehart	1952	300	8	300	CL	67	--	--	T,G	N	Well caved in 1967.
802	McMillian Farms	Texas Water Wells	1957	795	12,8	795	CL	67	--	--	T,E	N	Screen from 335 to 365; 500 to 520; and 740 to 785 ft. 2/
803	J. F. Comfort	Swinehart	1966	70	4	70	CU	65	9.2	Mar. 7, 1967	Cf,G	Irr	No screen, open end; irrigates 40 acres of grass.
804	McMillian Farms	--	1952	500	6	500	CL	66	65.4	do.	N	N	
805	do.	Texas Water Wells	1955	560	12	560	CL	66	55.7	do.	T,E	N	Torch slotted at intervals between 125 and 560 ft.
806	Ray Fogle	--	--	50	2	50	CU	68	--	--	N	N	Well destroyed.
30-210	South Memorial Park Inc.	Pat O'Day	1960	346	6	346	CL	47	146.3	June 5, 1967	Sub,E	Irr	Screen from 322 to 343 ft. Irrigated cemetery lawn.
211	Brookland Acres	do.	--	--	--	--	--	49	--	--	--	P	Supplies water for 15 houses.
# 212	Billy A. Morris	--	1947	35	3	35	CU	49	15.2	July 6, 1967	J,E	D,Irr	
# 213	Floyd Dimitt	Floyd Dimitt	1927	90	2	90	CU	54	--	--	Sub	N	
# 310	Clear Creek Estates	J. C. Bland	1961	338	7	338	CL	47	164	July 1967	C,E	P	Screen from 318 to 338 ft; supplies water for 40-50 houses.
# 311	Twin Creek Estates	E. Joseph	1960	340	6	340	CL	51	152.8	Mar. 14, 1967	Sub,E	P	Screen from 295 to 340 ft.
312	Bell-Toe Foundation	Almeda Well Service	1966	345	4	345	CL	48	--	--	Sub,E	Ind,P	Screen from 335 to 345 ft.
313	South Memorial Park Inc.	Baggett	--	330	4	330	CL	52	121	Sept. 1955	Sub,E	Irr	Screen from 310 to 330 ft; cemetery use.
402	J. B. Hart	Pat O'Day	1965	140	2	140	CU	58	4.4	Apr. 6, 1967	N	N	
403	R. O. Wood	Pete Rogers	1931	87	3	87	CU	59	10	May 1939	C,W	N	Open end, no screen
# 404	Frank Doherty	do.	--	80	2	80	CU	56	--	--	N	N	Well destroyed.
# 405	John Doherty	do.	1931	54	2	54	CU	58	--	--	N	N	Do.
# 406	do.	--	1924	25	2	25	CU	58	--	--	N	N	Do.
407	C. W. Massey Well 1	Humble Oil & Refining Co.	1951	8,515	--	--	--	43	--	--	N	N	Wildcat oil test. 2/
501	Arthur Miller	Lowry Water Wells	1961	127	2	127	CU	52	11	Dec. 1961	--	D	Screen from 121 to 127 ft.

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-65-30-502	W. B. Blair	Pat O'Day	--	315	3	315	CL	53	144.4	Mar. 14, 1967	J,E	D	Screen from 305 to 315 ft.
# 503	City of Pearland Well 2	Layne Texas Co.	1962	772	14,8	772	CL,E	53	161 212.3	May 11, 1962 Mar. 14, 1967	T,E	P	Screen from 575 to 595; 640 to 670; 700 to 710; 740 to 760 ft; reported pumping level 180 ft. at 524 gpm, Feb. 1962.
504	--	Davis Bros.	1967	320	4	320	CL	53	96.4	Apr. 6, 1967	Sub,E	D	
# 505	C. W. Massey	--	--	100	6	100	CU	54	--	--	N	N	Well destroyed.
# 506	T. P. Mahaney	--	--	20	2	20	CU	53	--	--	N	N	Do.
# 601	C. H. Alexander	C. H. Alexander	1946	1,300	20,14	330- 1,300	CL,E	51	83.6 174.7	Mar. 11, 1947 Feb. 9, 1968	T,Ng	Irr	Slotted pipe opposite all sands below 350 ft. <u>3</u>
602	City of Pearland	Texas Water Wells	1950	635	10,5	635	CL	52	122 148 153	Dec. 15, 1950 July 21, 1960 May 11, 1962	N	P	Screen from 535 to 585 ft. Well destroyed.
603	City of Pearland Well 4	Layne Texas Co.	1965	645	--	645	CL	52	207.5	Mar. 14, 1967	T,E	P	
605	J & O Water Co.	Pat O'Day	1963	330	4	330	C	49	--	--	Sub,E	P	Supplies water for 20-30 homes.
# 606	Coastal Forge & Steel Inc.	George	1966	462	4	462	CL	51	172	Mar. 1966	Sub,E	Ind	Screen from 452 to 462 ft.
# 607	Gulf Coast & Santa Fe Railroad	F. Standard	1916	507	8	507	CL	50	47.5 121.4	Apr. 16, 1931 Feb. 21, 1951	N	N	Screen from 477 to 507 ft. Destroyed in 1951. <u>1</u> <u>3</u>
608	Pearland Independ- ent School	Pat O'Day	1938	535	6	535	CL	52	--	--	N	N	Well destroyed.
# 609	C. W. Massey	--	--	140	12	140	CU	52	--	--	N	N	Do.
701	Texaco, Inc.	L. Patterson	1937	195	8	195	CU	49	10.2 18.5	July 18, 1946 Aug. 10, 1967	N	N	Screen from 159 to 195 ft. <u>1</u> <u>3</u>
# 702	do.	do.	--	300	6	300	C	59	3.6 8.0	July 18, 1946 Aug. 12, 1957	N	N	<u>3</u>
# 703	Texas Pipeline Co.	do.	1944	812	4	812	E	59	--	--	N	N	Screen from 766 to 812 ft. <u>1</u>
# 704	C. Natali Novel Store	--	--	60	2	60	CU	59	--	--	N	N	
# 705	Texaco, Inc.	L. Patterson	1943	618	6	618	CL	59	--	--	N	N	Screen from 594 to 618 ft. Well destroyed. <u>1</u>
706	do.	do.	1933	194	10	194	CU	59	12.3 14.9	July 18, 1946 Jan. 14, 1952	N	N	Screen from 172 to 194 ft. <u>1</u> <u>3</u>

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
# BH-65-30-708	H. Richards	H. Richards	--	25	6	25	CU	56	--	--	N	N	Well destroyed.
# 801	Midstates Oil Co.	--	--	200	4	200	CU	60	7.8 10.7	July 19, 1946 Jan. 20, 1961	N	N	3/
802	Texaco, Inc.	Pat O'Day	1963	222	7	222	C	60	--	--	T,E	Ind,P	
803	do.	L. Patterson	1934	632	7	632	CL	58	102.3 119.9	July 19, 1946 Aug. 23, 1951	N	N	Screen from 564 to 632 ft. Well destroyed. 1/ 3/
804	West Lea Water District	Davis Bros.	1966	372	4	372	CL	56	131.7	Mar. 13, 1967	Sub,E	P	Screen from 360 to 372 ft.
805	Joe McKiddie	do.	1967	452	4	452	CL	56	135.6	do.	Sub,E	D	Screen from 442 to 452 ft.
# 806	M. V. Knight	do.	1966	714	4	714	CL	57	120.6	do.	Sub,E	D	Screen from 704 to 714 ft.
807	Pearland Rest Home	E. Joseph	1964	--	4	--	--	57	24.6	Apr. 6, 1967	Sub,E	P	
808	do.	do.	1964	--	4	--	--	57	12.2	do.	N	N	
# 809	W. C. Louden	Bean Drilling Co.	1955	309	4	309	CL	53	132.0	do.	Sub,E	P	Screen from 285 to 309 ft.
# 810	C. W. Massey	--	--	30	2,3	30	CU	52	--	--	N	N	Well destroyed.
# 901	C. H. Alexander	John Alexander	1953	1,100	18	1,100	CL,E	50	142.9 167.0	Sept. 27, 1954 Feb. 13, 1967	T,Ng	Irr	Slotted opposite sands below 400 ft. Pumping level 184 ft. at 2,000 gpm. 3/
902	Pan American Petroleum Co.	--	1936	591	8	591	CL	45	94.0 177.3	June 21, 1946 Aug. 10, 1967	Sub,E	S	Reported to have 67 ft of screen. 3/
903	Roy Baker	Davis Bros.	1967	341	4	341	CL	49	147.5	July 6, 1967	Sub,E	D	Screen from 331 to 341 ft.
# 905	Pan American Petroleum Co.	Pat O'Day	1959	650	16	650	CL	42	176.8	Aug. 30, 1967	T,E	Ind	Screen from 533 to 650 ft.
906	Humble Oil & Refining Co.	L. Patterson	1936	516	6	516	CL	42	--	--	N	N	Screen from 468 to 516 ft. 1/
# 907	C. H. Alexander	John Alexander	1948	700	10	700	CL	49	--	--	Sub,E	D,S	Screen from 640 to 700 ft. Pumping level 148.8 ft, Dec. 11, 1957. Pumping level 181.7 ft, Aug. 31, 1967.
# 908	Pan American Petroleum Co.	Layne Texas Co.	1942	591	8	591	CL	42	--	--	N	N	Screen from 524 to 591 ft. Well destroyed.
31-402	City of Pearland	do.	1964	617	8	617	CL	42	168.0	Mar. 14, 1967	T,E	P	Screen from 512 to 617 ft. Test hole drilled to 831 ft. Yield 510 gpm Mar. 1967. 1/
# 403	Forest Nursery	--	1956	126	3	126	CU	42	--	--	J,E	Ind	Screen from 116 to 126 ft.

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-65-31-404	Magnolia Fruit Farm	F. Standard	1908	--	6	--	--	43	12.7 9.4	May 24, 1939 June 25, 1946	N	N	
405	Dixie Fig Farm	--	1909	475	4	475	CL	35	--	--	N	N	Well destroyed.
701	Pan American Petroleum Co.	Texas Water Wells	1946	652	16,8	652	CL	43	120 128	Sept. 1952 June 1967	T,E	Ind	Screen from 533 to 650 ft. <u>1</u>
702	do.	Coastal Drilling Co.	1953	630	16,8	630	CL	43	131	July 1953	T,E	Ind	Screen from 536 to 626 ft. <u>1</u>
704	Humble Oil & Refining Co.	L. Patterson	1936	495	4	495	CL	37	89.8 173.5	July 1, 1946 Aug. 5, 1968	N	N	Screen from 452 to 495 ft. <u>1</u> <u>3</u>
# 706	Cecil Brown	Layne Texas Co.	1931	558	8	558	CL	41	--	--	N	N	Screen from 468 to 490 and 513 to 557 ft. Test hole drilled to 560 ft. <u>1</u>
# 708	H. W. Brown	Rutherford	--	110	3	110	CU	37	--	--	N	N	
# 709	do.	Pat O'Day	--	140	6	140	CU	37	15.0	Feb. 16, 1939	N	N	Screen from 120 to 140 ft.
# 710	L. L. Barnes	do.	1946	352	4	352	CL	46	55	May 1946	J,E	D	Screen from 332 to 352 ft.
36-801	Texas Dept. of Corrections	Tom Worrel	1939	655	6,2	655	CL	54	12	1939	C,W	S	Screened from 643 to 655 ft.
901	do.	J. B. Dunn	1956	123	16	123	CU	50	26	Apr. 1957	T,G	Irr	Slotted pipe from 70 to 123 ft. Reported pumping level of 63 ft. at 1,275 gpm, Apr. 1957.
# 902	do.	do.	1956	123	16	123	CU	49	13.3 26.1	July 22, 1960 Mar. 1, 1967	T,G	Irr	Slotted pipe from 62 to 123 ft. Reported pumping level 50 ft. at 840 gpm, June 1958.
# 903	do.	do.	1956	125	16	125	CU	50	17 15.8	June 1958 Mar. 1, 1967	T,G	Irr	Slotted pipe from 62 to 125 ft. Reported yield 1,005 gpm, Mar. 1967.
# 904	do.	J. Siegert & Sons	1958	132	16	132	CU	53	18 17.6	June 1958 Mar. 1, 1967	T,G	Irr	Slotted pipe from 91 to 132 ft. Test hole drilled to 146 ft. Reported yield 1,330 gpm Mar. 1967. <u>1</u>
# 905	Texas Dept. of Corrections	J. Siegert & Sons	1958	122	16	122	CU	52	25 27.9	Jan. 1958 Mar. 1, 1967	T,G	Irr	Slotted pipe from 81 to 122 ft. Reported pumping level 80 ft. at 1,066 gpm June 1958. Test hole drilled to 145 ft. <u>1</u>
# 906	do.	do.	1958	128	16	128	CU	54	17 18.4	June 1958 Mar. 1, 1967	T,G	Irr	Slotted pipe from 86 to 128 ft. Reported pumping level 60 ft. at 760 gpm, June 1958. <u>1</u>

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-65-37-301	Donald Ford	Pete Rogers	1938	60	--	60	CU	57	--	--	N	N	
# 401	Butler Drilling Co.	B & P Drilling Co.	1966	212	4	212	CU	60	--	--	A	N	Torch slotted screen from 176 to 212 ft. <u>1/</u>
# 402	Hamilton Estate	--	--	511	5	511	CL	63	15.4	Apr. 10, 1931	N	N	
403	do.	--	--	220	4	220	CU	61	7.6	do.	N	N	
404	House & Brown	--	--	300	1	300	C	62	18.4	do.	N	N	
# 405	Judge Tigner	--	--	40	--	40	CU	61	--	--	N	N	
501	C. Martin	Layne Texas Co.	1923	906	26	906	CL	56	7.9 33.7	Apr. 10, 1931 Jan. 19, 1962	N	N	Screened opposite sands below 361 ft. <u>1/ 3/</u>
602	Bert Pritchett	--	1933	30	2	30	CU	50	4.6	May 22, 1939	N	N	
701	Texas Dept. of Corrections	Layne Texas Co.	1952	537	8	537	CL	61	71.9	Mar. 1, 1967	T,E	P,S	Reported yield 172 gpm in 1949. Supplies water for 650 inmates.
# 702	do.	Tom Worrel	1938	1,371	6	1,371	E	61	94.5	do.	N	N	Screen from 1,331 to 1,371 ft.
703	do.	Texas Water Wells	1966	595	10	595	CL	56	71	July 1967	T,E	P	Screen from 540 to 585 ft. Reported pumping level 112 ft. at 254 gpm, July 1967. Test hole drilled to 602 ft. <u>1/</u>
704	H. L. Trammel	L. Patterson	--	300	2	300	C	55	14.7	Apr. 13, 1931	A,E	N	
801	Afroma Drilling Co.	B & P Drilling Co.	1966	134	4	134	CU	51	--	--	N	N	Screen from 112 to 134 ft. <u>1/</u>
802	J. A. Fite	--	1935	350	4	350	C	53	17.0	July 31, 1946	N	N	
803	do.	--	1935	350	4	350	C	52	17.1	do.	A	N	
804	Crown Central Petroleum Co.	Bob O'Day	1945	350	--	--	C	53	17.0 19.3	July 31, 1946 Aug. 29, 1949	N	N	<u>3/</u>
805	J. A. Fite	--	1934	350	4	350	C	54	24.4 34.6	July 31, 1946 Jan. 25, 1950	N N	N N	<u>3/ 3/</u>
901	Frank Prachar	--	1932	27	1	27	CU	44	--	--	N	N	
38-103	Manvel School District	Pat O'Day	1937	165	4	165	CU	55	--	--	N	N	Screen from 145 to 165 ft.
104	Brown Texaco Station	Pyburn	1964	80	2	80	CU	54	6.4	Mar. 13, 1967	J,E	Ind	Screen from 70 to 80 ft.
# 105	Manvel School District	E. J. Joseph	1945	75	2	75	CU	55	--	--	J,E	P	Screen from 68 to 75 ft.

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS	
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT				
Brazoria County														
BH-65-38-107	E. C. Wofford	E. J. Joseph	1959	80	3	80	CU	53	18	May	1967	J,E	Ind	Screen from 70 to 80 ft.
# 108	Victor Del Bello	Loran Davis	--	50	1	50	CU	59	--	--	--	N	N	
# 109	J. W. Lewis	--	--	27	2	27	CU	54	--	--	--	N	N	
# 110	L. O. Callihan	Loran Davis	1920	62	1	62	CU	56	--	--	--	N	N	Screen from 58 to 62 ft.
# 111	do.	do.	--	35	1	35	CU	57	--	--	--	N	N	
# 112	Mrs. C. Marasckan	--	1932	52	1	52	CU	54	--	--	--	N	N	
# 113	Joe Croce	--	--	54	1	54	CU	57	--	--	--	N	N	
# 115	Texaco, Inc.	--	1936	1,148	10	1,148	E	57	--	--	--	N	N	Test hole drilled to 1,229 ft. Perforated casing 980 to 1,000 ft. <u>1/</u>
116	do	L. Patterson	1935	776	5	776	CL	58	--	--	--	N	N	Screen from 734 to 776 ft. <u>1/</u>
# 117	A. J. Hicks	McColley	--	85	2	85	CU	54	7	--	1932	N	N	
# 118	M. Paulovich	--	--	65	--	--	CU	56	--	--	--	N	N	
119	M. H. Peters	M. H. Peters	1934	36	1	36	CU	52	--	--	--	N	N	
120	West Manvel Gas	Humble Oil & Refining Co.	1953	7,501	--	--	--	43	--	--	--	--	--	Oil test. <u>2/</u>
# 201	J. W. McCabe	--	1936	480	6	480	CL	56	58.5 101.6	July 19, 1946 Aug. 5, 1968	--	C,E	D	Screen from 440 to 480 ft. <u>3/</u>
# 202	F. A. Goedecke	--	--	37	1	37	CU	50	--	--	--	N	N	
203	J. L. Morris	J. L. Morris	1955	25	2	25	CU	49	4	--	1955	C,E	D	
204	do.	--	1965	90	2	90	CU	49	9.9	July 6, 1967	--	--	Irr	Screen from 82 to 90 ft. Raises catfish. Pumping level 18.6 ft. at 22 gpm, July 6, 1967.
205	do.	Farmer	1966	88	2	88	CU	50	9.9	do.	--	--	Ind	Screen from 72 to 88 ft. Raises catfish.
# 206	A. Huepper	--	--	18	1	18	CU	51	--	--	--	N	N	
301	Humble Oil & Refining Co.	L. Patterson	1935	410	4	410	CL	44	65.4 115.1	July 1, 1946 Aug. 12, 1968	--	N	N	Screen from 341 to 371 ft. <u>1/3/</u>
# 302	Frank Cisco	--	--	20	5	20	CU	46	--	--	--	N	N	

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
# BH-65-38-401	H. N. G. Petro Chemicals	Layne Texas Co.	1965	1,022	--	--	E	46	--	--	N	N	Test hole. Water samples col- lected from 617 to 627 ft. and 877 to 889 ft. Reported static level at zone 617 to 627 ft, was 120 ft, May 1965. Static level zone 817 to 889 ft, was 139 ft, May 1965.
# 402	do.	do.	1966	911	8	911	CL,E	47	140 116.9	Mar. 1966 Sept. 1, 1967	T,E	Ind	Screen from 563 to 583; 599 to 629; 652 to 678; 698 to 713; 728 to 736; 834 to 849; and 864 to 899 ft. Reported yield 750 gpm, Sept. 1967. <u>1</u>
# 403	do.	do.	1966	1,164	20	1,164	E	48	103 130.7	June 1966 Sept. 1, 1967	T,E	Ind	Screen from 897 to 912; 918 to 932; 945 to 955; 977 to 997; 1,012 to 1,027; 1,047 to 1,062; 1,072 to 1,092; 1,102 to 1,127; and 1,137 to 1,152 ft. Reported yield 750 gpm, Sept. 1967.
# 404	do.	do.	1965	1,059	8	1,059	CL,E	48	118 130.9	Feb. 1966 Sept. 1, 1967	T,E	Ind	Screen from 658 to 678; 768 to 789; 838 to 849; 875 to 906; 958 to 978; 993 to 1,013; and 1,028 to 1,045 ft. Reported pumping level 199 ft. at 1,110 gpm, Feb. 1966.
501	Wickes Corp.	Bean Drilling Co.	1961	205	4	205	CU	50	14.3	May 23, 1967	Sub,E	Ind	Screen from 185 to 205 ft.
601	City of Alvin Well 3	Layne Texas Co.	1947	690	14	690	CL	42	107 149 166.1	Nov. 1947 May 11, 1962 Oct. 6, 1967	T,E	P	Test hole drilled to 800 ft. Screen from 558 to 668 ft. Pump- ing level 233.6 ft. at 549 gpm, Oct. 1967. <u>1</u>
# 602	City of Alvin Well 4	Katy Drilling Co.	1958	733	16,8	555- 733	CL	45	155.0 165.3 165.8	May 11, 1962 May 23, 1967 Oct. 6, 1967	T,E	P	<u>1</u> <u>2</u>
603	City of Alvin	do.	1958	790	--	--	CL	47	--	--	N	N	Screen from 659 to 689 ft. Test hole, destroyed. <u>1</u>
604	Humble Oil & Refining Co.	L. Patterson	1941	666	4	666	CL	44	28.9 57.9	Aug. 27, 1946 Aug. 12, 1957	N	N	Screen from 631 to 663 ft. <u>1</u> <u>3</u>
# 605	R. L. Colley	--	1925	54	2	54	CU	47	--	--	N	N	Open end completion.
606	W. L. Heller	--	1916	151	4	151	CU	45	10	May 1939	N	N	
701	Grande Oaks	--Smith	1966	135	4	135	CU	34	2.3	July 7, 1967	Sub,E	D	Screen from 120 to 135 ft.
# 801	Isaac Estates	T. W. Kettler	1927	30	4	30	CU	37	--	--	N	N	

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-65-38-802	G. I. Valiquette	Pan American Prod. Co.	1953	1,019.5	--	--	--	38	--	--	--	--	Oil test. <u>2/</u>
901	John Savage	--	1928	16	1	16	CU	38	--	--	N	N	Open hole completion.
39-104	Pan American Petroleum Co.	--	1941	417	8	417	CL	38	67.2 63.6	June 21, 1946 Jan. 28, 1954	N	N	Screen from 357 to 417 ft. <u>3/</u>
105	do.	--	1942	383	6	383	CL	40	20.8 12.0	June 21, 1946 Jan. 3, 1948	N	N	Screen from 343 to 383 ft.
106	do.	--	1941	610	6	610	CL	42	94.5	June 21, 1946	N	N	Screen from 550 to 610 ft.
# 107	do.	Layne Texas Co.	1945	538	10 4	472 538	CL	43	85 93.1 93.7	Nov. 19, 1945 June 21, 1946 July 24, 1946	T,E	Ind	Screen from 478 to 538 ft. <u>1/</u>
# 401	Gulf States Utilities	--	1909	750	8	750	CL	51	40.6 98.0	Apr. 16, 1931 May 1946	N	N	Reported yield 250 gpm, April 1931. <u>3/</u>
# 402	City of Alvin Well 2	Layne Texas Co.	1936	722	13	722	CL	51	52.5 125.0 166.7	Jan. 1, 1937 Apr. 29, 1953 May 23, 1967	T,E	P	Screen from 608 to 719 ft. Re- ported yield 390 gpm, Oct. 1967. <u>1/</u>
# 404	Gulf States Utilities	--	1922	158	10	158	CU	51	26.4	Apr. 16, 1931	N	N	
# 701	Phillips Pet- roleum Co.	Pat O'Day	1945	156	4	156	CU	39	--	--	N	N	Screen from 132 to 152 ft.
# 702	Mustang School	Gray Brothers	--	60	--	--	CU	30	--	--	N	N	
# 807	Fred Trantow	--	1927	90	2	90	CU	29	--	--	N	N	
808	J. H. Blackwell	Roman & Texas Gulf Prod. Co.	1949	10,264	--	--	--	36	--	--	--	--	Oil test. <u>2/</u>
# 42-701	Chester Benton, Jr.	--Mickelson	1964	869	18	869	C	60	48.6	Jan. 20, 1967	T,G	Irr	Slotted opposite sands from 160 to 869 ft. Pumping level 160.6 ft. at 1,292 gpm, June 15, 1967.
801	Lee Wave	Abe Hardin	1954	908	20 16 12	200 250 908	CL	63	--	--	T,Ng	Irr	Screened opposite sands from 200 to 908 ft.
802	H. C. Baker	Katy Drilling Co.	1961	600	20 12	-- 600	C	62	48.7	Feb. 9, 1967	T,G	Irr	
803	do.	Leon Mueller	1964	200	4	200	C	62	31.8	do.	Sub,E	D	
804	DuCommon Co.	American Water Well	1963	--	12	--	--	58	40.0	do.	T,G	Irr	

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-65-43-401	Mrs. Will Schendel	Katy Drilling Co.	1952	960	24 12	223 960	C	66	--	--	T,E	Irr	Test hole drilled to 970 ft. <u>1/</u>
402	do.	Mickelson	1947	548	16	548	C	66	16.0 46.0	May 21, 1947 Jan. 31, 1967	T,E	Irr	<u>3/</u>
# 405	Lutman Lumber Co.	Ben Weinbrenner	1932	110	2	110	CU	81	--	--	N	N	Well destroyed.
503	Mrs. Will Schendel	Raymond Weinbrenner	1947	120	12	120	CU	58	16.1	Jan. 30, 1967	T,E	Irr	Screen from 90 to 120 ft.
# 701	Brazoria County WC&ID #1	Texas Water Wells	1956	260	14	260	CU	78	66	Mar. 1956	T,E	P	Test hole drilled to 646 ft. Screen from 200 to 250 ft. <u>1/</u>
# 702	Shorty's Fishing Camp	Davis	1957	178	12	178	CU	54	28	1957	T,E	Irr	Slotted pipe from 90 to 178 ft.
# 703	A. R. Eversole	Ben Weinbrenner	1932	110	2	110	CU	78	--	--	N	N	Screen from 100 to 110 ft. Well destroyed.
# 704	W. M. Terry	do.	1930	160	3	160	CU	74	--	--	N	N	Well destroyed.
# 705	Coastal States Pipeline Dep.	do.	1944	102	6	102	CU	76	34.5	Aug. 29, 1967	J,E	D,Ind	Screen from 92 to 102 ft. <u>1/</u>
801	M. R. Powell, Jr.	Katy Drilling Co.	1951	825	20 12	200 825	CU,CL	61	50.0	Jan. 24, 1967	T,E	Irr	Slotted pipe opposite sands from 200 to 825 ft. <u>1/</u>
802	do.	do.	1953	929	12	929	CL	61	--	--	T,E	Irr	Slotted pipe opposite sands from 278 to 929 ft. <u>1/</u>
# 804	Tom Kolaja	Tom Kolaja	1922	50	6	50	CU	54	17.2	Jan. 27, 1967	J,E	D	Cased with concrete.
# 805	A. Bosak	A. Bosak	1937	60	2	60	CU	54	--	--	N	N	Well destroyed.
# 901	Todd Brothers	A. H. Justman	1950	837	20 12	200 837	CU,CL	57	35.3	Feb. 28, 1967	T,G	Irr	Slotted pipe 150-155 and 192-837 ft. Reported yield 1,552 gpm, June 1967. <u>1/</u>
# 902	J. G. Phillips, Jr.	C. C. Padon	1966	140	4	140	CU	45	23.4	do.	Sub,E	D	Screen from 130 to 140 ft. <u>1/</u>
903	do.	do.	1958	143	4	143	CU	45	25.8	do.	C,W	S	Screen from 137 to 143 ft.
# 904	Kitty Nash Estate	Ben Weinbrenner	1935	160	3	160	CU	56	--	--	C,W	S	
# 905	A. L. Bennett	do.	1934	190	3	190	CU	55	--	--	N	N	Well destroyed.
# 44-201	A. L. Frizzell	Frank Turner	1927	420	2	420	C	47	2.3 7.9	Apr. 13, 1931 May 23, 1939	N	N	Reported to have stopped flowing in 1929.
202	W. E. Schweinte	C. C. Padon	1965	120	4	120	CU	50	30	May 1965	Sub,E	D	Screen from 100 to 120 ft. <u>1/</u>

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-65-44-204	W. E. Schweinte	L. Patterson	1930	600	6	600	CL	47	--	--	C,E	P	Screen from 580 to 600 ft. Sup- plies water for 4 houses.
# 205	C. W. Chapman	Meyer	1918	364	2	364	C	51	--	--	C,W	D,S	
# 206	J. E. Fairfield	F. Turner	1919	315	2	315	CL	5.0	15	May 1939	Cf,E	D	Reported to be pea gravel from 270 to 315 ft.
303	Ralph Fite	--	1912	598	6	598	CL	47	3.5 8.3	Apr. 13, 1931 May 23, 1939	N	N	Screen from 558 to 598 ft. Well destroyed. Reported to have flowed until 1930.
304	Ray D. Moyle	L. Patterson	1931	579	--	--	CL	48	1	1931	N	N	Screen from 549 to 579 ft. Well destroyed.
305	C. A. Thompson	C. A. Thompson	1912	400	2	400	CL	43	8	May 1939	N	N	Screen from 380 to 400 ft.
# 306	Lee Duggan	Swinehart	1963	101	6	101	CU	46	23.6	June 7, 1967	Sub,E	Irr	Screen from 81 to 101 ft. Pumping level 69.7 ft. at 260 gpm, June 1967. Row crop irrigation.
307	L. M. Pearce	do.	1965	186	6	186	CU	42	23.0	June 9, 1967	T,G	Irr	Slotted pipe.
# 308	L. E. Morgan	E. Joseph	1943	450	3	450	CL	48	--	--	J,E	S	Screen from 430 to 450 ft.
# 401	Nash Estate	--	1920	250	3	250	CU	52	--	--	N	N	
501	Shell Oil Co.	L. Patterson	1956	459	4	459	CL	41	29 35.0	May 1956 Aug. 26, 1960	N	N	Test hole drilled to 460 ft. Screen from 439 to 459 ft. <u>1</u>
# 502	Texas Department of Corrections	J. B. Dunn	1956	135	16	135	CU	46	25	June 1958	T,G	Irr	Slotted pipe from 76 to 135 ft. Reported pumping level of 73 ft, Dec. 1956. Reported yield 1,010 gpm, June 1958.
# 503	do.	do.	1956	139	16	139	CU	42	26 19	Dec. 1956 June 1958	T,G	Irr	Slotted pipe from 81 to 139 ft. Reported pumping level 71 ft. at 1,027 gpm, Dec. 1956 reported pumping level 60 ft. at 1,020 gpm, June 1958.
# 504	do.	do.	1956	142	20	142	CU	46	19	June 1958	T,G	Irr	Slotted pipe from 84 to 142 ft. Reported pumping level 68 ft. at 1,027 gpm, Dec. 1956. Re- ported pumping level 49 ft. at 1,120 gpm, June 1958.
# 505	W. E. Schweinle	do.	1954	115	16	115	CU	50	43.8	June 7, 1967	T,G	Irr	Slotted pipe from 55 to 105 ft. Pumping level 53.5 ft. at 397 gpm, June 7, 1967.

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-65-44-601	Texas Department of Corrections	Layne Texas Co.	1955	875	10	875	CL	43	38	1955	T,E	P,S	Screen from 857 to 875 ft. Re- ported pumping level 64 ft. at 302 gpm, 1955.
# 602	do.	J. B. Dunn	1956	145	16	145	CU	47	23	July 1957	T,G	Irr	Slotted pipe from 86 to 144 ft. Reported pumping 48 ft. at 1,520 gpm, July 1957. Reported pumping level 40 ft. at 1,250 gpm June 1958.
# 603	do.	do.	1956	142	16	142	CU	44	25 15 21.3	June 1956 1958 Mar. 20, 1967	T,G	Irr	Slotted pipe from 85 to 141 ft. Reported pumping level 60 ft. at 1,500 gpm, June 1958.
# 604	do.	do.	1956	152	16	41	CU	41	25 18	July 1956 1958	T,G	Irr	Slotted pipe from 94 to 152 ft. Reported pumping level 49 ft. at 1,180 gpm, July 1958.
# 605	do.	--	--	700	4	--	CL	38	+ 3.5	Apr. 1931	N	N	Flowed until 1932. Well destroyed.
701	Phillips Brothers	B & D Drilling Co.	1956	353	12	353	C	51	80	1956	T,Ng	Irr	Slotted pipe from 253 to 353 ft. Reported yield 1,000 gpm, 1956.
# 702	A. Bertran	Fleshnen	1936	56	2	56	CU	53	--	--	N	N	Well destroyed.
# 703	Nash Estate	Ben McKinney	1930	110	3	110	CU	55	--	--	N	N	
# 704	do.	do.	1926	138	2	138	CU	55	--	--	N	N	
801	Texas Department of Corrections	British American Oil Production Co.	1961	9,876	--	--	--	40	--	--	--	--	Oil test. 2/
901	do.	Layne Texas Co.	1948	871	10	871	CL	41	15	1948	T,E	P	Reported pumping level 37 ft. at 210 gpm, 1948.
903	Dow Chemical Co.	--	1945	351	4	351	C	37	21.2	Mar. 1, 1967	J,E	D	
904	W. D. Conley	L. Patterson	1965	666	4	666	CL	35	--	--	Sub,E	D	
# 905	Texas Department of Corrections	Tom Worrel	1938	660	4	660	CL	41	7 9	1938 1945	N	N	38 ft. of screen on bottom. Well destroyed.
45-101	City of Rosharon	--	1940	365	4	365	C	52	--	--	Sub,E	P	35 connections in 1967.
102	Otto Sens Club	L. Patterson	1956	923	13	923	CL	50	49.9 54.3	Jan. 30, 1961 Jan. 27, 1967	T,E	Irr	Screen from 297-305; 305-313; 381-393; 534-544; 600-610; 804- 824; 878-888; and 901-916 ft. 3/
103	do.	do.	1923	900	2	900	E	49	9.9 74.4	May 22, 1939 Jan. 31, 1968	N	N	3/

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-65-45-104	L. M. Pearce	B & P Drilling Co.	1965	156	4	156	CU	45	--	--	T	S	Screen from 121 to 156 ft. Re- ported pumping level 126 ft, at 300 gpm, Feb. 1965 <u>1/</u>
106	Wooten's Texaco Service Station	L. Patterson	1964	322	4	322	CL	52	--	--	Sub,E	D	Screen from 302 to 322 ft.
107	Otto Sens Club	do.	1925	792	2	792	CL	50	8.7 8.2	Apr. 13, 1931 Jan. 28, 1954	N	N	Well destroyed. <u>3/</u>
108	do.	do.	1923	600	2	600	CL	50	4.5 3.6	July 31, 1946 Jan. 30, 1961	N	N	
109	Chins Grove School	do.	1936	792	2	792	CL	50	14	1936	N	N	Screen from 772 to 792 ft.
202	Bill Ramins Lake	Katy Drilling Co.	1967	1,046	--	--	C	45	--	--	--	Irr	<u>1/</u>
# 301	C. L. Wimberly	E. Joseph	1957	127	3	127	CU	43	--	--	J,E	D,S	Open hole completion.
302	do.	do.	1946	127	3	127	CU	43	10.8	July 7, 1967	N	N	Do.
303	M. E. Belsley	Humble Oil & Refining Co.	1947	8,905	--	--	--	--	--	--	--	--	Oil test. <u>2/</u>
401	W. B. Patterson	L. Patterson	1966	186	8	186	CU	46	15	Apr. 1966	T,E	Irr	Screen from 100 to 186 ft.
501	N. E. Selstad	Layne Texas Co.	1932	1,168	24	1,168	CL,E	41	11.4 67.0	Nov. 15, 1946 Aug. 5, 1968	T,E	N	100 ft. of slotted pipe in 8 sands between 242 and 1,164 ft. Reported to have flowed in March 1933. <u>1/ 3/</u>
502	Dr. B. W. Turner	do.	1926	923	24 16 10	-- -- 923	CL	43	2.6 55.5	Apr. 13, 1931 Feb. 8, 1967	C,W	S	Slotted pipe from 191-209; 236- 336; 355-379; 396-411; 573-594; 762-783; 816-838 and 863-916 ft. Formerly used for irrigation. Deepened from 528 to 923 feet in 1928. <u>1/ 3/</u>
503	do.	L. Patterson	--	--	6	--	--	42	15.4	Feb. 8, 1967	C,W	S	
504	do.	do.	1943	918	4	918	C	46	--	--	N	N	Screen from 898 to 918 ft. <u>1/</u>
# 508	F. W. Turner, Jr.	do.	1944	398	4	398	CL	43	14.7 16.1	Nov. 15, 1946 Mar. 3, 1948	J,E	D,S	Screen from 386 to 398 ft.
601	C. L. Gorden	Arkansas Fuel Oil Corp.	1960	10,820	--	--	--	37	--	--	--	--	Oil test. <u>2/</u>
701	Chenango Plantation	L. Patterson	1956	204	16	204	CU	36	44.7	Aug. 10, 1960	T,E	Irr	Screen from 160 to 200 ft. <u>1/</u>

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-65-45-702	Chenango Plantation	L. Patterson	1954	179	12	179	CU	42	21	Aug. 1954	T,E	Irr	Screen from 83-102; 138-156 and 159-177 ft. Row crop irrigation. 1/
703	Patterson, Smith & Turner	do.	1954	178	12	178	CU	46	20.6	Feb. 8, 1967	N	N	Screen from 136 to 177 ft. 1/
# 705	Texas Department of Corrections	Tom Worrel	1931	650	4	650	CL	32	+ 1	Oct. 1946	C,W	S	
801	L. O. Harris	L. Patterson	1956	199	16	199	CU	41	25	Nov. 1956	T,G	Irr	Screen from 156 to 195 ft. Re- ported yield 1200 gpm, 1956. 1/
# 803	Texas Pipeline Co.	do.	1943	520	4	520	CL	44	--	--	N	N	Screen from 496 to 520 ft. Well destroyed. 1/
# 46-101	E. F. McCauley	Bean Drilling Co.	1959	167	2	167	CU	37	--	--	J,E	D,Irr, S	Screen from 161 to 167 ft.
201	W. A. Thomas	B & P Drilling Co.	1965	604	4	604	CL	27	--	--	N	N	Test hole drilled to 714 ft. . Screen from 516-546 and 577 to 604 ft. 1/
# 202	C & L Knappe	L. Patterson	1930	1,118	4	1,118	E	31	+ 8.0 5.4 6.8	Apr. 16, 1931 May 19, 1939 Aug. 29, 1946	N	N	Reported to flow 4.2 gpm, April 1931. Well destroyed.
203	C. C. Waits	C. C. Waits	1931	20	1	20	CU	31	--	--	N	N	Well destroyed.
204	W. Russell	--	--	600	10	600	C	31	--	--	N	N	Reported to have flowed until 1936.
# 205	Oak Bend Estates	E. Joseph	1963	147	4	147	CU	26	9.4	Sept. 1, 1967	Sub,E	P	Screen from 129 to 147 ft.
206	do.	Bean Drilling Co.	1962	151	4	151	CU	26	--	--	Sub,E	P	Screen from 141 to 151 ft.
# 301	Humble Oil & Refining Co.	L. Patterson	1940	473	4	473	CL	30	22.9 59.6	July 30, 1946 Jan. 30, 1967	N	N	Screen from 441 to 473 ft. 1/ 3/
# 302	Gulf Coast CMA	do.	1936	350	2	350	C	23	--	--	N	N	Well destroyed.
303	do.	George Barrell	1965	110	4	110	CU	23	10.2	July 7, 1967	Sub,E	P	Reported to have 20 ft. of screen. Supplies water for camp.
304	do.	--	--	618	4	618	CL	26	53.8	do.	N	N	
# 305	Rowan Drilling Co.	--	1943	485	4	485	CL	29	21	1945	N	N	Open hole completion.
# 306	G. F. Plummer	L. Patterson	1930	843	2	843	CL	31	20 62	July 1930 1945	N	N	Well destroyed.

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
# BH-65-46-307	Gulf Coast CMA	L. Patterson	1930	550	2	550	CL	22	23.0	Aug. 29, 1946	N	N	Reported to have flowed when drilled.
501	Mrs. Stephens	Bean Drilling Co.	--	532	4	532	CL	26	--	--	Sub,E	P	Screen from 512 to 532 ft. Reported to have 13 connections.
502	W. G. Simpson	American Water Co.	1945	700	18	700	CL	26	13.8 25.5	Aug. 29, 1946 Jan. 11, 1952	N	N	Slotted pipe opposite all sands below 205 ft. Well destroyed. <u>1/3/</u>
601	Pan American Petroleum Co.	Henry Lane	1945	226	4	226	CU	23	8.0 10.3	July 19, 1946 Aug. 11, 1967	N	N	Slotted from 201 to 226 ft. <u>3/</u>
# 602	Liverpool Volunteer Fire Department	Carol Swanson	1962	145	4	145	CU	19	7.8	May 25, 1967	J,E	P	
604	Frank Daleo	E. Joseph	1954	97	2	97	CU	11	10	1954	J,E	D	
# 608	Pan American Petroleum Co.	L. Patterson	1946	998	4	998	E	19	27.4	Aug. 27, 1946	N	N	Slotted pipe from 978 to 998 ft.
# 612	Chocolate Bayou School	E. Joseph	1946	220	2	220	CL	23	--	--	N	N	Slotted pipe from 210 to 220 ft.
701	Humble Oil & Refining Co.	L. Patterson	1936	400	4	400	C	24	1.1 5.3	July 29, 1946 Aug. 11, 1967	N	N	<u>3/</u>
702	do.	do.	1944	514	4	514	CL	26	26.8 41.6	July 29, 1946 Jan. 25, 1967	N	N	Screen from 491 to 514 ft. <u>1/3/</u>
703	do.	do.	1940	312	4	312	CU	24	2.4 2.3	July 29, 1946 Jan. 17, 1950	N	N	Screen from 289 to 312 ft.
704	do.	do.	1943	310	4	310	CU	22	+ 1.0 13.0	July 29, 1946 Aug. 9, 1957	N	N	Test hole drilled to 315 ft. Screen from 289 to 310 ft. Well destroyed. <u>1/3/</u>
801	do.	do.	1936	306	6	306	CU	26	1.9 6.2	July 29, 1946 Aug. 11, 1967	N	N	Test hole drilled to 311 ft. Screen from 265 to 306 ft. <u>1/3/</u>
802	do.	--	--	500	4	500	C	23	32.4 66.2	Aug. 30, 1950 Jan. 21, 1965	N	N	Well destroyed.
803	do.	L. Patterson	1945	309	4	309	CU	23	2.5 8.6	July 29, 1946 Aug. 13, 1959	N	N	Screen from 285 to 309 ft. <u>1/3/</u>
804	Laddie Korenek	--	--	330	6	330	C	23	5.9	Jan. 25, 1967	C,W	S	Reported to be set in 33 ft. of sand.
805	Humble Oil & Refining Co.	L. Patterson	1944	441	4	441	CL	22	29.9 29.2	July 29, 1946 Jan. 22, 1958	N	N	Screen from 418 to 441 ft.

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	Driller	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-65-46-806	Humble Oil & Refining Co.	L. Patterson	1944	355	4	355	CU	23	2.8 9.0	July 29, 1946 Jan. 11, 1952	N	N	Screen from 332 to 355 ft. Well destroyed. 1/ 3/
# 902	I. T. Driskill	E. Joseph	1958	400	4	400	C	11	4.4	May 24, 1967	Sub,E	Ind	Supplies water for Marina.
903	Snug Harbor	do.	1959	134	6	134	CU	11	.0	Sept. 1959	Sub,E	P	Screen from 104 to 134 ft. Supplies water for 15 houses.
47-101	Phillips Petro- leum Co. Well 2	Layne Texas Co.	1951	843	16	843	CL	28	76	Feb. 1951	T,E	Ind	Screen from 510 to 530 and 740 to 800 ft. Reported pumping level 113 ft. at 524 gpm Feb. 1951. 1/
102	Phillips Petro- leum Co. Well 1	do.	1951	794	16	794	CL	28	75	do.	T,E	Ind	Screen from 472 to 482; 501 to 533; and 742 to 782 ft. Reported pumping level 112 ft. at 503 gpm, Feb. 1951. Test hole drilled to 800 ft. 1/
105	Clyde Herring	do.	1939	897	16	897	CL	28	46.3 73.2	Aug. 2, 1946 Jan. 25, 1957	N	N	Screen from 372 to 389; 626 to 649; 750 to 770; 799 to 819; and 877 to 897 ft. Well destroyed. Test hole drilled to 1,185 ft. 1/ 3/
# 106	Phillips Petro- leum Co.	L. Patterson	1945	700	4	700	CL	25	72.1 98.2	Jan. 3, 1949 Jan. 22, 1958	N	N	3/
# 107	Pan American Petroleum Co.	--	--	100	4	100	CU	26	--	--	N	N	
# 108	Phillips Petro- leum Co.	--	1946	96	4	96	CU	26	2	Mar. 1946	N	N	Screen from 86 to 96 ft.
109	do.	L. Patterson	--	700	4	700	CL	27	21.7	July 25, 1946	N	N	
110	do.	--	1946	745	4	745	CL	29	74.7	do.	N	N	
201	Texaco, Inc.	--	--	691	4	691	CL	26	77.0 106.9	Jan. 12, 1951 Aug. 11, 1967	N	N	Screen from 670 to 691 ft. 3/
# 202	do.	L. Patterson	1944	640	4	640	CL	28	30.5	Jan. 3, 1949	N	N	Well destroyed.
# 203	Southern Metho- dist Univ.	--	1935	25	2	25	CU	29	--	--	N	N	Open end completion.
# 204	Texaco, Inc.	L. Patterson	1945	684	4	684	CL	25	78	May 1945	N	N	Screen from 659 to 684 ft. 1/
401	Phillips Petro- leum Co.	do.	1945	400	4	400	C	23	24.8 87.0	July 25, 1946 Aug. 5, 1968	N	N	3/
405	Karen Marie Peterson	Almeda Well Service	1967	100	2	100	CU	21	8	Apr. 1967	J,E	D	

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
# BH-65-47-406	Hans Peterson	--	1938	65	4	65	CU	18	--	--	N	N	
407	Phillips Petro- leum Co.	L. Patterson	--	600	--	--	CL	26	23.2	July 25, 1946	N	N	
501	Texaco, Inc.	do.	1945	636	4	636	CL	25	55.0 80.0	Apr. 1945 Jan. 16, 1950	N	N	3/
701	J. C. Peterson	Almeda Well Service	1961	143	4	143	CU	15	9	1966	J,E	D	Screen from 133 to 143 ft.
# 702	Monsanto Chemical Co.	Layne Texas Co.	1961	924	13	924	CL	16	70	May 1961	T,E	P	Test hole drilled to 944 ft. Screen from 829 to 914 ft. Re- ported pumping level 100 ft. at 524 gpm, May 1961. 1/
# 703	John Beckett	--	1917	30	4	30	CU	11	--	--	N	N	
901	J. D. Hillyer	--	1965	109	2	109	CU	8	8	Sept. 1966	J,E	D	
# 902	Fred Konzack	--	--	82	2	82	CU	5	2.6	May 25, 1967	J,E	P	Supplies water for trailer houses.
# 904	Humble Oil & Refining Co.	L. Patterson	1943	557	--	--	CL	14	--	--	T,E	D	1/
# 48-701	J. D. Hughes	--	--	180	2	180	C	12	6.9	May 1, 1939	N	N	Well destroyed.
# 702	do.	A. Tacquard	1919	180	3	180	C	8	3.0	do.	N	N	
# 50-101	J. T. Looney	Katy Drilling Co.	1966	820	20	820	CL	61	48.5 63.4	Feb. 15, 1967 Apr. 13, 1967	T,E	Irr	Test hole drilled to 836 ft. 501 ft. of slotted pipe between 319 and 820 ft. Yield 2,870 gpm, June 1967. 1/
# 102	do.	do.	1966	821	20	821	CU,CL	62	44.2 55.2	Feb. 15, 1967 Apr. 13, 1967	T,E	Irr	Test hole drilled to 837 ft. 722 ft. of slotted pipe between 99 and 821 ft. Yield 1,908 gpm, June 1967. 1/
103	do.	do.	1966	893	--	--	--	62	--	--	N	N	Test hole.
# 301	R. R. Farmer	L. Patterson	1915	420	4	420	CL	51	+ 4	Oct. 21, 1936	N	N	Screen from 400 to 420 ft. Well destroyed.
406	F. P. Hanson	Davis Drilling Co.	1959	357	2	357	CL	51	23	Jan. 1959	J,E	D	Screen from 345 to 357 ft.
501	Humble Oil & Refining Co.	Layne Texas Co.	1953	770	16	770	CL	49	2.7 61.8	June 1953 June 6, 1967	Cf,E	Ind	Screen from 530 to 550; 570 to 600; 670 to 700; and 740 to 760 ft. Reported pumping level 67 ft at 584 gpm, June 1953. 1/

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-65-50-502	Humble Oil & Refining Co.	Layne Texas Co.	1953	780	16	780	CL	49	26	June 1953	Cf,E	Ind	Screen from 525 to 535; 570 to 580; 596 to 610; 669 to 689; and 730 to 770 ft. Reported pumping level 55 ft. at 566 gpm, June 1953. 1/
# 503	do.	do.	1953	150	14	150	CU	51	28.0 33.3	June 18, 1953 June 6, 1967	T,E	P	Screen from 120 to 140 ft. Reported pumping level 45 ft. at 115 gpm, June 1953. Supplies water for 12 houses. 1/
504	do.	L. Patterson	1946	473	4	473	CL	54	9.6 42.5	Nov. 7, 1946 Jan. 27, 1967	N	N	Screen from 438 to 473 ft. 1/3/
505	do.	do.	1939	399	4	399	CL	53	8.6 45.8	Nov. 7, 1946 Aug. 14, 1967	N	N	Screen from 379 to 399 ft. 3/
# 506	O. L. Hodges, Jr.	C. L. Bundick	1933	142	2	142	CU	53	18	Oct. 1936	N	N	
# 507	Danciger Oil & Refining Co.	L. Patterson	1938	585	4	585	CL	53	11	Nov. 1946	N	N	Screen from 553 to 585 ft.
# 508	do.	Danciger Oil & Refining Co.	1935	156	4	156	CU	51	--	--	N	N	
# 509	do.	L. Patterson	1938	585	4	585	CL	52	11	1938	N	N	Screen from 553 to 585 ft. Well destroyed.
# 510	Humble Oil & Refining Co.	Humble Oil & Refining Co.	1930	650	4	650	CL	50	--	--	N	N	
# 601	V. L. Johnson	Katy Drilling Co.	1957	875	20	875	CL	49	52 43.1	May 1957 Feb. 17, 1967	T,Ng	Irr	Slotted pipe opposite sand from 296 to 875 ft. Reported pumping level 105 ft. at 3,179 gpm, May 1957. Pumping level 115.4 ft. at 1,928 gpm, April 18, 1967.
602	Humble Oil & Refining Co.	L. Patterson	1946	452	4	452	CL	49	11.6 51.5	Jan. 5, 1949 June 6, 1967	C,W	S	Screen from 419 to 451 ft. 3/
603	M. G. Johnson	--Weinbrenner	1944	370	2	370	CL	45	19	Mar. 1966	J,E	D	Screen from 365 to 370 ft.
# 604	do.	B. N. Crouch	1915	665	2	665	CL	48	--	--	J,E	D	Reported to have flowed until 1930.
# 605	W. T. Blackwell	L. Patterson	1963	354	16	354	C	47	--	--	T,Ng	Irr	Screen from 200 to 354 ft. Yield 1,350 gpm, April 18, 1967.
# 606	B. W. Crouch	B. W. Crouch	1930	365	4	365	C	45	--	--	N	N	
607	Pledger Gas Unit	Humble Oil & Refining Co.	1952	6,920	--	--	--	50	--	--	--	--	Oil test. 2/

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
<u>Brazoria County</u>													
BH-65-50-801	Humble Oil & Refining Co.	L. Patterson	1935	594	4	594	CL	49	5.1 44.8	Nov. 1, 1946 Aug. 14, 1967	N	N	Screen from 582 to 594 ft. <u>3/</u>
802	do.	do.	1935	500	7	500	CL	51	9.8 51.7	Nov. 7, 1946 Aug. 14, 1967	C,W	S	<u>3/</u>
803	do.	do.	1946	618	4	618	CL	49	4.2 55.1	Nov. 7, 1946 Aug. 28, 1967	N	N	Screen from 583 to 618 ft. <u>1/ 3/</u>
# 805	E. P. Duke	Crowell Brothers	1966	238	20	238	CU	42	25.7 40.7	Feb. 15, 1967 June 9, 1967	T,G	Irr	Slotted pipe from 84 to 143; 158 to 168; and 183 to 238 ft. Test hole drilled to 260 ft. Pumping level 112 ft. at 2,245 gpm, June 6, 1967. <u>1/</u>
# 806	Anthony Duke	Leonard Mickelson	1965	213	20	213	CU	41	--	--	T,G	Irr	Slotted pipe opposite sands from 60 to 210 ft. Yield 1,287 gpm, June 6, 1967. <u>1/</u>
# 807	Elmo Duke	do.	1965	208	20	208	CU	43	17.3	Feb. 15, 1967	T,G	Irr	Slotted pipe opposite sands from 65 to 205 ft. Test hole drilled to 209 ft. <u>1/</u>
808	O. J. Smith	--Davis	1957	200	18	200	CU	45	46.9	June 9, 1967	T,G	Irr	Slotted pipe opposite sands from 65 to 200 ft. Not used since 1963.
# 810	Danciger Oil & Refining Co.	Danciger Oil & Refining Co.	1934	700	5	700	C	51	20	Oct. 1936	N	N	Well destroyed.
# 811	do.	do.	1933	139	6	139	CU	51	--	--	N	N	Do.
# 812	Humble Oil & Refining Co.	--	--	504	--	--	CL	49	--	--	N	N	
# 901	D. A. Blackwell	--	--	--	--	--	--	49	29.5	Feb. 15, 1967	T,E	Irr	Yield 2,365 gpm, June 6, 1967.
# 902	--	--	--	Spring	--	--	CU	--	--	--	N	N	Flowing in 1936.
# 51-102	Joe Vleczyk	Ben Boef	1961	165	2	165	CU	43	--	--	J,E	D	Screen from 159 to 165 ft.
201	R. E. Callander	--Matula	--	--	2	--	--	41	20.1	July 14, 1967	J,E	D,S	
# 202	R. N. Pollard	--	1934	80	2	80	CU	41	--	--	N	N	
# 301	Charles Gless	Katy Drilling Co.	1966	902	12	902	CL	55	59.1	Jan. 30, 1967	T,G	Irr	Yield 2,574 gpm, June 19, 1967.
# 302	C. & J. Gless	do.	1967	902	12	902	CL	52	111	June 1967	T,G	Irr	Slotted pipe opposite sands from 404 to 890 ft. <u>1/</u>

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
# BH-65-51-401	John Gayle, Jr.	L. Patterson	1957	704	12	704	CU,CL	42	25	Mar. 1957	T,Ng	Irr	Screen from 142 to 152; 329 to 342; 488 to 515; and 650 to 703 ft. Reported 2,032 gpm with draw-down of 13 ft, March 1957.
402	Mrs. Carrie Gayle Reeves	do.	1966	340	2	340	CL	27	36	Apr. 1966	J,E	D	Screen from 330 to 340 ft.
403	W. T. Robertson	Stanolind Oil & Gas Co.	1948	9,238	--	--	--	34	--	--	--	--	Oil test. <u>2/</u>
602	Texaco, Inc.	L. Patterson	--	600	7	600	CL	28	+ 3	1946	N	N	Reported to be flowing in 1946.
# 603	do.	--	--	577	4	577	CL	31	--	--	N	N	Screen from 532 to 577 ft. <u>1/</u>
# 703	R. R. Farmer	--Weinbrenner	1944	600	2	600	CL	36	--	--	C,W	D,S	Reported to be flowing in 1946.
801	Texas Pipeline Co.	L. Patterson	1958	393	2	393	CL	32	31	June 1958	J,E	D	Screen from 381 to 391 ft. <u>1/</u>
# 803	F. N. Bullock	B. F. Hodges	1915	750	6,3	750	CL	31	+ 4	Oct. 14, 1936	N	N	Screen from 740 to 750 ft. Estimated flow 2 gpm, Oct. 14, 1936.
# 804	do.	L. Patterson	1920	762	4	762	CL	33	+20	Oct. 13, 1936	N	N	Screen from 742 to 762 ft. Estimated flow 20 gpm, Oct. 13, 1936.
# 805	do.	B. F. Hodges	1916	700	6	700	CL	32	.0	Oct. 14, 1936	N	N	
# 806	R. R. Farmer	L. Patterson	1936	49	4	49	CU	43	26.3	Oct. 21, 1936	N	N	
# 807	do.	do.	1918	613	2	613	CL	41	+ 8.0 29.0	Oct. 21, 1936 Jan. 30, 1958	N	N	Screen from 587 to 613 ft. Reported to have flowed 12 gpm, 1918. <u>3/</u>
# 808	do.	--Weinbrenner	1935	100	2	100	CU	34	--	--	N	N	
# 809	W. G. Smith	W. L. Brown	1932	37	--	--	CU	37	--	--	N	N	
# 810	F. L. Wise	--Weinbrenner	1934	320	2	320	C	34	.5	Oct. 14, 1936	N	N	
# 811	Texas Pipeline Co.	--	1919	610	4	610	CL	31	--	--	N	N	Reported to be flowing in 1938.
# 901	City of West Columbia	Layne Texas Co.	1941	659	12 6	538 659	CL	34	8.3 33.2 43.9	Oct. 15, 1946 July 25, 1960 May 26, 1967	T,E	P	Screen from 540 to 549; 582 to 602; 625 to 650 ft. <u>1/</u>
902	do.	A. E. Fawcett	1955	667	12	667	CL	34	49	1958	T,E	P	Test hole drilled to 825 ft. Screen from 548 to 573, and 630-663 ft. <u>1/</u>

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-65-51-903	City of West Columbia	L. Patterson	1937	615	6	615	CL	34	--	--	N	N	Screen from 590 to 612 ft. 1/
904	Joe Vleczyk	Ben Boef	1959	165	--	165	CU	30	--	--	J,E	P	Screen from 157 to 165 ft. Supplies water for trailer court.
# 905	Varner-Hogg State Park	Pomykal Drilling Co.	1966	615	6	615	CL	36	40.0	Mar. 16, 1967	Sub,E	P	Screen from 590 to 615 ft.
# 907	Texaco, Inc.	L. Patterson	1941	524	7	524	CL	41	58.6	Aug. 29, 1967	T,E	Irr, Ind,P	Screen from 500 to 524 ft. 1/
# 908	J. A. Rogers	--	1933	60	5	60	CU	30	--	--	N	N	
# 909	E. J. Hagemeyer	--	1922	502	3	502	CL	37	--	--	N	N	Estimated flow 5 gpm, Oct. 1936.
# 910	T. M. Smith	--	1920	495	4	495	CL	37	+10	Oct. 13, 1936	N	N	Screen from 480 to 495 ft. Esti- mated flow 20 gpm, Oct. 1936.
911	Humble Oil & Refining Co.	Humble Oil & Refining Co.	1920	640	6	640	CL	36	+ 5	do.	N	N	
# 912	do.	Crown Oil Co.	1914	750	4	750	CL	28	+ 3	Oct. 26, 1936	N	N	
# 913	do.	do.	1914	750	5	750	CL	27	+ 3	do.	N	N	Flowing 4 gpm, Oct. 26, 1936.
52-101	Kitty Nash Estate	O. T. Davis & Son	1956	200	12	200	CU	37	24.6	Feb. 1, 1967	T,G	Irr	
102	Brown & Root	Katy Drilling Co.	1965	852	20 12	200 852	CU,CL	35	39.0	do.	T,Ng	Irr	Slotted pipe opposite sands from 232 to 852 ft.
103	do.	Herman & George P. Brown	1957	867	9	867	CL	35	--	--	T,Ng	Irr	Slotted pipe from 690 to 710, and 760 to 820 ft. Drilled to 1,600 ft. for oil test.
104	do.	L. Patterson	--	--	4	--	--	35	15.6	Feb. 28, 1967	Sub,E	P	Supplies water for 10 cabins.
105	do.	B & P Drilling Co.	1964	152	4	152	CU	31	--	--	N	N	Screen from 128 to 152 ft. Well destroyed. 1/
106	T. L. Smith, Jr. Well 1	Quintana Petro- leum Co.	1949	9,520	--	--	--	33	--	--	--	--	Oil test. 2/
201	Henry Black	Katy Drilling Co.	1954	745	14	745	CL	39	30 41.1 46.3	May 1954 July 26, 1960 Feb. 1, 1967	T,G	Irr	Slotted opposite sands between 252 to 745 ft. 1/
202	Brown & Root	L. Patterson	1965	934	--	--	--	35	--	--	N	N	Test hole. Well destroyed. 1/
# 203	Dow Chemical Co.	do.	1962	200	4	200	CU	38	--	--	J,E	D	
204	do.	--	1944	300	--	--	--	41	--	--	N	N	Core test. Destroyed. 1/

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-65-52-205	Dow Chemical Co.	--	1944	300	--	--	--	41	--	--	N	N	Core test. Destroyed. <u>1</u>
301	Coastal Water Service	--	--	385	3	385	CL	34	24	May 1967	J,E	P	Screen from 367 to 385 ft. Sup- plies water for 30 homes.
302	Dow Chemical Co.	--	1944	300	--	--	--	40	--	--	N	N	Core test. Destroyed. <u>1</u>
# 401	Henry Beal	Layne Texas Co.	1958	609	12	609	C	35	26	1958	T,E	Irr	Reported yield 1,002 gpm with drawdown of 50 ft, 1958.
402	Brazos River Club	Leo Frenzini	1958	672	4	672	CL	31	34.6	Jan. 24, 1967	Sub,E	P	Screen from 652 to 672 ft. Supplies water for 25 houses.
403	Mallard Lake Club	Texas Water Wells	1964	523	9	523	CU,CL	31	21.1	Mar. 16, 1967	T,G	Irr	Slotted pipe from 88 to 114; 137 to 160; 222 to 231; 308 to 328; 337 to 366; 436 to 441; 451 to 456; and 463 to 488 ft.
404	do.	--	1952	320	4	320	C	31	--	--	Sub,E	P	Supplies water for 25 houses.
# 405	George Tinsley	Ben Weinbrenner	1935	150	4	150	CU	29	--	--	N	N	
406	State Highway Dept.	--	1935	135	4	135	CU	32	14.3	Nov. 6, 1936	N	N	Well destroyed.
# 603	V. J. Martin	George Back	1964	95	3	95	CU	31	--	--	J,E	D	
604	Coastal Water Service	Tarrant Water Well Service	1962	145	4	145	CU	34	--	--	Sub,E	P	Screen from 130 to 145 ft. Supplies water for 35 houses.
701	J. P. S. Griffith	L. Patterson	1955	365	4	365	CL	30	35.6	Mar. 16, 1967	Sub,E	D,S	Screen from 345 to 365 ft.
703	Charles Wolf	do.	1965	363	4	363	CL	26	37	Sept. 1965	Sub,E	D	Screen from 353 to 363 ft.
# 704	T. M. Smith	do.	1917	692	2	692	C	26	+ 6.5	Nov. 10, 1936	N	N	
# 705	Dr. M. A. Weams	do.	1928	500	3	500	C	26	+ 5.0	do.	N	N	Estimated flow 6 gpm in 1936.
# 706	John Craig	do.	1918	635	3	635	C	26	+ 9.5	do.	N	N	Estimated flow 15 gpm in 1936.
# 707	East Columbia School	do.	1925	688	3	688	CL	26	+ 7.5	do.	N	N	Screen from 668 to 688 ft. Mea- sured flow 15 gpm in 1936.
801	J. P. S. Griffith	do.	1956	281	13	281	CU	23	28 17.0	Dec. 1956 Mar. 16, 1967	N	N	Screen from 115 to 125; 152 to 182; and 258 to 278 ft. Reported yield 1,500 gpm, 1960. Not used since 1960. <u>1</u>
802	D. C. Bintliff	do.	1956	227	13	227	C	24	45 14.4	July 1956 Feb. 17, 1967	T,E	N	
805	J. P. S. Griffith	--Padon	1955	85	4	85	CU	26	26.1	Mar. 16, 1967	C,W	S	Slotted pipe from 75 to 85 ft.

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-65-52-901	D. C. Bintliff	L. Patterson	1955	395	--	--	--	26	--	--	N	N	Test hole. Destroyed. <u>1/</u>
902	do.	do.	1951	240	22	240	CU	27	5.2	Feb. 17, 1967	T,Ng	N	Not used since 1958.
# 903	do.	do.	1956	219	12	219	CU	26	17.0	do.	T,E	Irr	Yield 708 gpm, Mar. 10, 1967.
904	Nichel's Lease	--	--	600	4	600	C	35	13.2 16.8	Oct. 16, 1946 Jan. 10, 1952	N	N	<u>3/</u>
53-101	Pedco Recreation Lake	L. Patterson	1955	198	12	198	CU	34	21	July 1955	T,G	Irr	Screen from 164 to 174, and 176 to 195 ft. Reported yield 1,000 gpm, 1955. <u>1/</u>
# 102	Joe Bingham	--Warneche	1914	1,300	4	1,300	E	44	--	--	N	N	
103	I & G N RR	--	--	635	2	635	C	37	.6	Apr. 14, 1931	N	N	
104	A. L. Hollins	--Matula	1939	138	2	138	CU	36	--	--	N	N	
201	Rucks & Enloe	--	1947	600	4	600	C	34	17.9 73.6	Mar. 3, 1948 Aug. 14, 1967	N	N	<u>3/</u>
202	Humble Oil & Refining Co.	L. Patterson	1945	618	4	618	CL	35	8.8 27.5	Oct. 7, 1946 Aug. 8, 1957	N	N	Screen from 594 to 617 ft. <u>1/3/</u>
301	Louis Klever	--Glosnich	1927	196	2	196	CU	28	--	--	N	N	
302	Hiram Moore Well 2	Humble Oil & Refining Co.	1953	9,562	--	--	--	33	--	--	--	--	Oil test. <u>2/</u>
401	M. T. Blackwell	L. Patterson	1955	220	12	220	CU	31	25	Mar. 1955	N	N	Screen from 139 to 149; 188 to 197; and 199 to 218 ft. <u>1/</u>
402	J. H. Blackwell Well 2	do.	1955	196	12	196	CU	31	54	May 1955	N	N	Screen from 135 to 156 and 178 to 194 ft. <u>1/</u>
403	J. H. Blackwell Well 1	do.	1955	206	12	206	CU	31	25	Mar. 1955	N	N	Well destroyed. <u>1/</u>
# 404	J. D. Hicks	Tom Weaver	1964	100	6	100	CU	31	22.3	May 26, 1967	Sub,E	S	Screen from 90 to 100 ft.
501	City of Angleton Well 7	L. Patterson	1960	874	13	874	CL	29	71	May 20, 1960	T,E	P	Screen from 660 to 690, and 828 to 846 ft. Reported pumping level 195 ft. at 503 gpm, May 1960. <u>2/</u>
502	City of Angleton Well 5	do.	1952	657	10	657	CL	29	34 80	July 1952 May 1960	T,E	P	Screen from 616 to 657 ft. Re- ported yield 350 gpm, 1960. Test hole drilled to 659 ft. <u>1/</u>
503	City of Angleton Well 6	do.	1954	675	10	675	CL	29	66.0 80.0	June 1954 May 1960	T,E	P	Screen from 631 to 671 ft. Re- ported pumping level 130 ft. at 413 gpm, Feb. 1959. <u>1/</u>

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-65-53-504	Humble Oil & Refining Co.	L. Patterson	1943	807	4	807	CL	33	13.2 71.2	Oct. 7, 1946 Aug. 14, 1967	N	N	Screen from 785 to 807 ft. <u>1/3/</u>
505	do.	do.	1939	628	4,3	628	CL	28	17.1 80.6	Mar. 3, 1948 Aug. 14, 1967	N	N	Screen from 588 to 621 ft. <u>1/3/</u>
# 506	City of Angleton Well 8	Layne Texas Co.	1966	850	--	--	CL	29	58.9	Feb. 10, 1967	T,E	P	Screen from 610 to 660; 680 to 702; 754 to 772; 780 to 795; and 830 to 845 ft.
507	Humble Oil & Refining Co.	L. Patterson	1939	793	4	793	CL	33	12.2	Oct. 7, 1946	N	N	Screen from 759 to 791 ft. <u>1/</u>
508	R. H. Carr	R. H. Carr	1935	206	2	206	CU	33	--	--	N	N	Screen from 196 to 206 ft.
509	Lee Oil Unit #1	Humble Oil & Refining Co.	1962	13,105	--	--	--	30	--	--	--	--	Oil test. <u>2/</u>
601	Farrer & Evans	L. Patterson	1955	238	12	238	CU	18	23	Mar. 1955	T,E	Irr	Screen from 158 to 169; 207 to 216; and 218 to 237 ft. <u>1/</u>
# 603	Texas Agricultural Experiment Station	O. Eberspacher	1940	324	4	324	C	21	14	May 1940	N	N	Screen from 302 to 314 ft. <u>1/</u>
604	Ed Bieri	--Mickelson	1946	324	13	324	C	17	5.7 5.4	Nov. 14, 1946 Feb. 13, 1967	C,H	D	Slotted pipe opposite all sands below 80 ft. Formerly used for rice irrigation. Reported yield 1,800 gpm, 1946. <u>3/</u>
# 605	Brazoria Co. WC & ID #8	Layne Texas Co.	1964	845	6	845	CL	27	67.3	Sept. 1, 1967	T,E	P	Screen from 630 to 645; 650 to 665; 680 to 690; 735 to 745; and 800 to 830 ft. Supplies water for 100 houses.
# 702	McCarthy Oil & Gas	L. Patterson	1946	812	4	812	CL	31	8.7 28.3	Mar. 3, 1948 Jan. 30, 1958	N	N	Screen from 788 to 812 ft. <u>3/</u>
703	Ed Verser	do.	1966	171	4	171	CU	31	21.9	May 9, 1967	--	Irr	Screen from 156 to 171 ft.
# 704	Govie Waller	do.	1963	285	4	285	C	30	20.3	May 12, 1967	Sub,E	D	
# 801	City of Angleton Well 3	Layne Texas Co.	1940	1,012	10	1,012	C	27	14.0	Nov. 1, 1940	N	N	Yield 250 gpm, Nov. 1940. <u>1/</u>
# 802	Richmond Tank Car Co.	L. Patterson	1960	865	4	865	CL	24	--	--	Sub,E	Ind	Screen from 768 to 780, and 800 to 812 ft.
# 803	City of Angleton Well 2	do.	1939	413	6	413	CL	27	15.3 18.9	Oct. 10, 1946 Aug. 23, 1951	N	N	Screen from 393 to 413 ft. Drilled to 1,000 ft. as test hole; filled to 413 ft. <u>1/3/</u>

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
# BH-65-53-804	City of Angleton Well 4	Layne Texas Co.	1944	933	10	933	CL	27	21 65.8	Nov. 6, 1944 Sept. 5, 1967	T,E	P	Screen from 730 to 747; 769 to 810; 818 to 838; and 902 to 931 ft. Reported pumping level 32 ft. at 210 gpm, Nov. 1944. <u>1/3/</u>
# 805	Texas-Louisiana Power Co.	L. Patterson	1923	336	6	336	C	27	16.0	Apr. 14, 1931	N	N	
# 806	B. M. Jamison	--	--	160	2	160	CU	26	--	--	N	N	
901	Farrer & Evans Well 1	L. Patterson	1955	264	12	264	CU	19	25	Mar. 14, 1955	N	N	Screen from 252 to 262 ft. Re- ported yield 1,000 gpm, 1955. Formerly used for irrigation. <u>1/</u>
# 902	Mrs. E. L. Cole	American Water Wells	1943	350	20	350	C	12	10.7	Feb. 2, 1967	T,E	Irr	Pumping level 60.4 ft. at 365 gpm, Apr. 19, 1967.
903	O. Eberspacher	--	1929	260	2	260	CU	13	6	May 25, 1939	N	N	Screen from 248 to 260 ft.
54-101	Brazoria Co. WC& ID #4	Texas Water Wells	1956	304	6	304	CU	23	22.9	May 24, 1967	T	P	Screen from 267 to 298 ft. Drill- ed to 710 ft; plugged back. <u>1/</u>
102	Danbury Inde- pendent School District	--	1931	96	--	--	CU	22	--	--	--	N	
103	Danbury Townsite	South Texas Development Co.	1907	600	6	600	C	22	19.4	May 18, 1939	--	N	Well destroyed.
# 201	McCullough Tool Co.	Katy Drilling Co.	1960	515	13	515	CL	21	75	May 20, 1960	T	Irr	Fills lake. Screen from 475 to 515 ft. Reported pumping level 200 ft. at 822 gpm, May 1960. <u>1/</u>
202	do.	--	--	212	2	212	CU	19	32	May 24, 1967	N	N	Well destroyed.
204	Joe Vrazel	Joe Vrazel	1920	20	24	20	CU	22	--	--	N	N	Dug well. Tile cased. Well destroyed.
401	J. M. Skrabanek	L. Patterson	1954	312	12	312	CU	18	9 13.2 6.1	Mar. 26, 1954 Aug. 9, 1960 May 24, 1967	T	Irr	Screen from 136 to 148; 150 to 167; 168 to 186; 190 to 194; 194 to 204; and 291 to 310 ft. <u>1/</u>
# 402	Watson Bros.	do.	1955	357	12	357	CU	16	6.4	Feb. 13, 1967	T	Irr	Screen from 188 to 208; 316 to 335; and 336 to 355 ft. <u>1/</u>
403	do.	do.	1955	335	12	335	CU	15	20.0 5.6	Aug. 12, 1960 Jan. 22, 1968	T	Irr	Screen from 173 to 190; 192 to 212; and 313 to 322 ft. <u>1/3/</u>
404	do.	do.	1955	224	12	224	CU	13	6.3	Feb. 14, 1967	T	Irr	Screen from 164 to 183; 188 to 202; and 204 to 222 ft. <u>1/</u>

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-65-54-405	Farrer & Tigner	L. Patterson	1955	337	12	337	CU	12	23	May 9, 1955	N	N	Screen from 197 to 219; 307 to 315; and 316 to 336 ft. Well destroyed. <u>1/</u>
# 406	Ed Bieri	--Mickelson	1946	327	18	327	CU	17	5.8	Feb. 13, 1967	T	Irr	
# 407	J. M. Skrabanek	Layne Texas Co.	1928	960	24,16, 12	960	CL	14	31.2 58.9	Aug. 28, 1946 Jan. 25, 1967	T,E	Irr	Slotted pipe opposite 5 sands between 499 and 870 ft. <u>1/3/</u>
# 409	Ed Bieri	L. Patterson	1946	1,141	--	--	--	17	--	--	N	N	Test hole.
# 411	M. W. Hammond	do.	1956	236	16	236	CU	12	5.3	Feb. 13, 1967	T,G	Irr	Screen from 104 to 119, and 202 to 233 ft. <u>1/</u>
# 501	do.	do.	1954	230	12	230	CU	12	17 20.5 3.7	June 11, 1954 Aug. 11, 1960 Feb. 13, 1967	T	Irr	Screen from 199 to 217, and 219 to 228 ft. <u>1/</u>
# 504	Walter Peltier	--Weinbrenner	1931	140	2	140	CU	11	--	--	N	N	Well destroyed.
601	T. H. Peltier	--Justman	1949	974	18	974	CU,CL	14	36.9 28.9	May 22, 1951 Aug. 9, 1960	T	N	Slotted pipe opposite sands from 100 to 974 ft. Not used since 1955. <u>2/</u>
602	Haskell Moore	--	--	600	24	600	C	14	20.7	Jan. 25, 1967	C,W	S	
603	Freeport Sulphur Co.	Layne Texas Co.	1927	623	24	623	C	14	27	June 23, 1927	N	N	Well destroyed.
604	do.	do.	1927	241	24	241	CU	13	--	--	N	N	Screen from 126 to 166 and 204 to 241 ft.
605	do.	do.	1927	614	24,15 10	614	CU,CL	14	29	July 19, 1927	N	N	Screen from 215 to 245; 536 to 553; and 553 to 573 ft. <u>1/</u>
801	C. M. Lemons	do.	--	911	24	--	C	8	--	--	N	N	Flowed when drilled. <u>1/</u>
901	Freeport Sulphur Co.	C. D. Simmons	1942	620	10	620	CU,CL	7	50	Sept. 1945	N	N	Screen from 225 to 235, and 590 to 620 ft. Test hole drilled to 628 ft. <u>1/</u>
# 902	do.	do.	1942	235	10	235	CU	7	50	do.	N	N	Screen from 195 to 235 ft.
# 903	do.	do.	1943	245	16	245	CU	7	50	do.	N	N	Screen from 195 to 235 ft. <u>1/</u>
# 904	do.	--	1922	592	6	592	CL	7	50	do.	N	N	Screen from 552 to 592 ft.
905	do.	C. D. Simmons	1944	239	10	239	CU	7	50	do.	N	N	Screen from 199 to 239 ft.
# 906	do.	do.	1946	240	10	240	CU	7	--	--	N	N	Screen from 192 to 212, and 220 to 240 ft.

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-65-54-907	Freeport Sulphur Co.	C. D. Simmons	1944	238	10	238	CU	7	50	Sept. 1945	N	N	Screen from 104 to 144, and 198 to 238 ft.
908	do.	do.	1945	248	10	248	CU	7	50	Oct. 4, 1946	N	N	Screen from 116 to 148, and 208 to 248 ft.
55-101	W. Cecil Sisson	Alameda Water Well Service	1967	329	4	329	CL	12	11	Apr. 1967	Sub,E	D	Screen from 319 to 330 ft. Test hole to 650 ft.
102	Chocolate Bayou Marina	--Crawford	1963	120	--	--	CU	7	--	--	J,E	P	Screen from 110 to 120 ft.
104	R. L. Lutes	E. Joseph	1956	140	4	140	CU	10	5.2	May 25, 1967	Sub,E	P	Screen from 125 to 140 ft.
# 301	Amerada Petroleum Co.	--	--	584	8	584	C	3	+ 3	May 1959	N	N	Flowed 6 gpm, May 1, 1939.
# 58-301	Rex C. Baker	--Matula	1965	185	3	185	CU	42	--	--	J,E	D	
# 302	D. Hargett	Old Ocean Machine Shop	1957	440	2	440	CL	43	14	Mar. 1957	J,E	D	Screen from 428 to 440 ft.
# 303	Maude Gaylen	Bill Coburn	1955	150	2	150	CU	42	--	--	J,E	D	Screen from 144 to 150 ft.
604	Phillips Petroleum Co. Well 2b	Layne Texas Co.	1956	194	12	194	CU	35	65	July 18, 1956	N	N	Screen from 140 to 180 ft. Well destroyed. <u>1/</u>
605	Fan American Petroleum Co.	Texas Water Wells	1951	173	20,14	173	CU	36	43	Feb. 27, 1966	T,Ng	Ind	Slotted from 84 to 172 ft. Test hole drilled to 180 ft. <u>1/</u>
606	Phillips Petroleum Co. Obs. Well 9	Layne Texas Co.	1953	157	20	157	CU	37	--	--	N	N	Well never used.
607	Phillips Petroleum Co. Obs. Well 3	--	1942	175	6	175	CU	36	20.9 39.0	Nov. 17, 1947 Feb. 27, 1966	N	N	Screen from 84 to 172 ft. <u>3/</u>
# 608	Phillips Petroleum Co. Well 2	M. N. Dannenbaum	1943	166	18	166	CU	35	30 68.9	Sept. 29, 1943 July 30, 1956	N	N	Screen from 102 to 162 ft. Destroyed. <u>3/</u>
609	Phillips Petroleum Co. Well 2a	Layne Texas Co.	1951	--	--	--	--	35	45.5	Jan. 25, 1956	N	N	Destroyed in 1956.
610	Phillips Petroleum Co. Well 2d	do.	1963	--	--	--	--	35	--	--	T,E	Ind	

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-65-58-611	Phillips Petro- leum Co. Well 8	Layne Texas Co.	1951	160	--	--	CU	36	20	Jan. 13, 1953	N	N	Screen from 108 to 158 ft. Abandoned 1957.
# 616	Phillips Petro- leum Co. Well 5	M. N. Dannenbaum	1943	715	18	715	CL	35	13	Sept. 29, 1943	N	N	Screen from 430 to 494, and 669 to 711 ft. <u>1/</u>
617	Phillips Petro- leum Co. Well 8b	Layne Texas Co.	1967	174	12	174	CU	39	60	Mar. 20, 1967	T	Ind	Screen from 130 to 170 ft. <u>1/</u>
# 618	Phillips Petro- leum Co. Well 11	do.	1956	169	12	169	CU	37	39	Jan. 29, 1958	T,E	Ind	Screen from 126 to 166 ft.
619	Phillips Petro- leum Co. Well 12	do.	1957	165	12	165	CU	35	46.0 43.0	Apr. 2, 1957 Jan. 17, 1966	T,E	Ind	Screen from 125 to 155 ft. <u>3/</u>
620	Phillips Petro- leum Co. Well 8a	do.	1957	172	12	172	CU	36	61	Mar. 14, 1964	N	N	Screen from 127 to 162 ft. Destroyed 1966. <u>1/</u>
905	L. D. Ware	--	--	215	12	215	C	28	16.7	Feb. 17, 1967	T,G	Irr	
906	do.	Katy Drilling Co.	1967	211	--	211	CU	28	18.9	do.	T,G	Irr	Slotted from 71 to 211 ft. Yield was 2,572 gpm, June 8, 1967.
59-104	Dick Flessner	--	--	113	2	113	CU	34	23.8	June 8, 1967	N	N	Screen from 107 to 113 ft.
201	Waldo Edling	B & D Drilling Co.	1956	100	12	100	CU	30	12	1956	T,G	Irr	Slotted from 50 to 100 ft. Irrigates grass.
203	Zaruba Bros.	--Matula	1966	134	2	134	CU	34	8	Dec. 1966	J,E	D	Screen from 126 to 134 ft.
# 301	Glen Ogden	do.	1946	137	2	137	CU	35	24	Jan. 1946	N	N	Screen from 125 to 137 ft.
# 302	J. E. Huffman	Ben Weinbrenner	1946	373	4	373	CL	34	17	Nov. 1946	N	N	Screen from 361 to 373 ft.
401	Phillips Petro- leum Co. Well 9a	Layne Texas Co.	1955	165	12	165	CU	40	56 52	Sept. 25, 1955 Jan. 25, 1956	N	N	Screen from 108 to 161 ft. Reported pumping level 114 ft at 495 gpm, July 1960.
402	Phillips Petro- leum Co. Well 9b	do.	1963	--	12	--	--	40	60	May 18, 1966	T	Ind	
403	Phillips Petro- leum Co. Well 4a	do.	1956	172	12	172	CU	35	50.8	Mar. 4, 1963	N	N	Screen from 122 to 162 ft. Well destroyed. <u>1/</u>
404	Phillips Petro- leum Co. Well 1a	do.	1957	174	20 18	-- 174	CU	34	64 47	Mar. 18, 1957 Jan. 28, 1966	T,E	Ind	Screen from 123 to 153 ft. Reported pumping level 120 ft at 696 gpm, March 18, 1957. <u>1/</u>

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-65-59-405	Phillips Petro- leum Co. Well 7a	Layne Texas Co.	1956	163	20 12	120 163	CU	36	60 40	Nov. 10, 1957 Jan. 10, 1966	T,G	N	Screen from 120 to 160 ft. Reported pumping level 121 ft. at 503 gpm, Nov. 10, 1957. <u>1/</u>
406	Phillips Petro- leum Co. Well 6d	do.	1956	184	20 12	129 184	CU	36	70 41.4	Nov. 8, 1956 Jan. 21, 1966	T,G	Ind	Screen from 137 to 177 ft. Reported pumping level 116 ft at 603 gpm, Nov. 8, 1956. <u>1/</u>
407	Phillips Petro- leum Co. Well 3c	do.	1956	171	12	171	CU	35	66	June 21, 1956	T,G	Ind	Screen from 126 to 166 ft. Reported pumping 116 ft at 602 gpm, June 21, 1956. <u>1/</u>
408	Pan American Petroleum Co.	Coastal Drilling Co.	1955	198	--	--	CU	36	45	Feb. 28, 1966	T,G	Ind	Screen from 123 to 143 ft. Test hole drilled to 200 ft. <u>1/</u>
409	do.	Texas Water Wells	1944	171	10	171	CU	36	43	June 17, 1965	N	N	Screen from 110 to 166 ft. Well destroyed. <u>1/</u>
410	Phillips Petro- leum Co. Obs Well 2	Layne Texas Co.	1943	161	3	161	CU	34	12.1 42.0	Jan. 8, 1943 Feb. 27, 1966	N	N	Screen from 133 to 148 ft. Observation well. <u>1/ 3/</u>
#	411	Phillips Petro- leum Co. Obs Well 1	do.	1942	4	150	CU	35	12.0 50.2	Oct. 1942 Aug. 14, 1967	N	N	Screen from 132 to 142 ft. Observation well. Test hole to 774 ft. Plugged back to 150 ft. <u>1/ 3/</u>
	413	Phillips Petro- leum Co. Well 6b	do.	1952	18	150	CU	36	42.0 70.2	Dec. 31, 1952 Aug. 14, 1967	N	N	<u>3/</u>
	414	Phillips Petro- leum Co. Well 6a	do.	1950	14	167	CU	36	38.4 44.5	Jan. 9, 1952 Aug. 14, 1967	N	N	<u>3/</u>
#	415	Phillips Petro- leum Co. Well 4	M. N. Dannenbaum	1943	--	169	CU	35	11.0 27.4	Jan. 15, 1946 Jan. 13, 1953	N	N	Screen from 105 to 165 ft. <u>1/ 3/</u>
	416	Phillips Petro- leum Co. Well 4b	Layne Texas Co.	1963	--	--	--	35	70	May 3, 1966	T	Ind	Reported yield 400 gpm, May 3, 1966.
#	417	Phillips Petro- leum Co. Well 1	--	1943	159	10	CU	34	6.6 49.5	Nov. 5, 1946 Jan. 25, 1956	N	N	Screen from 105 to 155 ft. <u>1/ 3/</u>
#	418	Phillips Petro- leum Co. Well 3	M. N. Dannenbaum	1943	--	164	CU	35	24.5 13.1	Sept. 29, 1943 Jan. 19, 1950	N	N	Screen from 100 to 162 ft. <u>1/ 3/</u>

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-65-59-419	Phillips Petro- leum Co. Well 3a	Layne Texas Co.	1951	--	--	--	--	35	51.5	Jan. 25, 1956	N	N	Abandoned in 1956
420	Phillips Petro- leum Co. Well 7	do.	1951	--	--	--	--	36	25.8 65.3 50.9	Jan. 13, 1953 Nov. 7, 1955 Jan. 25, 1956	N	N	Abandoned in 1956
421	Phillips Petro- leum Co. Well 10	do.	1953	170	12	170	CU	38	55 55	Apr. 9, 1953 July 1960	N	N	Screen from 120 to 170 ft. Test hole drilled to 348 ft. Reported pumping level 107 ft at 503 gpm, April 9, 1953. <u>1/</u>
422	Phillips Petro- leum Co. Well 6	do.	1948	169 80	14	169	CU	36	20.2 10.1	July 15, 1948 Sept. 20, 1949	N	N	Reported yield 760 gpm, July 15, 1948. <u>3/</u>
423	B. Chenualt	Henry Lane	1948	489	4 2	80 489	CL	37	36.0	June 8, 1967	J,E	D	Screen from 474 to 489 ft.
424	Pan American Petroleum Co. Well 2	Layne Texas Co.	1965	172	18	172	CU	36	30	Apr. 12, 1966	Cf,E	Ind	Do.
426	J. S. Abercrombie	Henry Lane	1942	140	4	140	CU	36	--	--	N	N	<u>1/</u>
# 427	Unknown	--	old	600	2	600	CL	36	+ 4	Oct. 26, 1936	N	N	Estimated flow 6 gpm, Oct. 26, 1936
428	Phillips Petro- leum Co.	Layne Texas Co.	1967	184	20	184	CU	38	54.2	Feb. 27, 1967	T,E	Ind	Screen from 140 to 180 ft. <u>1/</u>
429	Phillips Petro- leum Co. Well 7b	do.	1967	163	12	163	CU	38	6	Feb. 28, 1967	T,E	Ind	Screen from 120 to 160 ft. Reported pumping level 96.6 ft. at 503 gpm, Feb. 28, 1967. <u>1/</u>
501	Pan American Petroleum Co.	--	--	150	4	150	CU	23	12.4 13.7	Aug. 23, 1950 Aug. 14, 1967	N	N	<u>3/</u>
# 502	Texaco, Inc.	L. Patterson	1940	473	4	473	CL	23	3.1 13.9	Jan. 6, 1949 Jan. 25, 1956	N	N	Screen from 449 to 470 ft. Well destroyed. <u>1/ 3/</u>
503	H. R. Whitehead	--	--	150	--	150	CU	23	15.2 12.6 14.5	Aug. 23, 1949 Aug. 23, 1950 Feb. 6, 1951	N	N	
# 504	Clyde McKinney	--Burford	1930	120	2	120	CU	28	--	--	N	N	Well destroyed.
601	B. J. Losack	--	1960	610	3	610	C	24	26.6	Mar. 3, 1967	J,E	D	
# 602	do.	Davis Water Well Service	1967	615	3	615	CL	24	24	Feb. 27, 1967	J,E	D	Screen from 608 to 615 ft.

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTIITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
# BH-65-59-603	W. H. Burns	--Powell	1909	510	2	510	C	20	+ 4	Nov. 15, 1936	N	N	Flowed 10 gpm 1936
# 604	J. S. Montgomery	George Potvin	1935	85	2	85	CU	21	20	Oct. 15, 1936	N	N	
# 801	City of Sweeny	Henry Lane	1944	260	14	260	C	35	--	--	N	N	<u>1/</u>
# 802	do.	do.	--	506	--	506	CL	36	--	--	T,E	P	Screen from 476 to 506 ft. <u>1/</u>
# 803	City of Sweeny Well 2	Katy Drilling Co.	1956	188	10	188	CU	34	56 50.6	June 12, 1956 Sept. 7, 1967	T,E	P	Screen from 150 to 185 ft. Reported pumping level 117 ft at 600 gpm, June 12, 1956
# 804	City of Sweeny Well 3	Layne Texas Co	1960	185	14 8	128 185	CU	32	57 75	Nov. 27, 1960 June 30, 1967	T,E	P	Screen from 145 to 185 ft. Reported pumping level 96 ft at 302 gpm, Nov. 27, 1960.
# 805	J. M. Graham	--Guttenberger	1964	88	4	88	CU	25	11.8	Feb. 16, 1967	Sub,E	S	Screen from 78 to 88 ft.
# 806	do.	--Patterson	1959	198	6	198	CU	25	--	--	Sub,E	S	
# 807	R. R. Ramey	--	1910	160	4	160	CU	32	--	--	N	N	
# 808	A. K. Warters	--	1933	175	4	175	CU	26	16.2	Oct. 26, 1936	N	N	Well destroyed.
# 809	R. D. McDonald	--	1912	500	6	500	C	25	.0	do.	N	N	Reported to have flowed when drilled. Well destroyed.
# 901	Peerless Carbon	Henry Lane	1946	185	6	185	CU	21	10.4 18.0	Nov. 5, 1946 Feb. 4, 1958	N	N	Screen from 145 to 185 ft. <u>3/</u>
# 902	Charles Brewer	D. W. Powell	1918	562	2	562	CL	22	+ 4.3	Oct. 15, 1936	N	N	Screen from 544 to 562 ft. Estimated flow 10 gpm, Oct. 15, 1936.
# 903	A. J. Prebster	Shell Oil Co.	1936	850	2	850	C	22	+ 38	Oct. 22, 1936	N	N	
# 904	do.	L. Patterson	1916	125	2	125	CU	20	--	--	N	N	
# 60-201	David C. Bintliff	Texas Water Wells	1951	205	22	205	CU	30	19.9	Feb. 17, 1967	T,Ng	Irr	Formerly irrigation well, now used for recreation. Pumping level 98.6 ft at 707 gpm, Feb. 17, 1967
# 301	Texas Department of Corrections	Layne Texas Co.	1954	306	16	306	CU	20	20.2	July 27, 1960	N	N	Slotted from 121 to 151; 175 to 207; and 220 to 270 ft. Formerly irrigated rice, water became salty, well abandoned.
# 402	W. H. Brigance	Fred Powell	1916	500	2	500	C	21		Oct. 15, 1936	N	N	Estimated flow 25 gpm, Oct. 15, 1936.
# 501	City of Brazoria Well 1	Layne Texas Co.	1947	472	10	472	CL	28	59.8	May 3, 1967	T,E	P	Screen from 439 to 468 ft. <u>1/</u>

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-65-59-503	R. P. York	L. Patterson	1959	400	4	400	C	23	42.4	May 26, 1967	Sub,E	D	
504	do.	do.	1963	180	4	180	CU	23	21.1	do.	Sub,E	S	
# 505	Smith Bros. Gin	Harris, Powell & Gladney	1924	822	3	822	C	25	+ 4.5	Oct. 14, 1936	N	N	Flowed 7.5 gpm, May 20, 1937.
# 506	Brazoria Inde- pendent School District	--	--	125	3	125	CU	25	17	1935	N	N	Well destroyed.
# 507	do.	--	1934	125	2	125	CU	25	--	--	N	N	
# 508	Brazoria County Court House	--	1896	1,200	6	1,200	E	25	+3	Oct. 12, 1936	N	N	Flowed 4 gpm, Oct. 17, 1936.
# 509	Stranger Bros.	G. Potvin	1930	140	4	140	CU	25	28	1930	N	N	Well destroyed.
# 510	J. S. Montgomery	--	1926	150	2	150	CU	26	--	--	N	N	
# 511	R. F. Prel	August Potvin	1930	126	2	126	CU	28	18	1936	N	N	Well destroyed.
603	W. W. Lowry	--Tarrant	1963	517	3	517	CL	18	42	1963	J,E	D	Screen from 497 to 517 ft.
604	do.	do.	1956	207	3	207	CU	18	22.9	May 3, 1967	N	N	Screen from 197 to 207 ft.
# 701	J. O. Fossil	J. O. Fossil	1930	460	2	460	CL	20	+3	Oct. 15, 1936	N	N	Screen from 440 to 460 ft.
# 702	L. J. McNeill	L. J. McNeill	1935	40	2	40	CU	15	--	--	N	N	
801	Maxey Ross	Buba Gotcher	1963	85	2	85	CU	24	17.6	July 16, 1967	J,E	D	Open end, no screen.
802	do.	Maxey Ross	1960	32	3	32	CU	24	7.6	do.	N	N	
803	J. Scarborough	--Johnson	1966	182	2	182	CU	26	19	Sept. 1966	J,E	D	Open end, no screen.
# 804	H. C. Hayslip	L. Patterson	1926	494	8	494	CL	25	4.5 12.9	Oct. 1926 May 18, 1937	N	N	Screen from 466 to 494 ft.
# 805	--Hinkle	--	1926	57	3	57	CU	27	16.5	Oct. 22, 1936	N	N	
# 806	City of Brazoria	Layne Texas Co.	1953	482	10	482	CL	28	63.1	May 3, 1967	T,E	P	Screen from 420 to 440 and 450 to 470 ft. 1/
61-101	Texas Department of Corrections	Katy Drilling Co.	1958	383	12	383	C	24	43	Dec. 2, 1958	T,E	P	Screen from 335 to 381 ft. Test hole drilled to 488 ft. Reported pumping level 150 ft at 174 gpm, Dec. 2, 1958. 1/
# 102	do.	J. Siegert & Sons	1958	199	16	199	CU	27	23 30.1	Jan. 1958 July 27, 1960	T	Irr	Slotted from 131 to 199 ft. Report- ed pumping level 60 ft at 1,230 gpm, June 1958. Test hole drilled to 266 ft. 1/

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
<u>Brazoria County</u>													
BH-65-61-103	L. O. Harris	L. Patterson	1954	241	16	241	CU	25	18	Feb. 21, 1954	N	N	Screen from 146 to 186 and 200 to 240 ft. Formerly irrigation, water turned salty, destroyed. 1
104	Texas Department of Corrections	Layne Texas Co.	1949	414	10	414	CL	25	--	--	T,E	P	Screen from 348 to 392 ft. Reported pumping level 90 ft at 150 gpm, Sept. 11, 1956.
# 105	Humble Oil & Refining Co.	L. Patterson	1960	885	6 4	275 885	CL	27	30	Mar. 1960	N	N	Screen from 861 to 884 ft. Water reported to be salty; well abandoned. 1
# 106	Texas Department of Corrections	--	old	900	3	900	C	27	4.2 36.0	Nov. 8, 1946 Feb. 3, 1964	N	N	Reported to be flowing July 1941. Destroyed. 3
# 107	do.	State of Texas	1937	1,000	6	1,000	CL	25	--	--	N	N	Reported flowed until 1942. Screen from 970 to 1,000 ft.
# 201	B. M. Jaimson	O. Eberspacher	--	735	2	735	C	21	4.2	Nov. 8, 1946	N	N	
# 205	Angleton Fishing and Hunting Club	Texas Water Wells	1954	900	18	900	C	16	--	--	T,E	Irr	
208	Ted Merchant	Johnson Bros.	1956	555	4 2	150 555	CL	23	40	1962	J,E	D	Screen from 540 to 555 ft.
211	Angleton Fishing and Hunting Club	Texas Water Wells	1967	530	16,12	530	CU,CL	16	--	--	T	Irr	Slotted pipe from 131 to 156; 235 to 295; 310 to 320; 350 to 435; 450 to 470; and 495 to 520 ft.
212	Retrieve State Farm	Humble Oil & Refining Co.	1962	14,000	--	--	--	15	--	--	--	--	Tract #4 Well #1. Oil Test. 2
# 301	J. H. Tigner	L. Patterson	1956	626	12	626	CU,CL	9	28	Jan. 24, 1956	T,E	Irr	Screen from 271 to 290; 416 to 434; and 606 to 624 ft. Reported yield 801 gpm, June 20, 1967. 1
# 302	E. L. Coale	Katy Drilling Co.	1965	498	--	498	C	12	--	--	T,E	Irr	Yield 1,600 gpm, June 30, 1967.
303	do.	American Water Co.	1946	490	20	490	C	12	16.3	Feb. 2, 1967	N	N	Well destroyed.
# 401	Texas Department of Corrections	J. B. Dunn	1956	225	12	225	CU	21	30	Dec. 1956	T,G	Irr	Screen from 38 to 50 ft. Slotted 137 to 224 ft.
# 402	Dow Chemical Co.	Layne Texas Co.	1953	192	2	192	CU	20	26 26.2	Dec. 9, 1953 Feb. 8, 1967	N	N	Screen from 172 to 182 ft. Test hole to 242 ft. Observation well. 1
404	do.	L. Patterson	1961	708	4	708	CL	20	43	Aug. 7, 1961	Sub,E	P	Screen from 697 to 707 ft. 1

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
# BH-65-61-405	Texas Department of Corrections	L. Patterson	--	450	2	450	C	21	--	--	N	N	
502	Angleton Fishing and Hunting Club	do.	1950	300	4	300	CU	14	45.7	May 2, 1967	Sub,E	D	
503	Glenwood Bayou	American Water Wells	1964	336	6	336	CU	14	47.6	May 5, 1967	J,E	P	Screen from 316 to 336 ft. Sup- plies about 40 houses.
506	--Garrett	--Tarrant	1960	270	4	270	CU	19	43.0	do.	Sub,E	N	
# 507	City of Lake Jackson Well 4	Texas Water Wells	1953	230	16	230	CU	18	43 43.6	Jan. 19, 1955 Jan. 19, 1956	N	N	Reported pumping level 117 ft at 450 gpm, Jan. 19, 1955, well deep- ened in 1964, old screens plugged.
# 508	do.	Layne Texas Co.	1964	338	16 10	165 338	CU	18	54 63.8	June 25, 1964 Jan. 26, 1967	T,E	P	Screen from 303 to 328 ft. Test hole drilled to 341 ft. Reported pumping level 113 ft. at 453 gpm, June 25, 1964. 1/
509	City of Lake Jackson Well 7	do.	1968	327	--	--	CU	18	--	--	T	P	Screen from 302 to 327 ft.
510	do.	do.	1967	896	--	--	--	18	--	--	N	N	Test hole.
601	Fred Waltermire	L. Patterson	1957	701	10	701	CU,CL	11	35	Oct. 11, 1957	T,G	Irr	Screen from 310 to 325 and 661 to 697 ft. Reported yield 700 gpm, Oct. 11, 1957. 1/
602	F. A. Brock	do.	1938	847	4	847	C	10	--	--	N	N	Estimated flow 25 gpm, May 25, 1939.
603	C. P. Davidson Well 2	H. H. Back	1962	235	4	235	CU	13	--	--	J,E	P	Screen from 225 to 235 ft. Sup- plies subdivision, 85 connections.
# 605	R. Stringfellow	Henry Lane	1941	292	4	292	CU	12	8.9	July 11, 1941	N	N	
606	F. A. Brock	--	1927	801	2	801	C	12	+ 5	May 25, 1939	N	N	Estimated flow 6 gpm, May 25, 1939.
701	Texas Department of Correction Well 4	Layne Texas Co.	1967	358	15	358	C	14	39.6	Sept. 7, 1967	N	P	Will be public supply well.
702	Texas Department of Correction Well 5	do.	1967	358	15	358	C	14	45.0	do.	T,E	P	Supplies water for prison.
703	do.	Texas Water Wells	1965	358	--	--	--	14	--	--	N	N	Test hole #1. 1/

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-65-61-704	Texas Department of Correction Well 5	Texas Water Wells	1965	358	--	--	--	14	--	--	N	N	Test hole #2. <u>1/</u>
705	do.	do.	1965	358	--	--	--	14	--	--	N	N	Test hole #3. <u>1/</u>
706	do.	do.	1965	307	--	--	--	14	--	--	N	N	Test hole.
801	City of Lake Jackson Well 5	do.	1956	323	16,10	323	CU	12	52 58.3	July 1956 Jan. 26, 1967	T,E	P	Screen from 290 to 320 ft. Re- ported pumping level 97 ft. at 328 gpm, July 1956. <u>3/</u>
802	City of Lake Jackson Well 6	Layne Texas Co.	1957	328	16	328	CU	12	38.2 57.3	Jan. 27, 1961 Jan. 20, 1967	T,E	P	Screen from 290 to 325 ft. Test hole drilled to 345 ft. Reported pumping level 90 ft. at 323 gpm, Aug. 15, 1957. <u>1/ 3/</u>
804	City of Lake Jackson Well 3	do.	1948	239	16	239	CU	12	25.0 38.8	Aug. 24, 1949 Jan. 26, 1967	T,E	P	Screen from 217 to 238 ft. Test hole drilled to 300 ft. Pumping level 73.8 at 300 gpm, Aug. 24, 1950. <u>1/ 3/</u>
# 805	City of Lake Jackson Well 2	do.	1943	234	16 8	160 234	CU	13	27.5 46.2	July 8, 1943 Jan. 26, 1967	T,E	P	Screen from 164 to 180, and 204 to 230 ft. Reported pumping level 42 ft. at 145 gpm, July 8, 1943. <u>1/ 3/</u>
# 806	Dow Chemical Co. Obs. Well 10	Layne Texas Co.	1953	250	2	250	CU	14	40.9 40.7	Aug. 11, 1954 July 29, 1966	N	N	Screen from 213 to 223, and 230 to 240 ft. Test hole drilled to 251 ft. Dow observation well. <u>1/ 3/</u>
# 807	City of Lake Jackson Well 1	do.	1942	195	16 8	162 195	CU	12	32 47.7	Sept. 12, 1942 Aug. 7, 1957	N	N	Screen from 162 to 178 ft. Well destroyed. <u>1/ 3/</u>
808	Bob Jackson	Chrysty Kuhlmann	1964	600	4	600	CL	14	--	--	Sub,E	P	Screen from 580 to 600 ft.
901	City of Clute Well 2	Layne Texas Co.	1952	252	16 10 8	197 -- 252	CU	17	49 60	Feb. 1952 June 1960	T,E	P	Screen from 205 to 245 ft. Test hole drilled to 326 ft. <u>1/</u>
902	City of Clute Well 1	do.	1948	250	14	250	CU	17	55 65	Apr. 1948 Jan. 1960	T,E	P	Slotted from 198 to 238 ft. <u>1/</u>
903	City of Lake Barbara	do.	1956	229	6	229	CU	13	62	Aug. 1956	N	N	Screen from 206 to 226 ft. Well abandoned 1962. <u>1/</u>
904	Houston Lighting & Power Co.	do.	1967	301	8	301	CU	9	--	--	C,E	Ind	Service center.
905	City of Lake Barbara	do.	1962	252	14 8	202 252	CU	9	47 52.6	June 4, 1962 May 11, 1967	T,E	P	Screen from 205 to 235 ft. Reported pumping level 71.4 ft. at 210 gpm, June 4, 1962. <u>1/</u>

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	Driller	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-65-61-906	Red Barn Chemical Co.	--	1965	241	4	241	CU	6	20.2	May 11, 1967	Sub,E	Ind	Screen from 221 to 241 ft. <u>1/</u>
907	C. L. Cobb	Lee Cobb	1938	234	2	234	CU	12	8.6	May 27, 1939	N	N	Screen from 226 to 234 ft.
# 908	R. Stringfellow	--	--	184	2	184	CU	14	10	1941	N	N	
909	do.	Henry Lane	1941	745	2	745	C	14	--	--	N	N	<u>1/</u>
# 910	J. E. Parnell	Harvey Back	1961	265	3	265	CU	11	--	--	J,E	D	Screen from 257 to 265 ft.
# 911	Dow Chemical Co. Well 5	Layne Texas Co.	1942	239	16	239	CU	6	23	Feb. 26, 1942	N	N	Screen from 215 to 237 ft. Well destroyed. <u>1/</u>
912	do.	.do.	1956	232	16,10	232	CU	6	--	--	T,E	Ind	Screen from 208 to 230 ft.
# 62-101	W. D. Evans	L. Patterson	1955	311	10	311	CU	6	34.5 23.0	Aug. 19, 1960 Feb. 3, 1967	T,G	Irr	Screen from 289 to 310 ft. <u>1/</u>
# 102	do.	do.	1954	310	10	310	CU	5	18	Mar. 1954	T,G	Irr	Screen from 293 to 307 ft. <u>1/</u>
# 103	do.	do.	1954	309	10	309	CU	5	17	do.	T,G	Irr	Screen from 292 to 309 ft. <u>1/</u>
# 104	do.	do.	1958	308	13	308	CU	4	19.7	Feb. 3, 1967	T,G	Irr	Screen from 140 to 148, and 266 to 306 ft. <u>1/</u>
# 105	A. E. Peterson	O. Eberspacher	1915	70	2	70	CU	7	+	May 1939	N	N	Flowing in 1939. No screen.
# 106	L. H. Follett	L. Patterson	1940	301	4	301	CU	6	1	Nov. 1940	N	N	Screen from 280 to 301 ft. <u>1/</u>
107	E. E. White	--	1917	300	2	300	CU	6	+	May 1939	N	N	Flowing in 1939.
108	do.	--	1928	300	--	--	CU	6	+	do.	N	N	Do.
109	O. Eberspacher	O. Eberspacher	1925	740	--	--	C	5	+	do.	N	N	Do.
301	Walker Bros.	L. Patterson	1957	261	14	261	CU	7	13.1	Feb. 10, 1967	T,G	Irr	50 ft of screen between 133 and 258 ft.
302	Mound Company	do.	1956	269	16	269	CU	5	11.9	Feb. 14, 1967	T,E	Irr	40 ft of screen between 224 and 258 ft.
# 303	T. B. Groom	D. Hall	1962	290	4	290	CU	6	24.6	May 10, 1967	Sub,E	P	Screen from 270 to 290 ft.
304	I. G. Audish	L. Patterson	1957	300	4	300	CU	6	23.3	do.	Sub,E	P	Screen from 280 to 300 ft.
401	W. D. Evans	do.	1957	324	7	324	CU	8	61.2	June 26, 1967	C,E	Irr	Screen from 301 to 321 ft. Used for recreation. <u>1/</u>
402	J. T. Stratton	do.	1927	578	2	578	C	17	+	May 1939	N	N	Flowing in 1939.
404	Dow Chemical Co.	--	1946	145	6	145	CU	17	21.4	Oct. 7, 1946	T	Ind	

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-65-62-601	U.S. Dept. of Interior	L. Patterson	1956	274	4	274	CU	6	26.3	May 10, 1967	C,W	S	Screen from 268 to 274 ft.
602	do.	--	--	--	4	--	--	8	21.0	do.	C,W	N	
# 603	do.	L. Patterson	1955	278	4	278	CU	6	20.8	do.	C,W	S	Screen from 272 to 278 ft.
# 604	L. L. Rhodes	Dan Felder	1963	190	4	190	CU	10	--	--	C,W	S	Screen from 180 to 190 ft. Pumping level 24.2 ft at 6 gpm, May 10, 1967.
701	Oyster Creek	John Crowley	1954	234	2	234	CU	8	70	Oct. 1966	J,E	P	Screen from 226 to 234 ft.
702	Fred A. Brock, Jr.	L. Patterson	1955	225	10	225	CU	5	53	Oct. 1953	T,E	Irr	Screen from 218 to 223 ft.
801	C. A. Clark	Patton	1961	239	3	239	CU	6	--	--	J,E	P	Screen from 224 to 239 ft.
# 802	do.	do.	1965	239	4	239	CU	10	--	--	Sub,E	P	Do.
804	Oyster Creek Estates	--	--	350	3	--	C	6	--	--	J,E	P	Supplies water for 6 houses.
805	Oyster Bay	--	--	--	--	--	--	6	--	--	--	P	
901	L. L. Rhodes	Burige and Crowley	1955	190	4	190	CU	2	--	--	C,W	S	Screen from 182 to 190 ft. Pumping level 24.1 ft at 7 gpm, May 11, 1967.
# 64-401	Treasure Isle	--	--	275	4	275	CU	3	10.4	Mar. 22, 1967	Sub,E	P	Screen from 258 to 268 ft. Supplies water for 20 houses.
# 81-03-203	D. R. Alford	Davis Water Wells	1966	500	4	500	CL	23	18.9	Feb. 16, 1967	Sub,E	D	Screen from 488 to 500 ft.
# 301	J. H. Raburn	Davis Bros.	1961	467	2	467	CL	24	--	--	J,E	D	Screen from 445 to 467 ft.
901	Craig Estate	--	1937	117	3	117	CU	10	5.6 3.5	Jan. 6, 1949 Jan. 30, 1961	N	N	Well destroyed in 1961. <u>3/</u>
903	John Craig	F. W. Gotcher	1964	108	6	108	CU	13	--	--	Sub,E	S	Screen from 102 to 108 ft. <u>1/</u>
# 04-201	Holliday Land Co.	Layne Texas Co.	1953	525	16	525	CL	13	193	Oct. 1953	Sub,E	P	Screen from 450 to 490 ft. Reported pumping level 291 ft. at 328 gpm, 1953. <u>1/</u>
202	do.	Jefferson Lake Sulphur Co.	1940	506	8	506	CL	13	30.4	Sept. 7, 1967	N	N	Test hole drilled to 511 ft. Screen from 468 to 505 ft. <u>1/</u>
203	Jefferson Lake Sulphur Co.	do.	1948	98	14	98	CU	13	14	1956	N	N	Reported to yield 210 gpm in 1956. <u>1/</u>

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-81-04-204	Holliday Land Co.	Henry Lane	1955	112	16	112	CU	13	22.2	Sept. 7, 1967	N	N	Slotted pipe between 54 and 110 ft. Reported to yield 300 gpm June 1960. <u>1/</u>
205	Jefferson Lake Sulphur Co.	Raymond Weinbrenner	1937	98	8	98	CU	13	9	1937	N	N	Test hole drilled to 100 ft. Screen from 78 to 98 ft. <u>1/</u>
206	do.	--	1958	689	14 8	423 689	C	13	--	--	N	N	
207	do.	Bernard Patton	1953	78	8	78	CU	11	--	--	N	N	Screen from 62 to 78 ft. Well destroyed. Test hole drilled to 86 ft. <u>1/</u>
208	Phillips Petroleum Co.	Davis	1966	81	4	81	CU	14	--	--	J,E	Ind	Screen from 74 to 81 ft.
209	A. J. Proebstle	--	--	65	4	65	CU	11	--	--	J,E	Irr	
210	Melvin Hall, Jr.	Melvin B. Hall	1944	37	3	37	CU	7	5	Aug. 1944	C,H	D	
# 211	Jefferson Lake Sulphur Co.	L. Patterson	1936	746	2	746	C	13	+ 12	Oct. 1936	N	N	Reported flow 30 gpm in 1936.
# 212	do.	Layne Texas Co.	1937	500	13	500	C	13	25	Mar. 1937	N	N	
213	do.	Jefferson Lake Sulphur Co.	1939	504	14,8	504	C	13	180	1946	--	--	<u>1/</u>
301	Texas Department of Corrections	Layne Texas Co.	1952	565	10	565	C	24	50	1952	T,E	P	Reported yield 242 gpm in 1952.
302	do.	Tom Worrel	1942	650	3	650	CL	25	40 47.5	Aug. 23, 1949	C,W	S	Screen from 638 to 650 ft. <u>3/</u>
303	do.	B and P Contractors	1964	207	4	207	CU	17	--	--	N	N	Slotted pipe from 185 to 207 ft.
304	do.	Tom Worrel	1940	253	6	253	CU	24	23	1940	N	N	Screen from 233 to 253 ft.
305	do.	do.	1940	558	8	558	CL	24	38	1940	N	N	Screen from 538 to 558 ft.
# 307	Humble Oil & Refining Co.	Humble Oil & Refining Co.	1926	1,000	4	1,000	C	23	+ 5	Oct. 1936	C,W	N	
# 308	--	--	old	700	3	700	C	19	+ 5	Nov. 1936	N	N	
309	Kate Hunington	F. Powell	1909	478	2	478	C	15	.0	Oct. 1936	N	N	Reported flowed when drilled.
# 310	E. N. Krause	L. Patterson	1920	578	2	578	C	15	+ 2	do.	J,E	D	
# 401	M. N. Percy	--	1910	500	2	500	C	19	4	May 1937	N	N	Stopped flowing in 1936.

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS	
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT				
Brazoria County														
# BH-81-04-501	T. J. Poole	Powell	1915	580	--	580	C	8	+ 3	May	1937	--	D,S	
502	J. T. Hinkle	do.	1920	550	2	550	C	8	+ 22		1920	J,E	S	
503	Octo Ramin	Charlie Burrridge	1945	578	2	578	CL	11	23		1961	J,E	P	Supplies water for 8 cabins and restaurant. Screen from 540 - 577 ft.
# 504	J. T. Hinkle	Powell	1920	250	2	250	CU	9	.0	May	19, 1937	C,W	S	Screen from 232 to 250 ft. Flowed until Apr. 1937.
506	do.	B. Patten	1954	55	4	55	CU	16	7	July	1967	C,W	S	Open hole.
# 507	do.	--	1917	560	2	560	C	9	+ 2.5	May	1937	N	N	
508	do.	Henry Lane	1948	340	4	340	C	9	9	July	1967	C,W	S	Screen from 330 to 340 ft.
509	Charles Kelso	L. Patterson	1967	180	6	180	CU	6	7.2	July	19, 1967	A,G	Irr	Used for recreation.
# 510	E. D. Pearson	O. Eberspacher	1930	485	2	485	C	9	+ 3	Oct.	1936	N	N	Reported to flow 3 gpm Oct. 1936.
# 511	L. J. McNeill	L. Patterson	1915	700	2	700	C	10	+ 2		do.	J,E	S	
512	R. E. Gray	Chrysty Kuhlmann	1963	585	4	585	C	9	--		--	Sub,E	D	
513	do.	do.	1965	587	4	587	C	9	21.9	July	19, 1967	Sub,E	D	
601	S. S. Perry, Jr.	L. Patterson	1959	532	4	532	CL	5	23	July	1967	C,W	S	Screen from 520 to 532 ft.
603	do.	--	1954	150	4	150	CU	6	7		do.	C,W	S	
# 604	do.	L. Patterson	1964	579	4	579	CL	11	25	May	1964	C,W	S	Screen from 562 to 577 ft.
701	J. L. Ducroz	--	--	763	3	763	C	10	3.7 17.0	Jan. Feb.	6, 4, 1949 1958	N	N	Water level measurements discontinued in 1958 ^{3/}
# 702	do.	O. Eberspacher	1930	542	2	542	CL	10	+ 3.8 31.1	May Jan.	18, 26, 1937 1956	N	N	Screen from 532 to 542 ft. Reported flowed 15 gpm in 1937. ^{3/}
# 703	Craig Estate	Powell	1916	600	2	600	C	11	+ 3.3	May	18, 1937	N	N	Well destroyed.
# 801	T. J. Poole	L. Patterson	1918	590	2	590	C	7	+ 2.0		do.	C,W	S	Reported flowed 20 gpm in 1918.
# 802	do.	do.	1918	580	3	580	C	9	+ .3	Jan.	6, 1949	N	N	
803	do.	--	1937	--	4	--	--	8	3.2 5.3	Jan. July	6, 28, 1949 1953	N	N	^{3/}
# 901	do.	--	1931	580	4	580	C	6	4	Oct.	1936	C,W	D	Pumping level 15.4 ft. May 18, 1937.

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
# BH-81-04-902	T. J. Poole	--	1910	580	3	580	C	6	+ 7	Oct. 1936	N	N	
# 903	do.	Powell	1917	618	2	618	C	6	+ 15	May 1936	N	D,S	
# 904	S. Allen	do.	1918	1,000	4	1,000	C	6	+ 3	May 1937	N	N	Reported yield 13 gpm in 1937.
# 905	Nelson Bell	--	1932	600	3	600	C	2	4	Oct. 1937	N	N	
# 906	C. A. Ducroz	Elmer Dakes	1948	520	3	520	CL	6	15	May 1967	C,W	D	Screen from 508 to 520 ft.
907	Benard Acres	L. Patterson	1959	576	4	576	C	6	19.7	July 19, 1967	J,E	P	Supplies water for 23 houses.
908	E. R. Collins	Chrysty Kuhlmann	1962	556	2	556	CL	6	23	May 1962	J,E	D	Screen from 546 to 556 ft. <u>1/</u>
909	Rupert Radford	do.	1962	554	4	554	CL	6	23	Aug. 1962	Sub,E	D	Screen from 544 to 554 ft. <u>1/</u>
05-101	H. A. Bryan	Tarrant Water Well Service	1967	228	2	228	CU	17	--	--	J,E	D	Screen from 200 to 228 ft.
102	Jones Creek Terrace	Chrysty Kuhlmann	1965	550	4	550	CL	17	23.2	July 19, 1967	Sub,E	P	Screen from 530 to 550 ft. Supplies water for 10 houses.
103	Austin Brazosport Ind. School Dist.	L. Patterson	1952	297	6	297	CU	9	--	--	T,E	P	Screen from 257 to 297 ft.
301	Dow Chemical Co. Well 20	Layne Texas Co.	1950	1,135	14	1,135	CL	8	8 25.2 25.8	Aug. 30, 1950 July 11, 1967 Oct. 5, 1967	T,E	N	Test hole drilled to 1,143 ft. Screen from 1,024 to 1,126 ft. 980 ft of 14 inch casing; 153 ft of blank liner at bottom. Reported yield 1,035 gpm with drawdown of 36 ft July 1967. <u>1/ 2/</u>
302	City of Freeport Well 10	do.	1960	325	10	325	CU	7	41.0 40.5	Jan. 28, 1964 Jan. 26, 1965	T	P	Screen from 167 to 192 ft.
# 303	Dow Chemical Co. Obs. Well 12	do.	1953	212	2	212	CU	7	42.4 33.3 44.5	Dec. 28, 1953 Jan. 1960 Jan. 3, 1967	N	N	Screen from 172 - 182 and 192 - 202 ft. Observation well. Test hole at 262 ft. <u>1/</u>
# 304	Dow Chemical Co. Obs. Well 8	do.	1953	238	2	238	CU	7	43.1 39.0 53.5	Dec. 28, 1953 Jan. 1960 Jan. 31, 1967	N	N	Screen from 198 - 208 and 218 - 228 ft. Owner's observation well. Test hole to 261 ft. <u>1/</u>
# 305	Dow Chemical Co. Obs. Well 9	do.	1953	240	2	240	CU	7	42.3 39.0 56.0	Dec. 28, 1953 Jan. 1960 Jan. 31, 1967	N	N	Screen from 200 - 210 and 220 - 230 ft. Owner's observation well. Test hole to 241 ft. <u>1/</u>
306	Dow Chemical Co. Obs. Well 7	do.	1953	233	2	233	CU	8	43.9 51.5 56.0	Dec. 28, 1953 Jan. 29, 1965 Jan. 31, 1967	N	N	Screen from 190 - 220 and 213 - 223 ft. Owner's observation well. Test hole to 250. <u>1/</u>

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-81-05-307	Dow Chemical Co.	Layne Texas Co.	1942	225	16,8	225	CU	7	13 57.4	Feb. 13, 1942 July 11, 1967	T,E	Ind	Screen from 201 to 223 ft. <u>1/</u>
308	do.	do.	1943	233	--	233	CU	8	59	June 1943	N	N	Screen from 207 to 234 ft. Reported pumping level 71 ft. at 145 gpm June 6, 1943. Well destroyed. <u>1/</u>
309	do.	do.	1943	230	--	230	CU	8	48	do.	N	N	Screen from 174 to 186 and 227 ft. Pumping level 59 ft. at 150 gpm June 1943. <u>1/</u>
312	Dow Chemical Co. Well 4	do.	1942	249	16	249	CU	9	27	Jan. 1942	T,E	Ind	Screen from 213 to 248 ft. Reported yield 455 gpm Jan. 1942. <u>1/</u>
314	Dow Chemical Co. Well 6	do.	1942	237	--	237	CU	9	--	--	N	N	Screen from 179 to 195 ft.
315	Dow Chemical Co. Well 19b	do.	1950	1,146	20 14 8	18 967 1,146	CL	8	27.8	July 11, 1967	T,E	Ind	Test hole drilled to 1,150 ft. Screen from 977 to 1,127 ft. <u>1/</u>
316	Dow Chemical Co. Well 10	do.	1943	236	10	236	CU	9	48	May 1943	T,E	Ind	Screen from 203 to 233 ft. Reported pumping level 53 ft at 145 gpm, May 1946. <u>1/</u>
317	Dow Chemical Co. Well 9	do.	1942	1,065	12 8	924 1,065	CL	9	+ 4 25.4 26.6	July 2, 1942 Oct. 3, 1967 Oct. 4, 1967	N	N	Screen from 928 to 1,061 ft. Test hole drilled to 1,238 ft. Reported pumping level 30 ft. at 800 gpm, July 1942. <u>1/</u>
318	Dow Chemical Co.	do.	1942	1,065	12 8	924 1,065	CL	9	25.3	Oct. 3, 1967	N	N	Screen from 924 to 1,056 ft. Reported pumping level 30 ft at 800 gpm, July 1942. <u>1/</u>
319	Dow Chemical Co. Well 8	do.	1966	234	10	234	CU	8	58.6	July 11, 1967	T	Ind	Screen from 207 to 234 ft.
601	Dow Chemical Co. Well 17	do.	1950	248	16	248	CU	15	140.5	Dec. 30, 1966	N	N	Screen from 208 to 232 ft. Reported pumping level 176 ft. at 465 gpm, June 1967.
# 602	Dow Chemical Co. Obs. Well 13	do.	1953	246	2	246	CU	14	119.5 160.5	Dec. 18, 1953 Jan. 29, 1967	N	N	Screen from 226 to 236 ft. Observation well. Test hole to 257 ft. <u>1/3/</u>
603	Dow Chemical Co. Well 6	do.	1940	252	12 6	213 252	CU	15	22	May 1940	N	N	Screen from 226 to 246 ft. Test hole drilled to 254 ft. <u>1/</u>
604	Dow Chemical Co. Well 7	do.	1940	253	13	253	CU	15	28 83	June 1940 June 1941	N	N	Well destroyed. Reported pumping level 62 ft at 425 gpm, June 1940. <u>1/</u>

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-81-05-605	Dow Chemical Co. Well 14	Layne Texas Co.	1942	230	16	230	CU	15	--	--	N	N	Screen from 175 to 206 ft. 1
606	Dow Chemical Co.	do.	1953	301	--	301	CU	15	--	--	N	N	Observation well #4. Not completed. 1
607	do.	do.	1953	281	--	281	CU	7	--	--	N	N	Observation well #5. Not completed. 1
701	Ernie's Acres	Buba Gotcher	1967	435	4	435	C	7	16.7	July 18, 1967	Sub,E	P	Supplies water for 20 houses.
702	do.	Russell	1955	450	2	450	C	7	--	--	J,E	P	
703	do.	Gotcher	--	470	1	470	C	7	--	--	J,E	D	
# 704	C. H. Faith	Chrysty Kuhlmann	1961	618	4	618	CL	4	6.2	July 18, 1967	Sub,E	P	Screen from 608 to 618 ft. Supplies water for 40 houses.
802	G. D. Bullington	Grothe	1965	547	2	547	CL	4	7	June 1965	J,E	P	Screen from 535 ft. Supplies water for 8 homes.
803	Mrs. Leard	--	--	500	3	500	CL	4	6.8	July 18, 1967	Sub,E	D	Screen from 488 to 500 ft.
# 901	U.S. Corps of Engineers	Layne Texas Co.	1953	230	6	191 230	CU	11	29	Sept. 1943	N	N	Screen from 199 to 224 ft. Well destroyed. 1
# 902	do.	do.	1943	241	6	202 241	CU	16	26.5	May 9, 1967	T,E	D	Screen from 210 to 235 ft.
903	U.S. Corps of Engineers Well 3	do.	1954	234	10	199 234	CU	16	23.2	do.	T,E	P	Screen from 202 to 224 ft. Test hole drilled to 240 ft. Reported yield 272 gpm. Pumping level 51 ft with 17 drawdown in 1954. 1
# 06-101	City of Freeport Well 3	Texas Water Wells	1952	251	20	251	CU	4	141.5 146.5	Jan. 12, 1953 Jan. 23, 1967	T,E	P	Screen from 172 to 182 and 212 to 242 ft. Test hole to 260 ft. Pumping 225 gpm, Sept. 1967. 1 3
102	City of Freeport Well 4	do.	1953	257	20	257	CU	6	117.0 146.0	Jan. 26, 1955 Jan. 23, 1967	T,E	P	Screen from 210 to 247 ft. Test hole to 267 ft. Reported yield 502 gpm, Jan. 1967. 1 3
# 06-103	City of Freeport Well 2	Layne Texas Co.	1945	255	10	255	CU	5	93.5 110.0	Feb. 19, 1946 Jan. 25, 1954	T,E	P	Screen from 224 to 246 ft. 1 3
104	City of Freeport Well 1	do.	1941	266	10	266	CU	4	84 132.0	Aug. 1941 Aug. 11, 1952	N	N	Screen from 225 to 266 ft. Well destroyed. 1 3
106	A. P. Green Refractories	L. Patterson	1966	272	6	272	CU	6	70 70.4	Aug. 1966 May 12, 1967	Sub,E	Ind	Screen from 240 to 272 ft. 1
# 205	J. E. Parnell	Tarrant Water Service	1956	200	2	200	CU	5	--	--	J,E	D	Supplies water for store.

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
Brazoria County													
BH-81-06-206	Freeport Marina Village	Chrysty Kuhlmann	1962	243	6	243	CU	5	--	--	Sub,E	P	Supplies water for motel and 16 homes.
# 207	do.	do.	1962	243	6	243	CU	5	--	--	Sub,E	P	Do.
# 209	Shell Oil Co.	Katy Drilling Co.	1965	279	16 10	250 279	CU	5	113 184.9	Oct. 17, 1965	T,E	Ind	Screen from 256 to 274 ft. Reported 195 ft pumping level at 167 gpm, Oct. 1965. <u>1/</u>
210	Whittens Restaurant	Patton	1955	275	3	275	CU	6	--	--	J,E	D	Screen from 265 to 275 ft. Supplies water for restaurant.
# 301	W. F. Doyle	Chrysty Kuhlmann	1958	300	4	300	C	6	68.0	Jan. 16, 1967	Sub,E	P	Screen from 245 to 300 ft.
# 303	B. G. Sandelin	Harvey Black	1966	199	4	199	CU	4	63.4	Apr. 14, 1967	Sub,E	P	Screen from 188 to 198 ft. Supplies water for marina.
# 402	City of Freeport Well 9	Layne Texas Co.	1952	249	10	249	CU	2	139.5 152	Aug. 11, 1952 Jan. 1957	T,E	P	Screen from 209 to 239 ft. <u>1/</u>
# 403	City of Freeport Well 7	do.	1942	249	12	249	CU	2	115.9 137.6	Aug. 22, 1949 Jan. 23, 1967	T,E	P	Screen from 206 to 234 ft. Reported yield 350 gpm, 1967. <u>1/ 3/</u>
# 405	City of Freeport Well 8	do.	1949	249	10	249	CU	5	100.2 136.6	Aug. 22, 1949 Jan. 23, 1967	T,E	P	Screen from 205 to 245 ft. Test hole to 250 ft. Reported yield 330 gpm, 1967. <u>1/ 3/</u>
406	City of Freeport Well 6	do.	1941	249	14	249	CU	5	58.5 140.9	June 27, 1941 Jan. 23, 1967	T,E	P	Screen from 214 to 234 ft. Reported yield 420 gpm, 1941. <u>1/ 3/</u>
407	Dow Chemical Co. Obs. Well 6	do.	1953	252	2	252	CU	2	111.4 151.1	Dec. 28, 1953 Sept. 28, 1967	N	N	Screen from 214 to 224 and 232 to 242 ft. Observation well. Test hole to 253 ft. <u>1/ 3/</u>
408	Dow Chemical Co. Obs. Well 7b	do.	1943	224	6	224	CU	7	114.2 146.7	Feb. 4, 1958 Oct. 31, 1967	Sub,E	S	Screen from 196 to 219 ft. Observation well. <u>1/ 3/</u>
# 413	Dow Chemical Co. Obs. Well 3	do.	1953	258	2	258	CU	5	111.2 137.5	Dec. 28, 1953 Oct. 31, 1967	N	N	Screen from 218 to 228 and 238 to 248 ft. Observation well. <u>3/</u>
418	Harbor Marine Terminal	L. Patterson	1967	209	4	209	CU	12	86	July 1967	J,E	Ind	Screen from 199 to 209 ft.
419	do.	do.	1962	393	4	393	CL	6	41	April 1962	N	N	Screen from 382 to 392 ft. <u>1/</u>
420	Hooker Chemical Corp.	Layne Texas Co.	1967	207	6	207	CU	3	125	April 1967	N	N	Test hole drilled to 876 ft. Destroyed.
# 421	Hooker Chemical Corp. Well 1	do.	1967	250	16 10	150 250	CU	3	43.3	May 4, 1967	T,E	Ind	Screen from 165 to 175 and 190 to 230 ft.

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS	
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT				
Brazoria County														
#BH-81-06-422	Hooker Chemical Corp. Well 2	Layne Texas Co.	1967	250	16 10	155 250	CU	3	121.3	May 4, 1967	T,E	Ind	Screen from 165 to 205 and 220 to 230 ft.	
501	Dow Chemical Co. Well 18	do.	1950	273	20	273	CU	5	116	Oct. 1950	T,E	Ind	Screen from 239 to 269 ft. Pumping level 168 ft at 430 gpm, Oct. 1950. <u>1/</u>	
502	Dow Chemical Co. Well 21	do.	1953	271	16	271	CU	5	135	Feb. 1953	T,E	Ind	Screen from 221 to 241 and 250 to 261 ft. Pumping level 205 ft at 357 gpm, Feb. 1953. Gravel wall underreamed. Test hole drilled to 273 ft. <u>1/</u>	
#	503	Dow Chemical Co.	do.	1949	1,179	14	1,179	CL	4	21.4	Sept. 9, 1967	T,E	Ind	Slotted from 973 to 1071 and 1081 to 1186 ft. Test hole to 1180 ft. <u>1/ 2/</u>
#	505	Dow Chemical Co. Obs. Well 2	do.	1953	250	2	250	CU	4	108.5 138.0	Dec. 28, 1953 Aug. 24, 1967	N	N	Screen from 210 to 220 and 230 to 240 ft. Observation well. Test hole to 251 ft. <u>1/ 3/</u>
#	506	Dow Chemical Co. Obs. Well 1	do.	1953	254	2	254	CU	8	113.2 129.5	Dec. 28, 1953 Oct. 31, 1967	N	N	Screen from 198 to 208 and 234 to 244 ft. Observation well. Test hole to 259 ft. <u>1/ 2/ 3/</u>
#	507	Dow Chemical Co. Well 1	do.	1940	241	12	241	CU	5	18	Mar. 1940	T,E	Ind	Screen from 206 to 238 ft. Pumping level 94 ft at 400 gpm, March 1940. <u>1/</u>
#	508	Dow Chemical Co. Well 2	do.	1940	265	12 6	213 265	CU	5	19 98 133.5	July 1940 June 1941 Sept. 6, 1967	T,E	Ind	Screen from 227 to 258 ft. Reported pumping level 68 ft at 350 gpm, July 1940. <u>1/</u>
#	509	Dow Chemical Co. Well 4	do.	1940	273	12 6	163 273	CU	5	26 104	Aug. 1940 June 1941	N	N	Screen from 232 to 263 ft. Pumping level 79 ft at 420 gpm, Aug. 1940. <u>1/</u>
	510	Dow Chemical Co. Well 5	do.	1940	251	12 6	208 251	CU	5	22 83	Aug. 1940 June 1941	T,E	Ind	Screen from 220 to 246 ft. Reported pumping level 67 ft at 420 gpm, Aug. 1940. Test hole to to 252 ft. <u>1/</u>
	512	W. F. Doyle Well 2	Chrysty Kuhlmann	1962	300	4	300	CU	6	87.0	May 5, 1967	Sub,E	P	
	513	C. L. Ray	Harvey Back	1962	251	2	251	CU	4	77	June 1962	J,E	D	Screen from 245 to 251 ft.
	514	Dow Chemical Co. Well 9	Layne Texas Co.	1941	1,127	12	1,127	CL	7	23.5	Oct. 4, 1967	T,E	N	Screen from 987 to 1,124 ft.

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS	
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT				
<u>Brazoria County</u>														
# BH-81-06-515	Dow Chemical Co. Well 10	Layne Texas Co.	1941	1,138	12 8	992 1,138	CL	5	15	Aug.	1941	N	N	Screen from 992 to 1,066 ft and 1,089 to 1,134 ft. Well destroyed. Reported pumping level 28 ft at 800 gpm, Aug. 1941. 1
516	Dow Chemical Co. Well 11	do.	1941	269	16	169	CU	5	94	Dec.	1941	N	N	Screen from 238 to 260 ft. Reported pumping level 148 ft at 335 gpm, Dec. 1941. Well destroyed in 1951. 1
517	Dow Chemical Co. Well 12	do.	1942	1,130	12 8	964 1,130	CL	5	23.6	Sept.	6, 1967	T,E	Ind	Screen from 1,007 to 1,126. Pump test made Oct. e, 1967. Pumping level 110.02 ft at 542 gpm, static level 24.1 ft. 1
519	Dow Chemical Co. Well 8	do.	1940	263	12	263	CU	5	33 115	Nov. June	1940 1941	N	N	Screen from 234 to 249 ft. Reported pumping level 121 ft at 210 gpm, Nov. 1940. 1
521	U.S. Army	L. Patterson	1942	257	4	257	CU	9	87	July	1942	N	N	Screen from 234 to 258 ft. 1
# 522	City of Quintana	--	1895	650	2	650	C	3	+ 9	Oct.	1936	N	N	
601	W. F. Doyle	Harvey Back	1953	300	6	300	CU	6	138.2	May	4, 1967	Sub,E	P	Screen from 250 to 300 ft.
# 602	C. H. Alexander	Gus Warneke	1892	1,050	10	1,050	C	4	--	--	--	N	N	Flowing in 1939.
# 701	J. P. Bryan	L. Patterson	1930	570	2	570	C	6	15	Oct.	1936	N	N	Well destroyed.
# 702	do.	do.	--	--	4	--	--	--	--	--	--	J,E	S	
703	do.	George Back	1965	400	4	400	CL	6	--	--	--	C,W	S	Screen from 390 to 400 ft.
704	do.	L. Patterson	1963	250	4	250	CU	6	87	July	1963	J,E	P	Screen from 228 to 248 ft.
# 12-201	T. J. Poole	do.	1917	600	2	600	C	5	+ 2	May	1939	C,W	S	Flowed 16 gpm, May 1939.
# 13-101	do.	Powell	1917	580	2	580	C	2	+ 3	May	1937	N	N	Flowed 2.5 gpm, May 1937.
# 202	J. L. Ducroz	--	1931	580	2	580	C	5	+ 2.6	do.	do.	N	N	Flowed 3.3 gpm, May 1937.
203	C. A. Ducroz	Buba Ducroz	1967	569	2	569	CL	5	4	May	1967	J,E	P	Screen from 559 to 569 ft.
<u>Galveston County</u>														
KH-65-40-402	City of Galveston Test well 1-4	Layne Texas Co.	1941	1,212	4	931	--	18	54.5 149.3	Dec. Nov.	29, 1941 15, 1967.	N	N	Observation well. Screen from 721 - 731 and 760 - 770 ft. 2

See footnotes at end of table.

Table 7.--Records of Wells and Springs in Brazoria County and Adjacent Areas--Continued

WELL NO.	OWNER	DRILLER	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNITS	ALTIITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			ABOVE (+) OR BELOW LAND SURFACE DATUM (FT)	DATE OF MEASUREMENT			
<u>Harris County</u>													
LJ-65-22-711	City of Houston Belfort Plant	Katy Drilling Co.	1967	1,225	24 14	-- 1,215	--	51	259.4	June 27, 1967	T,E	P	Screen from 515 - 605; 630 - 655; 720 - 755; 780 - 800; 850 - 860; 915 - 925; 1005 - 1045; 1105 - 1170; and 1180 - 1215 ft. Pumping level 346 ft at 2409 gpm with 87 ft drawdown, June 1967. <u>2/</u>
<u>Matagorda County</u>													
TA-65-50-702	Lacy W. Armour Well 3	Humble Oil & Refining Co.	1947	7,190	--	--	--	51	--	--	--	--	Oil Test <u>2/</u>

See Table 10 for chemical analyses of water from wells.

1/ See Table 8 for drillers' logs of wells and test holes.

2/ Electric logs in files of Texas Water Development Board or U.S. Geological Survey offices, Austin, Texas.

3/ See Table 9 for water levels in wells.

Table 8.—Drillers' Logs of Wells in Brazoria County

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-30-602			Well BH-65-30-701—Continued		
Owner: City of Pearland Driller: Texas Water Wells			Sand	42	194
Surface	12	12	Shale	1	195
Sand	12	24	Well BH-65-30-703		
Clay, red	34	58	Owner: Texas Pipeline Co. Driller: L. Patterson		
Sand	6	64	Surface	23	23
Clay	22	86	Sand	5	28
Sand	45	131	Shale	46	74
Shale, streaks of sand	210	341	Sand	5	79
Sand	9	350	Shale	21	100
Shale	13	363	Sand	30	130
Sand	27	390	Shale	35	165
Shale	41	431	Sand	38	203
Sand	201	632	Shale	59	262
Shale	3	365	Sand	6	268
Well BH-65-30-607			Shale	40	308
Owner: Gulf Coast and Santa Fe Railroad Driller: F. Standard			Sand	30	338
Soil	12	12	Shale	102	440
Sand, fine	8	20	Shale, sandy	23	463
Clay, yellow	60	80	Shale	130	593
Sand, fine	12	92	Sand	16	609
Clay, red	70	162	Shale	48	657
Clay, blue	40	202	Sand	24	681
Sand, fine	4	206	Shale	52	733
Clay, blue	130	336	Sand	25	758
Clay, joint	20	356	Shale	10	768
Sand, coarse	15	371	Sand	44	812
Clay, blue	90	461	Well BH-65-30-705		
Sand, artesian	46	507	Owner: Texaco Inc. Driller: L. Patterson		
Well BH-65-30-701			Surface	12	12
Owner: Texaco Inc. Driller: L. Patterson			Sand	18	30
Clay	15	15	Shale	20	50
Sand	10	25	Sand	9	59
Shale	59	84	Shale	34	93
Sand	12	96	Sand	19	112
Shale	56	152	Shale	34	146

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-30-705—Continued			Well BH-65-30-906		
Sand	43	189	Owner: Humble Oil and Refining Co. Driller: L. Patterson		
Shale	55	244	Surface sand clay	110	110
Sand and shale	12	256	Sand	10	120
Sand	12	268	Shale	90	210
Shale	27	295	Sand	30	240
Sand	18	313	Shale	65	305
Shale	26	339	Sand and shale	50	355
Sand	10	349	Shale	114	469
Shale	93	442	Sand, white medium coarse	46	515
Sand	8	450	Shale	1	516
Shale	122	572			
Sand	46	618			
Well BH-65-30-706			Well BH-65-31-402		
Owner: Texaco Inc. Driller: L. Patterson			Owner: City of Pearland Driller: Layne-Texas Co.		
			Surface, top soil	3	3
Clay	7	7	Clay	97	100
Sand	27	34	Sand	42	142
Shale	58	92	Clay	202	344
Sand	22	114	Clay	11	355
Shale	50	164	Sand	15	370
Sand	26	190	Clay	16	386
Shale	4	194	Clay, sandy	20	406
			Sand, shale and clay breaks	121	527
Well BH-65-30-803			Sand, clay and shale, streaks of	91	618
Owner: Texaco Inc. Driller: L. Patterson			Gravel, clay and shale	24	642
Derrick floor	2.5	2.5	Clay, sandy and shale streaks	64	706
Clay	187.5	190	Sand, (cut good)	46	752
Sand	16	216	Clay, gravel sand	23	775
Shale	187	393	Sand	5	780
Shale, sandy	23	416	Clay and sand streaks	11	791
Shale	46	462	Sand and shale (cut good)	28	819
Shale, sandy	22	484	Shale, clay and shale, sandy	12	831
Sand, fine grained	22	506			
Shale	33	539			
Sand, medium coarse grained	93	632			

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-31-701			Well BH-65-31-706—Continued		
Owner: Pan-American Petroleum Co. Driller: Texas Water Wells			Soil	2	5
Surface soil	2	2	Clay, red	35	40
Shale	18	20	Sand, red	5	45
Shale and sand streaks	75	95	Clay	46	91
Shale, hard and sand streaks	55	150	Sand	3	94
Shale and sand	80	230	Clay	5	99
Shale, sandy	20	250	Sand	12	111
Shale, streaks of	85	335	Clay	103	214
Shale, sandy	144	479	Sand, fine grained	37	251
Sand, hard	7	486	Clay	66	317
Shale	2	488	Sand	29	346
Sand and boulders	7	495	Gumbo	87	433
Sand	21	516	Sand	9	442
Shale, sandy	7	523	Gumbo	4	446
Sand, hard	127	650	Sand, good	114	560
Shale, streaks of	2	652			
Well BH-65-31-702			Well BH-65-36-904		
Owner: Pan American Petroleum Co. Driller: Coastal Drilling Co.			Owner: Texas Department of Corrections Driller: J. Siegert and Sons		
Shale, streaks of	220	220	Topsoil	3	3
Sand	30	250	Clay, red	7	10
Shale	230	480	Sand, red, mushy	10	20
Boulders, shale	20	500	Sand, red	26	46
Shale	40	540	Sand, mushy	9	55
Sand, water	90	630	Sand	7	62
			Sand	36	98
			Clay	22	120
			Rock	1	121
			Sand	7	128
			Clay and sand	18	146
Well BH-65-31-704			Well BH-65-36-905		
Owner: Humble Oil & Refining Co. Driller: L. Patterson			Owner: Texas Department of Corrections Driller: J. Siegert Sons		
Surface	66	66	Clay, red	31	31
Sand	10	76	Clay, blue	7	38
Shale	377	453	Clay, mushy	8	46
Sand	39	492	Sand, gravel	12	58
Shale	3	495	Sand, gravel and gravel	6	64
Well BH-65-31-706					
Owner: Cecil Brown Driller: Layne-Texas Co.					
Surface, rotary to	3	3			

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-36-905—Continued			Well BH-65-37-501—Continued		
Clay, red	40	104	Sand	29	144
Sand, gravel	31	135	Clay	217	361
Clay	1	136	Sand, coarse	65	426
Sand, fine	3	139	Clay	4	430
Clay	6	145	Sand	33	463
Well BH-65-36-906			Clay	43	506
Owner: State Department of Corrections Driller: J. Siegert & Sons			Sand, good	55	561
Clay, red	30	30	Clay	156	717
Clay, blue	10	40	Sand	22	739
Clay, mushy	12	52	Gumbo	72	811
Clay and sand	12	64	Sand	11	822
Clay, green	6	70	Gumbo	36	858
Sand and clay, little	20	90	Sand, good	46	904
Sand, coarse-grained	16	106	Gumbo	2	906
Clay	1	107	Well BH-65-37-703		
Sand, fine, and clay	17	124	Owner: Texas Department of Corrections Driller: Texas Water Wells		
No record	4	128	Surface clay	10	10
Well BH-65-37-401			Clay, sandy	40	50
Owner: Butler Drilling Co. Driller: B. & P. Drilling Co.			Clay	45	95
Surface	4	4	Sand	25	120
Clay	15	19	Shale, sandy	65	185
Sand	18	37	Shale	25	210
Clay	51	88	Sand	20	230
Sand	10	98	Shale, sandy	20	250
Clay	33	131	Shale	20	270
Sand	4	135	Sand	40	310
Clay	14	149	Shale	30	340
Sand	4	153	Sand	30	370
Clay, sandy	34	187	Shale	70	440
Sand	23	210	Sand	25	465
Clay	2	212	Shale, sandy	50	515
Well BH-65-37-501			Shale	15	530
Owner: C. Martin Driller: Layne-Texas Co.			Sand	60	590
Clay	115	115	Shale	12	602

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-37-801			Well BH-65-38-116—Continued		
Owner: Afroma Drilling Co. Driller: B. & P. Drilling Co.			Sand, fine-grained brown		
Surface soil	5	5	Shale	58	238
Clay	8	13	Shale	151	389
Sand	23	36	Sand, fine-grained	26	415
Clay	63	99	Shale	31	446
Sand	18	117	Sand, fine-grained	14	460
Sand, hard	1	118	Shale	190	650
Sand	16	134	Sand, fine-grained	25	675
Well BH-65-38-115			Shale	20	695
Owner: Texaco Inc. Driller: —			Sand, fine-grained	18	713
Derrick floor	9	9	Shale	21	734
Clay	18	27	Sand, medium coarse grained	40	774
Sand	12	39	Shale	2	776
Clay	70	109	Well BH-65-38-301		
Sand	15	124	Owner: Humble Oil & Refining Co. Driller: L. Patterson		
Clay	80	204	Clay	83	83
Sand and boulders	71	275	Shale	21	104
Clay	90	365	Shale, sandy	108	212
Sand and boulders	70	435	Shale	98	310
Clay and sand	165	600	Sand	62	372
Sand and boulders	70	670	Shale	38	410
Clay	30	700	Well BH-65-38-402		
Sand and boulders	99	799	Owner: H. N. G. Petrochemicals Driller: Layne-Texas Co.		
Sand and clay	96	895	Surface soil	2	2
Sand and boulders	29	924	Clay	12	14
Sand and clay	70	994	Sand and clay, sandy	44	58
Sand and boulders	130	1,124	Clay	9	67
Gumbo	105	1,229	Sand	12	79
Well BH-65-38-116			Clay and clay, sandy	50	129
Owner: Texaco Inc. Driller: L. Patterson			Sand, broken	117	246
Surface material	20	20	Clay, sandy and clay	22	268
Shale	65	85	Shale, hard	99	367
Sand and shale	22	107	Shale, sand and streaks of sand	9	376
Shale, sticky	73	180	Shale	12	388

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-38-402—Continued			Well BH-65-38-403—Continued		
Clay	10	398	Clay and clay, sandy	32	240
Sand	25	423	Sand, broken	27	267
Shale	18	441	Shale, sandy and sand	17	284
Sand	7	448	Shale and shale, sandy	44	328
Shale	14	462	Clay and clay, sandy	60	388
Sand, shale	9	471	Shale, sandy	12	400
Sand	11	482	Sand	23	423
Shale, hard sandy	57	539	Shale	18	441
Shale, hard	13	552	Sand	12	453
Shale, sandy	5	557	Shale and shale, sandy	86	539
Sand, broken	23	580	Shale	15	554
Shale and shale, sandy	27	607	Shale, sandy	6	560
Sand, broken	19	626	Sand, broken	18	578
Shale, sandy and streaks of sand	28	654	Shale, hard sandy	20	598
Sand	23	677	Shale, hard	30	628
Shale, sandy and shale	22	699	Shale, sandy	18	646
Shale, sandy and streaks of sand	12	711	Sand, broken	18	664
Sand and shale, sandy	13	724	Shale, hard and shale, sandy	51	715
Sand, broken	8	732	Sand	13	728
Shale	96	828	Shale and shale, sandy	95	823
Sand, broken	19	847	Sand	16	839
Sand, shale	16	863	Shale and shale, sandy	60	899
Sand (cut hard)	32	895	Sand and shale, sandy	40	939
Shale, sticky	15	910	Shale, sandy	13	952
No record	1	911	Sand and shale, sandy	20	972
			Shale, sandy	10	982
			Sand, cut good	28	1,010
			Shale, sandy	4	1,014
			Sand, cut good	23	1,037
			Shale, hard	14	1,051
			Shale, sandy shale	18	1,069
			Shale, hard	8	1,077
			Sand	20	1,097
			Shale	9	1,106
			Sand	52	1,158
			Shale	4	1,162
			No record	2	1,164
Well BH-65-38-403					
Owner: H. N. G. Petrochemicals Driller: Layne-Texas Co.					
Surface clay	12	12			
Sand	6	18			
Clay	12	30			
Sand	16	46			
Sand and gravel	31	77			
Shale	49	126			
Shale, sandy and shale	50	176			
Shale, sandy	32	208			

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-38-601			Well BH-65-38-602—Continued		
Owner: City of Alvin, Well 3 Driller: Layne-Texas Co.			Clay	61	100
			Sand	5	105
Surface soil and clay	8	8	Clay	34	139
Sand	26	34	Sand	17	156
Clay	80	114	Clay	17	173
Clay, tough	30	144	Sand	9	182
Sand	10	154	Clay	372	554
Clay	8	162	Sand, with small clay strips in top part of sand	101	655
Sand	17	179	Clay	7	662
Clay	23	202	Sand	26	688
Clay, sandy	25	227	Clay	9	697
Clay, tough	32	259	Sand	11	708
Clay, sandy	10	269	Clay	25	733
Clay, blue	28	297			
Sand	10	307	Well BH-65-38-603		
Clay, sandy	9	316	Owner: City of Alvin Driller: Katy Drilling Co.		
Clay	66	382	Topsoil clay	17	17
Sand	15	397	Sand and clay strips	12	29
Clay	25	422	Clay	52	81
Clay, sandy	15	437	Sand	18	99
Clay, tough	15	452	Clay	8	107
Clay, sandy and sand	10	462	Sand	7	114
Clay	10	472	Clay	26	140
Clay, sandy	15	487	Sand	10	150
Sand	10	497	Clay	16	166
Clay, tough	18	515	Sand	12	178
Clay	22	537	Clay	481	659
Clay, sandy	10	547	Sand	55	714
Sand (good)	120	667	Clay	56	770
Clay, soft	20	687	Sand and clay	20	790
Clay, sandy	35	722			
Clay, tough	50	772	Well BH-65-38-604		
Clay, soft, sandy	28	800	Owner: Humble Oil & Refining Co. Driller: L. Patterson		
Well BH-65-38-602			Surface material	24	24
Owner: City of Alvin, Well 4 Driller: Katy Drilling Co.			Sand	21	45
Surface	17	17	Shale	77	122
Sand	22	39	Sand	23	145

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-38-604—Continued			Well BH-65-39-402—Continued		
Shale	157	302	Clay	46	135
Sand	10	312	Sand	25	160
Shale	10	322	Clay	7	167
Sand, fine-grained	22	344	Sand	23	190
Shale	284	628	Clay	28	218
Sand	38	666	Sand	17	235
			Clay	38	273
			Shale	30	303
Well BH-65-39-107			Shale and sand	23	326
			Clay, tough	64	390
Owner: Pan American Petroleum Co. Driller: Layne-Texas Co.			Sand and shale	16	406
Black soil	2	2	Clay	13	419
Clay blue	13	15	Shale	22	441
Clay, red	78	93	Clay, tough	149	590
Sand, fine	4	97	Sand	125	715
Clay	11	108	Clay	7	722
Shale, sandy	9	117			
Sand	12	129	Well BH-65-43-401		
Clay	34	163	Owner: Mrs. Will Schendel Driller: Katy Drilling Co.		
Shale and shale, sandy	107	270	Topsoil	35	35
Clay	23	293	Sand	29	64
Shale	45	338	Clay	15	79
Sand	12	350	Sand	9	88
Shale	66	416	Clay	25	113
Shale and sand, layers of	26	442	Sand	9	122
Shale	11	453	Clay	96	218
Sand	10	463	Clay with sand	76	294
Shale	9	472	Sand	28	322
Sand	46	518	Clay	133	455
Shale	4	522	Sand	20	475
Sand	16	538	Clay	9	484
			Sand	6	490
Well BH-65-39-402			Shale	92	582
			Sand	16	598
Owner: City of Alvin, Well 2 Driller: Layne-Texas Co.			Clay	13	611
Soil	4	4	Sand	12	623
Clay	16	20	Clay	74	697
Sand and muck	49	69			
Clay	6	75			
Sand	14	89			

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-43-401—Continued			Well BH-65-43-701—Continued		
Shale, sandy	51	748	Clay	14	326
Shale	7	755	Sand	12	338
Sand	13	768	Clay	18	356
Shale	7	775	Sand, good	39	395
Sand	55	830	Sand, fine	6	401
Shale	9	839	Sand, good	26	427
Sand	95	934	Sand, broken	6	433
Shale	8	942	Clay	3	436
Sand	28	970	Sand, soft	23	459
			Sand, good	18	477
			Soft formation	7	484
			Sandy formation, soft	30	514
			Sandy formation, soft	8	522
			Sand, good	24	546
			Soft formation	17	563
			Soft formation	8	571
			Sand, good	66	637
			Clay	9	646
Well BH-65-43-701			Well BH-65-43-705		
Owner: Brazoria County WCID 1 Driller: Texas Water Wells			Owner: Coastal States Pipeline Dep. Driller: Ben Weinbrenner		
Topsoil	8	8			
Clay	31	39	Grass roots	4	4
Sand, fine	2	41	Clay, red	13	17
Clay	21	62	Sand, red	16	33
Sand, fine	6	68	Chalk	46	79
Clay	16	84	Rock, sand	4	83
Sand, broken	3	87	Sand, white pack	9	92
Sand, broken	21	108	Sand, water	10	102
Sand	9	117			
Sand, broken	11	128			
Sand	5	133			
Clay	23	156			
Clay	16	172			
Sand	4	176			
Clay	21	197			
Clay	2	199			
Sand	18	217			
Sand	10	227			
Clay	6	233			
Sand	18	251	Topsoil	17	17
Sand	5	256	Sand	3	20
Clay	16	272	Clay	115	135
Shale, soft blue	20	292	Sand	24	159
Clay	2	294	Clay	71	230
Sand	18	312			

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-43-801—Continued			Well BH-65-43-802—Continued		
Sand	31	261	Shale	30	792
Clay	19	280	Rock	1	793
Rock	11	291	Sand	27	820
Clay	19	310	Rock	1	821
Sand	94	404	Shale	16	837
Clay	48	452	Sand	92	929
Sand	26	478			
Clay	99	577	Well BH-65-43-901		
Sand	58	635	Owner: Todd Brothers Driller: A. H. Justman		
Clay	49	684	Topsoil	10	10
Sand	17	701	Sand	36	46
Shale	48	749	Clay	12	58
Rock and sand	12	761	Sand	10	68
Shale	28	789	Clay	11	79
Sand	36	825	Sand	88	167
			Clay	51	218
			Sand	56	274
			Clay	48	322
			Sand	30	352
			Sand	68	420
			Sand	20	440
			Clay	142	582
			Sand	28	610
			Clay	12	622
			Shale, sandy	22	644
			Clay	24	668
			Shale, sandy	40	708
			Clay	20	728
			Sand	50	778
			Shale	15	793
			Sand	44	837
			Well BH-65-43-902		
			Owner: J. G. Phillips, Jr. Driller: C. C. Padon		
			Clay	60	60
			Sand	20	80
			Clay	20	100
			Sand	40	140
Well BH-65-43-802					
Owner: M. R. Powell, Jr. Driller: Katy Drilling Co.					
Topsoil	80	80			
Clay	18	98			
Sand	25	123			
Clay	13	136			
Sand	25	161			
Clay	61	222			
Sand	43	265			
Clay	41	306			
Sand	21	327			
Clay	12	339			
Sand	19	358			
Clay	89	447			
Sand	34	481			
Shale	98	579			
Sand	55	634			
Shale	56	690			
Sand	15	705			
Shale	39	744			
Sand	18	762			

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-44-202			Well BH-65-45-202—Continued		
			Owner: W. E. Schweinte Driller: C. C. Padon	Clay	15 116
Clay	70	70		Sand	5 121
Sand and gravel	50	120		Rock, hard	4 125
				Clay	14 139
				Sand	5 144
Well BH-65-44-501				Sand	21 165
			Owner: Shell Oil Co. Driller: L. Patterson	Clay	37 202
Surface	20	20		Sandrock	23 225
Shale	48	68		Sand and clay	8 233
Gravel	12	80		Clay	36 269
Shale	20	100		Sand and rock, strips of	21 290
Sand	20	120		Clay and sand strips	17 307
Sand and shale	34	154		Sand	18 325
Sand	22	176		Sand and rock, strips of	25 350
Shale	21	197		Clay and rock	28 378
Sand	38	235		Sand	64 442
Shale	49	284		Clay with sand streaks	2 444
Sand	20	304		Clay	116 560
Shale	109	413		No record	486 1,046
Sand	47	460			
Well BH-65-45-104			Well BH-65-45-501		
			Owner: L. M. Pearce Driller: B. & P. Drilling Co.	Owner: N. E. Selstad Driller: Layne-Texas Co.	
Surface soil	4	4		Surface soil	22 22
Clay	18	22		Clay, red	30 52
Sand	13	35		Sand	10 62
Clay	22	57		Clay	18 80
Sand	24	81		Sand	15 95
Clay	10	91		Clay	25 120
Sand	65	156		Sand	22 142
				Clay	89 231
Well BH-65-45-202				Sand, good	57 288
			Owner: Bill Ramins Lake Driller: Katy Drilling Co.	Clay	60 348
Clay	15	15		Sand, hard layers	25 373
Sand	15	30		Clay	11 384
Clay	52	82		Sand	26 410
Sand	19	101		Gumbo	52 462

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-45-501—Continued			Well BH-65-45-502—Continued		
Sand	68	530	Well deepened in 1928. Rotary to bottom of 10-inch well.	1	529
Clay	50	580	Clay	34	563
Sand	10	590	Sand	35	598
Clay	52	642	Clay	6	604
Sand and boulders	6	648	Sand	14	618
Sand and clay	15	663	Shale	19	637
Clay	34	697	Gumbo	58	695
Sand	27	724	Sand	8	703
Gumbo	29	753	Gumbo	58	761
Sand	35	788	Sand	23	784
Clay	22	810	Gumbo	22	806
Sand	30	840	Sand	36	842
Shale, sandy	30	870	Gumbo	22	864
Sand	80	950	Sand	19	883
Clay	6	956	Gumbo	3	886
Sand	20	976	Sand	33	919
Shale, blue	40	1,016	Gumbo	4	923
Sand	18	1,034			
Gumbo, blue	12	1,046			
Sand	122	1,168			
			Well BH-65-45-504		
			Owner: Dr. B. W. Turner Driller: L. Patterson		
			Surface material	22	22
			Shale	23	45
			Sand	104	149
			Shale	16	165
			Sand	16	181
			Shale	127	308
			Sand	13	321
			Shale	77	398
			Sand	16	414
			Shale	74	488
			Sand	26	514
			Shale	118	632
			Sand	18	650
			Shale	115	765
			Sand	3	768
			Shale	37	805
Well BH-65-45-502					
Owner: Dr. B. W. Turner Driller: Layne-Texas Co.					
Rotary to ground	4	4			
Clay	25	29			
Sand	2	31			
Clay	12	43			
Sand	74	117			
Clay	122	239			
Sand	77	316			
Clay	11	327			
Sand, gray water	113	440			
Gumbo	16	456			
Sand, coarse	30	486			
Gumbo	12	498			
Sand	14	512			
Gumbo	16	528			

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-45-504—Continued			Well BH-65-45-801—Continued		
Sand	45	850	Shale	67	105
Shale	28	878	Sand	20	125
Sand	40	918	Shale	18	143
Well BH-65-45-701			Sand	38	181
Owner: Chenango Plantation Driller: L. Patterson			Shale	2	183
Surface sand	25	25	Sand	13	196
Sand	10	35	Shale	1	197
Shale	25	60	Shale	2	199
Sand	40	100	Well BH-65-45-803		
Shale	37	137	Owner: Texas Pipeline Co. Driller: L. Patterson		
Sand	65	202	Surface sand	24	24
Shale	2	204	Sand	16	40
Well BH-65-45-702			Shale	28	68
Owner: Chenango Plantation Driller: L. Patterson			Sand	43	111
Surface clay	26	26	Sand and shale	21	132
Shale	21	47	Sand	44	176
Sand	21	68	Shale	51	227
Shale	1	69	Sand	12	239
Sand and gravel	34	103	Shale	226	465
Shale	20	123	Sand	55	520
Sand	55	178	Well BH-65-46-201		
Shale	1	179	Owner: W. A. Thomas Driller: B. & P. Drilling Co.		
Well BH-65-45-703			Surface soil	2	2
Owner: Patterson, Smith & Turner Driller: L. Patterson			Clay	14	16
Surface	24	24	Sand	16	32
Shale	50	74	Clay	15	47
Sand	41	115	Sand	7	54
Shale	17	132	Clay, sandy	17	71
Sand and gravel	46	178	Sand and clay	14	85
Well BH-65-45-801			Clay	141	226
Owner: L. O. Harris Driller: L. Patterson			Clay, sandy	24	250
Surface	25	25	Clay	8	258
Sand	13	38	Clay, sandy	5	263
			Clay	7	270
			Sand	2	272

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-46-201—Continued			Well BH-65-46-502—Continued		
Clay	53	325	Shale	5	215
Sand	6	331	Sand	70	285
Clay	81	412	Shale	25	310
Sand and lime	7	419	Sand	135	445
Clay	11	430	Shale	5	450
Sand and lime	4	434	Sand	15	465
Clay, sandy	81	515	Shale	15	480
Sand	11	526	Sand	20	500
Clay	65	591	Shale, sticky	25	525
Sand	9	600	Sand	10	535
Clay	114	714	Shale	10	545
			Sand	20	565
			Shale	5	570
			Sand	10	580
			Shale, sticky	50	630
			Sand	70	700
Well BH-65-46-301			Well BH-65-46-702		
Owner: Humble Oil & Refining Co. Driller: L. Patterson			Owner: Humble Oil & Refining Co. Driller: L. Patterson		
Surface material	25	25	Surface material	23	23
Sand	10	35	Sand	23	46
Shale	73	108	Shale	110	156
Sand	6	114	Sand	25	181
Shale	7	121	Shale	100	281
Sand	5	126	Sand	9	290
Shale	34	160	Shale	43	333
Sand	3	163	Sand and shale	23	356
Shale	51	214	Shale	54	410
Sand	8	222	Sand	14	424
Shale	32	254	Shale	65	489
Sand	9	263	Sand	25	514
Shale	58	321			
Sand	9	330			
Shale	111	441			
Sand	32	473			
Well BH-65-46-502			Well BH-65-46-703		
Owner: W. G. Simpson Driller: American Water Co.			Owner: Humble Oil & Refining Co. Driller: L. Patterson		
Surface material	10	10	Surface material	25	25
Sand and shale	175	185	Clay	35	60
Shale, sticky	20	205	Sand	32	92
Sand	5	210			

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-46-703—Continued			Well BH-65-46-803—Continued		
Shale	6	98	Shale	28	140
Sand	15	113	Sand	22	162
Shale	7	120	Shale	64	226
Sand	30	150	Shale, sandy	24	250
Shale	33	183	Shale	24	274
Sand	15	198	Sand	35	309
Shale	72	270			
Sand	42	312			
Well BH-65-46-704			Well BH-65-46-805		
Owner: Humble Oil & Refining Co. Driller: L. Patterson			Owner: Humble Oil & Refining Co. Driller: L. Patterson		
Surface	24	24	Surface material	23	23
Sand and shale	21	45	Shale	67	90
Shale	42	87	Sand	8	98
Sand	15	102	Shale	103	201
Shale	94	196	Sand	8	209
Sand and shale	20	216	Shale	202	411
Shale	56	272	Sand	30	441
Sand	43	315			
Well BH-65-46-801			Well BH-65-46-806		
Owner: Humble Oil & Refining Co. Driller: L. Patterson			Owner: Humble Oil & Refining Co. Driller: L. Patterson		
Clay	17	17	Surface material	24	24
Sand	3	20	Shale	44	68
Shale	45	65	Sand	43	111
Sand	63	128	Shale	89	200
Shale	99	227	Sand and shale	109	309
Shale, sandy	48	275	Sand	46	355
Shale	11	286			
Sand	22	308	Well BH-65-47-101		
Shale	3	311	Owner: Phillips Petroleum Co. Well 2 Driller: Layne-Texas Co.		
			Clay	52	52
			Sand breaks	22	74
			Shale	9	83
			Sand, shale and shale breaks	28	111
			Shale	79	190
			Shale and shale sandy	150	340
			Sand and shale, layers of	47	387
			Shale	58	445
			Sand, fine	21	466
Well BH-65-46-803					
Owner: Humble Oil & Refining Co. Driller: L. Patterson					
Surface material	23	23			
Shale	22	45			
Sand	67	112			

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-47-101—Continued			Well BH-65-47-105—Continued		
Shale	26	492	Sand and clay layers	45	75
Sand, hard fine	50	542	Clay, tough	16	91
Shale and shale, sandy	69	611	Sand, hard and shale, layers of	31	122
Shale, sandy	20	631	Clay, sandy	16	138
Shale	32	663	Clay, tough	45	183
Sand, fine	15	678	Sand and clay, layers	15	198
Shale	25	703	Clay	15	213
Shale, sandy	13	716	Sand and clay, layers of	10	223
Shale	17	733	Clay, tough	8	231
Sand, hard fine	71	804	Clay, sandy	11	242
Sand and shale, breaks of	36	840	Sand and clay layers	26	268
Shale	3	843	Clay	54	322
Well BH-65-47-102			Sand, fine-grained muddy	22	344
Owner: Phillips Petroleum Co. Well 1 Driller: Layne-Texas Co.			Sand and clay layers	149	493
Clay, red	50	50	Shale, hard blue	15	508
Sand	25	75	Shale, sandy	10	518
Shale	19	94	Shale, tough blue	100	618
Sand and boulders	49	143	Sand, fine-grained	30	648
Clay, red and clay sandy	98	241	Shale, tough blue	65	713
Clay, sandy and streaks of clay	84	325	Sand	12	725
Clay	19	344	Shale, hard	15	740
Shale, brown sandy and streaks of sand	45	389	Sand	9	749
Shale	69	458	Shale	3	752
Sand, fine and shale, layers of	77	535	Sand	33	785
Shale	63	598	Shale, tough	17	802
Shale	88	686	Shale and sand streaks	12	814
Shale, sandy	14	700	Shale, brittle	76	890
Shale	7	707	Sand	16	906
Shale and shale, streaks of sandy	27	734	Shale, brittle	8	914
Sand, hard fine	46	780	Shale, sandy	16	930
Shale	20	800	Shale	10	940
Well BH-65-47-105			Sand	19	959
Owner: Clyde F. Herring Driller: Layne-Texas Co.			Shale	57	1,016
Surface soil	7	7	Sand, fine-grained gray	22	1,038
Clay, red	23	30	Shale, loose and sand, layers of fine-grained	70	1,108
			Sand	5	1,113

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-47-105—Continued			Well BH-65-47-904—Continued		
Shale	11	1,124	Sand and shale	22	46
Sand	6	1,130	Shale	43	89
Shale	6	1,136	Sand	23	112
Sand	42	1,178	Shale	196	308
Shale	7	1,185	Sand and shale	22	330
			Shale	150	480
			Sand	77	557
Well BH-65-47-204			Well BH-65-50-101		
Owner: Texaco Inc. Driller: L. Patterson			Owner: J. T. Looney Driller: Katy Drilling Co.		
Surface material	25	25	Surface clay	22	22
Shale	66	91	Sand	2	24
Sand and shale	132	223	Clay	65	89
Shale	155	378	Sand	45	134
Sand and shale	21	399	Clay	36	170
Shale	65	464	Shale, sandy	26	196
Sand and shale	22	486	Sand	24	220
Sand	22	508	Clay with sand breaks	39	259
Sand and shale	21	529	Sand	36	295
Shale	86	615	Clay	27	322
Sand	69	684	Sand	15	337
			Clay	52	389
Well BH-65-47-702			Well BH-65-50-102		
Owner: Monsanto Chemical Co. Driller: Layne-Texas Co.			Owner: J. T. Looney Driller: Katy Drilling Co.		
Surface soil	2	2	Sand	31	420
Clay	16	18	Sand with clay strips	15	435
Sand, broken gray	54	72	Sand	21	456
Clay	11	83	Clay	40	496
Sand, coarse	37	120	Sand and clay, small strip of	31	527
Shale and shale, sandy	139	259	Clay	6	533
Sand and shale breaks	97	356	Sand	42	575
Shale and shale, sandy	164	520	Clay	27	602
Shale and shale, sandy hard streaks	227	747	Sand	50	652
Sand and shale streaks	72	820	Clay	17	669
Sand and shale streaks	10	830	Sand, rocky	151	820
Sand	114	944	Clay	16	836
Well BH-65-47-904			Well BH-65-50-102		
Owner: Humble Oil & Refining Co. Driller: L. Patterson			Owner: J. T. Looney Driller: Katy Drilling Co.		
Surface sand and clay	24	24	Surface and clay	26	26

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-50-102—Continued			Well BH-65-50-501—Continued		
Sand	8	34	Sand	47	240
Clay	39	73	Clay and sand streaks	69	309
Sand with clay streaks	55	128	Clay, sandy	17	326
Clay	32	160	Sand	21	347
Sand with clay strips	10	170	Shale, sandy, and shale, lime and gravel	120	467
Clay	99	269	Sand	25	492
Sand	23	292	Shale	5	497
Clay	56	348	Shale, sticky	13	510
Sand	24	372	Shale, sandy	8	518
Clay	11	383	Sand, cut good	33	551
Sand	76	459	Shale, hard sandy	5	556
Clay	5	464	Shale, sandy	11	567
Sand	5	469	Sand, cut good	34	601
Clay	13	482	Sand with shale layers	36	637
Sand with clay strips	15	497	Sand	13	650
Clay	11	508	Shale, hard	18	668
Sand	16	524	Sand, cut good	41	709
Clay	26	550	Shale, sandy	11	720
Sand (rocky)	69	619	Sand and shale	13	733
Clay	12	631	Sand, cut good	37	770
Sand, rocky	24	655			
Clay	71	726	Well BH-65-50-502		
Sand, rocky	18	744	Owner: Humble Oil & Refining Co. Driller: Layne-Texas Co.		
Shale, sandy	17	761	Surface soil	6	6
Sand, rocky	37	798	Clay	12	18
Shale with sand breaks	6	804	Sand	16	34
Sand, rocky	18	822	Clay, sandy	10	44
Shale, hard	15	837	Clay	45	89
			Sand and gravel	58	147
Well BH-65-50-501			Clay, sticky	10	157
Owner: Humble Oil & Refining Co. Driller: Layne-Texas Co.			Clay and clay, sandy	39	196
Topsoil	4	4	Sand and gravel	47	243
Clay, sandy	10	14	Shale and shale, hard sandy	37	280
Sand	32	46	Sand	12	292
Clay and sand streaks	57	103	Shale, sandy with hard layers	69	361
Sand and gravel, fine	52	155	Sand	8	369
Clay, red	38	193			

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-50-806			Well BH-65-51-302—Continued		
Owner: Anthony Duke Driller: Leonard Mickelson			Clay	11	567
Soil and clay	54	54	Sand, rocky	27	594
Sand and gravel	86	140	Rock, hard	4	598
Clay	30	170	Shale, hard with small sand breaks	88	686
Gravel	12	182	Sand, rocky	99	785
Clay	15	197	Clay, sandy	32	817
Sand	9	206	Clay	29	846
Clay	5	211	Sand and rock	44	890
No record	2	213	Clay	12	902
Well BH-65-50-807			Well BH-65-51-603		
Owner: Elmo Duke Driller: Leonard Mickelson			Owner: Texaco, Inc. Driller: —		
Soil and clay	65	65	Sand	17	17
Sand	4	69	Sand and clay	69	86
Gravel	40	109	Clay	20	106
Clay	5	114	Sand	3	109
Gravel	18	132	Gumbo	39	148
Clay	24	156	Sand	8	156
Gravel	2	158	Gumbo	144	300
Clay	13	171	Water sand	23	323
Gravel and clay	7	178	Gumbo	19	342
Clay	17	195	Sand, fine-grained	16	358
Gravel	10	205	Gumbo	52	410
Clay	4	209	Sand, fine-grained	23	433
Well BH-65-51-302			Gumbo	59	492
Owner: C. & J. Gless Driller: Katy Drilling Co.			Sand	22	514
Surface and clay	30	30	Gumbo	17	531
Sand and rock	74	104	Water sand	44	575
Clay	123	227	Gumbo	2	577
Sand	20	247	Well BH-65-51-801		
Clay	16	263	Owner: Texas Pipeline Co. Driller: L. Patterson		
Sand	15	278	Soil	24	24
Clay with sand streaks	42	320	Shale	48	72
Clay	84	404	Sand	59	131
Sand	152	556	Shale	149	280

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-51-801—Continued			Well BH-65-51-902		
Sand	38	318	Owner: City of West Columbia Driller: A. E. Fawcett		
Shale	61	379	Limerock and clay	75	75
Sand, white	13	392	Shale, sticky	35	110
Shale	1	393	Sand and gravel	47	157
Well BH-65-51-901			Shale, sticky with sand streaks	149	306
Owner: City of West Columbia Driller: Layne-Texas Co.			Shale, sticky	16	322
Soil	1	1	Sand and limerock	36	358
Clay, red	6	7	Shale, hard and lime	72	430
Sand, red and brown	43	50	Sand and sandrock	40	470
Sand, gray	10	60	Shale, hard	5	475
Clay, streaks of sand	16	76	Sand	20	495
Sand, coarse-grained and gravel, fine	45	121	Shale	21	516
Clay, streaks and sand	22	143	Sand, hard	10	526
Clay	24	167	Shale, hard	2	528
Sand	10	177	Sand	45	573
Clay with streaks of sand	12	189	Lime, hard and shale	27	600
Clay, sand breaks	133	322	Shale, hard and lime	28	628
Rock	1	323	Sand	36	664
Clay	9	332	Shale	10	674
Sand	20	352	Sand	35	709
Sand, shale breaks	34	386	Shale, sticky sandy	79	788
Sand, fine-grained with shale streaks	74	460	Sand	17	805
Shale, blue	21	481	Sand, shale	20	825
Shale, sandy	13	494	Well BH-65-51-903		
Sand, fine-grained white	22	516	Owner: City of West Columbia Driller: Layne-Texas Co.		
Shale	18	534	Surface material	27	27
Sand with shale streaks	6	540	Shale	37	64
Sand, coarse-grained	8	548	Sand	86	150
Shale	23	571	Shale	20	170
Sand and shale breaks	40	611	Sand	10	180
Shale	13	624	Shale	146	326
Sand, good	25	649	Sand	30	356
Shale, tough	10	659	Sand and shale	9	365
			Shale	25	390

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-51-903—Continued			Well BH-65-52-105—Continued		
Shale, sandy	27	417	Clay	57	78
Sand	5	422	Sand	9	87
Shale, sandy	9	431	Clay	2	89
Sand	16	447	Sand, fine	12	101
Shale	48	495	Clay	16	117
Sand	30	525	Sand	18	135
Shale	8	533	Clay, sandy	4	139
Sand	15	548	Sand	13	152
Shale	3	551			
Sand	5	556			
Shale	19	575			
Sand	40	615			
Well BH-65-51-907			Well BH-65-52-201		
Owner: Texaco Inc. Driller: L. Patterson			Owner: Henry Black Driller: Katy Drilling Co.		
Surface soil	25	25	Topsoil and clay	73	73
Shale	36	61	Sand	125	198
Sand	8	69	Clay	54	252
Shale	25	94	Sand, rocky	18	270
Sand	28	122	Clay	75	345
Shale	94	216	Sand and rock	55	400
Sand	77	293	Clay	105	505
Shale	32	325	Sand, rocky	18	523
Sand	28	353	Clay	97	620
Shale	12	365	Sand, and shale strips	15	635
Sand	16	381	Sand	39	674
Shale	9	390	Shale	8	682
Sand	12	402	Sand	63	745
Shale	24	426			
Sand	17	443			
Shale	37	480			
Sand	44	524			
Well BH-65-52-105			Well BH-65-52-202		
Owner: Brown and Root Driller: B. & P. Drilling Co.			Owner: Brown & Root Driller: L. Patterson		
Surface soil	4	4	Soil, silt and clay	65	65
Clay, sand	17	21	Sand and gravel	41	106
			Shale	23	129
			Sand	24	153
			Shale	146	299
			Sand	21	320
			Shale	37	357
			Sand	5	362
			Shale	248	610
			Sand	13	623

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-52-202—Continued			Well BH-65-52-204—Continued		
Shale	25	648	Clay, heavy red	48	216
Sand	7	655	Clay, light blue	2	218
Shale	6	661	Clay, red and gravel, fine	9	227
Sand	27	688	Clay, light blue	21	248
Shale	0.5	688.5	Clay, gray	19	267
Sand	53.5	742	Sand	27	294
Shale	56	798	Clay, light blue	6	300
Sand	44	842			
Shale	7	849	Well BH-65-52-205		
Sand	9	858	Owner: Dow Chemical Co. Driller: —		
Shale	9	867	Silt	19	19
Sand	19	886	Sand	43	62
Shale	16	902	Gravel, fine	30	92
Sand	31	933	Sand	25	117
No record	1	934	Gravel, fine	4	121
			Sand	29	150
Well BH-65-52-204			Clay, heavy red	14	164
Owner: Dow Chemical Co. Driller: —			Sand	12	176
Silt	2	2	Clay, heavy red	23	199
Gumbo, black	2	4	Silt	8	207
Silt	4	8	Clay, heavy red	3	210
Clay, sandy	1	9	Clay, light blue	18	228
Gumbo, black	4	13	Sand	9	237
Silt	2	15	Clay, heavy red	27	264
Clay, sandy	4	19	Clay, light blue	19	283
Clay, heavy red	9	28	Silt	17	300
Shale	2	30			
Clay, unctuous	3	33	Well BH-65-52-302		
Shale	6	39	Owner: Dow Chemical Co. Driller: —		
Clay, unctuous	4	43	Gumbo, black	3	3
Shale	14	57	Silt	1	4
Clay, heavy red	8	65	Clay, heavy red	5	9
Shale	3	68	Clay, red unctuous	11	20
Clay, heavy red	4	72	Clay, heavy red	21	41
Sand	77	149	Clay, unctuous red	4	45
Clay, sandy	6	155	Clay, heavy red	6	51
Sand	13	168	Clay, unctuous red	5	56

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-52-302—Continued			Well BH-65-52-801		
Clay, heavy red	5	61			
Sand	29	90			
Clay, unctuous red	4	94	Surface soil	46	46
Clay, red and gravel, fine	3	97	Sand	38	84
Sand	3	100	Shale	24	108
Clay, sandy	7	107	Sand	18	126
Silt	2	109	Shale	14	140
Shale	1	110	Sand	48	188
Clay, light blue	8	118	Shale	55	243
Shale	2	120	Sand	37	280
Clay, sandy	10	130	Shale	1	281
Sand	34	164			
Clay, heavy red	3	167	Well BH-65-52-901		
Clay, light blue	3	170	Owner: D. C. Bintliff Driller: L. Patterson		
Shale	10	180	Surface soil	25	25
Sand	25	205	Shale	21	46
Shale	3	208	Sand	62	108
Sand	2	210	Shale	16	124
Shale	2	212	Sand	30	154
Clay, light blue	2	214	Gravel	34	188
Clay, heavy red	2	216	Shale	15	203
Clay, light blue	1	217	Sand	23	226
Clay, unctuous red	4	221	Shale	122	348
Shale	9	230	Sand	47	395
Clay, light blue	5	235			
Gumbo, sandy black	4	239	Well BH-65-53-101		
Clay, unctuous red	6	245	Owner: Pedco Recreation Lake Driller: L. Patterson		
Clay, light blue	5	250	Surface	25	25
Clay, sandy	4	254	Sand, red	24	49
Clay, unctuous red	6	260	Shale	28	77
Silt	4	264	Sand, brown	29	106
Clay, gray	6	270	Shale	19	125
Shale, light blue	8	278	Sand and gravel, brown	72	197
Shale	3	281	Shale	1	198
Sand	19	300			

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-53-202			Well BH-65-53-402—Continued		
Owner: Humble Oil and Refining Co. Driller: L. Patterson			Sand	20	195
Surface material	23	23	Shale	1	196
Sand	30	53	Well BH-65-53-403		
Shale	120	173	Owner: J. H. Blackwell, Well 1 Driller: L. Patterson		
Sand	21	194	Surface	25	25
Shale	48	242	Shale	43	68
Sand	8	250	Sand	43	111
Shale	6	256	Shale	3	114
Sand	5	261	Sand	23	137
Shale	119	380	Shale	7	144
Sand	21	401	Sand	24	168
Shale	159	560	Shale	3	171
Sand	22	582	Sand	34	205
Shale	3	585	Shale	1	206
Sand	33	618	Well BH-65-53-502		
Well BH-65-53-401			Owner: City of Angleton, Well 5 Driller: L. Patterson		
Owner: M. T. Blackwell Driller: L. Patterson			Surface clay	24	24
Surface	25	25	Sand	37	61
Sand, fine	13	38	Shale	23	84
Shale	38	76	Sand	32	116
Sand	17	93	Shale	9	125
Shale	45	138	Sand	18	143
Sand	28	166	Shale	2	145
Shale	19	185	Sand	23	168
Sand	34	219	Shale	7	175
Shale	1	220	Sand	7	182
Well BH-65-53-402			Shale	8	190
Owner: J. H. Blackwell Driller: L. Patterson			Sand	30	220
Surface clay	24	24	Shale	4	224
Shale	72	96	Sand	25	249
Sand	19	115	Shale	2	251
Shale	17	132	Sand	3	254
Sand and gravel	26	158	Shale	13	267
Shale	17	175	Sand	18	285
			Shale	65	350

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-53-502—Continued			Well BH-65-53-505		
Sand	9	359	Owner: Humble Oil & Refining Co. Driller: L. Patterson		
Shale	151	510	Surface clay	23	23
Sand	13	523	Sand	57	80
Shale	35	558	Shale	75	155
Sand	5	563	Sand	15	170
Shale	41	604	Shale	60	230
Sand	3	607	Sand	23	253
Sand	50	657	Shale	145	398
Shale	2	659	Sand	13	411
Well BH-65-53-503			Shale	179	590
Owner: City of Angleton, Well 6 Driller: L. Patterson			Sand	35	625
Clay, surface and sand	28	28	Shale	3	628
Sand	22	50	Well BH-65-53-507		
Shale	21	71	Owner: Humble Oil & Refining Co. Driller: L. Patterson		
Sand	47	118	Surface material	24	24
Shale	12	130	Shale	175	199
Sand	33	163	Sand	21	220
Shale	71	234	Shale	226	446
Sand	81	315	Sand	4	450
Shale with strips of sand	10	325	Shale	149	599
Shale, sandy	79	404	Sand	37	636
Shale	14	418	Shale	104	740
Shale, sandy	105	523	Sand	53	793
Shale with strips of sand	17	540	Well BH-65-53-601		
Sand	72	612	Owner: Farrer & Evans Driller: L. Patterson		
Shale	63	675	Surface material	25	25
Well BH-65-53-504			Sand	23	48
Owner: Humble Oil & Refining Co. Driller: L. Patterson			Shale	44	92
Surface material	25	25	Sand	25	117
Sand and shale	196	221	Shale	31	148
Shale, sandy	42	263	Sand	21	169
Sand and shale	347	610	Shale	18	187
Shale, sandy	6	616	Sand	9	196
Sand and shale	186	802	Shale	1	197
Shale	5	807			

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-53-601—Continued			Well BH-65-53-801—Continued		
Sand	40	237	Sand with layers of clay	26	799
Shale	1	238	Clay	26	825
Well BH-65-53-603			Sand	18	843
Owner: Texas Agricultural Experimental Station			Clay	30	873
Driller: O. Eberspacher			Sand, broken and clay	39	912
Gumbo	28	28	Sand	22	934
Sand, fine-grained	1	29	Clay	41	975
Gumbo and shale	91	120	Sand, with layers of clay	27	1,002
Sand, fine-grained	10	130	Clay	10	1,012
Gumbo	10	140	Well BH-65-53-803		
Shale	6	146	Owner: City of Angleton, Well 2		
Gumbo	14	160	Driller: L. Patterson		
Shale, sandy	40	200	Clay	7	7
Sand, medium-grained	10	210	Sand	56	63
Gumbo, hard tough	70	280	Shale	25	88
Sand, fine-grained	15	295	Sand	32	120
Sand, medium-grained and shells	19	314	Shale	43	163
Gumbo, tough	10	324	Sand	10	173
Well BH-65-53-801			Shale	42	215
Owner: City of Angleton, Well 3			Sand	15	230
Driller: Layne-Texas Co.			Shale	123	353
Soil	8	8	Sand	2	355
Sand	52	60	Shale	41	396
Clay	23	83	Sand	21	417
Sand, streaks of, and clay	105	188	Shale	31	448
Clay	17	205	Sand	5	453
Sand	19	224	Shale	83	536
Clay, streaks of mealy clay	78	302	Sand	4	540
Clay	31	333	Shale	110	650
Clay, mealy	22	355	Shale, sandy	27	677
Clay	38	393	Shale	54	731
Clay, broken and sand	112	505	Sand	18	749
Sand, streaks of clay	83	588	Shale	31	780
Clay	70	658	Sand	4	784
Sand with layers of clay	70	728	Shale	41	825
Sand, fine-grained	24	752	Sand	17	842
Clay	21	773	Shale	29	871

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-53-803—Continued			Well BH-65-53-804—Continued		
Sand	4	875	Sand	7	809
Shale	41	916	Clay	9	818
Sand	74	990	Sand, fine-grained	19	837
Shale	10	1,000	Clay, tough	35	872
Well BH-65-53-804			Sand	2	874
Owner: City of Angleton, Well 4 Driller: Layne-Texas Co.			Clay, tough	27	901
Clay	11	11	Sand	28	929
Sand with layers clay	47	58	Clay	4	933
Clay	26	84	Well BH-65-53-901		
Sand and layers clay	28	112	Owner: Farrer & Evans Driller: L. Patterson		
Clay	56	168	Surface material	25	25
Sand	4	172	Sand	4	29
Clay and clay, sandy	37	209	Shale	108	137
Sand	11	220	Sand	30	167
Clay, hard and layers clay, sandy	117	337	Shale	2	169
Sand, shaly	8	345	Sand	11	180
Clay	49	394	Shale	54	234
Sand	16	410	Sand	28	262
Clay	10	420	Shale	2	264
Sand	3	423	Well BH-65-54-101		
Clay	21	444	Owner: Brazoria Co. WC & ID No. 4 Driller: Texas Water Wells		
Sand	6	450	Surface material	7	7
Clay and clay, sandy	80	530	Sand, red	78	85
Sand, broken	8	538	Sand	30	115
Clay	40	578	Sand and clay	25	140
Clay and clay, sandy	50	628	Clay	38	178
Clay, sandy	12	640	Sand	15	193
Sand and shale breaks	44	684	Clay	67	260
Clay	23	707	Sand	40	300
Sand	4	711	Clay, sandy	92	392
Clay	18	729	Clay	18	410
Sand	16	745	Clay, sandy	10	420
Clay	23	768	Shale	150	570
Clay, sandy	7	775	Shale, sandy and shale	85	655
Sand	4	779			
Clay and sand layers	23	802			

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-54-101—Continued			Well BH-65-54-401—Continued		
Shale, sticky	35	690	Shale	3	189
Shale, sandy	20	710	Sand	16	205
			Shale	78	283
Well BH-65-54-201			Sand	29	312
Owner: McCullough Tool Co. Driller: Katy Drilling Co.			Well BH-65-54-402		
Clay	75	75	Owner: Watson Bros. Driller: L. Patterson		
Sand, fine red	2	77			
Clay	7	84	Surface	25	25
Sand, fine blue	10	94	Sand	6	31
Clay	5	99	Shale	39	70
Sand, fine	9	108	Sand	50	120
Clay	69	177	Shale	59	179
Sand	9	186	Sand	30	209
Clay	26	212	Shale	43	252
Sand	3	215	Sand	17	269
Clay	28	243	Shale	31	300
Sand	10	253	Sand	56	356
Clay	93	346	Shale	1	357
Sand, fine	12	358			
Clay	58	416	Well BH-65-54-403		
Clay and sand strips	11	427	Owner: Watson Bros. Driller: L. Patterson		
Clay	41	468	Surface	25	25
Sand and clay strips	43	511	Shale	22	47
No record	4	515	Sand	11	58
Well BH-65-54-401			Shale	11	69
Owner: J. M. Skrabanek Driller: L. Patterson			Sand	46	115
Surface clay	24	24	Shale	18	133
Sand	14	38	Sand	21	154
Shale	7	45	Shale	1	155
Sand	8	53	Sand	60	215
Shale	2	55	Sand	36	251
Sand	30	85	Sand	16	267
Shale	1	86	Shale	45	312
Sand	23	109	Sand	23	335
Shale	13	122	Well BH-65-54-404		
Sand	64	186	Owner: Watson Bros. Driller: L. Patterson		
			Surface	24	24

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)			
Well BH-65-54-404—Continued			Well BH-65-54-407—Continued					
Shale	39	63	Clay	71	267			
Sand	54	117	Clay, sandy	26	293			
Shale	15	132	Gumbo	199	492			
Sand	16	148	Shale, soft	24	516			
Shale	1	149	Gumbo	150	666			
Sand	35	184	Sand	23	689			
Shale	1	185	Gumbo	44	733			
Sand	37	222	Sand	28	761			
Shale	2	224	Gumbo	4	765			
Well BH-65-54-405 Owner: Farrer & Tigner Driller: L. Patterson			Sand	9	774			
			Gumbo, soft	10	784			
			Sand, good	68	852			
Surface	25	25	Gumbo	13	865			
Sand	5	30	Sand	9	874			
Shale	40	70	Gumbo	74	948			
Sand	6	76	Sand	10	958			
Shale	25	101	Gumbo	2	960			
Sand	26	127	Well BH-65-54-411 Owner: M. W. Hammond Driller: L. Patterson					
Shale	22	149						
Sand	12	161						
Shale	33	194				Surface	25	25
Sand	25	219				Sand	6	31
Shale	24	243	Shale	56	87			
Sand	27	270	Sand	31	118			
Shale	30	300	Shale	2	120			
Sand	36	336	Sand	6	126			
Shale	1	337	Shale	9	135			
Well BH-65-54-407 Owner: J. M. Skrabanek Driller: Layne-Texas Co.			Sand	9	144			
			Shale	45	189			
			Sand	44	233			
Clay	67	67	Shale	3	236			
Sand, fine-grained	25	92	Well BH-65-54-501 Owner: M. W. Hammond Driller: L. Patterson					
Sand	30	122						
Clay	53	175						
Sand	10	185				Clay and sand	27	27
Clay	5	190				Sand	3	30
Sand	6	196	Shale	53	83			

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-54-501—Continued			Well BH-65-54-801		
Sand	5	88		Owner: C. M. Lemmons Driller: Layne-Texas Co.	
Shale	2	90	Clay	69	69
Sand	20	110	Sand	61	130
Shale	1	111	Clay	7	137
Sand	7	118	Sand	12	149
Shale	17	135	Clay and gumbo	97	246
Sand	11	146	Sand	13	259
Shale	6	152	Clay and gumbo	70	329
Sand	4	156	Sand	21	350
Shale	42	198	Clay gumbo	31	381
Sand	19	217	Sand	27	408
Shale	1	218	Clay	49	457
Sand	9	227	Sand	32	489
Shale	3	230	Rock	2	491
			Gumbo	104	595
			No record	69	664
			Clay, sandy	61	725
Surface soil	9	9	Sand	43	768
Clay	37	46	Clay, soft	32	800
Sand	12	58	Sand	37	837
Clay and gumbo	51	109	Clay, blue	2	839
Sand	40	149	Sand	66	905
Clay and gumbo	51	200	Gumbo	6	911
Sand	48	248			
Clay and gumbo	37	285			
Shale and sand	31	316			
Gumbo	29	345	Surface clay	26	26
Shale and sand	8	353	Sand	16	42
Gumbo	4	357	Shale	6	48
Shale	56	413	Gumbo	4	52
Sand	11	424	Shale	6	58
Sand and shale	54	478	Gumbo	12	70
Clay	63	541	Shale	4	74
Sand	69	610	Gumbo	15	89
Gumbo	4	614	Sand, fine-grained	69	158

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-54-901—Continued			Well BH-65-58-604—Continued		
Gumbo	37	195	Clay, red and blue	38	106
Sand, coarse-grained	45	240	Sand, fine brown	8	114
Gumbo	10	250	Sand, coarse brown and white clean	2	116
Shale	12	262	Sand, brown and white, with little clay streaks	2	118
Gumbo	16	278	Sand, coarse brown and white with clay balls	2	120
Shale	7	285	Sand, coarse brown and white	3	123
Sand	12	297	Sand, fairly coarse brown and white	2	125
Sand and shale	48	345	Sand, clean and sand, fine brown	3	128
Gumbo	15	360	Sand, fairly coarse white	2	130
Sand	41	401	Sand, coarse brown and white	2	132
Shale with streaks of sand and gumbo	131	532	Sand with clay balls clay and sand	3	135
Gumbo	14	546	Sand, brown and white with blue clay balls	2	137
Sand	5	551	Clay, blue sandy	2	139
Gumbo	9	560	Sand, brown and white	2	141
Shale	10	570	Sand, coarse brown and white	2	143
Gumbo	16	586	Sand, brown and white with little clay balls	2	145
Sand, fine-grained	37	623	Sand with clay balls and sand, coarse	2	147
Gumbo	5	628	Sand, fine white	2	149
Well BH-65-54-903			Sand, coarse brown and white	3	152
Owner: Freeport Sulphur Co. Driller: C. D. Simmons			Sand, brown and white gravel and clay	3	155
Clay and sand	52	52	Clay, blue and red and sand	3	158
Shale	11	63	Clay, sandy and gravel	3	161
Gumbo	17	80	Sand and gravel, fine	3	164
Shale	3	83	Sand and gravel, fine	2	166
Gumbo	45	128	Sand, coarse and gravel, fine	2	168
Sand, fine-grained	33	161	Sand, coarse and gravel, fine	2	170
Gumbo	19	180	Sand, fine brown and white with clay balls	3	173
Gumbo, tough	9	189	Sand, fine and brown and white	3	176
Sand, coarse-grained	51	240	Sand, brown and white with red and blue clay balls	3	179
Gumbo	5	245	Sand, brown and white with blue clay balls and sand, fine white	3	182
Well BH-65-58-604			Clay, red and blue	2	184
Owner: Phillips Petroleum Co., Well 2b Driller: Layne-Texas Co.			Clay, red and blue	10	194
Fill	4	4			
Clay, red and blue	16	20			
Sand	48	68			

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-58-605			Well BH-65-58-617—Continued		
Owner: Pan American Petroleum Co. Driller: Texas Water Wells			Clay	35	125
Soil, black	8	8	Sand, fine	15	140
Clay, red	15	23	Sand, coarse	29	169
Sand, soft	15	38	Clay	4	173
Sand, gray	22	60	No record	1	174
Shale, blue	15	75	Well BH-65-58-620		
Sand and gravel	15	90	Owner: Phillips Petroleum Co. Well 8a Driller: Layne-Texas Co.		
Shale, black	7	97	Fill	3	3
Sand	77	174	Clay	17	20
Sand, hard	2	176	Sand, fine	30	50
Gumbo	4	180	Clay	52	102
Well BH-65-58-616			Sand, fine	20	122
Owner: Phillips Petroleum Co. Well 5 Driller: M. N. Dannenbaum			Sand, coarse and gravel fine	38	160
Surface material	12	12	Clay, red	10	170
Sand	28	40	No record	2	172
Shale	55	95	Well BH-65-59-403		
Sand	75	170	Owner: Phillips Petroleum Co. Driller: Layne-Texas Co.		
Shale	121	291	Topsoil	2	2
Sand	16	307	Clay	9	11
Shale	43	350	Sand, white	31	42
Sand	28	378	Clay and sand layers	85	127
Shale	50	428	Sand, coarse and gravel, fine	40	167
Sand	75	503	Clay, red	4	171
Shale	39	542	No record	1	172
Sand	16	558	Well BH-65-59-404		
Shale	30	588	Owner: Phillips Petroleum Co. Well 1a Driller: Layne-Texas Co.		
Sand	15	603	Topsoil	2	2
Shale	59	662	Clay	21	23
Sand	21	683	Sand	32	55
Shale	2	685	Clay, sandy	35	90
Sand	30	715	Sand, brown with clay balls	20	110
Well BH-65-58-617			Sand, coarse with fine gravel	47	157
Owner: Phillips Petroleum Co. Well 8b Driller: Layne-Texas Co.			Clay with one small sand break	17	174
Clay	40	40			
Clay, sandy and sand streaks	50	90			

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-59-405			Well BH-65-59-408—Continued		
Owner: Phillips Petroleum Co. Driller: Layne-Texas Co.			Clay	11	15
Blacksoil	8	8	Shale, sand	34	49
Clay, red and white	11	19	Sand, fine red	20	69
Sand	18	37	Gumbo	16	85
Clay, sandy	13	50	Sand, fine	7	92
Clay	50	100	Gumbo	20	112
Clay, sandy	7	107	Sand	3	115
Sand with a little clay	43	150	Gumbo	10	125
Sand and gravel, fine	10	160	Sand	12	137
Clay, sandy	3	163	Sand and gravel	45	182
			Gumbo	18	200
Well BH-65-59-406			Well BH-65-59-409		
Owner: Phillips Petroleum Co. Well 6d Driller: Layne-Texas Co.			Owner: Pan American Petroleum Co. Driller: Texas Water Wells		
Topsoil	2	2	Surface clay	35	35
Clay, red and white	7	9	Sand, coarse	17	52
Sand, red	11	20	Shale, sandy	23	75
Sand, white	22	42	Shale, sticky	25	100
Clay and sandy clay	67	109	Shale, sandy	10	110
Sand, fine	5	114	Sand	56	166
Sand, coarse	41	155	Shale, sticky	5	171
Sand, coarse and gravel and clay balls, blue	22	177			
Clay, red	7	184	Well BH-65-59-410		
Well BH-65-59-407			Owner: Phillips Petroleum Co. Obs. Well 2 Driller: Layne-Texas Co.		
Owner: Phillips Petroleum Co. Well 3c Driller: Layne-Texas Co.			Surface clay	14	14
Fill dirt	6	6	Sand	17	31
Clay	16	22	Clay	4	35
Sand and clay breaks	49	71	Sand and clay thin layers of	19	54
Clay	35	106	Clay	12	66
Sand, fine brown	12	118	Clay, sandy	11	77
Sand, coarse gray	48	166	Clay	11	88
Clay	14	180	Sand and clay layers	22	110
Well BH-65-59-408			Sand, clean	9	119
Owner: Pan American Petroleum Co. Driller: Coastal Drilling Co.			Clay	2	121
Surface soil	4	4	Sand, clean coarse-grained	35	156
			Clay	5	161

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-59-411			Well BH-65-59-411—Continued		
Owner: Phillips Petroleum Co. Obs. Well 1 Driller: Layne-Texas Co.			Owner: Phillips Petroleum Co. Well 4 Driller: M. N. Dannenbaum		
Surface clay	11	11	Sand	7	739
Sand, good and thin layers of clay	49	60	Clay	9	748
Clay, soft	17	77	Sand	13	761
Sand, good	20	97	Clay	13	774
Clay	5	102	Well BH-65-59-415		
Sand, good	54	156	Owner: Phillips Petroleum Co. Well 4 Driller: M. N. Dannenbaum		
Clay	41	197	Surface material	12	12
Sand, coarse-grained	8	205	Sand	58	70
Clay, sandy	52	257	Shale	28	98
Sand, broken	19	276	Sand	71	169
Clay	10	286	Well BH-65-59-417		
Sand	33	319	Owner: Phillips Petroleum Co. Well 1 Driller: —		
Clay	23	342	Surface soil, black	4	4
Clay, sandy	6	348	Clay, red	8	12
Sand, fine-grained	10	358	Sand	15	27
Clay	15	373	Sand, few streaks and clay, red layers	41	68
Sand	4	377	Clay	24	92
Clay	63	440	Sand	45	137
Sand	19	459	Sand, coarse-grained	18	155
Clay, tough	24	483	Clay, tough	4	159
Sand	7	490	Well BH-65-59-418		
Clay	2	492	Owner: Phillips Petroleum Co. Well 3 Driller: M. N. Dannenbaum		
Sand	11	503	Surface material	11	11
Clay, tough	28	531	Sand	61	72
Sand	5	536	Shale	24	96
Clay	4	540	Sand	68	164
Sand	5	545	Well BH-65-59-421		
Clay	34	579	Owner: Phillips Petroleum Co. Well 10 Driller: Layne-Texas Co.		
Sand	15	594	Topsoil	2	2
Clay	27	621	Clay	28	30
Clay, sandy	25	646	Sand	30	60
Sand	25	671			
Clay	4	675			
Sand	30	705			
Clay	27	732			

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-59-421—Continued			Well BH-65-59-502		
Clay	40	100	Owner: Texaco Inc. Driller: L. Patterson		
Sand, fine brown	32	132	Surface sand and clay	24	24
Sand, coarse gray	14	146	Sand	44	68
Clay	11	157	Shale	66	134
Sand, coarse and gravel	17	174	Sand	16	150
Clay with sand streaks	21	195	Shale	296	446
Clay	54	249	Sand	27	473
Sand, coarse gray	21	270			
Sand, fine gray	58	328	Well BH-65-59-801		
Sand	6	334	Owner: City of Sweeny Driller: Henry Lane		
Clay	14	348	Surface soil	5	5
Well BH-65-59-426			Clay	30	35
Owner: J. S. Abercrombie Driller: Henry Lane			Sand	40	75
Surface soil	3	3	Shale	130	205
Surface clay	9	12	Sand	55	260
Sand, surface	58	70	Well BH-65-59-802		
Shale	42	112	Owner: City of Sweeny Driller: Henry Lane		
Sand	28	140	Surface soil	10	10
Well BH-65-59-428			Sand	20	30
Owner: Phillips Petroleum Co. Driller: Layne-Texas Co.			Shale	30	60
Topsoil	2	2	Sand	20	80
Clay	28	30	Shale	42	122
Sand	30	60	Shale streaks	28	150
Clay	40	100	Sand	30	180
Sand, fine	32	132	Shale	15	195
Sand, coarse	28	160	Shale streaks	45	240
Clay and gravel	24	184	Shale	60	300
Well BH-65-59-429			Shale streaks	15	315
Owner: Phillips Petroleum Co. Well 7b Driller: Layne-Texas Co.			Shale, sandy	50	365
Clay	18	18	Sand	25	390
Sand	22	40	Shale	76	466
Clay, sandy	55	95	Sand	40	506
Sand and small clay breaks	65	160	Well BH-65-60-501		
Clay	3	163	Owner: City of Brazoria Well 1 Driller: Layne-Texas Co.		
			Clay	18	18

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-60-501—Continued			Well BH-65-60-806—Continued		
Clay, sandy	20	38	Sand	10	386
Clay	14	52	Shale, sandy	10	396
Sand	19	71	Shale and shale, sandy	14	410
Clay	39	110	Sand, fine white	29	439
Clay, sandy	18	128	Shale	11	450
Sand	13	141	Sand, coarse	20	470
Clay	19	160	Shale	12	482
Clay	22	182			
Sand	10	192	Well BH-65-61-101		
Clay	46	238	Owner: Texas Department of Corrections Driller: Katy Drilling Co.		
Sand	12	250	Topsoil and clay	37	37
Clay	21	271	Clay and sand strips	26	63
Clay, sandy	17	288	Clay	75	138
Clay	30	318	Sand	30	168
Sand, fine	18	336	Clay	12	180
Shale and sandy shale	64	400	Sand	21	201
Sand	11	411	Clay	10	211
Shale	15	426	Sand	12	223
Shale	14	440	Clay	15	238
Sand	29	469	Sand	63	301
Shale	3	472	Clay	12	313
			Sand and rock	19	332
			Clay	4	336
			Sand shale	112	448
			Shale	40	488
Well BH-65-60-806			Well BH-65-61-102		
Owner: City of Brazoria Driller: Layne-Texas Co.			Owner: Texas Department of Corrections Driller: J. Siegert & Sons		
Surface soil	2	2	Clay, red mushy	50	50
Clay, sandy and sand	34	36	Clay and gravel	10	60
Shale	11	47	Clay, red	10	70
Sand, coarse white	23	70	Clay, yellow	23	93
Shale	25	95	Clay, red	21	114
Sand, coarse and shale streaks	80	175	Clay, mushy	15	129
Shale	8	183	Clay, blue mushy	17	146
Sand, fine white	17	200	Clay, streaky sandy	11	157
Shale	36	236	Sand, gravel	18	175
Sand and shale streaks	34	270			
Sand, fine white	30	300			
Shale and sand streaks	23	323			
Shale, sandy and sand streaks	53	376			

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-61-102—Continued			Well BH-65-61-105—Continued		
Sand, coarse and gravel blue rocks	20	195	Shale	191	642
Clay	6	201	Sand, medium	16	658
Sand	9	210	Shale	6	664
Clay	6	216	Sand	8	672
Gravel sand	4	220	Shale	189	861
Clay	6	226	Sand	19	880
			Shale	5	885
Well BH-65-61-103			Well BH-65-61-301		
Owner: L. O. Harris Driller: L. Patterson			Owner: J. H. Tigner Driller: L. Patterson		
Surface	24	24	Surface	25	25
Shale	19	43	Sand	3	28
Sand	7	50	Shale	52	80
Shale	30	80	Sand	9	89
Sand	20	100	Shale	1	90
Shale	44	144	Sand	26	116
Sand and gravel	45	189	Shale	2	118
Shale	1	190	Sand	22	140
Sand	51	241	Shale	116	256
			Sand	6	262
Well BH-65-61-105			Shale	1	263
Owner: Humble Oil & Refining Co. Driller: L. Patterson			Sand	28	291
Surface	40	40	Shale	109	400
Sand	10	50	Sand	35	435
Shale	20	70	Shale	35	470
Sand	42	112	Sand	8	478
Shale	18	130	Shale	1	479
Sand	11	141	Sand	19	498
Shale	13	154	Shale	96	594
Sand	9	163	Sand	31	625
Shale	14	177	Shale	1	626
Sand	3	180			
Shale	41	221	Well BH-65-61-402		
Sand and gravel	31	252	Owner: Dow Chemical Company Driller: Layne-Texas Co.		
Shale	10	262	Surface	2	2
Sand	4	266	Clay, red sandy	16	18
Shale	163	429	Sand	19	37
Sand, fine	22	451			

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-61-402—Continued			Well BH-65-61-508—Continued		
Clay, gray	33	70	Clay	5	232
Clay, gray	40	110	Sand	5	237
Clay, red	45	155	Clay and clay, sandy	44	281
Sand	27	182	Clay, sandy and streaks of sand	17	298
Clay and sand streaks	15	197	Sand and clay, hard streaks of	31	329
Clay with sand streaks	45	242	Clay, sandy	12	341
Well BH-65-61-404			Well BH-65-61-601		
Owner: Dow Chemical Co. Driller: L. Patterson			Owner: Fred Waltermire Driller: L. Patterson		
Surface	13	13	Surface	24	24
Clay and shale	34	47	Shale	112	136
Sand	22	69	Sand	23	159
Shale	88	157	Shale	39	198
Sand	33	190	Sand	18	216
Shale	1	191	Shale	87	303
Sand	17	208	Sand	22	325
Shale	157	365	Shale	1	326
Sand	7	372	Sand	15	341
Shale	126	498	Shale	9	350
Sand, fine silty	14	512	Sand	11	361
Shale	100	612	Shale	218	579
Sand, fine	10	622	Sand	10	589
Shale	72	694	Shale	52	641
Sand, medium	13	707	Sand	57	698
Shale	1	708	Shale	3	701
Well BH-65-61-508			Well BH-65-61-703		
Owner: City of Lake Jackson Driller: Layne-Texas Co.			Owner: Texas Department of Corrections Driller: Texas Water Wells		
Surface soil	4	4	Top and subsoil	20	20
Clay, red	78	82	Sand, shallow	45	65
Clay, blue	39	121	Clay	35	100
Sand	4	125	Shale, sandy	86	186
Clay, sandy	16	141	Sand	44	230
Clay, sandy and streaks of sand	31	172	Shale	39	269
Sand, coarse	21	193	Sand	41	310
Clay, sandy	10	203	Shale	48	358
Sand, gravel and hard streaks	24	227			

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-61-704			Well BH-65-61-802—Continued		
Owner: Texas Department of Corrections Driller: Texas Water Wells			Owner: City of Lake Jackson Well 3 Driller: Layne-Texas Co.		
Top and subsoil	12	12	Clay, sandy	9	124
Sand, shallow	48	60	Clay, sandy and shale, blue streaks	35	159
Clay, sandy	19	79	Sand, fine and shale breaks	23	182
Sand, fine	28	107	Shale, sandy	41	223
Shale	2	109	Sand, coarse white	18	241
Silt and sand	12	121	Shale, sandy	60	301
Shale, sandy	15	136	Sand, coarse white	27	328
Shale	26	162	Shale	17	345
Sand	84	246	Well BH-65-61-804		
Shale	30	276	Owner: City of Lake Jackson Well 3 Driller: Layne-Texas Co.		
Sand	55	331	Soil	2	2
Shale, sandy	27	358	Clay, red and yellow	20	22
Well BH-65-61-705			Shale, red and blue	155	177
Owner: Texas Department of Corrections Driller: Texas Water Wells			Sand, coarse	3	180
Top and subsoil	9	9	Shale, red and blue	35	215
Clay	23	32	Sand, coarse and gravel	21	236
Sand	10	42	Shale	64	300
Clay, sandy	66	108	Well BH-65-51-805		
Sand	32	140	Owner: City of Lake Jackson Well 2 Driller: Layne-Texas Co.		
Shale	33	173	Soil, black	3	3
Sand	23	196	Clay	32	35
Shale	14	210	Sand, fine grained	25	60
Sand	22	232	Clay, few sand breaks	104	164
Shale	50	282	Sand, good	16	180
Sand	54	336	Shale, sticky	24	204
Shale	22	358	Sand and gravel	26	230
Well BH-65-61-802			Shale, sticky	4	234
Owner: City of Lake Jackson Well 6 Driller: Layne-Texas Co.			Well BH-65-61-806		
Topsoil	5	5	Owner: Dow Chemical Company Obs. Well 10 Driller: Layne-Texas Co.		
Clay	20	25	Soil, surface	3	3
Clay, sandy	23	48	Clay, red and gray	37	40
Clay, sand and clay streaks	26	74	Clay, red	30	70
Clay and shale, blue	16	90	Clay, soft blue	30	100
Sand	25	115	Clay, brown	58	158

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-61-806—Continued			Well BH-65-61-902—Continued		
Sand	18	176	Shale and sand, fine	12	156
Clay, brown	14	190	Sand	6	162
Clay, blue	24	214	Shale	32	194
Sand	25	239	Sand and gravel	44	328
Clay	12	251	Sand and shale	12	250
Well BH-65-61-807			Well BH-65-61-903		
Owner: City of Lake Jackson Well 1 Driller: Layne-Texas Co.			Owner: City of Lake Barbara Driller: Layne-Texas Co.		
Surface soil	5	5	Surface material	25	25
Clay	27	32	Shale	96	121
Sand, fine grained	25	57	Sand	29	150
Clay, few small sandy breaks	102	159	Shale	4	154
Sand, good	20	179	Sand, fine	22	176
Clay	16	195	Shale	24	200
Well BH-65-61-901			Sand, medium		
Owner: City of Clute Well 2 Driller: Layne-Texas Co.			Shale		
Surface soil, black	3	3		1	229
Clay, red	14	17	Well BH-65-61-905		
Sand, red and white	24	41	Owner: City of Lake Barbara Driller: Layne-Texas Co.		
Clay, yellow and blue	16	57	Surface clay	121	121
Clay, red	59	116	Sand, red	12	133
Sand, gray and clay breaks	41	157	Clay	71	204
Clay, blue	14	171	Sand, coarse	20	224
Sand, gray	15	186	Clay	3	227
Clay	24	210	Sand	5	232
Sand, gray and sand fine	30	240	Clay and clay, sandy	18	250
Shale, tough	74	314	No record	2	252
Shale, sandy	12	326	Well BH-65-61-906		
Well BH-65-61-902			Owner: Red Barn Chemical Co. Driller: —		
Owner: City of Clute Well 1 Driller: Layne-Texas Co.			Clay, black		
Surface soil	2	2	Clay, yellow		
Clay and clay, sandy	44	46	Sand		
Sand, fine	10	56	Clay		
Shale, soft	50	106	Sand		
Shale, streaks	38	144	Clay		
			Shale		

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-61-906—Continued			Well BH-65-62-101		
Clay	10	133			
Sand	8	141			
Rock	2	143	Clay and sand	25	25
Clay	56	199	Sand	26	51
Sand	2	201	Shale	53	104
Clay	7	208	Sand	8	112
Sand	33	241	Shale	130	242
			Sand	22	264
			Shale	13	277
			Sand and gravel	34	311
Well BH-65-61-909			Well BH-65-62-102		
Owner: R. Stringfellow Driller: Henry Lane			Owner: W. D. Evans Driller: L. Patterson		
Surface soil	3	3			
Clay	37	40			
Surface sand	30	70	Surface	24	24
Shale	60	130	Sand	33	57
Sand	50	180	Shale	38	95
Shale	50	230	Sand	16	111
Sand	13	243	Shale	19	130
Shale	102	345	Sand, fine	19	149
Sand	15	360	Shale	33	182
Shale, blue	105	465	Shale, sandy	14	196
Sand, fine grained	25	490	Shale	91	287
Shale, gray	47	537	Sand, fine	2	289
Shells, oyster	38	575	Shale	3	292
Sand	15	590	Sand, coarse	16	308
Shale, gray	118	708	Shale	2	310
Sand	37	745			
Well BH-65-61-911			Well BH-65-62-103		
Owner: Dow Chemical Co. Well 5 Driller: Layne-Texas Co.			Owner: W. D. Evans Driller: L. Patterson		
Surface material	16	16	Surface	24	24
Sand	28	44	Sand	32	56
Clay	7	51	Shale	34	90
Clay, sandy	22	73	Sand	6	96
Clay	76	149	Shale	11	107
Clay, sandy	23	172	Sand	5	112
Clay	27	199	Shale	5	117
Sand	30	229	Sand, fine	13	130
Clay	10	239	Shale	3	133

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-65-62-103—Continued			Well BH-65-62-106—Continued		
Sand, fine	13	146	Shale	65	278
Shale	69	215	Sand	23	301
Sand	5	220			
Shale	32	252	Well BH-65-62-302		
Sand	32	284	Owner: Mound Company Driller: L. Patterson		
Shale	7	291	Surface	25	25
Sand, coarse	16	307	Sand	3	28
Shale	2	309	Shale	66	94
			Sand	17	111
Well BH-65-62-104			Shale	1	112
			Sand	30	142
Owner: W. D. Evans Driller: L. Patterson			Shale	21	163
Surface	24	24	Sand	15	178
Sand	26	50	Shale	32	210
Shale	61	111	Sand	56	266
Sand	18	129	Shale	3	269
Shale	9	138			
Sand	10	148	Well BH-65-62-401		
Shale	104	252	Owner: W. D. Evans Driller: L. Patterson		
Sand	30	282			
Shale	1	283	Surface	24	24
Sand	23	306	Shale	107	131
Shale	2	308	Sand	12	143
			Shale	1	144
Well BH-65-62-106			Sand	21	165
			Shale	95	260
Owner: L. H. Follett Driller: L. Patterson			Sand	23	283
Surface soil	25	25	Shale	17	300
Sand	6	31	Sand	23	323
Shale	9	40	Shale	1	324
Sand	8	48			
Shale	26	74	Well BH-81-03-903		
Sand	7	81	Owner: John Craig Driller: F. W. Gotcher		
Shale	19	100			
Sand	8	108	Clay, red	82	82
Shale	12	120	Sand, good	25	107
Sand and shale	15	135	Clay	1	108
Shale	73	208			
Sand	5	213			

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-81-04-201					
Owner: Holliday Land Co. Driller: Layne-Texas Co.					
Surface soil	2	2	Clay	40	40
Clay and clay, sandy	44	46	Shale	15	55
Sand	21	67	Sand	43	98
Shale, sandy	90	157			
Sand	61	218			
Shale, sandy	15	233			
Shale	35	268	Surface	26	26
Shale, sandy	39	307	Shale	30	56
Shale, sandy and sand breaks	27	334	Sand	29	85
Shale and sandy shale	74	408	Shale	17	102
Sand, fine packed	16	424	Sand	10	112
Shale, sandy and shale	40	464			
Sand and shale, sandy	42	506			
Shale	19	525			
Well BH-81-04-202					
Owner: Holliday Land Co. Driller: Jefferson Lake Sulphur Co.					
Rotary above ground	5	5			
Clay	49	54			
Sand	17	71			
Gumbo	28	99			
Shale	6	105			
Sand and gravel	75	180			
Shale	27	207			
Sand	10	217			
Shale	92	309			
Sand	8	317			
Gumbo	10	327			
Shale, sandy	84	411			
Shale, sandy and boulders	43	454			
Shale	8	462			
Sand	2	464			
Shale	5	469			
Sand	37	506			
Shale	5	511			
Well BH-81-04-203					
Owner: Jefferson Lake Sulphur Co. Driller: Jefferson Lake Sulphur Co.					
Well BH-81-04-204					
Owner: Holiday Land Co. Driller: Henry Lane					
Well BH-81-04-205					
Owner: Jefferson Lake Sulphur Co. Driller: Raymond Weinbrenner					
			Top of rotary	2	2
			Clay, red and sand	71	73
			Sand, white and gravel	27	100
Well BH-81-04-207					
Owner: Jefferson Lake Sulphur Co. Driller: Bernard Patton					
			Soil	4	4
			Clay, red	30	34
			Clay, blue	9	43
			Shale, sandy	13	56
			Sand	26	82
			Clay	4	86
Well BH-81-04-213					
Owner: Jefferson Lake Sulphur Co. Driller: Jefferson Lake Sulphur Co.					
			Rotary above ground	5	5
			Surface clay	45	50
			Sand	26	76
			Shale	29	105
			Sand	12	117
			Shale	141	258

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-81-04-213—Continued			Well BH-81-05-301—Continued		
Sand	27	285	Sand	28	210
Shale	32	317	Sand	25	235
Sand	13	330	Shale, tough	65	300
Shale, sandy	74	404	Shale and sandy shale	258	558
Sand	13	417	Sand and shale broken	78	636
Shale	48	465	Shale and sandy shale	74	710
Shale and boulders	8	473	Shale, tough	129	839
Sand and shale	11	484	Shale and sandy shale	47	886
Sand	16	500	Shale, sandy	76	962
Shale	4	504	Sand and layers of shale	170	1,132
			Shale	11	1,143
Well BH-81-04-908			Well BH-81-05-303		
Owner: E. R. Collins Driller: Chrysty Kuhlmann			Owner: Dow Chemical Co. Obs. Well 12 Driller: Layne-Texas Co.		
Topsoil and clay, red	45	45	Surface soil	3	3
Shale, sandy blue	209	254	Clay, yellow and gray	15	18
Shale, hard gray	266	520	Sand, red	28	46
Sand, good	36	556	Clay, brown	14	60
Well BH-81-04-909			Well BH-81-05-304		
Owner: Rupert Radford Driller: Chrysty Kuhlmann			Owner: Dow Chemical Co. Obs. Well 8 Driller: Layne-Texas Co.		
Topsoil and clay	40	40	Fill	6	6
Sand	11	51	Clay, red and gray	15	21
Clay, yellow	60	111	Clay, red	23	44
Sand	15	126	Sand	27	71
Clay, red	104	230	Clay, green	14	85
Sand	11	241	Sand	51	136
Gumbo, blue	284	525	Clay, gray	20	156
Sand	29	554			

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-81-05-304—Continued			Well BH-81-05-307—Continued		
Sand	82	238	Clay	17	199
Clay and sand streaks	23	261	Sand	26	225
Well BH-81-05-305			Well BH-81-05-308		
Owner: Dow Chemical Co. Obs. Well 9 Driller: Layne-Texas Co.			Owner: Dow Chemical Co. Driller: Layne-Texas Co.		
Surface soil	4	4	Surface, soil black	2	2
Clay, yellow and gray	24	28	Clay	50	52
Clay, red	22	50	Sand, brown	14	66
Clay, soft blue	37	87	Shale, blue and red	96	162
Shell and clay	8	95	Sand and gravel, coarse	18	180
Clay, brown	9	104	Shale, sticky	31	211
Sand	7	111	Sand, fair	20	231
Clay, brown	43	154	Shale, sticky	2	233
Sand	25	179			
Clay, blue	22	201	Well BH-81-05-309		
Sand	28	229	Owner: Dow Chemical Co. Driller: Layne-Texas Co.		
Clay, blue	12	241	Surface soil, black	6	6
Well BH-81-05-306			Clay	10	16
Owner: Dow Chemical Co. Obs. Well 7 Driller: Layne-Texas Co.			Clay, sandy	50	66
Surface soil	4	4	Shale and layers of sand	102	168
Clay, yellow and gray	21	25	Sand and gravel	16	184
Sand	16	41	Shale sticky	16	200
Clay, brown	24	65	Sand and gravel	27	227
Clay, blue and shell	26	91	Shale, sticky	3	230
Sand and shell	32	123			
Clay, soft blue	34	157	Well BH-81-05-312		
Sand	74	231	Owner: Dow Chemical Co. Well 4 Driller: Layne-Texas Co.		
Clay	4	235	Clay	42	42
Sand streaks and clay	15	250	Sand	17	59
Well BH-81-05-307			Clay	32	91
Owner: Dow Chemical Co. Driller: Layne-Texas Co.			Clay, sandy	23	114
Clay	45	45	Clay	47	161
Sand	20	65	Sand	25	186
Clay	115	180	Clay	5	191
Sand	2	182	Sand	5	196
			Clay	8	204
			Sand	35	239

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-81-05-312—Continued			Well BH-81-05-315—Continued		
Clay	2	241	Sand, cut good	178	1,138
No record	8	249	Shale, sandy	12	1,150
Well BH-81-05-314			Well BH-81-05-316		
Owner: Dow Chemical Co. Well 6 Driller: Layne-Texas Co.			Owner: Dow Chemical Co. Well 10 Driller: Layne-Texas Co.		
Surface material	10	10	Surface soil, black	2	2
Clay, sandy	20	30	Clay	32	34
Sand	9	39	Sand, brown	23	57
Clay	47	86	Shale, blue and red	118	175
Clay, sandy	8	94	Sand, fair	15	190
Sand	20	114	Shale, sticky	10	200
Clay	38	152	Sand and gravel	30	230
Sand, coarse-grained	23	175	Shale, sticky	4	234
Shale	8	183	No record	2	236
Sand	54	237			
Well BH-81-05-315			Well BH-81-05-317		
Owner: Dow Chemical Co. Well 19b Driller: Layne-Texas Co.			Owner: Dow Chemical Co. Well 9 Driller: Layne-Texas Co.		
Rotary to surface	4	4	Clay, soft without sand breaks	173	173
Clay	69	73	Sand, fine-grained	18	191
Clay, sandy	16	89	Sand and shale	15	206
Clay and sandy clay	14	103	Sand, good water	23	229
Clay, sandy	41	144	Shale	30	259
Shale	11	155	Sand, fine-grained	10	269
Sand	49	204	Shale, soft	244	513
Sand and gravel	45	249	Sand, good water	21	534
Shale	36	285	Shale, soft	45	579
Sand and streaks of shale	21	306	Sand	19	598
Shale	20	326	Shale	27	625
Shale and layers of sand	44	370	Shale, tough and few soft streaks	45	670
Shale, sandy and layers of sand	155	525	Shale, sandy and shell	232	902
Sand and layers of shale	70	595	Sand, fine-grained	34	936
Shale and sandy shale	113	708	Sand, good	101	1,037
Shale, sandy	25	733	Shale and shale, sandy	25	1,062
Shale, tough	157	890	Sand, good	165	1,227
Shale, sandy	70	960	Sand, hard	10	1,237
			Rock, hard sand	1	1,238

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-81-05-318			Well BH-81-05-603—Continued		
Owner: Dow Chemical Co. Driller: Layne-Texas Co.			Muck	23	25
Surface material	6	6	Clay	9	34
Clay, sandy clay, sand breaks	97	103	Sand, fine-grained	10	44
Sand, clay breaks	20	123	Clay and streaks of sand	47	91
Clay, some sandy sandy breaks	81	204	Clay, blue	11	102
Sand, good water	31	235	Sand, fine-grained	12	114
Clay	30	265	Clay, red	7	121
Sand, fine-grained and shale breaks	24	289	Sand, fine-grained brown	26	147
Shale and some sandy breaks	236	525	Clay	74	221
Sand	16	541	Sand, coarse-grained and gravel	27	248
Shale	25	566	Clay, tough	6	254
Sand, shale	40	606	Well BH-81-05-604		
Shale, some sandy breaks	184	790	Owner: Dow Chemical Co. Well 7 Driller: Layne-Texas Co.		
Sand and shale	60	850	Fill and muck	12	12
Shale	33	883	Clay	11	23
Sand	4	887	Clay and streaks of sand	27	50
Shale, tough	110	997	Sand, fine-grained	5	55
Shale and sandy shale	14	1,011	Clay, soft	19	74
Sand (good, top part fine-grained)	49	1,060	Sand, fine-grained blue	12	86
Shale	5	1,065	Clay	23	109
Well BH-81-05-602			Clay and sand	46	155
Owner: Dow Chemical Co. Obs. Well 13 Driller: Layne-Texas Co.			Sand, white	20	175
Surface	2	2	Clay	40	215
Clay, red and gray	19	21	Sand, coarse-grained and gravel	32	247
Clay, gray	15	36	Clay	6	253
Sand, brown	14	50	Well BH-81-05-605		
Clay, blue	72	122	Owner: Dow Chemical Co. Well 14 Driller: Layne-Texas Co.		
Clay, brown	8	130	Clay, surface material	15	15
Sand	13	143	Clay	25	40
Sand, shell and clay	77	220	Sand, red	18	58
Sand	18	238	Clay	21	79
Clay, brown	19	257	Clay, sandy	20	99
Well BH-81-05-603			Sand	10	109
Owner: Dow Chemical Co. Well 6 Driller: Layne-Texas Co.			Clay	9	118
Surface soil	2	2	Sand, red	5	123

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-81-05-605—Continued			Well BH-81-05-903		
Clay, sandy	10	133	Owner: U.S. Corps of Engrs. Well 3 Driller: Layne-Texas Co.		
Clay	20	153	Clay	42	42
Clay, sandy	26	179	Sand and shell	20	62
Sand	51	230	Clay	5	67
Well BH-81-05-606			Clay, blue and shell	60	127
Owner: Dow Chemical Co. Driller: Layne-Texas Co.			Sand	4	131
Surface soil	6	6	Clay, blue and shell	57	188
Clay, red	14	20	Sand, gray	36	224
Clay, blue	20	40	Clay	16	240
Sand	10	50	Well BH-81-06-101		
Clay, soft blue	94	144	Owner: City of Freeport Well 3 Driller: Texas Water Wells		
Sand	12	156	Surface soil	4	4
Clay, blue	29	185	Clay, red, yellow and blue	115	119
Sand and clay streaks	12	197	Shale, soft sandy and shells	71	190
Clay	58	255	Clay, blue and red	29	219
Sand	16	271	Sand, coarse	28	247
Clay	30	301	Clay, red and blue	13	260
Well BH-81-05-607			Well BH-81-06-102		
Owner: Dow Chemical Co. Driller: Layne-Texas Co.			Owner: City of Freeport Well 4 Driller: Texas Water Wells		
Fill	10	10	Surface soil	3	3
Clay, yellow and gray	29	39	Clay, red	15	18
Clay, red	11	50	Clay, gray	5	23
Clay, blue	106	156	Clay, red	12	35
Sand and shell	7	163	Clay, gray and yellow	9	44
Clay, blue	111	274	Clay, red	13	57
Clay	7	281	Clay, gray	74	131
Well BH-81-05-901			Clay, red and gray	15	146
Owner: U.S. Corps of Engrs. Driller: Layne-Texas Co.			Clay, sandy	12	158
Clay, red and blue	100	100	Clay, sandy	22	180
Clay	42	142	Clay	12	192
Clay, sandy	48	190	Sand	12	204
Sand, coarse-grained gray	34	224	Clay	5	209
Clay	6	230	Sand, hard	26	235
			Sand and gravel, hard	12	247
			Clay	20	267

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-81-06-103			Well BH-81-06-209—Continued		
Owner: City of Freeport Well 2 Driller: Layne-Texas Co.			Owner: City of Freeport Well 9 Driller: Layne-Texas Co.		
Soil	2	2	Sand and clay	46	92
Clay	90	92	Clay with sand breaks	21	113
Sand, fine-grained shells	12	104	Sand	42	155
Clay, soft	114	218	Clay	11	166
Sand, coarse-grained and gravel	27	245	Sand	7	173
Clay	10	255	Clay	3	176
Well BH-81-06-104			Sand	16	192
Owner: City of Freeport Well 1 Driller: Layne-Texas Co.			Clay, tough	62	254
Surface soil	9	9	Sand	20	274
Sand, fine-grained red	8	17	No record	5	279
Clay, red	100	117	Well BH-81-06-402		
Sand, fine-grained clay	31	148	Owner: City of Freeport Well 9 Driller: Layne-Texas Co.		
Clay, soft	68	216	Topsoil	4	4
Sand, coarse-grained	47	263	Clay, red	40	44
Shale, soft	3	266	Clay, red	21	65
Well BH-81-06-106			Shale, gray	28	93
Owner: A. P. Green Refractories Driller: L. Patterson			Sand	10	103
Fill and clay	14	14	Shale, broken	12	115
Sand	23	37	Sand, white	14	129
Shale	15	52	Shale, sandy	7	136
Sand	15	67	Shale, tough	22	158
Shale	62	129	Shale, broken	21	179
Sand	8	137	Shale, tough	29	208
Shale	21	158	Sand and gravel	30	238
Sand	30	188	Shale, tough	10	248
Shale	52	240	No record	1	249
Sand	32	272	Well BH-81-06-403		
Well BH-81-06-209			Owner: City of Freeport Well 7 Driller: Layne-Texas Co.		
Owner: Shell Oil Co. Driller: Katy Drilling Co.			Surface soil	3	3
Surface clay	12	12	Clay, red	54	57
Sand	11	23	Clay, soft red	120	177
Clay	23	46	Clay, sticky red	29	206
			Sand, good water	24	230
			Shale	2	232

Table 8.—Drillers' Logs of Wells in Brazoria County--Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-81-06-403--Continued			Well BH-81-06-408--Continued		
Gravel and sand, coarse	15	247	Clay, red	20	23
Shale	2	249	Sand, fine red	17	40
Well BH-81-06-405			Clay, red and sand, fine red	36	76
Owner: City of Freeport Well 8 Driller: Layne-Texas Co.			Shale, gray	23	99
Topsoil	5	5	Sand, fine gray	12	111
Clay	119	124	Shale, gray	73	184
Sand and streaks of shale	14	138	Sand, good gray	33	217
Sand, fine white	12	150	Shale	7	224
Shale	65	125	Well BH-81-06-419		
Sand, coarse and gravel	35	250	Owner: Harbor Marine Terminal Driller: L. Patterson		
Well BH-81-06-406			Surface soil and clay	26	26
Owner: City of Freeport Well 6 Driller: Layne-Texas Co.			Shale	180	206
Surface soil	3	3	Sand, fine grain	7	213
Clay, red	54	57	Shale	67	280
Clay, soft red	120	177	Sand, fine	9	289
Clay, sticky red	29	206	Shale	89	378
Sand, good coarse	24	230	Sand, fine black gray	15	393
Shale	2	232	Well BH-81-06-501		
Sand, fine	15	247	Owner: Dow Chemical Co. Well 18 Driller: Layne-Texas Co.		
Shale	2	249	Rotary to ground	4	4
Well BH-81-06-407			Clay and sandy clay	57	61
Owner: Dow Chemical Company Obs. Well 6 Driller: Layne-Texas Co.			Shale	61	122
Silt	10	10	Shale and layers of shell	89	211
Clay, green	11	21	Shale, sandy	15	226
Clay, yellow and red	39	60	Shale, sandy	35	261
Clay, soft blue	70	130	Shale	12	273
Clay, brown	20	150	Well BH-81-06-502		
Clay, blue	63	213	Owner: Dow Chemical Co. Well 21 Driller: Layne-Texas Co.		
Sand	30	243	Surface fill	2	2
Clay	10	253	Clay, blue	20	22
Well BH-81-06-408			Clay, red and white	22	44
Owner: Dow Chemical Co. Obs. Well 1b Driller: Layne-Texas Co.			Clay, red	43	87
Soil, surface black	3	3	Clay, red	20	107
			Sand and clay breaks	20	127

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-81-06-502—Continued			Well BH-81-06-503—Continued		
Clay and sand layers	27	154	Shale	5	1,115
Shale, blue and shale, sandy	73	227	Sand and hard layers	65	1,180
Sand, good	11	238			
Shale and sandy shale	18	256	Well BH-81-06-505		
Shale and sand breaks	11	267	Owner: Dow Chemical Co. Obs. Well 2 Driller: Layne-Texas Co.		
Shale	6	273	Surface	4	4
Well BH-81-06-503			Clay, red	4	8
Owner: Dow Chemical Co. Driller: Layne-Texas Co.			Clay, gray	2	10
Surface, black soil	3	3	Clay, red	20	30
Clay, blue	14	17	Clay, gray	31	61
Clay, red	26	43	Clay, soft blue	10	71
Shale, red and blue	59	102	Clay, gray	10	81
Sand, white	62	164	Clay, blue	22	103
Shale, blue and pink	30	194	Clay, blue	17	120
Sand, light gray	25	219	Clay	8	128
Shale, blue	11	230	Sand	33	161
Sand, gray	16	246	Clay, gray	38	199
Sand	5	251	Clay, gray	41	240
Shale	86	337	Clay, gray	11	251
Shale, sandy and sand	33	370	Well BH-81-06-506		
Shale	25	395	Owner: Dow Chemical Co. Obs. Well 1 Driller: Layne-Texas Co.		
Sand, shale and sand	33	428	Clay, gray	10	10
Shale	62	490	Clay, gray	27	37
Shale, sandy and sand	30	520	Clay, gray	90	127
Shale	122	642	Clay, gray	3	130
Shale, sandy and sand	23	665	Clay	15	145
Shale	38	703	Clay	27	172
Shale and sandy shale	47	750	Clay, sandy	32	204
Sand	21	771	Sand	45	249
Shale with sandy breaks	40	811	Clay	10	259
Shale, sandy and sand	23	854	Well BH-81-06-507		
Shale	31	885	Owner: Dow Chemical Co. Well 1 Driller: Layne-Texas Co.		
Shale, sandy and shell	40	925	Mud and sand	8	8
Shale	19	944	Clay, soft red and blue	12	20
Sand and shale, sandy	62	1,006	Sand	15	35
Sand and shale breaks	104	1,110			

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-81-06-507—Continued			Well BH-81-06-509—Continued		
Clay, soft red	30	65	Sand with shale breaks	6	226
Clay	23	88	Gravel, good	37	263
Clay, hard blue and shells	49	137	Shale	10	273
Sand, fine gray	20	157			
Clay, soft	41	198			
Sand, gray	25	223			
Sand, coarse gray	12	235			
Clay	6	241			
Well BH-81-06-508			Well BH-81-06-510		
Owner: Dow Chemical Co. Well 2 Driller: Layne-Texas Co.			Owner: Dow Chemical Co. Well 5 Driller: Layne-Texas Co.		
Sand	48	48	Soil	2	2
Clay, soft and shell	30	78	Clay	15	17
Sand	13	91	Sand, white	16	33
Clay	20	111	Sand, layers of clay	46	79
Sand	15	126	Clay, blue	12	91
Clay, red and blue, streaks of sand	27	153	Sand, layers of clay	21	112
Clay, blue	33	186	Clay	10	122
Sand, fine grained gray	21	207	Sand, layers of clay	89	211
Clay, red	6	213	Sand and gravel	32	243
Sand	43	256	Clay	9	252
Clay	9	265			
Well BH-81-06-509			Well BH-81-06-515		
Owner: Dow Chemical Co. Well 4 Driller: Layne-Texas Co.			Owner: Dow Chemical Co. Driller: Layne-Texas Co.		
Sand	18	18	Clay, blue	26	26
Clay, soft	7	25	Sand, fine and clay	20	46
Clay, soft and sand	18	43	Clay, soft blue	30	76
Sand	22	65	Shale, soft blue	35	111
Clay, soft and streaks	44	109	Sand	55	166
Sand, fine blue and clay breaks	21	130	Shale, soft and sand, fine-grained	22	188
Sand, fine blue	31	161	Sand, good water	23	211
Clay and sand breaks	15	176	Shale, sandy	15	226
Clay, soft and layers of sand	16	192	Shale, good	18	244
Clay	5	197	Shale and sand layers	86	330
Clay, red and blue with layers of sand	23	220	Shale, sticky	15	345
			Shale, soft and some shell	12	357
			Shale, sticky	78	435
			Shale, soft	39	474
			Shale, soft and layers of sticky shale and little sand	153	627
			Sand and shale layers	27	654
			Sand, good	16	670

Table 8.—Drillers' Logs of Wells in Brazoria County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BH-81-06-515—Continued			Well BH-81-06-517—Continued		
Shale, sticky	12	682	Sand	35	253
Shale, sandy and sand, fine-grained and shale	55	737	Shale	33	286
Shale	12	749	Sand and sand layers	48	334
Shale, sticky	62	811	Shale, sticky	20	354
Shale, soft	60	871	Shale, soft	8	362
Sand	5	876	Shale, sticky	78	440
Shale, sticky and layers of sandy shale and some shell	78	954	Shale, soft sandy	35	475
Shale, sandy and sand	27	981	Shale	10	485
Sand, fine-grained	30	1,011	Sand	116	601
Sand, good water	64	1,075	Shale, sandy	10	611
Shale, sticky	21	1,096	Shale	37	648
Sand, good	39	1,135	Sand, good	10	658
Shale	2	1,137	Shale, soft	12	670
No record	1	1,138	Sand	15	685
			Shale, sandy	11	696
			Sand	27	723
			Shale	39	762
			Shale, sticky	32	794
			Shale, hard	10	804
			Shale, sticky	161	965
			Sand	165	1,130
Well BH-81-06-516			Well BH-81-06-519		
Owner: Dow Chemical Co. Driller: Layne-Texas Co.			Owner: Dow Chemical Co. Well 8 Driller: Layne-Texas Co.		
Fill	9	9	Sand, clay and fill	10	10
Clay, soft	8	17	Clay, yellow	101	111
Sand	15	32	Shale, sandy	20	131
Clay, soft	27	59	Shale, soft and shells	52	183
Clay	22	81	Shale, sticky	46	229
Clay, sticky	12	93	Sand, fine-grained	12	241
Clay, blue	57	150	Sand, coarse-grained	6	247
Sand and shell breaks	33	183	Clay, tough	16	263
Clay, soft	45	228			
Sand, fine gray	26	254			
Sand, coarse	10	264			
Clay	5	269			
Well BH-81-06-517			Well BH-81-06-521		
Owner: Dow Chemical Co. Well 12 Driller: Layne-Texas Co.			Owner: U.S. Army Driller: L. Patterson		
Sand and shell	36	36	Surface sand	24	24
Clay	11	47	Sand	22	46
Sand and fine sand	74	121	Shale	179	225
Sand layers	25	146	Sand	32	257
Shale, sandy	39	185			
Clay, blue	33	218			

**Table 9.—Water Levels in Wells in Brazoria County
(feet below land surface)**

DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)
Well BH-65-30-601		Well BH-65-30-601—Continued		Well BH-65-30-607—Continued	
Owner: C. H. Alexander		Dec. 11, 1957	141.58	Mar. 21, 1945	94.36
Mar. 11, 1947	83.62	Feb. 26, 1958	140.11	May 30, 1946	97.54
Dec. 15, 1947	89.93	Sept. 18, 1958	145.71	May 28, 1947	102.14
Feb. 5, 1948	89.94	Dec. 9, 1958	146.13	Feb. 5, 1948	106.00
Sept. 21, 1948	98.87	Feb. 18, 1959	142.55	Sept. 21, 1948	113.87
Dec. 14, 1948	97.76	Sept. 21, 1959	145.14	Dec. 14, 1948	112.50
Feb. 8, 1949	97.16	Dec. 21, 1959	143.52	Feb. 8, 1949	112.08
June 30, 1949	99.11	Feb. 9, 1960	142.11	Dec. 15, 1950	122.00
Sept. 20, 1949	104.50	Dec. 30, 1960	147.16	Feb. 21, 1951	121.40
Dec. 22, 1949	102.51	Feb. 8, 1961	145.36	Well BH-65-30-701	
Feb. 17, 1950	102.34	Sept. 18, 1961	150.04	Owner: Texaco Inc.	
June 12, 1950	103.15	Dec. 22, 1961	148.19	July 18, 1946	10.15
Sept. 27, 1950	108.81	Feb. 13, 1962	147.74	Jan. 4, 1949	11.19
Dec. 15, 1950	109.10	Dec. 12, 1962	154.84	Jan. 17, 1950	10.35
Feb. 21, 1951	108.91	Feb. 21, 1963	153.61	Aug. 29, 1950	10.78
June 13, 1951	114.95	Sept. 25, 1963	160.88	Feb. 5, 1951	12.12
Sept. 18, 1951	118.91	Dec. 16, 1963	160.16	Aug. 23, 1951	12.85
Dec. 13, 1951	116.39	Mar. 3, 1964	158.61	Jan. 14, 1952	13.13
Feb. 5, 1952	115.89	Dec. 11, 1964	166.62	Aug. 14, 1952	12.14
June 17, 1952	117.14	Feb. 16, 1965	165.53	July 22, 1953	12.13
Sept. 17, 1952	120.02	Sept. 20, 1965	170.12	Dec. 8, 1954	11.65
Dec. 30, 1952	123.51	Dec. 10, 1965	170.42	Aug. 11, 1954	12.50
Feb. 5, 1953	121.07	Feb. 21, 1966	170.03	Jan. 21, 1955	13.76
Sept. 28, 1953	128.99	Sept. 22, 1966	174.17	Aug. 19, 1955	14.02
Dec. 21, 1953	127.38	Dec. 16, 1966	174.62	Jan. 19, 1956	15.48
Feb. 18, 1954	127.12	Feb. 13, 1967	174.72	Aug. 2, 1956	15.56
Sept. 27, 1954	135.10	Dec. 13, 1967	183.19	Dec. 8, 1957	17.98
Dec. 17, 1954	134.72	Feb. 9, 1968	182.92	Aug. 12, 1957	17.03
Feb. 9, 1955	132.33	Well BH-65-30-607		Feb. 5, 1958	17.07
Sept. 21, 1955	137.13	Owner: Gulf Coast & S. F. R. R.		Aug. 7, 1958	20.23
Dec. 9, 1955	135.68	Apr. 16, 1931	47.50	Jan. 20, 1961	17.15
Feb. 16, 1956	134.18	Apr. 11, 1936	53.94	Aug. 14, 1961	15.42
Sept. 14, 1956	143.84	July 4, 1943	81.50	Jan. 19, 1962	14.74
Dec. 12, 1956	141.70	Aug. 6, 1943	84.77	Jan. 31, 1963	16.94
Feb. 20, 1957	140.08	Apr. 20, 1944	87.95	Jan. 21, 1964	18.04
Sept. 11, 1957	142.86	Dec. 11, 1944	94.28	Jan. 21, 1965	17.20

Table 9.—Water Levels in Wells in Brazoria County—Continued

DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)
Well BH-65-30-701—Continued					
Aug. 16, 1965	19.01	Jan. 4, 1949	9.18	Dec. 12, 1956	140.66
Jan. 20, 1966	21.30	Jan. 17, 1950	7.75	Feb. 20, 1957	138.78
Jan. 30, 1967	22.40	Aug. 29, 1950	9.30	Sept. 11, 1957	143.83
Aug. 10, 1967	18.53	Feb. 5, 1951	11.60	Dec. 11, 1957	140.32
Well BH-65-30-702					
Owner: Texaco Inc.					
July 18, 1946	3.60	Aug. 23, 1951	10.00	Feb. 26, 1958	138.81
Jan. 4, 1949	6.27	Jan. 14, 1952	10.50	Dec. 9, 1958	142.85
Aug. 18, 1949	5.26	Aug. 14, 1952	9.43	Feb. 18, 1959	140.77
Jan. 17, 1950	0.19	Jan. 16, 1953	9.36	Dec. 21, 1959	144.5 +
Aug. 29, 1950	6.91	Jan. 28, 1954	9.64	Feb. 19, 1960	142.79
Feb. 5, 1951	5.42	Aug. 19, 1955	12.02	Feb. 8, 1961	145.64
Aug. 23, 1951	8.60	Jan. 19, 1956	13.20	Feb. 13, 1962	148.30
Jan. 14, 1952	6.23	Jan. 28, 1957	14.55	Feb. 21, 1963	152.00
Aug. 14, 1952	6.86	Feb. 5, 1958	12.26	Mar. 3, 1964	155.73
July 22, 1953	6.48	Aug. 7, 1958	14.21	Feb. 16, 1965	159.71
Jan. 28, 1954	1.18	Aug. 14, 1959	12.37	Feb. 21, 1966	164.17
Aug. 11, 1954	4.72	July 22, 1960	12.88	Feb. 13, 1967	167.00
Jan. 21, 1955	5.64	Jan. 20, 1961	10.71	Well BH-65-30-902	
Aug. 19, 1955	7.16	Well BH-65-30-803		Owner: Pan American Petroleum Co.	
Jan. 19, 1956	6.08	Owner: Texaco Inc.		June 21, 1946	94.01
Aug. 2, 1956	7.84	July 19, 1946	102.31	Mar. 3, 1948	102.12
Jan. 28, 1957	7.81	Jan. 4, 1949	109.73	Jan. 3, 1949	107.98
Aug. 12, 1957	8.02	Aug. 18, 1949	110.88	Aug. 18, 1949	111.45
Well BH-65-30-706					
Owner: Texaco Inc.					
July 18, 1946	12.27	Jan. 17, 1950	112.64	Jan. 16, 1950	110.95
Jan. 4, 1949	12.88	Aug. 29, 1950	114.42	Aug. 21, 1950	116.51
Aug. 18, 1949	13.37	Feb. 5, 1951	118.35	Jan. 12, 1951	115.23
Jan. 17, 1950	12.08	Aug. 23, 1951	119.88	Aug. 24, 1951	123.00
Aug. 29, 1950	12.52	Well BH-65-30-901		Jan. 14, 1952	118.53
Feb. 5, 1951	13.83	Owner: C. H. Alexander		Jan. 15, 1953	120.86
Aug. 23, 1951	14.60	Sept. 27, 1954	142.93	July 22, 1953	125.91
Jan. 14, 1952	14.86	Dec. 17, 1954	133.70	Jan. 28, 1954	123.38
Well BH-65-30-801					
Owner: Midstates Oil Co.					
July 19, 1946	7.78	Feb. 9, 1955	131.83	Aug. 11, 1954	134.50
		Sept. 21, 1955	137.50	Jan. 21, 1955	128.79
		Dec. 9, 1955	136.25	Aug. 22, 1955	136.06
		Feb. 16, 1956	134.31	Jan. 19, 1956	131.28
		Sept. 14, 1956	144.34	Aug. 2, 1956	143.17
				Jan. 25, 1957	136.92

Table 9.—Water Levels in Wells in Brazoria County—Continued

DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)
Well BH-65-30-902—Continued		Well BH-65-31-704—Continued		Well BH-65-37-804—Continued	
Aug. 12, 1957	143.83	Jan. 31, 1963	147.7	Mar. 3, 1948	17.46
Feb. 5, 1958	137.31	Sept. 3, 1963	158.0	Dec. 31, 1948	18.86
Aug. 7, 1958	145.17	Jan. 21, 1964	152.9	Aug. 29, 1949	19.26
Aug. 14, 1959	147.06	Aug. 12, 1964	163.3	Jan. 25, 1950	19.37
Aug. 21, 1960	151.00	Jan. 21, 1965	158.8	Jan. 16, 1951	19.99
Jan. 20, 1961	145.39	Aug. 16, 1965	163.5	Well BH-65-37-805	
Aug. 14, 1961	153.73	Jan. 20, 1966	159.1	Owner: J. A. Fite	
Jan. 19, 1962	148.78	Aug. 11, 1966	165.2	July 31, 1946	24.40
Aug. 10, 1967	177.34	Jan. 30, 1967	163.1	Mar. 3, 1948	28.30
Well BH-65-31-704		Aug. 10, 1967	173.1	Dec. 31, 1948	31.83
Owner: Humble Oil & Refining Co.		Jan. 22, 1968	169.6	Jan. 25, 1950	34.64
July 1, 1946	89.8	Aug. 5, 1968	173.5	Well BH-65-38-201	
Jan. 3, 1949	104.0	Well BH-65-37-501		Owner: J. W. McCabe	
Aug. 13, 1949	107.6	Owner: C. Martin		July 19, 1946	58.48
Jan. 16, 1950	107.1	Apr. 10, 1931	7.92	Jan. 4, 1949	64.50
Aug. 21, 1950	113.0	May 22, 1939	17.36	Aug. 18, 1949	66.08
Jan. 12, 1951	111.5	July 31, 1946	23.00	Jan. 17, 1950	67.45
Aug. 24, 1951	119.6	Mar. 3, 1948	25.11	Aug. 29, 1950	68.82
Jan. 14, 1952	115.3	Dec. 31, 1948	28.04	Jan. 14, 1952	72.60
Jan. 15, 1953	117.8	Aug. 29, 1949	26.86	Aug. 14, 1952	73.86
July 22, 1953	123.2	Jan. 25, 1950	28.70	July 22, 1953	75.83
Jan. 28, 1954	120.7	Aug. 29, 1950	30.83	Jan. 28, 1954	76.77
Aug. 4, 1954	132.4	Jan. 16, 1951	30.59	Aug. 11, 1954	78.78
Jan. 21, 1955	125.4	Aug. 24, 1951	32.15	Aug. 19, 1955	80.98
Aug. 22, 1955	133.9	Jan. 14, 1952	32.38	Jan. 19, 1956	81.95
Jan. 19, 1956	129.2	Jan. 16, 1953	29.42	Aug. 2, 1956	83.74
Aug. 2, 1956	140.7	Jan. 28, 1954	31.87	Jan. 23, 1957	85.04
Jan. 25, 1957	133.5	Jan. 19, 1956	40.85	Aug. 12, 1957	85.72
Aug. 12, 1957	139.0	Aug. 2, 1956	41.15	Feb. 5, 1958	86.08
Feb. 5, 1958	133.7	Jan. 28, 1957	44.34	Aug. 7, 1958	87.26
Aug. 7, 1958	141.5	Aug. 8, 1957	40.55	Aug. 14, 1959	88.48
Aug. 21, 1959	144.0	Feb. 5, 1958	42.07	July 22, 1960	89.64
Aug. 21, 1960	148.1	Jan. 19, 1962	33.70	Jan. 20, 1961	90.27
Jan. 20, 1961	142.7	Well BH-65-37-804		Aug. 14, 1961	91.27
Aug. 14, 1961	149.1	Owner: Crown Central Petroleum Co.		Jan. 19, 1962	91.57
Jan. 19, 1962	144.3	July 31, 1946	17.01		
Aug. 16, 1962	154.1				

Table 9.—Water Levels in Wells in Brazoria County—Continued

DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)
Well BH-65-38-201—Continued		Well BH-65-38-301—Continued		Well BH-65-38-604—Continued	
Aug. 16, 1962	93.08	Jan. 19, 1962	101.82	Jan. 16, 1950	71.57
Jan. 31, 1963	93.05	Aug. 16, 1962	103.43	Aug. 30, 1950	71.46
Sept. 3, 1963	95.27	Jan. 31, 1963	104.02	Jan. 16, 1951	67.90
Jan. 21, 1964	95.15	Sept. 3, 1963	107.01	Aug. 23, 1951	74.75
Jan. 21, 1965	96.90	Jan. 21, 1964	106.32	Jan. 14, 1952	79.76
Aug. 16, 1965	98.35	Aug. 12, 1964	108.60	Jan. 15, 1953	61.48
Jan. 20, 1966	98.33	Jan. 21, 1965	108.71	July 22, 1953	52.40
Aug. 10, 1966	99.07	Aug. 16, 1965	110.79	Jan. 28, 1954	63.61
Jan. 30, 1967	99.82	Jan. 20, 1966	110.27	Well BH-65-39-401	
Aug. 10, 1967	101.59	Aug. 11, 1966	111.69	Owner: Gulf States Utilities	
Jan. 22, 1968	100.97	Jan. 30, 1967	111.24	Apr. 16, 1931	40.60
Aug. 5, 1968	103.49	Aug. 10, 1967	115.12	1933	42.50
Well BH-65-38-301		Jan. 22, 1968	113.99	Nov. 1939	67.5
Owner: Humble Oil & Refining Co.		Aug. 12, 1968	114.27	May 1946	98.0
July 1, 1946	65.41	Well BH-65-38-601		Well BH-65-43-402	
Jan. 3, 1949	74.00	Owner: Humble Oil & Refining Co.		Owner: Mrs. Will Schendel	
Aug. 18, 1949	75.79	Aug. 27, 1946	28.87	May 21, 1947	15.96
Jan. 16, 1950	77.04	Jan. 4, 1949	47.99	Mar. 4, 1948	20.68
Aug. 30, 1950	78.85	Aug. 19, 1949	48.28	Dec. 29, 1948	26.21
Jan. 12, 1951	81.95	Aug. 21, 1950	47.70	Jan. 30, 1950	23.30
Aug. 24, 1951	82.40	Jan. 12, 1951	47.29	Feb. 7, 1951	25.10
Jan. 14, 1952	83.31	Aug. 23, 1951	48.32	Jan. 31, 1967	45.99
Jan. 15, 1953	85.56	Jan. 11, 1952	48.43	Well BH-65-45-102	
July 22, 1953	86.64	Aug. 14, 1952	50.97	Owner: Otto Sens Club	
Jan. 28, 1954	86.72	Jan. 15, 1953	50.03	Jan. 30, 1961	49.89
Aug. 4, 1954	89.24	July 22, 1953	51.11	Jan. 26, 1962	49.58
Jan. 21, 1955	90.22	Jan. 29, 1954	50.21	Feb. 1, 1963	53.23
Aug. 22, 1955	91.80	Aug. 19, 1955	54.43	Feb. 3, 1964	55.70
Jan. 19, 1956	92.30	Jan. 30, 1956	55.42	Jan. 28, 1965	56.41
Aug. 2, 1956	93.29	Aug. 2, 1956	56.27	Jan. 26, 1966	56.03
Jan. 25, 1957	95.26	Aug. 12, 1957	57.92	Jan. 27, 1967	54.30
Aug. 12, 1957	95.25	Well BH-65-38-604		Well BH-65-45-103	
Feb. 5, 1958	95.31	Owner: Pan American Petroleum Co.		Owner: Otto Sens Club	
Aug. 7, 1958	97.97	June 21, 1946	67.19	May 22, 1939	9.87
Aug. 14, 1959	98.42	Jan. 3, 1949	73.01	July 31, 1946	19.07
Jan. 20, 1961	100.59	Aug. 18, 1949	73.21	Dec. 31, 1948	26.34
Aug. 14, 1961	101.09				

Table 9.—Water Level in Wells in Brazoria County—Continued

DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)
Well BH-65-45-103—Continued					
Aug. 29, 1949	28.85	Jan. 23, 1950	7.98	Sept. 3, 1952	27.98
Jan. 23, 1950	29.01	Aug. 29, 1950	8.13	Jan. 16, 1953	28.97
Aug. 29, 1950	31.33	Jan. 16, 1951	8.22	July 22, 1953	30.56
Jan. 16, 1951	31.99	Aug. 24, 1951	8.06	Jan. 28, 1954	32.36
Aug. 24, 1951	33.80	Jan. 14, 1952	7.89	Aug. 11, 1954	36.09
Jan. 14, 1952	35.12	Sept. 3, 1952	7.90	Jan. 21, 1955	37.92
Sept. 3, 1952	37.06	Jan. 16, 1953	7.89	Aug. 22, 1955	39.94
Jan. 16, 1953	38.20	July 22, 1953	7.82	Jan. 19, 1956	40.70
July 22, 1953	40.04	Jan. 28, 1954	8.16	Aug. 2, 1956	42.77
Jan. 28, 1954	41.86	Well BH-65-45-108		Jan. 28, 1957	45.05
Jan. 21, 1955	45.66	Owner: Otto Sens Club		Aug. 8, 1957	44.44
Aug. 26, 1955	49.99	July 31, 1946	4.50	Feb. 5, 1958	45.74
Jan. 19, 1956	50.60	Dec. 31, 1948	8.36	Aug. 11, 1958	47.46
Aug. 2, 1956	59.06	Aug. 29, 1949	5.50	Aug. 3, 1960	49.25
Jan. 28, 1957	55.76	Jan. 23, 1950	3.21	Jan. 30, 1961	49.51
Aug. 8, 1957	53.63	Aug. 29, 1950	6.64	Aug. 25, 1961	50.02
Feb. 5, 1958	54.66	Jan. 16, 1951	7.33	Jan. 19, 1962	50.11
Aug. 10, 1960	67.50	Aug. 24, 1951	10.75	Aug. 21, 1962	51.75
Jan. 30, 1961	58.40	Jan. 14, 1952	8.68	Feb. 1, 1963	52.05
Aug. 29, 1961	59.43	Sept. 3, 1952	9.60	Sept. 3, 1963	53.77
Jan. 26, 1962	59.14	Jan. 16, 1953	7.66	Jan. 31, 1964	48.80
Aug. 21, 1962	68.45	July 22, 1953	8.40	Jan. 28, 1965	58.25
Feb. 1, 1963	61.89	Jan. 28, 1954	4.56	Aug. 16, 1965	63.11
Sept. 3, 1963	71.12	Jan. 21, 1955	8.29	Jan. 26, 1966	62.04
Feb. 3, 1964	66.09	Aug. 26, 1955	12.58	Aug. 12, 1966	65.77
Jan. 28, 1965	69.40	Jan. 19, 1956	9.06	Jan. 27, 1967	63.58
Aug. 16, 1965	72.76	Jan. 30, 1961	3.60	Aug. 10, 1967	66.97
Jan. 26, 1966	73.00	Well BH-65-45-501		Jan. 31, 1968	70.20
Jan. 27, 1967	74.36	Owner: N. E. Selstad		Aug. 5, 1968	73.41
Jan. 31, 1968	80.77	Nov. 15, 1946	11.42	Well BH-65-45-502	
Owner: Otto Sens Club					
Owner: Dr. B. W. Turner					
Apr. 13, 1931	8.68	Dec. 31, 1948	17.60	Apr. 13, 1931	2.57
July 31, 1946	7.12	Jan. 23, 1950	19.89	Nov. 15, 1946	13.08
Dec. 31, 1948	7.10	Aug. 29, 1950	26.07	Dec. 31, 1948	18.23
Aug. 29, 1949	7.33	Jan. 16, 1951	23.31	Aug. 29, 1949	22.14
		Aug. 23, 1951	24.91	Feb. 8, 1967	55.50
		Jan. 14, 1952	26.08		

Table 9.—Water Levels in Wells in Brazoria County—Continued

DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)
Well BH-65-46-301		Well BH-65-46-502—Continued		Well BH-65-46-601—Continued	
Owner: Humble Oil & Refining Co.		Aug. 21, 1950	24.82	Jan. 20, 1966	8.97
July 30, 1946	22.88	Jan. 16, 1951	24.95	Jan. 25, 1967	8.58
Jan. 4, 1949	26.37	Aug. 23, 1951	28.33	Aug. 11, 1967	10.27
Jan. 17, 1950	30.27	Jan. 11, 1952	25.49	Well BH-65-46-701	
Aug. 21, 1950	29.00	Well BH-65-46-601		Owner: Humble Oil & Refining Co.	
Jan. 12, 1951	28.96	Owner: Pan American Petroleum Co.		July 29, 1946	1.06
Aug. 23, 1951	33.40	July 19, 1946	7.98	Mar. 3, 1948	7.40
Jan. 11, 1952	35.34	Jan. 3, 1949	7.20	Jan. 4, 1949	9.98
Aug. 14, 1952	39.05	Aug. 19, 1949	6.72	Aug. 29, 1949	8.39
July 22, 1953	41.46	Jan. 16, 1950	6.55	Jan. 17, 1950	3.02
Jan. 29, 1954	42.11	Aug. 21, 1950	6.85	Aug. 30, 1950	4.65
Aug. 4, 1954	47.72	Jan. 12, 1951	7.20	Jan. 15, 1951	4.23
Jan. 31, 1955	46.53	Aug. 23, 1951	8.10	Aug. 23, 1951	7.59
Aug. 19, 1955	44.94	Jan. 11, 1952	8.27	Jan. 11, 1952	8.98
Jan. 20, 1956	44.90	Aug. 14, 1952	7.80	Aug. 14, 1952	5.49
Aug. 3, 1956	45.64	Jan. 15, 1953	7.89	Jan. 15, 1953	6.46
Jan. 25, 1957	47.06	July 23, 1953	8.41	July 23, 1953	5.79
Aug. 12, 1957	48.01	Jan. 29, 1954	7.17	Jan. 29, 1954	4.03
Jan. 22, 1958	48.25	Aug. 4, 1954	8.71	Aug. 4, 1954	9.46
Aug. 8, 1958	50.80	Aug. 19, 1955	10.24	Jan. 31, 1955	10.37
Aug. 13, 1959	49.53	Jan. 20, 1956	10.23	Aug. 19, 1955	9.33
Aug. 26, 1960	50.74	Aug. 3, 1956	13.96	Jan. 20, 1956	8.38
Jan. 20, 1961	51.15	Jan. 25, 1957	14.61	Aug. 3, 1956	9.13
Aug. 14, 1961	51.90	Aug. 12, 1957	15.28	Jan. 25, 1957	13.15
Jan. 22, 1962	52.53	Jan. 22, 1958	14.55	Aug. 9, 1957	8.50
Aug. 15, 1962	52.89	Aug. 8, 1958	12.84	Jan. 22, 1958	7.04
Jan. 31, 1963	53.43	Aug. 13, 1959	9.94	Aug. 8, 1958	7.73
Feb. 3, 1964	55.08	Aug. 3, 1960	13.27	Aug. 13, 1959	5.70
Jan. 28, 1965	57.27	Jan. 23, 1961	8.53	Aug. 26, 1960	4.70
Jan. 26, 1966	58.05	Jan. 22, 1962	10.07	Jan. 23, 1961	4.31
Jan. 30, 1967	59.55	Aug. 15, 1962	10.14	Aug. 18, 1961	4.69
Well BH-65-46-502		Jan. 31, 1963	11.72	Jan. 22, 1962	4.39
Owner: W. G. Simpson		Aug. 27, 1963	9.54	Aug. 15, 1962	5.17
Aug. 29, 1946	13.78	Aug. 12, 1964	9.43	Feb. 1, 1963	4.64
Jan. 6, 1949	26.35	Jan. 28, 1965	9.10	Aug. 27, 1963	6.57
Aug. 19, 1949	25.58	Aug. 11, 1965	10.00	Feb. 3, 1964	4.46

Table 9.—Water Levels in Wells in Brazoria County—Continued

DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)
Well BH-65-46-701—Continued		Well BH-65-46-703		Well BH-65-46-801—Continued	
Aug. 12, 1964	5.31	Owner: Humble Oil & Refining Co.		Jan. 20, 1956	8.87
Jan. 21, 1965	5.51	July 29, 1946	2.39	Aug. 3, 1956	9.70
Aug. 16, 1965	6.04	Mar. 3, 1948	3.86	Jan. 25, 1957	13.28
Jan. 26, 1966	6.32	Jan. 4, 1949	6.62	Aug. 9, 1957	8.95
Aug. 15, 1966	5.12	Aug. 29, 1949	7.63	Jan. 22, 1958	7.57
Jan. 25, 1967	4.96	Jan. 17, 1950	2.32	Aug. 8, 1958	8.15
Aug. 11, 1967	5.28	Well BH-65-46-704		Aug. 26, 1960	5.01
Well BH-65-46-702		Owner: Humble Oil & Refining Co.		Jan. 23, 1961	4.15
Owner: Humble Oil & Refining Co.		July 29, 1946	+ 0.95	Aug. 18, 1961	4.03
July 29, 1946	26.76	Mar. 3, 1948	7.24	Jan. 22, 1962	3.95
Mar. 3, 1948	19.51	Jan. 4, 1949	9.62	Aug. 15, 1962	4.49
Jan. 4, 1949	26.65	Aug. 29, 1949	5.78	Feb. 1, 1963	5.05
Aug. 29, 1949	21.94	Jan. 17, 1950	0.80	Aug. 27, 1963	7.58
Jan. 17, 1950	21.60	Aug. 30, 1950	2.01	Feb. 3, 1964	5.98
Aug. 30, 1950	22.43	Jan. 15, 1951	1.83	Aug. 12, 1964	6.30
Jan. 15, 1951	23.48	Aug. 23, 1951	5.18	Jan. 21, 1965	6.41
Aug. 23, 1951	25.16	Jan. 15, 1953	4.57	Aug. 11, 1965	6.89
Jan. 11, 1952	28.79	Aug. 4, 1954	13.02	Jan. 20, 1966	7.38
Jan. 15, 1953	28.84	Aug. 3, 1956	13.54	Jan. 25, 1967	5.59
July 23, 1953	28.50	Aug. 9, 1957	13.04	Aug. 11, 1967	6.21
Jan. 29, 1954	26.35	Well BH-65-46-801		Well BH-65-46-802	
Aug. 4, 1954	25.98	Owner: Humble Oil & Refining Co.		Owner: Humble Oil & Refining Co.	
Jan. 31, 1955	25.19	July 29, 1946	1.89	Aug. 30, 1950	32.37
Jan. 20, 1956	25.35	Jan. 4, 1949	12.13	Jan. 15, 1951	33.17
Aug. 3, 1956	29.18	Aug. 29, 1949	8.38	Aug. 23, 1951	33.23
Jan. 25, 1957	28.61	Jan. 17, 1950	3.52	Jan. 11, 1952	35.40
Jan. 22, 1958	25.79	Aug. 30, 1950	4.63	Jan. 15, 1953	39.99
Aug. 13, 1959	26.12	Jan. 15, 1951	4.50	July 23, 1953	39.50
Jan. 22, 1962	35.99	Jan. 11, 1952	9.79	Jan. 29, 1954	34.67
Feb. 1, 1963	39.04	Aug. 14, 1952	6.52	Aug. 4, 1954	34.41
Feb. 3, 1964	43.99	Jan. 15, 1953	7.73	Jan. 31, 1955	33.52
Jan. 21, 1965	54.25	July 23, 1953	7.60	Jan. 20, 1956	35.10
Jan. 20, 1966	52.27	Jan. 29, 1954	4.71	Aug. 3, 1956	39.58
Jan. 25, 1967	41.64	Aug. 4, 1954	10.48	Jan. 25, 1957	36.02
		Aug. 19, 1955	10.84	Aug. 9, 1957	33.82

Table 9.—Water Levels in Wells in Brazoria County—Continued

DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)
Well BH-65-46-802—Continued		Well BH-65-46-805—Continued		Well BH-65-47-106	
Jan. 22, 1958	33.01	Jan. 11, 1952	31.84	Owner: Phillips Petroleum Co.	
Aug. 8, 1958	33.24	Aug. 14, 1952	32.69	Jan. 3, 1949	72.10
Aug. 13, 1959	33.15	Jan. 15, 1953	35.65	Aug. 1, 1949	73.40
Jan. 23, 1961	55.73	July 23, 1953	35.08	Aug. 21, 1950	71.19
Aug. 18, 1961	50.88	Jan. 31, 1955	29.51	Jan. 12, 1951	76.98
Jan. 22, 1962	45.74	Aug. 19, 1955	30.40	Aug. 23, 1951	75.32
Feb. 1, 1963	46.70	Jan. 20, 1956	31.00	Jan. 11, 1952	87.98
Aug. 27, 1963	63.33	Aug. 3, 1956	35.93	Aug. 14, 1952	90.19
Feb. 3, 1964	51.62	Aug. 9, 1957	31.88	Jan. 15, 1953	87.65
Aug. 12, 1964	72.21	Jan. 22, 1958	29.19	Jan. 29, 1954	88.78
Jan. 21, 1965	66.16	Well BH-65-46-806		Jan. 31, 1955	91.59
Well BH-65-46-803		Owner: Humble Oil & Refining Co.		Jan. 20, 1956	92.18
Owner: Humble Oil & Refining Co.		July 29, 1946	2.85	Jan. 25, 1957	102.84
July 29, 1946	2.48	Jan. 4, 1949	11.92	Jan. 22, 1958	98.24
Jan. 4, 1949	12.13	Aug. 30, 1950	6.13	Well BH-65-47-201	
Aug. 29, 1949	8.72	Jan. 15, 1951	5.83	Owner: Texaco Inc.	
Jan. 17, 1950	6.02	Jan. 11, 1952	8.96	Jan. 12, 1951	77.04
Aug. 30, 1950	6.33	Well BH-65-47-105		Jan. 11, 1952	80.22
Jan. 15, 1951	6.45	Owner: Clyde F. Herring		July 23, 1953	84.80
Aug. 23, 1951	9.05	Aug. 2, 1946	46.27	Jan. 20, 1956	87.57
Jan. 11, 1952	9.49	Mar. 3, 1948	50.06	Aug. 3, 1956	91.80
Aug. 14, 1952	9.73	Jan. 3, 1949	52.34	Jan. 25, 1957	91.03
Jan. 15, 1953	11.78	Aug. 19, 1949	53.08	Aug. 12, 1957	93.55
Jan. 29, 1954	7.43	Jan. 16, 1950	53.57	Jan. 22, 1958	90.33
Aug. 4, 1954	14.95	Aug. 21, 1950	55.48	Aug. 8, 1958	94.07
Jan. 31, 1955	18.54	Jan. 12, 1951	55.54	Aug. 13, 1959	94.62
Jan. 20, 1956	11.06	Aug. 23, 1951	56.75	July 22, 1960	97.62
Jan. 25, 1957	14.47	Jan. 11, 1952	59.70	Jan. 23, 1961	93.55
Aug. 8, 1958	9.98	Jan. 15, 1953	62.44	Jan. 22, 1962	94.71
Aug. 13, 1959	8.58	July 23, 1953	64.46	Aug. 15, 1962	97.86
Well BH-65-46-805		Jan. 29, 1954	64.89	Feb. 1, 1963	95.85
Owner: Humble Oil & Refining Co.		Aug. 4, 1954	66.73	Aug. 27, 1963	100.16
July 29, 1946	29.86	Aug. 19, 1955	69.24	Feb. 3, 1964	97.62
Jan. 4, 1949	34.35	Jan. 20, 1956	69.71	Jan. 21, 1965	99.40
Jan. 17, 1950	27.07	Aug. 3, 1956	71.24	Aug. 11, 1965	103.48
Jan. 15, 1951	28.91	Jan. 25, 1957	73.24	Jan. 20, 1966	100.55

Table 9.—Water Levels in Wells in Brazoria County—Continued

DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)
Well BH-65-47-201—Continued		Well BH-65-47-401—Continued		Well BH-65-50-504—Continued	
Aug. 15, 1966	103.82	Aug. 15, 1966	86.47	Aug. 25, 1961	33.07
Jan. 25, 1967	102.72	Jan. 25, 1967	85.61	Jan. 31, 1962	30.04
Aug. 11, 1967	106.94	Aug. 11, 1967	86.96	Aug. 17, 1962	34.92
Well BH-65-47-401		Jan. 22, 1968	87.76	Jan. 29, 1963	31.95
Owner: Phillips Petroleum Co.		Aug. 5, 1968	88.49	Aug. 29, 1963	41.71
July 25, 1946	24.80	Well BH-65-47-501		Jan. 23, 1964	36.47
Jan. 3, 1949	30.87	Owner: Texaco Inc.		Aug. 13, 1964	47.41
Aug. 19, 1949	31.55	Apr. 1945	55.00	Jan. 27, 1965	40.13
Jan. 16, 1950	32.29	July 18, 1946	73.33	Aug. 12, 1965	46.57
Aug. 21, 1950	33.46	Jan. 3, 1949	79.75	Jan. 21, 1966	42.11
Jan. 12, 1951	33.76	Aug. 19, 1949	73.33	Aug. 16, 1966	51.65
Aug. 23, 1951	47.44	Jan. 16, 1950	79.95	Jan. 27, 1967	42.49
Jan. 11, 1952	56.57	Well BH-65-50-504		Well BH-65-50-505	
Aug. 14, 1952	60.72	Owner: Humble Oil & Refining Co.		Owner: Humble Oil & Refining Co.	
Jan. 15, 1953	61.39	Nov. 7, 1946	9.61	Nov. 7, 1946	8.58
July 23, 1953	64.72	Jan. 5, 1949	14.09	Jan. 5, 1949	12.86
Jan. 29, 1954	62.83	Aug. 24, 1949	14.83	Aug. 24, 1949	13.48
Aug. 4, 1954	67.81	Jan. 20, 1950	13.21	Jan. 20, 1950	13.34
Jan. 31, 1955	67.40	Aug. 24, 1950	14.66	Aug. 24, 1950	13.88
Aug. 19, 1955	71.33	Feb. 6, 1951	15.30	Feb. 6, 1951	14.65
Jan. 20, 1956	67.34	Aug. 21, 1951	17.36	Aug. 21, 1951	16.21
Aug. 3, 1956	68.19	Jan. 9, 1952	17.80	Jan. 9, 1952	17.09
Jan. 25, 1957	71.70	Aug. 13, 1952	19.15	Aug. 13, 1952	17.95
Aug. 12, 1957	71.26	Jan. 14, 1953	19.35	Jan. 14, 1953	18.67
Jan. 22, 1958	72.31	July 24, 1953	20.40	July 24, 1953	19.05
Aug. 13, 1959	71.92	Jan. 26, 1954	19.95	Jan. 26, 1954	19.09
Aug. 26, 1960	73.49	Aug. 10, 1954	20.13	Aug. 10, 1954	26.58
Jan. 23, 1961	72.50	Jan. 28, 1955	25.02	Jan. 28, 1955	22.95
Jan. 22, 1962	72.99	Aug. 24, 1955	28.27	Aug. 24, 1955	24.52
Aug. 15, 1962	73.01	Jan. 25, 1956	28.74	Jan. 25, 1956	25.44
Jan. 31, 1963	72.78	Aug. 9, 1956	34.18	Aug. 9, 1956	28.16
Aug. 27, 1963	73.02	Jan. 31, 1957	33.14	Jan. 31, 1957	29.83
Feb. 3, 1964	73.32	Aug. 7, 1957	34.25	Aug. 7, 1957	29.41
Jan. 21, 1965	78.30	Jan. 30, 1958	31.30	Jan. 30, 1958	29.71
Aug. 11, 1965	83.80	Aug. 14, 1958	37.72	Aug. 14, 1958	31.09
Jan. 20, 1966	84.71	Jan. 30, 1961	30.09	Jan. 30, 1961	29.22

Table 9.—Water Levels in Wells in Brazoria County—Continued

DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)
Well BH-65-50-505—Continued		Well BH-65-50-602—Continued		Well BH-65-50-801—Continued	
Aug. 25, 1961	28.17	Jan. 30, 1961	28.09	Aug. 13, 1964	45.20
Jan. 31, 1962	28.49	Aug. 25, 1961	28.79	Jan. 27, 1965	39.11
Aug. 17, 1962	28.19	Jan. 31, 1962	27.09	Aug. 12, 1965	45.77
Jan. 29, 1963	29.66	Aug. 17, 1962	30.77	Jan. 21, 1966	40.37
Aug. 29, 1963	33.79	Jan. 29, 1963	28.56	Jan. 27, 1967	43.22
Jan. 23, 1964	33.87	Aug. 29, 1963	37.01	Aug. 14, 1967	44.76
Aug. 13, 1964	36.40	Jan. 25, 1964	29.97		
Jan. 27, 1965	36.16	June 6, 1967	51.48	Well BH-65-50-802	
Aug. 12, 1965	36.88			Owner: Humble Oil & Refining Co.	
Jan. 21, 1966	38.29	Well BH-65-50-801		Nov. 7, 1946	9.82
Aug. 16, 1966	37.90	Owner: Humble Oil & Refining Co.		Jan. 5, 1949	12.88
Jan. 27, 1967	40.13	Nov. 1, 1946	5.08	Aug. 24, 1949	13.86
Aug. 14, 1967	45.82	Jan. 5, 1949	9.94	Jan. 20, 1950	13.06
Jan. 26, 1968	43.41	Aug. 24, 1949	10.81	Aug. 24, 1950	14.20
Aug. 6, 1968	41.49	Jan. 20, 1950	10.75	Dec. 6, 1951	14.76
		Aug. 24, 1950	11.17	Aug. 21, 1951	16.43
Well BH-65-50-602		Feb. 66, 1951	12.97	Jan. 9, 1952	17.13
Owner: Humble Et Al		Aug. 21, 1951	15.18	Aug. 13, 1952	18.38
Jan. 5, 1949	11.65	Jan. 9, 1952	14.19	Jan. 14, 1953	18.58
Aug. 24, 1949	12.40	July 24, 1953	18.89	July 24, 1953	19.85
Jan. 20, 1950	11.92	Jan. 26, 1954	19.14	Jan. 26, 1954	20.97
Aug. 24, 1950	13.10	Jan. 28, 1955	25.20	Aug. 10, 1954	22.01
Feb. 6, 1951	13.50	Aug. 24, 1955	28.09	Jan. 28, 1955	23.44
Aug. 21, 1951	15.03	Jan. 25, 1956	27.71	Aug. 24, 1955	24.32
Jan. 9, 1952	15.97	Aug. 9, 1956	32.93	Jan. 25, 1956	24.76
Aug. 13, 1952	15.91	Jan. 31, 1957	32.09	Aug. 9, 1956	27.79
Jan. 14, 1953	17.59	Aug. 7, 1957	33.27	Jan. 31, 1957	28.49
July 24, 1953	18.21	Jan. 30, 1958	30.24	Aug. 7, 1957	28.83
Jan. 26, 1954	18.12	Aug. 14, 1958	41.31	Jan. 30, 1958	28.07
Aug. 10, 1954	20.71	Jan. 30, 1961	28.71	Aug. 14, 1958	31.33
Jan. 28, 1955	21.66	Aug. 25, 1961	35.31	Jan. 30, 1961	34.87
Aug. 24, 1955	23.42	Jan. 31, 1962	30.14	Jan. 31, 1962	25.60
Jan. 25, 1956	24.69	Aug. 17, 1962	36.42	Aug. 17, 1962	27.92
Aug. 9, 1956	27.14	Jan. 29, 1963	31.95	Jan. 23, 1964	30.53
Jan. 31, 1957	28.30	Aug. 29, 1963	40.03	Aug. 13, 1964	36.03
Jan. 30, 1958	28.53	Jan. 23, 1964	35.46	Aug. 14, 1967	51.69
Aug. 14, 1958	31.41				

Table 9.—Water Levels in Wells in Brazoria County—Continued

DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)
Well BH-65-50-803		Well BH-65-51-807		Well BH-65-52-904	
Owner: Humble Oil & Refining Co.		Owner: R. R. Farmer		Owner: Nichel's Lease	
Nov. 7, 1946	4.16	Oct. 21, 1936	+ 8.00	Oct. 16, 1946	13.19
Jan. 5, 1949	8.87	Nov. 7, 1946	15.24	Mar. 3, 1948	14.58
Aug. 24, 1949	9.75	Jan. 5, 1949	18.00	Jan. 5, 1949	15.95
Jan. 20, 1950	9.91	Aug. 24, 1949	18.06	Aug. 24, 1949	15.96
Aug. 24, 1950	11.52	Jan. 20, 1950	17.50	Jan. 20, 1950	15.71
Feb. 6, 1951	12.13	Aug. 24, 1950	19.18	Aug. 24, 1950	15.88
Aug. 21, 1951	14.20	Feb. 6, 1951	19.53	Feb. 5, 1951	15.66
Jan. 9, 1952	14.45	Aug. 21, 1951	20.18	Aug. 22, 1951	16.22
Aug. 13, 1952	14.90	Jan. 9, 1952	20.17	Jan. 10, 1952	16.78
Jan. 14, 1953	16.46	Aug. 13, 1952	21.26		
July 24, 1953	17.84	Jan. 14, 1953	21.01	Well BH-65-53-201	
Jan. 26, 1954	18.04	July 24, 1953	18.06	Owner: Rucks & Enloe	
Aug. 10, 1954	23.31	Jan. 27, 1954	17.54	Mar. 3, 1948	17.92
Jan. 28, 1955	23.79	Aug. 10, 1954	19.88	Dec. 31, 1948	13.72
Aug. 24, 1955	26.25	Jan. 28, 1955	22.19	Aug. 29, 1949	13.50
Jan. 25, 1956	26.37	Jan. 25, 1956	24.37	Jan. 23, 1950	15.35
Aug. 19, 1956	30.66	Jan. 31, 1957	28.48	Aug. 30, 1950	19.37
Jan. 31, 1957	30.23	Jan. 30, 1958	28.98	Jan. 1951	20.20
Aug. 7, 1957	31.08			Aug. 22, 1951	20.66
Jan. 30, 1958	30.12	Well BH-65-51-901		Jan. 10, 1952	18.24
Aug. 14, 1958	37.14	Owner: City of West Columbia		Aug. 13, 1952	21.37
Jan. 25, 1961	29.48	Oct. 15, 1946	8.31	July 23, 1953	27.79
Aug. 25, 1961	33.48	Aug. 24, 1949	11.85	Jan. 27, 1954	30.03
Jan. 31, 1962	29.19	Jan. 20, 1950	12.10	Aug. 11, 1954	38.01
Aug. 17, 1962	35.91	Aug. 24, 1950	14.55	Jan. 31, 1955	37.10
Jan. 29, 1963	30.80	Jan. 10, 1952	18.44	Aug. 22, 1955	43.75
Aug. 29, 1963	37.82	Jan. 14, 1953	20.22	Jan. 19, 1956	44.75
Jan. 23, 1964	34.30	Jan. 27, 1954	19.45	Aug. 9, 1956	52.88
Aug. 13, 1964	42.17	Jan. 28, 1955	25.00	Jan. 28, 1957	48.59
Jan. 27, 1965	36.51	Jan. 25, 1956	26.62	Aug. 8, 1957	60.53
Aug. 12, 1965	44.33	Jan. 31, 1957	27.15	Feb. 5, 1958	54.00
Jan. 21, 1966	40.22	Jan. 30, 1958	31.38	Aug. 11, 1958	61.63
Jan. 27, 1967	42.77	July 25, 1960	33.2	Aug. 14, 1959	61.90
Aug. 14, 1967	51.51	May 26, 1967	43.90	Aug. 3, 1960	62.69
Aug. 28, 1967	55.13			Jan. 30, 1961	60.63

Table 9.—Water Levels in Wells in Brazoria County—Continued

DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)
Well BH-65-53-201—Continued		Well BH-65-53-504		Well BH-65-53-504—Continued	
Aug. 18, 1961	64.56	Owner: Humble Oil & Refining Co.		Jan. 27, 1967	56.64
Jan. 26, 1962	69.92	Oct. 7, 1946	13.19	Aug. 14, 1967	71.19
Aug. 21, 1962	77.10	Mar. 3, 1948	15.80	Well BH-65-53-505	
Jan. 29, 1963	66.87	Dec. 31, 1948	17.96	Owner: Humble Oil & Refining Co.	
Aug. 27, 1963	79.79	Aug. 29, 1949	18.64	Mar. 3, 1948	17.10
Jan. 31, 1964	70.07	Jan. 23, 1950	18.14	Dec. 31, 1948	12.99
Aug. 12, 1964	79.83	Aug. 30, 1950	20.41	Jan. 23, 1950	14.73
Jan. 28, 1965	75.66	Jan. 16, 1951	21.33	Jan. 16, 1951	19.60
Aug. 16, 1965	83.31	Aug. 22, 1951	23.97	Aug. 22, 1951	19.88
Jan. 25, 1966	72.13	Jan. 10, 1952	24.02	Jan. 10, 1952	17.51
Aug. 16, 1966	79.60	Aug. 13, 1952	26.88	Aug. 13, 1952	20.97
Jan. 27, 1967	79.96	Jan. 14, 1953	25.45	July 23, 1953	28.65
Aug. 14, 1967	73.75	July 23, 1953	27.18	Jan. 27, 1954	32.96
Jan. 22, 1968	71.69	Jan. 27, 1954	25.78	Aug. 11, 1954	43.27
Well BH-65-53-202		Aug. 11, 1954	28.94	Jan. 31, 1955	41.69
Owner: Humble Oil & Refining Co.		Jan. 31, 1955	29.43	Aug. 22, 1955	49.91
Oct. 7, 1946	8.84	Aug. 22, 1955	30.59	Jan. 19, 1956	47.60
Mar. 3, 1948	15.89	Jan. 19, 1956	31.12	Aug. 9, 1956	60.91
Dec. 31, 1948	11.75	Aug. 9, 1956	33.18	Jan. 28, 1957	51.86
Aug. 29, 1949	11.46	Jan. 28, 1957	34.39	Aug. 8, 1957	71.49
Jan. 23, 1950	13.19	Aug. 8, 1957	34.04	Jan. 30, 1958	60.43
Aug. 29, 1950	15.22	Jan. 30, 1958	35.79	Aug. 11, 1958	71.26
Jan. 16, 1951	16.62	Aug. 11, 1958	37.70	Aug. 14, 1959	70.70
Aug. 22, 1951	17.41	Aug. 14, 1959	37.79	Aug. 3, 1960	71.62
Aug. 13, 1952	18.39	Aug. 3, 1960	41.94	Jan. 30, 1961	66.77
Jan. 14, 1953	25.10	Jan. 30, 1961	43.77	Aug. 18, 1961	72.78
July 23, 1953	20.60	Aug. 18, 1961	43.89	Jan. 26, 1962	78.87
Jan. 27, 1954	20.81	Jan. 26, 1962	43.52	Aug. 21, 1962	90.16
Aug. 11, 1954	24.83	Aug. 21, 1962	46.47	Jan. 29, 1963	88.23
Jan. 31, 1955	24.51	Jan. 29, 1963	46.41	Aug. 27, 1963	91.49
Aug. 22, 1955	28.64	Aug. 27, 1963	48.42	Jan. 31, 1964	90.80
Jan. 19, 1956	30.85	Jan. 31, 1964	47.91	Aug. 12, 1964	90.31
Aug. 9, 1956	34.00	Aug. 12, 1964	50.28	Jan. 28, 1965	83.73
Jan. 28, 1957	43.82	Jan. 28, 1965	50.89	Aug. 16, 1965	94.72
Aug. 8, 1957	27.48	Aug. 16, 1965	54.80	Jan. 25, 1966	79.56
		Jan. 25, 1966	56.02		

Table 9.—Water Levels in Wells in Brazoria County—Continued

DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)					
Well BH-65-53-505—Continued			Well BH-65-53-803			Well BH-65-54-407—Continued				
Aug. 16, 1966	89.82	Owner: City of Angleton Well 2		Jan. 15, 1951	38.02					
Jan. 27, 1967	89.90	Oct. 10, 1946	15.26	Jan. 11, 1952	40.46					
Aug. 14, 1967	80.58	Aug. 26, 1949	17.34	Jan. 15, 1953	41.70					
Jan. 31, 1968	75.40	Jan. 23, 1950	18.24	Jan. 29, 1954	42.53					
Aug. 5, 1968	76.17	Aug. 29, 1950	18.02	Jan. 31, 1955	44.56					
Well BH-65-53-604			Jan. 25, 1951	18.36	Jan. 20, 1956	45.52				
Owner: Ed Bieri			Aug. 23, 1951	18.94	Jan. 25, 1957	49.74				
Nov. 14, 1946	5.73	Well BH-65-53-804			Jan. 22, 1957	48.38				
Mar. 3, 1948	5.41	Owner: City of Angleton Well 4			Aug. 8, 1958	49.76				
Jan. 5, 1949	9.62	Nov. 6, 1944	21	Aug. 9, 1960	51.80					
Jan. 17, 1950	6.59	Oct. 1946	20	Jan. 23, 1961	49.46					
Aug. 30, 1950	11.23	Aug. 26, 1949	37.00	Jan. 22, 1962	44.56					
Jan. 15, 1951	10.44	Jan. 23, 1950	32.18	Feb. 1, 1963	53.52					
Jan. 11, 1952	10.18	Jan. 25, 1951	37.80	Aug. 27, 1963	54.70					
Aug. 14, 1952	9.67	Aug. 23, 1951	43.64	Feb. 3, 1964	55.07					
Jan. 15, 1953	8.20	Jan. 10, 1952	43.2	Aug. 12, 1964	56.89					
Feb. 13, 1967	5.44	Jan. 27, 1954	42.44	Jan. 28, 1965	56.33					
Well BH-65-53-702			Sept. 5, 1967	65.82	Aug. 11, 1965	57.26				
Owner: McCarthy Oil & Gas			Well BH-65-54-403			Jan. 26, 1966	57.68			
Mar. 3, 1948	8.70	Owner: Watson Bros.			Aug. 15, 1966	58.75				
Jan. 5, 1949	10.09	Aug. 12, 1960	19.96	Jan. 25, 1967	58.89					
Jan. 20, 1950	10.35	Jan. 23, 1961	4.78	Well BH-65-58-607						
Aug. 24, 1950	11.96	Jan. 22, 1962	4.04	Owner: Phillips Petroleum Co.						
Feb. 5, 1951	13.89	Feb. 1, 1963	5.53	Obs. Well 3						
Jan. 10, 1952	15.56	Jan. 26, 1966	6.00	Nov. 17, 1947	20.85					
Jan. 14, 1953	16.30	Jan. 25, 1967	5.04	Mar. 23, 1948	19.69					
July 24, 1953	18.52	Feb. 13, 1967	4.98	Oct. 19, 1948	32.80					
Jan. 27, 1954	18.29	Jan. 22, 1968	5.63	Mar. 18, 1949	31.27					
Aug. 11, 1954	22.17	Well BH-65-54-407			Sept. 20, 1949	30.56				
Jan. 28, 1955	22.08	Owner: J. M. Skrabanek			Jan. 19, 1950	15.50				
Aug. 26, 1955	24.32	Aug. 28, 1946	31.25	Jan. 4, 1951	32.24					
Jan. 25, 1956	23.86	Mar. 3, 1948	33.96	Jan. 26, 1951	34.47					
Aug. 9, 1956	26.23	Jan. 5, 1949	36.70	Aug. 22, 1951	47.31					
Jan. 31, 1957	26.57	Aug. 26, 1949	38.19	Jan. 9, 1952	50.21					
Aug. 8, 1957	29.41	Jan. 17, 1950	36.96	Aug. 12, 1952	52.64					
Jan. 20, 1958	28.27	Aug. 30, 1950	39.49	Jan. 13, 1953	25.44					
						Jan. 26, 1954	39.88			

Table 9.—Water Levels in Wells in Brazoria County—Continued

DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)
Well BH-65-58-607—Continued		Well BH-65-58-608—Continued		Well BH-65-59-410—Continued	
Aug. 18, 1954	47.13	Jan. 28, 1955	54.93	Dec. 7, 1948	32.72
Nov. 8, 1954	39.13	Mar. 7, 1955	50.34	Jan. 4, 1949	25.78
Mar. 7, 1955	49.81	Nov. 7, 1955	54.10	Feb. 16, 1949	31.80
Nov. 7, 1955	54.54	Mar. 5, 1956	54.40	Mar. 18, 1949	31.73
Mar. 5, 1956	54.94	July 30, 1956	68.90	May 27, 1949	29.14
Sept. 10, 1956	61.30	Well BH-65-58-619		June 24, 1949	30.66
Mar. 25, 1957	46.88	Owner: Phillips Petroleum Co. Well 12		Aug. 17, 1949	31.16
Oct. 7, 1957	53.74	Apr. 2, 1957	46.00	Aug. 23, 1949	32.27
Sept. 12, 1960	38.61	Oct. 7, 1957	49.24	Sept. 20, 1949	30.49
Jan. 2, 1961	17.53	Jan. 27, 1958	36.20	Oct. 26, 1949	17.17
Mar. 13, 1961	27.12	Apr. 4, 1960	45.07	Nov. 22, 1949	29.52
Oct. 2, 1961	31.06	Sept. 12, 1960	41.10	Jan. 19, 1950	15.03
Apr. 2, 1962	31.30	Jan. 2, 1961	27.13	Apr. 12, 1950	28.13
Aug. 6, 1962	43.90	Mar. 13, 1961	28.56	May 19, 1950	28.10
Mar. 4, 1963	33.59	June 5, 1961	33.38	July 17, 1950	32.30
Aug. 26, 1963	59.67	Dec. 25, 1961	35.25	Aug. 23, 1950	29.24
Mar. 14, 1964	53.02	Apr. 8, 1962	36.28	Jan. 4, 1951	33.90
Dec. 1964	44	Aug. 6, 1962	40.60	Jan. 26, 1951	37.51
Feb. 1965	42	Mar. 4, 1963	37.25	Aug. 22, 1951	51.06
Sept. 1965	65	Jan. 17, 1966	43.00	Jan. 9, 1952	52.44
Feb. 1966	39	Well BH-65-59-410		Aug. 12, 1952	55.74
Sept. 1966	42	Owner: Phillips Petroleum Co.		Dec. 31, 1952	25.90
Feb. 1967	50	Obs. Well 2		Jan. 13, 1953	36.63
Sept. 1967	58	Jan. 8, 1943	12.1	Oct. 25, 1954	31.48
Well BH-65-58-608		June 29, 1944	32.6	Nov. 8, 1954	42.48
Owner: Phillips Petroleum Co. Well 2		Aug. 29, 1944	25.0	Jan. 10, 1955	46.08
Sept. 29, 1943	30	Dec. 15, 1944	34.4	Mar. 7, 1955	53.97
July 20, 1944	43	Nov. 5, 1946	10.16	May 2, 1955	65.42
Nov. 5, 1946	10.03	Nov. 17, 1947	24.15	July 18, 1955	58.60
Nov. 17, 1947	21.13	Mar. 1, 1948	21.78	Nov. 7, 1955	59.14
Jan. 4, 1951	34.40	Apr. 1948	15.52	Jan. 25, 1956	45.52
Jan. 9, 1952	54.06	June 2, 1948	30.84	Mar. 5, 1956	60.16
Aug. 12, 1952	56.20	July 15, 1948	31.57	July 30, 1956	69.22
Dec. 31, 1952	40.62	Sept. 24, 1948	31.66	Dec. 10, 1956	65.66
Jan. 13, 1953	30.11	Oct. 19, 1948	32.83	Mar. 25, 1957	48.20
Jan. 26, 1954	40.13	Nov. 12, 1948	33.63	Mar. 28, 1960	57.24

Table 9.—Water Levels in Wells in Brazoria County—Continued

DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)
Well BH-65-59-410—Continued		Well BH-65-59-411—Continued		Well BH-65-59-411—Continued	
Sept. 12, 1960	50.78	Dec. 7, 1948	37.5	Sept. 10, 1956	61.0
Jan. 2, 1961	28.10	Jan. 4, 1949	26.5	Dec. 10, 1956	65.2
Mar. 13, 1961	36.86	Feb. 16, 1949	38.9	Jan. 30, 1957	65.9
June 5, 1961	44.52	Mar. 18, 1949	34.8	Mar. 25, 1957	47.0
Oct. 2, 1961	40.46	June 25, 1949	31.0	June 17, 1957	56.4
Dec. 25, 1961	44.08	July 24, 1949	34.6	Aug. 5, 1957	66.1
Apr. 2, 1962	49.42	Aug. 17, 1949	34.9	Oct. 7, 1957	55.7
Aug. 6, 1962	56.37	Aug. 23, 1949	35.9	Jan. 27, 1958	42.5
Mar. 4, 1963	45.28	Sept. 20, 1949	34.0	Jan. 30, 1958	38.5
Aug. 26, 1963	63.06	Oct. 20, 1949	16.8	Aug. 13, 1958	54.0
Dec. 1963	54	Nov. 22, 1949	33.6	Mar. 28, 1960	51.3
Mar. 14, 1964	51	Apr. 12, 1950	27.2	Sept. 12, 1960	40.0
June 1964	63	May 19, 1950	27.9	Jan. 2, 1961	27.7
Sept. 1964	62	July 17, 1950	36.2	Jan. 25, 1961	31.2
Dec. 1964	51	Aug. 23, 1950	29.9	Mar. 13, 1961	30.7
Mar. 1965	49	Jan. 4, 1951	37.1	Aug. 25, 1961	34.6
June 1965	55	Jan. 26, 1951	38.8	Oct. 2, 1961	33.5
Feb. 1966	44	Aug. 22, 1951	50.4	Dec. 25, 1961	36.0
Sept. 1966	51	Jan. 9, 1952	49.9	Jan. 31, 1962	38.0
Feb. 1967	55	Aug. 12, 1952	48.9	Apr. 2, 1962	39.0
Sept. 1967	63	Dec. 31, 1952	32.3	Aug. 6, 1962	45.3
Well BH-65-59-411		Jan. 13, 1953	20.5	Jan. 29, 1963	25.4
Owner: Phillips Petroleum Co. Obs. Well 1		Aug. 18, 1954	33.4	Mar. 4, 1963	35.3
Oct. 1942	12.0	Sept. 15, 1954	30.2	Aug. 26, 1963	47.9
June 29, 1944	31.4	Nov. 8, 1954	22.0	Jan. 23, 1964	41.7
Aug. 29, 1944	35.0	Jan. 10, 1955	22.2	Mar. 14, 1964	39.6
Dec. 15, 1944	35.0	Jan. 28, 1955	29.2	Aug. 13, 1964	44.8
Nov. 5, 1946	9.6	Mar. 7, 1955	26.7	Jan. 27, 1965	39.0
Nov. 17, 1947	20.7	May 2, 1955	26.6	Aug. 12, 1965	45.7
Mar. 1, 1948	23.5	July 18, 1955	28.0	Jan. 20, 1966	33.1
Apr. 1948	15.4	Aug. 24, 1955	24.6	Aug. 16, 1966	39.3
June 2, 1948	33.7	Nov. 7, 1955	25.2	Jan. 26, 1967	40.3
July 15, 1948	36.0	Jan. 25, 1956	22.8	Aug. 14, 1967	50.2
Sept. 24, 1948	36.0	Mar. 5, 1956	62.3	Well BH-65-59-413	
Oct. 19, 1948	37.0	July 30, 1956	69.4	Owner: Phillips Petroleum Co. Well 6b	
Nov. 12, 1948	38.1	Aug. 8, 1956	64.4	Dec. 31, 1952	42.0

Table 9.—Water Levels in Wells in Brazoria County—Continued

DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)
Well BH-65-59-413—Continued					
Jan. 13, 1953	26.16	Aug. 13, 1958	30.62	Sept. 24, 1948	47.75
Jan. 26, 1954	47.48	Jan. 25, 1961	16.54	Oct. 19, 1948	48.88
Nov. 8, 1954	38.0	Aug. 25, 1961	24.28	Nov. 12, 1948	49.85
Aug. 6, 1957	75.29	Jan. 31, 1962	29.71	Dec. 7, 1948	49.63
Jan. 30, 1958	43.58	Aug. 17, 1962	30.85	Jan. 4, 1949	24.43
Aug. 13, 1958	51.60	Jan. 29, 1963	28.33	Feb. 16, 1949	50.12
Jan. 25, 1961	29.18	Jan. 23, 1964	36.41	Mar. 18, 1949	48.22
Aug. 25, 1961	48.21	Aug. 13, 1964	40.01	May 27, 1949	42.39
Jan. 31, 1962	53.50	Jan. 27, 1965	37.28	June 24, 1949	45.70
Aug. 17, 1962	54.76	Aug. 12, 1965	43.62	Aug. 17, 1949	46.11
Jan. 29, 1963	50.44	Jan. 21, 1966	28.73	Aug. 23, 1949	46.27
Aug. 29, 1963	56.30	Aug. 16, 1966	36.17	Sept. 20, 1949	44.69
Jan. 23, 1964	61.53	Jan. 26, 1967	38.61	Oct. 26, 1949	15.71
Aug. 13, 1964	65.82	Aug. 14, 1967	44.50	Jan. 19, 1950	13.09
Jan. 27, 1965	60.31	Well BH-65-59-415		Aug. 23, 1950	29.51
Aug. 12, 1965	67.94	Owner: Phillips Petroleum Co. Well 4		Jan. 4, 1951	52.31
Jan. 20, 1966	41.51	Jan. 15, 1946	10.97	Jan. 26, 1951	52.44
Aug. 16, 1966	55.62	June 2, 1948	80.60	Aug. 22, 1951	78.94
Jan. 26, 1967	59.81	July 15, 1948	65.85	Jan. 9, 1952	81.50
Aug. 14, 1967	70.24	Jan. 5, 1949	61.20	Aug. 12, 1952	81.00
Well BH-65-59-414		Mar. 18, 1949	33.62	Dec. 31, 1952	36.24
Owner: Phillips Petroleum Co. Well 6a		Aug. 23, 1949	61.42	Jan. 13, 1953	23.09
Jan. 9, 1952	38.44	Jan. 19, 1950	17.01	Nov. 8, 1954	42.44
Aug. 12, 1952	32.22	Aug. 23, 1950	77.68	Dec. 27, 1954	44.96
Dec. 31, 1952	24.57	Jan. 5, 1951	79.60	Jan. 25, 1956	49.54
Jan. 13, 1953	16.34	Jan. 26, 1951	33.14	Well BH-65-59-418	
July 28, 1953	33.99	Jan. 9, 1952	49.26	Owner: Phillips Petroleum Co. Well 3	
Jan. 26, 1954	26.02	Dec. 31, 1952	42.5	Sept. 29, 1943	24.50
Aug. 10, 1954	34.82	Jan. 13, 1953	27.41	May 10, 1944	11.50
Jan. 28, 1955	35.80	Well BH-65-59-417		Nov. 5, 1946	7.92
Aug. 24, 1955	33.49	Owner: Phillips Petroleum Co. Well 1		Nov. 17, 1947	17.45
Jan. 25, 1956	31.71	Nov. 5, 1946	6.56	Mar. 23, 1948	15.81
Aug. 8, 1956	35.36	Nov. 17, 1947	48.97	Apr. 1948	13.04
Jan. 30, 1957	40.09	Apr. 1948	12.28	Dec. 7, 1948	35.68
Aug. 6, 1957	40.71	June 2, 1948	45.20	Jan. 4, 1949	24.67
Jan. 30, 1958	27.07	July 15, 1948	48.06	Jan. 19, 1950	13.07

Table 9.—Water Levels in Wells in Brazoria County—Continued

DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)
Well BH-65-59-422		Well BH-65-59-501—Continued		Well BH-65-61-106	
Owner: Phillips Petroleum Co. Well 6		Jan. 26, 1967	10.13	Owner: Texas Department of Corrections	
July 15, 1948	20.23	Aug. 14, 1967	13.73	Nov. 8, 1946	4.16
Sept. 24, 1948	20.81	Well BH-65-59-502		Jan. 6, 1949	8.79
May 27, 1949	18.94	Owner: Texaco Inc.		Aug. 24, 1949	10.13
June 24, 1949	21.14	Jan. 6, 1949	3.10	Jan. 23, 1950	8.99
Aug. 17, 1949	12.51	Aug. 23, 1949	4.67	Aug. 24, 1950	10.28
Aug. 22, 1949	11.95	Jan. 19, 1950	4.72	Jan. 16, 1951	11.77
Sept. 20, 1949	10.13	Aug. 23, 1950	6.41	Aug. 22, 1951	12.40
Well BH-65-59-501		Feb. 6, 1951	5.02	Jan. 10, 1952	13.39
Owner: Pan American Petroleum Co.		Aug. 21, 1951	5.72	Aug. 13, 1952	15.14
Aug. 23, 1950	12.35	Jan. 10, 1952	7.15	Jan. 14, 1953	15.14
Feb. 6, 1951	14.43	Aug. 12, 1952	8.24	July 28, 1953	16.43
Aug. 21, 1951	15.50	Jan. 13, 1953	8.35	Aug. 11, 1954	19.80
Jan. 10, 1952	16.03	July 28, 1953	10.32	Jan. 28, 1955	21.06
Aug. 12, 1952	15.60	Jan. 26, 1954	8.85	Aug. 26, 1955	23.05
Jan. 13, 1953	16.09	Aug. 10, 1954	10.84	Jan. 30, 1956	22.90
July 28, 1953	17.13	Jan. 28, 1955	11.26	Aug. 9, 1956	25.18
Jan. 26, 1954	14.96	Aug. 24, 1955	13.24	Jan. 28, 1957	25.90
Aug. 10, 1954	17.24	Jan. 25, 1956	13.90	Aug. 7, 1957	26.08
Jan. 28, 1955	17.57	Well BH-65-59-901		Feb. 5, 1958	27.16
Aug. 24, 1955	18.03	Owner: Peerless Carbon		Aug. 21, 1959	29.52
Jan. 25, 1956	18.39	Nov. 5, 1946	10.4	July 27, 1960	30.04
Aug. 8, 1956	19.50	Jan. 6, 1949	14.70	Jan. 23, 1961	29.84
Jan. 30, 1957	20.19	Aug. 23, 1949	14.91	Aug. 25, 1961	31.60
Aug. 6, 1957	18.76	Jan. 19, 1950	11.00	Jan. 25, 1962	31.22
Feb. 4, 1958	17.42	Aug. 23, 1950	11.90	Aug. 17, 1962	33.62
Aug. 13, 1958	18.52	Feb. 6, 1951	14.38	Jan. 28, 1963	35.24
Jan. 30, 1961	16.71	Aug. 21, 1951	15.47	Feb. 3, 1964	36.02
Jan. 31, 1962	11.82	Jan. 10, 1952	16.12	Well BH-65-61-801	
Aug. 17, 1962	13.59	Aug. 12, 1952	15.54	Owner: City of Lake Jackson Well 5	
Jan. 28, 1963	11.51	Jan. 13, 1953	16.10	July 1956	52
Jan. 23, 1964	12.29	Aug. 28, 1953	16.15	Jan. 31, 1957	43.42
Aug. 13, 1964	13.77	Jan. 26, 1954	15.98	Aug. 7, 1957	46.03
Jan. 29, 1965	12.52	Jan. 28, 1955	18.15	Feb. 5, 1958	39.82
Aug. 12, 1965	15.42	Jan. 26, 1956	19.68	Jan. 28, 1963	42.00
Jan. 21, 1966	13.77	Jan. 30, 1957	21.00	Jan. 31, 1964	44.58
		Feb. 4, 1958	18.05		

Table 9.—Water Levels in Wells in Brazoria County—Continued

DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)
Well BH-65-61-801—Continued		Well BH-65-61-805—Continued		Well BH 65-61-806—Continued	
Jan. 26, 1965	56.91	Aug. 9, 1956	49.63	Mar. 1956	45.2
Jan. 26, 1966	62.23	Jan. 31, 1957	45.13	Apr. 1956	44.8
Jan. 26, 1967	58.34	Aug. 7, 1957	46.93	May 1956	43.1
Well BH-65-61-802		Jan. 27, 1958	30.78	June 6, 1956	49.5
Owner: City of Lake Jackson Well 6		Jan. 27, 1961	40.0	July 30, 1956	48.80
Jan. 27, 1961	38.20	Jan. 26, 1962	30.3	Sept. 5, 1956	49.2
Jan. 26, 1962	42.61	Jan. 26, 1967	46.22	Nov. 6, 1956	53.7
Jan. 31, 1964	48.63	Well BH-65-61-806		Dec. 5, 1956	53.5
Jan. 26, 1965	57.58	Owner: Dow Chemical Co. Obs. Well 10		Jan. 4, 1957	49.3
Jan. 26, 1966	57.80	Dec. 28, 1953	37.38	Feb. 4, 1957	50.0
Jan. 26, 1967	57.29	Jan. 4, 1954	39.75	Mar. 4, 1957	48.7
Well BH-65-61-804		Jan. 18, 1954	34.8	Apr. 3, 1957	47.6
Owner: City of Lake Jackson Well 3		Jan. 25, 1954	34.5	Apr. 26, 1957	47.2
Aug. 24, 1949	24.95	Feb. 3, 1954	34.5	July 2, 1957	47.75
Jan. 20, 1950	21.98	May 4, 1954	36.24	Aug. 1, 1957	47.1
Jan. 25, 1951	24.54	May 31, 1954	36.4	Sept. 1957	51.0
Jan. 8, 1952	31.54	July 9, 1954	41.5	Oct. 1957	48.9
Nov. 2, 1952	30	Aug. 11, 1954	43.37	Nov. 1957	47.1
Jan. 27, 1954	36.33	Sept. 10, 1954	40.8	Dec. 1957	44.9
Jan. 19, 1955	38.5	Oct. 8, 1954	41.5	Jan. 1958	44.1
Feb. 5, 1958	40.51	Nov. 8, 1954	41.4	Feb. 28, 1958	43.1
Jan. 28, 1963	36.2	Dec. 3, 1954	39.8	Mar. 1958	43.3
Jan. 31, 1964	37.4	Jan. 13, 1955	39.6	Apr. 1958	42.9
Jan. 26, 1966	36.5	Feb. 4, 1955	39.1	May 1958	44.6
Jan. 26, 1967	38.83	Mar. 8, 1955	37.5	June 1958	42.8
Well BH-65-61-805		Apr. 7, 1955	38.4	July 1958	43.4
Owner: City of Lake Jackson Well 2		May 10, 1955	43.7	Sept. 1958	47.7
July 8, 1943	27.50	June 8, 1955	43.7	Jan. 1959	44.6
Aug. 24, 1949	39.45	July 13, 1955	44.1	Sept. 1959	37.2
Jan. 20, 1950	34.8	Aug. 11, 1955	43.3	Jan. 1960	35.1
Aug. 24, 1950	20.50	Sept. 9, 1955	43.6	Sept. 1960	37.3
Jan. 25, 1951	22.91	Oct. 4, 1955	43.4	Jan. 1961	33.6
Aug. 20, 1951	32.06	Nov. 4, 1955	43.0	Feb. 1961	33.2
Jan. 8, 1952	62.50	Dec. 8, 1955	43.3	Mar. 1961	33.4
Nov. 2, 1952	35.5	Jan. 18, 1956	43.1	Apr. 1961	33.0
Jan. 19, 1955	37.5	Feb. 1956	46.0	June 6, 1961	33.7

Table 9.—Water Levels in Wells in Brazoria County—Continued

DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)			
Well BH-65-61-806—Continued			Well BH-65-61-806—Continued			Well BH-81-03-901—Continued		
July 27, 1961	32.66	Sept. 1964	42.1	Aug. 23, 1950	3.35			
Aug. 1961	32.17	Oct. 1964	42.4	Jan. 26, 1951	5.49			
Sept. 1961	32.58	Dec. 1964	38.8	Aug. 21, 1951	7.68			
Nov. 1961	32.4	Jan. 29, 1965	39.1	Jan. 9, 1952	6.97			
Dec. 1961	33.0	June 2, 1965	41.3	Aug. 12, 1952	6.88			
Jan. 1962	36.0	Oct. 25, 1965	42.7	Jan. 13, 1953	6.81			
Feb. 1962	33.6	Mar. 30, 1966	37.8	July 28, 1953	5.43			
Mar. 1962	34.0	July 29, 1966	40.7	Jan. 26, 1954	5.72			
Apr. 1962	33.2	Jan. 31, 1967	39.9	Jan. 27, 1955	8.00			
May 1962	34.5	June 29, 1967	46.2	Jan. 26, 1956	9.03			
June 1962	34.7	Aug. 24, 1967	44.1	Aug. 8, 1956	10.61			
July 1962	35.8	Dec. 28, 1967	42.4	Aug. 6, 1957	11.22			
Aug. 1962	37.3	Feb. 23, 1968	41.0	Feb. 4, 1958	5.56			
Sept. 1962	37.8	June 26, 1968	40.6	Jan. 30, 1961	3.54			
Oct. 1962	37.8	July 30, 1968	42.6	Well BH-81-04-302				
Nov. 27, 1962	37.1	Well BH-65-61-807		Owner: Texas Department of Corrections				
Dec. 31, 1962	37.0	Owner: City of Lake Jackson Well 1		1942	40			
Jan. 28, 1963	40.1	Sept. 12, 1942	32	Nov. 14, 1946	47.89			
Feb. 26, 1963	38.4	Aug. 23, 1949	30.54	Jan. 6, 1949	45.90			
Mar. 25, 1963	37.6	Jan. 20, 1950	15.60	Aug. 23, 1949	47.47			
Apr. 25, 1963	38.1	Aug. 24, 1950	22.78	Well BH-81-04-701				
May 31, 1963	38.8	Jan. 25, 1951	21.95	Owner: J. L. Ducroz				
June 27, 1963	40.0	Aug. 20, 1951	29.94	Jan. 6, 1949	3.70			
July 30, 1963	40.3	Jan. 8, 1952	28.46	Jan. 19, 1950	6.39			
Aug. 29, 1963	41.0	Aug. 13, 1952	30.45	Aug. 23, 1950	10.46			
Sept. 30, 1963	40.9	Jan. 14, 1953	29.36	Jan. 26, 1951	12.02			
Oct. 30, 1963	41.1	July 27, 1953	33.75	Jan. 9, 1952	13.6			
Nov. 27, 1963	40.1	Jan. 27, 1954	29.60	Aug. 12, 1952	14.2			
Dec. 31, 1963	42.1	Jan. 19, 1955	35.6	Jan. 13, 1953	16.18			
Jan. 1964	40.9	Jan. 26, 1956	40.44	July 28, 1953	6.22			
Feb. 1964	40.0	Aug. 7, 1957	47.68	Jan. 26, 1954	7.80			
Mar. 1964	39.3	Well BH-81-03-901		Aug. 10, 1954	9.02			
Apr. 1964	40.4	Owner: Craig Estate		Jan. 27, 1955	9.42			
June 1964	42.8	Jan. 6, 1949	5.60	Jan. 26, 1956	14.79			
July 1964	41.7	Aug. 23, 1949	6.95	Aug. 8, 1956	16.0			
Aug. 1964	41.5	Jan. 19, 1950	3.88	Jan. 30, 1957	11.44			

Table 9.—Water Levels in Wells in Brazoria County—Continued

DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)
Well BH-81-04-701—Continued		Well BH-81-05-602—Continued		Well BH-81-05-602—Continued	
Aug. 6, 1957	12.50	Sept. 10, 1954	131.2	Nov. 1957	131.4
Feb. 4, 1958	17.0	Oct. 8, 1954	132.4	Dec. 1957	129.5
Well BH-81-04-702		Nov. 8, 1954	121.2	Jan. 1958	123.2
Owner: J. L. Ducroz		Dec. 3, 1954	130.1	Feb. 28, 1958	126.2
May 18, 1937	+ 3.78	Jan. 13, 1955	134.2	Mar. 1958	119.1
Jan. 6, 1949	19.74	Feb. 4, 1955	132.3	Apr. 1958	124.2
Jan. 19, 1950	21.56	Mar. 8, 1955	134.8	May 1958	120.6
Aug. 23, 1950	23.34	Apr. 7, 1955	124.4	June 1958	130.6
Jan. 26, 1951	23.45	May 10, 1955	127.1	July 1958	134.1
Aug. 21, 1951	24.09	June 8, 1955	142.2	Sept. 1958	131.4
Jan. 9, 1952	21.48	July 13, 1955	145.8	Jan. 1959	119.4
Aug. 12, 1952	21.78	Aug. 11, 1955	159.9	Sept. 1959	123.4
Jan. 13, 1953	21.46	Sept. 9, 1955	155.7	Jan. 1960	115.5
July 28, 1953	22.10	Oct. 4, 1955	174.6	Sept. 1960	123.2
Jan. 26, 1956	31.12	Nov. 4, 1955	182.8	Jan. 1961	103.3
Well BH-81-04-803		Dec. 8, 1955	184.2	Feb. 1961	102.3
Owner: T. J. Poole		Jan. 18, 1956	180.5	Mar. 1961	103.6
Jan. 6, 1949	3.22	Feb. 7, 1956	165.5	Apr. 1961	108.2
Aug. 23, 1949	9.05	Mar. 2, 1956	158.3	May 1961	111.2
Jan. 19, 1950	2.28	Apr. 4, 1956	145.1	June 30, 1961	108.0
Aug. 23, 1950	1.59	May 1, 1956	136.1	July 27, 1961	104.6
Jan. 26, 1951	3.36	June 6, 1956	141.8	Aug. 1961	106.3
Aug. 21, 1951	4.30	July 30, 1956	141.9	Oct. 1961	102.7
Jan. 9, 1952	4.09	Sept. 5, 1956	149.5	Nov. 1961	98.0
July 28, 1953	5.34	Nov. 6, 1956	151.7	Dec. 1961	95.5
Well BH-81-05-602		Dec. 5, 1956	148.4	Jan. 1962	101.6
Owner: Dow Chemical Co. Obs. Well 13		Jan. 4, 1957	146.3	Feb. 1962	99.4
Dec. 18, 1953	119.50	Feb. 4, 1957	163.5	Mar. 1962	98.8
Jan. 4, 1954	121.0	Mar. 4, 1957	154.2	Apr. 1962	95.8
Jan. 18, 1954	118.9	Apr. 3, 1957	152.3	May 1962	109.5
Jan. 25, 1954	117.7	Apr. 26, 1957	154.5	June 1962	117.2
Feb. 3, 1954	122.9	June 4, 1957	152.0	July 1962	128.3
May 4, 1954	125.01	July 2, 1957	150.0	Aug. 29, 1962	125.6
May 31, 1954	130.1	Aug. 1, 1957	147.3	Sept. 27, 1962	121.6
July 9, 1954	138.8	Sept. 1957	138.4	Oct. 25, 1962	122.4
Aug. 9, 1954	135.24	Oct. 1957	131.4	Nov. 27, 1962	116.8

Table 9.—Water Levels in Wells in Brazoria County—Continued

DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)			
Well BH-81-05-602—Continued			Well BH-81-05-602—Continued			Well BH-81-06-104—Continued		
Dec. 31, 1962	116.9	Apr. 28, 1966	143.2	Jan. 18, 1950	115.28			
Jan. 28, 1963	127.0	Jan. 29, 1967	160.5	Aug. 22, 1950	118.75			
Feb. 26, 1963	126.1	Well BH-81-06-101			Jan. 25, 1951	118.85		
Mar. 25, 1963	117.9	Owner: City of Freeport Well 3			Aug. 21, 1951	135.60		
Apr. 25, 1963	118.3	Jan. 12, 1953	114.54	Aug. 11, 1952	131.98			
May 26, 1963	121.7	Jan. 25, 1954	104.89	Well BH-81-06-403				
June 27, 1963	125.3	Jan. 26, 1955	121.23	Owner: City of Freeport Well 7				
July 29, 1963	128.4	Aug. 6, 1957	84.15	Aug. 22, 1949	115.94			
Aug. 29, 1963	128.0	Jan. 27, 1961	101.5	Jan. 18, 1950	118.50			
Sept. 30, 1963	131.3	Jan. 28, 1964	108.30	Aug. 22, 1950	118.04			
Oct. 30, 1963	122.2	Jan. 26, 1965	123.6	Jan. 25, 1951	124.07			
Nov. 27, 1963	108.4	Jan. 25, 1966	127	July 20, 1951	136.60			
Dec. 31, 1963	106.3	Jan. 23, 1967	146.47	Aug. 21, 1951	141.40			
Jan. 1964	111.2	Well BH-81-06-102			Jan. 8, 1952	129.28		
Feb. 1964	123.1	Owner: City of Freeport Well 4			Aug. 11, 1952	135.47		
Mar. 1964	122.4	Jan. 26, 1955	117.00	Jan. 12, 1953	125.81			
Apr. 1964	126.1	Jan. 27, 1961	125.00	July 27, 1953	138.00			
June 1964	129.5	Jan. 23, 1967	146.05	Jan. 27, 1954	114.83			
July 1964	120.9	Jan. 23, 1967	146.05	Aug. 9, 1954	129.57			
Aug. 1964	121.5	Well BH-81-06-103			Jan. 26, 1955	123.74		
Sept. 1964	121.3	Owner: City of Freeport Well 2			Aug. 23, 1955	145.96		
Oct. 1964	132.6	Feb. 19, 1946	93.5	Jan. 26, 1956	152.64			
Dec. 1964	133.8	Oct. 11, 1946	97.47	Aug. 8, 1956	130.55			
Jan. 29, 1965	126.3	Aug. 22, 1949	103.76	Jan. 29, 1957	137.21			
Feb. 26, 1965	127.4	Jan. 18, 1950	106.33	Aug. 6, 1957	137.17			
Mar. 29, 1965	129.5	Aug. 22, 1950	109.51	Feb. 4, 1958	111.44			
Apr. 29, 1965	137.3	Aug. 21, 1951	129.50	Aug. 12, 1958	132.94			
June 29, 1965	137.4	Aug. 12, 1952	122.80	Jan. 27, 1961	88.90			
July 29, 1965	137.6	Jan. 12, 1953	124.36	Jan. 25, 1962	86.79			
Aug. 31, 1965	145.5	Jan. 12, 1953	124.36	Aug. 13, 1965	132.79			
Sept. 30, 1965	140.1	Jan. 25, 1954	110.00	Jan. 25, 1966	129.86			
Oct. 25, 1965	132.0	Well BH-81-06-104			Aug. 11, 1966	143.40		
Nov. 26, 1965	127.2	Owner: City of Freeport Well 1			Jan. 23, 1967	137.55		
Dec. 29, 1965	129.5	Aug. 30, 1941	84	Well BH-81-06-405				
Jan. 26, 1966	131.3	Oct. 11, 1946	101.30	Owner: City of Freeport Well 8				
Feb. 28, 1966	143.4	Aug. 22, 1949	110.23	Aug. 22, 1949	100.20			

Table 9.—Water Levels in Wells in Brazoria County—Continued

DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)
Well BH-81-06-405—Continued		Well BH-81-06-406—Continued		Well BH-81-06-407—Continued	
Jan. 18, 1950	102.80	July 28, 1954	134.60	May 1962	94.3
Aug. 22, 1950	113.33	Aug. 9, 1954	140.15	Sept. 27, 1962	105.2
Jan. 25, 1951	105.70	Jan. 26, 1955	126.09	May 31, 1963	105.2
Aug. 10, 1951	123.50	Aug. 23, 1955	154.78	Sept. 30, 1963	113.0
Aug. 11, 1952	133.30	Jan. 26, 1956	156.18	May 1964	109.2
Jan. 12, 1953	122.36	Aug. 8, 1956	134.19	Sept. 1964	113.9
July 27, 1953	128.63	Jan. 29, 1957	143.60	June 2, 1965	118.4
Jan. 27, 1954	116.03	Aug. 6, 1957	131.12	Oct. 25, 1965	123.8
July 28, 1954	127.5	Feb. 4, 1958	122.92	May 31, 1966	126.8
Aug. 9, 1954	115.22	Aug. 12, 1958	141.33	Sept. 30, 1966	137.4
Aug. 23, 1955	125.15	Jan. 27, 1961	99.08	May 31, 1967	136.2
Aug. 8, 1956	123.96	Jan. 25, 1962	102.98	Sept. 28, 1967	151.5
Jan. 29, 1957	124.45	Jan. 23, 1963	124.2	Well BH-81-06-408	
Aug. 6, 1957	131.58	Jan. 28, 1964	122.04	Owner: Dow Chemical Co. Obs Well 7b	
Feb. 4, 1958	101.29	Jan. 26, 1965	125.59	Feb. 4, 1958	114.2
Aug. 12, 1958	116.10	Jan. 25, 1966	130.30	Sept. 1958	117.1
Jan. 22, 1963	122.3	Jan. 23, 1967	140.90	Jan. 1959	107.5
Jan. 28, 1964	100.56	Jan. 23, 1968	151.8	Sept. 1959	108.1
Jan. 26, 1965	109.78	Well BH-81-06-407		Jan. 1960	99.8
Jan. 25, 1966	130	Owner: Dow Chemical Co. Obs Well 6		Sept. 1960	112.7
Jan. 23, 1967	136.56	Dec. 28, 1953	111.4	May 1960	97.4
Well BH-81-06-406		May 4, 1954	115.6	Oct. 1960	92.8
Owner: City of Freeport Well 6		Aug. 9, 1954	121.2	May 1962	95.1
June 27, 1941	58.5	May 10, 1955	112.5	Sept. 27, 1962	109.2
Oct. 26, 1946	112.9	Aug. 11, 1955	119.3	May 26, 1963	104.3
Aug. 22, 1949	118.01	May 1956	126	Sept. 30, 1963	118.3
Jan. 18, 1950	122.10	Sept. 5, 1956	132.5	June 1964	118.1
Aug. 22, 1950	121.03	Apr. 26, 1957	134.3	Sept. 1964	115.3
Jan. 25, 1951	128.73	Sept. 1957	127.5	June 2, 1965	118.3
Aug. 10, 1951	145.50	May 1958	107.8	Oct. 25, 1965	123.3
Aug. 21, 1951	146.00	Jan. 1959	101.8	May 31, 1966	128.2
Jan. 8, 1952	132.65	Sept. 1959	105.7	Sept. 30, 1966	139.0
Aug. 11, 1952	136.27	Jan. 1960	97.5	July 17, 1967	146.4
Jan. 12, 1953	129.95	Sept. 1960	109.0	Oct. 31, 1967	146.7
July 27, 1953	140.14	May 1961	97.5		
Jan. 27, 1954	117.66	Oct. 1961	93.2		

Table 9.—Water Levels in Wells in Brazoria County—Continued

DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)	DATE	WATER LEVEL (FT)
Well BH-81-06-413		Well BH-81-06-413—Continued		Well BH-81-06-506	
Owner: Dow Chemical Co. Obs. Well 3		June 29, 1967	145.5	Owner: Dow Chemical Co. Obs. Well 1	
Dec. 28, 1953	111.2	Oct. 31, 1967	137.5	Dec. 28, 1953	113.2
May 4, 1954	107.9	Well BH-81-06-505		June 5, 1954	113.6
Oct. 13, 1954	106.7	Owner: Dow Chemical Co. Obs. Well 2		Oct. 13, 1954	103.0
May 3, 1955	101.9	Dec. 28, 1953	108.54	Mar. 2, 1955	105.6
Sept. 14, 1955	132.0	May 4, 1954	103.35	Oct. 14, 1955	126.7
Nov. 14, 1955	135.1	Oct. 13, 1954	101.04	May 1956	112.5
Dec. 12, 1955	137.3	Feb. 5, 1955	99.79	Oct. 17, 1956	118.1
Jan. 17, 1956	134.5	Oct. 14, 1955	126.18	May 1957	115.5
Aug. 13, 1956	124.6	Aug. 13, 1956	114.2	Sept. 1957	116.0
Nov. 13, 1956	125.1	Oct. 17, 1956	111.4	May 1958	97.9
Dec. 6, 1956	123.6	Feb. 1957	122.0	Sept. 1958	102.2
Jan. 7, 1957	123.0	Aug. 1957	118.0	Jan. 4, 1959	98.7
May 1957	123.5	Feb. 1958	94.0	Sept. 1959	96.5
Oct. 1957	121.5	Sept. 1958	103.5	Jan. 1960	93.5
May 1958	109.1	Jan. 1959	90.0	Sept. 1960	100.2
Jan. 1959	96.5	Sept. 1959	97.8	Mar. 1961	97.5
Sept. 1959	105.5	Jan. 1960	91.4	Aug. 13, 1961	97.2
Jan. 1960	96.1	Sept. 1960	93.6	Oct. 1961	84.7
Sept. 1960	110.3	Feb. 1961	90.0	May 1962	93.5
May 1961	102.9	Sept. 1961	95.33	Sept. 27, 1962	101.8
Nov. 1961	98.6	Feb. 1962	87.6	May 26, 1963	102.5
Dec. 1961	96.9	Sept. 27, 1962	98.9	Sept. 30, 1963	108.8
May 1962	100.5	Feb. 26, 1963	106.8	May 1964	103.3
Oct. 25, 1962	111.5	Sept. 30, 1963	114.9	Sept. 1964	108.5
May 26, 1963	109.8	Feb. 1964	100.6	June 2, 1965	113.1
Oct. 30, 1963	109.5	Sept. 1964	109.4	Nov. 26, 1965	114.0
May 1964	117.5	Feb. 26, 1965	122.0	June 30, 1966	111.5
Sept. 1964	116.5	Sept. 30, 1965	116.2	Oct. 27, 1966	86.9
June 2, 1965	126.0	Jan. 28, 1966	111.8	June 29, 1967	136.5
Nov. 26, 1965	124.5	Aug. 30, 1966	124.0	Oct. 31, 1967	129.5
June 30, 1966	136.5	Feb. 28, 1967	120.2		
Oct. 27, 1966	103.0	Aug. 24, 1967	138.0		

Table 10.--Chemical Analyses of Water From Wells and Springs in Brazoria County

(Results are in milligrams per liter, unless otherwise shown)
 Water-bearing units: C, Chicot aquifer; CL, Lower unit of Chicot aquifer;
 CU, Upper unit of Chicot aquifer; E, Evangeline aquifer.

WELL	WATER BEARING UNIT	DEPTH (FT)	DATE OF COLLECTION	TEMPERATURE (°C)	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM AND POTASSIUM		BICARBONATE (HCO ₃)	CARBONATE (CO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS	HARDNESS AS CaCO ₃	RESIDUAL SODIUM CARBONATE (RSC)	SODIUM ABSORPTION RATIO (SAR)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 °C)	pH
									Na	K													
BH-65-30-212	CU	35	July 6, 1967	--	22	0.24	116	73	100	1.0	508	0	15	260	0.6	8.8	--	846	590	--	1.8	1,520	7.5
213	CU	90	May 24, 1939	--	--	--	--	--	--	--	799	--	16	102	--	--	--	512	--	--	--	--	--
310	CL	338	Mar. 15, 1967	--	15	--	22	5.8	95	1.1	295	0	.6	33	.5	.0	--	320	79	3.26	4.7	538	7.5
311	CL	340	Mar. 14, 1967	--	14	--	18	5.3	104	1.2	298	0	.4	34	.5	.1	--	324	67	3.54	5.5	546	7.4
404	CU	80	Aug. 19, 1932	--	--	--	101	22	38	--	414	--	6	56	--	.0	--	427	343	--	--	--	--
405	CU	54	Aug. 8, 1932	--	--	--	--	--	--	--	--	--	15	270	--	--	--	--	340	--	--	--	--
406	CU	25	do.	--	--	--	--	--	--	--	--	--	10	60	--	--	--	--	330	--	--	--	--
503	CL, E	772	Aug. 30, 1967	--	17	--	27	5.2	104	1.6	296	0	.4	51	.7	.0	--	353	89	3.07	4.8	605	8.0
505	CU	100	Aug. 19, 1932	--	--	--	161	120	380	--	328	--	115	945	--	.1	--	1,883	894	--	--	--	--
506	CU	20	Aug. 8, 1932	--	--	--	--	--	--	--	--	--	5	35	--	--	--	--	400	--	--	--	--
601	CL, E	1,300	Nov. 15, 1946	--	--	--	14	5.5	527	--	732	--	25	410	--	.0	--	1,340	58	--	--	--	--
601	CL, E	1,300	June 1, 1960	--	--	--	--	--	--	--	344	--	--	85	--	--	--	--	82	--	--	--	--
606	CL	462	June 5, 1967	--	--	--	35	6.4	--	--	276	0	.2	25	--	--	--	--	114	2.24	--	498	8.1
607	CL	507	Apr. 16, 1931	--	--	--	--	--	--	--	--	--	2	35	--	--	--	--	90	--	--	--	--
609	CU	140	Aug. 17, 1932	--	--	--	--	--	--	--	--	--	15	40	--	--	--	--	360	--	--	--	--
702	C	300	Aug. 8, 1932	--	--	--	--	--	--	--	--	--	40	95	--	--	--	--	150	--	--	--	--
703	E	812	July 18, 1946	--	--	--	--	--	--	--	347	--	22	50	--	--	--	--	30	--	--	--	--
704	CU	60	July 22, 1933	--	--	--	102	12	11	--	358	--	5.3	19	--	3.5	--	329	304	--	.27	--	--
705	CL	618	July 18, 1946	--	--	--	--	--	--	--	305	--	16	39	--	--	--	--	63	--	--	--	--
708	CU	25	Aug. 7, 1932	--	--	--	--	--	--	--	--	--	15	150	--	--	--	--	360	--	--	--	--
801	CU	200	July 19, 1946	--	--	--	--	--	--	--	380	--	21	216	--	--	--	--	162	--	--	--	--
806	CL	714	Mar. 13, 1967	--	19	.09	33	6.8	76	1.9	270	0	14	31	.4	.0	--	315	110	2.22	3.2	521	7.4
809	CL	309	Apr. 6, 1967	--	17	--	27	9.1	87	1.5	297	0	10	30	.4	.0	--	328	105	2.27	3.7	547	7.5
810	CU	30	July 22, 1933	--	--	--	94	61	372	--	511	--	72	560	--	13	--	1,424	485	--	--	--	--
901	CL, E	1,100	June 1, 1960	--	--	--	--	--	--	--	318	--	--	80	--	--	--	--	56	--	--	--	--
907	CL	700	Aug. 30, 1967	--	22	--	30	6.4	136	1.8	304	0	.4	105	.7	.2	--	452	102	2.95	5.8	790	7.9
908	CL	591	June 21, 1946	--	--	--	--	--	--	--	330	--	2	74	--	--	--	--	105	--	--	--	--

See footnotes at end of table.

Table 10.--Chemical Analyses of Water from Wells and Springs in Brazoria County--Continued

WELL	WATER BEARING UNIT	DEPTH (FT)	DATE OF COLLECTION	TEMPERATURE (°C)	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM AND POTASSIUM		BICARBONATE (HCO ₃)	CARBONATE (CO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS	HARDNESS AS CaCO ₃	RESIDUAL SODIUM CARBONATE (RSC)	SODIUM ABSORPTION RATIO (SAR)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 °C)	pH
									Na	K													
BH-65-31-403	CU	126	Mar. 15, 1967	--	23	--	96	45	144	1.7	388	0	31	282	0.4	1.2	--	815	424	--	3.0	1,470	7.3
706	CL	558	Feb. 16, 1939	--	--	--	--	--	89	--	291	--	4	33	--	.3	--	301	96	--	--	--	--
708	CU	110	do.	--	--	--	--	--	199	--	418	--	--	300	--	1.5	--	836	338	--	--	--	--
709	CU	140	do.	--	--	--	--	--	158	--	400	3	3	210	--	3.0	--	678	285	--	--	--	--
710	CL	352	June 25, 1946	--	--	--	--	--	--	--	307	--	1.0	35	--	--	--	--	81	--	--	--	--
36-902	CU	123	July 15, 1958	--	--	0.2	148	43	60	--	549	0	62	102	--	.4	--	822	550	--	1.1	1,175	7.2
903	CU	125	do.	--	--	.05	108	33	46	--	490	0	26	36	--	< .4	--	507	410	--	1.0	845	7.1
904	CU	132	do.	--	--	.2	80	38	54	--	427	0	34	62	--	< 1	--	516	360	--	1.2	860	7.5
905	CU	122	do.	--	--	.05	20	30	80	--	254	0	33	82	--	< 1	--	411	175	--	2.0	685	8.1
906	CU	128	do.	--	--	--	36	26	22	--	217	0	9	32	--	< 1	--	258	200	--	.1	430	7.9
37-402	CL	511	Apr. 10, 1931	--	--	--	--	--	--	--	--	--	2	120	--	--	--	--	180	--	--	--	--
405	CU	40	do.	--	--	--	--	--	--	--	--	--	30	1,600	--	--	--	--	2,000	--	--	--	--
702	E	1,371	Oct. 8, 1946	--	--	--	--	--	--	--	500	--	5	460	--	--	--	--	90	--	--	--	--
38-105	CU	75	Mar. 13, 1967	--	21	.22	82	13	60	1.3	412	0	.4	40	.1	.1	0.09	421	258	1.59	1.6	713	7.5
108	CU	50	Aug. 17, 1932	--	--	--	--	--	--	--	--	--	10	130	--	--	--	--	270	--	--	--	--
109	CU	27	do.	--	--	--	--	--	--	--	--	--	5	140	--	--	--	--	310	--	--	--	--
110	CU	62	do.	--	--	--	--	--	--	--	--	--	1	70	--	--	--	--	300	--	--	--	--
111	CU	35	do.	--	--	--	--	--	--	--	--	--	2	30	--	--	--	--	320	--	--	--	--
112	CU	52	do.	--	--	--	--	--	--	--	--	--	25	110	--	--	--	--	290	--	--	--	--
113	CU	54	do.	--	--	--	--	--	--	--	--	--	10	70	--	--	--	--	300	--	--	--	--
115	E	1,148	July 1, 1946	--	--	--	--	--	--	--	121	--	18	153	--	--	--	--	36	--	--	--	--
117	CU	85	Aug. 17, 1932	--	--	--	--	--	--	--	--	--	5	140	--	--	--	--	250	--	--	--	--
118	CU	65	do.	--	--	--	--	--	--	--	--	--	5	140	--	--	--	--	220	--	--	--	--
201	CL	480	July 18, 1946	--	--	--	--	--	--	--	337	--	24	61	--	--	--	--	48	--	--	--	--
202	CU	37	July 22, 1933	--	--	--	58	35	206	--	626	--	17	146	--	.6	--	771	288	--	--	--	--
206	CU	18	Aug. 17, 1932	--	--	--	--	--	--	--	--	--	2	20	--	--	--	--	280	--	--	--	--
302	CU	20	do.	--	--	--	--	--	--	--	--	--	4	85	--	--	--	--	220	--	--	--	--
401	CL	617-627 g/	May 11, 1965	--	13	--	23	5.0	232	--	290	0	24	228	--	--	--	815	79	3.19	11.4	1,210	8.32
401	E	877-899 g/	May 15, 1965	--	15	.05	15	3.0	209	--	439	17	23	65	--	--	--	786	50	--	--	914	8.52

See footnotes at end of table.

Table 10.--Chemical Analyses of Water from Wells and Springs in Brazoria County--Continued

WELL	WATER BEARING UNIT	DEPTH (FT)	DATE OF COLLECTION	TEMPERATURE (°C)	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM AND POTASSIUM		BICARBONATE (HCO ₃)	CARBONATE (CO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS	HARDNESS AS CaCO ₃	RESIDUAL SODIUM CARBONATE (RSC)	SODIUM ABSORPTION RATIO (SAR)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 °C)	pH
									Na	K													
BH-65-38-402	CL, E	911	Sept. 1, 1967	--	17	--	24	5.8	212	1.6	352	0	26	168	1.3	0.0	--	629	84	4.09	10.0	1,100	7.8
403	E	1,164	do.	--	16	--	9.0	2.2	196	1.5	408	0	18	77	2.2	.2	--	523	32	6.06	15.0	879	8.1
404	CL, E	1,059	Dec. 8, 1965	--	--	--	10	2.0	184	--	377	12	15	62	--	--	--	676	33	--	--	830	8.4
602	CL	733	Oct. 6, 1967	--	17	0.00	22	4.8	222	1.5	348	0	9.4	190	--	.2	.28	639	74	4.21	11.0	1,130	7.6
605	CU	54	May 19, 1939	--	--	--	--	--	--	--	1,320	--	23	162	--	--	--	831	--	--	--	--	--
801	CU	30	do.	--	--	--	--	--	--	--	762	--	8	69	--	--	--	434	--	--	--	--	--
39-107	CL	538	July 24, 1946	--	--	--	--	--	--	--	304	--	2	68	--	--	--	--	96	--	--	--	--
401	CL	750	Apr. 16, 1931	--	--	--	--	--	--	--	--	--	5	270	--	--	--	--	75	--	--	--	--
401	CL	750	June 20, 1940	--	--	--	17	5.4	263	--	342	--	1	250	1.0	.0	--	725	65	--	--	--	--
402	CL	722	Oct. 5, 1967	--	17	--	20	5.6	262	1.8	340	0	.4	265	1.1	.2	--	740	73	4.11	13.0	1,320	7.4
404	CU	158	Apr. 16, 1931	--	--	--	--	--	--	--	--	--	10	100	--	--	--	--	260	--	--	--	--
701	CU	156	July 25, 1946	--	--	--	--	--	--	--	436	--	17	94	--	.4	--	--	288	--	--	--	--
702	CU	60	May 17, 1939	--	--	--	--	--	73	--	394	--	18	66	.6	.3	--	461	278	--	--	--	--
807	CU	90	do.	--	--	--	--	--	109	--	488	--	12	60	.6	.8	--	522	262	--	--	--	--
42-701	C	869	June 15, 1967	24	16	--	28	7.3	190	1.6	326	0	14	166	1.3	.0	.22	584	100	3.34	8.3	1,030	8.1
43-405	CU	110	Oct. 12, 1936	--	--	--	68	18	123	--	372	--	29	126	--	--	--	547	246	--	--	--	--
701	CU	260	Sept. 1, 1956	--	--	--	--	--	--	--	415	0	--	350	--	--	--	1,187	244	--	--	--	7.25
702	CU	178	July 14, 1967	22	26	--	75	20	93	1.6	432	0	9	76	.5	.0	--	513	270	1.69	2.5	860	8.0
703	CU	110	Oct. 12, 1936	--	--	--	--	--	--	--	458	--	31	148	--	--	--	650	--	--	--	--	--
704	CU	160	do.	--	--	--	--	--	--	--	98	--	15	166	--	--	--	361	--	--	--	--	--
705	CU	102	Nov. 8, 1946	--	--	--	--	--	--	--	472	--	53	460	--	1.0	--	--	473	--	--	--	--
705	CU	102	Aug. 29, 1967	--	26	--	84	27	200	1.7	386	0	28	292	.5	.5	--	850	320	--	4	1,510	7.8
804	CU	50	Nov. 6, 1936	--	--	--	--	--	--	--	592	--	27	58	--	--	--	614	--	--	--	--	--
804	CU	50	Jan. 27, 1967	--	23	.03	59	29	101	.9	500	0	5.2	50	1.1	.0	--	515	266	2.87	2.7	864	7.3
901	CL, CU	837	Aug. 3, 1960	--	--	--	36	8.1	128	--	324	0	28	93	.5	--	--	445	124	--	5.0	769	7.0
901	C	837	June 20, 1967	24	18	--	40	8.6	122	1.3	330	0	3.8	89	.5	.0	--	445	136	2.70	4.6	782	7.8
902	CU	140	Feb. 28, 1967	--	22	1.2	68	12	69	1.2	350	0	6.4	53	.2	.0	--	404	219	1.36	2.0	688	7.4
904	CU	160	Nov. 9, 1936	--	--	--	--	--	--	--	214	--	< 10	70	--	--	--	284	--	--	--	--	--
905	CU	190	Nov. 6, 1936	--	--	--	--	--	--	--	342	--	< 10	188	--	--	--	574	--	--	--	--	--

See footnotes at end of table.

Table 10.--Chemical Analyses of Water from Wells and Springs in Brazoria County--Continued

WELL	WATER BEARING UNIT	DEPTH (FT)	DATE OF COLLECTION	TEMPERATURE (° C)	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM AND POTASSIUM		BICARBONATE (HCO ₃)	CARBONATE (CO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS	HARDNESS AS CaCO ₃	RESIDUAL SODIUM CARBONATE (RSC)	SODIUM ABSORPTION RATIO (SAR)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH
									Na	K													
BH-65-44-201	C	420	Apr. 13, 1931	--	--	--	--	--	--	--	--	--	5	70	--	--	--	--	140	--	--	--	--
	205	364	May 23, 1939	--	--	--	--	--	--	--	629	--	1	46	--	--	--	333	--	--	--	--	--
	206	315	do.	--	--	--	--	--	--	--	617	--	1	58	--	--	--	347	--	--	--	--	--
	306	101	June 7, 1967	21	--	--	89	30	--	--	508	0	20	49	--	--	--	--	346	1.42	--	901	7.8
	308	450	do.	--	--	--	27	8.4	--	--	290	0	1	60	--	--	--	--	102	2.71	--	631	7.9
	401	250	Nov. 9, 1936	--	--	--	--	--	--	--	329	--	< 10	100	--	--	--	426	--	--	--	--	--
	502	135	July 15, 1958	--	--	0.35	120	40	40	--	578	0	19	34	0.0	< 0.4	--	570	465	--	0.9	950	7.2
	503	139	do.	--	--	.15	140	44	71	--	598	0	63	68	--	< 1.0	--	876	535	--	1.2	1,460	7.1
	504	142	do.	--	--	.25	128	46	55	--	595	0	41	48	--	< .4	--	750	510	--	1.9	1,250	7.1
	505	115	June 7, 1967	21	--	--	54	32	--	--	432	0	38	77	--	--	--	--	266	1.76	--	921	7.8
	602	145	Feb. 5, 1957	--	--	.44	124	31	49	--	562	0	10	22	.5	< .4	--	486	440	--	1.1	810	6.7
	602	145	Mar. 20, 1967	--	23	--	127	29	29	2.1	566	0	15	16	.2	.1	1.9	520	436	.55	.6	857	7.2
	603	142	July 15, 1958	--	--	.2	120	41	148	--	690	0	76	90	--	< .4	--	1,062	470	--	3.0	1,770	7.4
	604	152	do.	--	--	.4	128	40	99	--	600	0	63	69	--	< .4	--	876	485	--	3.0	1,460	6.9
	605	700	Apr. 13, 1931	--	--	--	--	--	--	--	--	--	2	150	--	--	--	--	140	--	--	--	--
	702	56	Nov. 9, 1936	--	--	--	--	--	--	--	415	--	< 10	76	--	--	--	459	--	--	--	--	--
	703	110	do.	--	--	--	92	23	129	--	439	--	< 10	174	--	--	--	634	324	--	--	--	--
	704	138	do.	--	--	--	--	--	--	--	238	--	< 10	72	--	--	--	308	--	--	--	--	--
	905	660	Oct. 8, 1946	--	--	--	--	--	--	--	264	--	2	130	--	--	--	--	126	--	--	--	--
45-101	C	365	Nov. --, 1951	--	--	.09	23	10	154	--	--	--	12	121	.6	.4	--	463	99	--	--	--	7.8
	101	365	Dec. --, 1962	--	--	--	20	8.0	147	--	--	--	25	113	.6	.4	--	602	80	--	--	860	7.7
	301	127	July 7, 1967	--	--	--	--	--	--	--	456	0	35	96	--	--	--	--	228	2.91	--	1,010	7.7
	508	398	Nov. 15, 1946	--	--	--	--	--	--	--	306	--	2	96	--	--	--	--	90	--	--	--	--
	705	650	Oct. 8, 1946	--	--	--	--	--	--	--	296	--	2	400	--	--	--	--	165	--	--	--	--
	803	520	July 30, 1946	--	--	--	--	--	--	--	312	--	2	108	--	--	--	--	78	--	--	--	--
46-101	CU	167	July 7, 1967	--	--	--	--	--	--	--	488	0	20	76	--	--	--	--	134	5.32	--	975	8.0
	202	E 1,118	Apr. 16, 1931	--	--	--	--	--	--	--	--	--	25	290	--	--	--	--	60	--	--	--	--
	205	CU 147	Sept. --, 1967	--	22	--	42	22	171	2.4	478	0	29	110	.9	.2	--	634	196	3.92	5.3	1,070	7.7
	301	CL 473	July 30, 1946	--	--	--	--	--	--	--	392	--	2	164	--	--	--	--	57	--	--	--	--

See footnotes at end of table.

Table 10.--Chemical Analyses of Water from Wells and Springs in Brazoria County--Continued

WELL	WATER BEARING UNIT	DEPTH (FT)	DATE OF COLLECTION	TEMPERATURE (°C)	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM AND POTASSIUM		BICARBONATE (HCO ₃)	CARBONATE (CO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DIS-SOLVED SOLIDS	HARDNESS AS CaCO ₃	RESIDUAL SODIUM CARBONATE (RSC)	SODIUM ABSORPTION RATIO (SAR)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 ° C)	pH
									Na	K													
BH-65-46-302	C	350	Aug. 29, 1946	--	--	--	--	--	--	--	550	--	40	126	--	--	--	--	198	--	--	--	--
305	CL	485	July 30, 1946	--	--	--	--	--	--	--	404	--	2	116	--	--	--	--	75	--	--	--	--
306	CL	843	Apr. 16, 1931	--	--	--	--	--	--	--	--	--	5	290	--	--	--	--	75	--	--	--	--
307	CL	550	Aug. 29, 1946	--	--	--	--	--	--	--	516	--	18	70	--	--	--	--	78	--	--	--	--
602	CU	145	May 25, 1967	--	--	--	--	--	--	--	428	0	14	175	--	--	--	--	308	0.85	--	1,190	7.6
608	E	998	Aug. 29, 1946	--	--	--	14	0.9	308	--	123	--	26	411	--	--	--	808	38	--	--	--	--
612	CL	220	Aug. 28, 1946	--	--	--	--	--	--	--	578	--	40	130	--	--	--	--	141	--	--	--	--
902	C	400	May 24, 1967	--	--	0.01	--	--	--	--	624	0	17	142	--	--	--	--	160	7.03	--	1,370	7.7
47-106	CL	700	Aug. 25, 1946	--	--	--	--	--	--	--	284	--	2	220	--	--	--	--	78	--	--	--	--
107	CU	100	July 18, 1946	--	--	--	--	--	--	--	426	--	21	118	--	1.2	--	--	195	--	--	--	--
108	CU	96	Aug. 25, 1946	--	--	--	--	--	--	--	456	--	20	126	--	45	--	--	213	--	--	--	--
202	CL	640	July 18, 1946	--	--	--	--	--	--	--	359	--	4	279	--	--	--	--	171	--	--	--	--
203	CU	25	May 17, 1939	--	--	--	--	--	--	53	--	--	2	46	0.2	1.0	--	453	322	--	--	--	--
204	CL	684	July 1, 1946	--	--	--	--	--	--	--	330	--	1	194	--	--	--	--	50	--	--	--	--
406	CU	65	May 17, 1939	--	--	--	--	--	--	87	--	--	10	100	--	1.5	--	588	368	--	--	--	--
702	CL	924	May 25, 1967	--	--	--	--	--	--	--	406	0	1.6	890	--	--	--	--	150	3.65	--	3,330	7.9
703	CU	30	May 17, 1939	--	--	--	--	--	394	--	508	--	122	945	--	--	--	2,106	1,020	--	--	--	--
902	CU	82	May 25, 1967	--	--	1.2	--	--	--	--	716	0	26	325	--	--	--	--	260	6.54	--	2,070	7.5
904	CL	557	Aug. 1, 1946	--	--	--	--	--	--	--	518	--	3	174	--	1.8	--	--	60	--	--	--	--
48-701	C	180	May 1, 1939	--	--	--	--	--	--	283	--	--	3	270	.6	--	--	983	308	--	--	--	--
702	C	180	do.	--	--	--	--	--	--	345	--	--	10	312	--	--	--	1,092	270	--	--	--	--
50-101	CL	820	June 15, 1967	24	15	--	46	13	500	1.9	326	0	11	700	1.5	.8	0.45	1,450	168	1.97	17.0	2,650	7.9
102	CL, CU	821	June 19, 1967	--	17	--	68	19	483	2.2	334	0	12	725	.9	.8	.34	1,490	248	.52	13.0	2,720	8.0
301	CL	420	Oct. 21, 1936	--	--	--	--	--	--	--	403	--	< 10	154	--	--	--	571	--	--	--	--	--
503	CU	150	June 1, 1953	--	--	.1	104	19.4	83.8	--	390	--	.4	142	--	--	--	799	340	--	--	--	--
506	CU	142	Oct. 23, 1936	--	--	--	--	--	--	--	458	--	< 10	64	--	--	--	476	--	--	--	--	--
507	CL	585	Nov. 7, 1946	--	--	--	--	--	--	--	364	--	3	590	--	--	--	--	165	--	--	--	--
508	CU	156	Oct. 23, 1936	--	--	--	--	--	--	--	189	--	< 10	102	--	--	--	314	--	--	--	--	--
509	CL	585	Nov. 7, 1946	--	--	--	--	--	--	--	306	--	5	660	--	--	--	--	180	--	--	--	--

See footnotes at end of table.

Table 10.--Chemical Analyses of Water from Wells and Springs in Brazoria County--Continued

WELL	WATER BEARING UNIT	DEPTH (FT)	DATE OF COLLECTION	TEMPERATURE (°C)	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM AND POTASSIUM		BICARBONATE (HCO ₃)	CARBONATE (CO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS	HARDNESS AS CaCO ₃	RESIDUAL SODIUM CARBONATE (RSC)	SODIUM ABSORPTION RATIO (SAR)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 ° C)	pH
									Na	K													
BH-65-50-510	CL	650	Oct. 23, 1936	--	--	--	54	16	435	--	342	--	< 10	615	--	--	--	1,288	200	--	--	--	--
	601 CL	875	Aug. 3, 1960	--	--	--	26	9.5	428	--	382	0	2.4	508	1.4	0.0	--	1,180	104	--	18.0	2,150	7.3
	601 CL	875	Apr. 18, 1967	26	15	--	27	8.7	430	2.3	386	0	.2	515	1.2	.5	0.33	1,190	104	4.26	18.0	2,160	7.9
	604 CL	665	Oct. 21, 1936	--	--	--	14	6.0	270	--	397	--	< 10	228	--	--	--	713	59	--	--	--	--
	605 C	354	Apr. 18, 1967	22	18	--	78	33	317	2.4	350	0	20	520	.7	.5	.24	1,160	330	--	7.6	2,150	7.6
	606 C	365	Oct. 21, 1936	--	--	--	55	21	326	--	311	--	< 10	480	--	--	--	1,035	223	--	--	--	--
	805 CU	238	June 6, 1967	--	22	--	64	26	127	2.4	350	0	24	171	.4	.0	.16	609	266	.41	3.4	1,090	7.8
	806 CU	213	do.	--	23	--	104	26	108	2.2	502	0	26	117	.4	.2	.16	654	366	.90	2.5	1,120	7.6
	807 CU	208	do.	21	22	--	124	31	131	2.3	478	0	53	205	.4	.0	.17	804	437	--	2.7	1,390	7.6
	810 C	700	Oct. 23, 1936	--	--	--	29	12	447	--	323	--	< 10	590	--	--	--	1,237	123	--	--	--	--
	811 CU	139	do.	--	--	--	34	23	81	--	116	--	< 10	184	--	--	--	379	179	--	--	--	--
	812 CL	504	Nov. 7, 1946	--	--	--	--	--	--	--	322	--	5	630	--	--	--	--	174	--	--	--	--
	901 --	--	June 6, 1967	--	21	--	78	19	152	2.2	428	0	6.6	179	.7	.0	.17	669	272	1.56	4.0	1,180	8.0
	902 CU	--	Oct. 23, 1936	--	--	--	--	--	--	--	323	--	< 10	25	--	--	--	304	--	--	--	--	--
51-102	CU	165	Aug. 29, 1967	--	25	2.4	102	23	144	2.3	434	0	15	213	.4	.5	--	738	349	.13	3.4	1,290	7.9
	202 CU	80	Oct. 10, 1936	--	--	--	--	--	--	--	439	--	23	84	--	--	--	524	--	--	--	--	--
	301 CL	902	June 19, 1967	26	16	--	25	7.1	161	1.3	372	0	1	95	.7	.0	.13	490	92	4.27	7.3	840	8.0
	302 CL	902	do.	24	--	--	28	8.9	--	--	344	0	.6	130	--	--	--	--	106	3.51	--	910	8.2
	401 CL, CU	704	Feb. 17, 1967	--	25	.76	103	34	152	1.9	416	0	21	265	.3	.2	.15	808	397	--	3.3	1,440	7.2
	603 CL	577	Oct. 12, 1936	--	--	--	27	11	196	--	323	--	12	186	--	--	--	591	112	--	--	--	--
	603 CL	577	Nov. 7, 1946	--	--	--	--	--	--	--	295	--	2	194	--	--	--	--	90	--	--	--	--
	703 CL	600	do.	--	--	--	--	--	--	--	384	--	2	316	--	--	--	--	108	--	--	--	--
	803 CL	750	Oct. 14, 1936	--	--	--	27	10	307	--	317	--	< 10	365	--	--	--	865	106	--	--	--	--
	804 CL	762	Oct. 13, 1936	--	--	--	--	--	--	--	317	--	< 10	585	--	--	--	--	--	--	--	--	--
	805 CL	700	Oct. 14, 1936	--	--	--	--	--	--	--	470	--	< 10	310	--	--	--	870	--	--	--	--	--
	806 CU	49	Oct. 21, 1936	--	--	--	--	--	--	--	153	--	12	144	--	--	--	367	--	--	--	--	--
	807 CL	613	do.	--	--	--	--	--	--	--	384	--	< 10	235	--	--	--	682	--	--	--	--	--
	808 CU	100	do.	--	--	--	--	--	--	--	232	--	21	172	--	--	--	489	--	--	--	--	--
	809 CU	37	do.	--	--	--	--	--	--	--	464	--	66	270	--	--	--	896	--	--	--	--	--

See footnotes at end of table.

Table 10.--Chemical Analyses of Water from Wells and Springs in Brazoria County--Continued

WELL	WATER BEARING UNIT	DEPTH (FT)	DATE OF COLLECTION	TEMPERATURE (°C)	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM AND POTASSIUM		BICARBONATE (HCO ₃)	CARBONATE (CO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS	HARDNESS AS CaCO ₃	RESIDUAL SODIUM CARBONATE (RSC)	SODIUM ABSORPTION RATIO (SAR)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 ° C)	pH
									Na	K													
BH-65-51-810	C	320	Oct. 14, 1936	--	--	--	--	--	--	--	439	--	< 10	245	--	--	--	--	--	--	--	--	--
	811	610	Nov. 7, 1946	--	--	--	--	--	--	--	350	--	2	252	--	--	--	--	90	--	--	--	--
	901	659	Oct. 15, 1946	--	--	--	--	--	--	--	270	--	2	312	--	--	--	--	180	--	--	--	--
	901	659	Aug. 28, 1967	--	16	--	40	12	292	3.7	260	0	.4	410	0.5	0.5	--	903	150	1.27	10.0	1,660	7.9
	905	615	Mar. 16, 1967	--	16	--	28	7.2	181	2.0	272	0	.4	196	.3	.1	--	565	100	2.47	7.9	1,020	7.0
	907	524	Nov. 7, 1946	--	--	--	--	--	--	--	318	--	2	232	--	--	--	--	84	--	--	--	--
	908	60	Oct. 14, 1936	--	--	--	--	--	--	--	464	--	15	180	--	--	--	--	--	--	--	--	--
	909	502	Oct. 13, 1936	--	--	--	--	--	--	--	275	--	12	271	--	--	--	--	664	--	--	--	--
	910	495	do.	--	--	--	29	11	252	--	305	--	< 10	295	--	--	--	--	737	117	--	--	--
	912	750	do.	--	--	--	26	6.0	262	--	366	--	< 10	255	--	--	--	--	729	89	--	--	--
	913	750	Oct. 26, 1936	--	--	--	26	6.0	245	--	311	--	< 10	260	--	--	--	--	690	89	--	--	--
52-203	CU	200	Mar. 1, 1967	--	23	12	127	32	76	1.8	624	0	22	58	.2	.0	--	647	448	1.26	1.6	1,080	7.1
	401	609	Jan. 24, 1967	--	15	.61	52	13	339	2.1	276	0	1.2	495	.4	.8	--	1,050	183	.86	11.0	1,960	7.5
	405	150	Nov. 6, 1936	--	--	--	--	--	--	--	384	--	< 10	94	--	--	--	--	462	--	--	--	--
	603	95	June 9, 1967	--	--	3.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,220	--
	704	692	Nov. 10, 1936	--	--	--	--	--	--	--	281	--	< 10	325	--	--	--	--	738	--	--	--	--
	705	500	do.	--	--	--	--	--	--	--	366	--	< 10	275	--	--	--	--	730	--	--	--	--
	706	635	do.	--	--	--	--	--	--	--	275	--	< 10	360	--	--	--	--	787	--	--	--	--
	707	688	do.	--	--	--	43	12	281	--	268	--	< 10	390	--	--	--	--	858	158	--	--	--
	903	219	Mar. 10, 1967	--	22	--	148	44	131	2.4	584	0	149	154	.1	1.0	--	938	550	--	2.4	1,500	7.4
53-102	E	1,300	May 29, 1939	--	--	--	8.8	6.6	172	--	605	--	3	120	.8	--	--	--	461	49	--	--	--
	404	100	May 26, 1967	--	--	.01	--	--	--	--	476	0	141	198	--	--	--	--	476	--	--	1,530	7.7
	506	850	Sept. 5, 1967	--	15	--	9.5	2.4	202	1.2	324	0	.4	150	.8	.0	--	540	34	4.64	15.0	954	7.9
	603	324	July 1, 1941	--	--	--	--	--	270	--	619	--	28	126	--	.2	--	--	757	128	--	--	--
	605	845	Sept. 1, 1967	--	15	--	9.0	2.4	198	1.2	336	0	.4	138	.9	.0	--	--	--	4.86	15	930	7.9
	702	812	Oct. 11, 1946	--	--	--	--	--	--	--	446	--	2	800	--	3.5	--	--	96	--	--	--	--
	704	285	May 12, 1967	--	--	1.2	--	--	--	--	342	0	28	218	--	--	--	--	380	--	--	1,240	7.2
	801	1,012	June 20, 1941	--	--	--	12	4.3	305	--	384	--	1	278	1.0	.0	--	--	805	48	--	--	--
	802	865	Sept. 1, 1967	--	15	--	28	8.8	400	2.5	388	0	.4	475	.8	.5	--	1,120	106	4.24	17.0	2,020	7.8

See footnotes at end of table.

Table 10.--Chemical Analyses of Water from Wells and Springs in Brazoria County--Continued

WELL	WATER BEARING UNIT	DEPTH (FT)	DATE OF COLLECTION	TEMPERATURE (°C)	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM AND POTASSIUM		BICARBONATE (HCO ₃)	CARBONATE (CO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS	HARDNESS AS CaCO ₃	RESIDUAL SODIUM CARBONATE (RSC)	SODIUM ABSORPTION RATIO (SAR)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 °C)	pH
									Na	K													
BH-65-53-803	CL	413	June 20, 1941	--	--	--	12	4.1	274	--	402	--	1	222	--	0.0	--	727	47	--	--	--	--
804	CL	933	Sept. 5, 1967	--	14	--	15	4.4	330	1.7	364	0	.4	342	1.2	.2	--	888	56	4.86	19	1,630	7.4
805	C	336	Apr. 14, 1931	--	--	--	--	--	--	--	--	--	5	75	--	--	--	--	300	--	--	--	--
806	CU	160	July 2, 1941	--	--	--	--	--	60	--	369	--	7	66	--	1.2	--	425	243	--	--	--	--
902	C	350	Apr. 19, 1967	--	20	--	44	21	110	2.1	372	0	14	84	.7	.2	0.21	479	196	2.17	3.4	844	7.2
54-201	CL	515	May 24, 1967	26	--	--	--	--	--	--	460	0	.2	199	--	--	--	--	53	6.48	--	1,310	7.9
402	CU	357	June 30, 1967	--	19	--	36	21	174	2.3	424	0	23	137	.7	.2	--	497	176	3.42	5.7	1,070	8.2
407	CL	960	do.	--	18	--	10	2.8	270	1.6	448	16	4	167	1.8	.0	.46	712	36	6.61	20	1,210	8.4
411	CU	236	do.	22	--	--	--	--	--	--	420	0	25	130	--	--	--	--	252	1.84	--	1,050	7.8
501	CU	230	June 20, 1967	22	19	--	46	21	132	2.1	414	0	21	96	.6	.0	.25	542	202	2.76	4.0	936	7.8
504	CU	140	May 18, 1939	--	--	--	--	--	184	--	412	--	8	320	--	--	--	--	867	398	--	--	--
903	CU	245	Oct. 10, 1946	--	--	--	--	--	--	--	468	--	23	206	--	--	--	--	312	--	--	--	--
904	CL	592	do.	--	--	--	--	--	--	--	526	--	2	572	--	--	--	--	72	--	--	--	--
906	CU	240	do.	--	--	--	--	--	--	--	492	--	18	155	--	--	--	--	207	--	--	--	--
55-301	C	584	May 2, 1939	--	--	--	--	--	331	--	626	--	1	163	1.1	--	--	770	28	--	--	--	--
58-301	CU	185	Aug. 29, 1967	--	23	1.2	116	26	62	2.7	504	0	14	85	.3	.0	--	577	396	.33	1.4	962	8.0
302	CL	440	do.	--	16	--	38	12	359	2.2	396	0	5.6	428	1.1	.5	--	1,060	144	3.60	13.0	1,900	8.0
303	CU	150	do.	--	24	--	158	31	84	3.4	596	0	64	116	.3	.2	--	774	522	--	1.6	1,270	7.5
608	CU	166	Oct. 28, 1943	--	--	--	101	26	55	--	491	--	7	46	.2	--	--	511	356	--	--	--	--
616	CL	715	do.	--	--	--	72	23	452	--	294	--	7	711	.6	--	--	1,544	273	--	--	--	--
618	CU	169	Apr. 21, 1956	--	11	.4	102	--	43.3	--	503	0	7.6	36	--	--	--	--	769	--	--	--	7.1
59-301	CU	137	Nov. 6, 1946	--	--	--	--	--	--	--	503	--	2	56	--	--	.0	--	282	--	--	--	--
302	CL	373	do.	--	--	--	--	--	--	--	386	--	2	222	--	--	--	--	87	--	--	--	--
411	CU	150	Oct. --, 1942	--	--	--	75	30	337	--	268	--	.5	585	--	--	--	1,354	310	--	--	--	--
415	CU	169	Oct. 28, 1943	--	--	--	91	25	55	--	483	--	5	34	.3	--	--	495	329	--	--	--	--
417	CU	159	do.	--	--	--	93	32	78	--	495	--	11	75	.3	--	--	569	365	--	--	--	--
418	CU	164	do.	--	--	--	80	28	43	--	407	--	11	46	.3	--	--	452	316	--	--	--	--
427	CL	600	Oct. 26, 1936	--	--	--	--	--	--	--	336	--	<10	790	--	--	--	1,510	--	--	--	--	--
502	CL	473	Nov. 4, 1946	--	--	--	--	--	--	--	256	--	--	880	--	--	--	--	318	--	--	--	--

See footnotes at end of table.

Table 10.--Chemical Analyses of Water from Wells and Springs in Brazoria County--Continued

WELL	WATER BEARING UNIT	DEPTH (FT)	DATE OF COLLECTION	TEMPERATURE (°C)	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM AND POTASSIUM		BICARBONATE (HCO ₃)	CARBONATE (CO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS	HARDNESS AS CaCO ₃	RESIDUAL SODIUM CARBONATE (RSC)	SODIUM ABSORPTION RATIO (SAR)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 ° C)	pH
									Na	K													
BH-65-59-504	CU	120	Oct. 26, 1936	--	--	--	43	35	101	--	415	--	< 10	94	--	--	--	477	252	--	--	--	--
	602 CL	615	Mar. 3, 1967	--	14	--	27	7.8	356	1.4	364	0	.4	415	0.8	0.5	--	1,000	100	3.98	15.0	1,830	7.5
	603 C	510	Nov. 15, 1936	--	--	--	--	--	--	--	281	--	< 10	770	--	--	--	1,434	--	--	--	--	--
	604 CU	85	Oct. 15, 1936	--	--	--	--	--	--	--	598	--	158	400	--	--	--	1,340	--	--	--	--	--
	802 CL	506	Sept. 7, 1967	--	25	--	64	29	130	2.3	376	0	27	166	.6	.0	--	629	279	.58	3.4	1,100	7.8
	803 CU	188	June 25, 1956	--	25	0.05	81	25	155	--	452	--	58	130	--	--	--	934	304	--	--	--	7.1
	807 CU	160	Oct. 26, 1936	--	--	--	54	26	133	--	397	--	23	128	--	--	--	559	241	--	--	--	--
	808 CU	175	do.	--	--	--	--	--	--	--	409	--	23	250	--	--	--	758	--	--	--	--	--
	809 C	500	do.	--	--	--	60	26	424	--	268	--	< 10	680	--	--	--	1,322	256	--	--	--	--
	902 CL	562	Oct. 15, 1936	--	--	--	--	--	--	--	281	--	< 10	810	--	--	--	1,496	--	--	--	--	--
	903 C	850	Oct. 22, 1936	--	--	--	--	--	--	--	293	--	< 10	1,390	--	--	--	2,412	--	--	--	--	--
	904 CU	125	do.	--	--	--	--	--	--	--	336	--	< 10	1,450	--	--	--	2,542	--	--	--	--	--
60-201	CU	205	Feb. 17, 1967	--	21	--	94	37	164	1.8	446	0	43	231	.5	.0	--	811	386	--	3.6	1,440	7.3
	201 CU	205	Feb. 23, 1967	22	22	.58	108	37	137	1.8	480	0	35	210	.3	.5	0.16	788	422	--	2.9	1,390	7.1
	301 CU	306	July 15, 1958	--	--	.25	128	50	208	--	466	0	178	320	--	<1.0	--	1,368	530	--	4.0	2,280	7.2
	402 C	500	Oct. 15, 1936	--	--	--	--	--	--	--	354	--	12	575	--	--	--	1,206	--	--	--	--	--
	501 CL	472	Aug. 1, 1962	--	--	--	22	12	380	--	376	0	9	440	.9	<.4	--	1,240	106	--	--	1,850	7.6
	501 CL	472	Sept. 7, 1967	--	14	--	24	11	358	2.4	388	0	.4	415	1.0	.2	--	1,020	105	4.26	15.0	1,870	7.8
	505 C	822	Oct. 14, 1936	--	--	--	--	--	--	--	268	--	< 10	1,410	--	--	--	2,424	--	--	--	--	--
	506 CU	125	do.	--	--	--	132	55	294	--	410	--	120	520	--	--	--	1,323	554	--	--	--	--
	507 CU	125	do.	--	--	--	73	27	138	--	531	--	54	72	--	--	--	625	292	--	--	--	--
	508 E	1,200	do.	--	--	--	146	56	2,630	--	281	--	< 10	4,320	--	--	--	7,291	595	--	--	--	--
	509 CU	140	Oct. 15, 1936	--	--	--	--	--	--	--	512	--	54	120	--	--	--	684	--	--	--	--	--
	510 CU	150	do.	--	--	--	--	--	--	--	458	--	43	206	--	--	--	758	--	--	--	--	--
	511 CU	126	do.	--	--	--	--	--	--	--	445	--	50	152	--	--	--	674	--	--	--	--	--
	701 CL	460	Nov. 15, 1936	--	--	--	--	--	--	--	397	--	15	555	--	--	--	1,214	--	--	--	--	--
	702 CU	40	Oct. 15, 1936	--	--	--	--	--	--	--	567	--	164	230	--	--	--	1,057	--	--	--	--	--
	804 CL	494	Oct. 22, 1936	--	--	--	--	--	--	--	427	--	21	525	--	--	--	1,201	--	--	--	--	--
	805 CU	57	do.	--	--	--	--	--	--	--	470	--	58	255	--	--	--	865	--	--	--	--	--

See footnotes at end of table.

Table 10.--Chemical Analyses of Water from Wells and Springs in Brazoria County--Continued.

WELL	WATER BEARING UNIT	DEPTH (FT)	DATE OF COLLECTION	TEMPERATURE (°C)	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM AND POTASSIUM		BICARBONATE (HCO ₃)	CARBONATE (CO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS	HARDNESS AS CaCO ₃	RESIDUAL SODIUM CARBONATE (RSC)	SODIUM ABSORPTION RATIO (SAR)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 °C)	pH
									Na	K													
BH-65-60-806	CL	482	Aug. 1, 1962	--	--	0.31	22	12	363	--	378	--	7	411	0.7	< 0.4	--	1,193	104	--	--	1,800	7.8
61-102	CU	199	July 15, 1958	--	--	.8	130	32	24	--	517	0	8	40	--	< .4	--	525	460	--	0.5	875	6.9
105	CL	885	Mar. 18, 1960	--	--	1.0	28	12	600	--	43	12	2	970	--	--	--	2,125	120	--	--	--	8.3
106	C	900	July 1, 1941	--	--	--	--	--	843	--	372	--	2	1,250	--	--	--	2,313	237	--	--	--	--
107	CL	1,000	do.	--	--	--	--	--	920	--	376	--	2	1,350	--	--	--	2,476	214	--	--	--	--
201	C	735	July 2, 1941	--	--	--	14	5.2	284	--	428	--	2	224	1.3	.8	--	759	56	--	--	--	--
205	C	900	May 2, 1967	23	18	--	42	20	140	1.8	400	0	12	108	1.0	.0	--	540	188	2.81	4.4	941	7.2
301	CU, CL	626	June 20, 1967	23	18	--	36	19	158	2.0	430	0	18	105	1.1	.0	0.27	568	168	3.69	5.3	977	7.7
302	C	498	June 30, 1967	--	--	--	--	--	--	--	398	0	11	136	--	--	--	--	196	2.60	--	1,020	7.9
401	CU	225	July 15, 1958	--	--	.2	96	37	203	--	447	0	44	284	--	< .4	--	1,080	395	--	4.5	1,800	7.4
402	CU	192	Dec. 1953	--	20	< .05	108	34	215	--	390	34	61	300	--	--	--	1,180	--	--	--	--	8.0
405	C	450	July 1, 1941	--	--	--	78	33	234	--	440	--	40	308	--	2.0	--	912	330	--	--	--	--
507	CU	230	Apr. 24, 1964	--	.0	.41	29	18	211	--	505	0	5	131	--	--	--	911	146	--	--	1,160	7.6
508	CU	338	Sept. 5, 1967	--	17	--	33	19	210	2.0	476	0	24	150	.7	2.2	--	692	160	4.59	7.2	1,210	7.9
605	CU	292	July 11, 1941	--	--	--	--	--	215	--	508	--	31	126	--	.3	--	669	160	--	--	--	--
805	CU	234	Feb. 14, 1944	--	--	--	83	37	193	--	419	--	35	282	--	--	--	--	--	--	--	--	--
805	CU	234	Sept. 5, 1967	--	19	--	78	36	199	2.7	410	0	63	265	.4	4.2	--	869	342	--	4.7	1,520	7.6
806	CU	250	Dec. 1953	--	20	< .05	39	14	212	--	393	38	11	155	--	--	--	820	--	--	--	--	8.2
807	CU	195	Feb. 20, 1943	--	--	--	39	16	241	--	437	--	23	217	--	--	--	--	164	--	--	--	--
807	CU	195	Nov. 12, 1946	--	--	--	--	--	--	--	406	--	39	230	--	6.5	--	--	264	--	--	--	--
908	CU	184	July 2, 1941	--	--	--	38	22	168	--	448	--	7.9	122	--	4.8	--	584	186	--	--	--	--
910	CU	265	Feb. 28, 1967	--	16	--	34	23	328	2.1	672	0	15	240	.5	3.7	--	992	180	7.42	11.0	1,710	7.4
911	CU	239	Aug. 9, 1965	--	21	< .10	24	13	240	--	495	55	13	115	--	--	--	950	--	--	--	--	7.9
62-101	CU	311	June 20, 1967	22	--	--	26	16	--	--	502	0	24	120	--	--	--	--	131	5.61	--	1,140	8.1
102	CU	310	do.	23	--	--	24	15	--	--	532	0	18	155	--	--	--	--	122	6.29	--	1,280	8.1
104	CU	308	do.	--	17	--	23	15	238	1.5	538	0	25	125	.9	.0	.44	711	119	6.44	9.5	1,210	8.0
105	CU	70	May 25, 1939	--	--	--	72	28	136	--	408	--	28	134	--	--	--	623	298	.79	--	--	--
106	CU	301	July 3, 1941	--	--	--	27	16	208	--	496	--	27	106	.8	.3	--	644	134	--	--	--	--
303	CU	290	May 10, 1967	--	--	--	--	--	--	--	616	0	.2	405	--	--	--	--	160	6.90	--	2,130	7.4
603	CU	278	do.	23	--	.68	--	--	--	--	540	0	8.6	332	--	--	--	--	146	5.93	--	1,830	7.5

See footnotes at end of table.

Table 10.--Chemical Analyses of Water from Wells and Springs in Brazoria County--Continued

WELL	WATER BEARING UNIT	DEPTH (FT)	DATE OF COLLECTION	TEMPERATURE (°C)	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM AND POTASSIUM		BICARBONATE (HCO ₃)	CARBONATE (CO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DIS-SOLVED SOLIDS	HARDNESS AS CaCO ₃	RESIDUAL SODIUM CARBONATE (RSC)	SODIUM ABSORPTION RATIO (SAR)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH
									Na	K													
BH-65-62-604	CU	190	May 10, 1967	23	--	--	--	--	--	--	570	0	0.0	378	--	--	--	--	192	5.50	--	1,980	7.4
802	CU	239	Apr. 14, 1967	--	15	0.03	25	14	348	2.6	544	0	.8	300	1.2	4.8	--	979	120	6.52	14.0	1,750	7.2
64-401	CU	275	Feb. 1967	--	--	.5	--	--	--	--	--	--	--	914	--	--	--	--	195	--	--	--	7.5
81-03-203	CL	500	Feb. 16, 1967	--	14	.04	18	5.7	266	1.6	308	0	3.6	280	1.2	.5	--	742	68	3.68	14.0	1,350	7.4
301	CL	467	Apr. 13, 1967	--	--	--	--	--	--	--	412	0	.4	505	--	--	--	--	154	3.67	--	2,180	7.6
04-201	CL	525	Sept. 7, 1967	--	12	--	22	9.1	355	3.0	332	0	.4	430	.9	3.8	--	999	92	3.59	16.0	1,820	8.0
211	C	746	Oct. 22, 1936	--	--	--	--	--	--	--	281	--	< 10	1,530	--	--	--	2,662	--	--	--	--	--
212	C	500	May 20, 1937	--	--	--	36	13	504	--	407	--	< 10	645	--	--	--	1,395	143	--	--	--	--
301	C	565	July 19, 1960	--	--	.19	27	15	511	--	334	0	48	710	.6	2.4	--	1,761	130	--	--	2,935	7.5
301	C	565	Sept. 7, 1967	--	14	--	29	14	521	3.9	334	0	.4	710	.8	6.1	--	1,460	130	2.87	20.0	2,690	7.9
304	CU	253	Nov. 14, 1946	--	--	--	--	--	--	--	567	--	67	398	--	--	--	--	278	--	--	--	--
307	C	1,000	Oct. 30, 1936	--	--	--	--	--	--	--	305	--	< 10	1,120	--	--	--	2,001	--	--	--	--	--
308	C	700	Nov. 19, 1936	--	--	--	108	34	190	--	586	--	20	230	--	--	--	870	411	--	--	--	--
310	C	578	Oct. 27, 1936	--	--	--	--	--	--	--	366	--	< 10	390	--	--	--	910	--	--	--	--	--
401	C	500	May 18, 1937	--	--	--	--	--	--	--	281	--	< 10	750	--	--	--	1,403	--	--	--	--	--
501	C	580	do.	--	--	--	--	--	--	--	372	--	< 10	310	--	--	--	790	--	--	--	--	--
504	CU	250	May 19, 1937	--	--	--	--	--	--	--	372	--	< 10	300	--	--	--	774	--	--	--	--	--
507	C	560	do.	--	--	--	16	6.0	307	--	372	--	< 10	300	--	--	--	812	61	--	--	--	--
510	C	485	Oct. 27, 1936	--	--	--	--	--	--	--	348	--	< 10	445	--	--	--	981	--	--	--	--	--
511	C	700	do.	--	--	--	--	--	--	--	445	--	12	505	--	--	--	1,171	--	--	--	--	--
702	CL	542	May 18, 1937	--	--	--	--	--	--	--	390	--	< 10	275	--	--	--	750	--	--	--	--	--
703	C	600	do.	--	--	--	13	5.0	274	--	397	--	< 10	230	--	--	--	717	53	--	--	--	--
801	C	590	do.	--	--	--	29	11	519	--	317	--	< 10	700	--	--	--	1,415	117	--	--	--	--
802	C	580	do.	--	--	--	--	--	--	--	390	--	< 10	340	--	--	--	852	--	--	--	--	--
901	C	580	Oct. 27, 1936	--	--	--	--	--	--	--	641	--	15	510	--	--	--	1,344	--	--	--	--	--
902	C	580	do.	--	--	--	13	8.0	546	--	567	--	12	550	--	--	--	1,408	65	--	--	--	--
903	C	618	do.	--	--	--	--	--	--	--	390	--	< 10	395	--	--	--	938	--	--	--	--	--
904	C	1,000	May 18, 1937	--	--	--	--	--	--	--	397	--	12	1,800	--	--	--	3,140	--	--	--	--	--
905	C	600	Oct. 27, 1936	--	--	--	--	--	--	--	671	--	15	530	--	--	--	1,400	--	--	--	--	--

See footnotes at end of table.

Table 10.--Chemical Analyses of Water from Wells and Springs in Brazoria County--Continued

WELL	WATER BEARING UNIT	DEPTH (FT)	DATE OF COLLECTION	TEMPERATURE (°C)	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM AND POTASSIUM		BICARBONATE (HCO ₃)	CARBONATE (CO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS	HARDNESS AS CaCO ₃	RESIDUAL SODIUM CARBONATE (RSC)	SODIUM ABSORPTION RATIO (SAR)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 ° C)	pH
									Na	K													
BH-81-04-906	CL	520	July 18, 1967	--	19	--	22	13	544	3.6	692	0	2.4	515	0.2	1.5	--	1,460	108	9.17	23.0	2,550	7.9
05-303	CU	212	Dec. 1953	--	18	<0.05	38	16	227	--	456	43	24	160	--	--	--	1,041	--	--	--	--	8.4
304	CU	238	do.	--	21	<.05	31	12	256	--	483	53	2	140	--	--	--	942	--	--	--	--	8.2
305	CU	240	do.	--	19	<.05	39	13	239	--	420	26	27	180	--	--	--	900	--	--	--	--	8.1
315	CL	1,146	Oct. 3, 1967	--	--	--	--	--	--	--	--	--	--	1,340	--	--	--	--	--	--	--	4,360	--
315	CL	1,146	do.	--	--	--	--	--	--	--	--	--	--	1,600	--	--	--	--	--	--	--	5,090	--
315	CL	1,146	do.	--	--	--	--	--	--	--	--	--	--	1,620	--	--	--	--	--	--	--	5,120	--
315	CL	1,146	do.	--	--	--	--	--	--	--	--	--	--	1,620	--	--	--	--	--	--	--	5,130	--
315	CL	1,146	Oct. 4, 1967	--	20	--	56	21	1,040	4.6	252	0	2.4	1,640	--	.8	--	2,910	226	--	30.0	5,200	7.7
602	CU	246	Dec. 1953	--	16	<.05	26	22	337	--	506	43	<1	285	--	--	--	1,242	--	6.62	11	--	8.1
801	CL	618	July 18, 1967	--	16	--	18	13	565	5.2	670	0	.8	560	.4	12	--	1,520	98	9.01	25.0	2,650	7.8
901	CU	230	June 4, 1943	--	--	--	46	29	433	--	520	--	2	530	.0	.0	--	1,315	234	--	--	--	--
902	CU	241	do.	--	--	--	56	33	438	--	528	--	2	562	.0	.0	--	1,371	276	--	--	--	--
06-101	CU	251	Sept. 6, 1967	--	18	--	26	14	291	3.7	580	0	.6	210	.8	1.0	--	850	122	7.06	11.0	1,460	7.9
103	CU	255	Oct. 11, 1946	--	--	--	--	--	--	--	602	--	2	186	--	--	--	--	162	--	--	--	--
104	CU	266	do.	--	--	--	--	--	--	--	596	--	4	188	--	--	--	--	126	--	--	--	--
205	CU	200	May 11, 1967	--	--	--	--	--	--	--	596	0	.4	400	--	--	--	--	204	5.69	--	2,110	7.4
207	CU	243	Apr. 14, 1967	--	13	--	36	24	509	6.0	584	0	.8	574	1.1	4.2	--	1,460	188	5.80	16.0	2,600	7.2
209	CU	279	May 17, 1967	--	--	--	--	--	--	--	456	0	.2	382	--	--	--	--	106	5.35	--	1,880	7.5
303	CU	199	Apr. 14, 1967	--	16	--	30	22	496	6.0	636	0	.8	498	1.0	.0	--	1,380	166	7.11	17.0	2,480	7.4
402	CU	249	Mar. 24, 1959	--	22	.4	29	15	269	--	571	7	2	168	--	--	--	--	--	6.91	10.1	--	7.7
402	CU	249	do.	--	16	.4	23	15	302	--	572	10	2	203	--	--	--	--	--	7.33	12.0	--	7.7
403	CU	249	Sept. 6, 1967	--	18	--	49	28	439	4.9	560	0	.4	535	.6	.5	--	1,350	238	4.43	12.0	2,390	8.0
405	CU	249	do.	--	18	--	20	12	306	3.3	640	0	.4	177	.8	5.3	--	858	100	8.50	13.0	1,440	7.8
413	CU	258	Dec. 1953	--	17	.02	27	14	339	--	502	46	<1	265	--	--	--	1,172	--	--	--	--	8.3
421	CU	250	May 18, 1967	--	--	.68	--	--	--	--	504	0	4	1,080	--	--	--	--	352	1.22	--	4,010	7.5
422	CU	250	do.	--	--	2.1	--	--	--	--	484	0	3	980	--	--	--	--	410	--	--	3,690	7.8
503	CL	1,179	1949	--	--	--	--	--	--	--	--	--	--	3,230	--	--	--	--	--	--	--	--	--
505	CU	250	Dec. 1953	--	19	<.02	25	14	362	--	488	68	<1	280	--	--	--	1,223	--	--	--	--	8.1

See footnotes at end of table.

Table 10.--Chemical Analyses of Water from Wells and Springs in Brazoria County--Continued

WELL	WATER BEARING UNIT	DEPTH (FT)	DATE OF COLLECTION	TEMPERATURE (°C)	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM AND POTASSIUM		BICARBONATE (HCO ₃)	CARBONATE (CO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS	HARDNESS AS CaCO ₃	RESIDUAL SODIUM CARBONATE (RSC)	SODIUM ABSORPTION RATIO (SAR)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 ° C)	pH	
									Na	K														
BH-81-06-506	CU	254	Dec. 1953	--	19	<0.02	23	10	322	--	576	47	< 1	190	--	--	--	1,156	--	--	--	--	8.3	
507	CU	241	June 20, 1941	--	--	--	24	12	323	--	668	--	1	185	0.6	0.0	--	893	109	--	--	--	--	
507	CU	241	Sept. 6, 1967	--	18	--	21	13	345	3.6	636	0	.4	238	.7	7.2	--	960	106	8.30	15.0	1,650	7.9	
508	CU	265	June 20, 1941	--	--	--	21	15	324	--	687	--	1.0	175	--	.0	--	892	106	.98	--	--	--	
509	CU	273	May 29, 1946	--	21	--	21.5	12.9	376	--	570	31	--	265	--	--	--	1,062	--	--	--	--	7.7	
515	CL	1,138	July 17, 1945	--	34	--	98	38	1,675	--	280	--	--	2,625	--	--	--	5,092	--	--	--	--	7.3	
517	CL	1,130	Oct. 3, 1967	b/	--	--	--	--	--	--	--	--	--	168	--	--	--	--	--	--	--	--	818	--
517	CL	1,130	do.	c/	--	--	--	--	--	--	--	--	--	180	--	--	--	--	--	--	--	--	822	--
517	CL	1,130	do.	d/	--	--	--	--	--	--	--	--	--	320	--	--	--	--	--	--	--	--	1,330	--
517	CL	1,130	do.	e/	--	--	--	--	--	--	--	--	--	640	--	--	--	--	--	--	--	--	2,330	--
517	CL	1,130	do.	f/	--	--	--	--	--	--	--	--	--	2,160	--	--	--	--	--	--	--	--	6,670	--
517	CL	1,130	do.	g/	--	--	--	--	--	--	--	--	--	2,270	--	--	--	--	--	--	--	--	6,930	--
517	CL	1,130	Oct. 4, 1967	--	31	--	74	31	1,440	11	270	0	9.2	2,330	--	--	--	4,060	312	--	--	35.0	7,080	7.3
522	--	650	Oct. 30, 1936	--	--	--	27	13	647	--	525	--	<10	780	--	--	--	1,725	123	--	--	--	--	--
602	--	1,050	Apr. 14, 1931	--	--	--	--	--	--	--	--	--	3	3,500	--	--	--	--	600	--	--	--	--	--
701	--	570	Oct. 30, 1936	--	--	--	--	--	--	--	421	--	<10	1,250	--	--	--	2,299	--	--	--	--	--	--
702	--	--	May 6, 1967	--	--	--	--	--	--	--	452	0	.4	700	--	--	--	--	160	4.21	--	--	2,860	7.4
12-201	--	600	May 18, 1937	--	--	--	--	--	--	--	329	--	<10	700	--	--	--	1,364	--	--	--	--	--	--
13-101	--	580	do.	--	--	--	14	13	673	--	689	--	<10	700	--	--	--	1,739	88	--	--	--	--	--
202	--	580	do.	--	--	--	16	13	638	--	695	--	16	635	--	--	--	1,660	93	--	--	--	--	--

a/ Interval sampled.
b/ Sampled after 4 minutes pumping.
c/ Sampled after 6 minutes pumping.
d/ Sampled after 10 minutes pumping.
e/ Sampled after 13 minutes pumping.
f/ Sampled after 29 minutes pumping.
g/ Sampled after 60 minutes pumping.