GEOLOGY AND GROUND-WATER RESOURCES OF ESCAMBIA COUNTY, ALABAMA

By Joseph W. Cagle, Jr., and J. G. Newton

GEOLOGICAL SURVEY OF ALABAMA

BULLETIN 74

GEOLOGICAL SURVEY OF ALABAMA

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DIVISION OF WATER RESOURCES

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BULLETIN 74

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Prepared by the United States Geological Survey in cooperation with the Escambia County Board of Revenue and the Geological Survey of Alabama

> UNIVERSITY, ALABAMA 1963

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University, Alabama September 24, 1963

Honorable George C. Wallace Governor of Alabama Montgomery, Alabama

Dear Governor Wallace:

I have the honor to transmit the manuscript of a report entitled "Geology and Ground-Water Resources of Escambia County, Alabama" by Joseph W. Cagle, Jr., and J. G. Newton, with the request that it be printed as Bulletin 74 of the Geological Survey of Alabama.

Moderate to large quantities of ground water are obtained from sand and gravel beds in the Lisbon and Citronelle Formations and the Miocene Series, and limestone beds in the Byram Formation and the Ocala and Marianna Limestones. Other formations yield small to moderate quantities of water. Abundant quantities of ground water are generally available in most parts of Escambia County. Water from all aquifers in the county, except those in the Miocene Series, Citronelle Formation, and terrace and alluvial deposits, generally is moderately hard to hard but is otherwise of good chemical quality. Water from aquifers in the Miocene, Citronelle, and terrace and alluvial deposits generally is of good quality but locally may contain excessive iron.

Respectfully,

Philip E. LaMoreaux

State Geologist

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GEOLOGY AND GROUND-WATER RESOURCES OF ESCAMBIA COUNTY, ALABAMA

By Joseph W. Cagle, Jr., and J. G. Newton

ABSTRACT

Escambia County, in south-central Alabama, has an area of 962 square miles and, in 1960, had a population of 33,511. The economy of the county is based largely on its agricultural and timber industries.

The county is in the Coastal Plain province and is divided into three physiographic subdivisions: the Southern Limestone Hills, the Southern Pine Hills, and the flood plain which lies along the Conecuh, Sepulga, Escambia, and Little Rivers.

Geologic formations cropping out in and underlying Escambia County pertinent to the ground-water investigation of the area range in age from early Eocene to Recent. The strike of the beds in Escambia County is northwestward and the dip south and southwestward at rates generally ranging from 5 feet per mile for beds of the Pliocene Series to 50 feet per mile for the lowermost beds of the Eocene Series. The geologic units are, in ascending order, the Hatchetighee, Tallahatta, and Lisbon Formations, the Gosport Sand, the Moodys Branch Formation, the Yazoo Clay, and the Ocala Limestone of the Eocene Series; the Red Bluff Clay, the Marianna Limestone, the Byram Formation, and the Chickasawhay Limestone of the Oligocene Series; the Miocene Series undifferentiated; the Citronelle Formation of the Pliocene Series; terrace deposits of the Pleistocene Series; and alluvium of the Recent Series.

Moderate to large quantities of water can be obtained from the Lisbon Formation in most parts of the county. Individual wells tapping the formation at Brewton yield as much as 787 gpm (gallons per minute), and flow as much as 180 gpm. Large yields can probably be obtained from the formation in east-central parts of the county where the basal sand is as much as 60 feet thick.

Moderate to large quantities of water can generally be obtained from multiple aquifer wells tapping the Ocala and Marianna Limestones and the Glendon Limestone Member of the Byram Formation in eastern and central parts of the county. Flows of as much as 85 gpm are obtained from wells tapping the limestones in lowland areas.

Permeable beds of sand in the undifferentiated Miocene Series in southcentral and southwestern parts of the county yield moderate to large quantities of water. Individual wells yield as much as 760 gpm and it is probable that 300 gpm or more can be obtained from the Miocene throughout the above area. Beds of sand and gravel in the Citronelle Formation, the principal aquifer in western Escambia County, yield as much as 333 gpm to individual wells tapping them at Atmore. Similar yields can probably be obtained from the formation in western parts of the county where it is as much as 100 feet thick.

Small to moderate quantities of water are also obtained in eastern and central parts of the county from the Gosport Sand, Moodys Branch Formation, Yazoo Clay, Bucatunna Clay Member of the Byram Formation, Chickasawhay Limestone, and terrace and alluvial deposits.

Water from all aquifers in Escambia County, except those in the Miocene Series, Citronelle Formation, and the terrace and alluvial deposits, generally is moderately hard to hard but is otherwise of good quality. Water from aquifers in the Miocene, Citronelle, and terrace and alluvial deposits generally is of good quality being soft and containing only small amounts of objectionable minerals. Locally, the water may contain excessive iron. Moderately hard water is obtained from the Miocene in the Bradley, Brewton, Foshee, Pollard, and Wallace areas. Hard water from aquifers in the underlying Oligocene Series probably is replacing, in part, large quantities of water withdrawn from the Miocene in those areas.

INTRODUCTION

PURPOSE AND SCOPE

All municipal, industrial, and most agricultural and domestic water supplies in Escambia County are obtained from wells. Drought, industrial expansion, and the increased use of water for all purposes have created water problems that emphasize the need for adequate information on the ground-water resources of the area. New industries, municipalities, and individuals have requested facts on the development of ground-water supplies—the amount available, the quality of water, and the depth necessary to obtain an adequate supply.

The need for adequate ground-water facts in Escambia County prompted an investigation of its ground-water resources. The ground-water investigation, begun in October 1954, was made by the Ground Water Branch of the U.S. Geological Survey in cooperation with the Escambia County Board of Revenue and the Geological Survey of Alabama. The purpose of the investigation was to make a detailed study of the quality, quantity, and availability of ground water and to relate the occurrence and movement of ground water to the thickness, structure, and distribution of the geologic formations.

The investigation was made under the direct supervision of P. E. LaMoreaux and W. J. Powell, successive district geologists in charge of ground-water investigations in Alabama.

PREVIOUS INVESTIGATIONS

Many reports on the geology and ground-water resources of the Coastal Plain of Alabama refer to Escambia County. The geology of the region was first described in 1894 in a report entitled "Report on the Geology of the Coastal Plain of Alabama," by E. A. Smith, L. C. Johnson, and D. W. Langdon, Jr. Information on ground water in Escambia County was first published in 1907 in Geological Survey of Alabama Monograph 6, "The Underground Water Resources of Alabama," by E. A. Smith.

"The Cenozoic Formations," by C. W. Cooke, in Geological Survey of Alabama Special Report 14, "Geology of Alabama," published in 1926, contained specific references to the geology of Escambia County. Geologic sections and fossil lists for formations at several localities in the vicinity of the Conecuh and Sepulga Rivers in the northwestern part of the county were included in the report. Geologic formations cropping out in the county were mapped in considerable detail by F. S. MacNeil and are shown on a map entitled "Geologic Map of the Tertiary Formations of Alabama," published in 1946.

Later reports containing ground-water information in Escambia County include: "Fluoride in the Ground Water of the Tertiary Area of Alabama," by P. E. LaMoreaux, in 1948; and "Water Resources and Hydrology of Southeastern Alabama," by R. W. Carter, M. R. Williams, P. E. LaMoreaux, and W. W. Hastings, in 1949.

The discovery of oil in the vicinity of Pollard, Ala., in 1952, resulted in an intensive drilling program throughout the county. Subsurface geologic data made available to the U.S. Geological Survey was an important contribution to this ground-water study. The geology of the Pollard field area is described by C. V. Winter in "Transactions of the Gulf Coast Association of Geological Societies," published in 1954.

Basic data obtained during the present investigation prior to 1956 were published in 1957 in Geological Survey of Alabama Information Series 7 entitled "Interim Report on Ground Water in Escambia County, Alabama, with Special Reference to the Brewton Area," by Joseph W. Cagle, Jr., and Billy L. Floyd. A selected bibliography of reports containing pertinent or related information concerning the geology and ground-water resources of Escambia County is appended to this report.

METHODS OF INVESTIGATION

Much of the first 2 years of the investigation consisted of making an inventory of wells in the county. Data recorded from the 1,540 wells inventoried, including their construction, depth, source of supply, water level, yield, and use, are given in table 4. Detailed records were made only on selected wells in areas where numerous wells were closely spaced and of similar construction. The locations of wells inventoried, shown on plate 1, were plotted from automobile odometer readings and are presumed to be correct within 0.1 mile. The land surface altitudes, determined by aneroid barometer, are accurate to within ± 5 feet.

Water samples were collected from 969 wells and analyzed to determine the hardness and the chloride content. The results of more complete chemical analyses for water samples collected from 54 wells are given in table 5.

Aquifer tests were made to determine hydrologic characteristics of the principal aquifers tapped by wells in the county.

Sample cuttings collected from wells drilled in the area of study were studied to determine the lithology, thickness, and extent of formations in the subsurface. Drillers' logs showing the general lithology and thicknesses of beds penetrated in 138 wells in Escambia County are given in table 7. Electric logs for 29 water wells and 53 oil test wells were analyzed and correlated with other geologic data to define the stratigraphy and extent of formations in the subsurface. Oil test wells for which information was available to aid in determining the stratigraphy of formations in the subsurface of Escambia County are included in table 6. The depths at which the various formations were penetrated in oil test wells and water wells are also given in table 6.

The fieldwork included a study of exposures of rocks in road cuts and along streams, and of soils, vegetation, and topography to determine and define the areas of outcrop of the geologic formations. The geologic map (pl. 2), based on these observations, represents a modification of a geologic map of the area prepared by F. S. MacNeil in 1946.

The base map of the county was prepared from the following sources: Agricultural Adjustment Administration (AAA) aerial photographs; a State Highway Department map of Escambia County (1952);

and a U.S. Geological Survey topographic map (1942) covering that part of the county from long 87°30' W. to the Escambia-Baldwin County line and from lat 31°00' N. to lat 31°15' N.

LOCATION AND GENERAL FEATURES

Escambia County is in south-central Alabama and is bounded on the west by Baldwin County, on the north by Monroe and Conecuh Counties, on the east by Covington County, and on the south by the State of Florida (fig. 1). The county has an area of 962 square miles and Brewton, the county seat, is about 60 miles north of the Gulf of Mexico and Pensacola, Fla., and 85 miles northeast of Mobile, Ala.

The population of the county, based on the 1960 census, was 33,511. The principal towns according to population are Brewton and East Brewton (combined population, 8,820), Atmore (population 8,117), and Flomaton (population 1,454).

The county has a well developed system of highways and railroads that facilitate travel and transportation. The Louisville & Nashville Railroad, connecting Montgomery and Mobile, provides service for the towns of Brewton, Atmore, and Flomaton. An alternate route of the Louisville & Nashville connects Flomaton with Pensacola, Fla., and Selma, Ala.

A network of paved highways traverse the county. U.S. Highway 31 connects Brewton, Atmore, and Flomaton with major cities to the north and west, and U.S. Highway 29 connects Brewton with cities to the east and south. State Highways 21 and 41, north-south trending highways in western and central parts of the county, serve Atmore, Brewton, and Flomaton. A system of paved and improved gravel roads serve most of the smaller communities in the area. Numerous unimproved dirt and gravel roads complete the network.

RESOURCES AND DEVELOPMENT

The soils, climate, and topography of Escambia County are favorable to the growth of a variety of crops and timber. The soils, derived from the weathering of Coastal Plain sediments, are predominantly sandy loam and generally are well drained. The principal crops grown in the upland areas include cotton, corn, potatoes, grain, soy beans, peanuts, and fruits. The western part of the

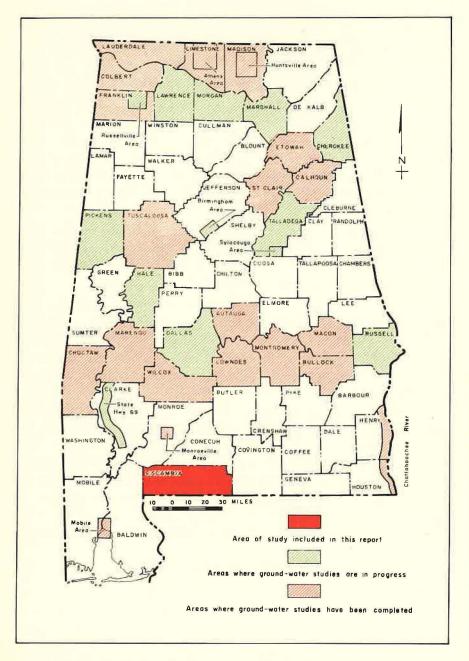


Figure 1.—Map of Alabama showing area studied and areas of other ground-water studies.

county is especially suited to pasture for cattle. The lowland areas along streams are utilized for growing timber and as pasture. Farms in Escambia County in 1954 consisted of 193,584 acres, 31.4 percent of the total acreage.

The economy of the county is based largely on timber resources. The T. R. Miller Mill Co. at Brewton, founded in 1848, is the oldest active lumber manufacturer in Alabama. The Container Corp. of America began operation in 1957 and has contributed substantially to the economy of the Brewton area.

The sandy soils support stands of slash and longleaf yellow pine and a variety of other trees. The total forest area in the county is 481,300 acres of which 452,069 are privately or State owned. The U.S. Government maintains two national forest reserves and one experimental forest in the county.

Oil was discovered at Pollard, in south-central Escambia County, in 1952. The field, developed in an area of faulting, has a productive area that is about 3¼ miles long and ¾ mile wide.

Other mineral resources of the county include deposits of sand, gravel, and limestone.

TOPOGRAPHY AND DRAINAGE

Escambia County lies within the Coastal Plain province and includes parts of three physiographic subdivisions: the flood plain, the Southern Limestone Hills, and the Southern Pine Hills. The flood plain lies along the Conecuh, Sepulga, Escambia, and Little Rivers and larger tributaries, and is underlain by alluvial deposits of sand, silt, gravel, and clay. The alluvium overlies older rocks cropping out along the streams. The Southern Limestone Hills (Semmes, 1929, p. 203-206) occupy most of the three northeasternmost townships. This physiographic subdivision is developed on the calcareous sediments in the Eocene and Oligocene Series. The Southern Pine Hills (Fenneman, 1938, p. 68-77) is developed on the undifferentiated deposits of Miocene age and the Citronelle Formation of Pliocene age. The outcrop areas of the geologic formations that comprise the physiographic divisions are shown on the geologic map (pl. 2).

A prominent physiographic feature in the Southern Pine Hills is the upland plain developed on the Citronelle Formation. The plain is most extensive and least dissected by streams west of Escambia River. It is characterized in this area by broad flat tablelike surfaces, in places 5 to 10 miles in width. The areal extent of the upland plain, sometimes referred to as the "Atmore Plain," is smaller in interstream areas between Burnt Corn Creek and the Escambia River, and in the Dixonville and Rock Creek areas south of the Conecuh River where stream dissection is more advanced.

A prominent physical feature of the uplands is the numerous small round or elongate depressions which occur in the interstream areas. These depressions vary from a few to about 100 feet in diameter and are about 5 feet deep. They support a scrubby growth of gum trees and other vegetation and occasionally contain water. The origin of the depressions has not been ascertained; however, it cannot be attributed to the solution of underlying limestone since limestone formations occur too deep to have influenced the topography. A more detailed study of the subsurface in and adjacent to the depressions would be necessary to determine their origin.

The upland plain west of Escambia River has an altitude of about 300 feet except in the Huxford area where a maximum altitude of about 345 feet is attained. Locally, the relief of the plain varies from about 5 to 15 feet. The surface of the upland plain developed on the Citronelle Formation slopes south about 5 feet per mile.

The principal streams in Escambia County are Conecuh, Sepulga, Escambia, and Little Rivers, and the principal tributaries are Murder, Burnt Corn and Little Escambia Creeks. Little River marks the Escambia-Monroe County line in the northwest and is a tributary of the Alabama River. The Conecuh River flows in a southwesterly direction across the slightly tilted strata, while its tributaries flow in a southerly direction forming a dendritic (treelike) drainage pattern. Intermittent streams drain most of the area west of the Escambia River. A few of the larger streams, for example Perdido Creek, have narrow steep-sided valleys typical of streams in early stages of development.

CLIMATE

Escambia County has a temperate to subtropical climate which is modified by the prevailing southerly winds from the Gulf of Mexico that give the area a mild humid climate. Extremes in temperature are rare and of short duration and precipitation is distributed fairly evenly throughout the year. The growing season averages about 253 days and generally two, and occasionally three, crops are grown in 1 year.

The U.S. Weather Bureau maintains precipitation and temperature stations near Brewton and at the Atmore State Prison Farm, and a precipitation station at Wallace. Records are available for the Brewton station for 38 years of an interrupted 66-year period from 1890-1956; for the Atmore State Prison Farm station for the period of 1940-56; and the Wallace station for the period 1941-56. Graphs showing data recorded at the Brewton and Atmore stations are shown on figures 2 and 3.

The summer months are moderately hot and temperatures occasionally rise to about 100°F. July, the hottest month, has an average temperature of 81.1°F and January, the coldest, has an average temperature of 49.5°F. The mean annual temperature for the 38-year period of record at the Brewton station was 65.9°F. The average date of the last killing frost is March 9 and the average date of the first killing frost is November 17.

Precipitation in Escambia County consists almost entirely of rainfall. The average annual precipitation for the 38-year period of record at the Brewton station was 57.67 inches. The average annual precipitation at the Brewton station during the period 1951-56, a time of general drought, was 52.05 inches. The wettest year of record was 1948 when 88.54 inches was recorded at Atmore, and the driest, 1954, when 31.4 inches was recorded at Brewton.

WELL-NUMBERING SYSTEM

The well-numbering system used in Escambia County is based on the Federal land classification. Each township is divided into 36 sections numbered consecutively starting with 1 in the northeast corner of the township and ending with 36 in the southeast corner. Each township in Escambia County has been assigned a letter in the same order that sections are numbered. Therefore, letter A is assigned to the northeast township and the adjoining townships are lettered alphabetically through Z to AA (fig. 4). Townships, throughout the text of this report, are identified by

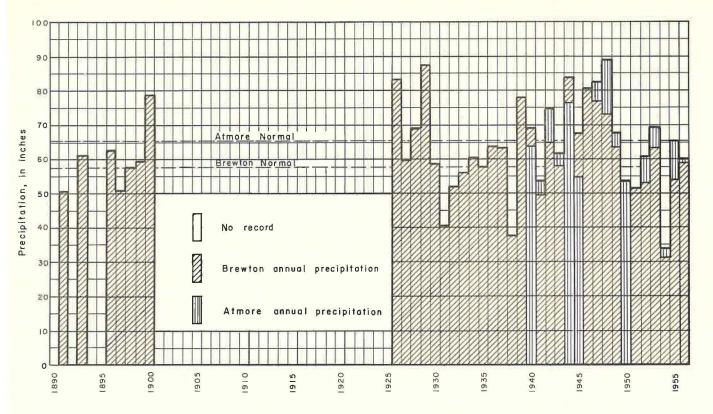
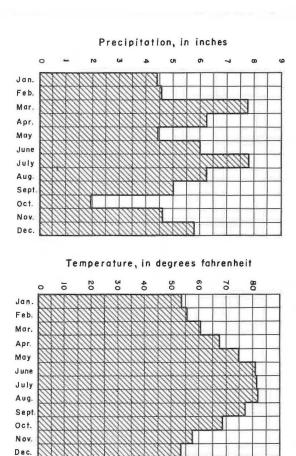


Figure 2.-Annual precipitation at Brewton (1891-1900; 1926-56) and Atmore (1940-56).



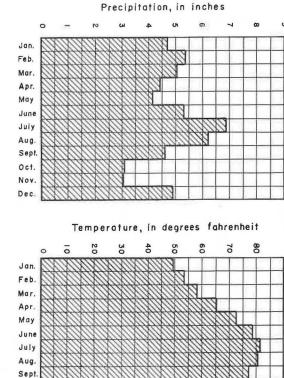
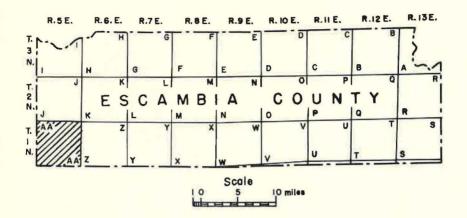


Figure 3A.-Average monthly precipitation and temperature at Brewton. Oct. Nov.

Dec.



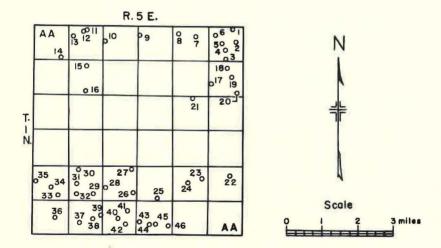


Figure 4.-Diagram showing well-numbering system in Escambia County, Ala.

their alphabetical designation. Similarly, wells within each township are numbered consecutively beginning in the northeast corner in section 1. Wells within each township are prefixed by the letter identifying the township, for example, A-1, A-2, A-3.

ACKNOWLEDGMENTS

Acknowledgment for cooperation and assistance is made to Judge Reo Kirkland, chairman, and members of the Escambia County Board of Revenue; to municipal officials of Atmore, Brewton, East Brewton and Flomaton; and to Mr. Ed Leigh McMillan, Brewton. Appreciation is expressed to the many residents of the county who contributed information about their wells and otherwise aided the investigation. Special acknowledgment is given Mr. Marcus Blair, Evergreen; the Etheridge Plumbing Co., Atmore; Mr. Travis Lambeth, Brewton; and Layne-Central Co., Pensacola, Fla., for furnishing drillers' logs and data on wells and for permitting the sampling and observation of wells during drilling operations.

GEOLOGIC FORMATIONS AND THEIR WATER-BEARING PROPERTIES

GENERAL STRATIGRAPHY

Formations of Tertiary and Quaternary ages are sources of potable ground water in Escambia County. These formations are divided into six series which are, in ascending order: the Eocene, Oligocene, Miocene, and Pliocene Series of Tertiary age; and the Pleistocene and Recent Series of Quaternary age. All but a part of the Eocene Series, present only in the subsurface, crop out in Escambia County. The Tertiary formations are underlain by rocks of Cretaceous and pre-Cretaceous age which are not considered in this report because of their depth and the occurrence of excessively mineralized water in them.

Rocks of Tertiary and Quaternary age in Escambia County dip south and southwest at rates ranging from 5 to 50 feet per mile and consist chiefly of limestone, sand, clay, silt, marl, and gravel. The geologic units of Tertiary and Quaternary age considered in this report have an aggregate thickness that ranges from 700 feet in the northeastern part of the county to 1,500 feet in the southwestern part. Formations described in this report include only those that contain potable water or are potential sources for development of ground water.

The Eocene Series includes the Wilcox Group of which only the Hatchetigbee Formation is described here; the Claiborne Group

| Series | Stratigraphic Series unit | | Approximate thickness (feet) | Lithology | Water-bearing characteristics |
|-------------|---|-----------------------------|------------------------------------|---|--|
| Recent | Alluvium | | 0-55 | Poorly sorted sand, clay, silt, and gravel. | Supplies small quantities of water to domestic and stock wells. |
| Pleistocene | Te | rrace deposits | 0-55 | do | Do. |
| Pliocene | Citronelle Formation | | 0-140 | Sand, fine- to coarse-grained with peb- bles and granules of quartz gravel; contains lenticular beds of white to gray clay. | Principal aquifer in the western part of the county where it furnishes small to large quantities of water for domestic, stock, industrial, and public supplies. Furnishes adequate domestic and stock supplies in parts of the eastern half of Escambia County. |
| Miocene | Undifferentiated Catahoula Sandstone and Paynes Hammock Sand | | 0-650 | Clay, light-gray to varicolored; sandy clay; thin to massive beds of gray to varicolored fine- to coarse-grained sand; sandstones, sands, and clays are often micaceous and lignitic and locally are sparsely fossiliferous. | Supplies small to moderate quantities of water to domestic wells in eastern Escambia County. Sands yield moderate to large quantities of water to wells in central and western parts of the county. Municipal wells at Flomaton and Atmore develop large supplies from the sands. |
| Oligocene | Chickasawhay Limestone | | 0-70 | Limestone, brown and gray, sandy, dolomitic, fossiliferous. Interbedded with dark-blue and greenlsh-gray sandy silty clay and fine-grained sand. | Solution cavities in limestone supply water for domestic use in the Brew- ton area. Sand beds yield small quantities of water to flowing wells at Brewton and Wallace. |
| | Formation | Bucatunna Clay Member | 0-100 | Clay and marl, light- to dark-gray and brown, sandy, commonly lignitic or carbonaceous; contains some thin beds of gravel and limestone. In southwestern Brewton, the upper part consists of fine-grained glauconitic sand and sandy clay. | Relatively impervious and not a source of water supply in most areas Sand beds in the upper part yield small quantities of water to flowing wells in the Brewton area. |
| | Byram For | Glendon Limestone Member | 35-60 | Limestone, white, glauconitic, hard, crystalline, abundantly fossiliferous. | Solution cavities yield small to moderate quantities of water to wells. Usually not developed separately as a single aquifer but is tapped in conjunction with the Marianna and Ocala Limestones. As combined aquifers they yield moderate quantities of water to wells in eastern and central Escambia County. |
| | Marianna Limestone | | | Limestone, marl, and calcareous sand, white to cream, soft, glauconitic, fossiliferous; alternating hard and soft beds in upper part. | Solution cavities in Limestone and calcareous sends supply small to moderate quantities of water to domestic and stock and some irrigation wells in the county. Usually tapped in conjunction with the Glendon Limestone Member of Byram Formation and the Ocala Limestone. |
| | | | 5-12 | Clay, sandy, calcareous; soft clayey and sandy glauconitic limestone. | Relatively thin and impermeable, not a source of ground water. |
| Eocene | Ocala Limestone Yazoo Ciay | | 35-60 | Limestone and calcareous sand, light- gray to cream, glauconitic, fossil- iferous; contains beds of graymari. | The Ocala is tapped in conjunction with the Marianna Limestone and the Glendon Limestone Member of Byram Formation in numerous wells. The combined aquifers furnish moderate supplies for domestic, stock, and irrigation use in central and eastern parts of Escambia County. |
| | | | 55-75 | Clay, blue to grayish-green, fissile, silty; breaks with subconchoidal fracture; locally calcareous and fossiliferous; contains beds of white glaucontite sand in the upper part and limestone and sandy marl in basal part in some areas. | The Yazoo is relatively impermeable although sand beds in the upper part and limestone and sendy mar! in the basal part yield small quantities of water to wells in the eastem and central parts of the county. Permeable beds in the Yazoo are generally tapped in conjunction with aquifers in other formations. |
| | | odys Branch ormation | 35-55 | Limestone and marl, light-gray to greenish-gray, sandy, glauconitic, abundantly microfossiliferous; contains beds of glauconitic sand. | Beds of glauconitic sand furnish small supplies to domestic and farm wells in central and eastern Escambia County. Permeable beds in the Moodys Branch are generally tapped in conjunction with aquifers in other formations. |
| | Go | sport Sand | 10-35 | Sand, greenish-gray, iron-stained, fine- to coarse-grained, abundantly glauconitic. | Yields small to moderate quantities of water to wells in the eastern and central parts of the county. Not generally tapped as only source of supply to wells. Numerous wells tap the Gosport in conjunction with other aquifers. |
| | Lis | bon Formation | 100-180 | Sand, white to gray, fine- to coarse- grained, with some thin beds of fossiliferous limestone. The upper 15 to 35 feet contains beds of glauco- nitic fossiliferous limestone and marl. The basal sand is medium- to coarse-grained and is as much as 60 feet thick. | Massive sands yield large quantities of water to public supply, industrial, and irrigation wells in east-central Escambia County. Most extensively developed in Brewton and East Brewton. Not penetrated by wells west of Pollard. |
| | | lahatta ormation | 110-240 | Claystone or shale, gray, in upper 20 to 80 feet underlain by white to gray glauconitic fossiliferous limestone. | Relatively impermeable, not a source of water in Escambia County. |
| | | tchetigbee ormation | 150 | Clay, dark-gray to brown, in upper part; lower 100± feet consists of white to green fine- to coarse-grained glauconitic sand. | Not tapped by wells in Escambia County. Sample and electric logs of water and oil test wells indicate that sands in the formation are permeable and may be a potential source of moderate to large quanti- ties of water. |

which comprises the Tallahatta and Lisbon Formations and the Gosport Sand; and the Jackson Group which comprises the Moodys Branch Formation, the Yazoo Clay, and the Ocala Limestone. The Oligocene Series comprises the Red Bluff Clay, the Vicksburg Group consisting of the Marianna Limestone and the Byram Formation, and the Chickasawhay Limestone. The Miocene Series includes the undifferentiated Paynes Hammock Sand and the Catahoula Sandstone. The Pliocene Series includes only the Citronelle Formation. Terrace deposits are included in the Pleistocene Series and river alluvium in the Recent Series. A generalized section of these geologic units with brief descriptions of their lithologies and water-bearing characteristics is given in table 1. Lithologic and electrical characteristics of geologic units penetrated in well O-150 at Brewton are shown in figure 5.

STRUCTURE

Escambia County is located along the southeastern limb of the Mississippi Embayment geosyncline. Sediments deposited in this geosynclinal trough extend northwest to Illinois and west to Texas.

The strike of beds in Escambia County is northwestward and the dip south and southwestward at rates generally ranging from 5 feet per mile for beds of the Pliocene Series to 50 feet per mile for the lowermost beds of the Eocene Series. A structure contour map, based on the top of the Glendon Limestone Member of the Byram Formation, is shown in figure 6. The average dip of the top of the Glendon is about 25 feet per mile. The underlying Marianna and Ocala Limestones have approximately the same dip.

The normal dip of the formations in Escambia County is disrupted by four faults northwest of Pollard. The normal or gravity type faults trend northwestward and two of them, the Foshee and Pollard faults, form a graben (dropped block) along which considerable movement has taken place (pl. 2). Vertical movement of beds along the fault planes ranges from 300 feet in beds of Late Cretaceous Age to 50 feet in beds of Eocene age (Winter, 1954, p. 126). In the Pollard area, oil has accumulated along the fault zones where permeable sands have been brought into contact with more impermeable beds. The location of the faults shown on plate 2 represents the surface projection of their position in the subsurface.

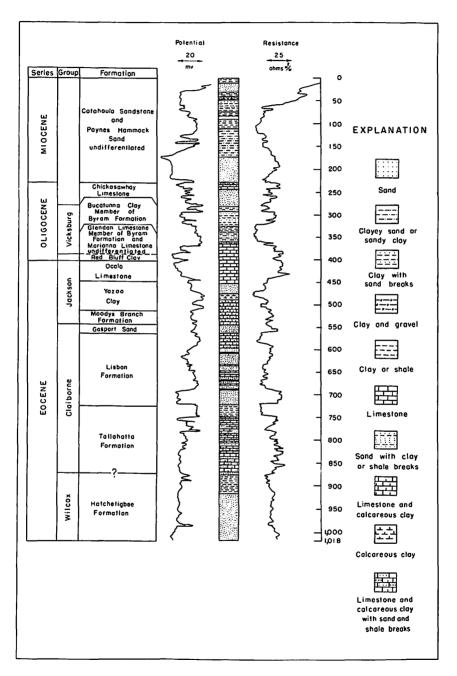


Figure 5.-Lithologic and electric logs of geologic units penetrated in well O-150 at Brewton.

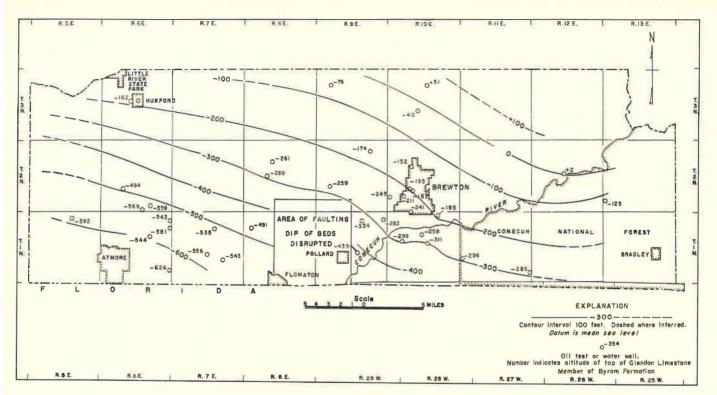


Figure 6.— Map showing approximate altitude of the top of the Glendon Limestoné Member of the Byram Formation in Escambia County.

EOCENE SERIES

WILCOX GROUP

HATCHETIGBEE FORMATION

GENERAL FEATURES

The Hatchetigbee Formation, the uppermost formation of the Wilcox Group, was named for exposures at Hatchetigbee Bluff along the Tombigbee River in the northeastern part of Washington County, Ala. (Smith, 1886, p. 10). The Hatchetigbee is present in the subsurface throughout Escambia County. It crops out to the north and northeast in Conecuh and Monroe Counties. The Hatchetigbee overlies the Tuscahoma Sand of the Wilcox Group and is overlain by the Tallahatta Formation of the Claiborne Group. It is the lowermost formation containing potable water in Escambia County.

THICKNESS AND LITHOLOGY

The total thickness of the Hatchetigbee Formation in Escambia County is not known. However, in the Monroeville area north of Escambia County about 20 miles, the formation is reported to be about 200 feet thick (Ivey, 1957, p. 48). In the Brewton area, three water test wells penetrated a part of the Hatchetigbee. Beds in the formation penetrated in these wells were 140 feet thick in well O-150, 150 feet thick in well O-141, and 144 feet thick in well W-4. The test wells reached the top of the formation at depths ranging from 780 to 910 feet below the land surface.

The upper 140 feet of the Hatchetigbee, based on sample and electric log data obtained from well O-150, consists of about 40 feet of dark-gray to brown clay underlain by about 100 feet of green fine- to coarse-grained angular to subangular glauconitic sand.

WATER SUPPLY

Wells in Escambia County do not tap the Hatchetigbee Formation because of its depth and the availability of water in overlying aquifers. Available data indicate, however, that permeable sands in the formation may be a potential source of moderate to large quantities of water.

CLAIBORNE GROUP

The Claiborne Group is named for exposures in a bluff on the Alabama River at Claiborne, Monroe County. All strata between the "Lignitic" (Wilcox Group) below and the "White Limestone" (Jackson and Vicksburg Groups) above were assigned to the Claiborne by Smith and Johnson (1887, p. 25). They subdivided the Claiborne into the "Buhrstone" (Tallahatta) at the bottom and the Claiborne proper (Lisbon and Gosport) at the top.

The Claiborne Group, in this report, consists of the Tallahatta Formation at the bottom, the Lisbon Formation in the middle, and the Gosport Sand at the top. These formations crop out to the north and northwest in Conecuh and Monroe Counties where they dip southward and underlie all of Escambia County. All strata comprising the group are marine in origin.

TALLAHATTA FORMATION

GENERAL FEATURES

The term "Tallahatta" was first used by Dall (1898, p. 344). This term was suggested to him by E. A. Smith as a replacement for the lithologic term "buhrstone." The formation was named for the Tallahatta Hills, developed on the "buhrstone," which trend northwestward across the north-central part of Choctaw County, Ala. The Tallahatta underlies all of Escambia County. The top of the formation was penetrated at a depth of 720 feet below the land surface in a test well (O-150) at Brewton. The Tallahatta rests unconformably on the Hatchetigbee Formation of the Wilcox Group and is overlain by the Lisbon Formation.

THICKNESS AND LITHOLOGY

The Tallahatta Formation thickens down the dip in the subsurface of Escambia County. Formation thicknesses penetrated in wells range from 110 feet in the northern half of the county to 240 feet in the southern half. In the Brewton area, the Tallahatta is about 150 feet thick.

The uppermost part of the Tallahatta consists of gray shale or claystone that ranges in thickness from 20 to 80 feet. The clay contrasts with the coarse-grained basal sand of the overlying Lisbon Formation. Beneath the shale, in well O-150, the Tallahatta consists

predominantly of white to gray glauconitic fossiliferous limestone with a bed of fine-grained sand in the upper part.

WATER SUPPLY

The Tallahatta is relatively impermeable and is not important as a source of ground water in Escambia County.

LISBON FORMATION

GENERAL FEATURES

The Lisbon Formation is named for exposures at Lisbon Landing, Clarke County, Ala. It overlies the Tallahatta Formation and is overlain by the Gosport Sand. The Lisbon crops out to the north in Monroe, Conecuh, and Covington Counties. It dips south and southwestward and underlies all of Escambia County. The top of the formation is at a depth of 220 feet below the land surface in well A-4, near the northeast corner of the county; at 565 feet below the land surface in a test well (O-150) at Brewton in the central part of the county; and at 1,015 feet below the land surface in an oil test well (SE¼ sec. 1, T. 1 N., R. 6 E.) at Robinsonville in the southwest part of the county.

THICKNESS AND LITHOLOGY

The average thickness of the Lisbon in Escambia County, based on records of 55 wells penetrating the formation (table 6), is 143 feet. The thickness penetrated in water and oil test wells in the county ranged from 100 feet near Jack Springs in the western part to 180 feet in sec. 30, T. 1 N., R. 11 E., in the eastern part.

The Lisbon Formation in the subsurface of Escambia County generally consists predominantly of white to gray fine- to coarse-grained sand with some thin beds of indurated limestone. Distinctive beds of greenish-gray glauconitic fossiliferous limestone and marl comprise the upper part of the formation. The thickness of these beds ranges from 15 to 35 feet but is generally about 20 feet in most areas. The calcareous beds at the top of the formation are overlain by glauconitic sand of the Gosport Sand. The top of the Lisbon, based on a study of well cuttings, is indicated by the first appearance of limestone and marl beneath the glauconitic sand.

A prominent white medium to very coarse grained sand of variable thickness comprises the basal part of the formation in all but a small area in the western part of the county. The maximum thickness of the sand in and near Brewton is about 40 feet. North and south of Brewton it has a maximum thickness of about 60 feet in the Pilgrams Church, Kirkland, Dixonville, and Travis School areas and in the westernmost part of the Conecuh National Forest. The thickness in the remainder of the county is 30 feet or less except in the Jack Springs, Poarch, Freemanville, and Nokomis areas in the western part where it is apparently absent.

WATER SUPPLY

Massive beds of fine- to coarse-grained sand of relatively high permeability in the Lisbon Formation attain a thickness of as much as 60 feet in the eastern half of Escambia County. They yield small to large quantities of water to domestic, stock, industrial, public supply, and irrigation wells in a part of this area. Water wells west of Pollard do not tap the Lisbon because of its considerable depth.

The most extensive development of the Lisbon for water is in the Brewton and East Brewton areas. Outside these areas, wells tap the Lisbon for supplies only in the vicinities of Damascus and Pollard. Most wells tapping the Lisbon in Escambia County also tap aquifers in overlying formations. Only in Brewton and East Brewton, principally in public supply wells, are sands in the Lisbon developed separately as sources of water supply.

Public supply wells O-95, O-140, O-141, O-150, and industrial well O-147 in Brewton, and public supply well O-174 in East Brewton obtain water from the Lisbon. These wells tap sand beds in the formation at depths ranging from 517 to 731 feet below the land surface. Total depths of the wells range from 596 to 731 feet. Well O-95 had a reported yield of 615 gpm (gallons per minute) in 1948 and well O-174 had a reported drawdown of 84 feet pumping 388 gpm in 1949. The water level in well O-174 was 31.0 feet below the land surface on May 6, 1957.

Water from sands in the Lisbon Formation in the subsurface of the Brewton area will rise, under hydrostatic pressure, to an elevation of about 125 feet above mean sea level. Properly constructed wells will flow if located in areas where the elevation of the land surface is below 125 feet. Well O-147, with a surface elevation of 77 feet above mean sea level, was flowing 180 gpm on March 4, 1957. Wells O-111 in Brewton and V-22 in East Brewton, which tap aquifers in the Lisbon and overlying formations, had flows of 205 and 150 gpm, respectively, in 1957.

Moderate to large quantities of water can be obtained from permeable beds in the Lisbon in most parts of the county. The basal sand, the principal aquifer in the formation, is a potential source of large quantities of water where it is of sufficient thickness and permeability. The Lisbon appears to offer the poorest opportunity for development south of McCullough and Jack Springs and west of the Escambia River in the western part of the county, where the basal sand is thin or absent. The best opportunity for the development of large-capacity wells in the Lisbon is in the east-central part of the county in the Pilgrams Church, Kirkland, Brewton, East Brewton, and Travis School areas and in the westernmost part of the Conecuh National Forest where electric logs of test wells indicate that the basal sand is 30 to 60 feet thick.

GOSPORT SAND

GENERAL FEATURES

The Gosport Sand, the upper formation of the Claiborne Group, takes its name from exposures at Gosport Bluff on the Alabama River a few miles below Claiborne Bluff in Clarke County, Ala. (Cooke, 1926, p. 272). The Gosport crops out in Conecuh and Monroe Counties, dips southward, and underlies all of Escambia County. It overlies the Lisbon Formation and is overlain by the Moodys Branch Formation of the Jackson Group.

THICKNESS AND LITHOLOGY

The Gosport ranges in thickness from 10 to 35 feet and the average thickness, based on records of 61 wells penetrating the formation (table 6), is 19 feet.

The Gosport is composed of greenish-gray iron-stained fine- to coarse-grained abundantly glauconitic sand that contains some granules of gravel. The glauconite is green, brown, and black and has a resinous appearance. The sand in the Gosport is commonly

called "greensand" because of the abundant green glauconite. The greensand contrasts sharply with the limestone and marl beds in the overlying Moodys Branch Formation and in the underlying Lisbon Formation.

WATER SUPPLY

The Gosport furnishes water to numerous wells in the central and eastern parts of the county. It is not usually developed separately as an aquifer but does yield water to wells that tap it in conjunction with aquifers in other formations. Wells in the central and eastern parts of the county in which the Gosport is tapped in conjunction with other aquifers are A-4, O-79, Q-18, Q-59, V-9, and V-36.

The sand in the Gosport is generally of uniform grain size, which would indicate a permeable aquifer and a possible source of moderate to large quantity of water to wells.

JACKSON GROUP

The Jackson Group, according to Cooke (1926, p. 274), received its name from exposures at Jackson, Miss. Deposits of Jackson age were at one time grouped with deposits of Vicksburg age into a single formation, the "St. Stephens white limestone". The Jackson Group in this report follows that of MacNeil (1944), and, in ascending order, is divided into the Moodys Branch Formation, the Yazoo Clay, and the Ocala Limestone.

The formations of the Jackson Group crop out to the north in Conecuh and Monroe Counties and underlie all of Escambia County. The rocks comprising the Jackson Group are penetrated at shallow depths in the northeastern part of the county where they are overlain by thin terrace and alluvial deposits. The Jackson Group overlies the Gosport Sand of the Claiborne Group and, downdip, is overlain by the Red Bluff Clay of the Oligocene Series. The Jackson Group has a maximum aggregate thickness of about 180 feet.

MOODYS BRANCH FORMATION

GENERAL FEATURES

The Moodys Branch Formation was named for exposures along Moodys Branch at Jackson, Miss. (Lowe, 1915, p. 79-80). The Moodys

Branch, in the subsurface of Escambia County, overlies the Gosport Sand of the Claiborne Group and underlies the Yazoo Clay.

THICKNESS AND LITHOLOGY

East of the Escambia River, the Moodys Branch ranges in thickness from 35 to 55 feet. The maximum thickness penetrated in the eastern part of the county, 55 feet, was in well A-4 between depths of 145 to 200 feet below the land surface. West of Escambia River, the Moodys Branch cannot be differentiated on electric logs from the overlying Yazoo Clay. The average combined thickness of the formations, based on records of 15 wells penetrating them in this area (table 6), is 70 feet.

The Moodys Branch Formation consists predominantly of light-gray to greenish-gray sandy glauconitic abundantly foraminiferal limestone and marl that contains some beds of glauconitic sand. The upper part of the Moodys Branch and lower part of the overlying Yazoo Clay are lithologically similar. The contact, as selected in the subsurface of Escambia County, is based on the first appearance of the distinctive microfossil Camerina moodybranchensis Gravell and Hanna. The local drillers refer to this abundant foraminifer as "water seed" and associate it with a zone that occurs just above the water-bearing Gosport Sand.

The coarse-grained glauconitic fossiliferous iron-stained sand at the top of the underlying Gosport Sand contrasts with the overlying lighter colored limestone and marl at the bottom of the Moodys Branch Formation.

WATER SUPPLY

Beds of glauconitic sand in the Moodys Branch Formation yield water to wells in the eastern half of Escambia County. Aquifers in the formation are seldom tapped in a well as the only source of supply, however, in numerous wells, they are tapped in conjunction with aquifers in adjacent formations. These include, among others, wells A-4, A-7, A-15, A-16, O-85, P-39, R-7, R-9, V-9, and V-36. Because of the multiple aquifer development, the water-bearing properties of the Moodys Branch are only generally known. It is probable that aquifers in the formation would yield only small quantities of water if developed separately.

YAZOO CLAY

GENERAL FEATURES

The Yazoo Clay, a marine deposit, was named for exposures in a bluff along the Yazoo River at Yazoo City, Miss. It crops out to the north and underlies all of Escambia County. The Yazoo overlies the Moodys Branch Formation and is overlain by the Ocala Limestone.

THICKNESS AND LITHOLOGY

The Yazoo Clay is 55 to 75 feet thick east of the Escambia River. It is 55 to 60 feet thick in the subsurface of the Brewton area. A thickness of 70 feet was penetrated in wells D-15, V-9, and V-36 in areas north and south of Brewton. West of Escambia River, the Yazoo Clay and the underlying Moodys Branch Formation cannot be separated with the use of available data. Combined, they have an average thickness of about 70 feet in this area.

The Yazoo is composed predominantly of blue to grayish-green waxy blocky calcareous and noncalcareous silty clay containing some beds of fossiliferous limestone and light-gray sandy marl. The clay is fossiliferous in part. It contains some laminae of fine sand, is fissile, and breaks with a subconchoidal fracture.

The upper part of the Yazoo, in some areas, is composed of sand beds of variable thickness. In well O-150 at Brewton, a white fine- to medium-grained glauconitic sand 23 feet thick is present in the upper part of the formation. East of the Escambia River, the lower 15 to 25 feet of the formation generally consists of alternating beds of limestone, sandy marl, and clay. Available data indicate an increase in the percentage of limestone in the Yazoo west of Escambia River.

WATER SUPPLY

Several wells in the northeasternmost part of the county (grid A on pl. 1) obtain adequate domestic supplies from the sand beds in the upper part and the limestone beds in the lower part of the Yazoo Clay. In this area and in areas as far west as Brewton and possibly Pollard, the sand and limestone beds in the formation contribute some water to wells that also tap aquifers in other formations. The water-bearing properties of the Yazoo are only generally known because of the multiple aquifer development in most wells. It is

probable that aquifers in the formation are capable of yielding only small supplies of ground water.

OCALA LIMESTONE

GENERAL FEATURES

The Ocala Limestone, the upper formation of the Jackson Group. was named for exposures in the vicinity of Ocala, Fla., by Dall and Harris (1892, p. 103, 157, 311). The Ocala crops out to the north and underlies all of Escambia County. It is underlain by the Yazoo Clay and is overlain by the Red Bluff Clay of the Oligocene Series. The formation is present at shallow depths in the northeasternmost part of the county near its area of outcrop. It is overlain in that area by terrace and alluvial deposits of the Conecuh and Sepulga Rivers. The Ocala is well exposed beneath these deposits at many places along the channel of the Sepulga River.

THICKNESS AND LITHOLOGY

The Ocala Limestone ranges in thickness from 35 to 60 feet in Escambia County. It consists predominantly of light-gray to creamcolored sandy glauconitic abundantly fossiliferous limestone and calcareous sand with some beds of gray marl. Geologic sections of the Ocala at several localities along the Sepulga River in Escambia County and at Brooklyn in adjoining Conecuh County were described by Cooke (1926, p. 276-277).

WATER SUPPLY

The Ocala is the basal formation of a sequence of calcareous rocks that includes the overlying Red Bluff Clay, the Marianna Limestone, and the Glendon Limestone Member of the Byram Formation, all of Oligocene age. Most wells which penetrate this sequence of beds in Escambia County develop water from the combined aquifers. Consequently, the Ocala, Marianna, and Glendon are here treated as a unit for a discussion of their water-bearing characteristics. The Red Bluff Clay probably does not yield water to wells because of its relatively impervious nature. Their unit thickness, including the Red Bluff Clay, ranges from 65 to 125 feet in the county. The average thickness of these formations, based on records of 49 wells penetrating them in Escambia County (table 6), is 90 feet.

Water is developed from the combined aquifers of the Ocala Limestone only in that part of the county east of Wallace and Foshee. Westward, the rocks are at progressively greater depths and are not penetrated by water wells. Wells east of Wallace and Foshee obtain adequate supplies for domestic, stock, and irrigation use. The most extensive development is in areas underlain by flood plain and terrace deposits and in other lowlands bordering streams. Flowing wells are generally obtained in the lowland areas. Flowing wells P-30 and Q-58 tap the limestones in the eastern quarter of the county. Well P-30 taps the aquifers between 250 to 337 feet below the land surface. Well Q-58 penetrates the combined aquifers at depths of 99 to 195 feet below the land surface. Well V-27, tapping the aquifers south of Brewton, had a measured flow of 85 gpm on December 14, 1954.

Available data indicate that the combined aquifers should yield moderate to large quantities of water to wells in most parts of the county.

OLIGOCENE SERIES

Formations in the Oligocene Series are comprised predominantly of limestone, marl, clay, and calcareous sand of marine origin. They overlie the Ocala Limestone of the Jackson Group and are overlain by undifferentiated deposits of Miocene age.

The Oligocene Series (MacNeil, 1947a) consists, in ascending order, of the Red Bluff Clay, the Vicksburg Group, and the Chickasawhay Limestone. The Vicksburg Group consists of the Marianna Limestone and the Byram Formation which comprises the Glendon Limestone Member at the bottom, a marl facies in the middle, and the Bucatunna Clay Member at the top. The marl facies is included as a part of the Bucatunna Clay Member in this report.

The Red Bluff Clay and the Marianna and Chickasawhay Limestones are not exposed in Escambia County. In the extreme northeastern part, however, the Red Bluff and Marianna are very near the surface, covered only by thin terrace and alluvial deposits. Thin exposures of the Marianna may be present locally where the terrace and alluvial deposits have been removed by erosion. Members of the Byram Formation crop out in the same general area but are undifferentiated on the geologic map (pl. 2).

RED BLUFF CLAY

GENERAL FEATURES

The Red Bluff Clay was named by Hilgard (1860, p. 136) for exposures at Red Bluff on the Chickasawhay River in Wayne County, Miss. He recognized the Red Bluff as a distinct unit underlying the Vicksburg and overlying the Jackson. Later workers, including Cooke (1918, p. 187), treated the Red Bluff as the basal member of the Vicksburg Group. In this report the Red Bluff is included (MacNeil, 1947a) as the basal formation of the Oligocene Series.

The Red Bluff does not crop out in Escambia County. In the northeasternmost part of the county near Teddy, the Red Bluff is overlain by thin terrace and alluvial deposits. In the subsurface it overlies the Ocala Limestone and is overlain by the Marianna Limestone.

THICKNESS AND LITHOLOGY

The Red Bluff Clay in the subsurface of Escambia County, based on electric logs of oil test and water wells, ranges in thickness from 5 to 12 feet.

The Red Bluff consists chiefly of calcareous sandy clay and soft clavey sandy glauconitic limestone. Electric log characteristics of the Red Bluff in Escambia County can be correlated with those of the Red Bluff in the subsurface to the northwest in the Monroeville area, Monroe County, where the formation is of similar thickness and lithology (Ivey, 1957, p. 31-44).

WATER SUPPLY

The Red Bluff is thin and relatively impermeable and is not important as an aquifer in Escambia County. Wells penetrating the Red Bluff tap the limestone aquifers above and below it.

VICKSBURG GROUP

The Vicksburg Group in Alabama was formerly included in the "St. Stephens white limestone" in the underlying Jackson Group. Cooke (1918, p. 187) treated the Vicksburg as being composed, in ascending order, of the Red Bluff Clay, the Marianna Limestone, the Glendon Limestone, and the Byram Marl. MacNeil (1944) restricted the Vicksburg to include the Marianna Limestone and the Byram

Formation. The Byram comprises the Glendon Limestone Member at the bottom and the Butacunna Clay Member at the top. The latter classification is followed here.

MARIANNA LIMESTONE

GENERAL FEATURES

The Marianna Limestone was named for exposures at Marianna, Fla. The Marianna has been used rather extensively as a source of building stone. The white soft limestone hardens upon weathering, and was once used principally for building chimneys. The Marianna is commonly known as "chimney rock" from this usage.

The Marianna is overlain by thin terrace and alluvial deposits in the northeasternmost part of the county. It may be exposed locally in a few small areas where the overlying deposits have been removed by erosion. The Marianna overlies the Red Bluff Clay and is overlain by the Glendon Limestone Member of the Byram Formation.

THICKNESS AND LITHOLOGY

The Marianna Limestone and Glendon Limestone Member of the Byram Formation, because of their similar lithology, are treated as a unit in describing their thickness. They have an average thickness of about 35 feet except in the northwestern part of the county near McCullough and Huxford where they are as much as 60 feet thick.

The Marianna consists of white to cream-colored glauconitic calcareous sand, marl, and chalky limestone interbedded with layers of hard sandy glauconitic limestone. Strata in the upper part of the formation generally consist of alternating hard and soft limestone beds with the harder layers predominating. Strata in the lower part of the formation generally consist of soft calcareous sand containing a few hard layers of limestone near the bottom. The formation is abundantly fossiliferous throughout and in drill cuttings the sand and finely ground fossil fragments have a mealy appearance.

WATER SUPPLY

Solution cavities in the limestone and calcareous sand supply water to domestic, stock, and some irrigation wells in the county. Most wells tapping the Marianna, as described previously, also tap the Glendon Limestone Member of the Byram Formation and the Ocala Limestone. The occurrence and availability of water in this series of aquifers is discussed with that of the Ocala Limestone.

BYRAM FORMATION

GLENDON LIMESTONE MEMBER

GENERAL FEATURES

The Glendon Limestone was named in an unpublished report by Cooke in 1916 (Hopkins, 1917, p. 300) for exposures at Glendon Station, Clarke County, Ala. It was regarded as the upper member of the Marianna Limestone until 1923, when Cooke (p. 3) raised it to the rank of formation. MacNeil (1944, p. 1329) includes the Glendon as the basal member of the Byram Formation. This usage is followed here.

The Glendon crops out in the extreme northeastern part of the county along the margins of the flood plains of the Conecuh and Sepulga Rivers. It is mapped as part of the Byram Formation undifferentiated (pl. 2). It is well exposed at McGowin Bridge in the SW1/4 sec. 6, T. 2 N., R. 13 E. (beneath alluvium in the channel of the Conecuh River) and in the NW1/4 sec. 6, T. 3 N., R. 13 E., west of well A-4 (pl. 1). Cooke (1926, p. 286) states: "At McGowans Bridge on Conecuh River, in sec. 6, T. 2 N., R. 13 E., 3 miles below the mouth of Sepulga River, the Glendon Limestone forms a wall of rock capped by a flat ledge 12 feet above water. The rock consists of alternating hard and soft ledges of white marly limestone and "horsebone." The upper part is hard white limestone and is weathered into innumerable tubular cavities. Above the broad ledge which apparently forms the top of the Glendon Limestone ledges of hard, compact glauconitic limestone alternate with softer gray marly limestone for a thickness of about 4 feet. These upper beds probably are of Byram age." The Glendon overlies the Marianna Limestone and is overlain by the Bucatunna Clay Member of the Byram Formation.

The Glendon Limestone Member is more resistant to erosion than the underlying and overlying formations and underlies an area topographically higher than that formed on the Marianna Limestone and the Bucatunna Clay Member.

THICKNESS AND LITHOLOGY

The Glendon Limestone Member has an estimated thickness of 10 to 12 feet in surface exposures. It cannot be separated from the underlying Marianna Limestone in the subsurface because of their lithologic similarity. They have a combined average thickness of about 35 feet in the subsurface of Escambia County.

The Glendon is composed of white to light-brown glauconitic hard crystalline limestone. It is abundantly fossiliferous and resembles a coquina. When weathered, it is nodular in appearance and is filled with a network of irregular tubular cavities as much as 6 inches in diameter. Weathered boulders are locally called "horsebone" because of their resemblance to bleached animal bones. The configuration of the top of the Glendon in the subsurface of Escambia County is shown in figure 6.

The Glendon is the upper part of a sequence of limestones, marls, and calcareous sands that includes the Marianna Limestone and Red Bluff Clay of Oligocene age and the Ocala Limestone of Eocene age.

WATER SUPPLY

Solution cavities in the Glendon Limestone Member are believed to yield small to moderate quantities of water to wells in the county. Almost all the wells that tap the Glendon in Escambia County also tap the Marianna and Ocala Limestones. The occurrence and availability of water in this series of aquifers is discussed with the Ocala Limestone.

BUCATUNNA CLAY MEMBER

GENERAL FEATURES

The Bucatunna Clay was named for exposures along Bucatunna Creek in Wayne County, Miss. The marl facies of the Byram is included in the Bucatunna Clay Member in this report. The Bucatunna is marine in origin.

The Bucatunna crops out in the northeastern part of the county. On the geologic map (pl. 2) it is included as a part of the undifferentiated Byram Formation. The Bucatunna overlies the Glendon Limestone Member of the Byram Formation and is overlain by the

Chickasawhay Limestone where it is present, and by deposits of Miocene age and terrace and alluvial deposits where the Chickasawhay is absent. The Chickasawhay is absent in areas adjacent to the northeastern and north-central borders of the county.

THICKNESS AND LITHOLOGY

The Bucatunna Clay Member, where present in Escambia County, is as much as 100 feet thick. In the eastern part of the county, except in the outcrop and in the Brewton and Bradley areas, it is generally 30 to 65 feet thick. It is 75 to 90 feet thick in the Brewton and Bradley areas. In the western part of the county, the Bucatunna is generally 50 to 70 feet thick except in the Freemanville area where it is at least 100 feet thick.

The Bucatunna consists chiefly of light- to dark-gray and brown generally fossiliferous sandy clay and in some areas marl that contains sand beds and thin beds of gravel and limestone. The Bucatunna is commonly lignitic or carbonaceous. The upper part of the formation in the southwestern part of Brewton consists chiefly of fine-grained glauconitic sand containing some beds of sandy clay. These strata were penetrated between depths of 270 to 326 feet in well O-150 (where the base of the Bucatunna is at a depth of 366 feet) and between depths of 184 to 233 feet in well O-129 (which did not penetrate the total thickness of the Bucatunna). Southwest from Brewton, the upper part of the Bucatunna is predominantly sand at least as far as well W-4 (pl. 1).

WATER SUPPLY

Beds of sand in the upper part of the Bucatunna at Brewton yield small quantities of water to wells. Flowing wells O-129, O-130, and O-145 obtain all or part of their supply from this source. Well O-129 had a hydrostatic pressure of 7.1 feet above the land surface and a flow of 6.0 gpm on May 2, 1955. In most parts of the county, the Bucatunna is relatively impermeable and is not a source of ground water.

CHICKASAWHAY LIMESTONE

GENERAL FEATURES

The Chickasawhay Limestone was named in the guidebook for the eleventh annual field trip of the Shreveport Geological Society (1934, p. 10) for exposures along the Chickasawhay River near Waynesboro, Miss. It was divided into the "Lower Chickasawhay Member" and an "Upper Chickasawhay Member." The name was applied to certain limestones, marls, and clays that were originally included in the Byram Marl by Cooke (1918, p. 196-197). Many sections in Alabama included in the Byram by Cooke are now included in the Chickasawhay. The Chickasawhay Limestone as used by MacNeil (1944, p. 1346) includes only the "Lower Chickasawhay Member" as designated in the guidebook. It is considered equivalent to the upper part of the Suwannee Limestone in Florida.

The Chickasawhay is overlapped by deposits of younger age and does not crop out in Escambia County. Where present in the subsurface, it overlies the Bucatunna Clay Member of the Byram Formation and is overlain by undifferentiated deposits of Miocene age. The Chickasawhay, based on electric, sample, and drillers' logs of numerous oil and water test wells, is overlapped and absent in the Teddy, Dixie, Fishpond, Kirkland, and Damascus areas in the northeastern part of the county.

THICKNESS AND LITHOLOGY

The Chickasawhay Limestone, where present, is as much as 70 feet thick in Escambia County. The formation generally is 10 to 25 feet thick in the eastern part of the county, 25 to 50 feet thick in the central part, and 40 to 70 feet thick in the western part.

The Chickasawhay, except in the Wallace and Brewton areas, consists chiefly of brown and gray dolomitic sandy porous fossiliferous limestone. Layers of dark-blue and greenish-gray sandy silty clay are generally interbedded with the limestone. The Chickasawhay is overlain by clay at the base of the Miocene.

In the Wallace area in the north-central part of the county, the Chickasawhay consists chiefly of alternating hard and soft layers of calcareous sand. In an area apparently confined to the southern part of Brewton, the Chickasawhay is predominantly sand. The lower 25 feet of the formation, as penetrated in well 0-150, consists of fine-grained sand.

WATER SUPPLY

Relatively few wells tap the Chickasawhay as a source of supply in Escambia County. Solution cavities are known to occur in the limestone only in the north Brewton area, however, it is probable that they occur elsewhere. Most wells tapping the formation are in the Brewton and Wallace areas and all are used for domestic and farm supplies. Solution cavities in the limestone in north Brewton yield small to moderate quantities of ground water to wells. Well O-76 taps a cavity in the limestone at a depth of 180 to 183 feet below the land surface. The well was pumped on January 5, 1957, at 20 gpm for 4 hours and had a drawdown of 7.6 feet. Flowing wells O-129 at Brewton and F-24 at Wallace tap sand beds in the Chickasawhay for all or part of their source of supply.

MIOCENE SERIES UNDIFFERENTIATED

GENERAL FEATURES

The Miocene deposits of Alabama were called the "Grand Gulf Strata" by Smith and others (1894, p. 97-99). MacNeil (1946a) divided the Miocene of the Coastal Plain of southern Alabama into two formations, the Paynes Hammock Sand at the bottom and the Catahoula Sandstone at the top. Miocene strata are not differentiated in this report.

Southern Alabama is the transition zone between the generally nonfossiliferous deltaic brackish-water and fluvial clastic Miocene deposits of Mississippi and the fossiliferous brackish-water and shallow marine clastic deposits of the Florida Panhandle (Toulmin, 1955a, p. 226). In Escambia County, most of the Miocene deposits are generally nonfossiliferous and appear to consist chiefly of fluvial nonmarine deposits.

Upland areas underlain by the Miocene deposits are characterized by a rolling to hilly topography. These uplands support large stands of timber with old field and long leaf pine predominating.

The undifferentiated Miocene deposits crop out extensively in eastern and central Escambia County (pl. 2). They dip south and

southwest 12 to 15 feet per mile. In the western part of the county, they are exposed in and along Little Escambia Creek and Escambia River and their tributaries. The Miocene deposits overlie the Chickasawhay Limestone except in the northeastern and north-central parts of the county where they overlap the Chickasawhay and rest on the Bucatunna Clay Member of the Byram Formation. The Miocene Series is overlain by the Citronelle Formation of Pliocene age.

Good exposures of the Miocene are observed in road cuts and on the slopes of stream valleys. Excellent exposures are located along U.S. Highway 31 southwest of Brewton.

THICKNESS AND LITHOLOGY

The undifferentiated Miocene Series crops out extensively in the eastern, central, and northwestern parts of the county (pl. 2). The thickness of the Miocene becomes progressively greater toward the south and southwest, and in the southwesternmost part of the county it is about 650 feet thick. The Miocene deposits in the eastern part of the county, where present, are as much as 265 feet thick. The approximate thickness of the Miocene at several localities along U.S. Highway 31 trending southwestward from Brewton are: Pollard, 350 feet; Flomaton, 400 feet; Wawbeek, 540 feet; Canoe, 560 feet; and Atmore, 560 feet. In the westernmost part of the county, the thickness ranges from 520 to 560 feet except near Freemanville and Nokomis where it is about 650 feet thick.

The Miocene consists chiefly of sand, sandy clay, and clay with subordinate beds of gravel. Mica and lignite are common and in some places the deposits are sparsely to moderately fossiliferous. Sandstone layers, some limonite cemented, with thicknesses of a few inches to several feet are interbedded with sand and clay in some areas. The sand consists chiefly of fine- to coarse-grained subangular to rounded quartz. The clay is usually referred to as "chalk" by drillers operating in the Escambia County area. The sands, sandstones, and clays are predominantly light gray to white but are commonly varicolored or mottled. The typical Miocene strata, as described above, are easily differentiated from the underlying sandy limestones and sandstones of Oligocene age in the subsurface of most of the county. However, in T. 2 N., R. 11 E. and in

and near the western half of the Conecuh National Forest in eastern Escambia County, strata comprising the basal part of the Miocene Series are very similar in composition and character to those in the underlying Chickasawhay Limestone. A sequence of alternating sandstone, sandy limestone, silt and silty clay beds comprise the basal part of the Miocene and the upper part of the Chickasawhay. This sequence is generally 60 to 75 feet thick, but in and near the vicinities of Camp Williams and Roberts it thickens to as much as 150 feet. The thickness of the sequence apparently increases in areas to the south and southwest. It is not differentiated and is included here in the Miocene Series.

WATER SUPPLY

Many wells obtain water for domestic and stock use from beds of sand and gravel in the Miocene Series in Escambia County. Sands with thicknesses of 5 to 25 feet in the eastern part of the county are poorly sorted and clayey and yield only small to moderate quantities of water to wells in that area.

Sand beds in the Miocene thicken and become more permeable in south-central and southwestern parts of the county. Individual beds, 40 to 55 feet thick, yield moderate to large quantities of water to wells. Wells O-162, W-4, and W-5 tap the Miocene and are sources of industrial supply. Well O-162, screened opposite sand 177 to 217 feet below the land surface, reportedly had a drawdown in water level of 24 feet when test pumped at 100 gpm for 8 hours on April 1, 1951. Well W-4 taps the basal Miocene sand and underlying aguifers in the Glendon Limestone Member of the Byram Formation, and the Marianna and Ocala Limestones. The Miocene is believed to be the principal aguifer tapped by the well. It was test pumped at 450 gpm for 24 hours with a drawdown in water level of 105.5 feet on July 9, 1956. The water level prior to pumping was 1.8 feet below land surface. The specific capacity determined by pumping was 4.3 gpm per foot of drawdown. Well W-5 is screened opposite sand in the Miocene Series at a depth of 241 to 256 feet below the land surface. It was test pumped at 43 gpm on February 22, 1957.

Flows are obtained by wells at Pollard that tap the Miocene at depths generally ranging from 50 to 310 feet below the land surface. The top of the basal sand of the Miocene in well W-98 at

Pollard is at a depth of 240 feet. The basal aquifer of the Miocene cannot be traced west of the Pollard area.

Flomaton municipal wells X-106 and X-107, with depths of 143 and 148 feet, respectively, develop large supplies of water from the Miocene. Well X-106, screened opposite sand at depths of 102 to 143 feet, had a reported drawdown of 15 feet when test pumped at 760 gpm for 1 hour. Municipal well Z-73 at Atmore taps sand in the Miocene at a depth of 208 to 261 feet. It was pumped at 463 gpm on April 24, 1957.

Wells used as a source of water supply for domestic and stock use obtain water from the Miocene in the area north of U.S. Highway 31 between Brewton and the Escambia River. Data are insufficient to determine the water-bearing potential of Miocene sands in the area. Drillers' logs indicate that clays are predominant in the upper Miocene and that the sand beds are relatively thin.

Two wells of large capacity tap the Miocene deposits west of Escambia River. Well H-68, used principally for irrigation, is screened opposite Miocene sand at depths of 228 to 253 feet and from 266 to 281 feet. The well had a drawdown of 19.4 feet after being pumped at 323 gpm for 24 hours in July 1957. Well K-1 at the Atmore State Prison Farm taps Miocene sand at a depth of 118 to 172 feet. It reportedly yields 250 gpm. Yields comparable to those obtained from wells II-68 and K-1 probably can be obtained from the Miocene deposits in most parts of the county west of Escambia River.

PLIOCENE SERIES

The Pliocene Series in Escambia County comprises the Citronelle Formation. Erosion of the older Miocene surface into a series of broad, shallow valleys was followed in later Pliocene time by deposition of the Citronelle. The stream-deposited Citronelle, composed predominantly of coarse-grained sediments, filled the eroded valleys and formed a broad plain that may have covered the entire county. Subsequent dissection by streams reduced the areal extent of the original broad plain in Escambia County (pl. 2).

CITRONELLE FORMATION

GENERAL FEATURES

The Citronelle Formation was named by Matson (1916, p. 168) for exposures at Citronelle, a town in the northern part of Mobile County, Ala. The formation is equivalent, in part, to deposits formerly classified as "drift," "orange sand," and "Layfayette."

The Citronelle consists chiefly of sand, clay, and gravel derived from the erosion of older Coastal Plain sediments. The formation dips southward 5 to 8 feet per mile. It unconformably overlies the undifferentiated deposits of Miocene age and is overlain by terrace and alluvial deposits of Pleistocene and Recent age. Good exposures of the Citronelle are common in Escambia County. The outcrop of the formation is most extensive west of Little Escambia Creek. East of Little Escambia Creek, the formation consists of small irregular outliers. The distribution of the formation in the county is shown on plate 2.

The land surface formed on the formation is typically flat to gently rolling and is used extensively for farming. The major soil types, red and brown fine sandy loam, are well suited for diversified agriculture. They are utilized chiefly for the production of cotton, corn, and potatoes, and for pasture land.

THICKNESS AND LITHOLOGY

The Citronelle Formation in Escambia County, where present, is as much as 140 feet thick. The thickness varies little in a given area because of the relatively flat topography and the low dip of the beds.

The Citronelle is best developed in the county west of the Escambia River where its average thickness is probably greater than 100 feet. The maximum thickness, 140 feet, was penetrated in an oil test well near Atmore. A thickness of 135 feet was penetrated in well Z-73 at Atmore.

The Citronelle Formation in Escambia County consists chiefly of sand and gravel with subordinate beds or lenses of clay. The sand is locally crossbedded and generally consists of fine to very coarse grained rounded to subangular quartz. The clays are generally lenticular. Sand and clay in the formation are white to gray except where weathered.

WATER SUPPLY

The Citronelle Formation is the principal source of water supply in the western part of Escambia County. Beds of sand and gravel supply small to large quantities of water to many wells throughout the area. The formation also furnishes water to domestic and stock wells in the eastern part of Escambia County.

Industrial and public supply wells obtain moderate to large quantities of water from the Citronelle in western Escambia County. Public supply well J-7 at McCullough had a reported yield of 30 gpm in 1951. Basal sands and gravels in the formation yield large quantities of water to municipal wells Z-71 and Z-72 at Atmore. Well Z-72, tapping coarse sand and gravel at a depth of 100 to 129 feet below the land surface, had a measured yield of 333 gpm on April 24, 1957.

Wells developed in the Citronelle at depths less than 65 feet are generally under water-table conditions while those developed at greater depths below layers of confining clay are under artesian conditions. However, there are no flowing wells in the Citronelle in Escambia County.

The yield of wells in the Citronelle varies in different areas and is dependent upon such factors as the permeability and the thickness of the saturated aquifer. In most areas west of the Escambia River, yields comparable to those obtained at Atmore probably could be obtained by properly constructed wells tapping the basal part of the formation. Permeable beds above the basal sand would be a source of moderate supplies in the same area.

PLEISTOCENE AND RECENT SERIES

GENERAL FEATURES

Terrace deposits of Pleistocene age and river alluvium of Recent age occur in and adjacent to stream channels in Escambia County. These deposits overlie, in places, all formations of older age that crop out in or near major streams and tributaries in Escambia County. Sediments that comprise these deposits were, for the most part, derived from the erosion of older rocks of Tertiary age. The unconsolidated sediments, consisting chiefly of sand, gravel, silt, and clay, were deposited as alluvium in the stream channels.

Pleistocene terrace deposits are benchlike surfaces which occur at elevations above the present flood plain. They are remnants of older flood plains formed by streams that occupied the valleys during earlier stages of development. The ancient streams incised to lower elevations leaving portions of their former flood plains at higher elevations as terraces. The highest terrace, therefore, is the oldest flood plain.

Terrace and alluvial deposits are present in lowland areas commonly known as "first, second, and third bottoms." The flood plain occupies the first bottom. It is generally a sparsely settled low swampy area covered by a dense growth of vegetation. The poorly drained gray soils support corn, sugar cane, or cattle. The terraces (second and third bottoms) are flat to slightly rolling surfaces underlain by gray sandy loam soils. These soils are best suited for growing timber, corn, sugar cane, and cotton. The terrace deposits and alluvium are differentiated on the geologic map (pl. 2).

Two or more terraces have been identified above the present flood plains in Escambia County. The terraces were not differentiated on the geologic map (pl. 2) because adequate topographic control was not available. They are most extensive and best developed along the Sepulga and Conecuh Rivers and it is only along these waterways that the deposits were mapped. Terrace deposits along other streams and tributaries in the county were not mapped because of their limited extent and thickness.

THICKNESS AND LITHOLOGY

Alluvial deposits near the junction of Conecuh River and Murder Creek in secs. 6 and 7, T. 1 N., R. 10 E., based on 29 shallow test borings, had an average thickness of about 30 feet and a maximum thickness of 55 feet. This thickness is believed to be similar to that of alluvial deposits immediately adjacent to major streams in the area. The alluvial deposits thin to a featheredge at the margins of the flood plains. The thickness of the terrace deposits is believed to be similar to that of the alluvium.

The alluvial and terrace deposits are similar in lithology and consist chiefly of varicolored unconsolidated sand, gravel, silt, and clay. The deposits are generally micaceous and the alluvial deposits appear to be more clayey along the margins of the flood plains. The sand is fine to coarse grained and poorly sorted.

WATER SUPPLY

Small supplies of water adequate for domestic and stock use are obtained from shallow wells penetrating beds of sand and gravel in river alluvium and terrace deposits in Escambia County. Moderate quantities can probably be obtained from beds of sand and gravel that are of sufficient thickness. Most of the wells are constructed with small diameter casing with attached sand point or screen. They are generally equipped with pitcher or small electric pumps.

Moderate to large quantities of water may be available in some areas by induced filtration where there is a hydraulic connection between the stream bed and the unconsolidated aquifer. To obtain the additional supplies, the normal slope of the water table from the alluvium to the stream would be reversed by pumpage to allow recharge from the stream to the aquifer.

GROUND WATER

SOURCE

Ground water is the water below the land surface that occurs in a zone where the enclosing material is fully saturated. The top of the saturated zone is called the water table, and its position is shown by the level at which water stands in nonartesian wells. Only that part of the subsurface water that lies beneath the water table in the zone of saturation can be pumped from wells or will flow from springs. Ground water is derived from precipitation, and in Alabama the precipitation is principally rain. A part of the precipitation flows into streams and lakes as direct runoff, a part returns to the atmosphere through evaporation and transpiration, and a part seeps downward through the soil and rocks to become ground water. A classification of the divisions of subsurface water is shown in figure 7.

Water seeping down through the soil first enters the zone of aeration which lies between the land surface and the zone of saturation. A part of the water entering the zone of aeration is used to satisfy soil-moisture requirements, being held in this zone by molecular forces which counteract the force of gravity, and a part seeps to the water table and into the zone of saturation. All openings in the zone of saturation are filled with water, and it is the water in this zone that can be obtained by wells and that flows from springs.

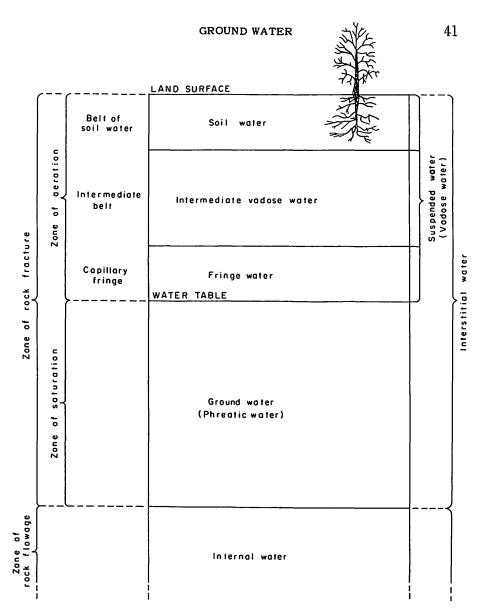


Figure 7.-Diagram showing divisions of subsurface water.

OCCURRENCE AND STORAGE

Ground water occupies pores, fractures, and solution openings in the rocks. The size, shape, and distribution of the openings in the rocks vary considerably from place to place and from rock type to rock type, and they control the storage and movement of ground water.

The porosity of a rock is its property of containing voids or open spaces. Porosity is the ratio, expressed as a percentage, of open space in a rock to its total volume. The porosity is influenced by the size, shape, and arrangement of particles; by the degree of sorting, compaction, and cementation of the particles; and by the amount of fracturing, solution, and recrystallization of the rock after its initial formation.

The permeability of a rock is a measure of its capacity to transmit water under a hydraulic gradient. Permeability may be expressed as a coefficient that measures the rate in gallons per day at which water will move through 1 square foot of the rock under a hydraulic gradient of 1 to 1 (loss of head of 1 foot for each foot of travel of the water, whatever the direction of movement). Clay generally has a high porosity but a low permeability because its pore spaces, though numerous, are very small. A sand or gravel may have a lower porosity than clay but have a high permeability because the interconnected open spaces are large. Permeable rock zones through which ground water moves freely enough to supply wells are called aquifers.

THE WATER TABLE

The water table is defined as the upper surface of the zone of saturation except where that surface is formed by the bottom of a bed of clay or other relatively impermeable material which confines the water under artesian pressure. Unconfined water in the zone of saturation moves through the rocks in a direction determined by the slope of the water table. The water table is not a level or stationary surface; variations from place to place and from time to time in its shape and elevation occur as a result of such factors as the permeability and structure of the rocks, topography, variations in the rate of withdrawal of water from wells and springs, and variations in rainfall which affect the rate of recharge. A schematic diagram showing artesian and water-table conditions is shown in figure 8.

Water-table conditions prevail in Escambia County in beds of sand and gravel in alluvial and terrace deposits along the rivers and their larger tributaries and in the outcrop areas of the various formations. Wells less than 65 feet deep generally tap aquifers that are controlled by water-table conditions. The water levels in these wells fluctuate in response to or a lack of precipitation and many have gone dry during prolonged drought.

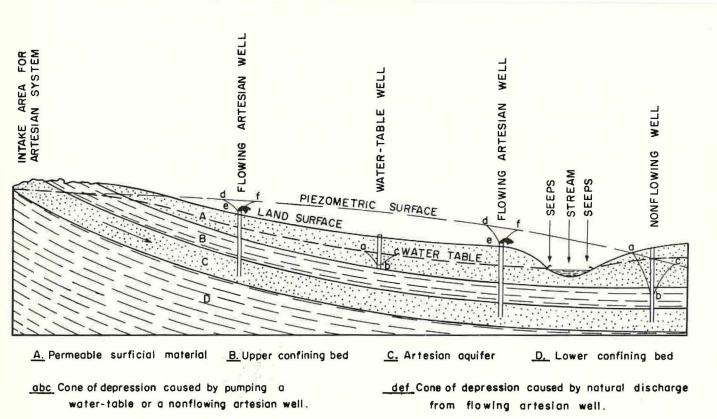


Figure 8.-Schematic diagram showing artesian and water-table conditions.

ARTESIAN CONDITIONS

The principal artesian aquifers in Escambia County are the permeable beds of sand, gravel, and limestone in the Eocene, Oligocene, Miocene, and Pliocene Series that dip south and southwest 5 to 50 feet per mile. Rainfall and runoff seeps into the aquifer where it is exposed and percolates downgradient to become confined between relatively impermeable beds of clay, chalk, marl, or similar materials. The pressure exerted on ground water in a confined aquifer by the weight of water at higher levels in the same aquifer is known as hydrostatic pressure.

When a well penetrates a confined aquifer downdip from its intake area, the hydrostatic pressure causes the water to rise above the bottom of the confining layer and the well is said to be artesian. The imaginary surface to which the water will rise in tightly cased artesian wells is called the piezometric surface. An artesian well will flow if the altitude of the piezometric surface is above that of the land surface (fig. 8).

Artesian conditions prevail throughout the county in aquifers at a depth of 65 feet or more. Artesian flowing wells tapping aquifers in the Eocene, Oligocene, and Miocene Series are obtained in lowland areas in and adjacent to the major streams in Escambia County. The areas of artesian flow in the county are shown on plate 1.

Flowing wells are common in the eastern and parts of central Escambia County. They range in depth from 65 to 940 feet. In areas adjacent to the Sepulga River in the northeastern part of the county, flows of as much as 20 gpm are obtained from the Marianna Limestone of the Oligocene Series and the Ocala Limestone, Yazoo Clay, Moodys Branch Formation, and Gosport Sand of the Eocene Series. Flowing wells in this area tap two or more aquifers for their source of supply. Flowing wells tapping the Gosport Sand in conjunction with overlying aquifers can probably obtain flows in areas adjacent to the river that have an altitude of less than 150 feet.

Numerous flowing wells are obtained in lowland areas adjacent to the Conecuh River and its larger tributaries. Measured flows obtained from wells in the Brewton and East Brewton areas range from 0.4 to 205 gpm. Wells generally tap two or more of the following aquifers: Miocene Series undifferentiated; the Chickasawhay Limestone, Glendon Limestone Member of the Byram Formation.

and Marianna Limestone in the Oligocene Series; and the Ocala Limestone, Yazoo Clay, Moodys Branch Formation, Gosport Sand, and Lisbon Formation in the Eocene Series. The largest measured flow, 205 gpm, is obtained from well O-111 tapping the Lisbon, Gosport, Moodys Branch, Yazoo, Ocala, Marianna, and Glendon. Large flows can probably be obtained from wells tapping the Lisbon and overlying aquifers in the Brewton area where the altitude of the land surface is 85 feet or less.

Flows are obtained from wells in the flood plain of Little Escambia Creek at Pollard, Wallace, and Foshee. Most of these wells tap aquifers in the Miocene and Oligocene Series. Flowing wells at Pollard are as much as 600 feet deep, however, most of them tap relatively shallow aquifers in the Miocene Series at depths of 100 feet or less. The largest flow, from the Miocene, about 60 gpm, is obtained from well W-132 at a depth of 100 feet. Larger flows can be obtained from aquifers in the Oligocene and Eocene Series. Wells which formerly flowed from the Miocene at Flomaton have ceased to flow. In the Wallace area, flows of as much as 11.5 gpm are obtained from the Miocene deposits and the Chickasawhay, Glendon, Marianna, and Ocala.

METHODS OF RECOVERY OF WATER

Almost all municipal, industrial, and domestic water supplies in Escambia County are obtained from wells. The amount of water withdrawn from individual wells in the county, when needed, varies from a few gallons per minute for domestic supply to about 800 gpm for public supply.

When a well is pumped or is allowed to flow, a hydraulic gradient is established that slopes toward the well from all directions, and the water level is lowered around the well causing a depression in the water table or piezometric surface. This depression, in the approximate form of an inverted cone with its apex at the well, is known as the cone of depression (fig. 8). During the early part of withdrawal, the water level declines rapidly, and most of the water comes from that part of the aquifer comparatively close to the well. However, as withdrawal continues, the water level declines more slowly as the cone of depression expands and water moves to the well from progressively greater distances. The water level will continue to decline, although at a diminishing rate, and the cone of depression will continue to expand until the cone eventually

extends to the limits of the aquifer, unless sufficient natural discharge is salvaged or sufficient recharge induced to halt its expansion.

The specific capacity of a well is an index to its productivity, and is defined as its rate of discharge per unit of drawdown. Specific capacity is ordinarily determined by dividing the discharge of the well, in gallons per minute, by the drawdown, in feet, and is expressed in gallons per minute per foot of drawdown.

WATER-LEVEL FLUCTUATIONS AND THEIR SIGNIFICANCE

Fluctuations of the water levels in wells can be correlated with recharge or lack of recharge, withdrawals by pumping or by natural flows from springs and wells, barometric fluctuations, ocean and earth tides and other loading of the earth's crust, and earthquakes. Shallow water-table wells and springs respond with rising water levels or increased spring flows a few hours or days after precipitation and with declining water levels or decreased flows during drought. The intensity and duration of rainfall and the permeability of the soil and underlying rock affect the amount of water that infiltrates as recharge to cause variations in water levels. The best recharge conditions usually occur with moderately intense rains of long duration. Heavy downpours of short duration afford little opportunity for maximum recharge because most of the water not retained in the soil is lost to surface runoff.

The seasonal fluctuations of water levels in shallow wells in Escambia County are cyclic and are related directly to rainfall. The average monthly precipitation is greatest in March, April, July, and August. The period of highest water table generally occurs in March and April because of the continuous and large amount of recharge from the rains and the low evaporation and transpiration rates. The water table is generally lowest in October and November when the precipitation is least.

Water levels in eight wells in Escambia County were measured monthly and biweekly during 1955, 1956, and 1957. Of these wells, one taps the Yazoo Clay in the Eocene Series, two tap the Ocala and Marianna Limestones and the Glendon Limestone Member of the Byram Formation in the Eocene and Oligocene Series, one taps the Chickasawhay Limestone in the Oligocene Series, two tap the Citronelle Formation in the Pliocene Series, and

two tap terrace deposits in the Pleistocene Series. Hydrographs of wells tapping the Eocene and Oligocene Series are shown on figure 9 and those tapping the Pliocene and Pleistocene Series are shown on figure 10. The water-level fluctuations in these wells can be correlated with precipitation.

Available data indicate that declines in water levels in Escambia County have not been significant except in areas of heavy withdrawal for municipal and industrial use or in areas of artesian flow. Many artesian wells have ceased to flow owing to declines in artesian pressures caused by continuous discharge for long periods of time. It is estimated that more than 2 million gallons per day of ground water flows to waste in Escambia County. Many of the flowing wells are not equipped with valves to regulate the flows.

MUNICIPAL SUPPLIES

Wells are the principal source of water supply for industries and municipalities at Atmore, Brewton and East Brewton, Flomaton, and Pollard. Most wells in the smaller communities and rural areas are privately owned and furnish water principally for domestic and farm use. Most privately owned wells are of small diameter and tap sand and gravel beds at depths generally less than 100 feet.

ATMORE

Municipal and most industrial water supplies in Atmore are obtained from three public supply wells, two tapping the Citronelle Formation and one tapping the underlying undifferentiated Miocene Series.

Well Z-72, the oldest municipal well in operation at Atmore, was drilled in 1932. It is cased to 100 feet and screened from 100 to 129 feet opposite coarse sand in the Citronelle Formation. Well Z-71, drilled in 1935, taps the Citronelle at a depth of 100 to 120 feet. Well Z-73, drilled in 1948, taps sand and gravel in the Miocene Series at a depth of 208 to 261 feet. During an aquifer test on April 24, 1957, wells Z-72 and Z-73 were pumped at average rates of 333 and 463 gpm, respectively. Water obtained from the wells, based on the results of chemical analyses (table 5), is of good quality being soft, slightly acidic, and low in chloride content. The iron content, 0.3 ppm for wells Z-71 and Z-72, if untreated, may be objectionable for some uses.

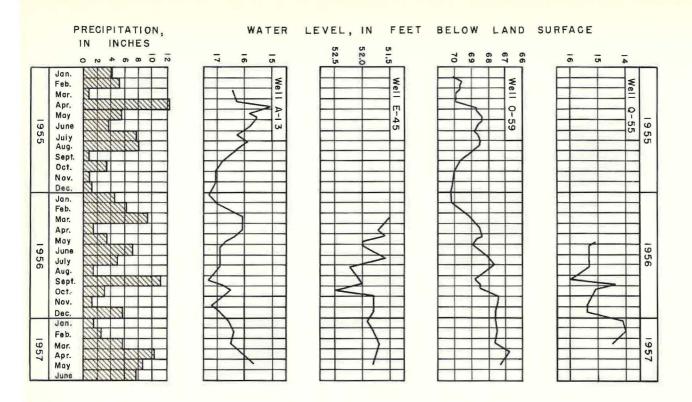


Figure 9.—Fluctuation of water levels in wells A-13, E-45, O-59, and Q-55 tapping the Eocene and Oligocene Series, and monthly precipitation at Brewton.

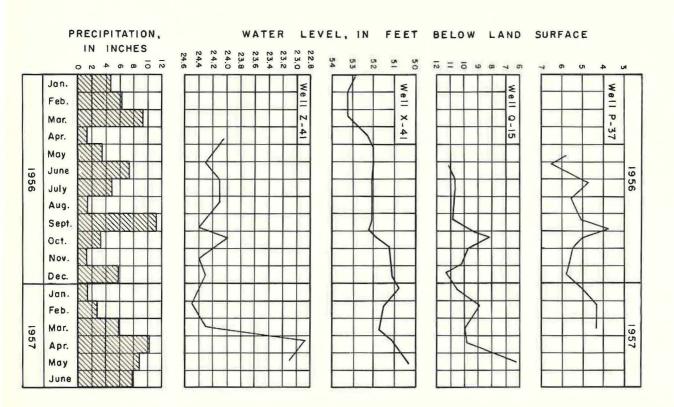


Figure 10.—Fluctuation of water levels in wells P-37, Q-15, X-41, and Z-41 tapping the Pliocene and Pleistocene Series, and monthly precipitation at Brewton.

BREWTON AND EAST BREWTON

Information on ground water in the Brewton area was first published in 1907 (Smith, p. 269-271). Smith reported that numerous wells 40 to 400 feet deep supplied the needs of the inhabitants and industries. Most of the wells were 65 to 80 feet deep and flowed 2 to 5 gpm. Water from these wells was reported to be "strongly chalybeate" (high in iron).

The first public supply well (O-146) was reportedly drilled to a depth of 940 feet prior to 1915. The well was later abandoned and was flowing 6.1 gpm on January 13, 1955. The second public supply well (O-147) was drilled in 1915 to a reported depth of 633 feet. The well, not used as a source of public supply since about 1953, supplies water to a local industry. It flowed 180 gpm on March 4, 1957. Both wells tap the Lisbon Formation.

Municipal wells O-95, O-140, and O-150, drilled between 1929 and 1955, tap the Lisbon Formation. Wells O-95 and O-150 are pumped regularly and O-140 only occasionally as needed. Well O-141 was drilled in 1954 to supply water to the public swimming pool.

Pumpage from wells O-95 and O-150, for the period July 1, 1956 through June 30, 1957, is shown on figure 11. The average combined daily pumpage from both wells for the above period was 395,300 gallons.

East Brewton, prior to 1949, obtained its water supply from Brewton. Municipal well O-174, drilled in 1949, taps the Lisbon Formation at depths of 618 to 638 and 679 to 709 feet and is the source of supply for East Brewton. The average daily pumpage from this well from August 16, 1955 to June 10, 1957, was about 133,000 gallons.

Many privately owned wells in the Brewton and East Brewton area tap aquifers above the Lisbon Formation. The lithology and electrical properties of the formations underlying the area, as penetrated in the test hole drilled at the site of well O-150, are shown in figure 5. The water-bearing characteristics of each of the geologic units are given in table 1. Additional moderate to large quantities of ground water in the area can be obtained from properly spaced wells tapping the Lisbon Formation and sand and gravel beds in the Miocene Series, sand and limestone beds in the Oligocene Series, and sand and limestone beds in the Eocene Series.

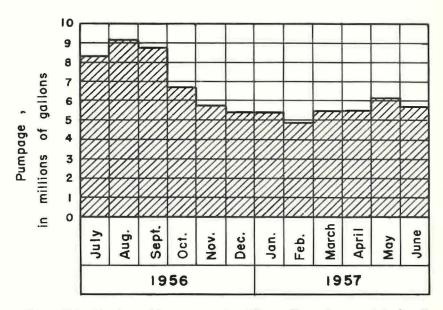


Figure 11A.—Total monthly pumpage, in million gallons, from municipal well O-95 at Brewton for the period July 1956 through June 1957.

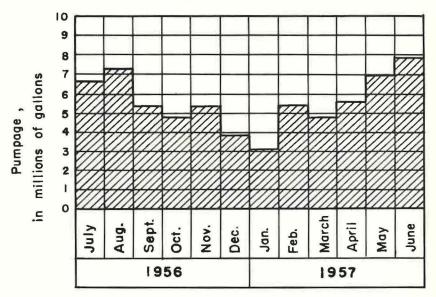


Figure 11B.—Total monthly pumpage, in million gallons, from municipal well O-150 at Brewton for the period July 1956 through June 1957.

Chemical analyses available for water obtained from the municipal supply wells at Brewton and East Brewton indicate that the water is of good quality. The water is moderately hard, low in chlorides, and alkaline.

FLOMATON

Wells supply most of the water used for municipal, industrial, and domestic purposes in Flomaton. Private and public supply wells tap terrace and alluvial deposits, the Citronelle Formation, and the undifferentiated Miocene deposits for their source of supply. Prior to 1928, Flomaton obtained its public supply from three flowing wells which were located at the site of well X-107 (pl. 1). These wells flowed into a 60,000-gallon reservoir. In 1928 an additional well (nonflowing) was drilled to a depth of 104 feet. Use of this well was later discontinued and a second well, X-107, was drilled. It taps coarse sand and gravel in the Miocene Series at depths of 118 to 148 feet. The reported yield of the well in 1945 was 100,000 gallons per day.

Customer taps on the Flomaton water system increased from 111 in 1944 to 300 in 1951. This increase in water use resulted in the drilling of municipal well X-106 in 1952. Well X-106 taps the Miocene Series at a depth of 102 to 143 feet. The well had a reported drawdown of 15 feet after being pumped 1 hour at 760 gpm in September 1952.

Flows can probably be obtained in lowland areas at Flomaton from wells that tap Miocene and older aquifers at depths greater than those that furnish water to existing wells. The depth of the flowing wells, one of which had a reported water level of 12 feet above the land surface, that formerly supplied the needs at Flomaton are not known. It is probable that the wells had a depth similar to that of a well drilled at the home of G. A. Ivey in 1905 and reported by Smith (1907, p. 72-73). The Ivey well was reportedly 311 feet deep with a water level of 8 to 10 feet above the land surface.

Chemical analyses of water from wells at Flomaton (tables 4 and 5) indicate that the water is soft, acidic, and low in chlorides. Owners of some wells in the area have reported objectionable amounts of iron.

POLLARD

In 1907, Smith (p. 271-272) reported that numerous flowing wells supplied the needs of Pollard. He furnished information for eleven wells that were 73 to 104 feet deep, flowed 1 to 25 gpm, and had water levels of 2 to 8 feet above the land surface. Most, if not all of the wells, are no longer in use. Many privately owned flowing wells that tap the Miocene Series are the major source of water used for all purposes in and near Pollard.

Municipal well W-109 supplies water to several families at Pollard. The well, reported to be 600 feet deep, taps the Glendon Limestone Member of the Byram Formation and the Marianna and Ocala Limestones. It had a measured water level of 64.5 feet above the land surface on February 10, 1955. A well tapping aquifers in the Miocene Series in conjunction with those in the underlying Glendon Limestone Member of the Byram Formation and the Marianna and Ocala Limestones in the Oligocene and Eocene Series would probably yield 500 gpm or more in the Pollard area.

Preliminary chemical analyses indicate that water from alluvial, terrace, and Miocene deposits in the Pollard area is soft to moderately hard and low in chlorides, but according to reports often contains objectionable amounts of iron. Water from aquifers below the Miocene is moderately hard. Partial analyses indicate that the water is generally of good quality and suitable for most uses.

AQUIFER TESTS

Four aquifer tests were made to determine the hydraulic characteristics of the major aquifers in Escambia County. The main characteristics are the coefficients of transmissibility and storage, which indicate the capacity of an aquifer to transmit water and to yield water from storage, respectively.

The coefficient of transmissibility represents the amount of water, in gallons per day, that will flow through a vertical strip of water-bearing material 1 mile wide under a hydraulic gradient of 1 foot per mile (or 1 foot wide under a gradient of 1 foot per foot). Therefore, the volume of water that will flow each day through each mile of water-bearing material is the product of the hydraulic gradient and the coefficient of transmissibility.

The coefficient of storage of an aquifer is the volume of water it 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. The coefficients of transmissibility and storage computed from aquifer tests made in Escambia County are given in table 2.

Table 2.-Coefficients of transmissibility and storage computed from aquifer tests, Escambia County

| Well pumped | Well observed | Geologic unit(s) tapped | Part of hydrograph analyzed | Trensmissibility (gallons per day per foot) | Coefficient of storage | |
|----------------|------------------|----------------------------|-----------------------------------|---|---------------------------|--|
| H-68 H-68 | | Miocene | Recovery | 74,800 | | |
| 0-150 | 0-141 | Lisbon | Drawdown | 27,750 | 7.85×10-6 | |
| 1000 | 0-147 | Lisbon | Drawdown | 23,000 | 1.04×10 ⁻⁵ | |
| W-4 | W-4 | Miocene, Glendon, | Recovery | 12,850 | 7.7.7 | |
| | | Marianna, Ocala | | | | |
| Z-72 | Z-71 | Citronelle | Drawdown | 77,600 | 2.86×10-6 | |
| | Z-71 | Citronelle | Recovery | 79,500 | 3.46×10-6 | |

An aquifer test of wells tapping the basal sand of the Lisbon Formation at Brewton was made in April 1957. Fluctuations of water levels in the pumped well (O-150) and in the observation wells are shown in figure 12. Well O-150 had a drawdown in water level of 147.5 feet after pumping 787 gpm for 16.6 hours. The specific capacity was 5.3 gpm per foot of drawdown. The coefficients of transmissibilities determined for observation wells O-141 and O-147 were 27,750 and 23,000 gallons per day per foot and the coefficients of storage 7.85x10⁻⁶ and 1.04x10⁻⁵, respectively.

Figure 13 shows in a general way the theoretical drawdowns that would be produced by pumping 500 gallons per minute from an ideal aquifer having coefficients of transmissibility and storage the same as the average of those computed for observation wells O-141 and O-147. The average coefficients for the Lisbon Formation at Brewton should be used only for that area, because of the variable thickness of the basal sand.

An aquifer test on well W-4 at the Container Corp. of America southwest of Brewton was made in July 1956. The well taps the Miocene Series, the Glendon Limestone Member of the Byram Formation, and the Marianna and Ocala Limestones. The well had a drawdown in water level of 105.5 feet after pumping 450 gpm for 24 hours. The specific capacity was 4.3 gpm per foot of

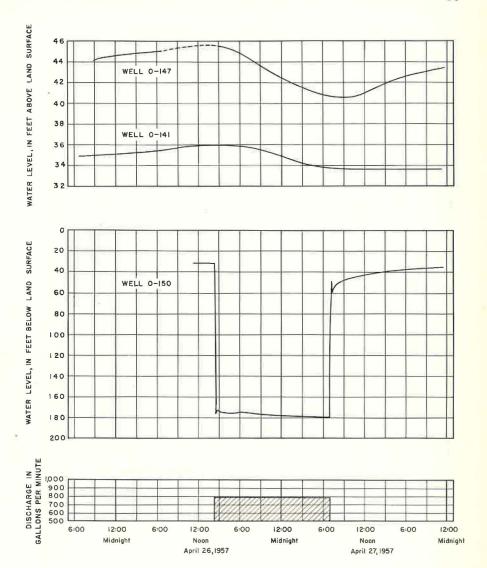


Figure 12.—Water-level fluctuations in wells tapping the Lisbon Formation at Brewton during aquifer test on well O-150.

drawdown. Water-level fluctuations in the well during the test are shown in figure 14. The results of the test indicate a coefficient of transmissibility of 12,850 gallons per day per foot. Because of the multiple aquifer developed in well W-4 and the variable thickness of the Miocene Series, these data should be applied only to wells tapping the same aquifers in the general area near well W-4.

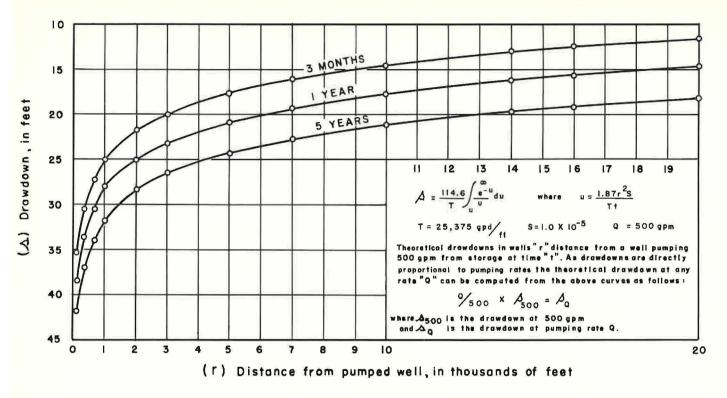


Figure 13.—Theoretical drawdown in an ideal aquifer, having coefficients of transmissibility and storage the same as the average of those computed for observation wells 0-141 and 0-147 tapping the basal sand of the Lisbon Formation at Brewton.

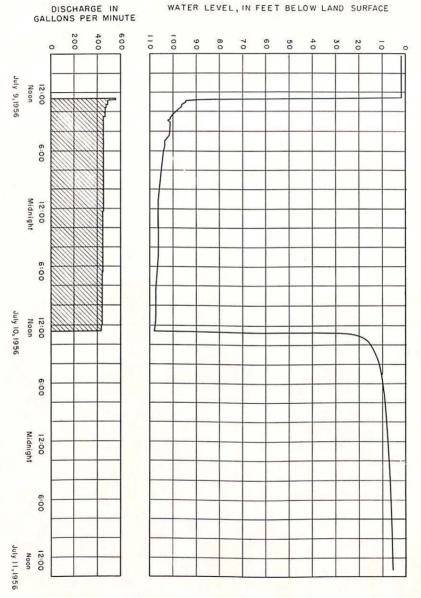


Figure 14.-Water-level fluctuations in well W-4 during aquifer test.

An aquifer test on well H-68 tapping the Miocene Series at the Hauss State Forest Nursery south of Huxford was made in June 1957. The well had a drawdown in water level of 19.4 feet after pumping 323 gpm for 24 hours. The specific capacity was 16.6 gpm per foot of drawdown and the coefficient of transmissibility 74,800 gallons per day per foot. Water-level fluctuations in well H-68 during the pumping and recovery period are shown in figure 15. These data, because of the variable thickness of the Miocene Series, should be applied only in the general area near well H-68.

An aquifer test of municipal well Z-72 tapping the Citronelle Formation at Atmore was made in April 1957. Well Z-72 was pumped at 333 gpm for 9 hours. The coefficients of transmissibility and storage computed from drawdown data for observation well Z-71 were 77,600 gallons per day per foot and 2.86×10^{-6} , and from recovery data were 79,500 gallons per day per foot and 3.46×10^{-6} . Water-level fluctuations in observation well Z-71 during the test are shown in figure 16.

Figure 17 shows in a general way the theoretical drawdowns that would be produced by pumping 500 gallons per minute from an ideal aquifer having coefficients of transmissibility and storage the same as the average of those computed from drawdown and recovery data for observation well Z-71. Because of the variable thickness of the Citronelle Formation in Escambia County, hydraulic characteristics computed for the formation at Atmore should be applied only in that general area.

CHEMICAL QUALITY

Percolating water dissolves minerals from soils and rocks through which it passes. The amount and character of the dissolved mineral matter in water depend on the chemical composition and physical characteristics of rocks through which the water passes, the duration of contact, the presence or absence of carbon dioxide, and other factors, such as temperature and pressure.

The more common mineral constituents in ground water are silica, iron, calcium, magnesium, sodium, potassium, bicarbonate, sulfate, chloride, fluoride, and nitrate. The relative amounts of each of the minerals that are present depend mainly on the chemical character of the rocks through which the water passes. For example, water in limestone aquifers is commonly high in calcium and magnesium, the principal alkaline earth minerals causing hardness in natural waters. Where water has migrated considerable distances through rocks of varying character, quality-of-water data are difficult to interpret. For a more complete discussion of the

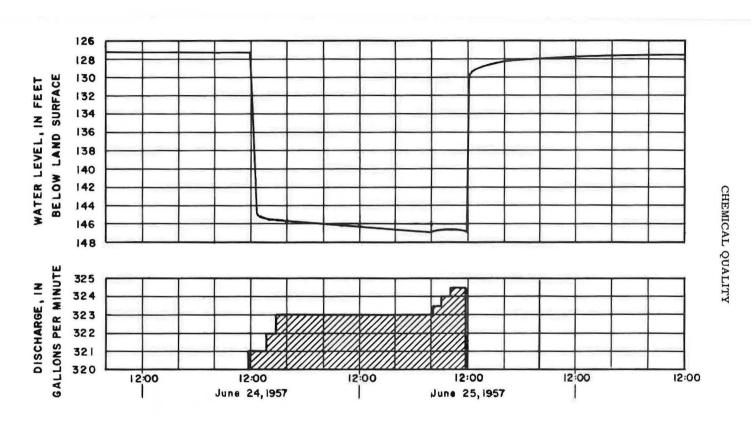


Figure 15.-Water-level fluctuations in well H-68 during aquifer test.

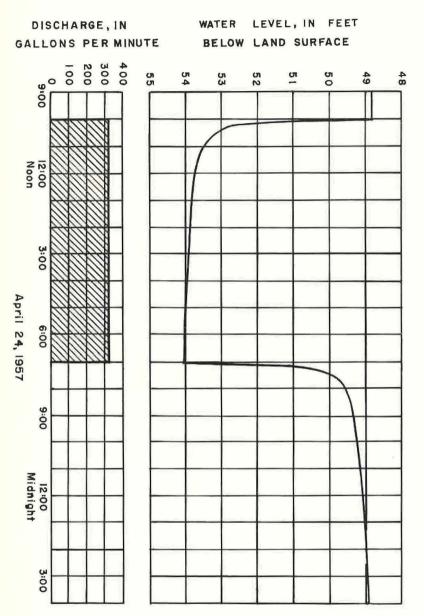


Figure 16.-Water-level fluctuations in well Z-71 at Atmore during aquifer test.

interpretation of quality-of-water data, the reader is referred to Hem (1959).

The quality of water may restrict its use for many purposes. Exact limits of dissolved minerals that can be tolerated for specific

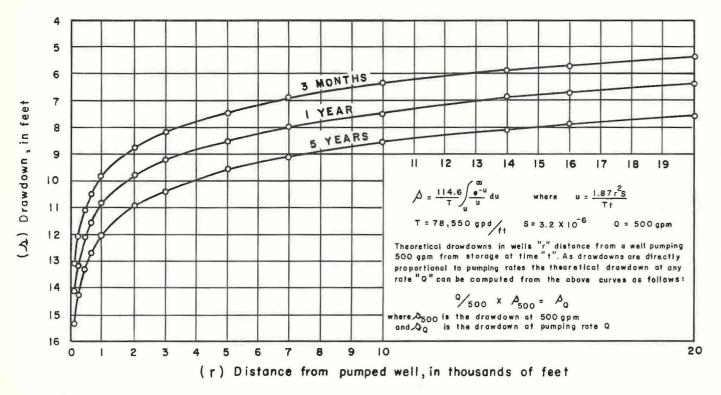


Figure 17.—Theoretical drawdown in an ideal aquifer, having coefficients of transmissibility and storage the same as the average of those computed from drawdown and recovery data for observation well Z-71.

uses are difficult to define. Table 3 gives suggested limits for water quality as used for various manufacturing purposes (New England Water Works Association, 1940, p. 263).

Standards for drinking water established by the U.S. Public Health Service (1962) to control the quality of water supplied by common carriers commonly are quoted as limits for drinking water. According to these standards, supplies should not contain more than 0.3 ppm (part per million) of iron, 0.05 ppm of manganese, 250 ppm of sulfate, 250 ppm of chloride, 0.8 to 1.7 ppm of fluoride (depending on the annual average of maximum daily air temperatures), 45 ppm of nitrate, and 500 ppm of total dissolved solids. A part per million is a unit weight of a constituent in a million unit weights of solvent.

The hardness of water should not exceed 150 ppm because of the soap-consuming properties of hard water and the objectionable insoluble curd formed in washing processes in which soap is used. The relative terms soft, moderately hard, hard, and very hard are used in this report to describe water hardness. The ranges in hardness that govern the use of each term are as follows: soft, 0 to 60 ppm; moderately hard, 61 to 120 ppm; hard, 121 to 180 ppm; and very hard, 181 ppm or more.

Fluoride in drinking water in excess of approximately 1.5 ppm may cause mottling of the enamel of children's teeth if used during the period of calcification.

Large amounts of iron or manganese are objectionable because of the taste and the staining of porcelain or enamel fixtures, clothing, and other fabrics.

Nitrate in ground water is generally considered a final oxidation product of organic material. Nitrate is often present in water in small quantities, but a high concentration may indicate pollution by sewage or other organic material. Investigations have shown that water containing high amounts of nitrate can cause infant cyanosis, or the so-called "blue baby" disease (Maxcy, 1950, p. 265).

The hardness and chloride content of water from 969 wells in Escambia County were determined by field analysis. The results of these analyses are given in table 4 and were used as a

Table 3.-Suggested water-quality tolerances for selected industrial uses 1

| | | | | | | | llowable mits in ppm | | | |
|----------------------|-----------|--------|----------------------------------|-------------------|--------------------|-----------------|-------------------------------|----------------|---------------------|--|
| Industry or use | Turbidity | Color | Hardness as CaCO ₃ | Iron as Fe | Manganese as Mn | Total solids | Alkalinity as CaCO3 | Odor, taste | Hydrogen sulfide | Other requirements ³ |
| Air conditioning | | | | ²0.5 | 0.5 | | | Low | 1 | No corrosiveness, no slime formation. |
| Baking | 10 | 10 | | 2 .2 | .2 | | | Low | .2 | P 3 |
| Canning legumes | 10 | | 25-75 | 2.2 | .2 | | | Low | 1 | P |
| General | 10 | | | 2.2 | .2 | | | Low | 1 | P |
| Carbonated beverages | 2 | 10 | 250 | .2 | .2 | 850 | 50-100 | Low | .2 | P. Organic color plus oxygen consumed |
| | | | | ² (.3) | | | | | | less than 10 ppm. |
| Cooling | 50 | | 50 | ² .5 | .5 | | | | 5 | No corrosiveness, no slime formation. |
| Ice | 5 | 5 | | 2.2 | .2 | | | Low | | P. SiO ₂ less than 10 ppm. |
| Laundering | | | 50 | .2 | .2 | | | | | |
| Tanning | 20 | 10-100 | 50-135 | 2.2 | .2 | | Total 135, Hyd- rox- | | | |
| | | | | | | | ide, 8 | | | |
| Textiles, general | 5 | 20 | | .25 | .25 | | | | | |
| Dyeing | 5 | 5-20 | | ² .25 | .25 | 200 |] | | | Constant composition. Residual alumina |
| | | | | | | | Ì | | | less than 0.5 ppm. |
| Wool scouring | | 70 | | 2 1.0 | 1.0 | | | | | |
| Cotton bandage | 5 | 5 | | 2 .2 | .2 | | | Low | | |

From New England Water Works Assoc. Jour., v. 54, p. 271, 1940.

Limit given applies both to iron alone and to the sum of iron and manganese.

P indicates that potable water, conforming to U.S. Public Health Service standards, is necessary.

guide in determining the wells to be resampled for more comprehensive analysis. The results of 55 partial chemical analyses of water samples collected from wells in Escambia County are given in table 5.

HATCHETIGBEE FORMATION

Wells in Escambia County do not tap the Hatchetigbee Formation because of its depth and the availability of water in overlying aquifers. It is probable that permeable sands in the formation may be a potential source of moderate to large quantities of water. Electric logs of oil test wells penetrating the Hatchetigbee in central and eastern parts of the county indicate that water in its aquifers is low in chloride content.

LISBON FORMATION

Water of good quality is available from the Lisbon Formation in most parts of Escambia County. Wells tap the formation in conjunction with aquifers in overlying formations as far west as Pollard. Based on eight field and partial chemical analyses of samples collected from seven wells tapping the formation in the Brewton and East Brewton areas, the water is low in chloride content and dissolved solids, and is moderately hard. The chloride content ranged from 0 to 11 ppm and the hardness from 92 to 120 ppm.

GOSPORT SAND

The Gosport Sand furnishes water to numerous wells in central and eastern Escambia County. It is not usually developed sepaarately as an aquifer but does yield water to wells that tap it in conjunction with the underlying Lisbon Formation and the overlying formations of younger age. Well W-32 north of Pollard is believed to tap only the Gosport. Based on a field chemical analysis of a sample collected from the well, the water has a chloride content of 2 ppm and a hardness of 108 ppm. The water is believed to be very similar in quality to that in the underlying Lisbon Formation.

MOODYS BRANCH FORMATION

Glauconitic sand in the Moodys Branch Formation yields water to wells in the eastern half of Escambia County. Wells seldom tap the Moodys Branch as the principal source of supply, however,

numerous wells do tap the formation in conjunction with aquifers in other formations. Water obtained from wells tapping the Moodys Branch in conjunction with other aquifers generally has a low chloride content but is moderately hard or hard. Water from these wells in the northeasternmost part of the county generally has a chloride content less than 10 ppm and a hardness of 120 to 150 ppm.

YAZOO CLAY

Sand in the upper part of the Yazoo Clay and limestone in the lower part supply adequate quantities of potable water for domestic use to wells in the northeasternmost part of Escambia County. The water, based on six field and partial chemical analyses of samples collected from five wells known to tap the formation, is generally of good quality but is hard. The chloride content ranged from 2 to 18 ppm and the hardness from 144 to 176 ppm. Numerous wells tap the Yazoo in conjunction with other aquifers, however, in most of the wells the quality of water obtained is similar to that obtained from wells tapping only the Yazoo.

OCALA LIMESTONE

The Ocala Limestone of the Eocene Series is the basal formation of a sequence of calcareous rocks that includes the overlying Red Bluff Clay, the Marianna Limestone, and the Glendon Limestone Member of the Byram Formation, all of Oligocene age. Wells in Escambia County do not tap the Ocala as their sole source of supply but do tap it in conjunction with the sequence of overlying calcareous rocks. Each of the limestones probably contributes a part of the water obtained from wells tapping them. The Red Bluff Clay, because of its relatively impermeable nature, probably does not yield water to wells.

Water obtained from the Ocala, Marianna, and Glendon, based on 42 field and 8 partial chemical analyses collected from 43 wells in central and eastern Escambia County, is of good quality but is moderately hard to hard, and locally may contain large amounts of iron. Chloride contents ranged from 0 to 11 ppm and averaged about 4.5 ppm and hardnesses ranged from 78 to 171 ppm and averaged about 127 ppm. Wells tapping the Ocala in conjunction with aquifers other than the Marianna and Glendon obtain water that is similar in quality to that obtained from the limestone sequence.

MARIANNA LIMESTONE

The Marianna Limestone supplies water to numerous wells in central and eastern Escambia County. Wells seldom tap the Marianna as their sole source of supply but do tap it in conjunction with other aquifers, generally the underlying Ocala Limestone of the Eocene Series and the overlying Glendon Limestone Member of the Byram Formation.

A field analysis of water collected from well A-20 near Teddy, believed to tap only the Marianna, indicated a chloride content of 2 ppm and a hardness of 89 ppm. The quality of water obtained from wells tapping the Marianna in conjunction with the Ocala and Glendon is discussed in the preceding section with that obtained from the Ocala Limestone.

BYRAM FORMATION

The Glendon Limestone Member and the Bucatunna Clay Member of the Byram Formation supply water to wells in central and eastern Escambia County. Wells generally tap them in conjunction with other aquifers but a few do tap them for their entire supply.

The Glendon is most often tapped in conjunction with the underlying Marianna and Ocala Limestones. Field analyses of water collected from well D-16 west of Appleton and well V-1 near East Brewton tapping only the Glendon, indicate chloride contents of 4 ppm and hardnesses of 149 and 128 ppm, respectively. Water from 4 wells believed to tap only the Glendon at Wallace had chloride contents of 1 or 2 ppm and hardnesses ranging from 80 to 116 ppm. The quality of water obtained from wells tapping the Glendon in conjunction with the underlying Marianna and Ocala Limestones also is low in chloride content but generally is harder. Its quality is discussed with that obtained from the Ocala Limestone.

Few wells tap the Bucatunna Clay Member of the Byram Formation for their source of supply. Wells O-126 and O-127 at Brewton, developed in the Bucatunna, obtain water that has a hardness of 124 and 126 ppm, respectively.

CHICKASAWHAY LIMESTONE

The Chickasawhay Limestone, where present, supplies water to wells in eastern and central Escambia County. Water from nine wells tapping the formation in this area, based on field chemical analyses, is low in chloride content but is moderately hard to hard. The chloride contents ranged from 0 to 11 ppm and the hardness from 100 to 176 ppm. Water obtained from well O-17 north of Brewton is moderately hard but is of good quality otherwise. Water collected from this well, based on a partial chemical analysis, had a hardness of 114 ppm and contained only small amounts of chloride, iron, fluoride, and nitrate. Other mineral constituents determined were not present in objectionable quantities.

MIOCENE SERIES

Beds of sand and gravel in the undifferentiated Miocene Series, in all but the northeastern part of the county where it is absent, supply small to large quantities of water of good quality to many wells for all purposes. Water obtained from the Miocene, based on 356 field chemical analyses, is low in chloride content and soft to hard. The chloride contents ranged from 0 to 145 ppm but were generally less than 10 ppm. The hardness ranged from 2 to 125 ppm and was generally less than 25 ppm except in the Bradley, Brewton, Pollard, Foshee, and Wallace areas.

The distribution of hardness of water in the Miocene deposits is shown in figure 18. The anomalous hardnesses at Bradley, Brewton, Pollard, Foshee, and Wallace correspond with areas of large withdrawal by flowing wells or pumpage. Hard water from calcareous beds in the underlying Oligocene Series is probably replacing, in part, the large quantities of water withdrawn from the Miocene. This also is indicated by the negligible decline in water levels and flows from wells tapping the Miocene at Pollard. The water levels and flows are essentially the same as those recorded in 1905 (Smith, 1907, p. 271-272). Recharge from the Oligocene Series, tapped by a few wells in the area, has probably prevented the significant declines in water levels and flows that are so noticeable in other areas of artesian flow in Alabama.

Partial chemical analyses of samples collected from 20 wells in Escambia County indicate that water from Miocene aquifers is low in total solids and that of the chemical constituents determined, none were present in objectionable quantities. Some owners of wells tapping the Miocene have reported objectionable staining indicating excessive iron content.

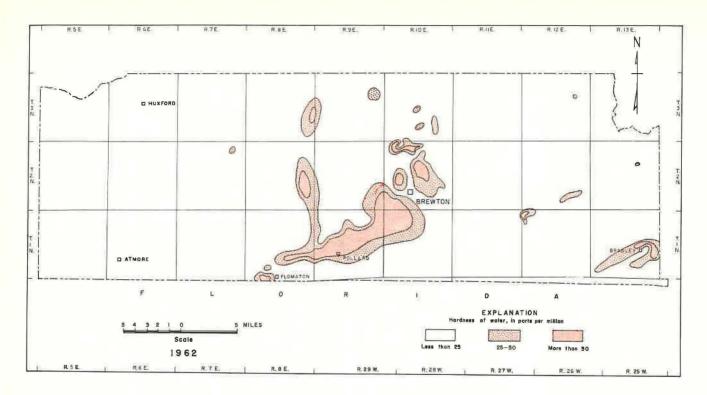


Figure 18.-Map showing distribution of hardness of water in wells tapping the Miocene Series, Escambia County.

CITRONELLE FORMATION

The Citronelle Formation supplies water of good quality to many wells in southeastern, central, and western Escambia County. Field chemical analyses of samples collected from 379 wells tapping the formation indicate that the water is low in chloride content and soft to moderately hard. The chloride content ranged from 0 to 83 ppm and was generally less than 15 ppm, and the hardness ranged from 3 to 84 ppm and was generally less than 20 ppm. Partial chemical analyses for nine samples confirms the low chloride content and hardness and indicates that the water contains only a small amount of dissolved solids but locally is high in iron content. Iron contents were low in all samples except those from wells Z-71 and Z-72 at Atmore; they contained 0.3 ppm which is objectionable for some purposes unless treated.

TERRACE AND ALLUVIAL DEPOSITS

Water of good quality is obtained from wells tapping terrace and alluvial deposits in Escambia County. Field chemical analyses for 80 wells, 77 tapping terrace deposits and 3 tapping alluvial deposits, indicate that the water is low in chloride content and soft to moderately hard. The chloride content ranged from 0 to 67 ppm and was generally less than 15 ppm and the hardness ranged from 5 to 71 ppm and was generally less than 20 ppm.

Based on a partial chemical analysis of water from well V-2 tapping terrace deposits east of Brewton, the chloride content was 3.8 ppm and the hardness was 4 ppm. The analysis indicated the water contained only a small amount of dissolved solids. Based on reports from well owners, iron concentrations locally are sufficient to be objectionable because of staining.

CONCLUSIONS

Additional ground water of good quality can be obtained in Escambia County. The Hatchetigbee Formation, undeveloped at present, may be a potential source of moderate to large quantities of good quality ground water in eastern and central parts of the county.

Moderate to large quantities of water can be obtained from the Lisbon Formation in most parts of the county. Wells tapping the Lisbon at Brewton yield as much as 787 gpm and similar yields probably can be obtained from the formation in east-central parts of the county where the basal sand is as much as 60 feet thick.

Small to moderate quantities of water can be obtained from the Gosport Sand where it is of sufficient thickness and from the Moodys Branch Formation and the Yazoo Clay in eastern parts of the county where they contain beds of sand or limestone.

The Ocala and Marianna Limestones and the Glendon Limestone Member of the Byram Formation will probably yield small to moderate quantities of water to wells tapping them in eastern and central parts of the county. Multiple aquifer wells tapping the Ocala, Marianna, and Glendon in the same area generally yield moderate to large quantities of water. Wells tapping the combined aquifers in lowland areas flow as much as 85 gpm.

The Bucatunna Clay Member of the Byram Formation yields small quantities of water to wells in the Brewton area where it contains beds of sand. The member is relatively impermeable and is not a source of supply in most other areas.

The Chickasawhay Limestone, where present, will yield small to moderate quantities of water to wells in some areas. A few wells in the Brewton and Wallace areas tap sands and solution cavities in the Chickasawhay for their source of supply.

The undifferentiated Miocene Series, where present in eastern Escambia County, supplies small to moderate quantities of water to many wells. Permeable beds of sand in the Miocene yield moderate to large quantities of water to wells in south-central and southwestern parts of the county. Wells tapping the Miocene yield as much as 760 gpm and it is probable that yields of 300 gpm or more can be obtained throughout the above area.

The Citronelle Formation is the principal aquifer in western Escambia County. Wells tapping sand and gravel in the formation at Atmore yield as much as 333 gpm. Similar yields can probably be obtained from the formation in the southwestern part of the county where the thickness of the Citronelle is 100 feet or more.

Small to moderate quantities of water are available in sands and gravels in Pleistocene terrace deposits and Recent alluvium in and adjacent to the major streams and their tributaries in the county.

Water from all aquifers in Escambia County, except those in the Miocene Series, Citronelle Formation, and the terrace and alluvial deposits generally is moderately hard to hard but is otherwise of satisfactory quality for most uses. Water from sand aquifers in the Miocene Series, the Citronelle Formation, and the terrace and alluvial deposits is generally of good quality being soft and low in mineral content. Locally, water from the aquifers contains enough iron to be objectionable because of staining. Moderately hard water is obtained from the Miocene in the Bradley, Brewton, Foshee, Pollard, and Wallace areas. Hard water from calcareous beds in the underlying Oligocene Series is probably replacing, in part, large quantities of water withdrawn from the Miocene in those areas.

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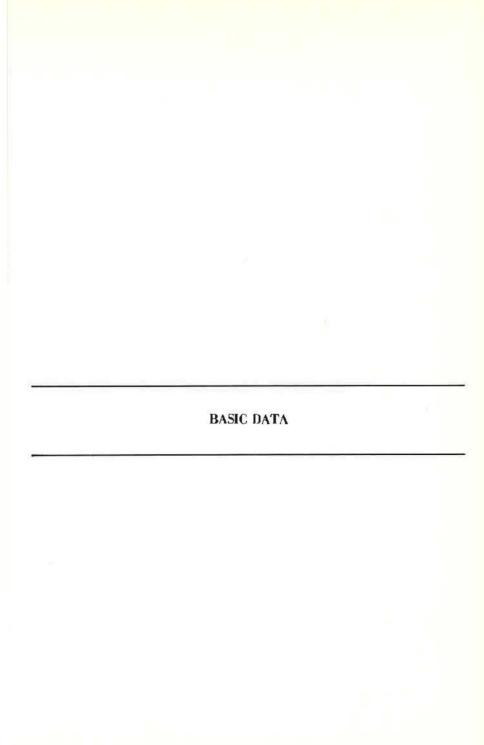
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Well: Numbers correspond to those shown in plate 1 and tables 2, 5, 6, and 7; asterisk indicates chemical analysis given in table 5.

Type of well: B, bored; D, drilled; Dr, driven; Du, dug; J, jetted. Depth of well and water level: Depths and water levels shown in feet are reported;

those in feet and tenths are measured,

Method of lift: C, centrifugal; Cy, cylinder; F, flow; J, jet; M, manual; P, plicher or piston; T, turbine.

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

Altitude: Altitudes determined by anerold barometer. Minuser antiques actermined by across successers.

Water-bearing milt: Ti, Linbon Formation; Teo, Gosport Sand; Tmb, Moodys Branch Formation; Ty, Yasoo Clay; To, Ocala Limestone; Tm, Mariana Limestone; Te, Glendon Limestone Member of Byram Formation; Tb, Barataman Clay Member of Byram Formation; Tc, Chickasawhay Limestone; Tmu, Mioceae Series undifferentiated; Tci, Citronelle Formation; Qt, Terrace deposits; Qul,

| | | | | | well | | | | er level | | | Field | detern | inations | |
|-------------|-------------------|--------------|------|-------------------------|----------------------------|------------------------|------------------------------------|--|--------------------------|----------------|--------------|----------------------|------------------------|---|--|
| Well | | Driller | Туре | Depth of well (feet) | Diameter of we (inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of meas- urement | Method of 11ft | Use of water | Temperature (° F) | Chloride (CI) (ppm) | Hardness as CaCO ₃ (ppm) | Remarks |
| A- 1 | Hugh Raburn | Jim Logan | D | 125. B | 2 | Tgo | 161 | + 4.2 | 6-15-57 | F | N | 164 | 35 | ei. | Casing: 2-in, to 65 it.; none below. Electric log in files of U.S. Geol. Survey. |
| - 2 | P. C. Thames | W. A. Blair. | D | 139,0 | 3 | ту | 160 | 1.8 | 3- 3-55 | P | D | 01.0 | 2 | 148 | Casing: 3-in, to 64 ft.; none below. Formerly Gowed. |
| - 3 | Jessie Evans | | | 115, 3 | 2 | Ty | 159 | .7 | 3- 3-55 | p | D | 65 | 2 | 150 | Formerly flowed. |
| 4- 4 | George Slamps | | D | 230, 0 | 4 | Ty Tmb Tgo Ti | 147 | + 4.8 | 4-17-57 | P | 8 | 68 | 7 | 134 | Casing: 4-in, to 70 ft.; none below. Measured flow 20 gpm on 4-8-57. Electric log in files of U.S. Geol. Survey. |
| - 5 | Buster Culliver | do | D | 142 | 4 | Ту (?) | 207 | 62 | 1948 | J | D,S | 3.9 | 7 | 67 | Casing and screen: 4-in. to 142 ft. |
| - 6 | Melvin Richardson | | Du | 22.7 | 42 | Qt | 159 | 14.9 | 3- 4-55 | М | N | 7. | | | |
| - 7 | J. M. Ralls | W. A. Blair | D | 181,0 | 4 | Ty Tmb | 137 | 55.55 | | F | N | GR | 14 | 143 | Casing: 4-in, to 54 ft.; none below. Electric log in files of U.S. Geol. Survey. |
| - 8 | do | | D | 199.6 | 4 | Ty | 138 | * 6.0 | 3- 3-55 | F | D | 68 | 2 | 136 | Casing: 4-in. to 46 ft.; none below. Electric log in files of U.S. Geol. Survey. Drilled as oil test well. |
| N- 9 | Melvin Richardson | W. A. Bleir | D | | 4 | Ту | 145 | | | P | D | 66 | 11 | 144 | Casing: 4-in. to 74 ft. |
| -10 | H. Brewer | | Du | 21.6 | 36 | Qt | 160 | 15,0 | 3- 4-55 | м | D | | 2 | 9 | |
| 4-11 | V. D. McCreary | W. A. Blair, | D | 165 | 4 | Ту | 158 | 14 | 6- 1-56 | J | D | | 18 | 176 | Casing: 4-in. to 60 ft.; none below. |

| ű. | ı | r : | 1 | 1 1 | | t. | Ĺ | 1 | i. | ř. | 1 | 1 | 1 | 1 | r' |
|------|-----------------|---------------|----|--------|----|-----------------------|-----|-------|---------|-----|------|------|-----|-----|--|
| A-12 | H. W. Hoomes | Fred McCreary | D | 175 | 3 | Ту | 158 | 25 | 1955 | J | D | 2.4 | 4 | 150 | Casing: 3-in. to 150 ft.; none below. Jet set at 40 ft. Formerly flowed. |
| A-13 | V. D. McCreary. | | Д | 180.0 | 3 | Ту | 156 | 15.7 | 5-15-57 | P | D | ** | WW. | *** | Observation well. Casing: 3-in. to 135 ft.; none below. Electric log in files of U.S. Geol. Survey, Formerly flowed. |
| A-14 | do | | Du | 19, 6 | 48 | Qt | 145 | 13, 8 | 3- 4-55 | M | D | 2.0 | 7 | 18 | |
| À-15 | do | Fred McCreary | D | 154.0 | 4 | Ty Tmb | 120 | +16.0 | ***** | F | 8 | 67 | 1 | 146 | Casing: 4-in, to 86 ft.; none below. Measured flow 25 gpm on 3-1-57. Electric log in files of U.S. Geol. Survey. |
| A-16 | do.,,,,,,, | do | D | 170.4 | 4 | Tm To Ty Tmb | 123 | + 7.4 | 4-20-65 | F | S | 67 | 1 | 137 | Casing: 4-in. to 22 ft., none below. Measured flow 2.0 gpm on 4-20-55. Electric log in files of U.S. Geol. Survey. |
| A-17 | , do | do | D | 173. 5 | 4 | Tm To Ty Tmb | *** | **** | ****** | F | 8 | 67 | 2 | 139 | Measured flow 10 gpm on 3-9-55. |
| A-18 | do | da | D | 174.0 | 3 | Tm To Ty Tmb | *** | +22.5 | 3- 9-55 | F | g | 67 | 2 | 138 | Measured flow 8.0 gpm on 3-8-55. |
| A-19 | Fred Clements | da | D | 250 | 4 | Tm To (?) | 189 | 60 | 1940 | P | D | 978 | 2 | 157 | Casing: 4-in. to 80 ft.; none below. |
| A-20 | Martha Hart | 60 | D | 125 | 3 | Tm (?) | 186 | **** | | Су | N | 66 | 2 | 89 | • |
| A-21 | do | do | D | 230 | 4 | Tm To (?) | 184 | 50 | | P | D, 8 | 09 | 1 | 151 | |
| A-22 | do | R. S. Hart | Dr | 19.7 | 14 | Qt | 184 | 17.3 | 9- B-55 | P | N | | | | |
| A-23 | V. D. McCreary | Jim Logan | D | 300 | 4 | Tm To Ty (?) | 183 | 30 | 1954 | P | D, 8 | ** | 2 | 151 | |
| A-24 | 8. J. Blow | | Dr | 19.1 | 14 | Qt | 184 | 9,7 | 2- 8-55 | 100 | N | 15.4 | + • | | Casing and acreen: 14-in. to 19.1 ft. |
| A-25 | T. R. Miller Co | ********** | Dr | 17.1 | 14 | Qt | 172 | 15.8 | 3- 8-55 | p | D | 63 | 2 | 7 | Casing and screen: 14-in, to 17.1 ft. |
| A-26 | do | ********* | | 17.0 | 14 | Qt | 168 | 14.7 | 3- 8-55 | 24 | N | | ** | | |
| B- 1 | George Bowman | J. W. Bowman. | D | 85 | 2 | Tb (?) | 182 | 33 | 1955 | 1 | D, B | 70 | 7 | 21 | |
| B- 2 | Iris Hendrix | Fred McCreary | D | 165 | 3 | Tg Tm To | 179 | 22 | 1943 | 3 | D | ** | 11 | 145 | |
| B- 3 | Clay Gibson | L. K. Stone | D | 78 | 2 | Tmu | 162 | 53 | 1955 | Су | D | 69 | 11 | 25 | Casing: 2-in. to 73 ft.; 2-in. screen from 73 to 78 ft. |

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Table 4.-Records of wells in Escambia County, Ala.-Continued

| | | | | | - | | | Wa | ter level | | | Field | detern | ninations | |
|------|------------------|----------------|------|-------------------------|------------------------------|-----------------------|------------------------------------|--|--------------------------|----------------|--------------|----------------------|------------------------|---|--|
| Well | Owner | Driller | Type | Depth of well (feet) | Diameter of well (inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of meas- urement | Method of 11ft | Use of water | Temperature (* F) | Chloride (Cl) (ppm) | Hardness as CaCO ₃ (ppm) | Remarks |
| B- 4 | Emma Harvey | Fred McCreary | D | 250 | 4 2 | Tg Tm To | 180 | 190 | | Су | D, B | 89 | 7 | 98 | |
| B- 5 | E. J. Anders | E. J. Andrews | D | 102 | 2 | Tmu | 161 | 21 | 1952 | J | D,S | 68 | 4 | 14 | Casing: 2-in. to 92 ft.; 2-in. screen from 92 to 102 ft. |
| B- 6 | Dennis Roberson, | Isaac Nearer | D | 94 | 2 | Timu | 152 | 80 | 1950 | Су | ۵ | 69 | 11 | 10 | Casing: 2-in. to 89 ft.; 2-in. screen from 89 to 94 ft. |
| B- 7 | Hubert Hartley | Hubert Hartley | | 32, 5 | 14 | Tmu | 137 | 27.4 | 8- 9-56 | P | מ | | | | |
| B- 8 | Bessie Lambert | L. K. Stone | D | 66 | 2 | Tmu | 142 | 33 | 1954 | Су | Œ | 88 | Xy. | | |
| B- 9 | Lillie Stone | G. C. Cook | 14 | 215 | 11/2 | Tmu | 129 | 17,6 | 6- 8-95 | P | מ | 85 | 7 | 2 | |
| B-10 | A. J. Hoomes | ***** | D | 33 | 2 | Tmu | 271 | | | Су | מ | ** | 14 | 24 | |
| B-11 | W. B. Hoomes | W. A. Blair | D | 160 | 4 | Tg Tm To | 239 | 90 | | P | מ | 7.7 | 2 | 115 | |
| B-12 | Homer Lambert | | •• | 150 | 4 | Tg Tm To | 229 | 50 | | Су | и | 69 | 100 | 118 | |
| B-13 | L. K. Stone | Coley Cook | D | 73 | 2 | Tmu | 166 | 59 | 1953 | J | D,S | 89 | 7 | 6 | Casing: 2-in. to 88 ft.; 2-in. screen from 88 to 73 ft. |
| B-14 | Shirley Evans | Isaac Nearer | D | 74 | 2 | Tmu | 171 | 62 | 1951 | Су | D | 88 | 23 | | Casing: 2-in, to 69 ft.; 2-in, screen from 69 to 74 ft. |
| B-15 | M. J. Cook | do | D | 87 | 2 | Tmu | 167 | 75 | 1950 | Су | D | F-6 | +2 | *** | |
| B-16 | W. W. Blackman | O. W. Findley | D | 73 | 2 | Tmu | 158 | 52 | 1954 | J | D | *** | 7 | 12 | Casing and screen: 2-in, to 73 ft. |
| B-17 | M. J. Cook | Isaac Nearer | D | 94 | 2 | Tmu | 162 | 80 | 1951 | Cy | В | 68 | 7 | 5 | |
| B-18 | Ely Edmond | do | D | 94 | 2 | Tmu | 189 | 81 | 1954 | Су | D, S | 68 | 7 | 8 | Casing: 2-in, to 89 ft.; 2-in, screen from 89 to 94 ft, |
| B-19 | A. J. Stone | ., do | D | 85 | 2 | Tmu | 24 | 75 | 1951 | Су | D,S | ** | 7 | 4 | Casing: 2-in. to 79 ft.; 2-in. screen from 79 to 84 ft. |

| B-20 | C. L. Dubose | do | D | 54 | 2 | Tmu | 282 | | | 1 | D,8 | | 7 | 9 | 1 |
|-------|------------------|---|----|-------|-----|----------------|-----|-------|---------|----|-------|-----|------|-------|---|
| *B-21 | Sam White | do | D | 106 | 2 | Tmu | 259 | 58 | 1953 | 2 | D | | | | Casing: 2-in. to 101 ft.; 2-in. screen from 101 to 106 ft. |
| B-22 | I. G. Cook | Marcus Blair | D | 235 | 4 2 | Tg Tm To | 217 | 55 | 1950 | 3 | В | 72 | 11 | 146 | Casing: 4-in, to 50 ft. Formerly used for industri- al purposes. |
| B-23 | do | * | p | 180 | 3 | Tg Tm | 215 | 75 | 1950 | Су | D | 1.0 | 7 | 112 | |
| B-24 | da | Marcus Blair | D | 200 | 3 | Tg Tm To | 217 | 66 | 1950 | J | D, S | ** | 7 | 107 | Casing: 3-in. to 154 ft.; none below. |
| B-25 | do | Jim Halford | В | 17.0 | 14 | Tmu | 193 | 9.8 | 6- 6-56 | P | D | 68 | 11 | 8 | |
| B-26 | William L. Green | Isaac Nearer | D | 26 | 2 | Tmu | 215 | 19 | 1950 | 3 | D, S | | | | Casing: 2-in, to 22 ft.; 2-in, screen from 22 to 26 ft. |
| B-27 | I. G. Cook | | | 15, 2 | 14 | Tmu | 210 | 11, 8 | 6- 7-58 | P | D, fi | 67 | | | |
| B-28 | Walker Hoomes | Isanc Nearer | D | 50 | 2 | Tmu | 239 | 40 | 1942 | Cy | D, 8 | 133 | 7 | 9 | |
| B-29 | C. A. Lanler | C. A. Lanier. | В | 20 | 1 | Tmu | 210 | **** | | P | D, Ø | | | | |
| B-30 | do | do | В | 29.7 | 11 | Tmu | 195 | 14.9 | 6- 6-56 | | | | 10.0 | | Observation well. |
| B-31 | William Cook | Coley Cook | D | 78 | | Tmu | 138 | 41 | 1955 | 1 | D,S | | 7 | 11 | |
| B-32 | L. W. Hoomes | L. W. Hoomes | Dr | 21, 0 | 14 | Tmu | 171 | 12. 2 | 3-10-55 | P | D | 88 | 2 | 6 | Casing: 1½-in. to 19 ft.; 1½-in. screen from 19 to 21 ft. |
| B-33 | W. B. Stone, | W. B. Stone | Dr | 22.0 | 14 | Tmu | 171 | 16.4 | 3-10-55 | P | S | 66 | 16 | 14 | Casing: 1½-in. to 19 ft.; 1½-in. screen from 19 to 22 ft. |
| B-34 | Horace Hobbs | | В | 35 | 2 | Tmu | 158 | | | | D, B | | 8 | 7 | |
| D- 1 | J. W. Skinner | E. Kearley | D | 150 | 4 | Tg Tm | 231 | 100 | 1945 | Cy | מ | 68 | 3 | 158 | |
| D- 2 | 8, L, Geck | Marcus Blair | D | 200 | 4 | Tg Tm To | 191 | 42 | 1954 | Су | D | 68 | 0 | 134 | Casing: 4-in. to 97 ft.; none below. |
| D- 3 | Herman Crosby | E. Kearley | D | 150 | 4 | Tg Tm | 223 | 100 | 1946 | Су | D | ** | 0 | 140 | Casing: 4-in. to 120 ft.; none below. |
| *D- 4 | J. L. McCord | Marcus Blair | D | 250 | 3 | Tg Tm To | 269 | 75 | 1953 | Су | D | 69 | | *** | Casing: 3-in. to 186 ft.; none below. |
| D- 5 | Chester Baggett | O. W. Findley | D | | 2 | Tmu | | **** | | J | D, B | | 11 | 9 | |
| D- 6 | Oscar Burkett | Oscar Burkett | | 84 | 2 | Tmu | - | 44 | 1947 | 3 | D, 8 | | 11 | 8 | |
| D- 7 | Dora Roberton | H. Bates and O'Farrell. | D | 87.8 | 2 | Tmu | 268 | 47.2 | 5-23-56 | | D | | 13 | *** | |
| D- II | I. L. Roberson. | | D | 71.7 | 2 | Tmu | 269 | 55.4 | 3-29-56 | J | D, B | | 100 | * * * | |

| | | | | | _ | | | Wa | ter level | | | Field | detern | ninations | |
|---------------|--------------------------|---------------------------|------|-------------------------|------------------------------|-----------------------------|------------------------------------|--|---------------------|----------------|--------------|----------------------|---------------------|-------------------------------|--|
| Well | Owner | Driller | Туре | Depth of well (feet) | Diameter of well (inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of measurement | Method of 11ft | Use of water | Temperature (° F) | Chloride (Cl) (ppm) | Hardness as CaCOs (ppm) | Remarks |
| D- 9 | W. T. Allen, | E. Kearley | D | 78 | 4 | Tmu | | ++++ | 113.613 | Cy | D | 14.4 | 19 | 24 | |
| D-10 | H. B. Boyd | O. W. Findley | D | 61.0 | 2 | Tmu | 278 | 39,0 | 11- 2-56 | J | D | 71 | 1. | 144 | Casing: 2-in. to 56 ft.; 2-in. screen from 56 to 61 ft. |
| D-11 | J. H. Powell | do | D | 44 | 2 | Tmu | | 29 | 1955 | P | D, 8 | 70 | | | Casing: 2-in. to 39 ft.; 2-in. screen from 39 to 44 ft. |
| D-12 | H. T. Bates. | | D | 80 | 2 | Tmn | 202 | | | J | D, S | 69 | 7 | 18 | Casing: 2-in. to 70 ft.; 2-in, screen from 70 to 75 ft. |
| 0-13 | R. C. Smith | J. Logan | D | 101.6 | 5 | Tg | 208 | 39.6 | 5-15-57 | | И | | | | |
| D-14 | do | O. W. Findley | D | 80 | 2 | Tmu | 208 | | | | D, S | | 9.4 | | |
| D-15 | C. D. Smith. | J. Logan | D | 302.0 | 3 | Tg Tm To Ty Tmb | 169 | . 25 | 5-15-67 | P | D, S | 68 | 7 | 186 | Casing: 3-in, to 120 ft.; none below. Electric log in illes of U.S. Geol. Survey. Water level report ed to have been 13 ft. above land surface when drilled in 1950. |
| 0-16 | do | do | D | 103.4 | 4 | Tg | 165 | + 1.0 | 5-15-57 | P | N | 87 | 4 | 149 | |
| -17 | B. A. McGraw | | | 60 | 2 | Tmu | | 557.5 | | C | D, S | 68 | 11 | 10 | |
| 0-18 | A. B. Hart | C. W. Findley | D | 56 | 2 | Tmu | | 25 | 1951 | | D | | 11 | 8 | |
| D-19 | W. H. Martin | | | **** | 2 | Tmu | | 1.1.1.1 | | | D | 66 | 7 | 12 | |
| D- 2 0 | J. B. Masingill | O. W. Findley | D | 50 | 2 | Timu | | 4244 | **** | J | D, S | ** | 7 | 18 | Casing: 2-in, to 44 ft.; 2-in. screen from 44 to 50 ft. |
| 0-21 | Phelan Findley | Phelan Findley | D | 58 | 2 | Tmu | | 41 | 1955 | ı | D | (3.6) | ** | * * * | Casing: 2-in, to 53 ft.; 2-in, screen from 53 to 58 ft. |
| 0-22 | O. W. Findley | O. W. Findley | D | 55 | 2 | Tmu | 245 | 35 | 1954 | 1 | D | 15.55 | ** | 150 | Caming: 2-in. to 50 ft.; 2-in. screen from 50 to 55 ft. |
|)-23 | E. C. Johnson | Etheridge Plumbing Co. | D | 180 | 2 | Tmu | 263 | **** | | c | D | 1 | 0 | 14 | Casing and screen: 2-in. to 180 it. See driller's log. |
| 0-24 | , , , , do , , , , , , , | | | 90 | | Tmu | 263 | | | Су | N | * * | 16.4 | | |
| 0-25 | E. E. McCall | O. W. Findley | D | 78 | 2 | Tmu | | | | Су | D | 87 | 36 | 7 | |

| D-26 | Elmer McGraw | Elmer McGraw | D | 20.9 | 14 | Tmu | 228 | 11.0 | 6- 5-56 | P | D, 8 | 66 | 14 | 6 | |
|---------------|---|-------------------------------|-----|--------|------|----------------|------|--------|----------|----|------|-------|---------|------|---|
| D-27 | Alton Barrow | C. O'Farrell | D | 84 | 2 | Tmu | | 64 | 1947 | 2 | D | ** | 11 | 8 | |
| D-28 | A. B. Richburg | O. W. Findley | D | 80 | 2 | Tmu | 266 | 60 | 1941 | C | D, B | 44 | 11 | 10 | |
| D-29 | J. J. Metzler, | | D | 200 | 2 | | 217 | 18 | 1951 | J | D, 8 | 15.57 | 11 | 11 | |
| D-30 | Clarence Janes, | Albert Beasley , | 3 | 75 | 2 | Tmu | | | | Су | D | 4.4 | 7 | 7 | |
| D-31 | Herman Crosby | O. W. Findley | J | 72 | 2 | Tmu | 250 | 80 | 1954 | Су | D | me. | 1(1)(5) | 3.00 | Casing: 2-in. to 67 ft.; 2-in, screen from 67 to 72 ft. |
| D-92 | N. J. Barrow | , do., | D | 62 | 2 | Tmu | | 54 | 1953 | 3 | D | | 11 | 31 | |
| D-33 | Buck Burnham | Etheridge Plumbing Co. | D | 80 | 2 | Tmu | 270 | **** | | J | D | 71 | 7 | 6 | Casing: 2-in. to 75 ft.; 2-in. screen from 75 to 80 ft. See driller's log. |
| D-34 | Willis Baker | H. Bates and C. O'Farrell. | D | 96 | 2 | Tmu | *** | 30 | | 3 | D | 19.00 | 2.1 | 12.7 | |
| D- 3 5 | Young Parker | | D | 98 | 2 | Tmu | | | | Су | D | 67 | 11 | 10 | |
| D-36 | Philip Andrews | Flo Drilling Co | D | 120 | 2 | Tmu | 277 | 1444 | | J | D, S | ** | *** | 100 | Casing: 2-in, to 115 ft.; 2-in, screen from 115 to 120 ft. See driller's log. |
| 0-97 | Ocie Pugh | O. W. Findley | D | 88 | 2 | Tmu | | 44 | | 3 | D, B | 33 | | | |
| D-38 | Ed Leigh McMillan | | D | 180 | 14 | Tg Tm To | 119 | + 28.4 | 1-13-55 | | D | 69 | 0 | 138 | Measured flow 2, 5 gpm on 1-11-55, |
| D-39 | C. H. Massingill | Etheridge Plumbing Co. | D | 90 | 117. | Tmu | 101 | | | J | D | | 2 | 30 | See driller's log. |
| D-40 | E. O. Wilson | O. W. Findley | Du, | 107 | 2 | Tmu | | 72 | 1953 | J | D | | 0 | 10 | Casing: 2-in, to 102 ft.; 2-in, screen from 102 t 107 ft. |
| D-41 | Lula Smith | C. O'Farrell | D | 39.4 | 0 | Tmu | 240 | 31,3 | 11- 1-56 | M | D | 68 | 11 | 18 | |
| D-42 | Badie Wilson | Flo Drilling Co | D | 48 | 2 | Tmu | 10.0 | | | J | D | 88 | | | Casing: 2-in, to 43 ft.; 2-in, screen from 43 to 48 ft. |
| D-43 | F. R. Brown | White Brothers | D | 59 | 2 | Tmu | | 28 | | J | D, Ø | | 1954 | | Supplies several families, |
| D-44 | Joe Salter | | ** | 80 | 1 | Tmu | | 50 | | J | D, S | 2.2 | | | |
| D-45 | County Board of Ed- ucation, N. Brewton Junior High School. | Gray Artesian Well Co. | D | 180 | 4 | Tmu | 293 | 60 | 1953 | Су | P | 89 | ** | | Casing: 4-in. to 170 ft.; 4-in. screen from 170 t 180 ft. Reported yield 17 gpm in 1954. |
| D-48 | W. D. Odom | | • | 85 | 2 | Tmu | | 25 | | Су | D, Ø | 68 | 7 | 8 | |
| 0-47 | Lawrence Smith | E. Kearley | D | 176. 8 | 4 | Te | 245 | 87.9 | 12-17-58 | J | D | 15.5 | 11 | 164 | |
| D-48 | Travis Lambeth | Marcus Blair | D | 400 | 4 | Tg Tm To | 241 | 79.5 | 12-13-56 | т | D, Ø | 1.4 | 3 | 162 | Casing: 4-in. to 294 ft.; none below. |
| D-49 | Collins Steele | O W Findles | D | 68 | 2 | Tmu | | 58 | | J | D | 96 | 11 | 12 | |

| | | | | | = | | | | er level | | | Field | deterr | ninations | |
|------|-------------------|--|------|-------------------------|------------------------------|----------------------------|------------------------------------|--|--------------------------|----------------|--------------|----------------------|------------------------|-------------------------------|--|
| Well | Owner | Driller | Type | Depth of well (feet) | Diameter of well (inches) | Water-bearing unit | Alttinde of land surface (feet) | Above (+) or below land surface (feet) | Date of meas- urement | Method of 11ft | Use of water | Temperature (* F) | Chloride (CI) (ppm) | Hardness as CaCOs (spm) | Remarks |
| D-50 | Lawrence James | Lawrence James, | Dr | 22 | 2 | Tmu | * 9 9 1 | 14 | 1984 | P | D | | *** | *** | Casing and screen: 2-in. to 32 ft. |
| D-51 | L. E. Langham | L. E. Langham | в | 29, 6 | 2 | Tmu | 136 | 20.8 | 4- 3-56 | P | D, S | 94 | 22 | 2.2 | |
| D-52 | W. C. Bolling | | Dr | 21.0 | 8 | Tmu | 144 | 4. 8 | 4- 3-56 | P | D, S | ** | 7 | 8 | |
| D-83 | John Hingleton | Albert Bessley, | J | 32 | 2 | Tmu | | | | J | D | 68 | 100 | 2 | |
| D-54 | Roy O'Farrell | C. O'Farrell | В | 30,1 | 7 | Tmu | 135 | 19,1 | 5-15-57 | C | D | 68 | 4 | 7 | |
| D-55 | Joe Stokes | Albert Beasley, | J | 42 | 2 | Tmu | | 30 | 1952 | J | D | 88 | 7 | 10 | Casing and screen: 2-in. to 42 ft. |
| D-58 | J. L. Blackburn. | Will O'Farrell | В | 43.7 | 7 | Tmu | 208 | 41.0 | 7-22-55 | M | D | 68 | 0 | 9 | |
| D-57 | Frank O'Farrell | C. O'Farrell | В | 33. 4 | 7 | Tmu | 195 | 23, 5 | 7-22-55 | J | D | 101 | 26 | 30 | |
| D-56 | C. C. O'Farrell | Will O'Farrell | В | 48.4 | î | Tmu | 215 | 41, 8 | 7-22-55 | M | D | 69 | 0 | 6 | |
| D-59 | Walter Wilson | Etheridge Plumbing Co. | D | 400 | .4 | Tg Tm To | 228 | 80 | 1955 | Cy | D | 6 | 1 | 140 | |
| D-60 | E. M. Crutchfield | . Carlos Car | В | 31,0 | 8 | Tmu | 206 | 27.7 | 7-22-55 | м | N | -24 | | 202 | |
| D-81 | D. B. Steele , | D. B. Steele | В | 28.1 | 6 | Tmu | 198 | 23.6 | 7-22-55 | м | D | 67 | *.* | 8 | |
| D-62 | Fred Tucker | David Steele, | В | 20.0 | 7 1‡ | Tatu | 190 | 14. 0 | 7-22-55 | P | D | 68 | 2 | 4 | |
| D-63 | Cecil Huff | O. W. Findley | D | 40 | ++ | Tmu | *** | **** | | J | D, S | 1904 | | 222 | |
| D-64 | Melvin Wilson | Robbins-McGowin | D | 80 | 2 | Tmu | 10101 | **** | | .1 | D | 100 | 7 | 10 | |
| D-85 | Austin Morris | Albert Beasley | J | 46 | 2 | Tmu | ¥44.4 | | | J | D | 10.0 | | *** | |
| D-66 | W. D. Barrow | Etheridge Plumbing Co. | D | 428 | 4 | Te Tb Tg Tm To | 283 | 125.0 | 12-13-57 | т | D | 69 | 16 | 126 | Casing: 4-in. to 342 ft.; none below. See driller's log. |
| D-67 | J. P. Hall | C. O'Farrell | В | 45.4 | 8 | Tmu | 198 | 35, 2 | 3-30-56 | м | D | 68 | 7 | 0 | |

| -68 | Monk Smith | | | 60 | 2 | Tmu | | | | C | D | | 7 | 12 | |
|------|-----------------------|--------------------------------|----|-------|-----|------|------|-------|----------|----|------|------|------|---------|--|
| -69 | Walker Smith | | В | 28.3 | 7 | Tmu | 195 | 17.4 | 3-30-66 | M | D, S | 65 | | | |
| -70 | E. J. Jernigan | | В | 37.0 | 8 | Tmu | 221 | 32.2 | 11- 1-56 | м | D | | | 244 | |
|)-71 | and the second second | | В | 37. 4 | 8 | Tmu | 209 | 28,9 | 11- 1-95 | M | D, 8 | | | | |
| - 1 | (1) | E. Kearley | D | 127 | 4 | Te | 240 | 80 | 1948 | J | D, 8 | | 4 | 100 | |
| - 3 | A. J. Barnes | O. W. Findley | D | 51 | 2 | Tmu | | 84 | 1954 | 3 | D, S | 68 | 11 | 15 | Casing and screen: 2-in. to 61 ft. |
| :- 3 | J. J. Barnes | O. W. Findley and H. Bates, | D | 57 | * | Tmu | | 27 | 1954 | J | D, Ø | | | | Casing and screen: 2-in. to 57 ft. |
| - 4 | R. F. Lowrey | Etheridge Plumbing Co. | D | 67 | 2 | Tmu | 230 | 37 | 1954 | J | D,8 | 244 | 7 | .8 | Casing: 2-in, to 52 ft.; 2-in, screen from 52 to 57 ft. See driller's log. |
| - 5 | Prestly Dyes | Prestly Dyes | В | 45.4 | | Tmu | 241 | 41.2 | 7-21-55 | M | D | 89 | 0 | 8 | |
| - 6 | Lela Cooper | R. T. Cooper | Dr | 40 | 2 | Tmu | | 28 | 1954 | P | D | 59 | 1 | 37 | Casing: 2-in, to 36 ft.; 2-in. screen from 35 to 40 ft. |
| - 7 | do | Len Cooper | В | 16, 3 | 11 | Tmu | 214 | 11.6 | 7-21-55 | P | D | 70 | 3 | 10 | |
| - 8 | Rufus Smith | *********** | D | 88 | 2 | Tmu | | 50 | | J | D, S | | 1 | 15 | |
| - 9 | Lonso Smith | Louse Smith | Du | 27. 1 | 38 | Tmu | 244 | 13.9 | 7-15-55 | м | 8 | 70 | 17 | 22 | Test well drilled to 210 ft, |
| -10 | Loree Wright | George Godwin | В | 35.9 | 6 | Tmu | 214 | 27, 8 | 5-15-57 | М | N | 68 | 1 | | |
| -11 | Floyd Madden, | | В | 41.9 | 7 | Tznu | 234 | 38, 1 | 7-15-55 | М | D | | 1.5 | | |
| -12 | do | Etheridge Flumbing Co. | D | 120 | 2 | Tmu | 238 | | | Су | D | ., | 1 | 10 | Casing: 2-in. to 115 ft.; 2-in. screen from 115 120 ft. See driller's log. |
| -13 | | | В | 24, 7 | 7 | Tmu | 204 | 18.2 | 7-20-55 | М | N | + + | | | |
| -14 | B. B. Gunn | | В | 41.3 | 7 | Tmu | 234 | 36. 5 | 7-21-55 | M | D | 69 | 14 | 22 | |
| -15 | J. E. Blair | J. E. Blair | В | 35 | 7 | Tmu | | 20 | 1951 | Cy | D | 68 | 4 | 12 | |
| -16 | do | do | В | 20.7 | 14 | Tmu | 219 | 16.7 | 7-20-56 | P | D | 70 | 8 | 8 | |
| -17 | G. S. Chance | | В | 22, 2 | 7 | Tmu | 219 | 15.4 | 7-20-58 | M | D | 70 | 2 | 8 | |
| -18 | C. H. Pugh | | В | 25 | 2 | Tmu | | 14 | 1954 | J | D | | 1 | 11 | |
| -19 | do | | В | 28, 4 | 9 | Tmu | 221 | 19. 5 | 7-20-55 | M | D | ** | | | |
| -20 | A. W. Blair | C. O'Farrell | В | 51.0 | 8 | Tmu | 246 | 46.0 | 3-20-56 | M | D | 69 | ** | | |
| -21 | D. M. Blair | | D | | ee. | Tmu | 22.5 | **** | | J | D | ** | | | |
| -22 | Lawrence Langham | L. Langham | В | 47 | 2 | Tmu | | 27 | 1955 | J | D, 8 | 11.0 | 1:00 | • • • • | Casing and screen: 2-in. to 47 ft. |
| -23 | G. S. Morgan | C. O'Farrell | В | 27.7 | 8 | Tmu | | 22, 7 | 4- 8-56 | М | D | | | | |
| -24 | A. G. Prichett | | В | 16.0 | 14 | Tmu | | 5. 3 | 3-29-58 | P | D, f | 15 | | | |

| | | | | | = | | | _ | er level | | | Field | detern | ninations | |
|------|-----------------|---------------------------|------|----------------------|---------------------------|-----------------------|------------------------------------|--|--------------------------|----------------|--------------|---------------------|------------------------|-------------------------------|---|
| ₩ell | Owner | Driller | Type | Depth of well (feet) | Diameter of well (inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of meas- urement | Method of 11ft | Use of water | Temperature (*F) | Chloride (CI) (ppm) | Hardness as CaCOg (ppm) | Remarks |
| E-25 | L J. Wilson | C. O'Farrell | D | 60 | 2 | Tmu | | 40 | 1955 | J | D | on | 11 | 6 | Casing and screen: 2-in. to 60 ft. |
| E-28 | A. J. Shell | O. W. Findley | D | 70 | 2 | Tmu | 100 | 53 | 1952 | J | D, B | | | 4144 | Casing and screen: 2-in, to 70 ft. |
| E-27 | W. C. Gibson | E. James | В | 47.0 | 8 | Tmu | 230 | 40.0 | 3-30-56 | M | D | ** | 2.0 | * * * | |
| E-28 | L L. Talberd, | H. Bates | В | 52 | 2 | Tmu | | 44 | 1955 | J | D | | | eri. | |
| E-20 | Alme Pettis | | В | 45.0 | 8 | Tmu | 231 | 40.2 | 3-30-56 | M | D, S | ** | | * * * | |
| E-30 | W. H. Emmons | | В | 60 | 3 | Tmu | + = 4 | 55 | 1940 | J | D, 8 | | 11 | 8 | Casing and screen: 2-in. to 80 ft. |
| E-31 | Ely Cooper | Etheridge Plumbing Co. | D | 141 | 2 | Tmu | ••• | 111 | 1955 | 1 | D,S | 69 | 7 | 49 | Casing and sereen; 2-in, to 141 ft. |
| E-32 | Sam Ivey | A. Beasley | D | 56 | 2 | Tmu | | 35 | 1951 | 1 | D, S | 22 | | | Casing and screen: 2-in, to 56 ft. |
| E-33 | Alvin Pagh | ********** | В | 40 | 11/2 | Tmu | * * * | **** | | Су | D | 68 | 1 | | |
| E-34 | W. D. Franklin | W. D. Franklin | В | 21 | 14 | Tel | | 1111 | | P | м | | | | |
| E-35 | Lee Chavers | Lee Chavers | D | 30 | 2 | Tel | *** | 26 | 1952 | J | D | 70 | MAC. | | Casing: 2-in, to 26 ft.; 2-in, screen from 26 to 30 ft. |
| E-36 | Herbert Pettis | | n | 22, 5 | 8 | Tci | 282 | 19, 5 | | ** | N | ** | ** | *** | |
| E-37 | Charles Johnson | | В | 28.0 | .0 | Tel | 274 | 19. 5 | | M | D | 71 | 2 | 6 | |
| E-38 | Autry Hammac | Marcus Blair | D | 278 | 2 | Tg Tm To | 279 | 140 | 1949 | Су | D, S | •• | 2 | 171 | |
| E-39 | T. O. Wilson | C. O'Farrell | п | 52.8 | 8 | Tmu | | 50.0 | 4- 8-58 | м | 8 | ** | ×+. | *** | |
| E-40 | W. C. Gibson, | E. James | В | 60.0 | 6 | Tmu | 232 | 50.7 | 4- 8-55 | м | D, S | 80 | 14 | 14 | |
| E-41 | R. M. Darby | O. W. Pindley | D | 50 | 2 | Tmu | 215 | 22.7 | 4- 4-58 | J | D, B | | | | Casing and screen: 2-in. to 50 ft. |
| E-42 | N. G. Baggett | do., | D | 28 | 2 | Tmu | | | | 1 | D, S | | 7 | 6 | Casing and screen: 2-in, to 28 ft. |
| E-43 | G. W. Martin | H. Bates | D | 45 | 2 | Tmu | *** | 35 | 655 | J | D, B | | 11 | 10 | |
| E-44 | T. B. Cook | White Brothers | D | 40 | 2 | Tmu | | | | P | D | | 11 | 8 | |

| E-45 | J. L. Burch | Marcus Blair | D | 400 | 4 | Tg Tm To | 219 | 61.8 | 5-15-57 | T | D, B | ** | 1 | 162 | Observation well. Casing: 4-in, to 290 ft.; none below. See driller's log. |
|------|--------------------|-------------------------------|-----|-------|-----|----------------|---------|--------|---------|----|------|----|------|-------|---|
| E-40 | G. W. Lundy | White Brothers | D | 48, 8 | 8 | Tmu | 224 | 34.0 | 4- 3-58 | 1 | D, B | | ** | | |
| E-47 | J. H. Smith | Flo Drilling Co | D | 63 | 2 | Tmu | ••• | * (*)* | | J | D, B | | | | Casing: 2-in, to 58 ft.; 2-in, screen from 58 to 63 ft. |
| E-48 | James McGougin | | | 79 | | Tmu | 124 | 80 | | 1 | D, S | ** | 220 | | |
| E-49 | W. G. Baggett | W. G. Baggett | | 30 | 2 | Tmu | *. *. * | 53.55 | | P | D, Ø | ** | | • • • | S - 9. +X |
| E-50 | R. J. Martin | O. W. Findley | D | 68 | 2 | Tmu | 225 | | | ı | D, S | 70 | 11 | B | Casing and screen: 2-in, to 68 ft. |
| E-61 | D. W. Baggett | D. W. Baggett | Dr | 21 | 11 | Tmu | 100 | 18 | | P | D | | ** | | Casing and screen: 13-in, to 21 ft. |
| E-52 | E. R. Pettis | E. R. Pettis | В | 30 | 14 | Tel | | | | Су | N | 1. | 4:4: | | Caming: $1\frac{1}{4}$ -in. to 25 ft.; $1\frac{1}{4}$ -in. screen from 25 t 30 ft. |
| E-53 | do | do | В | 23.9 | 8 | Tel | 272 | 19.7 | 7-14-55 | M | N | 10 | | | |
| E-54 | C. E. Hammae | C. O'Farrall | В | 33.0 | 8 | Tei | 274 | 22, 5 | 5-15-57 | м | D | 68 | 26 | 68 | |
| B-55 | E. E. Hammae | do | В | 20. 8 | 7 | Tei | 270 | 11, 2 | 7-14-56 | м | D, 8 | | 4 | 43 | |
| E-56 | Roy Stoner | Marcus Blair | D | 500 | 4 2 | Tg Tm To | 259 | **** | | Су | D, f | | 4 | 126 | Casing: 4-in. to 238 ft.; 2-in. from 238 to 290 ft. none below. |
| E-57 | W. C. Madden | Flo Drilling Co | D | 45 | 2 | Tmu | | 18 | 4-11-57 | J | a | | ** | *** | Casing: 2-in. to 40 ft.; 2-in. screen from 40 to 45 ft. Measured yield 9.0 gpm on 4-11-57. See driller's log. |
| F- 1 | L. S. Nall, | Etheridge Plumbing Co. | D | 302 | 2 | | 332 | 187 | 1955 | Су | D, 8 | 68 | 7 | 39 | Casing: 2-in, to 298 ft.; 2-in, screen from 298 t 302 ft. |
| F- 2 | J. J. Odom | | В | 49. 6 | 8 | Tel | 346 | 47.2 | 3-22-56 | м | D | | A. | | |
| F- 3 | W. F. Watson | Etheridge Plumbing Co. | В | 270 | 2 | Tmu | 342 | 17 | 1955 | Су | D | 68 | ** | *** | Casing: 3-in. and 2-in. to 260 ft.; 2-in. screen from 260 to 270-ft. See driller's log. |
| F- 4 | Marvin Lisenby | | 18 | 67 | | Tei | | | | 3 | D,8 | | ., | 2.7.7 | S Maria Es |
| F- 5 | Curtis Lisenby | | : B | 57.1 | 0 | Tei | 341 | 53.5 | 3-22-56 | м | D | 68 | | *** | |
| F- 6 | Dewey Hawkins | | -D | 72 | 2 | Tei | 335 | 15 | ***** | 3 | D, 8 | 89 | 11 | 8 | |
| F- 7 | T. J. Hawkins | | В | 41.8 | | Tei | | 41.0 | 7-14-55 | | N | | | | |
| F- 8 | | Otha Johnson | D | 80 | 2 | Tei | 338 | 42 | | 3 | D, S | | *:*: | | Casing and screen: 2-in, to 80 ft. |
| F- 9 | do | B. B. Booker | D | 38 | 2 | Tel | | | | 3 | D | | | | Casing and screen: 2-in, to 38 ft. |
| F-10 | Anna Harrison | FFF-6000-111-11-11 | В | 55, 6 | 6 | Tel | 330 | 48.2 | 3-22-58 | M | D, B | 69 | | *** | |
| F-11 | do | | В | 48.0 | - 8 | Tel | | 42.1 | 3-22-56 | м | D | | | *** | |
| F-12 | A. D. Kelly Estate | Action Control of the Control | В | 52.3 | 9 | Tel | | | | | | | | | Dry on 7-14-35. |

| | | | | | - | | | | ter level | | | Field | detern | minations | |
|------|--|--|------|-------------------------|------------------------------|-----------------------|------------------------------------|--|---------------------------|----------------|--------------|----------------------|------------------------|-------------------------------|--|
| Well | Owner | Driller | Type | Depth of well (feet) | Diameter of well (inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of measu- urement | Method of 11ft | Use of water | Temperature (* F) | Chloride (Cl) (ppm) | Hardness as CaCO3 (ppm) | Remarks |
| F-13 | Escambia County Board of Education. | Marcus Blair | В | 376.0 | 4 3 | Tg Tm To | 176 | + 7.8 | 4-14-55 | J | P | 70 | 1 | 112 | Casing: 4- to 3-in. to 302 ft.; some below. Meas ured flow 11. 5 gpm on 4-14-55. Electric log in files of U.S. Geol. Survey. |
| F-14 | dn | | 47.5 | 3.55 | 2 | Tm To (?) | 176 | **** | 1111111 | F | N | 67 | ** | *** | Flows less than 1 gpm. |
| F-15 | do | | 6*x* | ••• | 2 | Tm To (?) | 178 | + 1.0 | 5-11-55 | C | P | 32.5 | 1 | 45 | Measured flow 1 gpm on 5-11-55. |
| F-16 | do | | | *** | *.* | Tm To (7) | 176 | + 3.4 | 3- 1-55 | F | N | 87 | 2 | 116 | Measured flow 2.3 gpm on 3-1-55. |
| F-17 | A. D. Grissott | *********** | D | | 21 | Tg (?) | 187 | | 123,123 | c | D | 69 | 2 | 112 | Estimated flow 6 gpm on 3-1-55. Leaks around casing. |
| F-18 | E. W. Tew | Wooten , | D | | 2 | Tg (?) | 165 | | | c | D, S | 69 | 2 | 116 | Measured flow 1.7 gpm on 3-1-55. Leaks around casing. |
| F-19 | Margaret K. Gilmore | do | а | *** | 21 | Tg (7) | 170 | + 14.0 | 3- 1-55 | F | D | 71 | 1 | 80 | |
| F-20 | do | (4240) (640) (471) 4112 (555) (700) (7 | D | 2.55 | 21 | Tg (?) | 168 | HARRY. | | F | 8 | 89 | 2 | 111 | Estimated flow 5 gpm on 3-1-55. |
| F-21 | , do | ACT COLLOWING WASHINGTON | D | 245 | | Tg | 163 | **** | | F | D | 2.5 | ::: | | Estimated flow 10 gpm on 3-1-55. Leaks around casing. Supplies several houses. |
| F-22 | W. E. Thompson | | D | 147 | 31 | Tmu | 166 | + 7 | 3- 1-55 | C | D | 69 | 2 | 110 | Measured flow 4.7 gpm on 3-1-55. Leaks around casing. |
| | | | 30 | 87.5 | | Tmu | 163 | + .0 | 3- 1-55 | F | И | 89 | 1 | 68 | Measured flow 3.3 gpm on 3-1-55. |
| | H. W. Pruett | 200200000 | D | 210 | 21 | Te | 167 | | | F | D, 8 | 89 | 2 | 120 | Leaks around casing. Supplies several houses. |
| | C. W. Beasley | | B | 36.5 | 8 | Tel | 307 | 7555,575 | 3-26-56 | J | D, B | 10.0 | ** | 1-1-1 | |
| | Lixzie Beasley | Service and the service and th | J | 90 | 21 | Tmu | | 80 | | Cy J | D, S | ** | ** | | |

| 1 | Arthur Beasley | do | p | 66 | 21 | Tei | l | 60 | 1952 | J | D. 8 | ١ | ١ | l | 1 |
|------|------------------|--------------------|-----|-------|----|-----|-----|-------|---------|----|------|-----|-------|-------|---|
| F-28 | 1 | l . | D | 85 | 2 | Tci | | 60 | 1952 | Сy | D, 8 | | | | Casing: 2-in, to 80 ft.: 2-in, screen from 80 to |
| F-29 | Albert Bell | Co. | " | 63 | • | 161 | | " | 1932 | , | 0,5 | | ••• | | 85 ft. See driller's log. |
| F-30 | Luther Rawls | | В | 33.9 | 8 | Tei | | 29.8 | 9- 9-55 | м | D | 68 | 6 | 16 | |
| G- 1 | W. E. Grissett | W. E. Grissett | В | 31.6 | 8 | Tci | 333 | 30.4 | 3-27-58 | м | D, 8 | | •• | | |
| G- 2 | E. C. Grissett | E. C. Grissett | D | 110 | 2 | Tci | 332 | 82 | 1943 | Су | D, S | | | | Casing: 2-in. to 105 ft.; 2-in. screen from 105 to |
| ١ | | | | | 8 | Tei | | 30, 2 | 3-27-56 | м | D.S | 69 | | l | |
| G- 3 | | 1 | :: | 41.8 | - | | | | | 1 | D, S | 66 | •• | | |
| G- 4 | | | В | 30.6 | 8 | Tmu | 291 | 18.6 | 3-27-56 | М | - | | •• | | |
| G- ! | | 1 | В | 29, 0 | 8 | Tmu | | 23.5 | 3-27-56 | М | N | | •• | | |
| G- 6 | Duke Brown | Duke Brown | В | 69 | 2 | Tel | 341 | 47 | 1947 | J | D,S | | 14 | 8 | |
| G- 1 | George Morton | |]] | 50 | 2 | Tci | | | | J | D | ••• | •• | • • • | |
| G- 8 | Ollie Gilmore | C. O'Farrell | В | 38.0 | 8 | Tci | 339 | 26.4 | 3-22-56 | M | D, 8 | 68 | • • • | • • • | |
| G- 9 | E. B. Smith | Godwin | D | 70 | 21 | Tci | | 57 | 1945 | Су | D, S | 66 | 3 | 8 | |
| G-10 | Charles Dawson | | J | 80 | 2 | Tci | | 70 | 1951 | J | D | | •• | • • • | Casing and screen: 2-in. to 80 ft. |
| G-11 | J. W. Hobbs | | В | 60 | 2 | Tci | | | | Су | D | | •• | | Casing and screen: 2-in. to 60 ft. |
| G-12 | G. W. Godwin | G. W. Godwin | В | 57.2 | 8 | Tci | | 54.0 | 2- 9-56 | м | D, 8 | | | | |
| H- 1 | A. M. Coley | B. B. Booker | D | 40 | 2 | Tci | | 26 | 1952 | J | D | | | | |
| H- 2 | J. L. Tuberville | do | σ | 59 | 2 | Tci | 347 | 47 | 1948 | J | D | 71 | 7 | 10 | Casing and screen: 2-in. to 59 ft. |
| H- 3 | D. D. Lambert | D. D. Lambert | D | 58 | 2 | Tci | | | | J | D | 72 | 11 | 6 | Casing and screen: 2-in. to 58 ft. |
| н- 4 | E. H. Cruit | B. B. Booker | ם | 55 | 2 | Tci | | | | J | D, S | | 3 | 5 | Casing and screen: 2-in. to 55 ft. Supplies 100 cows. |
| н- : | Clyde Purnell | do | _ l | 70 | 2 | Tci | 324 | 55 | 1953 | J | D | ١ | 11 | 6 | Casing and screen: 2-in. to 70 ft. |
| н- 6 | 1 | i | _ | 60 | 2 | Tel | | 46 | 1951 | J | D | ١ | 18 | 14 | - |
| н- 1 | 1 | | D | 40 | 2 | Tci | | 27 | l | ı | ם | ١ | ١ | | |
| H- 8 | 1 | Etheridge Plumbing | D | 60 | 2 | Tci | 327 | 40 | 1952 | J | D.S | 70 | 7 | 6 | |
| н- (| Cecu Rodinson | Co. | ا ا | 00 | • | 1.0 | " | | | ١ | -,- | " | ' | • | |
| н- 9 | Lennard Chunn | B. B. Booker | В | 93 | 2 | Tci | 345 | 65 | 1942 | Су | D,8 | | ٠. | | Casing and screen: 2-in. to 93 ft. |
| H-10 | M. W. Morris | do | В | 115 | 2 | Tci | | | | Су | D,S | | 7 | 8 | |
| H-11 | Irby Williams | | В | 41.5 | 8 | Tci | 331 | 39.2 | 5-21-56 | м | D | | | | Inadequate supply for domestic use. |
| H-12 | J. C. Croley | | В | 39.9 | 8 | Tel | | 34.0 | 5-21-56 | м | D | | ٠. | | Do. |
| H-13 | J. B. Day | Etheridge Plumbing | D | 60 | 2 | Tel | 332 | 44 | 1954 | J | D,S | ١ | 7 | 7 | Casing and screen: 2-in. to 60 ft. |
| | | Co. | | | | | | | | | | | | | |
| 1 | 1 | İ | | | | l | | l | 1 | | i | l | 1 | | |

| | I | | | | _ | | Γ | Wa | ter level | Γ | | Field | i deter | minations | |
|------|--|---------------------------|------|-------------------------|---------------------------|-----------------------|------------------------------------|--|--------------------------|----------------|--------------|----------------------|------------------------|---|-------------------------------------|
| Well | Owner | Driller | Туре | Depth of well (feet) | Diameter of well (Inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of meas- urement | Method of 11ft | Use of water | Temperature (* F) | Chloride (Cl) (ppm) | Hardness as CaCO ₃ (ppm) | Remarks |
| H-14 | Arthur Dreaden | Arthur Dreaden | D | 49 | 2 | Tcl | | 39 | 1948 | Су | D | 70 | 21 | 32 | Casing and screen: 2-in, to 49 ft. |
| H-15 | J. O. Crowley | B. B. Booker | D | 60 | 2 | Tci | | 45 | 1954 | ı | D | | | | |
| H-16 | W. F. Vickrey | do | D | 55 | 2 | Tci | | 41 | 1945 | J | D | | | | |
| H-17 | Lloyd Dreaden | | В | 40.3 | 8 | Tci | | 34.4 | 5-16-57 | М | N | | | | |
| H-18 | G. W. Dreaden | G. W. Dreaden | D | 57 | 2 | Tel | | 45 | 1951 | J | D,8 | | | | |
| H-19 | J. O. Crowley | J. O. Crowley | D | 54 | 2 | Tci | | 39 | 1944 | J | D | 70 | 14 | 10 | |
| H-20 | W. J. Vickrey | W. J. Vickrey | D | 35 | 2 | Tci | | 23 | 1943 | Су | D,8 | • • | ٠ | | |
| H-21 | Huxford Baptist Church. | | D | 45 | 2 | Tci | | 35 | | P | D | 67 | 11 | 7 | |
| H-22 | Dewitt Cruit | | D | | 2 | Tci | | | | | | | | | |
| H-23 | Parrish McGhee | Etheridge Plumbing Co. | D | 42 | 2 | Tcl | 324 | 30 | | J | D | •• | 7 | 7 | |
| H-24 | R. O. Pryor | R. O. Pryor | ם | 34 | 14 | Tci | | 23 | | P | D | | | | |
| H-25 | Escambia County Board of Education. | Etheridge Plumbing Co. | D | 55 | 4 | Tci | 324 | 22 | 1953 | т | P | • • | 11 | 6 | School supply. See driller's log. |
| H-26 | R. O. Pryor | Rufus Bell | ם | 38 | 2 | Tcı | | 26 | 1944 | | D,8 | | 7 | 5 | Casing and screen: 2-in. to 38 ft. |
| H-27 | do | R. O. Pryor | D | 29.0 | 14 | Tci | 323 | 18.4 | 4-21-56 | J | D | | 7 | 4 | |
| H-28 | St. Louis and San Francisco Railroad. | | •• | 37.0 | 8 | Tci | 323 | 18.3 | 4-19-57 | • • | N | • • | | | Reported to have flowed until 1947. |
| H-29 | W. O. Parmer | W. O. Parmer | D | 29 | 2 | Tci | | 19 | | | D | | | | |
| H-30 | Tom Vickrey | Tom Vickrey | D | 26.4 | 14 | Tci | 322 | 17.6 | 5-25-56 | P | D | 67 | 11 | 6 | |
| H-31 | Z. H. Cox | Etheridge Plumbing Co. | D | 28 | 2 | Tci | | | | P | D | • • | | | Casing and screen: 2-in, to 28 ft. |
| H-32 | Frank Coker | Frank Coker | D | 40 | 2 | Tcl | 324 | 26 | 1952 | J | P | • • | | | Casing and screen: 2-in. to 40 ft. |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

| 1 | 1 | | | 1 1 | 1 | | | 1 1 | 9 | | I | 1 | | | 1 | I . |
|-----|-------|------------------------------|---------------------------|-----|------|----|-----|-------|------|---------|----|------|-----|------|----|--|
| | н-33 | J. W. Lassitter | J. W. Lassitter | D | 50 | 2 | Tci | | 35 | 1953 | J | D | | | | |
| - 1 | H-34 | Carl Jones | Rufus Bell | D | 60 | 2 | Tci | | 48 | 1953 | J | D | | | | Casing and screen: 2-in. to 60 ft. |
| | H-35 | R. C. Booker | B. B. Booker | D | 35 | 2 | Tci | 327 | 23 | | J | D | 69 | 7 | 8 | Casing and screen: 2-in. to 35 ft. |
| - 1 | H-36 | C. E. Hood | | D | 37.3 | 8 | Tci | 322 | 29.7 | 6- 4-56 | M | D | | | | |
| | H-37 | Alger Sullivan Lumber Co. | | | 60 | 2 | Tcl | • • • | 45 | | J | D, S | ••• | | | |
| | H-38 | Nathan Coker | Nathan Coker | D | 60 | 2 | Tci | | 45 | 1954 | J | D,S | | | | Casing and screen: 2-in. to 60 ft. |
| | H-39 | M. F. Etheridge | Etheridge Plumbing Co. | D | 73 | 3 | Tci | | 50 | 1952 | J | D,S | | | | See driller's log, |
| | H-40 | G. N. Coker | G. N. Coker | D | 50 | 2 | Tci | | 35 | 1946 | J | D,S | | | | |
| | H-41 | Melvin Folmer | Melvin Folmer | D | 25 | 14 | Tci | | 16 | | | D | | | | Casing and screen: 14-in. to 25 ft. |
| | H-42 | W. T. Daniels | W. T. Daniels | D | 28 | 14 | Tci | | 14 | 1945 | | D | | 11 | 16 | Casing and screen: 14-in. to 28 ft. |
| | H-43 | W. C. Keller | Etheridge Plumbing Co. | D | 45 | 2 | Tci | 323 | | | J | D | | | | Casing: 2-in, to 40 ft.; 2-in, screen from 40 to 45 ft. See driller's log. |
| | H-44 | L. Lomax | Peebles | D | 108 | 2 | Tci | | 58 | | J | D,S | | 7 | 13 | Casing and screen: 2-in. to 108 ft. |
| 1 | H-45 | Leonard Snyder | Leonard Snyder | D | 32 | 2 | Tci | | 18 | 1952 | P | D | | | | Casing and screen: 2-in. to 32 ft. |
| | H-46 | P. L. Dees | P. L. Dees | D | 98 | 2 | Tci | 311 | 33 | 1955 | J | D | 70 | 7 | 6 | See driller's log. |
| | H-47 | A. J. Snyder | A. J. Snyder | J | 48 | 2 | Tci | | 36 | | Су | D, S | 69 | 11 | 10 | |
| | H-48 | E. A. Ryland | E. A. Ryland | D | 42 | 2 | Tci | | 37 | 1951 | J | D,S | | ••• | | Casing and screen: 2-in. to 42 ft. |
| | H-49 | G. D. Summerlin | Etheridge Plumbing Co. | D | 72 | 2 | Tci | 328 | 48 | 1955 | Су | D | | | | Casing and screen: 2-in. to 72 ft. |
| | H-50 | T. J. Freeman | do | D | | 2 | Tci | 314 | | | J | D | 70 | 4 | 4 | |
| | *H-51 | D. Parker | do | D | 62 | 2 | Tci | 319 | 32 | 1953 | J | D, S | 70 | | | Casing: 2-in. to 58 ft.; 2-in. screen from 58 to 62 ft. See driller's log. |
| | H-52 | A. T. Vickrey | Childs | D | 42 | 2 | Tci | | | | J | D | | 1474 | | |
| | H-53 | W. D. Cruit | B. B. Booker | J | 46 | 2 | Tci | • • • | 26 | 1951 | J | D, S | | • • | | Casing: 2-in. to 42 ft.; 2-in. screen from 42 to 46 ft. |
| | H-54 | W. A. Mason | Childs | D | 33 | 2 | Tci | | 22 | 1950 | | D | 69 | 11 | 16 | |
| İ | H-55 | W. J. Salter | W. J. Salter | D | 37 | 2 | Tci | | 26 | 1954 | J | D, S | | | | |
| | H-56 | J. H. Nall | J. H. Nall | D | 34 | 2 | Tci | | 29 | | J | D | | 11 | 6 | |
| | H-57 | Charles Morris | Peebles | D | 112 | 2 | Tci | | 47 | 1950 | J | D | 70 | 11 | 14 | Casing and screen: 2-in, to 112 ft. |
| | H-58 | R. R. Manning | E. Kearley | J | 72 | 2 | Tci | | 52 | 1955 | J | S | | 7 | 6 | |
| | H-59 | J. H. Smith | | D | 90 | 2 | Tci | | | | Су | D | 67 | 7 | 5 | Casing and screen: 2-in. to 90 ft. |
| | | | | | | | | | | | | | | | | |

| | | | | | _ | | | Wate | r level | | l | Field | determ | inations | |
|-------|----------------------------------|---------------------------|------|-------------------------|---------------------------|-----------------------|------------------------------------|--|--------------------------|----------------|--------------|----------------------|------------------------|-------------------------------|--|
| Well | Owner | Driller | Туре | Depth of well (feet) | Diameter of well (inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of meas- urement | Method of 11ft | Use of water | Temperature (* F) | Chloride (Cl) (ppm) | Hardness as CaCO3 (ppm) | Remarks |
| H-60 | Ala. Div. of Forestry | | | 44 | 2 | Tci | | 22 | | P | D | | 7 | 5 | Casing and screen: 2-in. to 44 ft. |
| H-61 | J. C. Coker | J. C. Coker | D | 48 | 2 | Tci | | 36 | | J | D,8 | | 7 | 8 | Casing and screen: 2-in. to 48 ft. |
| H-62 | J. H. Parker | Etheridge Flumbing Co. | D | 144 | 2 | Tmu | 315 | | | J | D | | 11 | 8 | |
| H-63 | J. D. Leatherwood | B. B. Booker | 3 | 43 | 2 | Tci | | 28 | 1953 | 1 | D, S | 70 | 7 | 6 | |
| H-64 | J. Mack | Etheridge Plumbing Co. | D | 47 | 2 | Tei | 318 | 33 | 1954 | J | D | | •• | ••• | |
| H-65 | T. L. Parker | Rufus Bell | D | 40 | 2 | Tci | | 26 | 1950 | J | D,S | | | • • • | Casing and screen: 2-in. to 40 ft. Supplies 100 hogs and 10 cows. |
| H-66 | E. J. Chavers | | D | 36 | 2 | Tci | | 28 | 1954 | J | D | | | | Casing and screen: 2-in. to 36 ft. |
| H-67 | W. D. Ross | | В | 35 | 8 | Tci | | 23 | 1936 | | D, 8 | | | | |
| •H-68 | Hauss State Forestry Nursery. | Layne-Central Co | D | 290 | 18 8 | Tmu | 322 | 127.2 | 6-24-57 | T | D Irr | 70 | | ••• | Casing: 18-in. to 223 ft.; 8-in. from 223 to 228 ft., and 255 to 268 ft.; 9-in. screen from 226 to 255 ft., and from 366 to 281 ft. Measured drawdown 19.4 ft. after 24 hours pumping at 323 gpm on 7-23-57 and 7-24-57. Length of air line 180 ft. See driller's log. |
| H-69 | J. L. Cruits | B. B. Booker | D | 56 | 2 | Tci | | 38 | 1952 | J | D, S | ۱ ا | | | Casing and screen: 2-in. to 58 ft. |
| H-70 | R. A. Mason | D. C. Trouteman | ם | 65 | 2 | Tci | | | | Су | D | | | | Casing and screen: 2-in. to 65 ft. |
| H-71 | John Cruit | | D | 55 | 2 | Tci | | 35 | 1951 | J | D | | | | |
| H-72 | A. A. Bell | B. B. Booker | D | 50 | 2 | Tci | | 41 | 1950 | J | D | | | | Supplies 100 hogs and 30 cows. |
| H-73 | Rue Mason | D. C. Trouteman | D | 62 | 2 | Tci | | | | Су | D | | ••• | • • • | |
| H-74 | J. R. Gohagin | J. R. Gohagin | D | 60 | 2 | Tci | | 45 | | ı | D | | ••• | | Casing and screen: 2-in. to 60 ft. |
| H-75 | R. G. Dulaney | R. G. Dulaney | D | 59 | 2 | Tci | • • • | 48 | 1951 | 1 | D | 70 | 7 | 7 | Casing: 2-in. to 56 ft.; 2-in. screen from 56 to 59 ft. |
| H-76 | do | Rufus Bell | D | 67 | 2 | Tci | ••• | 45 | 1952 | 1 | D | | •• | | Casing: 2-in. to 63 ft.; 2-in. screen from 63 to 67 ft. |
| | | | | | | | | | | | | | | | |

| H-77 | J. R. Ward | J. R. Ward | D | 82 | 2 | Tci | | 57 | ļ |] , | D, B | | | | Casing and screen: 2-in. to 82 ft. |
|------|----------------------|---------------------------|-----|------|----|-----|----------|------|---------|-----|------|----------|----|----------|--|
| H-78 | Ruth Parker | Etheridge Plumbing | D | 60 | 2 | Tci | | 33 | 1952 | 1 | D | | | | |
| I- 1 | Lonnie Greer | | | | | Tci | | | | Су | D | | | 13 | |
| I- 2 | H. A. Boone | B. B. Booker | D | 105 | 14 | Tcl | | | ļ | P | D, 8 | | | | |
| 1- 3 | S. P. Reynolds | | В | 38.6 | 8 | Tci | 319 | 36.5 | 4-15-55 | м | N | | | | |
| I- 4 | Earl Adams | | | | | Tci | | | | Сy | D | 67 | 4 | 5 | |
| I- 5 | Stephen Parson | Stephen Parson | В | 49.9 | 8 | Tcl | 308 | 43.9 | 6- 7-58 | 3 | D, 8 | | 7 | 8 | |
| I- 6 | James Hall | Rufus Bell | ם | 60 | 2 | Tcl | 307 | 45 | | J | D, S | 70 | | | |
| I- 7 | C. H. Driskell | C. H. Driskell | D | 62 | 2 | Tci | 306 | 50 | 1950 | J | D | | 11 | 10 | |
| I- 8 | S. B. Hall | E. Catrett | D | 43 | 2 | Tci | | | | Су | D,S | 69 | 0 | 5 | Casing and screen: 2-in. to 43 ft. |
| 1- 9 | Rogers Hadley | Rogers Hadley | D | 40 | 2 | Tcl | | | | J | D | ٠. | 0 | 19 | |
| I-10 | R. L. Hadley | | В | 32.0 | 8 | Tci | | 29.0 | 4-15-56 | м | 8 | 69 | 83 | 25 | |
| I-11 | Robert Hadley, Jr | Etheridge Plumbing Co. | Φ . | 48 | 2 | Tcl | 305 | | | J | D | | •• | | See driller's log. |
| I-12 | J. M. Smith | | В | 36.3 | 6 | Tci | 316 | 35.6 | 4-15-56 | м | N | | | | |
| I-13 | do | Childs | D | 38 | 2 | Tci | | | ļ | 1 | D | 68 | 0 | 12 | |
| I-14 | Harry Akin | | σ | 60 | 2 | Tcl | | 50 | 1953 | J | D, 8 | | | | |
| I-15 | Alvis Respress | Alvis Respress | ם | 60 | 2 | Tci | 286 | 46 | 1951 | J | D,S | | | | |
| I-16 | J. L. Coon | J. L. Coon | D | 60 | 2 | Tci | 298 | 48 | 1953 | Су | D | 71 | 7 | 14 | |
| I-17 | J. H. Dannelley | Rufus Bell | σ | 62 | 2 | Tci | 300 | 48 | 1950 | J | D, 8 | 71 | 11 | 7 | Casing and screen: 2-in. to 62 ft. |
| I-18 | J. W. Respress | J. W. Respress | p | 60 | 2 | Tci | 300 | 46 | | J | D,S | | | | |
| I-19 | A. E. Mack | Rufus Bell | D | 40 | 2 | Tel | 296 | 28 | 1949 | J | D | | 11 | 10 | Casing and screen: 2-in. to 40 ft. |
| 1-20 | R. D. Morgan | Etheridge Plumbing Co. | ם | 43 | 2 | Tci | 294 | 28 | 1955 | 3 | D | | | | Casing: 2-in. to 38 ft.; 2-in. screen from 38 to 43 ft. See driller's log. |
| I-21 | W. O. Day | | D | 73 | 2 | Tci | | 48.6 | 6-11-56 | J | D,S | | 14 | 9 | |
| J- 1 | Walter Robinson | Rufus Bell | σ | 42 | 2 | Tci | | 30 | | J | D | | ١ | | |
| J- 2 | Leona Bowman | | В | 43.0 | 10 | Tci | 300 | 37.8 | 6- 7-56 | м | D | | | | |
| J- 3 | Walter Mack | | D | 50 | 2 | Tci | | 40 | 1955 | J | D | 70 | ١ | | |
| J- 4 | Walter Robinson | Rufus Bell | D | 44 | 2 | Tci | ļ | 30 | | 3 | D,S | | | | Casing and screen: 2-in, to 44 ft. |
| J- 5 | Frank Currie Gin Co. | Etheridge Plumbing Co. | D | 80 | 4 | Tci | 302 | | | J | Ind | | 14 | 10 | Casing: 4-in. to 70 ft.; 2-in. screen from 70 to 80 ft. See driller's log. |
| | | | | | | | | | | | | | | | |

| | | | | | - | | | 100000 | er level | | | Field | detern | ninations | |
|-----|-------------------------------------|---------------------------|------|-------------------------|---------------------------|-----------------------|------------------------------------|--|--------------------------|----------------|--------------|----------------------|------------------------|---|---|
| ell | Owner | Driller | Type | Depth of well (feet) | Diameter of well (inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of meas- urement | Method of 11ft | Use of water | Temperature (° F) | Chloride (CI) (ppm) | Hardness as CaCO ₃ (ppm) | Remarks |
| 6 | Elsie Drewrell | | В | 48.6 | 8 | Tci | | 34. 4 | 6-12-56 | м | D | | | | |
| 7 | Escambia County Board of Education. | Etheridge Plumbing Co. | D | 80 | 3 | Tci | 298 | 45 | 1951 | J | P | *(0*) | 11 | 8 | Casing: 3-in, to 70 ft.; 3-in, screen from 70 to 80 ft. Reported yield 30 gpm after pumping 48 hours in 1951. Used for school supply. See driller's log. |
| 8 | Fred Drew | Rufus Bell | D | 52 | 2 | Tci | | 30 | 1953 | J | D | | 7 | 9 | Casing and screen: 2-in. to 52 ft. |
| 9 | Inez Presswood | | В | 41.7 | 8 | Tci | 300 | 34. 2 | 6-14-56 | М | D | | | | |
| 10 | E. D. Drew | E. D. Drew | J | 42 | 2 | Tci | | 23 | 1955 | J | D | | | | |
| 11 | J. L. Jones | | D | 45 | 2 | Tci | | 35 | 1956 | J | D,S | | | | |
| 12 | Bernice Lassiter | | D | 58 | 2 | Tci | | 38 | 1951 | J | D,S | 70 | 25 | 10 | Casing and screen: 2-in. to 58 ft. |
| 13 | Buford Coon | Buford Coon | D | 55 | 2 | Tcl | | 36 | 1956 | J | D,S | | | | Casing and screen: 2-in, to 55 ft. |
| 14 | do | do., | D | 52 | 2 | Tci | | 36 | 1953 | J | D,S | ٠. | | | Casing and screen: 2-in. to 52 ft. |
| 15 | M. L. Murph | Rufus Bell | D | 60 | 2 | Tci | | | | J | D,S | 71 | 7 | 9 | |
| 16 | J. A. Weaver | J. A. Weaver | D | 68 | 2 | Tci | | 52 | 1946 | J | D,S | | | | Casing and screen: 2-in, to 68 ft. |
| 17 | Sandy McCullough | | В | 40.0 | 8 | Tci | | 33.0 | 6-26-57 | М | D | | | | |
| 18 | M. C. Lassitter | Etheridge Plumbing Co. | D | 65 | 2 | Tci | 316 | | | J | D,S | 70 | | | |
| 19 | Inez Presswood | | D | 63 | 2 | Tci | | 43 | | J | D | 70 | 11 | 22 | Casing and screen: 2-in, to 63 ft. |
| 20 | Kendall Taylor | | Dr | | 8 2 | Tci | 313 | 43. 2 | 6-26-56 | J | D | • • | 7 | 13 | |
| 21 | E. Strength | E. Strength | В | 43.0 | 9 | Tci | 314 | 35, 6 | 7-16-56 | М | D | 68 | 11 | 8 | |
| 22 | do | do | В | 49.5 | 9 | Tci | 312 | 40.9 | 7-16-56 | м | D | 68 | | | |
| 23 | M. E. Wasdin | do | D | 45 | 8 | Tci | | 25 | 1920 | J | D | 70 | 11 | 8 | |
| 24 | W. L. Bray | W. L. Bray | D | 35 | 2 | Tci | | 26 | | J | D,S | | | | Casing and screen: 2-in. to 35 ft. |
| | | | do | | | | | | | | | | | | |

| J-25 | J. T. Shiver | D. Gibbs | D | 50 | 2 | Tci | | 40 | 1952 | J | D | | 21 | 19 | Casing and screen: 2-in. to 50 ft. |
|-------|---------------------|---------------------------|----|-------|----|-----|-----|-------|---------|----|------|-----|----|----|--|
| J-26 | do | Rufus Bell | D | 228 | 2 | Tmu | | 200 | 1952 | Су | D | | | | |
| ·J-27 | L. B. Still | Etheridge Plumbing Co. | D | 50 | 2 | Tci | 309 | 35 | 1954 | J | D,S | | | | Do. |
| J-28 | C. T. Helton | do | D | 40 | 14 | Tci | 312 | 25 | 1952 | J | D, S | | 11 | 10 | |
| J-29 | J. W. Caraway | J. W. Caraway | ם | 65 | 2 | Tci | | 50 | 1950 | J | D, S | | | | |
| J-30 | Aubry Steadham | Etheridge Plumbing Co. | D | | 2 | Tci | 311 | | | | | | | | |
| J-31 | Bertha Steadham | do | D | 51 | 2 | Tci | 313 | 32 | 1950 | J | D, S | | 11 | 5 | |
| J-32 | John Steadham | do | D | 52 | 2 | Tci | 293 | | | J | D | | | | Casing: 2-in. to 47 ft.; 2-in. screen from 47 to 52 ft. See driller's log. |
| J-33 | Rufus Steadham | Rufus Steadham | D | 42 | 11 | Tci | | 32 | | P | D | | | | |
| J-34 | W. P. Bates | Rufus Bell | D | 24. 5 | 14 | Tci | 310 | 17.0 | | P | D,S | 69 | 18 | 27 | |
| J-35 | Murray Bryant | | D | 33 | 14 | Tci | | 20.0 | | P | D | | 18 | 20 | |
| J-36 | W. M. Brown | D. Troutman | D | 42 | 2 | Tci | | 20 | 1955 | J | D | | | | |
| J-37 | Gerther L. Staples | Gene Robinson | D | 31.4 | 14 | Tci | | 21. 2 | 6-19-56 | P | D | 70 | 7 | 5 | } |
| J-38 | Rob Rolin | Rob Rolin | D | 37.3 | 14 | Tcl | 296 | 22. 8 | 6-27-56 | P | D, S | 68 | 11 | 14 | |
| J-39 | do | Etheridge Plumbing Co. | D | 40 | 2 | Tci | | | | J | D | | | | Casing: 2-in. to 35 ft.; 2-in. screen from 35 to 40 ft. See driller's log. |
| J-40 | Adam Daughtery | do | D | 50 | 2 | Tci | 297 | 48 | 1953 | J | D,S | | 11 | 12 | See driller's log. |
| J-41 | Friendly Church | R. M. McGhee | D | 29. 1 | 14 | Tci | | 22.0 | 6-27-56 | P | D | 68 | 11 | 8 | |
| J-42 | Noah McGhee | Noah McGhee | D | 36. 5 | 14 | Tci | 295 | 24.7 | 6-19-56 | P | D | 68 | 11 | 4 | |
| J-43 | Jim Presley | Rufus Bell | D | 41 | 2 | Tci | | 35 | 1954 | J | ם | 69 | 7 | 4 | |
| J-44 | George Montgomery . | | D | 45 | 2 | Tci | | 35 | 1952 | J | D, S | 69 | 11 | 6 | Casing and screen: 2-in. to 45 ft. |
| J-45 | E. M. Hall | E. M. Hall | D | 25 | 11 | Tci | | 17 | | J | D, S | | 7 | 6 | Casing and screen: 14-in. to 25 ft. |
| J-46 | H. G. Agee | H. G. Agee | Dr | 21 | 14 | Tcl | | 14 | 1956 | J | D | 67 | 11 | 10 | Casing and screen: 1½-in. to 21 ft. |
| J-47 | E. J. Hall | E. J. Hall | Dr | 21 | 14 | Tci | | 15 | 1953 | P | D,S | ٠٠. | 28 | | Casing and screen: 1½-in. to 21 ft. Supplies 50 hogs and 40 cows. |
| J-48 | S. H. Malone | S. H. Malone | D | 34 | 11 | Tci | | 26 | 1953 | J | D | 67 | 11 | 8 | |
| J-49 | Episcopal Church | Dan McGhee | D | 31.3 | 11 | Tci | 296 | 24.6 | 6-29-56 | P | D | 69 | 11 | 9 | |
| J-50 | Alton Jackson | E. McGhee | D | 23.9 | 14 | Tci | | 16.9 | 7-18-56 | P | D | 71 | 14 | 12 | |
| J-51 | Tracy Rolin | Elbert Rolin | D | 15 | 11 | Tci | | 10 | 1954 | P | D | 69 | 14 | 10 | |

| | | [| | | | | | Wat | er level | | | Field | deter | ninations | |
|------|-----------------|---------------------------|------|-------------------------|------------------------------|-----------------------|------------------------------------|--|--------------------------|----------------|--------------|----------------------|------------------------|---|--|
| Well | Owner | Driller | Туро | Depth of well (feet) | Diameter of well (inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of meas- urement | Method of 11ft | Use of water | Temperature (* F) | Chloride (CI) (ppm) | Hardness as CaCO ₃ (ppm) | Remarks |
| J-52 | D. Z. Weaver | | D | 25 | 14 | Tcl | | 17 | 1955 | J | D, S | | 11 | 8 | |
| J-53 | Tracy Rolin | Etheridge Plumbing Co. | D | 60 | 2 | Tcl | 306 | • • • • | | J | D,S | 71 | 11 | 8 | Casing: 2-in. to 55 ft.; 2-in. screen from 55 to 60 ft. See driller's log. |
| J-54 | Eugene Sells | do | D | 60 | 2 | Tcl | 307 | 50 | 1951 | J | ם | 72 | 11 | 8 | Do. |
| J-55 | Will McGhee | do | ם | 60 | 2 | Tei | 306 | 50 | 1952 | J | D | 72 | 7 | 8 | Do. |
| J-56 | A. D. Martin | do | D | 57 | 2 | Tci | 294 | | | J | D | 71 | 11 | 6 | Casing: 2-in. to 52 ft.; 2-in. screen from 52 to 57 ft. See driller's log. |
| J-57 | Irvin Rhodes | Irvin Rhodes | В | 40, 1 | 10 | Tcl | 295 | 29.8 | 7-17-56 | м | D | | | | |
| J-58 | Marshall Hall | Marshall Hall | D | 57 | 2 | Tci | | 37 | | J | D | 72 | 11 | 6 | Casing and screen: 2-in. to 57 ft. |
| J-59 | W. E. Hale | | В | 53.9 | 8 | Tci | 297 | 36.3 | 7-17-56 | м | D | | | | |
| J-60 | Mary Green | | В | 56. 2 | 10 | Tci | 299 | 36.0 | 7-17-56 | м | D | | | | |
| J-61 | K. E. Green | K. E. Green | D | 55 | 2 | Tci | 300 | | | J | D, S | 71 | 11 | 10 | Casing and screen: 2-in, to 55 ft. |
| J-62 | J. H. Stephanus | Rufus Bell | D | 38 | 2 | Tci | | 25 | 1952 | J | D, S | | | | Casing and screen: 2-in, to 38 ft. |
| J-63 | W. E. James | Etheridge Plumbing Co. | 1 | 113 | 2 | Tci | 298 | 31 | 1958 | J | D | 70 | 7 | 19 | See driller's log. |
| J-64 | L. B. Williams | do | ם | | 2 | Tci | 298 | | | J | D | | 7 | 10 | |
| J-65 | Raymond Banks | Raymond Banks | ם | 31, 2 | 14 | Tci | | 26.0 | 6-28-56 | P | D | 69 | 21 | 7 | |
| J-66 | Sarah Hall | | | 47 | 2 | Tci | | 39 | 1954 | J | D,S | | 14 | 11 | |
| J-67 | Jane Landsey | Gene Robinson | D | 30 | 1‡ | Tci | | | | P | D | | | | |
| J-68 | James Lamar | James Lamar | D | 27.8 | 1‡ | Tei | | 20.6 | 6-29-56 | P | D | 69 | 11 | 10 | |
| J-69 | I. H. Lamar | Etheridge Flumbing Co. | D | 55 | 2 | Tci | | 24 | 1954 | J | D | • • | • • | | Casing: 2-in. to 50 ft.; 2-in. screen from 50 to 55 ft. See driller's log. |
| J-70 | Hubert Laler | Gene Robinson | D | 38 | 1‡ | Tci | | 30 | . | P | D | 69 | 11 | 8 | Casing and screen: 14-in. to 38 ft. |
| | | | | | | | | | | | | | | | |

| | | , | 1 | | | | | | | | | | | | | İ |
|-----|------|------------------------------|-------------------------------|---|-------|------|------------|-----|-------|---------|----|----------|----|----|-----|---|
| | K- 1 | Atmore State Prison Farm. | Gray Artesian Well Co. | D | 172 | 8 | Tmu | 318 | 118 | | т | P | | | | Casing: 8-in, to 118 ft.; 8-in, screen from 118 to 172 ft. Reported yield 250 gpm. See driller's log for test well drilled to 176 ft. |
| | K- 2 | do | Spillers Well and Pump Co. | D | | | Tmu (?) | | | l | | P | •• | | ••• | |
| 1 | K- 3 | W. J. Ross | W. J. Ross | D | 80 | 2 | Tel | | 65 | ļ | J | D, 8 | | 7 | 12 | Casing and screen: 2-in. to 80 ft. |
| ł | K- 4 | R. L. Roberts | B. B. Booker | D | 60 | 2 | Tci | | | ļ | С | D, S | ١ | 4 | 7 | |
| ļ | K- 5 | H. L. Ross | | В | 60.2 | 8 | Tci | 317 | 49.4 | 5-15-56 | м | D | | | | |
| | K- 6 | M. O. Davis | M. O. Davis | В | 40.5 | 8 | Tci | 309 | 33.1 | 5-16-57 | | N | | | | |
| | K- 7 | do | Etheridge Plumbing Co. | D | 69 | 2 | Tci | 307 | 35 | 1952 | J | D, S | 70 | 7 | 9 | See driller's log. |
| | K- 8 | Clyde Purnell | do | D | 91 | 2 | Tci | 327 | 64 | 1956 | J | D, S | 71 | 7 | 9 | Casing: 2-in. to 76 ft.; 2-in. screen from 76 to 91 ft. Cylinder at 73 ft. See driller's log. |
| - 1 | K- 9 | Lamar King | Lamar King | В | 72, 5 | 4 | Tci | | 60.5 | 5-10-56 | м | D | 68 | 21 | 10 | |
| | K-10 | Atmore State Prison Farm. | Etheridge Plumbing Co. | D | 82 | 2 | Tci | 298 | | | 3 | D | | 11 | 8 | Casing: 2-in, to 77 ft.; 2-in, screen from 77 to 82 ft. See driller's log. |
| | K-11 | W. W. Vickery | do | D | 69 | 2 | Tci | 296 | 58 | | J | D | 70 | 11 | 16 | |
| 1 | K-12 | do | | D | 41.2 | В | Tci | 294 | 32. 4 | ļ | м | D | | | | |
| Ì | K-13 | C. W. McGhee | Etheridge Flumbing Co. | D | | 2 | Tci | 294 | | } | J | D, S | | | ••• | |
| | K-14 | Atmore State Prison Farm. | | D | 170 | 4 | Tmu | 294 | | } | т | 8 | | 11 | 17 | Casing: 4-in. to 170 ft. |
| - [| K-15 | do | | D | 74 | 2 | Tci | | 56 | | J | D, S | ١ | 7 | 9 | Supplies 750 hogs. |
| 1 | K-16 | Charles Conway | Jim White | В | 34.9 | 8 | Tcl | 262 | 22, 3 | 5-10-56 | M | D,S | 69 | 18 | 30 | Supply inadequate during dry season. |
| ĺ | K-17 | Elisha Shank | Etheridge Plumbing Co. | D | 83 | 2 | Tci | 267 | 50 | 1955 | J | D | | | ••• | |
| • | K-18 | E. M. Terry | Rufus Bell | D | 103 | 2 | Tcl | 298 | | | J | D, 8 | 70 | | | See driller's log. |
| | K-19 | J. F. Digman | Etheridge Plumbing Co. | D | ••• | 2 | Tcl | 285 | | | 3 | D,S | 72 | 7 | 7 | · |
| | K-20 | J. C. Lufkin | | D | 64.3 | 4 | Tci | 283 | 37.4 | 6- 5-56 | J | s | | 7 | 9 | Supplies 3,000 chickens and 50 cattle. |
| | K-21 | Luia Jones | W. R. Bell | D | 55 | 21/2 | Tci | | 44 | 1950 | J | D Ind | | 7 | 8 | Casing and screen: 2½-in. to 55 ft. |
| | K-22 | A. W. Beasley | Rufus Bell | D | 78.0 | 2 | Tei | 286 | 68.2 | 1-10-57 | J | D, S | | 14 | 14 | Casing and screen: 2-in. to 78 ft. |
| | K-23 | Z. C. Robinson | Etheridge Plumbing Co. | D | 74 | 2 | Tei | 274 | | | J | D, S | ٠. | 7 | 9 | |
| 1 | K-24 | J. E. Middleton | B. B. Booker | D | 100 | 2 | Tci | | 85 | | Су | D | | 7 | 6 | |
| | | | | | | | | | | | | | 1 | | | |

Water level Field determinations Altitude of land surface (feet) Water-bearing unit Above (+) or below land surface (feet) Method of lift Chloride (CI) (ppm) water Date of meas urement Use of Remarks Well Owner Driller C₹ D Water leaves red stain. K-25 M. Lewis Rufus Bell D K-28 J. S. Owens. J. S. Owens. D 52 Tci 41 1946 Cy D, S Casing and screen: 2-in, to 95 ft. K-27 T. S. Owens T. S. Owens D 95 Tci 75 Су 7 Ind C. Smith..... -- Hendrick..... J 154 Tmu 120 1952 Cy D,8 7 D 100 Tci Су Casing and screen: 2-in. to 100 ft. Allen Smith do 67 Tcl Сy Су D.8 121 2 Tci Tci 35.1 2- 9-56 м D. S . . . N. L. Coleman. . . . -- Boggan Tci 30.8 5-25-56 M D Casing and screen: 2-in, to 75 ft. 75 Tci Сy Casing and screen: 2-in, to 85 ft. J. B. Graham Rufus Bell D 85 Tci 62 1953 Су M 40. Tci 3-27-56 R. A. Hobbs 1946 55 Tci 40 . . . C. E. Hollanhead . . . -- Hendrick Tci D.S L-12 J. H. Byrd Etheridge Plumbing D Tci 309 J. P. Booth.........do......do D 85 2 Tci 314 60 1952 J D.S 68 11 See driller's log. 2 Tcl 313 54 1950 J D 60 Tcl D В 19. 1 8 Tci 18.8 3-27-56 M D . . . C. J. Peacock -- Goddard В 5-24-56 М 68.6 Tci 66.5 D . . . H. C. Steward Dr 38 Tci 26 ...

Table 4.-Records of wells in Escambia County, Ala.-Continued

| 1 1 | 1 | 1 | 1 1 | | | 1 | í | ı | 1 | ſ | ſ | 1 | ı | ſ | I |
|------|-----------------|---------------------------|-----|-------|-----|---|-------|-------|-------------|----|------|-------|----|-----|--|
| L-19 | Clyde Peacock | Clyde Peacock | В | 59. 5 | 10 | Tci | | 42.0 | 5-27-56 | м | D, S | | ١ | | |
| L-20 | J. L. English | Etheridge Plumbing Co. | D | 120 | 2 | Tel | 293 | | | Су | D, S | | | | See driller's log. |
| L-21 | do | | В | 38.8 | 8 | Tci | 269 | 27.3 | 3-27-56 | м | 8 | | ١ | | |
| L-22 | W. H. Myrick | W. H. Myrick | В | 70.2 | 8 | Tel | | 64.4 | 3-27-56 | м | D | | | | |
| L-23 | Pete Sellers | Etheridge Plumbing Co. | D | 118 | 2 | Tcl | 283 | | · · · · · · | Су | D, 8 | | | | Do. |
| L-24 | F. A. Steward | do | В | 74.8 | 8 | Tci | 283 | 66.2 | 3-28-56 | м | D,S | 69 | 7 | 10 | |
| L-25 | do | do | D | 110 | 4 | Tci | 285 | 68.0 | 1956 | т | D,8 | ٠. | 11 | 6 | Do. |
| L-26 | do | do | σ | 110 | 2 | Tci | 285 | | | Су | D,8 | | | | Casing and screen: 2-in. to 110 ft. |
| L-27 | H. Peacock | | В | 53.9 | 8 | Tci | | 48,6 | 3-28-56 | м | D | | | | |
| L-28 | A. B. Bell | Etheridge Plumbing Co. | D | 85 | 2 | Tci | 273 | | | J | D, 8 | | | ••• | See driller's log. |
| L-29 | L. B. Moye | do | 3 | 73 | 2 | Tci | 266 | | | J | D | ۱ | | | Do. |
| L-30 | E. Robertson | | В | 50.4 | 8 | Tci | • • • | 47.6 | 2- 8-56 | M | D, S | 68 | 11 | 19 | |
| L-31 | T. W. Miller | T. W. Miller | В | 26.6 | 8 | Tci | 271 | 13.8 | 2-28-56 | M | D, S | 67 | 7 | 48 | |
| L-32 | C. W. Steward | Hendricks | D | 60 | 2 | Tci | | | | 3 | D, 8 | | | | Casing and screen: 2-in. to 60 ft. |
| L-33 | William Conway | | Du | 63.5 | 18 | Tmu | | 44.5 | 1-10-57 | м | N | | | | |
| L-34 | E. L. Conway | Jim White | В | 43.5 | 8 | Tci | 231 | 27.3 | 5-16-57 | М | D | 70 | 7 | 37 | |
| L-35 | Clifton Hobbs | | В | 26.7 | 8 | Tci | | 20.3 | 5- 1-56 | М | D | | | | |
| L-36 | Louis Robertson | | В | 37.0 | • • | Tci | • • • | 17.6 | 2- 8-56 | j | D, 8 | | | | |
| L-37 | C. M. Burkett | | Du | 23.0 | 40 | Tci | | 20.2 | 2- 8-56 | М | D, S | | | | |
| L-38 | Lem Boutwell | 1 | Du | 53.4 | 8 | Tcl | • • • | 52, 2 | 2- 8-56 | м | D,S | | | | |
| L-39 | W. M. Burkett | W. M. Burkett | Du | 29.0 | 40 | Tcl | • • • | 28.9 | 2- 8-56 | М | D,8 | | | | |
| M- 1 | R. W. Odom | ! | В | 18.6 | 8 | Tmu | 156 | 12.0 | 3- 2-55 | P | D | 65 | 4 | 18 | |
| M- 2 | do | Co. | D | 693 | 4 | To The Time Time Time Time Time Time Time Tim | 153 | 9.7 | 4-26-55 | | D, S | | | | Casing: 4-in. to 206 ft. Originally drilled to depth of 410 ft., later deepende to 695 ft. Flowed when first drilled. See driller's log. |
| M- 3 | H. A. Bell | H. A. Bell | D | 65 | 2 | Tci | • • • | | | СУ | D,8 | • • | ° | 4 | |
| M- 4 | J. B. Robinson | | | | 2 | Tci | | | | J | D | • • • | 1 | 6 | |

| | | 1 | | | | | | Wat | ter level | | | Field | detern | ninations | |
|------|------------------|---------------------------|------|-------------------------|---------------------------|-----------------------|------------------------------------|--|--------------------------|----------------|--------------|----------------------|------------------------|---|--|
| Well | Owner | Driller | Туре | Depth of well (feet) | Diameter of well (inches) | Water-bearing unit | Altitude of land Burface (feet) | Above (+) or below land surface (feet) | Date of meas- urement | Method of 11ft | Use of water | Temperature (* F) | Chloride (CI) (ppm) | Hardness as CaCO ₃ (ppm) | Remarks |
| M- 5 | Calvin Morris | | D | 80 | 2 | Tci | | | | J | D | | 1 | 7 | |
| M- 6 | J. C. Bagwell | J. C. Bagwell | D | 80 | 2 | Tci | 286 | 64 | 1945 | J | D,S | | 13 | 20 | Casing: 2-in. to 74 ft.; 2-in. screen from 74 to 80 ft. |
| M- 7 | Archie Strength | Etheridge Plumbing Co. | D | 60 | 2 | Tcl | 272 | 50 | 1953 | Су | s | 69 | 0 | 10 | 50 IL |
| M- 8 | do | do | D | 112 | 2 | Tci | 304 | 92 | 1953 | Су | 8 | 69 | 0 | 8 | |
| M- 9 | do | do | Þ | 110 | 2 | Tci | 309 | 85 | 1953 | J | D | 69 | 0 | 9 | See driller's log. |
| M-10 | B. F. Strength | | D | 85 | 2 | Tci | | 73 | 1949 | Су | D, 8 | | 1 | 7 | Casing: 2-in. to 80 ft.; 2-in. screen from 80 to 85 ft. |
| M-11 | L. N. Miller | L. N. Miller | D | 78 | 4 | Tel | 293 | 68 | | Су | D, S | 69 | 1 | 6 | Casing: 4-in. to 74 ft.; 4-in. screen from 74 to 78 ft. |
| M-12 | Frank Strength | J. C. Hendricks | D | 120 | 2 | Tci | | 80 | 1945 | 3 | D,S | | 1 | 8 | Casing: 2-in. to 115 ft.; 2-in. screen from 115 to 120 ft. |
| M-13 | do | | ם | 65 | | Tci | | 50 | 1953 | Су | D,8 | 70 | 1 | 6 | |
| M-14 | N. E. Lee | N. E. Lee | D | 93 | 2 | Tci | | | | • • | ם | | 1 | 8 | Casing: 2-in. to 88 ft.; 2-in. screen from 88 to 93 ft. |
| M-15 | H. M. Johnson | H. M. Johnson | В | 66.9 | 9 | Tci | 293 | 63.7 | 8-22-55 | м | D,S | 69 | 1 | 11 | |
| M-16 | do | do | Du | 30.6 | 33 | Tci | 293 | 26.6 | 8-22-55 | м | 8 | | • • | | |
| M-17 | Kenneth George | | D | 100 | 2 | Tci | 300 | 86 | | Су | D, S | 70 | 2 | 8 | Casing: 2-in. to 95 ft.; 2-in. screen from 95 to 100 ft. |
| M-18 | Eugene Lee | | D | | | Tci | | | | Су | D,S | | 0 | 4 | |
| M-19 | F. P. Pridgen | G. Hutto | D | 92 | 2 | Tci | | 81 | 1950 | J | D,8 | | 0 | 7 | |
| M-20 | A. V. Ward | Warrick | D | 80 | 2 | Tci | | 72 | 1953 | J | D | | 2 | 7 | |
| M-21 | J. H. Hutto | J. H. Hutto | D | 80 | 2 | Tci | | 70 | 1952 | 3 | D | 72 | 1 | 7 | |
| M-22 | N. T. Johnson | Byrd | D | 88 | 2 | Tci | | 76 | 1954 | J | D | | 1 | 4 | |
| M-23 | | | D | 80 | 2 | Tcl | | | | Су | D, S | •• | 1 | 4 | |
| M-24 | George Robertson | George Robertson | D | 93 | 2 | Tci | 305 | 78 | | С | D, S | 70 | 0 | 4 | |
| M-25 | ller Odom | Etheridge Plumbing Co. | D | 80 | 2 | Tcl | | | | J | D,S | •• | •• | ••• | |

| M-26 | W. R. Bagwell W. R. | Bagwell | D | 93 | 1 2 | Tci | 1 | 74 | 1946 | J | D,8 | ١ | 1 1 | 11 | Supplies 100 hogs and 20 cattle. |
|-------|--------------------------|---------------|----|-------|-----|------------|-----|-------|---------|----|------|-----|-----|----|---|
| M-27 | | lland | п | 99 | 2 | Tci | | 79 | 1954 | c | s | 68 | 0 | 7 | |
| M-28 | | idge Plumbing | D | 80 | 2 | Tcl | | 55 | 1951 | С | D,8 | | 0 | 6 | Casing: 2-in. to 75 ft.; 2-in. screen from 75 to 80 ft. See driller's log. |
| M-29 | L. J. Dewberry J. B. | Godwin | D | 70 | 2 | Tci | | | | Су | D,S | 69 | 0 | 6 | |
| M-30 | E. E. Chance | | | | 2 | Tci | | | | J | D, S | | 1 | 7 | |
| м-31 | Otis Emmons Ether. | idge Plumbing | Д | 80 | 2 | Tci | 249 | 54 | 1955 | J | D,S | | 0 | 8 | See driller's log. |
| M-32 | E. E. Chance | | | | | Tci | | | | P | ם | 69 | 2 | 9 | |
| м-33 | T. J. Godwin Robbi | ns-McGowin | D | 50 | 2 | Tci | | | | J | D,S | | 0 | 7 | |
| M-34 | Buford Godwin | | | | | Tmu | | | | | D | | 11 | 19 | |
| M-35 | W. W. Ingram | | | 16 | 14 | Qal | | 10 | | J | D | | | | |
| м-36 | | | •• | • • • | 14 | Tmu (?) | 115 | + 3.7 | 3- 2-55 | F | N | 68 | 3 | 73 | Measured flow 1.0 gpm on 3-2-55. Well plugged just below surface. |
| M-37 | S. R. Parker S. R. | Parker | | 20 | 14 | Qal | | | | P | D,S | | | | |
| M-38 | Edgar Strength | | | 20. 5 | 12 | Tmu | | 16.9 | 9-21-55 | P | D | | 8 | 8 | <u> </u> |
| M-39 | Marshall Godwin Marsh | hall Godwin | | 24.3 | | Tmu | | 10.3 | 9-21-55 | P | D, S | | 2 | 8 | |
| M-40 | T. J. Welsh He | ndricks | D | 90 | | Tcl | | | | Су | D | ٠٠. | 0 | 8 | |
| *M-41 | Cyril Welsh | | Д | 232 | 4 | Tci Tmu | 241 | 75 | 1949 | J | D,S | 70 | | | Casing: 4-in. to 75 ft. and from 80 to 90 ft. and 100 to 215 ft.; 4-in. screen from 75 to 80 ft., 90 to 100 ft., and 215 to 232 ft. |
| M-42 | E. Morris | | | 22.7 | 11 | Tci | 227 | 20. 1 | 9-22-55 | P | ם | 70 | 16 | 24 | |
| M-43 | F. T. Lee | | D. | 85 | 3 | Tci | | | | Су | D,S | | | | |
| M-44 | Fred Jones | | D | 85 | 3 | Tcl | | | | J | D | | 4 | 8 | Supply inadequate. |
| M-45 | J. H. Byrd Ether: Co. | idge Plumbing | D | 70 | | Tci | | | | Су | D,S | | | | |
| M-46 | T. Boatwright | | J | 89 | 2 | Tci | | | | Су | D,S | | ١ | | |
| M-47 | J. A. Bandorand B. B. | Booker | J | 100 | 2 | Tci | | | | Су | D,S | | | | Casing and screen: 2-in. to 100 ft. |
| M-48 | Charlie Howard | | | | 2 | Qal | | | | | D,S | | | | |
| M-49 | Roy Hammoc | | D | 125 | 2 | Tmu | | 55 | 1947 | Су | D,S | 69 | 2 | 28 | |
| N- 1 | C. C. Huxford Albert | t Beasley | J | 150 | 2 | Tmu | | 135 | 1951 | Су | N | | | | |
| N- 2 | do | | В | 33. 1 | 7 | Tci | 261 | 28.7 | 7-14-55 | М | D | 68 | 8 | 8 | |
| N- 3 | C. C. Hammoc | | D | 78 | 2 | Tci | | | | J | D,S | | 1 | 4 | |
| N- 4 | D. E. Morris D. E. | Morris | D | 65 | 2 | Tci | | | ····· | Су | D | 70 | 0 | 4 | Casing: 2-in. to 60 ft.; 2-in. screen from 60 to 65 ft. |

| | | | 9 | | _ | | | Wat | er level | | | Field | i deterr | ninations | |
|------|---------------------|---------------------------|------|-------------------------|------------------------------|-----------------------|------------------------------------|--|--------------------------|----------------|--------------|----------------------|------------------------|---|--|
| Well | Owner | Driller | Type | Depth of well (feet) | Diameter of well (inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of meas- urement | Method of lift | Use of water | Temperature (* F) | Chloride (Cl) (ppm) | Hardness as CaCO ₃ (ppm) | Remarks |
| N- 5 | Emma Steele | E. L. Steele | В | 27 | 14 | Tci | **** | | | Су | D | 68 | 2 | 10 | Casing: 1½-in. to 25 ft.; 1½-in, screen from 25 to 27 ft. |
| N- 6 | C. C. Huxford | | В | 16.2 | 14 | Tci | 294 | 12.7 | 7-14-55 | p | N | • • • | | | |
| N- 7 | J. C. Shenk | Etheridge Plumbing Co. | D | 95 | 4 | Tmu | | | | J | D,S | •• | | | Casing: 4-in. to 85 ft.; 4-in. screen from 85 to 95 ft. See driller's log. |
| - 8 | George Washington . | G. Washington | D | 94 | 2 | Tmu | | | | J | D,S | 67 | 7 | 7 | Casing and screen: 2-in. to 94 ft. |
| - 9 | E. Graves | | В | 45 | 2020 | Tci | | 41.3 | 11- 4-55 | | D | 67 | 1 | 7 | |
| -10 | J. F. Johnson | J. F. Johnson, Jr | В | 49.2 | | Tci | | | | М | D | 67 | 0 | 23 | |
| -11 | W. N. Graves | John and Jack White . | D | 112 | 2 | Tei | | | | J | D | *** | 0 | 7 | Casing: 2-in. to 107 ft.; 2-in. screen from 107 to 112 ft. |
| -12 | E. D. Trawick | | В | 46, 1 | 8 | Tci | 212 | 40. 1 | 8-24-56 | М | D | 69 | 0 | 10 | |
| -13 | J. S. Graves | J. S. Graves | מ | 58 | | Tci | | 50 | 1951 | J | D,S | • • | 2 | 6 | Deepened from 45 to 58 ft. |
| -14 | Ernest Graves | Palmer Green | D | 65 | 2 | Tci | **** | 41 | 1955 | J | D | | 2 | 5 | |
| -15 | J. W. Graves | | В | 47.7 | 8 | Tci | 200 | 43 | 1955 | М | D | 69 | 0 | 9 | |
| -16 | do | Ervin Carnley | D | 62 | 2 | Tci | 203 | | | Су | D | 70 | 0 | 6 | |
| -17 | Dewey Harrell | | | 70 | 2 | Tci | | 48 | 1954 | J | D | | 7 | 7 | Test hole drilled to 100 ft. |
| -18 | Carl Chavers | Etheridge Plumbing Co. | D | 50 | 2 | Tci | 215 | | | J | D | ** | 7 | 6 | Casing: 2-in. to 45 ft.; 2-in. screen from 45 to 50 ft. See driller's log. |
| -19 | F. M. Chavers | do | D | 270 | 2 | Tmu | 231 | | | Су | D,S | | 7 | 15 | Casing and screen: 2-in. to 270 ft. See driller's log. |
| -20 | Louis Byrd | O. W. Findley | D | 58 | 2 | Tci | | 41 | 1950 | J | D,S | | 7 | 7 | |
| -21 | H. H. Hutcheraft | H. H. Hutchcraft | В | 40 | 2 | Tci | 205 | 20 | 1949 | J | D | *** | 7 | 8 | Casing and screen: 2-in, to 40 ft. |
| -22 | Ervin Carnley | Ervin Carnley | D | 85 | 2 | Tci | 217 | 50 | 1941 | Су | D,S | 69 | 2 | 8 | Casing: 2-in. to 80 ft.; 2-in. screen from 80 to 85 ft. |
| -23 | B. J. Blackmon | Windham Pump Co | D | 75 | 2 | Tci | 211 | 40 | 1955 | J | D,S | •7•1 | 0 | 6 | |
| -24 | B. S. Blackmon | Ervin Carnley | D | 74. 5 | 2 | Tci | 229 | 54. 1 | 8-24-55 | С | D | 69 | 2 | 10 | Casing: 2-in. to 70 ft.; 2-in. screen from 70 to 74.5 ft. See driller's log. |

| N-25 | William Blackmon | Etheridge Plumbing Co. | ם | 217 | 2 | Tmu | 260 | | | Су | D, S | | 0 | 9 | Casing: 2-in. to 212 ft.; 2-in. screen from 212 to 217 ft. See driller's log. |
|------|------------------|-------------------------------|---|------|----|-----|-----|------|----------|----|------|-----|---|----|---|
| N-26 | J. W. Phillips | Ervin Carnley | D | 88 | 2 | Tcl | | | | | D | ١ | 1 | 7 | Deepened from 66 to 88 ft. |
| N-27 | Robert Steele | do | ם | 100 | ۱ | Tci | | | | Су | N | | 4 | 42 | |
| N-28 | Annie Watson | Etheridge Plumbing Co. | D | 131 | 2 | Tci | 242 | 110 | 1952 | Су | D,S | 68 | 8 | 9 | |
| N-29 | W. J. Blackmon | W. J. Blackmon | D | 59 | 2 | Tcl | 226 | 41 | 1948 | J | D, S | | 4 | 7 | Casing: 2-in. to 54 ft.; 2-in. screen from 54 to 59 ft. |
| N-30 | Roy Smith | Etheridge Plumbing Co. | D | 80 | | Tci | 227 | | ļ | Су | D | | 0 | 4 | Casing: 2-in. to 75 ft.; 2-in. screen from 75 to 80 ft. See driller's log. |
| N-31 | Columbus Spear | H. Bates and C. O'Farrell. | D | 82 | 2 | Tei | 236 | 42 | 1955 | J | D. | ٠٠. | 2 | 5 | |
| N-32 | Vera Howell | Howell | | 20 | | Tci | | 18.3 | 11- 2-55 | P | D | | 1 | 9 | |
| N-33 | Calvin Byrd | Robbins-McGowln | D | 81 | 2 | Tci | 218 | 38 | 1955 | J | D | ٠٠. | 1 | 6 | Casing: 2-in. to 76 ft.; 2-in. screen from 76 to 81 ft. |
| N-34 | Colon Carnley | Ervin Carnley | D | 48 | 2 | Tel | | 30 | 1952 | Су | D | 68 | 1 | 6 | |
| N-35 | Malcolm Brantley | Etheridge Plumbing Co. | ם | 55 | 2 | Tci | 216 | | | J | D, 8 | | 1 | 10 | Casing and screen: 2-in, to 55 ft. |
| N-36 | Morey Brantley | | В | 35 | | Tci | | 22 | 1947 | J | D | 70 | 4 | 8 | |
| N-37 | | | | | 2 | Tci | 240 | | | J | D | | | | |
| พ-38 | P. H. Jernigan | O. W. Findley | D | 84 | 2 | Tci | 256 | 69 | 1955 | J | D | | 0 | 8 | Casing: 2-in. to 79 ft.; 2-in. screen from 79 to 84 ft. |
| N-39 | J. E. Chavers | | В | 72.0 | 8 | Tci | 252 | 64.9 | 3-30-55 | M | D | 68 | 1 | 6 | |
| 0- 1 | H. R. Ogletree | O. W. Findley | D | 73 | 2 | Tmu | 187 | | ····· | J | D,S | | 6 | 18 | Casing: 2-in. to 67 ft.; 2-in. screen from 67 to 73 ft. |
| 0- 2 | Alice Franklin | do | D | 100 | 2 | Tmu | | 32 | 1955 | Су | D | 68 | 7 | 10 | |
| 0- 3 | Mary Salter | | D | 85 | | Tmu | 238 | | | Cy | D | | | | |
| 0- 4 | S. D. Hodge | | | 70 | | Tmu | 217 | | | P | D | ٠ | 0 | 10 | |
| 0- 5 | J. P. Cheatham | J. P. Cheatham | В | 53.5 | 7 | Tmu | 228 | 31.0 | 3-30-56 | М | D | 68 | | | |
| 0- 6 | J. A. Morris | Albert Beasley | J | 68 | | Tmu | | | | Су | D | | 1 | 6 | |
| 0- 7 | H. M. Smith | | D | | 2 | Tmu | 216 | 20 | | J | D | | | | Casing and screen: 2-in. to 70 ft. |
| 0-8 | Ezriah Salter | O. W. Findley | D | 45 | 2 | Tmu | 209 | | | 1 | D,S | | | | Casing: 2-in. to 40 ft.; 2-in. screen from 40 to 45 ft. |
| 0- 9 | F. L. Milligan | Albert Beasley | D | 70 | 2 | Tmu | 203 | | | J | D | | | | |
| 0-10 | Ellen Nichols | C. O'Farrell | D | 18.7 | 14 | Tmu | 182 | 10.7 | 3-21-56 | P | D | 65 | ۱ | 9 | |

| | | | | | = | | | | r level | | | Field | deter | ninations | |
|-------|--------------------|---------------------------|------|-------------------------|---------------------------|----------------------------|------------------------------------|--|--------------------------|----------------|--------------|----------------------|------------------------|---|--|
| Well | Owner | Driller | Type | Depth of well (feet) | Diameter of well (inches) | Wator-bearing unit | Attitude of land surface (feet) | Above (+) or below land surface (feet) | Date of meas- urement | Method of 11ft | Use of water | Temperature (* F) | Chloride (C1) (ppm) | Hardness as CaCO ₃ (ppm) | Remarks |
| 0-11 | White Horse Inn | Marcus Blair | D | 146 | 4 | Tmu | 180 | 40 | 1954 | J | D | | | 111 | Casing: 4-in. to 143 ft.; 3-in. slotted casing from 143 to 146 ft. |
| 0-12 | | | | 17. 4 | 14 | Tmu | 210 | 8.9 | 3-19-56 | P | ם | | | | |
| 0-13 | J. L. Roberts | Etheridge Flumbing Co. | D | 342 | 4 | Tc Tb Tg Tm To | 205 | 58.4 | 4-15-57 | | D | | | | Casing: 4-in. to 193 ft.; none below. |
| 0-14 | George W. Weaver . | O. W. Findley | ם | 62 | 2 | Tmu | | 32 | 1954 | J | D, S | | | 9 | Casing and screen: 2-in. to 62 ft. |
| 0-15 | E. Smith | Marcus Blair | D | 340 | 4,3 | Tg Tm To | 183 | 30 | 1954 | J | D | •• | 2 | 124 | |
| 0-16 | R. B. Hawk | Gray Artesian Well Co. | D | 179.0 | 4 | Tmu | 213 | 81.5 | 8- 8-55 | | N | | 0 | 80 | Casing: 4-in. to 185 ft.; 4-in. screen from 185 to 205 ft. See driller's log for test well drilled to 212 ft. Well abandoned 8-8-55. |
| •0-17 | do | Marcus Blair | D | 246 | 4 | Tc | 226 | 91.3 | 8- 8-55 | т | D | 71 | | | Casing: 4-in. to 225 ft.; none below. See driller's log. |
| 0-18 | H. E. Long | do | D | 430 | 4,3 | Tg Tm To | 241 | | | т | D,S | 71 | | 164 | Casing: 4-in. to 234 ft.; 3-in. from 229 to 340 ft.; none below. See driller's log. |
| 0-19 | A. J. Singleton | Fred Dansler | D | 19. 5 | 2 | Qal | 137 | 11.7 | 5-13-55 | J | D, S | 67 | | 6 | |
| O-20 | H. W. Clayton | | Dr | 24 | 14 | Tmu | | | | С | D,S | | 0 | 6 | Casing: 14-in. to 21.5 ft.; 14-in. screen from 21.5 to 24 ft. |
| *0-21 | J. M. Brewer | O. W. Findley | D | 65 | 2 | Tmu | 110 | + 3.6 | 10-31-56 | F | D | 68 | | | Casing: 2-in. to 62 ft.; 2-in. screen from 62 to 65 ft. Measured flow 0.4 gpm on 1-4-55. |
| 0-22 | E. D. Chavers | Robbins-McGowin | Œ | 81 | 2 | Tmu | | 12 | 1-26-55 | | D,S | | 1 | 84 | Casing and screen: 2-in. to 81 ft. |
| 0-23 | Amos D. Wilson | do | D | 28 | 2 | Tmu | 138 | 7.9 | 5-13-55 | С | D,S | 66 | 8 | 9 | Casing: 2-in. to 18 ft.; 2-in. screen from 18 to 28 ft. |
| 0-24 | Lewis C. Barnett | O. W. Findley | D | 101 | 7,2 | Tmu | | 40 | 1952 | Су | D | •• | 1 | 22 | Casing: 2-in. to 95 ft.; 2-in. screen from 95 to 101 ft. |
| 0-25 | James H. Martin | | Du | 27.0 | 36 | Tmu | 150 | 8.7 | 5-13-55 | м | N | | | | |
| 0-26 | do | James H. Martin | Dr | 28 | 14 | Tmu | | 18 | 1952 | С | D,S | | 1 | 5 | Casing and screen: 1½-in. to 28 ft. |

| 1 | | | 1 1 | | 1 | | 1 | 1 | 1 | 1 | 1 1 | 1 | | 1 | 1 |
|------|------------------|-----------------------|-----|------|-------|-----|-----|-------|---------|----|-----|----|-------|-----|---|
| 0-27 | S. R. McGugan | Elbert McGugan | В | | 14 | Tmu | | | | | D,S | 67 | 0 | 22 | |
| 0-28 | Lon McGaha | O. W. Findley | D | 100 | 2 | Tmu | | 87 | 1951 | J | D | | 2 | 15 | Casing and screen: 2-in. to 100 ft. |
| O-29 | Sabbie Singleton | A. J. Singleton | В | 13.0 | 14 | Tmu | 137 | 7.4 | 6- 9-55 | P | N | | • • • | | |
| O-30 | Mary Johnson | | D | 100 | 2 | Tmu | | | | J | D,S | | 1 | 92 | Do. |
| 0-31 | | | *** | 12.7 | 14 | Qal | 117 | 4.9 | 6- 9-55 | P | N | | | | |
| 0-32 | | | В | 21.0 | 7 | Qal | 115 | 14. 1 | 6- 9-55 | М | D | 69 | 2 | 8 | |
| 0-33 | J. Blackmon | | D | 25 | 21/2 | Qal | | | | P | D,S | | | | |
| 0-34 | do | | | 30 | 2 1 | Qal | | | | P | D | | | | |
| 0-35 | T. Drew McCall | | В | 40.2 | 7 | Tmu | 170 | 37.2 | 6-13-55 | М | D,S | 68 | 1 | 6 | |
| 0-36 | J. C. Cates | | В | 41.1 | 7 | Tmu | 167 | 39.6 | 6-13-55 | М | N | | | | |
| 0-37 | Willie Pugh | J. C. Cates | Dr | 18.3 | 14 | Tmu | 125 | 8.7 | 6-13-55 | P | D,S | 66 | 2 | 6 | |
| 0-38 | Carl Smith | Ernest James | В | 51.4 | 7 | Tmu | 172 | 47.0 | 6-13-55 | м | D | 68 | 1 | 8 | |
| O-39 | J. C. Myrick | O. W. Findley | D | 58 | 2 | Tmu | | 40 | 1954 | Су | D | 68 | 0 | 5 | Casing: 2-in. to 52 ft.; 2-in. screen from 52 to 58 ft. |
| 0-40 | W. G. Graves | | Dr | | 14 | Tmu | | | | | D | | 1 | 6 | |
| 0-41 | F. Downing | E. Steele | Dr | 20 | 14 | Tmu | | | | С | D | | 0 | 9 | Casing: 14-in. to 17 ft.; 14-in. screen from 17 to 20 ft. |
| 0-42 | D. B. Carter | C. O'Farrell | D | 33 | 6, 14 | Tmu | 151 | 20 | 1946 | P | D | 67 | 2 | 5 | 2011. |
| O-43 | Paul Barrow | | В | 28.9 | 7 | Tmu | 151 | 22.4 | 5-13-55 | М | D | 66 | 9 | 7 | |
| 0-44 | C. R. Smith | | | | | Tmu | | | | J | D | 69 | 13 | 16 | |
| 0-45 | J. B. C. Smith | Barrentine | D | 65 | 2 | Tmu | | 30 | 1955 | Су | D | | 1 | 8 | Casing: 2-in. to 60 ft.; 2-in. screen from 60 to 65 ft. |
| 0-46 | O. K. Davis | O. W. Findley | Ď | 45 | 2 | Tmu | 135 | 11.8 | 5-12-55 | С | D,S | | 1 | 9 | |
| 0-47 | Ila Quinn | George Rodgers | В | 28.6 | 6, 14 | Qt | 135 | 14.3 | 5-12-55 | P | D | 68 | 2 | 8 | |
| 0-48 | Marcus Jordon | Marcus Blair | D | 194 | 4 | Tc | | 51.0 | 4-10-57 | т | D | 68 | 0 | 142 | Casing: 4-in. to 190 ft.; none below. |
| 0-49 | | | | | 2 | Tmu | | | | Су | D | | 1 | 9 | |
| O-50 | Leon F. Smith | O. W. Findley | D | 72 | 2 | Tmu | | 38 | 1949 | J | D | | 1 | 10 | Casing and screen: 2-in. to 72 ft. Water contains iron. |
| 0-51 | E. E. Smith | Jack and John White . | D | 72 | 2 | Tmu | | 40 | 1940 | J | D,S | | 2 | 9 | Casing: 2-in. to 66 ft.; 2-in. screen from 66 to 72 ft. |
| O-52 | Claude Smith | O. W. Findley | D | 70 | 2 | Tmu | | 18 | 1954 | J | D,S | | 2 | 8 | Casing: 2-in, to 64 ft.; 2-in, screen from 64 to 70 ft. |
| O-53 | W. A. Lovelace | Marcus Blair | D | 256 | 4 | Tc | 200 | 73 | 1953 | Су | D | | 0 | 114 | Casing: 4-in. to 242 ft.; none below. |

| ГТ | | | | | _ | | | Wate | r level | | | Field | deter | ninations | |
|------|----------------------------------|-------------------------------|------|----------------------|---------------------------|-----------------------|------------------------------------|--|--------------------------|----------------|--------------|----------------------|------------------------|---|--|
| Well | Owner | Driller | Туре | Depth of well (feet) | Diameter of well (inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of meas- urement | Method of 11ft | Use of water | Temperature (* F) | Chloride (CI) (ppm) | Hardness as CaCO ₃ (ppm) | Remarks |
| 0-54 | Bert Rodgers | Jack and John White . | J | 79 | 2 | Tmu | 205 | 44 | 1954 | J | D | | | | |
| O-55 | North Brewton Baptist Church. | Flo Drilling Co | D | 240 | 4 | Tc | 200 | 75.0 | 12- 6-56 | Су | מ | 67 | 11 | 128 | Casing: 4-in. to 203 ft.; none below. See driller's log. |
| O-56 | Robert W. Weaver . | Robbins-McGowin | Ф | 115 | 2 | Tmu | | | | J | D,S | ٠, | | | Casing: 2-in. to 110 ft.; 2-in. screen from 110 to 115 ft. |
| O-57 | do | do | D | 90 | 2 | Tmu | | 42 | 1950 | J | D | 68 | 7 | 8 | |
| O-58 | J. L. Hinson | | D | | 2 | Tmu | | | | J | ם | | 0 | 5 | |
| O-59 | R. B. Pittman | Wooten | σ | 212 | 21 | Tc | 194 | 67.2 | 5-15-57 | | N | •• | | | Observation well. Casing: 2½-in. to 207 ft.; none below. |
| 0-60 | T. M. Mason | | | 60.2 | 4 | Tmu | 191 | | | | N | | | | |
| 0-61 | Claude Kent | H. Bates and C. O'Farrell. | D | 128 | 2 | Tmu | | 22 | 1956 | J | D | | | | Casing: 2-in. to 123 ft.; 2-in. screen from 123 to 128 ft. |
| 0-62 | A. A. Waters | A. A. Waters | D | 22.8 | 14 | Tmu | 187 | 16.3 | 3-16-56 | P | D,S | 67 | 25 | 67 | |
| 0-63 | Sam Parker | Jack and John White . | D | 101 | 2 | Tmu | | 71 | 1956 | J | s | | | | Casing: 2-in. to 96 ft.; 2-in. screen from 96 to 101 |
| 0-64 | A. B. Crook | C. O'Farrell | В | 33.0 | 8 | Tmu | 209 | 25.8 | 6-16-55 | м | D,S | 68 | 14 | 29 | ft. |
| O-65 | Earl Moran | | В | 34.9 | 7 | Tmu | 205 | 26.7 | 6-16-55 | м | N | 68 | 47 | 14 | |
| O-66 | T. E. Watson | C. O'Farrell | В | 26.3 | 8 | Tmu | 195 | 16. 2 | 6-16-55 | P | מ | | | | |
| 0-67 | T. E. Watson | O. W. Findley | D | 94 | 2 1 | Tmu | | 70 | 1953 | J | D,S | | 6 | 48 | Casing: 2½-in. to 91.5 ft.; 2-in. screen from 91.5 to 94 ft. |
| 0-68 | do | C. O'Farrell | В | 25 | 2 | Qt | 188 | 10.6 | 6-16-55 | С | s | | 6 | 8 | |
| O-69 | Cleve Waters | Cleve Waters | D | 27 | 2 | Qt | | 17 | 1954 | J | D,S | 66 | 11 | 11 | Casing: 2-in. to 22 ft.; 2-in. screen from 22 to 27 ft. |
| 0-70 | T. E. Watson | C. O'Farrell | в | 15.3 | 8, 1 1 | Qt | 172 | 5. 1 | 6-16-55 | P | D | 69 | 23 | 14 | |
| 0-71 | Marcus Jordan | Etheridge Plumbing Co. | D | 156 | 2 | Tmu | 174 | | | J | D, 8 | | 11 | 41 | See driller's log. |
| 0-72 | Sam Hart | | В | | 7 | Qt | | 26.6 | 3-16-56 | м | D | | | | |
| 0-73 | T. R. Miller Co | | D | 330.0 | 21 | Tm To | 117 | + 18.8 | 6-23-55 | F | N | 71 | 6 | 147 | Casing: 2½-in. to 260 ft.; none below. Measured flow 6.6 gpm on 6-22-55. Electric log in files of U.S. Geol. Survey. |

| 0-74 | Virgil Spivey | H. Bates and C. O'Farrell. | D | 57 | 2 | Tmu | | 6 | 1956 | J | D | | | | Casing: 2-in. to 52 ft.; 2-in. screen from 52 to 57 ft. |
|-------|-----------------------------|-------------------------------|-------|------|------|--|-----|-------|---------|----|-----|-------|-------|-----|--|
| 0-75 | U.S. Experiment Station. | Marcus Blair | D | 400 | 3 | Tg Tm To | 173 | | | J | D,S | | •(14) | | Casing: 3-in. to 310 ft.; none below. |
| 0-76 | C. O. Waters | Flo Drilling Co | D | 183 | 4 | Tc | 175 | 48.4 | 1- 5-57 | J | D,S | 69 | 11 | 176 | Casing: 4-in. to 180 ft.; none below. Drawdown 7.6 ft. after 4 hours pumping 20 gpm on 1-5-57. See driller's log. |
| 0-77 | O. M. Gordon | | D | 690 | 4 | | 152 | | | | N | | | | |
| 0-78 | Arthur Waterman | Wooten | D | 219 | | Tc | 174 | 50 | 1928 | Су | D | | 0 | 112 | |
| O-79 | Oscar Skinner | Marcus Blair | D | 600 | 4 | Tg Tm To Ty Tmb Tgo | 165 | 45.8 | 5-25-55 | J | D | 74 | 1 | 150 | Casing: 4-in. to 320 ft.; none below. Electric log in files of U.S. Geol. Survey. |
| 0-80 | Linn Rodrick | C. O'Farrell | В | 23.4 | 7 | Qt | 175 | 19.8 | 5-12-55 | м | D | 67 | 13 | 22 | |
| 0-81 | R. T. Weaver | | D | 75 | 2 | Tmu | | | | Су | D | 68 | 0 | 5 | |
| O-82 | S. L. Smith | Etheridge Plumbing Co. | D | 163 | 2 | Tmu | 162 | 100 | 1955 | J | D | • • | 0 | 6 | See driller's log. |
| O-83 | L. B. Robinson | | *::*: | 70 | 2 | Tmu | 122 | | | Су | D | 65 | 0 | 88 | |
| 0-84 | do | Jack and John White | J | 50 | 2 | Tmu | 118 | 15 | 1947 | Су | D,S | | 2 | 8 | |
| *O-85 | do | Marcus Blair | D | 700 | 4,2 | Tg Tm To Ty Tmb Tgo Tl | 135 | + 9.5 | 1-25-55 | F | D,S | 75 | | | Caning: 4-in. to 323 ft.; not cased from 323 to 511 ft.; 2-in. from 511 to 700 ft.; alotted from 657 to 679 ft. Measured flow 25.0 gpm on 1-28-55. Electric log in files of U.S. Geol. Survey. |
| O-86 | Hunter Sherrer | do | D | 650 | 4,2 | Tg Tm To Ty Tmb Tgo Tl | 127 | | | F | D | 75 | 14 | 142 | Casing: 4-in. to 300 ft.; notcased from 300 to 460 ft.; 2-in. from 460 to 629 ft.; alotted casing from 629 to 650 ft. Estimated flow 60 gpm. See driller's log. |
| 0-87 | C. C. Huxford | | •71•7 | | 2 | Tmu | 151 | | | J | D | 10000 | 0 | 6 | |
| O-88 | D. S. Robertson | O. W. Findley | J | 67 | 2 | Tmu | 163 | | | J | D | | 2 | 8 | |
| O-89 | D. P. Liles | Flo Drilling Co | D | 103 | 2 | Tmu | 206 | | | P | D | 0.00 | ••• | | Casing: 2-in. to 98 ft.; 2-in. screen from 98 to 103 ft. See driller's log of test hole drilled to 108 ft. |
| O-90 | James Bennett | H. Bates | D | 117 | 2 | Tmu | | | | Су | D | :•:• | | | Casing: 2-in. to 112 ft.; 2-in. screen from 112 to 117 ft. |
| O-91 | Noah Long | | J | 91 | 21/2 | Tmu | | 54 | 1956 | Су | D,S | | 7 | 12 | |

| | | | | | | | Г | Wa | ter level | | | Field | detern | inations | |
|-------|---------------------|---------------------------|------|-------------------------|---------------------------|-----------------------|------------------------------------|--|--------------------------|----------------|--------------|----------------------|------------------------|-------------------------------|--|
| Well | Owner | Driller | Туре | Depth of well (feet) | Diameter of well (inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of meas- urement | Method of 11ft | Use of water | Temperature (* F) | Chloride (CI) (ppm) | Hardness as CaCO3 (ppm) | Remarks |
| O-92 | Sam Cunningham | Flo Drilling Co | D | 63 | 2 | Tei (?) | 182 | | | J | D,S | | 11 | 60 | |
| O-93 | Flourney Lovelace . | do | D | 400.0 | 4 | Tg Tm To | 131 | 16.2 | 12-14-56 | J | D | | 11 | 146 | Casing: 4-in. to 333 ft.; none below. See driller's log. |
| 0-94 | | do | D | 133 | | Tmu | | | | | D | | | | |
| O-95 | City of Brewton | Layne-Central Co | D | 661 | 16, 10 | TI | 151 | 22.5 | 2- 3-57 | т | P | •• | 2 | 110 | Owner's well 4. Casing: 16-in. to 512 ft.; 10-in. from 452 to 517 ft., 537 to 560 ft., and 590 to 614 ft.; 10-in. screen from 517 to 537 ft., 550 to 590 ft., and 641 to 661 ft. Length of air line is 228 ft. Reported yield 615 gm. See driller's log of test well drilled to a depth of 696 ft. |
| 0-96 | Pure Creamery | | D | 500 | | | 125 | 0 | 11- 1-54 | т | Ind | | | | |
| 0-97 | do | | D | 622.0 | 4 | т | 125 | + 4.6 | 1- 3-55 | F | N | | 0 | 108 | Casing: 4-in. to 602 ft.; none below. Measured flow 4.7 gpm on 11-1-54. Electric log in files of U.S. Geol. Survey. |
| 0-98 | T. R. Miller Co | | | 17.2 | 14 | Tmu | 163 | 10.9 | 6-20-55 | P | s | 67 | 16 | 14 | |
| 0-99 | Fred James | Fred James | D | 36 | 2 | Tmu | | 18 | 1955 | | D,S | | 1 | 6 | |
| 0-100 | do | C. O'Farrell | В | 25.8 | 7 | Tmu | 193 | 20. 5 | 6-20-55 | м | N | | | | |
| 0-101 | C. L. Dolohite | Flo Drilling Co | Ф | 53 | 2 | Tmu | 207 | 35 | 1956 | | D | | ٠٠. | | Casing: 2-in. to 48 ft.; 2-in. screen from 48 to 53 ft. Test hole drilled to depth of 191 ft. |
| O-102 | James Lanier | C. O'Farrell | В | 16.7 | 8 | Tmu | 218 | 8. 1 | 6-20-55 | С | D,S | | 8 | 5 | |
| 0-103 | Willie J. Andrews | W. J. Andrews | В | 25 | 14 | Tmu | | 20 | 1952 | | D | 70 | 6 | 25 | |
| O-104 | H. E. C. Barnett | Jessie Raines | D | 50 | 2 | Tmu | | 32 | 1951 | 3 | D,S | ٠. | 1 | 6 | Casing: 2-in. to 44 ft.; 2-in. screen from 44 to 50 ft. |
| 0-105 | Isaac House | J. O. O'Farrell | В | 30.0 | 7 | Tmu | 237 | 16.4 | 6-23-55 | P | D | •• | | | See driller's log of test hole drilled to depth of 250 ft. |
| O-106 | do | | D | 85.7 | 2 | Tmu | 237 | 74.8 | 6-23-55 | | N | | ١ | | |
| 0-107 | Sam Johns | Etheridge Plumbing Co. | D | 160 | | Tmu | 237 | | | Су | D | | 4 | 24 | |

| 1 1 | | | 1 1 | | | 1 1 | | ı | 1 | | 1 | ı | | 1 | 1 |
|--------|------------------------|--------------------|-----|-------|------|--|-----|--------|----------|----|-----|----|-----|-----|--|
| 0-108 | Ala. Div. of Forestry. | | Д | 560 | 2, 1 | Tg Tm To | 256 | 195 | 1955 | Су | D | 59 | 2 | 156 | |
| 0-109 | Archie Hale | H. Bates | D | 53 | 2 | Tmu | | 31 | 1952 | Су | D | | | | |
| •0-110 | Collins Johnson | Etheridge Plumbing | D | 160 | 2 | Tmu | 193 | 70 | 1955 | Су | D | | | | See driller's log. |
| 0-111 | T. R. Miller Co | Marcus Blair | ם | 650 | 4 | Tg Tm To Ty Tmb Tgo Tl | 86 | | | F | Ind | | | | Casing: 4-in. to 263 ft.; none below. Measured flow 205 gpm on 2-22-57. See driller's log. |
| 0-112 | do | Wooten | D | | 4 | | 81 | | | F | Ind | 71 | 0 | 122 | Measured flow 2.6 gpm on 10-22-54. |
| 0-113 | do | do | D | | 4 | | 81 | | | F | N | 74 | 0 | 28 | Measured flow 1.8 gpm on 10-27-54. |
| 0-114 | do | do | D | | 4 | | 81 | + 3.0 | 10-25-54 | F | N | 70 | 0 | 82 | Flow less than 1 gpm on 10-27-54. |
| 0-115 | do | | Dr | 8 | 2 | Qal | 83 | 2 | 1947 | | D | | | | |
| 0-116 | do | | D | | | | 72 | + 18.4 | 1-15-55 | F | N | 70 | 0 | 112 | Measured flow 6, 5 gpm on 10-26-54. |
| 0-117 | do | | D | | | | 76 | | | F | N | 70 | 0 | 116 | Measured flow 1.9 gpm on 10-26-54. |
| 0-118 | Berthea McCaskill . | Joe McCaskill | D | 100 | 1 1 | Tmu | 80 | + 3.2 | 1-15-55 | F | D | 68 | 0 | 14 | Measured flow 1.0 gpm on 1-15-55. |
| O-119 | Clarence Harvey | | | | 4 | | 79 | | | F | D | | 0 | 14 | Measured flow 4.3 gpm on 11-3-54. |
| O-120 | T. R. Miller Co | Wooten | D | 700 | 4 | | 80 | | | F | Ind | 75 | • • | | |
| O-121 | do | do | ם | 700 | 4 | } | 80 | | | F | Ind | 75 | | | |
| O-122 | do | do | D | 700 | 4 | Tm To Ty Tmb Tgo Tl | 80 | | | F | Ind | 75 | 0 | 114 | Electric log in files of U.S. Geol. Survey. |
| O-123 | do | | | | • • | | 79 | | | F | | 71 | | | Flow less than 1 gpm on 10-25-54. |
| O-124 | do | | D | 620 | 5 | | 80 | + 29.3 | 4- 4-57 | F | Ind | 76 | | | Measured flow 75.0 gpm on 4-4-57. |
| O-125 | do | | D | 253.5 | 5 | | 80 | + 27.0 | 4- 4-57 | F | Ind | 76 | 0 | 114 | Measured flow 65.0 gpm on 4-4-57. |
| O-126 | Bob Owens | Walter Malone | ם | 190 | 14 | Тъ | 79 | + 9.2 | 1-15-55 | F | D | 68 | 0 | 124 | Measured flow 2.1 gpm on 10-28-54. |
| O-127 | J. B. Byrd | Marcus Blair | р | 675 | 4 | Tg Tm To Ty Tmb Tgo Tl | 79 | + 46.2 | 1952 | F | Ind | 70 | ••• | | Casing: 4-in. to 280 ft.; none below. Reported flow 250 gpm. |
| 0-128 | C. B. Garrett | Walter Malone | D | | 11 | ا ا | 76 | | l | F | D | ۱ | 0 | 126 | Measured flow 1.0 gpm on 10-25-54. |

| | | | | | _ | | | Wat | er level | | | Field | determ | inations | |
|--------|---------------------|---------------------------|------|-------------------------|---------------------------|--|------------------------------------|--|--------------------------|----------------|--------------|----------------------|------------------------|---|---|
| Well | Owner | Driller | Туре | Depth of well (feet) | Diameter of well (inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of meas- urement | Method of 11ft | Use of water | Temperature (* F) | Chloride (CI) (ppm) | Hardness as CaCO ₃ (ppm) | Remarks |
| *O-129 | Brewton Iron Works | Etheridge Plumbing Co. | D | 233 | 4 | Tc Tb | 79 | + 7.1 | 5- 2-55 | F | Ind | 68 | | | Casing: 4-in. to 138 ft.; none below. Measured flow 6.0 gpm on 5-2-55. See driller's log. |
| 0-130 | Robbins-McGowin | Morris Watson |] , | 190 | 21 | Тъ | 79 | + 4.7 | 1-14-54 | P | N | 70 | 0 | 126 | Measured flow 1.5 gpm on 10-25-54. |
| 0-131 | R. M. Jernigan | | D | | 31 | | 81 | + 15 | 1954 | F | Ind | ١ | 0 | 94 | |
| O-132 | City of Brewton | Marcus Blair | а | 700 | 4 | Tg Tm To Ty Tmb Tgo | 95 | | | F | D | | 14 | 114 | Casing: 4-in. to 300 ft.; none below. |
| 0-133 | J. D. Leigh | | D | 300 | 11 | | | + 14.0 | 12- 8-54 | F | D | 69 | | | Measured flow 2. 2 gpm on 12-8-54. |
| 0-134 | S. F. Parker | | | 63.5 | 11 | Tmu | 90 | + 1.0 | 11- 5-54 | F | N | | | | |
| 0-135 | C. P. Holman | | | | | | 90 | | | F | D | ١ | 0 | 110 | Measured flow 3.2 gpm on 11-3-54. |
| 0-136 | Mattie O'Bannon | Wooten | D | 890 | 4 | | 106 | | | F | | | 0 | 108 | |
| 0-137 | Earl Wilson | do | D | 700 | 3 | | 109 | + 5.3 | 1-15-55 | F | D | 69 | 0 | 102 | Estimated flow 30 gpm on 11-2-54. |
| O-138 | E. L. McMillan | | ם | 559 | 2 | Tg Tm To Ty Tmb Tgo Tl | 113 | + 5.0 | 1-28-55 | F | D | 72 | 2 | 110 | Casing: 2-in. to 305 ft.; none below. Measured flow 6.3 gpm on 1-28-55. Electric log in files of U.S. Geol. Survey. |
| O-139 | Adrian P. Downing . | | D | 900 | | | 118 | + 7.1 | 1-13-55 | F | N | 75 | 0 | 106 | |
| O-140 | City of Brewton | Gray Artesian Well Co. | D | 617.0 | 10 | TI | 118 | + 8 | 1254 | F, T | P | 75 | 11 | 102 | Owner's well 2. Casing: 10-in. to 577 ft.; none below. Measured flow 71.0 gpm on 7-27-55. Electric log in files of U.S. Geol. Survey. |
| *0-141 | do | Galf Oil Co | D | 650 | 6 | т | 90 | + 35.4 | 4- 3-57 | P | P | 75 | | ••• | Owner's well 6. Casing: 6-in. to 650 ft.; perforated from 590 to 620 ft. Measured flow 56.3 gpm on 4-8-37. Electric log of test hole drilled to depth of 1,440 ft. in files of U.S. Geol. Survey. |
| 0-142 | T. Fay | | Д | 476.0 | 21 | | | | 7-20-54 | P | Ind | 75 | 7 | 132 | Measured flow 33.0 gpm on 7-20-54. |
| 0-143 | do | | D | 675 | 4 | ١ | | + 10.2 | 7-20-54 | F | Ind | 74 | 7 | 112 | Measured flow 9. 9 gpm on 7-20-54. |

| 0-144 | do | | D I | 675 | 2 | | | | | F | Ind | 72 | 8 | 126 | Measured flow 1.5 gpm on 7-20-54. |
|--------|---------------------------------------|---|-----|-------|-----------|-----------|-----|--------|----------|------|------|-----|----|-----|--|
| O-145 | Tom and Ed Bridges | Wooten | D | 190 | | тъ | 77 | | | F | D | 69 | | | Measured flow 5.0 gpm on 1-7-57. |
| *0-148 | City of Brewton | A. Kimbrough | D | 940 | 12, 4 | T1 (7) | 77 | + 11.2 | 1-13-55 | F | N | 69 | •• | | Owner's well 1. Casing: 12- and 4-in. to 577 ft. Measured flow 6.1 gpm on 1-13-55. See driller's log. Formerly used as public supply. |
| 0-147 | do | M. H. Holland | D | 596.0 | 6,4 | m | 77 | + 46.0 | 8- 8-55 | F | Ind | 74 | 0 | 92 | Owner's well 3. Casing: 6- and 4-in. to 576 ft.; none below. Measured flow 180.0 gpm on 3-4-57. Electric log in files of U.S. Geol. Survey. |
| O-148 | Sherrer Machine Shop. | | | | 21 | | | + 8.0 | 1-27-55 | F | Ind | 66 | 2 | 130 | |
| O-149 | | | | | 11 | | 77 | + 10.7 | 11-13-55 | F | N | 68 | 0 | 128 | Measured flow 2.5 gpm on 10-27-54. |
| *O-150 | City of Brewton | Layne-Central Co | D | 731 | 16, 10 | n | 155 | 32.1 | 4-25-57 | F, T | P | 76 | | | Owner's well 5. Casing: 18-in. to 598 ft.; 10-in. from 598 to 600 ft., and 850 to 691 ft.; 10-in. acreen from 600 to 650 ft., and 691 to 731 ft. Electric log in files of U.S. Gool. Survey. Measured drawdown 147.5 ft. when pumped 787 gpm for 16.8 hours in April 1957. See driller's log of test hole drilled to depth of 1, 038 ft. |
| 0-151 | Clyde F. O'Bannon, Jr. | Etheridge Flumbing Co. | D | 63 | 2 | Tmu | | | | J | D,S | | 6 | 9 | See driller's log. |
| O-152 | Thomas Lewis | H. Bates | ם | 33 | 2 | Tmu | | | | 1 | D | 69 | 15 | 28 | Measured yield 7.5 gpm on 3-8-57. |
| O-153 | Jack Werline | | D | 100 | 2 | Tmu | | | [| Су | D. | | 0 | 5 | |
| 0-154 | Escambia County Board of Education | • | D | 22.7 | 2 | Tci | 203 | 18.9 | 6-14-55 | P | D, P | 69 | 1 | 7 | |
| O-155 | Susie Preyer | O. W. Findley | D | 40 | 21 | Tmu | | | | C | D | | | | |
| O-156 | Ira Lee Russell | Flo Drilling Co | D | 54 | 2 | Tmu | | | | J | D | | ۱ | | |
| 0-157 | Lillie O'Bannon | O. W. Findley | ם | 53 | 6,2 | Tmu | | | | J | D | | 0 | 6 | |
| O-158 | Escambia County Poor House. | | В | 60 | 8,2 | Tmu | ••• | | | Су | D | • • | 2 | 4 | |
| O-159 | A. Stewart O'Bannon | Etheridge Plumbing Co. | D | 170 | 2 | Tmu | 163 | | | Су | D | | 0 | 32 | See driller's log. |
| O-160 | Jim Gibson | | Dr | 23.6 | 1 | Tmu | 186 | 18.6 | 2- 1-55 | P | N | | | | |
| O-161 | do | Etheridge Plumbing Co. | D | 260 | 2 | Tmu | 186 | 92.0 | 2- 1-55 | J | D, S | | 2 | 86 | Casing: 2-in. to 250 ft.; 2-in. screen from 250 to 260 ft. Electric log in files of U.S. Gool. Survey. See driller's log. |
| *O-162 | Southern Pine Coop. Assoc. | Layne-Central Co | D | 220.0 | 10, 8 | Tmu | 135 | 46 | 451 | т | Ind | | | | Casing: 10-in. to 18 ft.; 8-in. from 18 to 177 ft.; 6-in. screen from 177 to 217 ft.; none below. Reported drawdown 24 ft. after 8 hours pumping 100 gpm on 4-1-51. See driller's log. |
| 0-163 | E. Fuqua | | | | | | 83 | | 11- 2-54 | F | D | | 0 | 108 | Measured flow 2.6 gpm on 11-2-54. |
| Q-164 | J. W. Harris | Wooten | D | 390 | 2 } | | ; | + 12.0 | 1-27-55 | F | Ind | 69 | 2 | 118 | Casing: 24-in. to 80 ft.; none below. Measured flow 10.0 gpm on 1-27-55. |

Table 4.-Records of wells in Escambia County, Ala.-Continued

| | | | | | _ | Γ | <u> </u> | Wa | er level | | | Field | deteri | ninations | |
|--------|--------------------------|------------------|------|-------------------------|---------------------------|-----------------------|------------------------------------|--|--------------------------|----------------|--------------|----------------------|------------------------|-------------------------------|--|
| Well | Owner | Driller | Туре | Depth of well (feet) | Diameter of well (inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of meas- urement | Method of lift | Use of water | Temperature (* F) | Chloride (CI) (ppm) | Hardness as CaCO3 (ppm) | Remarks |
| 0-165 | Lynn Oil Co | | D | | 2 | | 77 | + 20.2 | 1- 4-55 | F | D | 75 | | | Measured flow 6.5 gpm on 11-11-54. |
| O-166 | Howard W. Thomp- son. | Wooten | D | | | | | + 10 | 155 | F | D | •• | | | |
| 0-167 | Ruth Sowell | | | | 11 | | | + 4 | 155 | F | D | 67 | 2 | 76 | |
| O-168 | W. S. Crenshaw | Wooten | D | 435 | 2 | | | + 10 | 155 | F, C | D | | 2 | 118 | Casing; 2-in. to 318 ft.; none below. Supplies several houses. |
| O-169 | Barney Thompson | | | | 11 | | | + 9.0 | 1-31-55 | F | D | 69 | 2 | 114 | Measured flow 2.5 gpm on 1-31-55. |
| 0-170 | Addie McGowin | Wooten | D | 636 | 4 | | 103 | | 11-10-54 | F | D | | 0 | 108 | |
| 0-171 | B. D. Dozier | Wooten | D | 425 | 2 | | 106 | | | | N | • • | | | Formerly flowed. |
| 0-172 | Frank Ashton | do | D | 420 | 3 | | 103 | + 4.5 | 1-13-55 | F | D | 73 | 0 | 110 | Measured flow 1.3 gpm on 11-11-54. |
| 0-173 | Clem Linton | | | | 2 | | 102 | + 5.9 | 11-17-54 | F | s | | 0 | 114 | Flow less than 1 gpm on 11-17-54. |
| *0-174 | City of East Brewton | Layne-Central Co | ם | 709.0 | 10,8, 6 | п | 158 | 31.0 | 5- 6-57 | т | P | 76 | | | Casing: 10-in. to 17 ft.; 8-in. from 17 to 615. 6 ft.; 6-in. from 607. 5 to 618 ft.; and from 638 to 679 ft.; 6-in. screen from 618 to 638 ft., and 679 to 709 ft. Reported drawdown 84 ft. after pumping 388 gpm on 9-22-49. See driller's log of test hole drilled to 711 feet. |
| P- 1 | Bessie Ellis | Robbins-McGowin | D | 68 | 2 | Tmu | | | | J | D | | | | |
| P- 2 | Sam Parker | Wooten | D | 479 | | Tg Tm To | 187 | | | Су | D | 68 | 7 | 122 | Water leaves yellow stain. |
| P- 3 | H. J. McDonald | H. J. McDonald | D | 55 | 2 | Tmu | | 37 | 1949 | С | D,S | | 7 | 6 | |
| P- 4 | John Whitten | Isaac Nearer | D | 56 | 2 | Tmu | 207 | 42 | | J | D | 68 | 7 | 7 | Casing: 2-in. to 51 ft.; 2-in. screen from 51 to 56 ft. |
| P- 5 | H. L. Still | | | 55 | 2 | Tmu | 203 | 41 | 1925 | С | D,8 | | | | |
| P- 6 | G. B. Alford | Isaac Nearer | D | 30 | 14 | Tmu | 180 | 18 | 955 | P | D | | | | Casing: 1½-in. to 25 ft.; 1½-in. screen from 25 to 30 ft. |
| P- 7 | Theodore Redash | Theodore Redash | В | 20.7 | 14 | Qt | 174 | 13.9 | 4- 9-56 | P | D | 68 | 11 | 7 | |
| P- 8 | Phillip Johns | | В | 23 | 11 | Qt | 168 | 17 | 1955 | | D, S | | | | Casing and screen: 1½-in. to 23 ft. |

| P- 9 | W. C. Pugh O. W. Findley | Ð | 80 | В | Tmu | 175 | 10.2 | 4- 9-58 | 3 | D | | | 4.4.4 | |
|------|---------------------------------------|----------|-------|-----|----------------|-----|---------------|---------|------|------|------|------|---------|--|
| P-10 | D. B. Wood D. B. Wood | Dr | 22 | 14 | Qt | | 22.55 | ****** | J | D, S | 44 | | 215 | Casing and screen: 14-in, to 22 ft. |
| P-11 | Tom Smith Isaac Nearer | D | 41 | 2 | Qt | 174 | 23 | 1950 | 3 | D, S | | 11 | 5 | Caming and screen: 2-in, to 41 ft. |
| P-12 | J. W. Worthington . J. W. Worthlugton | в | 18 | 14 | Qt | | 12 | 1939 | ** | D, 5 | 10.5 | 144 | 110 | Casing and screen: 14-in. to 18 ft. |
| P-13 | do | D | 40 | 2 | Qt | | 4.1.4.4 | | J | D, 8 | | | 1.4.4.4 | Casing and screen: 2-in. to 40 ft. |
| P-14 | Joe Johns Joe Johns | D | 28 | 14 | Qt | 162 | 19 | 1054 | | D | 1110 | - 1 | 244 | Casing and screen: 14-in, to 28 ft. |
| P-15 | Ben Worthington Ben Worthington | D | 20 | 14 | Qt | | | | P | D | ++ | | | Casing and screen: 14-in, to 20 ft. |
| P-18 | M. M. Burnham M. M. Burnham | т. | 23.9 | 11 | Qt | 174 | 18, 8 | 4-11-58 | P | D, B | | | | |
| P-17 | C. E. Dawkins C. E. Dawkins | В | 25 | 14 | Qt | | 4 - 4 - 4 - 4 | | P | D | 10 W | | | Casing and screen: 14-in, to 25 ft. |
| P-18 | Jim Lovelace Robbins-McGowin | D | 96 | 2 | Tmu | 163 | 50 | 1955 | J | D | W. | | | Casing and screen: 2-in, to 96 ft |
| P-19 | do Jim Lovelace | В | 44.0 | 8 | Tmu | 163 | 38.1 | 4-12-56 | а. | N | | -50 | Leter | |
| P-20 | Sam Estes | В | 95 | 2 | Tmu | 179 | | | J | D, B | 14.0 | 4.0 | 100 | Casing and screen: 2-in. to 95 it. |
| P-21 | Alphoneo Floyd | В | 40.6 | 8 | Tmu | 183 | 37.4 | 4-12-56 | м | D, 8 | | | 111 | |
| P-22 | Ramsey Evans Barrentine. | a | 42 | 2 | Tmu | 149 | 18 | 1946 | | D | ** | 4. | 200 | Casing: 2-in. to 37 ft.; 2-in. screen from 37 to 42 ft. |
| P-23 | Deway King | | 27.5 | 14 | Qt | 140 | 15.3 | 5-22-56 | P | D, S | 4.6 | 10.0 | | |
| P-24 | Hortense Agerton | 200 | 20.1 | 14 | Qt | 120 | 11.5 | 1-11-57 | P | N | 68 | 7 | и. | ľ |
| P-25 | H. D. Fuqua H. D. Fuqua | В | 19.2 | 14 | Qt | 114 | 8.0 | 5- 3-56 | C | D, S | 87 | 11 | ő | Water leaves yellow stain |
| P-26 | Tillman Daniels | 7.604 | 20.5 | 14 | Qt | 101 | 12. 1 | 5- 1-56 | P | D, S | 66 | 7 | 8 | |
| P-27 | Fred Crawford Fred Crawford | | 30 | 14 | Qt | | | | Су | D, 8 | | | 1.1.1 | Casing and screen: 14-in. to 30 ft. |
| P-28 | do | В | 21.1 | 14 | Qt | 115 | 9.0 | 4-11-56 | P | D | 66 | 11 | 12 | |
| P-29 | J. T. Eddings J. T. Eddings | Dr | 20.0 | 14 | QL | 174 | 5.5 | 4-10-56 | P | N | | 1.1 | 6.6.7 | Casing and screen: 14-in, to 20 ft. |
| P-30 | W. T. Neal Estate | D | 345.0 | 6 | Tg Tm To | *** | + 8.4 | 4- 8-57 | J, F | D | 72 | ** | 344 | Casing: 6-in. to 255 ft.; none below. Measured yield 8.6 gpm on 5-25-58. Electric log in files of U.S. Geol. Survey. |
| P-31 | Robbins-McGowin | D | 60 | 3.5 | Tmu | 184 | 1111 | | 3 | D, S | | | 154 | |
| P-32 | do | D | 112 | 4 | Tg Tm To | 169 | **** | ***** | J | D, S | 100 | 7 | 133 | |
| P-33 | Fred Crawford | Dr | 20,3 | 14 | Qt | | 4, 4 | 4-10-56 | P | D | -33 | 10 | | Casing and screen: 14-in, to 20,3 ft. |
| P-34 | Phillip T. Johns Phillip Johns | B, Dr | 24 | 2 | Qt | 168 | | | ., | D | 250 | 19 | 564 | Casing and screen: 2-in, to 24 ft. |
| P-35 | Ander Coxwell Joe Taylor | | 18.3 | 14 | Qt | 92 | 9, 1 | 5- 1-58 | P | D | 67 | 134 | 144 | Water leaves stain. |
| P-36 | Will Barron | | 15.7 | 11 | Qt | 91 | 7.5 | 5- 1-56 | P | D | 88 | 1 | 10 | |

Table 4.-Records of wells in Escambia County, Ala.-Continued

| | | | | | _ | | | Wat | er level | | | Field | deterr | ninationa | |
|------|---------------------|--------------------|------|-------------------------|------------------------------|-----------------------|------------------------------------|--|--------------------------|----------------|--------------|---------------------|------------------------|---|--|
| Well | Owner | Driller | Type | Depth of well (feet) | Diameter of well (inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of mess- urement | Method of lift | Use of water | Temperature (°F) | Chloride (Cl) (ppm) | Hardness as CacO ₃ (ppm) | Reznarko |
| P-37 | L. P. Thomsen | L. P. Thomsen | Dr | 26.8 | 12 | Qt | 87 | 4. 2 | 5-15-87 | P | D | 67 | 7 | 6 | Observation well. Water leaves stain. |
| P-38 | E. Herrington | Arthur Browder | Dr | 24.7 | 1.2 | Qt | 95 | 13.7 | 5- 1-58 | J | D | 5.50 | 7 | 5 | |
| P-39 | T. R. Miller Co | Survey Drilling Co | D | 400.0 | 4 | Ty Tmb | 91 | +32, 9 | 3~25-55 | F | P | 70 | 9(4) | Tex: | Casing: 4-in. to 295 ft.; none below. Measured flow 50 gpm on 3-25-55. Electric log in files of U.S. Geol. Survey. |
| Q- 1 | | properties and the | Dr | 18.6 | 14 | Qt | 138 | 17.7 | 3-10-53 | 1.0 | н | 2.0 | 4.4 | (a) in e. | |
| Q- 1 | A. F. Holley | Marcus Blair | D | 170 | 4 | Tg Tm To | 127 | 27.4 | 4-12-57 | 1 | D | 70 | 200 | 225 | Casing: 4-in. to 45 ft.; none below. |
| Q- 3 | do | | 1.0 | 21. 1 | 2 | Qt | 127 | 8.1 | 5-15-57 | C | D | 12 | 12 | *** | |
| Q- 4 | 4do | | 100 | 27.7 | 2 | Qt | 126 | 22. 3 | 3- 9-65 | Cy | N | 600 | (a)(a)(| | |
| Q- 5 | John Douglas | Ira Felts | D | 22.4 | 2 | Qt | 129 | 17.3 | 3- 9-55 | P | D | 67 | 9 | 8 | |
| Q- 8 | John W. Hoomes. | John W. Hoomes | Dr | 16.0 | 14 | Qt | 169 | 8.3 | 3-10-55 | P | N | F. E. | 994 | * * * : | |
| Q- 7 | , do | do | Dr | 15.4 | 14 | Qt | 171 | 9.9 | 3-10-55 | P | N | 4.0 | | *** | |
| Q- 8 | E. J. Hoomes | E. J. Hoomes | В | 16.5 | 14 | Qt | 181 | 9.6 | 3- 9-55 | P | D | 1.1 | 3.83 | * * * * | Casing and screen; 14-in. to 18.5 ft. |
| Q- 9 | Mance Cook | ***** | 2.2 | 20.0 | 2 | Qt | 143 | 16. 3 | 2- 9-55 | 5.50 | H | 5.5 | 333 | | |
| Q-10 | Alfred King | L. K. Stone | 150 | 32.6 | 2 | Qt | 134 | 14. 6 | 5-28-56 | P | D, B | 88 | 7 | 5 | |
| Q-11 | Eula Mae Jackson, . | Issac Nearer | D | 21.0 | 12 | Qt | 130 | 9.8 | 5-25-86 | P | D | 66 | ž. | | Casing and screen: 12-in, to 21 ft. |
| Q-12 | Nosh Hicks | do | D | 17. 6 | 14 | Qt | 639 | 7, 5 | 5-25-56 | P | D, B | 66 | 11 | 11 | Casing and screen: 12-in. to 17.5 ft. |
| Q-13 | J. D. Barrow | do | D | 24.7 | 14 | Qt | | 14. 1 | 5-28-56 | P | D | 68 | 7 | 8 | |
| Q-14 | Will Alford | Will Alford | 441 | 15 | 14 | Qt | 6.69 | 5000 | | C | D, 8 | ** | *(*) | *** | Casing and screen: 12-in. to 15 ft. |
| Q-15 | J. T. Alford | | | 17.8 | 14 | Qt | 185 | 6. 1 | 6-15-67 | P | N | 5.50 | 22 | *** | Observation well. |
| Q-16 | James Alford, | James Alford | 990 | 23.2 | 14 | Qt | 185 | 18.7 | 6- 6-56 | P | 8 | 67 | *)* | *** | |
| Q-17 | W. L. Owans | Bud Barlow | 7.5 | 19.6 | 2 | Tmu | 194 | 14.0 | 6-28-56 | P | D | 67 | 11 | 6 | |

| | .nty .wcation. | Marcus Blair | D | 670 | 4 | Tg Tm To Ty Tmb Tgo | 216 | 80 | 1951 | Су | P | | 2 | 149 | Casing: 4-in. to 234 ft.; none below. Supplies school. |
|------|--|-----------------|------|------|----|------------------------------------|-----|-------|-----------|----|------|------|-----|-----|--|
| Q-19 | Cyrus Koon | Issac Nearer | D | 71 | 2 | Tmu | 217 | 55 | 1951 | J | D, 8 | | 11 | 7 | Casing: 2-in. to 88 ft.; 2-in. screen from 66 to 71 ft. |
| Q-20 | E. H. Stone | do | D | 35 | 1 | Tmu | 211 | 24 | 1950 | Су | D | ++ | 11 | 11 | |
| Q-21 | Mary Stone | do | D | 87 | 2 | Tmu | 234 | 75 | 1953 | Су | D, S | 68 | 11 | 4 | |
| Q-22 | Ernest McGowin | do | D | 32,0 | 14 | Tmu | 208 | 23.4 | 6-12-56 | P | D | | 144 | | Casing: 14-in. to 30 ft.; screen from 30 to 32 ft. |
| Q-23 | М. Н. Кооп | do | D | 63 | 2 | Tmu | 202 | 22 | 1950 | J | D,8 | 11 | 7 | 11 | Casing: 2-in. to 59 ft.; 2-in. screen from 59 to 63 ft. |
| 2-24 | A. C. Cook | do | D | 23.4 | 2 | Tmu | 181 | **** | ***** | | D | -88 | 135 | 200 | |
| Q-25 | Ernest McGowin | do | D | 70 | 1 | Tmu | 221 | 50 | 1954 | J | D | i i | 11 | 6 | Casing: 2-in. to 65 ft.; 2-in. screen from 65 to 70 ft. |
| Q-26 | C. M. Stone | L. K. Stone | D | 63.5 | 2 | Tmu | 219 | 53.4 | 8-15-56 | J | D,S | 1.6 | 100 | 111 | |
| 2-27 | A. L. Cook | Isaac Nearer | D | 42 | 2 | Tmu | 205 | 30 | 1956 | Су | D | 69 | 11 | 4 | Casing: 2-in, to 37 ft.; 2-in, screen from 37 to 42 ft. |
| 2-28 | John L. White | L. K. Stone | D | 65 | 2 | Tmu | 219 | 50 | 44 P. Car | J | D, 8 | 100 | 1.3 | 661 | Casing: 2-in. to 58 ft.; 2-in. screen from 58 to 65 ft. |
| 2-29 | A. L. Cook | Isaac Nearer | D | 65 | 1 | Tmu | 228 | 53 | 1956 | Су | D, B | 333 | 11 | 6 | Casing: 2-in. to 80 ft.; 2-in. screen from 80 to 65 ft. |
| -30 | G. D. White | do | D | 65 | 2 | Tmu | 219 | 56 | 1945 | Су | D | 15.2 | 1,1 | | |
| 2-31 | H. H. Findley | do | D | 55 | 2 | Tmu | | 43 | 1951 | J | D | 100 | 7 | 8 | |
| 2-32 | R. M. Cotton | R: M. Cotton | 35,5 | 76 | 2 | Tmu | | 62 | 1950 | Су | D,S | -53 | 4 | T. | Casing: 2-in. to 71 ft.; 2-in. screen from 71 to 76 ft. |
| 5-33 | J. R. Holland | Isaac Nearer | ď | 100 | 2 | Tmu | 234 | 79 | 1954 | J | D, S | 1724 | 11 | 9 | Casing: 2-in, to 95 ft.; 2-in, screen from 95 to 100 ft. |
| -34 | Albert Kirkland | Albert Kirkland | D | 50 | 3 | Tmu | | 36 | 1941 | J | D,S | 30 | 7 | 7 | Casing: 3-in. to 42 ft.; 3-in. screen from 42 to 50 ft. |
| 2-36 | A. C. Worrell | A. C. Worrell | Dr | 23.7 | 14 | Qt | | 15. 6 | 6- 3-58 | P | D,S | 67 | 4 | 12 | |
| 2-36 | Escambia County Board of Education. | Flo Drilling Co | Dr | 38 | 2 | Qt | | | | J | P | 7. | 14 | 444 | Casing: 2-in. to 33 ft.; 2-in. acrees from 33 to 38 ft. Supplies school. |
| 2-37 | Israel Culliver | Luke Fowler | 4. | 36.0 | 2 | Qt | | 20, 3 | 5- 9-58 | P | D | 70 | 4 | | |
| 5-36 | John King , | John King | 12.2 | 24.4 | 14 | Qt | | 14, 0 | 5- 9-58 | P | D | 68 | 12 | | |
| -39 | E. M. Evans | | D | 71 | 2 | Tmu | *** | 40 | 1930 | Су | D | 87 | .7 | 7 | Casing: 2-in. to 88 ft.; 2-in, screen from 68 to 71 ft. |
| 40 | J. T. McGowin | Marcus Blair | D | 97 | 4 | Tc (?) | 176 | 17 | 1948 | J | D,S | ** | 7 | 119 | |

Table 4.-Records of wells in Escambia County, Ala.-Continued

| | | | | | - | | | Wa | er level | | | Field | detern | ninstions | |
|-------|-----------------|--|------|-------------------------|------------------------------|---|------------------------------------|--|--------------------------|----------------|---------------|----------------------|------------------------|-------------------------------|--|
| Weli | Owner | Driller | Type | Depth of well (feet) | Diameter of well (Inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of meas- urement | Method of lift | Use of water | Temperature (* F) | Chloride (Cl) (ppm) | Hardness as CaCO3 (ppm) | Remarks |
| Q-41 | S. R. Evans | ********** | D | 204 | 5 | Tg Tm To | | 21.0 | 5- 9-56 | P | D | 50 | 7 | 153 | |
| *Q-42 | Fletcher Lucas. | ********* | D | 340 | 3 | Tg Tm To Ty Tmb Tgo (?) | *** | 157.5 | | F,C | D, II, Ind | 72 | 9 | 699 | Casing: 3-in. to 138 ft.; none below. Measured flow 3.2 gpm on 4-8-57. Deepened from 138 to 340 ft. Flowed from depth of 138 ft. |
| Q-43 | B. C. Alford | B. C. Alford | Dr | 19.3 | 14 | Qt | | 14, 6 | 5- 9-56 | P | D | 100 | 21 | 4 | |
| Q-44 | A. A. McGowin | Issue Nearer | D | 22,8 | 14 | Qt | | 12, 5 | 5- 9-58 | P | D | 14 | 6 | - | |
| Q-45 | B. M. Stone | Marcus Blair | D | 56 | 2 | Tc (?) | *** | 18 | 1946 | C | D, Ind | 363 | 4 | 121 | Supplies dairy. |
| Q-46 | H. E. Gulsby | , do | D | 160 | 3 | Tg Tm To | 184 | 34 | 155 | 3 | D | 8.5 | 4 | 146 | Casing: 3-in. to 112 ft.; none below. |
| Q 47 | J. L. Johnson | White Bros | D | 109 | 2 | Tb (?) | 155 | 5.1 | 5-10-56 | P | D | 05 | 11 | 5 | |
| Q-48 | Lee Johnson, | do | D | 16. 8 | 2 | Qt | 158 | 5. 5 | 5-10-56 | P | D | 65 | 18 | 10 | |
| Q-49 | Gid White | Fio Drilling Co | D | 173 | 3 | Tg Tm To | 155 | 24, 9 | 2- 1-57 | 3 | D | 70 | 2 | 154 | Casing: 3-in. to 105 ft.; name below. Pumped at 10 gpm. See driller's log. |
| Q-50 | K. Kendall. | W. A. Blair | D | 140 | 3 | Tg Tm To | 157 | 27 | 1954 | 3 | D | c#35 | 4 | 144 | |
| Q-51 | Narvell Alford | do | D | 150 | 2 | Tg Tm To | 152 | 23 | 1954 | 3. | D | 253 | 7 | 145 | Casing: 3-In. to 100 ft,; none below. |
| Q-52 | E. J. Lucus. | E. J. Locus | В | 21.2 | 14 | Qt | | 9.2 | 5-10-58 | P | D, S | 84 | 28 | 19 | |
| Q-53 | Gid Mancil | A TO MAN PORTON TO A PROPERTY OF THE PARTY O | D | 18,4 | 2 | QL | 244 | 10.5 | 5-10-56 | P | D | 65 | 21 | 44 | |
| | 48 + + + + + | Roy Weaver | 2.5 | 63 | 14 | Tc (?) | | 8.0 | 5-25-56 | P | D | 4.4 | 39 | 51 | |

| Q-55 | J. S. Alford. | Marcus Blair. | D | 147.0 | 4 | Tg Tm To | 134 | 14.5 | 3-18-57 | C | D | 1.4. | 7 | 126 | Casing: 4-in. to 89 ft.; none below. |
|------|---------------------|--------------------------|-----|------------|------------|----------------|-----|---------|---------|-----------|------|-------|-----|------|---|
| 0 .0 | Mary E. Roberson . | ******** | 27 | 18.0 | 14 | Qt | | 8.1 | 5-15-57 | P | N | 7.6 | 0.0 | | |
| Q-57 | C. J. Thomas | Isaac Neuro. | D | 20.0 | 14 | Qt | | 8.7 | 6-26-56 | P | D, B | 66 | 11 | 6 | - E' |
| Q-58 | I. G. Cook | | D | 200.0 | 4 | Tg Tm To | 101 | +20.7 | 6- 6-56 | r | N | 68 | 7 | 135 | Casing: 4-in, to 30 ft.; none below. Measured ft-is 31.7 gpm on 4-5-57. Electric log in files of U.S. Geok. Survey. |
| Q-59 | T. R. Miller | | α | 410.0 | 4 | Tmb Tgo | 131 | +20.8 | 8-16-56 | F | s | 72 | 7 | 144 | Cnaing: 4-in. to 338 ft.; none below. Measured flow 15 gpm on 4-8-57. Electric log in files of U.S. Geol. Survey. |
| 9-60 | Harvey Fowler | Isuac Nearer | D | 70 | 2 | Tmu | 122 | 56 | 1948 | Су | D,8 | 1.1. | 7 | p | Casing: 2-in. to 65 ft.; 2-in. screen from 65 to 70 ft. |
| 2-61 | Isaac Nearer | dn | D | 12 | ŧ | Tmu | | 19 | 1955 | P | D, 8 | 67 | 11 | 17 | |
| Q-62 | Clarence McArthur. | , , , , do , , , , , , , | D | 60 - | i.e | Tmu | | 50 | 1948 | Су | D | 69 | 0 | -7 | 1 |
| 2-63 | F. A. Hoomes | ********* | | 90 | | Tmu | 208 | | 7.513.1 | | D, B | | 2 | - 1 | |
| 2-64 | George Wiggins | Isuac Nearer | D | 93 | 2 | Tmu | 218 | 77 | 1950 | Су | D, S | 88 | 241 | 33,6 | Casing: 2-in, to 88 ft.; 2-in. com from 88 to 93 ft. See driller's log. Water leaves stain. |
| Q-85 | David Miller + + + | | D | 160 (?) | (4) | Tg Tm To | 104 | **** | 1958 | 830 34 | D | * * . | ** | 11.1 | Electric log in files of U.2. Geol. Survey. |
| 2-66 | R. L. Bracken | ******* | D | 80 | 2 | Tmu | 188 | * * * * | | Cy | D | 9.00 | 0 | .7 | |
| 3-67 | Charles Murphy | Issac Nearer | D | 70 | 2.7 | Tmu | 195 | 58 | 1946 | Cy | D | 89 | 2 | 8 | |
| Q-68 | Elam Baptlet Church | | +40 | 80 | 2 | Tmu | 192 | 70 | | J | D | | 0 | 8 | |
| Q-69 | C. C. Herrington | Isanc Nearer | D | 95 | 2 | Tmu | 217 | 55 | 1945 | Су | D | 68 | 0 | 9 | |
| Q-70 | E. M. Herrington | ********** | D | 70 | 200 | Tmu | 225 | **** | | Cy | D | * * . | 0 | 8 | |
| Q-71 | A. C. Pittman | Isaac Nearer | D | 812 | 2 | Tmu | 207 | | | Cy | D, 8 | 11 | 0 | В | Despensed from 75 to 95 ft. |
| Q-72 | Horace Murphy | G. W. Hoomes | D | 95 | | Tmu | 225 | 8.9 | 1953 | Су | D, S | > 00 | 12 | 10 | |
| Q-73 | John H. Douglas | Imnac Nearer | D | 96 | 2 | Tmu | 223 | 83 | 1950 | Су | D, B | 68 | 2 | 7 | |
| Q-74 | Robert L. Ball | do | D | 43 | * * | Tmu | 209 | 33 | 1942 | Су | D | 68 | 17 | 47 | |
| Q-75 | Cleve Fuqua | | В | 16.6 | 10 | Tmu | 236 | 5555 | 120220 | М | D | ** | 44 | | |
| Q-76 | A. C. Cook | Flo Drilling Co | D | 293 | 4 | Tg Tm To | *** | 50, 8 | 5-24-57 | T | D,8 | ** | * * | | Casing: 4-in, to 210 ft.; none below. See driller log. |
| R- 1 | L. H. Pate | lease Nearer | D | 42 | 2 | Tenu | 201 | 53 | 1951 | Cy | D | 67 | 1 | 7 | Casing: 2-in. to 36 ft.; 2-in. screen from 36 to 42 ft. |

Table 4.-Records of wells in Escambia County, Ala.-Continued

| | | | | | _ " | 1 | | Wa | ter level | | | Field | d dater | ninations | |
|------|-----------------|------------------------|----------|-------------------------|---------------------------|-----------------------------|------------------------------------|--|--------------------------|----------------|--------------|----------------------|------------------------|-------------------------------|---|
| Well | Owner | Driller | Туре | Depth of well (feet) | Diameter of well (inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of meas- urement | Method of 11ft | Use of water | Temperature (° F) | Chloride (Cl) (ppm) | Hardness as CaCOS (ppm) | Romarks |
| R- 2 | J. M. Mancil. | | D | 110 | 2 | Tmu | 276 | Vent et | | Cy | D | 17.7 | 16 | 18 | Casing: 2-in. to 105 ft.; 2-in. screen from 105 to 110 ft. |
| 1-3 | David Almond. | Issac Nearer | D | 68 | 2 | Tmu | 239 | | | Су | 8 | 34 | 11 | 10 | Casing and screen: 2-in. to 68 ft. |
| - 4 | Rabb Debrow | do | ם | 35 | 2 | Tmu | 200 | 5. 0 | 3-15-55 | Су | N | 4.6 | 1000 | | |
| - 5 | L. W. Gray | L. W. Gray. | Dr. B | 16,6 | 14 | Qt | 126 | 11.9 | 3-15-55 | P | D | 66 | 2 | 14 | |
| - 6 | Carrie Smith | Frank Smith, | Dr. B | 23 | 11/2 | Qt | 124 | | | P | D, B | 65 | 4 | 71 | Casing and screen: 14-in. to 23 ft. |
| 7 | Thomas McMillan | ********* | D | 218.5 | 4 | Ty Tmb | 116 | F4.93 | 457 | y | N | 355 | 33 | *** | Casing: 4-in. to 145 ft.; none pelow. Electric log in files of U.S. Geol. Survey. |
| 8 | Carrie Smith | Sam Smith | Dr. | 18.3 | 14 | Qt | 118 | 13. 1 | 3-15-55 | P | D, S | 86 | 2 | 28 | |
| - θ | T. R. Miller Co | Jim Logan.,,,, | Д | 348. 6 | 4 | To Ty Tmb | 110 | 26. 6 | 3-15-55 | \$1\$ | N | -64 | 1.0 | 494 | Casing: 4-in. to 107 R_{\odot} ; none below. Electric log in files of U.S. Geol. Sur. 7 |
| 10 | do | J. J. Barlow | D | 18.4 | 2 | Qt | 118 | 15.3 | 3-15-55 | Су | D | - | :4 | 25 | |
| -n | Buddy McGowin | | Dr | 20.8 | 14 | Qt | 146 | 17.8 | 3- 8-55 | P | D | 68 | 6 | 14 | |
| -12 | J. C. McGowin | Fred McCreary | D | *** | 3 | Tg Tm To | 131 | 40 | 1929 | P | D | 44 | 2 | 164 | |
| -13 | E. L. Nettles. | Marcus Blair | D | 165 | 4 | Tg Tm To | 132 | 40 | 1948 | 3 | D | | 1 | 192 | Caming: 4-in. to 43 ft.; none below. |
| -14 | A. F. Holley | Deep Wall Drilling Co. | D | 327 | 6 | Tg Tm To Ty Tmb | | +13 | 9-20-50 | F | 3 | 70 | 49 | 1912 | 7 |
| -15 | James Williams | isanc Nearer | D | 14.8 | 14 | Qt | 117 | 6, 6 | 7-30-56 | P | D | 69 | 28 | 26 | |

| R-16 | Jane Morbley | do | Dr. B | 19.0 | 14 | Qt | 122 | 13.9 | 3-15-56 | P | D | 66 | 4 | 18 | |
|------|--|---------------------------|----------|-------|----|----------------------------|-----|--------|----------|----|-------|-------|------|--------|--|
| 3-17 | E. B. Avant. | do | D | | 2 | Tmu | 207 | 000000 | | J | D | 4.0 | 2 | 12 | |
| R-18 | David Almond | | D | 100 | 3 | Tmu | 279 | *,*,** | | Су | D | 4.4 | 2.1 | 141414 | |
| -19 | A. C. Pierce | A. C. Pierce. | Д | 62 | 2 | Tmu | 261 | **** | | Су | D | 67 | 2 | 17.7 | Casing: 2-in. to 77 ft.; 2-in. screen from 77 to 82 ft. |
| 1-20 | Prestwood | ************ | | | 2 | Tmu | 266 | | | P | D | 1.1 | 4.5 | | |
| -21 | Archie Garvin | Robbins - McGowin | D | 87 | 2 | Tmu | 270 | *** | 1.63.515 | J | D | .111 | 1 | ä | Casing and screen: 2-in, to 87 ft. |
| -22 | J. H. Brown | | (0.0)/ | 68 | 2 | Tmu | 276 | | | Су | D | 54 | 19.6 | Sec | |
| 1-23 | Porter Wilson | **** | 1600 | 85 | 2 | Tmu | 267 | | | Су | D | 60 | 1 | е | |
| -24 | W. B. Wryrosdick | Isuac Nearer | D | 65 | 2 | Tmu | 256 | | | P | D | (4.4) | 1 | 2 | Despensed from 20 to 65 ft. |
| 1-25 | J. R. Barnes | do | D | 80 | 2 | Tmu | 267 | | ***** | J | D | :55 | 2 | 21 | |
| 1-25 | Jack Clements | do | D | 75 | 2 | Tmu | 262 | 40 | 1043 | J | D, B | 4.7 | 2 | 10 | Casing and screen; 2-in, to 75 ft. |
| -27 | Mack Hoomes | do | D | 54 | 2 | Tmu | 258 | +++ | | J | D | ** | 7 | 29 | Casing: 2-in. to 49 ft.; 2-in. screen from 49 to 54 ft. |
| -28 | 8. N. Hughes | ***** | ** | 70 | 2 | Tmu | 258 | 32 | 1950 | J | D, S | | 1 | 15 | Casing and screen: 2-in, to 70 ft. |
| 1-29 | Porter Wilson | J. A. Watson | D | 220 | • | Tc Tb Tg Tm To | 250 | 30 | 1955 | P | D, fl | 1,90% | | 3555 | Casing: 4-in. to 120 ft.; none below. |
| 1-30 | W. E. Oglestreet | Walter Douglas | В | 14.3 | 11 | Tmu | 238 | 12.9 | 3-17-56 | P | D,S | 66 | 3 | 16 | Limited supply during fall months. |
| 3-31 | J. C. Hart | Isaac Nearer | D | 80 | 2 | Tmu | 309 | **** | | Су | D, B | 67 | 2 | 7 | Casing and screen: 2-in, to 80 ft. |
| 1-32 | W. O. Parrish | Etheridge Plumbing Co. | D | 122 | 4 | Tmu | 292 | 12(1) | | J | D | 12.2 | (1 | 7 | Casing: 4-in. to 112 ft.; 4-in. screen from 112 to 122 ft. |
| 1-33 | W. L. Hart | Payne | D | 70 | 2 | Tmu | 292 | | | J | D | Skie | 5 | 8 | Casing: 2-in, to 85 ft.; 2-in, acreen from 85 to 70 ft. |
| R-34 | W. W. Watson | | D | 39.7 | 2 | Tmu | 239 | 6, 9 | 4-18-57 | J | D | | 133 | 11.5 | Casing: 2-in. to 34.7 ft.; 2-in. screen from 34. to 39.7 ft. |
| 1-35 | do | Jack Davis | D | 40 | 2 | Tmu | 244 | | | Су | В | 67 | 1 | 7 | |
| -38 | Richard Poindexter. | Isaac Nearer | D | 65 | 2 | Tmu | 274 | | | Су | D, S | 16.00 | 2 | 9 | Casing: 2-in. to 81 ft.; 2-in. screen from 81 to 65 ft. |
| 2-37 | Ruth Miller | Richard Poindaxter | D | 28.5 | 2 | Tmu | 238 | 23.8 | 3-21-56 | Р | D | 100 | 49 | 17.4 | |
| 1-38 | A. J. Gray | A. J. Gray | D | 38 | 2 | Qt | 122 | 17 | 1955 | J | D,B | 140 | - 27 | 22 | |
| R-39 | Escambia County Board of Education. | Isaac Nearer | D | 19. 4 | 14 | Qt | 122 | 11.5 | 7-27-56 | P | P | 0.19 | 101 | 10107 | Water leaves yellow stain. |

Table 4.-Records of wells in Escambia County, Ala.-Continued

| | | | | | - | | - 1 | 200 | ter level | | | Fiel | d deter | minations | |
|------|-----------------------------|-----------------|------|-------------------------|---------------------------|-----------------------|------------------------------------|--|--------------------------|----------------|--------------|----------------------|------------------------|---|--|
| Well | Owner | Driller | Туре | Depth of well (feet) | Diameter of well (inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of meas- urement | Method of lift | Use of water | Temperature (* F) | Chloride (CI) (ppm) | Bardness as CaCO ₃ (ppm) | Remarks |
| R-40 | Marietta Baptist Church. | Isaac Nearer | D | 19. T | 14 | Qt | 118 | 10.7 | 7-30-58 | P | р | 56 | 11 | 16 | Water leaves yellow stain. |
| R-41 | Callie Avant | do | D | 27.3 | 14 | Qt | 125 | 20.6 | 7-30-58 | P | D | 67 | 7 | 14 | |
| R-42 | Dewitt Davidson | Dewitt Davidson | D | 52 | 2 | Tmu | | 43 | 1938 | Cy | D, S | | 14 | 9 | Casing and acreen: 2-in. to 52 ft. |
| R-43 | Jewitt Bradley | | D | 18, 2 | 14 | Tmu | | 9.5 | 7-30-56 | P | D, S | 949 | | 13.12 | - 6 |
| R-44 | H. C. Bradley | H. C. Bradley | D | 22 | 14 | Tmu | | **** | | P | D | | 16 | 18 | |
| R-45 | C. E. Edwards | Isaac Nearer | D | 45 | 2 | Tmu | 238 | 1144 | zarana. | J | D | 70 | 1 | 9 | Casing: 2-in. to 40 ft.; 2-in. screen from 40 to 45 ft. |
| 8- 1 | J. H. Jones , , , | ****** | Du | 19.6 | 12 | Tmu | | 12.4 | 8-10-56 | J | D, B | 23 | 209 | 69.3 | |
| 8- 2 | John J. Giles | John J. Giles | D | 104 | 2 | Tmu | 262 | 94 | 1951 | J | D, S | 20 | 1 | 5 | Casing: 2-in, to 99 it.; 2-in, screen from 99 to 104 ft. |
| 8- 3 | S. E. Beasley | ***** | D | 95 | 3 | Tmu | 233 | **** | 0.000 | J | D | 0414 | 1 | 4 | Casing: 3-in, to 76 ft.; none below. |
| B- 4 | Wilms Henley , , | Isaac Nearer | D | 65 | 2 | Tmu | 201 | 60 | 1950 | J | D | 14.5 | 1 | 6 | |
| 8- 5 | L. W. Henley | | Da | 28.0 | 24 | Tmu | 207 | 24.3 | 3-21-55 | М | D, S | 67 | 9 | 53 | |
| 8- 8 | Hampford Green | | | 11,5 | 1 | Tmu | | 8.1 | 3-26-66 | P | N | | 2 | 13 | |
| 8-7 | | | Dr | 15,8 | 14 | Tmu | | 7.9 | 4-20-56 | P | N | 144 | 139/2 | (60 · | |
| 8- B | Hubert Spence | ********* | Dr | 29 | 14 | Tmu | 167 | **** | | P | D | 66 | 1 | 4 | |
| B- 0 | Houston Spance. | Houston Spence | Du | 42,2 | 8 | Tmu | 109 | 38.5 | 8- 8-58 | м | D | 70 | 23 | 72 | |
| Ø-10 | Earl Bray | Hubert Spence | D | 41 | 2 | Tmu | | 11111 | | Су | Д | 67 | 1 | 12 | |
| 8-11 | Ingram Spence | Isaac Nearer | D | 75 | 2 | Tmu | | 63 | 1953 | Cy | מ | 14.4 | 7 | 24 | Casing: 2-in. to 70 ft.; 2-in. screen from 70 to 75 ft. |
| 8-12 | L. D. Spence | L. D. Spence | D | 57 | 2 | Tmu | | 50 | 1955 | Су | D | Sein. | - 3 | See | |
| 8-19 | J. C. Elliott | Hubert Spence | D | 83 | а | Tmu | 171 | 4444 | 858 | J | D, Ø | 1272 | 7 | 44 | |
| 8-14 | Hardin Gatewood. | Hardin Gatewood | 200 | 22, 5 | 14 | Tmu | +33 | 16.1 | 8-10-58 | P | D | 70 | 4.4 | | |

| 8-15 | Cecil Palmer | Albert Bensley | D | 104 | 2 | Tmu | 111 | 80 | 1953 | Су | D, S | .* * | 4 | 10 | Casing: 2-in, to 100 ft.; 2-in, screen from 100 to 104 ft. Water leaves stain. |
|------|----------------------------|-------------------------------|-----|------|-----|------------------|--------|----------|----------|----|------|-------|-------|--------|--|
| 8-16 | H. E. Palmer | Charles Casin | D | 66 | 2 | Tmu | 10.5 | | ***** | J | D,B | 70 | 7 | 20 | |
| 8-17 | R. W. Palmer | J. A. Watson | n | 272 | 4 | Tmu Tg (?) | | 84 | 1954 | J | D | | 7 | 18 | Water from depth of 272 ft, not usable because o excessive iron content. Casing perforated at 90 ft, to obtain suitable supply. |
| 9-10 | J. H. Elliott, Br | | α | 178 | 4 | Tmu | 202 | 52 | 1953 | J | D, S | 71 | -99 | | Casing: 4-in. to 150 ft.; none below. Water leaves stain. |
| 9-19 | Grover Henley | Hubert Spence | D | 52 | 2 | Tmu | | 1.0.0.0 | | Су | D | 68 | 100 | 2.17 | |
| 8-20 | Julian Henley | do | D | 42 | 2 | Tmu | | 4416 | | | N | 16.0 | 197 | 26.6 x | |
| 9-21 | Assembly of God Church, | da | D | 67 | 2 | Tmu | | Sec. 17. | | Су | D | 15.5 | ** | *** | |
| 3-22 | H. R. McKissack | H. R. McElssack | D | 46 | 2 | Tmu | 172 | 1-1-0-1 | | J | D, B | ** | 1 | 7 | Casing: 2-in. to 41 ft,; 2-in. screen from 41 to 46 ft. |
| 3-23 | E. T. Worrell | E. T. Worrell , | Du | 35.0 | 38 | Tmu | 179 | 31.3 | | м | D | 67 | -3 | 86 | |
| 3-24 | do | E. L. Thomason. | D | 84 | 2 | Tmu | 179 | | 0275555 | J | D, B | | 0 | 17 | Casing and screen: 2-in. to 84 ft. |
| -25 | J. D. Canady. | least Nearer | D | 63 | 2 | Tmu | 185 | 26 | 1949 | J | D, S | 322 | 2 | 9 | |
| -26 | do | do | D | 70 | 2 | Tmu | 202 | 55 | 1952 | Су | D | 10.0 | 1000 | | Casing and screen: 2-in. to 70 ft. |
| 3-27 | H. D. Lee | Albert Beasley | D | 60 | 2 | Tmu | 189 | | | Су | D | 88 | 2 | 6 | |
| -28 | J. B. Henley | Cleveland Coxwell | 100 | 22 | | Tmu | | | | P | D | 12.7 | 11 | 41 | |
| -29 | B. A. Ballard | J. Jeffers | Du | 33.1 | 30 | Tmu | 11-4-4 | 24.6 | 8-10-58 | | Fig. | 164 | 15 | ē | Goes dry during droughts. |
| 3-30 | W. J. Taylor | Flo Drilling Co | D | 92 | 2 | Tmu | *** | 51.5.5 | 11111111 | J | D | 155 | 7 | 25 | Casing: 2-in. to 87 ft.; 2-in. screen from 87 to 92 ft. See driller's log. |
| 3-31 | J. C. Nelson | Hubert Spence | D | 73 | 1 | Tmu | | | | J | D, S | 12. | 10 | 40 | |
| 3-32 | James Nelson | | D | 97 | 2 | Tmu | | | | Су | D | . 8.8 | 11 | 10 | Water leaves stain. |
| 3-33 | Claude Cromby | Spillers Well and Pump Co. | D | 99 | *** | Tmu | | | | J | D,8 | 1/2 | 7 | 14 | Test well drilled to 300 ft. Water leaves yellow stains. |
| 34 | Angus Adams | O. W. Findley | D | 42 | 2 | Tel | 444 | 4-4-4-4 | 224444 | 3 | D | 131 | 0 | 10 | |
| -35 | J. D. Wallace | | | 25 | 4.4 | Tel | | 11111 | ****** | C | D | 111 | 31 | 84 | |
| -36 | George W. Jackson. | | D | 47 | 2 | Tel | 200 | 33 | 1954 | Су | D | 69 | 0 | 6 | |
| -37 | John Bray | Robbins - McGowin | D | 44 | 2 | Tel | 6.9.9 | 29 | 1952 | J | D | | 4 | 10 | |
| -38 | J. M. Kent | Spillers Well and Pump Co. | D | 200 | 2 | Tmu | *** | 120 | 1952 | Су | D, 8 | 68 | 45400 | 100 | Casing and screen: 2-in, to 200 ft, |
| -39 | Henry Booker | | 349 | 26.0 | 14 | Tci | 8.6.9 | 18.0 | 8- 8-56 | P | D | 68 | 4 | 14 | |
| -40 | E. J. Booker | Ashburn | D | 95 | 2 | Tel | | 90 | 1950 | Су | 8 | 22 | 2 | 11 | |

Table 4.-Records of wells in Escambia County, Ala.-Continued

| | | | | | | | | We | iter level | | | Field | d deter | minations | |
|------|--|------------------|------|-------------------------|------------------------------|---|------------------------------------|--|--------------------------|----------------|--------------|---------------------|---------------------|-------------------------------|--|
| Well | Owner | Driller | Type | Depth of well (feet) | Diameter of well (Inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of mess- urement | Method of 11ft | Use of water | Temperature (°F) | Chloride (Cl) (ppm) | Hardness as CaCO3 (ppm) | Remarks |
| B-41 | E. J. Booker. | Ashburn | D | 87 | 2 | Tei | | 71 | 1950 | 1 | D | 69 | 2 | 6 | |
| 8-42 | J. L. Wiggins | Norville Pittman | D | 85 | 2 | Tel | | 40 | 1951 | Су | D | 69 | 2 | 19 | |
| B-43 | Hugh J. Elliott | Albert Beasley | D | 78 | 2 | Tei | *** | 1154.5 | | | D, B | | 11 | 13 | |
| T- 1 | James Wiggins | Isaac Nearer | D | 48 | 1 | Tmu | 188 | 36 | 1954 | Су | D, Ø | 70 | 13 | 12 | Casing: 2-in. to 43 ft.; 2-in. screen from 43 to 48 ft. |
| T- 2 | E. J. Herrington | ***** | | 100 | | Tmu | 170 | 1111 | | | D, S | *** | 2 | 10 | |
| T- 3 | Edmund Herrington | | В | 24.7 | 0.0 | Tmu | 139 | 4444 | | м | D | ** | 20.0 | /4 · . | |
| T- 4 | J. M. Wilson | faunc Nearer | D | 85 | 2 | Tmu | 177 | 70 | 1953 | J | D | 69 | 0 | 6 | Casing: 2-in. to 80 ft.; 2-in. screen from 80 to 85 ft. |
| T- 5 | Henry King | | в | 21.0 | 10 | Tmu | 165 | 20.5 | 10-18-56 | м | D | 69 | ø | 8 | |
| T- 8 | B. S. Parker | B. S. Parker | ** | 15 | 14 | Tmu | 116 | **** | | p | D | (FIE) | 13 | 22 | |
| T- 7 | R. L. Koon | R. L. Koon | D | 93 | 2 | Tmu | 131 | 53 | 1939 | Су | N | | 90 | *** | Well abandoned. |
| T- 8 | Clyde Thomas | Inunc Nearer | D | 94 | 2 | Tmu | 174 | 65 | 1953 | J | D | ōn | 0 | 5 | Casing: 2-in, to 89 ft.; 2-in, acreen from 89 to 94 ft. |
| T- 9 | Leon Thomas | do | D | 45 | 1.13 | Tmu | 180 | 37 | 1953 | Cy | D | 15.5 | 0 | 4 | |
| T-10 | Gus Thomas | | 18 | 75 | | Tmu | 204 | **** | | Cy | D | 12121 | 0 | 8 | |
| T-11 | S. E. Parker | | *** | 22 | * * | Tmu | 218 | 35.55.53 | | P | D | (5) 5) | 13 | 38 | |
| T-12 | Gordon Parker | | D | 78 | 2 | Tmu | 216 | | | Cy | D,S | 68 | 0 | 8 | |
| T-15 | Escamble County Board of Education. | Marcus Blair | מ | 800 | 4,3 | Tg Tm To Ty Tmb Tgo (?) | 258 | 70 | 1952 | С | P | 70 | 35.5 | lastit. | Casing: 4-in. to 256 ft.; 3-in. from 256 to 400 ft. none below. School supply. |
| T-14 | H. J. Butts | H. J. Butts | D | 42 | 2 | Tel | | **** | | 2 | D, 8 | | 4 | 10 | Casing and screen: 2-in, to 42 ft. |

| T-15 | Alex Fuqua | | 4.6 | 21, 9 | 15 | Tci | +++ | 16.6 | 8-11-58 | P | а | 101 | 180 | 833 | |
|-------|-----------------------|---------------------------|-----|-------|-----|------------------|-------|------|----------|----|------|-------|------|-------|--|
| T-16 | Leslie Phillips | Narvell Pittman | D | 30 | 14 | Tel | | 24 | ***** | P | D,8 | -4 | ** | | |
| T-17 | Willis Tyree | Willie Tyree | D | 65 | 2 | Tcl | | | | С | D | 121 | 11 | 18 | |
| U- 1 | W. W. Jackson. | Luke McDaniel | D | 75 | | Tmu | 219 | ,48 | 1949 | Cy | D, B | 69 | (1) | 10 | |
| U- 2 | S. E. Parker | O. W. Findley | D | 60 | 2 | Tmu | 213 | 40 | 1953 | J | D | 89 | 1 | 2 | |
| *U- 3 | Claude Thomas | W. A. Blair | D | 305 | 3 | Tmu (?) Tc | 215 | 00 | 1954 | Су | D,S | 69 | VV: | *** | Casing: 3-in. to 250 ft.; 2-in. slotted casing fro 242 to 305 ft. |
| U- 4 | J. T. Bush | Isaac Nearer | D | 83 | 2 | Tmu | 212 | 53 | 1945 | Су | D, 8 | ¥(4)) | 38 | 76 | Casing: 2-in. to 78 ft.; 2-in. screen from 78 to 83 ft. |
| U- 5 | Willis Crutchfield. , | Willis Crutchfield | D | 83 | 2 | Tmu | 218 | 66 | 1951 | J | D, S | 8.87 | 0 | 0 | |
| U- 8 | Joe Crutchfield | Barlow | D | 95 | 2 | Tmu | 218 | 77 | 1933 | J | D, 8 | 5.50 | 2 | 18 | |
| U- 7 | Robert Bush | Robert Bush, | D | 95 | 2 | Tel | 269 | 83 | 1951 | Су | D | Yes | 2 | 7 | |
| U- 8 | R. M. Fuqua | | | 21, 2 | 14 | Qt | 111 | 12.2 | 4-30-58 | .7 | D | 525 | | | |
| U- 9 | Dempsey Batson | Dempsey Batson | -53 | 18.7 | 2 | Qt | 24.4 | 9.1 | 4-30-58 | C | D, S | XE. | × 41 | *** | |
| U-10 | E. M. H. Cox | E. M. H. Cox | 49 | 18.9 | 14 | Qt | 4.6.4 | 11.9 | 4-30-56 | P | D | | 4 | 8 | |
| U-11 | Percy Brooks | Perry Brown , | D | 400 | 3 | Tg Tm To | *** | | ******* | ** | D | 71 | т | 133 | |
| U-12 | Joe Taylor | Joe Taylor | Dr | 20.6 | 1‡ | Qt | | 10,6 | 4-27-66 | P | s | 86 | 7 | 6 | |
| U-13 | Clinton G. Pearson, | Albert Beasley | 3 | 116 | 2 | Tel | 295 | 82 | 10-14-55 | J | D,B | 72 | 0 | 21 | Casing: 2-ln. to 111 ft.; 2-in. screen from 111 to 116 ft. Pumped at 4.3 gpm. See driller's log. |
| U-14 | L. B. Fuqua | Williams Pump Co | D | 100 | 2 | Tci | 296 | 70 | 1947 | ı | D | ** | 1 | 10 | Casing: 2-in. to 95 ft.; 2-in. screen from 95 to 100 ft. |
| U-15 | B. S. Littel | | * 1 | 80 | | Tet | 299 | | ***** | Су | D | 89 | 13 | 19 | |
| U-16 | W. J. Barnes | | ** | 76 | ()) | Tci | 302 | 58 | 1955 | | D, 8 | | 0 | В | |
| *U-17 | M. J. Brakeen | Smith | D | 120 | 2 | Tei | 301 | 60 | 1952 | J | D, 8 | 70 | 44 | 4.4.4 | |
| U-18 | William Grice, Jr. | Bill Warrick | מ | 35 | 2 | Tmu | +++ | 20 | 255 | Су | D | 68 | 4 | 7 | |
| U-19 | William Grice, Sr. | Barrentine | D | 34 | 2 | Tmu | | 24 | 1942 | Су | D, E | 73 | 73 | В | |
| U-20 | Richard Nelson | Bill Warrick | D | 101 | 3 | Tmu | - + 1 | 87 | 155 | Су | D | 89 | 1 | 7 | |
| U-21 | T. M. Nalson | Etheridge Plumbing Co. | D | 132 | 2 | Tmu | | 103 | 1955 | P | D | | 1 | 12 | Casing: 2-in. to 126 ft.; 2-in, screen from 126 to 132 ft. See driller's log. |
| U-22 | Harvey Grice | | D | 52 | 2 | Tmu | *** | 39 | 1951 | J | D | ++ | 1 | 3 | |
| U-23 | Riley T. Grice | Barrentine. | D | 80 | 2 | Tmu | *** | 85 | | Cy | D, B | 70 | 0 | 5 | Casing: 2-in. to 75 ft.; 2-in. screen from 75 to 80 ft. |

Table 4.-Records of wells in Escambia County, Ala.-Continued

| | | | | | _ | | | Wa | ter level | | | Fleld | determ | Inations | |
|-------------|-----------------|------------------|-------|-------------------------|---------------------------|--|------------------------------------|--|--------------------------|----------------|--------------|---------------------|------------------------|-------------------------------|---|
| ₩e∐ | Owner | Driller | Туре | Depth of well (feet) | Diameter of well (inches) | Water-bearing unil | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of mess- urement | Method of lift | Use of water | Temperature (°F) | Chloride (Cl) (ppm) | Hardness as CaCO3 (ppm) | Remarks |
| U-24 | Leroy Fuqua | ************ | D | 140 | 2 | Tel | 49.4 | 128 | 1952 | Су | D | 70 | 2 | 5 | |
| U-25 | 8. E. Bulls | ******* | | 32 | | Tcl | 271 | | | p | n | | 1 | 5 | |
| U-26 | U. B. Fuqua | 2151579121121111 | 900 | 85 | 900 | Tel | 270 | **** | | Су | D,S | 89 | 1 | 4 | |
| U-27 | Fern R. Fuqua | ***** | D | 107 | 2 | Tel | 297 | 87 | 1047 | Су | D | 70 | 11 | 9 | |
| U-28 | G. C. Peevy | Barrentine | D | 120 | 2 | Tel | | | | J | D, S | | 1 | 4 | |
| U-29 | E. L. Jernigan | E. L. Jernigan | D | 108 | 2 | Tel | 111 | | | Су | D, S | 68 | 2 | 6 | |
| U-30 | J. J. Jernigan | Warrick | D | 113 | 2 | Tei | | 100 | 1950 | Cy | D, S | | 1 | 7 | |
| U-31 | P. Thompson | - Barrentine | D | 98 | 2 | Tei | | | | Су | D | 71 | 1 | 7 | |
| V- 1 | T. R. Miller | Marcus Blair | D | 310. 0 | 4,3 | тв | 84 | +33, 6 | 3-15-57 | F | Irr, | 71 | 4 | 128 | Casing: 4- to 3-in, to 300 ft, none below. Mess- ured drawdown 31.5 ft. after flowing 32.3 gpm on 4-5-57. Electric log in files of U.S. Geol. Survey. Reported depth 420 ft. |
| *V- 2 | E. C. Spinks | E. C. Spinks | Dr | 26 | 14 | Qt | 800 | 16 | 1954 | P | D | 88 | 20 | 444 | Casing and screen: 14-in, to 26 ft. Water leaves yellow stain. |
| V- 3 | Carfield Weaver | | 3.0 | 18.0 | 14 | 1Q | 84 | 7.6 | 4-27-56 | P | D | 66 | 11 | 8 | |
| V- 4 | E. C. Spinks | | 12.20 | 18.1 | 14 | Qt | 83 | 10.1 | 4-27-58 | P | D | 66 | | 788 | |
| V- 5 | | L, T. Weaver | 4.0 | 28 | 14 | Qt | | | | P | D | | 7 | 13 | Water leaves yellow stain, |
| V- 8 | Fred Weaver | Wyatt Brothers | Dr | 17.3 | 2 | Qt | 84 | 7.8 | 4-28-58 | P | D | 85 | 7 | 18 | Do. |
| V- 7 | J. T. Kennedy | Kennedy | 4.9 | 22 | 11/2 | Qt | | | | P | D | 8.0 | 12 | 14 | |
| V- 8 | J. J. Haveard | Louis Grice. | 11 | 18 | 14 | Qt | | | | Су | D | 22 | 11 | 13 | |
| V- 9 | Yancey Mantle | Marcus Blair | D | 540.0 | 4 | Tg Tm To Ty Tmb Tgo Tl | 85 | +34.5 | 3-19-57 | F | D | 73 | 0 | 114 | Casing: 4-in. to 284 ft.; none below. Measured flow 60.0 gpm on 12-14-57. Electric log in files of U.S. Geol. Survey. |

| V-10 | Billy Reglish | Hostedder | D | 402 | 4, 2 | Tm To | 83 | +18,8 | 1-14-65 | F | 8 | 72 | 2 | 118 | Casing: 4-in, from surface to 188 ft.; 2-in, from surface to 292 ft.; none below. Measured flow 27.3 gpm on 1-14-55. |
|------|---------------|--------------------------|---|-------------|------|------------------------------------|-----|-------|----------|------|------|-----|-------|-------|--|
| V-11 | C. W. Nolin. | Marcus Blair. | D | 855 | 4 | Tm To Ty Tmb Tgo Tl | 84 | +46 | 1952 | F | D | ** | 0 | 102 | Casing: 4-in. to 300 ft.; name below. |
| V-12 | Henry Mantle | | D | 400 | 2 | Tg Tm To | 95 | + 4.0 | 1-14-55 | F | D, B | 70 | D | 110 | Casing: 2-in, to 280 ft.; none below. Measured flow 1.8 gpm on 12-15-54. |
| 7-13 | John Stewart | Wooten | D | 45 | 3 | 177 | 92 | | ***** | 2.0 | | 200 | (4.4. | | Filled in and shandoned. |
| 7-14 | Yancey Maddox | do | D | 300 | 3 | Tg Tm | 83 | +10.0 | 12-17-54 | F | D, S | 71 | 0 | 112 | |
| 7-15 | W. H. Harold, | ds | D | 380 | 4,2 | Tg Tm To | 100 | | | F. | N | 72 | * * | * 0.0 | Measured flow 2, 7 gpm on 11-17-54. |
| 7-16 | Lena Ashton | do | D | 400 | 1 | Tg Tm To | 103 | + 8.6 | 1-15-65 | F | 8 | 71 | 2 | 108 | Measured flow 1.1 gpm on 11-17-54. |
| 7-17 | Leonard Evans | .,do, | D | 6 75 | 2 | Tg Tm To Ty Tmb Tgo | 100 | +11.2 | 11-12-54 | y | D | 72 | 0 | 102 | Measured flow 11.1 gpm on 11-12-54. |
| 7-18 | Kennie Ashton | Hughes Water Well Co. | D | 420 | 3 | Tg Tm To | 79 | . 2.5 | 11-17-54 | F, P | D | 68 | (0) | 501 | Casing: 3-ln. to 84 ft.; none below. |
| 7-19 | Frank Harris | Wooten | D | 381 | 6,3 | Tg Tm To | 75 | 14000 | 11-16-54 | F | D | | 0 | 104 | Casing: 6-in, and 3-in, to 100 ft.; none below. Measured flow 27.0 gpm on 11-16-54. |
| 7-20 | O. H. Padgett | George Brown | D | 520 | 3 | Tg Tm To Ty Tmb Tgo | 104 | + 7.9 | 1-14-55 | F | 8 | 71 | 0 | 108 | Measured flow 5.0 gpm on 12-15-54. |
| 7-21 | R. E. Taylor | Marcus Biair | D | 415, 0 | 4 | Tg Tm To | 80 | +17.2 | 1-14-55 | F | D, S | 75 | D | 100 | Casing: 4-in. to 333 ft.; none below. Measured flow 35.0 gpm on 1-17-52. Electric log in files of U.S. Geol. Survey. |

Table 4.-Records of wells in Escambia County, Ala.-Continued

| | | | | | _ | | | Wa | ter level | | 1 | Field | detern | ninations | |
|-------------|-----------------|----------------|------|-------------------------|------------------------------|------------------------------------|------------------------------------|--|--------------------------|----------------|--------------|----------------------|------------------------|---|--|
| Well | Owner | Driller | Type | Depth of well (feet) | Diameter of well (Inches) | Water-bearing unit | Altilude of land surface (feet) | Above (+) or below land surface (feet) | Date of meza- urement | Method of lift | Use of water | Temperature (* F) | Chloride (C1) (ppm) | Hardness as CaCO ₃ (ppm) | Remarks |
| ∀-22 | R. E. Taylor | Marcus Hair, | D | 730.0 | 4 | Tg Tm To Ty Tmb Tgo | 51 | +25.0 | 2- 8-55 | F | 8 | 75 | Er | 63.4 | Casing: 4-in. to 325 ft.; none below. Messured flow 150 gpm on 4-3-57. Electric log in Illes of U.S. Geol. Survey. |
| V-23 | Cora Pennington | ********** | n. | 23. 6 | 14 | QL | 109 | 10.0 | 8-13-58 | p | D | 70 | 11 | 31 | |
| V-24 | ********** | | Dr | 24.5 | 14 | Qt | 73 | 11.5 | 5-19-55 | | 277 | 5.54 | 11.4 | for. | |
| V-25 | | Wooten | D | 210 | 2 | Te | 81 | | | F | 5 | 87 | 0 | 80 | Measured flow 3.5 gpm on 12-15-54. |
| V-26 | . , , , do | do | D | 460 | 4 | Tg Tm To | 91 | + 6.0 | 12-14-54 | F | 8 | 71 | 0 | 94 | Measured flow 3.3 gpm on 12-14-54. |
| V-27 | Leroy Whitten | Marcus Blair. | D | 460 | 4,3 | Tg Tm To | 79 | +37.7 | 12-14-54 | F | Irr, D | 72 | 0 | 98 | Casing: 4-in. to 300 (t.; 3-in. from 300 to 330 (t.; none below. Measured flow 85 gpm on 12-14-54. |
| V-28 | Tom Bridges | Hostedder | D | 487 | 2. | Tg Tm To | 79 | +11.0 | 12-14-54 | F | D | 124 | ** | *** | |
| V-29 | W. B. Peavy | O. W. Findley | D | 30 | 2 | Qt | *** | 18 | 1951 | J | D | 44 | 2 | 8: | Casing and screen: 2-in. to 30 ft. Water reporte to be high in iron content |
| V-30 | S. S. Thompson | 5. S. Thompson | В | 22,2 | 14 | Qt | 86 | 14.3 | 5-19-55 | P | N | 67 | 4 | В | Water reported to be high in Iron content. |
| V-31 | Tom Travis | Tom Travis | Dr | 26 | 14 | Tmu | | | | P | D, S | | 8 | 20 | |
| V-32 | Dixon Travis | ********** | | 101.1 | 2 | Tmu | 1000 | | | Су | D | 69 | 0 | 5 | |
| V-33 | | | D | | 2 | Tmu | 198 | | | J | D,S | | t | 11 | |
| V-34 | W. F. Glidden | | D | 81415 | 2 | Tmu | 171 | **** | ***** | J | D | (0.4) | | | |
| | ments w | | Dr | 44.0 | 11 | Qt | | STATE OF THE STATE | | P | D | 88 | -11 | 20 | |

| V-36 | Leroy Whitten | Marcus Blair | D | 710.0 | 4 | Tg Tm To Ty Tmb Tgo Tl | 67 | +37,0 | 4- 3-57 | r | Irr. D | 73 | 18 | 120 | Casing: 4-in, to 345 ft; none below. Messured flow 85,0 gpm on 3-20-58. Electric log in flies of U.S. Geol. Survey. See driller's log. |
|-------|------------------|---------------------------|----|-------|-----|--|-----|------------|----------|-----|-----------|------|--------|--------|---|
| V-37 | City of Brewton | ********** | D | 435.0 | 4 | Tg Tm To | 94 | +30, 7 | 4~ 6-57 | F | N | 73 | 2 | 156 | Casing: 4-in, to 385 ft.; none below. Measured flow 44.3 gpm on 4-7-57; Electric log in files of U.S. Geol. Survey. |
| V-38 | Henry Thompson, | Henry Thompson | Dr | 24.7 | 14 | QL | 88 | 9.3 | 5- 2-55 | P | D | 68 | *.* | 7.7.7. | |
| V-39 | W. E. Townsend. | Hostedder | D | 445 | 4,2 | Tm To | 78 | +40 | 1945 | F | | 110 | 8.87 | *** | Casing: 4-in, from surface to 220 ft.; 2-in, from surface to 445 ft. Reported flow 125.0 gpm in 1945. Reported flow at depth of 210 ft. was cased off. |
| V-40 | George Brantley | | | 15 | 14 | Qt | | | | C | D | 207 | 2 | 8 | |
| V-41 | 4 4 4 do 4 + + + | George Brantley | В | 15 | 14 | Qt | | V.133 | 1914.4.4 | С | D, B | 1.6 | 2 | 11 | Casing: $1\frac{1}{4}-in_c$ to 12.5 ft, ; $1\frac{1}{4}-in$. screen from 12.5 to 15 ft. |
| *V-42 | do | Cates Drilling Co | D | 486.0 | 3 | Tg Tm To | 76 | 1111 | 10-19-51 | F | N | 68 | * 10 | 17.5 | Casing: 3-in. to 375 ft.; none below. Electric log in files of U.S. Geol. Burvey. |
| V-43 | Ira Harris, | Ira Harris | В | 21.3 | 14 | Qt | 81 | 11, 9 | 5-20-55 | P | D | 66 | 0 | 5 | |
| V-44 | Minnie Carroll | Clyde Carroll | В | 19.7 | 14 | Qt | 80 | 11, 4 | 5-20-55 | P | N | | 3(.61) | 4.10 | |
| V-45 | R. L. Wiggins | | В | 27.7 | 14 | Qt | 81 | 2, 8 | 6- 2-55 | P | D | 86 | 2 | 6 | |
| V-48 | A. Lee James | | D | 82 | 2 | Tmu | 81 | | | J | D | 69 | 1 | 5 | Casing and screen: 2-in, to 82 It. |
| V-47 | L. C. Harris | | D | 84 | 2 | Tmu | | 56 | 1950 | J | D,S | 68 | a | 0 | Casing and screen: 2-in. to 84 ft, |
| V-48 | Y. C. Odom | Etheridge Plumbing | D | 235 | 2 | Tc (?) | 186 | 129 | 1955 | Су | D, S | 140 | 0 | 118 | Casing: 2-in. to 225 ft.; 2-in. screen from 225 to 235 ft. See driller's log. |
| V-49 | E. J. Dixon | C. O'Farrell | D | 55 | 2 | Tmu | | e (e (e) t | | J | D | 991 | 1 | 7 | |
| V-50 | Dozler | O. W. Findley | D | 80 | 2 | Tmu | | | | Су | s | 80 | 1 | 11 | Casing and screen: 2-in. to 80 ft, |
| V-51 | Claude Thomas | Claude Thomas | D | 32 | 2 | Tmu | 174 | 26 | 1945 | С | D, S | 200 | 1 | 8 | Casing: 2-in. to 27 ft, ; 2-in. screen from 27 to 32 ft, |
| V-52 | Helen Morrell | | α | 102 | 2 | Tmu | 229 | 72 | 1955 | 100 | D | est. | 7.7 | 100 | Casing: 2-in. to 96 ft.; 2-in. screen from 96 to 102 ft. |
| V-53 | E. Thomas | E. Thomas | В | 30 | 14 | Tmu | | | | P | D,S | 6.0 | 2 | 14 | Casing: $1\frac{1}{4}$ -in, to 27 ft.; $1\frac{1}{4}$ -in, screen from 27 to 30 ft. |
| V-54 | do | Hubert Thomas | п | 32 | 14 | Tmu | 198 | 16 | 1947 | Cy | D, S | đВ | 2 | 8 | Casing: $1\frac{1}{4}$ -in. to 29 lt_s ; $1\frac{1}{4}$ -in. screen from 29 to 32 lt_s . |
| V-55 | J. W. Сарры | Etheridge Plumbing Co. | D | 80 | 2 | Tmu | 174 | **** | | J | D | 69 | ar. | *** | Casing: 2-in. to 85 ft.; 2-in. screen from 85 to 90 ft. See driller's log of test well drilled to 140 ft. |

Table 4.-Records of wells in Escambia County, Ala.-Continued

| 7 | | | | | | | | Wa | ter level | | | Field | detern | ninations | |
|------|----------------------|----------------|------|-------------------------|------------------------------|-----------------------|------------------------------------|--|--------------------------|----------------|--------------|----------------------|------------------------|-------------------------------|---|
| Well | Owner | Driller | Type | Depth of well (feet) | Diameter of well (inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of mess- urement | Method of 11ft | Use of water | Temperature (* F) | Chloride (Cl) (ppm) | Hardness as CaCO3 (ppm) | Remarks |
| V-58 | J. D. Travis, Sr | ****** | D | 37 | 2 | Tmu | 184 | 100.0 | | Су | D,8 | 69 | 2 | 6 | |
| V-57 | J. D. Travis | J. D. Travis | 18.9 | 47 | 2 | Tmu | | | | J | D,S | 71 | 2 | 9 | |
| V-58 | J. L. Calvert , | J. L. Calvert. | -27 | 46 | 1 | Tmu | | | | J | D | | b | 5 | Casing: 2-in. to 43 ft.; 2-in. screen from 43 to 48 ft. |
| V-59 | C. Y. Dixon, , , , , | | | 65 | 10.0 | Tmu | 1000 | 45 | **** | 474 | D, B | 40 | 1 | 3 | |
| V-60 | E. Thompson. T. II | | | | 2 | Tmu | | 5151 | | J | D, fi | | 0 | 6 | |
| V-61 | Horace Harrelson, , | | + + | 31.2 | 11/2 | Tmu | 200 | 25, 0 | 10-29-58 | P | N | 10.0 | 4.0 | 1222 | |
| V-82 | | | | 114 | 2 | Tmu | | 100.55 | 111111 | J | D | | 1 | | |
| V-63 | Will Harris | | Dr | 19.1 | 14 | Tmu | | 15.0 | 5-27-55 | p | N | | 44 | 100 | |
| V-84 | Jim Thomas | | D | 82 | 2 | Tmu | | 62 | 1950 | J | D | sta | 0 | 7 | Casing: 2-in. to 78 it.; 2-in. screen from 78 to 82 ft. |
| V-65 | W. D. Douglas | C. O'Farrell | В | 65 | 12, 2 | Tmu | | 50 | 255 | J | D, S | 90 | 2 | 5 | |
| V-86 | John W. Day | Will O'Farrell | В | 48.7 | 8 | Tmu | *** | 43.0 | 6- 2-55 | м | D,S | 69 | 1 | 5 | |
| V-87 | T. R. Huff | D. C. Trautman | D | 100 | 2 | Tmu | 277 | | 12374 | Су | D, S | 20 | 6 | 22 | Casing: 2-in, to 97 (t.; 2-in, screen from 97 to 100 ft. |
| V-68 | W. H. Brantley | W. H. Brantley | D | 82 | 2 | Tel | 265 | 67 | 1946 | Су | D, 8 | 4.0 | 2 | 10 | Casing: 2-in. to 78 ft, ; 2-in. screen from 78 to 82 ft. |
| V-69 | Luke Galden | W. Warrick | D | 130 | 2 | Tei | 277 | 100 | 17.1.11.1 | Су | D, S | 70 | ** | | Casing and screen: 2-in. to 130 ft. Water leave iron stain. |
| V-70 | do | | 44 | 29.3 | 14 | Tel | | | 1001111 | | N | 7.0 | | 1000 | Dry on 4-29-55. |
| V-71 | ********* | ********** | | 111 | | Tel | 280 | ** - 1 | | Су | D | 550 | 4.4 | 97.5 | |
| V-72 | N. H. Jones | | Du | 25 | 36 | Tel | | | | Cy | D | | 1 | 2 | Low in dry weather. |
| V-73 | Rufus McNaughton. | | D | 125 | | Tel | 284 | 1111 | 10 F 3 S X | Cy | D, S | 2.8 | 1: | . 17 | |
| V-74 | T. C. Dixon | | Dr | 28 | 14 | Tcl | 294 | 23 | 501050 | С | D,S | ., | 2 | 13 | Casing and screen: $1\frac{1}{4}-in_{\circ}$ to 26 ft. |
| V-75 | J. C. Keck | | D | 105 | 2 | Tci | | 45 | | J | D | 100 | 1 | | |

| V-76 | W. Martin and P. Shelly. | O. W. Findley | D | 88 | 2 | Tel | | 40 | ****** | 7 | D, S | ** | 1 | 7 | Casing and screen: 2-in, to 68 ft, |
|------|--|---------------------------|----|-------|-------------|-----------------------|-------|-------|------------|------|------|-----|-----|-------|---|
| V-77 | Paul Z. Shelly | | D | 61 | 4 | Tel | 279 | 41.0 | | 1 | D,S | 92 | 1 | 6. | Casing: 4-in. to 56 ft.; 2-in. screen from 56 to 61 ft. |
| W- 1 | E. E. Liles | | D | 935 | 3 | | 0.1.4 | | | F | D | 4.5 | 11 | 128 | |
| W- 2 | Albert Miller | Marcus Blair. | D | 175.0 | 2 | Tmu | 87 | + 4.7 | 5-15-50 | F, J | D | 66 | 11 | 104 | Casing: 2-in. to 169 ft.; 2-in. screen from 189 to 175 ft. Measured flow 1.0 gpm on 5-15-56. Pumped at 10.0 gpm. See driller's log. |
| W- 3 | Bonnie Beach Pres- byterian Center. | Etheridge Flumbing Co. | D | 130.0 | 3 1 | Tmu | 92 | | **** | 44 | P | 22 | 4.4 | 1444 | |
| W- 4 | Container Corp- oration of America | Layne-Central Co | D | 485 | 18, 12,8 | Tmu Tg Tm To | 108 | 1.8 | 7- 9-56 | T | Ind | 2.0 | 36 | | Casing: 18-in. to 150 ft.; 12-in. from 100 to 168 ft.; 6-in. from 208 to 295 ft., 415 to 455 ft., and 475 to 495 ft.; 18-in. screen from 108 to 208 ft., 395 to 415 ft., and 455 to 475 ft. Measured drawdown 105.5 ft. after 24 hours pumping 450 gpm on 1-9-28. Test hold drilled to dright of 1,054 ft. See driller's leg. Electrical in fillies of U.S. Geol. Burvey. |
| W- 5 | Cravers Funeral Home. | Holiand Drilling Co. | D | 256 | 4 | Trou | 125 | 46, 1 | 2-22-57 | 1 | Ind | 68 | 7 | 72 | Casing: 4-in. to 241 ft.; 4-in. screen from 241 to 258 ft. Pumped at 43.0 gpm. See driller's log. |
| W- 6 | W. W. Jernigan | W. W. Jernigan | В | 40 | t | Tmu | 108 | 35.0 | 3-31-56 | М | D | 69 | 1 | 6 | |
| W- 7 | Edith Jernigan | Wooten | D | 475 | 4 | Tg Tm To | 111 | 11 | | 1 | D | ** | 1 | 132 | |
| W- 8 | J. J. Goneke | J. J. Goneke | D | 25 | 11 | Tmu | 136 | | 4.4.4.4.4. | P | а | | 38 | 122 | Casing: $1\frac{1}{4}$ -in. to 22 ft.; $1\frac{1}{4}$ -in. screen from 2: to 25 ft. |
| W- 9 | T. A. Wilson | T. A. Wilson | Dr | 25 | 14 | Tmu | 134 | **** | | C | D | 65 | 1 | 8 | Do. |
| W-10 | Pete Bryant | | | | 2 | Tmu | 138 | | ***** | 1 | D | .90 | 1 | 7 | |
| W-11 | J. R. Wilson | ****** | D | 100 | 2 | Tci | 206 | | 21111.12 | 3 | D | 3.5 | 0 | 4 | |
| ₩-12 | L. A. Bayder | Irving Carnley | D | 47 | 2 | Tci | 213 | 30 | 1955 | J | В | ** | *1* | * * * | Casing: 2-in. to 42 ft.; 2-in. screen from 42 t 47 ft. |
| W-13 | L. G. Snyder | O. W. Findley | D | 56 | 2 | Tel | 230 | 46 | 1952 | 1 | D, B | 193 | 0 | 4 | Casing: 2-in. to 52 ft.; 2-in. acreem from 52 t 56 ft. |
| W-14 | do | Dan Jordan | D | 62 | 2 | Tel | 246 | 52 | 1952 | 3 | D | 255 | 1 | 4 | Casing: 2-in. to 58 ft.; 2-in. screen from 58 t 62 ft. |
| W-15 | do | O. W. Findley | D | 73 | 2 | Tel | 250 | 19/22 | | J | D | 44 | 1 | 4 | Casing: 2-in. to 89 ft.; 2-in. screen from 69 1 |
| W-16 | John W. Gibson | Irving Carnley | D | 44 | 2 | Tel | 185 | 34 | 1953 | Cy | D, S | (44 | 1 | ō | |
| W-17 | J. L. Rigby | , do | D | 66 | 2 | Tel | 198 | 45 | 1952 | J | D | | 1 | 7 | Casing: 2-in. to 61 ft.; 2-in. screen from 61 t |

Table 4.-Records of wells in Escambia County, Ala.-Continued

| | | | | | - | | | Wa | ter level | | | Field | detern | ninations | |
|------|--|---|------|-------------------------|------------------------------|-----------------------|------------------------------------|--|--------------------------|----------------|--------------|----------------------|---------------------|-------------------------------|---|
| Well | Owner | Driller | Type | Depth of well (feet) | Diameter of well (Inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of mess- urement | Method of 11ft | Use of water | Temperature (° F) | Chloride (Cl) (ppm) | Hardness as CaCO3 (ppm) | Remarks |
| W-18 | Lavon Brooks | | D | 52 | 2 | Tel | 208 | 44 | | c | D | 70 | 0 | :6 | |
| W-19 | Joe Jackson | Etheridge Plumbing Co. | D | 123 | 2 | Tmu | | 3888 | 555555 | Су | D, 8 | 60. | 11 | 9 | See driller's log. |
| W-20 | E. E. Jackson | White Brothers | В | 27.4 | 8 | Tei | 215 | 19.0 | 1-20-56 | м | D | 4.9 | F347. | 52 | |
| W-21 | L. P. Jackson | Etheridge Plumbing Co. | D | 246 | 2 | Tmu | 232 | | 1.15.11.1 | Су | D | #34 | 4.0 | 144 | Do. |
| W+22 | John H. Jackson | White Brothers | ם | 19.6 | 14 | Tcl | 209 | 17. 1 | 1-20-56 | P | D | 68 | 11 | 35 | |
| W-23 | Charles Jackson | Flo Drilling Co. | D | 88 | 2 | Tmu | 205 | | | J | D | 2.4 | | isea | See driller's log of test well drilled to 273 ft. |
| W-24 | J. M. Herrington | | 13.7 | 32 | 14 | Tei | 10.00 | 22 | 1940 | P | D | | 11 | 22 | |
| W-25 | C. A. Rowell | Etheridge Plumbing Co. | Sea | 240 | 2 | Tmu | 200 | 140 | 1954 | Су | D | 1.4 | 0 | 12 | See driller's log. |
| W-26 | Denard Lambeth | J. B. Ellis | D | 80 | 2 | Tcl | 238 | *: *: * * | F-1 + 4 F 1 | J | D, 5 | 614 | 6 | 6 | Supplies 200 hogs and 30 cows. |
| W-27 | A. M. Gatwood, | Irving Carnley | D | 98 | 2 | Tei | 239 | 70 | 1956 | Су | D | 69 | 4 | 8 | Casing and screen: 2-in, to 98 ft. |
| W-28 | G. A. Carter, | D. C. Trautman | D | 50 | 2 | Tel | 212 | v. v. v. n | | Су | D, 8 | 100 | 11 | 29 | |
| W-29 | J. J. Thompson | *************************************** | n | 45 | 2 | Tel | | | | 1 | D, S | 1.54 | 4 | 7 | Casing: 2-in. to 40 ft.; 2-in. screen from 40 to 45 ft. |
| W-30 | J. W. Teel | Irving Carnley | D | 81 | 2 | Tei | 185 | 22.00 | | Су | D | 33 | 11 | 10 | |
| W-31 | Brooks Jackson | Etheridge Plumbing Ca. | D | 230 | 2 | Tmu | 220 | 1110 | 10.515.51 | Су | D | 68 | 4 | 13 | |
| W-32 | Escambia County Board of Education. | Gray Artesian Well Co. | α | 660 | 6,4 | Tgo (?) | 182 | 80 | 1953 | Cy | P | 7. | 2 | 108 | Casing: 8-in, to 400 ft.; 4-in, from 400 to 840 ft. 4-in, screen from 840 to 880 ft. Reported to be pumped at 18 gpm. |
| W-33 | Glenn Balley | Etheridge Plumbing Co. | D | 62 | 2 | Tmu | 11.1 | 44 | 1954 | J | D | -2/2 |)£52 | 754 | See driller's log. |
| W-34 | Thelma Smith, | do | D | 83 | 2 | Tmu | +++ | | erene. | J | D | 54,4 | 2 | 6 | Do. |
| W-35 | Noel Tedder | Noel Tedder | 4.9 | 17 | 11 | Tci | | | * * * * * * * * . | C | D, S | | 2 | 17 | |

| W-36 | T. M. Williamson. | T. M. Williamson | D | 20 | | Tei | | *** | ***** | J | D | 35.5 | 1 | 8 | |
|------|---------------------|---------------------------|------|--------|-----|----------------|-------|---------|-------------|----|------|------|------|--------|--|
| W-37 | C. C. Bird | C. C. Bird | 14.5 | 20 | 24 | Tei | | | | P | D, B | ** | 4 | 10 | |
| W-38 | A. D. Hale | | 14.0 | 11 | ** | Tei | *** | 7 | | P | D, 8 | | 3 | 11 | |
| W-39 | B. M. Franklin | B. M. Franklin | D | 18 | 14 | Tei | | **** | | P | D | | 0 | 3 | |
| W-40 | Buford Jernigan | Watson Hardware Co. | D | 23 | 11 | Tel | 22.0 | **** | **** | P | D | 42 | 8 | 21 | |
| W-41 | Arthur Chavers | Etheridge Plumbing Co. | D | 180 | 3 | Tmu | 132 | 60 | 11-15-55 | 1 | D | 94 | 4 | 66 | Do. |
| W-42 | do | | | 19.0 | 14 | Td | 132 | 5.0 | 3-16-57 | P | N | 70 | 2 | 48 | |
| W-43 | Kathleen Chavers | A. J. Jackson | | 16 | 14 | Tel | 10.00 | 11 | 1945 | P | ם | *:* | 21 | 18 | Casing: 11-in. to 12 ft.; 11-in. screen from 12 to 15 ft. |
| W-44 | I. H. Taylor | | 14.4 | 19 | 14 | Tel | 121 | 12 | 1954 | Су | D, B | .00 | 2 | 9 | |
| W-45 | A. H. Godwin, Jr | | 7.0 | 21 | 14 | Tei | | 12 | 1953 | P | D | ** | 0 | 10 | |
| W-46 | Robert W. Segrest . | Etheridge Plumbing Co. | D | 120 | 2 | Tmu | 147 | 2444 | (3.55)(4.5) | J | D | 2.0 | 4 | 38 | Casing: 2-in. to 115 ft.; 2-in. screen from 115 to 120 ft. See driller's log. |
| W-47 | J. W. Caldwell | do | D | 38 | 2 | Tel | | 28 | 1950 | 1 | D | 57 | 111 | 5.5.5 | |
| W-48 | M. P. Craver | Flo Drilling Co | D | 33.0 | 2 | Tel | 171 | 16. 1 | 11-19-56 | ı | D | E4 | 24) | | Casing: 2-in, to 29 ft.; 2-in, screen from 29 to 33 ft. |
| W-49 | G. N. Jernigan | G. N. Jernigan | D | 25 | 11 | Tel | | 19 | **** | Су | D, S | *** | 200 | | |
| W-50 | J. W. Jernigan, Jr. | Etheridge Plumbing Co. | D | 195.0 | 4,2 | Tmu | 211 | 131 | 4-28-55 | Су | D | ** | *90. | + 1, 1 | Casing: 4-in. to 75 ft.; 2-in. from 76 to 185 ft.; 2-in. screen from 186 to 195 ft. |
| W-51 | Raymond Miss | Marcus Blair | D | 555 | 4 | Tg Tm To | 141 | 5 | 355 | J | D | 58 | 820 | *** | Casing: 4-in. to 500 ft.; none balow. |
| W-52 | B. L. Martin | Etheridge Plumbing Co. | D | 105 | 21 | Tmu | 73 | | | F | 3 | 68 | 0 | 74 | Measured flow 11 gpm on 4-6-55. |
| W-53 | W. A. Franklin | W. A. Franklin | D | 23 | 14 | Tmu | 136 | 0-4-4-8 | | Су | D | 660 | 1 | 11 | Casing and screen: 12-in. to 23 ft. |
| W-54 | Edwin Franklin; | O. W. Findley | D | 80 | 2 | Tmu | 107 | 48 | 1951 | J | D | , , | 0 | 7 | Casing: 2-in. to 76 ft.; 2-in. screen from 75 to 60 ft. |
| W-55 | do | do | D | 40 | 2 | Tmu | 99 | -245 | | Су | D | 67 | 1 | 20 | Casing and screen: 2-in. to 40 ft. Water reports to be high in Iron content. |
| W-56 | C. V. Moye | | Д | 67 | 2 | Tmu | 103 | 20 | 452 | J | D | 68 | 1 | 8 | Casing: 2-in. to 62 ft.; 2-in. screen from 62 to 67 ft. |
| W-57 | D. L. Caldwell | C. Holland. | D | 62 | 2 | Tmu | 105 | 53 | 1954 | P | D | 67 | 1 | 8 | |
| W-58 | Hines Realty Co | ************ | D | 246, 8 | 4 | Tc (7) | 103 | 14. 9 | 5-18-57 | C | D | | 1 | 110 | |
| W-59 | B. L. Martin | Etheridge Plumbing Co. | D | 120 | 21 | Tmu | 72 | + 8.9 | 4- 6-55 | | D | 67 | o | 77 | Measured flow 8, 9 gpm on 4-8-55. |
| W-60 | Cosby Hayes | Leon Martin, | 60 | 20 | 14 | Qt | 454.9 | | | Су | D | ** | 16 | 36 | |

Table 4.-Records of wells in Escambia County, Ala.-Continued

| | | | | | | - | | W | ater level | | | Flelo | d deter | minations | |
|------|---------------------|-------------------------------|------|-------------------------|---------------------------|-----------------------|------------------------------------|--|--------------------------|----------------|--------------|---------------------|------------------------|-------------------------------|---|
| Vell | Owner | Driller | Type | Depth of well (feet) | Diameter of well (inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of mess- urement | Method of 11ft | Use of water | Temperature (°F) | Chloride (CI) (ppm) | Hardness as CaCO3 (ppm) | Remarks |
| -61 | J. J. Godwin | J. J. Godwin | 44 | 25 | 1% | Tei | 7.1 | 18 | | J | D | 4(4) | 10 | 40 | |
| -62 | Ned Hale | Ned Hale | D | 22 | 17 | Tcl | | 3 | | P | D, S | * * | | 8 | Casing: 14-in, to 19 ft.; 14-in. screen from 19 to 22 ft. |
| -63 | Walter Lowry | Etheridge Plumbing Co. | D | 225 | 2 | Tmu | 142 | 90 | | P | D | | 2 | 106 | See driller's log. |
| -64 | J. W. Teel | J. W. Teel | 70 | 25 | 2 | Tel | *** | 19 | | 3 | D, S | (4.4) | 7 | 5 | |
| -65 | J. L. Jornigan, Jr. | Etheridge Plumbing Co. | D | 510 | 4 | Tg (?) | 122 | 35 | | J | D | -22 | 4 | 82 | Do. |
| -66 | W. E. Jones | W. E. Jones | | 23 | 14 | Ql | | | | P | D | 88 | 12.30 | *** | |
| -67 | L. M. Congleton | Watson | 4.4 | 30 | 14 | Tci | *** | 0.555.50 | | P | D | | 11 | 18 | |
| -68 | G. A. Carter | | В | 36.0 | 8 | Tci | | 34.0 | 1-23-56 | м | D | 5.4 | | 3.7 | |
| -69 | A. W. Moye | Spillers Well and Pump Co. | D | 60 | 2 | Tci | *** | 30 | 1951 | Су | D, S | 202 | 11 | 24 | |
| -40 | do | Tom Murphy | D | 67 | 2 | Tel | 15.5.5 | 55 | ***** | Cy | D, S | ** | 11 | 12 | Casing: 2-in. to 82 ft.; 2-in. screen from 62 to 67 ft. |
| -71 | A. J. Lister | Etheridge Plumbing | D | 260 | 2 | Tmu | | 200 | 1955 | Су | D, 8 | | 7 | 38 | See driller's log. Water reported to be high in iron content. |
| -72 | Lamar Godwin | | 74 | 57 | 2 | Tci | | | | Су | D | | 7 | 9 | |
| -73 | E. L. Godwin. | Holland | D | 52 | 2 | Tei | | 42 | 1954 | C | D, B | | 14 | 8 | |
| -74 | Callie Lambeth. | Harvey White | D | 22 | 2 | Qt | + + + | 10 | 1947 | * * | D, 8 | | 36 | 29 | |
| -75 | I. B. Chavers | | | 18.1 | 2 | Qt | *** | 15.0 | 11-28-50 | J | D | 12/2 | | 1242 | |
| -76 | Leona Johnson | ***** | | 33 | 2 | Qt | *:* * | 29 | 1955 | J | D | /FE | | 1988 | |
| -77 | J. H. Brantley | Etheridge Plumbing Co. | D | 160 | 2 | Tmu | 170 | **** | | Су | D | 722 | 7 | 42 | Casing: 2-in, to 155 ft.; 2-in, screen from 155 to 180 ft. See driller's log. |
| -78 | E. Nowling | do | D | 220 | 2 | Tmu | 174 | | 4 + 5 + 1 | Су | D, S | (8.4) | 14.4 | 1.4.4 | Casing: 2-in. to 215 ft.; 2-in. screen from 215 to 220 ft. See driller's log. |

| W-79 | P. J. Doucet | do | D | 80 | 2 | Tmu | | | | J | D, B | -54 | 7 | 13 | |
|-------|-----------------------------|---------------------------|------|--------|------|-----|-------|-------|----------|----|------|---------|-------|-------|---|
| W-80 | Alvin Brantley | do , | D | 107 | 2 | Tmu | 169 | 11.64 | | P | D | *21 | 0 | 22 | Casing: 2-in. to 102 ft.; 2-in. screen from 102 to 107 ft. |
| M-81 | Gus Turner | do | D | 212 | | Tmu | 171 | 113 | 1954 | Су | D,S | 12. | 0 | 32 | See driller's log. Water reported to be high in iron content. |
| W-82 | Martin Powell | | 1929 | | | Qt | 2.4.1 | **** | ***** | Су | D | 74 | 43 | 22 | |
| W-83 | H. L. Smith | | ٠ | 33 | 2 | Qt | 150 | **** | | Cy | D | | 11 | | |
| W-84 | J. T. Butler | | 101 | 18,3 | 4 | Qt | | 16.3 | 12-29-55 | J | D, S | *** | 21 | 14 | |
| W-85 | Bert Turner. | Etheridge Plumbing | D | 173 | 2 | Tmu | 151 | 4.4.4 | | Су | D, S | 625 | 11 | 93 | See driller's log. |
| W-86 | G. Newton | do | D | 181 | 2 | Tmu | 155 | **** | | Су | D | | 11 | 54 | |
| W-87 | C. T. Powell | ******* | | 26.9 | 11 | Qt | 134 | 11.3 | 12-29-55 | P | D | | | 13.3 | |
| W-88 | do | C. T. Powell | 440 | 26 | į | Qt | 133 | | | P | D,S | | 7 | 18 | |
| W-89 | do | ******* | D | 108.5 | 2 | Tmu | 133 | 33.0 | 1-24-56 | ** | N | (4) 900 | | | |
| W-90 | E. L. Nowling | Gay Jordon | D | 17.5 | 14 | Qt | 134 | 8, 4 | 1-24-58 | p | D | | 11 | 17 | |
| W-91 | G. E. Newton. | White Brothers | D | 35 | | Tmu | **** | | | Су | N | | 7 | 48 | |
| W-92 | Tom Walton | do | D | 23.5 | 14 | Qt | 115 | 20.2 | 1-24-56 | P | D,B | | 14 | 34 | |
| W-93 | Findley Estate | 44 | J | 130 | 2 | Tmu | 109 | 39 | 2-16-55 | 3 | В | (*)*) | ** | | Casing: 2-in. to 126 ft.; 2-in. screen from 126 |
| W-94 | J. A. Jernigan | | 44 | 45 | 2 | Tmu | | | ***** | J | *** | 4.5 | 12.5 | | |
| W-95 | A. T. Williams | | D | 300 | | Tmu | 87 | +11.0 | 2-10-55 | F | D | 88 | 1 | 88 | Measured flow 2.9 gpm on 2-10-55. |
| W-96 | B. H. Scroggins | B. H. Scroggins | D | 100 | 14 | Tmu | 65 | | 2-10-55 | F | D | 88 | (4/4) | 52 | Flows less than 1 gpm. |
| W-97 | A. C. Congleton | C. Holland | D | 100, 0 | 24 | Tmu | 65 | . 26 | 3-19-57 | | N | | 265 | Teres | |
| W-98 | do | Etheridge Plumbing Co. | D | \$10.0 | 2 1 | Tmu | 65 | +13.3 | 3-19-57 | F | D | 70 | 15.0 | 9.02 | Casing: 2½-in. to 290 ft.; 2½-in. screen from 29 to 310 ft. Measured flow 5.0 gpm on 2-1-55. & driller's log. |
| W-98 | Pollard Holiness Church. | | ** | 29.0 | 11 | Qt | 63 | 3.7 | 3-19-57 | Р | N | 35 | 20 | 135 | |
| W-100 | Lucy Carden | | D | 23.7 | 14 | Qt | | 17.0 | 8-17-56 | P | מ | Œ. | 4. | 5.4.4 | |
| W-101 | Ed Leigh McMillan | | - | | 11/4 | Tmu | 85 | **** | | F | N | 68 | 1 | 73 | Measured flow 2.5 gpm on 2-9-55. |
| W-102 | Gertrude Kelly | | | 100 | 14 | Tmu | 65 | + 1.9 | 2- 7-55 | F | a | 68 | 1 | 64 | |
| V-103 | Lillie Tippins | ******* | 34 | | 11/2 | Tmu | 85 | + 3.3 | 2- 7-55 | F | D | 68 | 1 | 69 | Measured flow 1, 3 gpm on 2-7-55. |
| W-104 | J. W. Kelly Estate | Etheridge Plumbing | D | 105 | 2 | Tmu | 65 | | | P | D | 68 | 0 | 66 | Casing: 2-in. to 100 Rt.; 2-in. screen from 100 |

| | | | | | - | | | Wa | ter level | | | Field | detern | ninations | |
|---------------|----------------------|----------------|-------|-------------------------|---------------------------|-----------------------|------------------------------------|--|--------------------------|----------------|--------------|----------------------|------------------------|-------------------------------|---|
| Well | Owner | Driller | Type | Depth of well (feet) | Diameter of well (Inches) | Water-bearing unit | Allitude of land surface (feet) | Above (+) or below land surface (feet) | Date of mess- urement | Method of Lift | Use of water | Temperature (* F) | Chloride (CI) (ppm) | Hardness as CaCO3 (ppm) | Remarks |
| W-105 | B. H. Scroggins | ******** | E3 | 105 | 11 | Tmu | 85 | + 2,5 | 2-10-55 | F | D | 68 | | 55 | Measured flow 1. 7 gpm on 2-10-55. |
| W-106 | Rufus J. Odom | | 127 | 100 | 1‡ | Tmu | 65 | + 1,7 | 2- 7-55 | F | מ | 68 | 2 | 58 | Measured flow 1, 7 gpm on 2-7-55, |
| W-107 | J. T. Pringle. | ********* | 1.9 | Peter e | 3 | Tmu | 85 | + 5, 2 | 2- 9-55 | F | D | 87 | 0 | 81 | Measured flow 7 gpm on 2-9-55. |
| W-108 | Findley Estate | ****** | 2:0 | 22, 5 | 14 | Tmu | 65 | 9.4 | 2-10-55 | P | N | 190 | 4.4 | | |
| W-109 | Town of Pollard | | D | 600 | :8 | Tg Tm To | 65 | +64.5 | 2-10-55 | F | P | 72 | 4 | 51 | Flow could not be measured. Supplies several families. |
| *W-110 | E. T. Arrant | Fred Arrant | 160 | 74 | 14 | Tmu | 61 | + 5.8 | 2-11-55 | r | D | 68 | 2.0 | *** | Measured flow 10.7 gpm on 2-11-55. |
| W -111 | W. J. Arrent | W. J. Arrant. | | 76 | 14 | Tmu | 66 | + 2.7 | 2-10-55 | F | D | 68 | 1 | 70 | Measured flow 7.5 gpm on 2-10-55. |
| W~112 | C. W. Arrant | C. W. Arrant. | 14.4 | 165 | 11 | Tmu | 66 | + 1.8 | 2-11-55 | F | D | 67 | 1 | 89 | Flow less than 1 gpm on 2-11-55. |
| W-113 | do | ********** | | 41.5 | 14 | Tmu | 66 | 1.0 | 2-11-55 | C | D | | eec | 1.41 | |
| W-114 | Edith Tolliver | | 264 | 28, 6 | 14 | Qt | 66 | 8,7 | 3- 2-55 | p | D | 68 | 4 | 8 | |
| W-115 | Stella Walker | ****** | * * | 35 | 2 | Tmu | 69 | 15 | | P | D | | 4 | 14 | Casing and screen: 2-in. to 35 ft. |
| W-116 | Leigh Williams | | | 0.00 | 21 | Tmu | 69 | +15, 7 | 2-11-55 | F | D | 71 | 2 | 62 | Measured flow 8.0 gpm on 2-11-55. |
| W-117 | Grady Carden | D. Elliott | D | 52 | 2 | Tmu | *** | 41 | 555 | J | D | 2.9 | 2 | 5 | Casing: 2-ln, to 49 ft, ; 2-in. screen from 49 t 52 ft. |
| W-118 | Methodist Church | *********** | Date | 400 | 14 | Tmu | 84 | + 1, 0 | 2- 9-55 | ¥ | N | 67 | o | 38 | Measured flow 1. 5 gpm on 2-9-55. |
| •₩-110 | G. S. Vinson | ********** | 34.40 | 163,0 | 14 | Tmu | 65 | + 1, 1 | 2-10-55 | C, F | D | 69 | 1.4 | 49.2 | |
| ₩-120 | Queen Dunn | | 44 | 95.0 | 14 | Tmu | 64 | + 2, 9 | 2- 9-55 | C, F | D | 87 | .0 | 48 | Measured flow 2, 5 gpm on 2-8-55, |
| W-121 | L. J. Baggett. | L. J. Baggett. | 383 | 20. 3 | 14 | QL | 65 | 14.0 | 2- 9-55 | P | D | 65 | 0 | 5 | |
| ₩-122 | Bessle Fitzgerald. ; | ********** | | 100 | 2 | Tmu | 65 | + 1,7 | 2- 9-55 | F | N | 69 | 0 | 49 | Flow less than 1 gpm on 2-9-55. Leaks around casing. |
| W-123 | W. A. Adams. | | (4)4) | 68.0 | 14 | Tmu | 65 | + 2.0 | 2- 8-55 | C, F | D | 68 | 1 | 48 | Estimated flow 2 gpm on 2-8-55. |
| ₩-124 | Rufus White | | .55 | 85 | 14 | Tmu | 65 | + 2, 0 | 2- 8-55 | F | N | 68 | 2 | 68 | Measured flow I gpm on 2-8-55, |

.

| W-125 | Ellen Kelly | eren erenen eren. | 20 | 105 | 14 | Tmu | 65 | + 3.3 | 2- 9-55 | C, F | D | 68 | 1 | 68 | Measured flow 1. 7 gpm on 2-9-55. |
|-------|---------------------------------------|---------------------------|------|------|------|---|------|--------|----------|------|------|------|-------|-------|---|
| W-128 | J. L. Jernigan. | | | 800 | 8 | Tg Tm To Ty Tmb Tgo Tl (?) | 62 | +57, 0 | 2-10-55 | F | P | 74 | ** | (***) | |
| W-127 | Archie Odom | *********** | 553 | 94.0 | 14 | Tmu | 85 | + 3.2 | 2- 8-55 | F | N | 68 | 1 | 68 | Measured flow 5.0 gpm on 2-8-55, |
| W-128 | J. G. Kelly | | | 100 | 14 | Tmu | 85 | + 2, 2 | 2- 8-55 | F | N | 67 | | 86 | Flow less than 1 gpm on 2-8-55. |
| W-129 | St. Peter Baptist Church. | | 2.50 | 19.3 | 14 | Qt | 85 | 14.0 | 2- 9-55 | C | D | | 14/41 | | |
| W-130 | Alonzo Samuals | | 14 | 28 | 14 | Qt | 85 | 25 | | C | D | 445 | 1. | в | Casing: 12-in. to 25 ft; 12-in. screen from 25 t 28 ft. |
| W-131 | Lelah Sowell | Charlie Sowell | | 85 | 11 | Tmu | 62 | + 3.0 | 2- 9-55 | F | D | | 1 | 52 | Leaks around casing. |
| W-132 | Escambia County Board of Education | Etheridge Flumbing Co. | D | 100 | 4 | Tmu | 81 | +10.1 | 5-10-57 | F | P | +- | ** | *** | Measured flow 60.0 gpm on 5-10-57. Supplies school. |
| W-133 | Thomas Monroe | | 741 | 48 | 14 | Tmu | 1111 | 15 | 177777 | P | D | 67 | 11 | 16 | |
| W-134 | W. B. Husky | *********** | | 200 | 14 | Tmu | 62 | + 4.3 | 2-11-55 | C, F | D | 69 | 4 | 49 | Measured flow 5. 0 gpm on 2-11-55. |
| W-135 | do | | 42 | 48.0 | 142 | Tmu | 59 | | | | | 4.4 | (4: # | + + + | |
| W-136 | Troy Brannon | Etheridge Plumbing Co. | D | 420 | *(*) | 1201 | *** | **** | 2.2.2.2 | | c | | 2.5 | *** | Test hole. See driller's log. |
| W-137 | R. C. Carden. | R. C. Carden | Dr | 22 | 11 | Qt | | 10 | 1947 | C | D | 8.2 | 0 | 7 | Casing: 1½-in. to 19 ft.; 1½-in, screen from 19 to 22 ft. |
| ₩-138 | O. H. Carden. | H. Barrentine | D | 23 | 2 | Qt | | | | P | D | | 1 | 19 | Casing: 2-in, to 19 ft.; 2-in. screen from 19 to 23 ft. |
| M-138 | E. Martin | | В | 60 | 0 | Tmu | *** | | | 1 | p | ** | 9 | 15 | Supplies cale and motel. |
| W-140 | H. C. Barnes | Etheridge Plumbing Co. | D | 157 | 3 | Tmu | 110 | | | 1 | P | 120 | 1 | 92 | Casing: 3-in. to 147 ft.; 3-in, screen from 147 ft.; 5-in, screen from 147 ft. See driller's log. Supplies motel. |
| W-141 | , do | H. C. Barnes | D | 138 | 2 | Tmu | 112 | 18 | 1950 | J | Irr | 10.0 | . *(* | ga. | Casing and screen: 2-in, to 138 ft. |
| W-142 | Ellis Graves | | | 16.5 | 14 | Qt | 113 | 13.6 | 12-29-55 | P | D | | 35 | 34 | |
| W-143 | Charles Lambeth | C. Holland, | D | 100 | | Tmu | 107 | **** | 1127.22 | 3 | D | 100 | 11 | 82 | |
| W-144 | C. A. Reaves | A. McCurdy. | В | 58 | 8 | Tmu | 131 | 5110 | | J | D, 8 | | 2 | 7 | 1 |
| W-145 | Jess McCurdy | *********** | | *** | 6 | Tmu | 183 | | | Су | D | 69 | 16.6 | 7 | |
| K- 1 | E. L. Golden | Etheridge Plumbing Co. | D | 80 | 2 | Tel | 252 | 70 | 1952 | Су | D | 4.7 | 0 | 13 | Casing: 2-in, to 75 (t.; 2-in, screen from 75 to 80 ft. See driller's log. |
| K- 2 | J. B. Golden | C. Holland. | D | 103 | 2 | Tel | 245 | no. | 1953 | Су | D, B | | 5 | 10 | |

Table 4.-Records of wells in Escambia County, Ala.-Continued

| | | | | | - | | | Wa | ter level | | | Field | detern | linations | |
|------|---------------------|---------------------------|------|-------------------------|------------------------------|-----------------------|------------------------------------|--|--------------------------|----------------|--------------|----------------------|------------------------|-------------------------------|---|
| Well | Owner | Driller | Туре | Depth of well (feet) | Diameter of well (inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land aurface (feet) | Date of meas- urement | Method of Lift | Use of water | Temperature (* F) | Chloride (Cl) (ppm) | Hardness as CaCO3 (ppm) | Remarks |
| X- 3 | W. R. Macks | Etheridge Plumbing Co. | D | 90 | 2 | Tel | | 71 | 1951 | Су | D | | 1 | 7 | |
| X- 4 | A. L. Morris, | | מ | | 2 | Tel | | **** | 15414 | J | D, S | - | ** | 849 | |
| K- 5 | R. A. Smith | | Dr | 20. 2 | 11/2 | Tel | | 11.7 | 3-20-56 | P | D | | | 553 | |
| K- 6 | James Boutwell | | D | 35 | 2 | Tei | | | | J | D | +:+ | 18 | 38 | |
| K- 7 | Burnace Lambeth , , | Etheridge Plumbing Co. | D | 60 | 21 | Tcl | 243 | | 1010000 | J | ם | | 101 | 1,11 | |
| K- 8 | H. Boutwell | H. Boutwell | В | 48 | 8 | Tel | | 41.0 | 2- 7-58 | M | D, S | 30 | 24 | 100 | |
| K- 9 | Sidney Boutwell | Etheridge Plumbing Co. | D | 70 | 2 | Tcl | 236 | **** | ****** | J | D | | | 10.00 | Casing: 2-in. to 65 ft.; 2-in. screen from 65 to 70 ft. See driller's log. |
| C-10 | C. G. Boutwell | do | D | | 2 | Tel | 232 | | | Cy | D, B | 17.5 | | 555 | |
| K-11 | T. M. Lambeth | T. M. Lambeth | Du | 28 | | Tel | 229 | 20.9 | 2- 7-56 | P | D, B | 1.4 | | 1.4.4 | |
| K-12 | S. M. Burkett | Etheridge Plumbing Co. | D | 88 | 2 | Tci | 216 | **** | | Су | D | 122 | | *** | Casing: 2-in. to 83 ft.; 2-in. screen from 83 to 88 ft. See driller's log. |
| K-13 | F. W. Lambeth | | В | 65 | | Tcl | 197 | 30 | 1944 | J | D, 8 | 1.4 | 100 | 15 | |
| C-14 | Jeff Emmons | Etheridge Plumbing | D | 105 | 2 | Tcl | 250 | 1111 | | Су | D | | 1,414 | 10 | |
| K-15 | F. J. Knowles | *********** | В | 60 | В | Tel | | 54.8 | 3-26-56 | М | D | 2.5 | 1.5 | 101 | |
| K-16 | do | Etheridge Plumbing Co. | מ | 74 | 21/2 | Tel | 244 | **** | | Су | D,S | ** | | 2.12 | See driller's log. |
| K-17 | S, E, Emmons | S. E. Emmons | J | 85. 0 | 8 | Tei | 255 | 83.2 | 2- 8-56 | M | D,S | | ** | *** | |
| C-18 | , do , | Etheridge Plumbing Co. | D | 100 | 2 | Tei | 4.474 | **** | | Су | D, S | ** | 14(4) | 272 | Casing: 2-in, to 95 ft.; 2-in, screen from 95 to 100 ft. See driller's log. |
| 2-19 | J. B. Golden | do , | D | 128 | 4 | Tci | 151 | 99 | 255 | J | Irr | | 1 | .0 | Casing: 4-in. to 98 ft.; 4-in, acreen from 98 to 128 ft. See driller's log. |
| K-20 | C. Majors | do | D | 84 | | Tci | | 73 | 1954 | 3 | D | | 2 | 22 | |

| X-21 | Hammoc Estate | | D | 92 | 2 | Tei | 4.4.1 | 23.53 | | Cy | D | 155 | 2 | 24 | |
|--------------|------------------------------------|---------------------------|-----|-------|------|-----|-------|---------|----------|----|------|-------|-----|---------|---|
| X-22 | R. S. Hammoc | | в | 65.2 | 71/2 | Tei | | 62.8 | 12-15-55 | м | D,8 | 4.4 | 11 | | |
| X-23 | Solomon Hammoc | Etheridge Plumbing Co. | D | 110 | 2 | Tel | 219 | 5888 | 11555 | Су | D | 10 | 0 | 20 | Casing: 2-in. to 105 ft.; 2-in, screen from 105 to 110 ft. See driller's log. |
| X-24 | John Strength | Windham Pump Co | D | 90 | | Tel | 220 | | | Cy | D, B | 68 | 0 | 14 | |
| X-25 | R. W. Strength | | D | 84 | 2 | Tci | 226 | | 11511 | Сy | D, S | 禁 | 2 | 12 | Casing: 2-in, to 79 ft.; 2-in, screen from 79 to 84 ft. |
| X-26 | Virginia Lee Johnson | C. Holland | D | 99 | 2 | Tmu | 171 | 59 | 1952 | Су | D, S | 9.8 | 1 | 10 | |
| X-27 | Riley Johnson, | , , . , do , | n | 100 | 2 | Tmu | | | | Су | D, S | 4.0 | 1 | 14 | |
| X-28 | Riley McCurdy | | 5.0 | | 1.1 | Tcl | | | | Су | D | 68 | 4 | 8 | |
| X-29 | Lorena White | | 44 | 27 | iii | Tel | 1.4.4 | 19 | 1955 | С | D | 71 | 25 | 6 | |
| X-30 | J. E. Mize | | D | 51.4 | 2 | Tel | 233 | 46. 5 | 12-28-55 | J | D, B | *(*) | 11 | 14 | |
| X-31 | J. A. Knowles | J. A. Knowles | В | 23 | В | Tmu | 144 | 10.1 | 2- 6-56 | J | D, S | * * * | 200 | *** | |
| X-32 | I. E. Knowles | I. E. Knowles | В | 40 | В | Tmu | | 16 | 2- 6-56 | P | D | | 200 | .11 | |
| X-33 | P. M. Lambeth | P. M. Lambeth | В | 40 | 2 | Tel | 162 | 29 | 1955 | J | D, B | | 200 | (6.4.6) | |
| X-34 | Aubrey Sapp | Aubrey Sapp | Dr | 22 | 14 | Qt | 129 | 12 | 100000 | | D | 127 | 11 | 8 | |
| X-35 | S. E. Manning | Gene Godwin | В | 22 | 2 | Qt | +++ | 16 | 1955 | Су | D, B | *** | 200 | 5000 | |
| X-36 | Pony White | | J | 65 | | Tel | | **** | | М | D, B | 64 | 7 | 16 | |
| X-37 | J. L. Mize | | D | 57 | 2 | Tei | 223 | * * * * | | J | D, 8 | ** | 14 | 15 | Casing: 2-in, to 52 ft.; 2-in, screen from 52 to 57 ft. |
| X-38 | Allen Henderson | C. Holland | D | 60 | 2 | Tei | | 40 | | Су | D,S | 2.51 | 7 | 7 | |
| X-39 | W. R. Odom | Etheridge Plumbing Co. | α | 65 | 2 | Tci | 217 | 54 | 1952 | J | D, S | * * | 11 | | Casing: 2-in. to 60 ft.; 2-in. screen from 80 to 65 ft. See driller's log. |
| X-40 | Jessie Watkins | Windham Pump Co | D | 85 | | Tel | | 55 | 1954 | J | D | ** | 11 | 20 | |
| X-41 | Ernest Emmons | Etheridge Plumbing Co. | D | 74.0 | 4 | Tci | 229 | 50, 3 | 5-18-57 | 1 | D | 11 | 2 | 12 | Observation well. See driller's log. |
| X-42 | McCurdy | McCurdy & Odom , | D | 65 | | Tcl | 122 | 54 | 1953 | Су | D | 68 | 7 | 9 | |
| X-43 | Little Escambia Baptist Church. | Etheridge Plumbing Co. | D | 72 | 2 | Tei | 226 | A555 | ***** | 3 | D | 20 | 2 | 16 | |
| X-44 | F. C. Phillips | Duke Brown | * 4 | 50 | 2 | Tcl | | | | J | D | - 4 | 2 | 14 | |
| X-45 | Gay Jordon | C. Holland, | D | 40 | 2 | Tci | | | | J | D | | 1 | 21 | |
| x-4 6 | L. W. Jordon | Etheridge Plumbing Co. | D | 150 | 11 | Tmu | 216 | | | Су | D | 14 | 4 | 77 | Casing: 2-in. to 145 ft.; 2-in, screen from 145 ft. See driller's log. |
| X-47 | Gladys Beasley | Harvey and Joe White. | В | 45. 1 | 0 | Tel | 228 | 41.0 | 12-16-55 | м | D | | ** | | |

Table 4,-Records of wells in Escambia County, Ala.-Continued

| | | | - 2 | | - | | | W | ater level | | | Fiel | d deter | minations | |
|--------------|------------------|---------------------------|------|-------------------------|------------------------------|-----------------------|------------------------------------|--|--------------------------|----------------|--------------|----------------------|------------------------|---|---|
| Well | Owner | Driller | Type | Depth of well (feat) | Diameter of well (inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of meas- urement | Method of 11ft | Use of water | Temperature (* F) | Chloride (Cl) (ppm) | Hardness as CaCO ₃ (ppm) | Remarks |
| X-48 | R. W. Jordon | C. Holland | | 65 | 1.00 | Tei | | | | J | D | 12/2 | | 144 | |
| X-49 | D. E. Jordon . | Harvey and Jos White. | D | 58 | ** | Tei | 17.0 | **** | **** | J | D | 98 | | 1.00 | |
| X-50 | A. R. Coleman. | | 4.0 | 55 | 2 | Tel | | | | J | D | | 2 | 10 | |
| X-51 | Todd Ward. | Etheridge Plumbing Co. | D | 222 | 2 | Tmu | 228 | 172 | | | D | ** | 0 | 16 | |
| X-52 | do, | C. Holland | D | 117 | 2 | Tmu | 243 | 172 | 1955 | J | D, S | 68 | 2 | 7 | |
| X-53 | Martin Powell | | D | 35 | 2 | Qt | | 25 | 1954 | J | D, B | 4.4 | 4 | 6 | |
| K-84 | O. A. Fletcher, | F. W. Draper | **: | 55 | 2 | Tmu | | 38 · · · 80 | ***** | p | מ | | 2 | 10 | |
| X -55 | Bid McDavid | C. Holland | D | 72 | 2 | Tmu | 110 | 27 | 1955 | J | D | 70 | 1 | 5 | Casing: 2-in, to 88 ft, ; 2-in, screen from 68 to 72 ft. |
| X-58 | R. J. Bush | Etheridge Plumbing Co. | D | 40 | 2 | Qt | 92 | 28 | 1955 | J | D | . • • | 0 | 18 | Cusing: 2-in. to 35 ft.; 2-in, screen from 35 to 40 ft. See driller's log. |
| X-57 | Henry Morris | Flowers | D | 42 | 2 | Qt | *** | 34 | 1954 | J | D | * * | 155 | | Casing: 2-in. to 37 ft.; 2-in. screen from 37 to 42 ft. |
| X-58 | R. J. Bush | C. Bolland, | ם | 84 | 2 | Tmu | Tue | 40 | 1953 | J | D | | 1 | 10 | |
| X-59 | J. H. Carroll | ***** | 200 | 100 | ** | Tmu | +++ | | 4 + 9 + 4 + | Cy | D | 100 | 1 | 9 | |
| K-60 | Powell's Cafe | Etheridge Plumbing Co. | D | 170 | 2 | Tmu | 162 | | | Cy | D, P | ** | 1 | 15 | Casing: 2-in, to 165 ft.; 2-in, screen from 165 to 170 ft. See driller's log. |
| K-61 | do | | D | 150 | 2 | Tmu | | 100 | 1945 | Су | N | | | *** | |
| K-62 | James Hart | C. Holland | D | 180 | 2 | Tmu | 1.1.1 | | | Cy | D | | 0 | 12 | |
| X-63 | Edward Findley | Windham Pump Co | D | 100 | 2 | Tmu | 0.474 | 70 | 1955 | Су | D | (4.4) | 0 | 15 | |
| K-64 | James Hart | C. Holland | D | 187 | 2 | Tmu | 165 | 87 | 1953 | Су | D, B | ** | 0 | 11 | |
| X-85 | do | | | 22, 6 | 14 | Tmu | 164 | 13.0 | 8-26-55 | P | D | 70 | 0 | 8 | |
| K-88 | Clyde Van Hoosen | C. Holiand. | | 30.1 | 14 | Tel | 174 | 17.8 | 8-26-55 | P | D | 68 | 1.1 | 18 | |

| K-87 | do | ****** | B | 16.3 | 14 | Tel | 184 | 6,6 | 8-10-56 | P | D | 71 | 7 | 16 | |
|--------------|----------------------------------|----------------------------|------|------|----|-----|-------|-------|---|----|------|------------|-------|-----------|---|
| K-68 | Frank Benele, | C. Holland. | D | 47 | 2 | Tel | | 30 | 1953 | Cy | D, S | 353 | 2 | a | |
| X-69 | Clyde Van Hoosen | *** * * do * * * * * * * * | D | 51 | 4 | Tci | 206 | 30 | *(*,*,*,*,*,*,*,*,*,*,*,*,*,*,*,*,*,*,* | Су | D, P | 10- | 14 | 30 | Casing: 4-in. to 45 ft.; 4-in. screen from 45 to 51 ft. |
| x-7 0 | do | do | D | 51 | 2 | Tel | 444 | 31 | 1955 | Су | D, P | 140 | 4.4 | (e, 6-5). | Casing: 2-in. to 48 ft.; 2-in. screen from 48 to 51 ft. |
| X-71 | Melvin Van Hoosen . | do | D | 50 | 2 | Tel | 10.0 | 13334 | | Су | D | 695 | 4 | 18 | |
| X-72 | D. D. Arrington. , . | Etheridge Plumbing Co. | D | 47 | 2 | Tei | | 12.00 | ***** | J | D | 220 | 1 | 17 | |
| X-73 | do | Warrick | D | 47 | 2 | Tel | *** | | | Су | D | 200 | 2 | 11 | |
| X-74 | Nolin's Service Station. | Windham Pump Co | D | 165 | 2 | Tmu | 108 | 9-4 | 1954 | 1 | D | **! | 1 | 21 | |
| K-75 | W. C. Bell | C. Holland | D | 172 | 2 | Tmu | *,*,* | 111 | 2-14-56 | C | D | | 14 | 24 | |
| X-78 | B. Roberson and Mary Burkett, | Etheridge Flumbing Co. | D | 68 | 2 | Tmu | 193 | | **** | 3 | D | 121 | 7 | 10 | |
| X-77 | Early Watkins | Early Watkins | 454 | 25.3 | 14 | Qt | 513 | 16, 4 | 2-16-55 | P | D | | 11 | 6 | |
| X-78 | Ovis White | | 14 | 107 | 2 | Tmu | 274 | 32 | 12- +55 | J. | D | | ¥(X) | 21 | |
| X-79 | B. N. White, Jr | C. Holland | J | 28 | 2 | Qt | 133 | 20 | 1951 | J | D | | 200 | | |
| X-80 | Velma Rigsby | Lambeth | 42 | 25 | 14 | Qt | | **** | | J | D | $u(\phi).$ | 14 | 10 | |
| X-81 | B. N. White | C. Holland | J | 30 | 2 | Qt | | 20 | 1951 | Су | D, S | 2.50 | 11 | 10 | |
| X-82 | Henry White | Henry White | 1720 | 18 | 14 | Qt | | | | P | D | 14.45 | 10 | 29 | |
| X-83 | C. M. Davis | C. M. Davis | D | 38 | 14 | Qt | | 9,8 | 2-18-56 | | D, B | (2) 533 | 11 | 18 | |
| X-84 | H. S. Crutchfield | Crutchtield and Gandy | В | 63 | | Tmu | | | | J | D, B | 9.85 | 100 | | |
| X-85 | J. D. Barrow | Wafford, | J | 82 | 2 | Tmu | *)*:: | 20 | 1945 | | D, S | 67 | 7 | 16 | |
| X-86 | Robert O. Fore | Green | D | 55 | 2 | Tmu | -: | **** | 121112 | J | D | 1.4 | * * | 9.11 | |
| X-87 | C. A. Sheffeld | C. Holland | D | 175 | 2 | Tmu | 117 | 45 | 12- 1-56 | J | D | 5.53 | 7 | 17 | |
| X-88 | Lesmond F. Kelly. | do | D | 38 | 2 | Tmu | | 28 | * * * * * * | J | D | 4.4 | 28 | 5 | |
| X-89 | W. F. Killam | do | D | 70 | 2 | Tmu | 134 | 60 | ***** | J | D | 2.2 | (7)73 | | |
| X-80 | E. L. Johnson | do | D | 48 | 2 | Tei | . + 4 | 36 | 1955 | Су | D | 4/4 | 7 | 10 | |
| X-91 | Otto Matheny | Etheridge Plumbing Co. | D | 80 | 2 | Tei | * * * | 67 | ***** | J | D, S | 2.7 | 1.7 | 1214 | |
| X-92 | H. Jerkins, | R. Bell | D | 140 | 2 | Tei | | 100 | | Су | D | 122 | 50 | 111 | |
| X-93 | Sue Dyess | C. Holland | D | 97 | 2 | Tci | 238 | 83 | 4 4 9 7 7 9 | Су | D | 71 | 7 | 24 | |

Table 4.-Records of wells in Escambia County, Ala.-Continued

| - | | | | | 10 | | | We | ter level | | | Field | deterr | minations | |
|-------|-------------------------------------|-------------------------------|------|-------------------------|------------------------------|-----------------------|------------------------------------|--|--------------------------|----------------|--------------|----------------------|------------------------|---|--|
| Well | Owner | Driller | Type | Depth of well (feet) | Diameter of well (inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of meas- urement | Method of 11ft | Use of water | Temperature (° F) | Chloride (Cl) (ppm) | Hardness as CaCO ₃ (ppm) | Remarks |
| X-94 | O. B. and Eunice Bell. | O. B. and Eunice Ball | 249 | 32 | 3 | Tei | 441 | 25 | 1951 | J. | D | 71 | 7 | 18 | |
| X-95 | Lige Walker | Lige Walker | Dr | 21, 1 | 14 | Tmu | 122 | 15, 7 | 8- 9-56 | P | D | 69 | 145 | 96 | |
| K-96 | T. A. Newton | T. A. Newton , | В | 222 | 100 | Tmu | | | | P | D | | . 7 | 12 | |
| X-97 | W. K. Dean | C. Holiand | D | 152 | 2 | Tmu | 117 | 50 | extern. | 1 | D | 4.4 | * (6.) | | |
| K-98 | S. L. Dean | Patrick Plumbing Co. | D | 47 | 2 | Tmu | | 33 | -200 | J | D | | | | |
| K-99 | W. L. Kline | Gray Artesian Well Co. | D | 150 | 4 | Tmu | +4.1 | 50 | ***** | J | D | v = | */* | (9.9) | |
| C-100 | J. T. Pureloy , | E, Kearley | D | 260 | 4 | Tmu | 125 | 3535 | **** | * * . | N | | 2.5 | *** | |
| X-101 | do | D. C. Green | D | 100 | 2 | Tmu | 125 | 1401 | | J | D | | т | 48 | |
| X-102 | Escambla Ready Mix Concrete Co. | Spillers | D | 165 | 6 | Tmu | 103 | 50 | ****** | 1 | D, Ind | ** | 11 | 14 | |
| X-103 | L. D. Weaver | do | D | 300 | 4 | Tmu | 4.8.4 | | | J | Ind | 10 | | *** | |
| C-104 | Webb Bell | | 40.0 | 13.8 | 14 | Qt | 47414 | 5. 1 | 8- 9-56 | P | D | | + + | * * * | |
| X-105 | Henderson Ready Mix Concrete Co. | C. Holland | D | 14 | 2 | Qul | *** | 4 | | J | Ind | ** | 4.0 | *** | Reported to have been pumped at rate of 4,000 gallons per day. |
| X-106 | City of Flomaton | Spellers Well and Pump Co. | D | 143 | 10 | Tmu | 73 | 17 | 9-10-52 | T | P | *.* | 124 | *** | Casing: 10-in, to 102 ft.; 8-in. screen from 102 to 143 ft. Reported drawdown 15.0 ft. after pumping 780 gpm for 1 hour. See driller's log of test hole drilled to depth of 185 ft. |
| K-107 | do | Gray Artesian Well Co. | ם | 148 | 10,8 | Tmu | 72 | 1911 | | т | P | 66 | *** | 4.4% | Casing: 10-in. to 38 ft.; 8-in. from 36 to 118 ft.; 8-in. screen from 116 to 148 ft. See driller's log of test hole drilled to depth of 159 ft. Report- edly pumped at 350 gpm in 1945. |
| K-108 | Harvey J. Odom | ********* | D | 68.2 | 2 | Tmu | 95 | 8.0 | 8-10-56 | | D | | 2.5 | 1335 | |
| C+100 | | Fanny Mack | 23 | 26.0 | 11 | Qul | 100 | 18.3 | 8-10-56 | p | D | 69 | 141 | 23 | |
| C-110 | Charles Fore | Johnson | - | 42 | 2 | Tmu | 116 | 1111111 | ***** | J | D,S | | 11 | 8 | |

| K-111 | T. H. Pugh | | 9.0 | 18 | 2 | Qt | 1.1.1 | 18 | 11500 | p | D | 4.0 | | 5.5.5 | |
|-------|-----------------|---|-----|-------|----|-----|-------|---------|---------|----|------|--------|-------|-------|--|
| K-112 | E. Johnson | ********** | 3 | 77 | 2 | Tmu | .11 | 37 | 1954 | Су | D | 67 | 14 | 11 | |
| K-113 | L. H. Crosby | L. H. Crosby. | В | 19 | 14 | Qt | 96 | 13 | 1954 | P | D | 2.50 | 12.7 | | |
| K-114 | L. E. Mitchell | L, E. Mitchell | n | 37 | 2 | Qt | | 20 | ***** | P | D | | 2(4) | 7.50 | |
| €-115 | S. L. Steely | 1 | | 85 | 2 | Tmu | * * * | **** | ***** | Су | D, S | | | | |
| C-116 | do, , , , | | В | 17.0 | 8 | Qt | 109 | 7.2 | 4-30-56 | P | D | 65 | 67 | 9 | |
| Y- 1 | Albert Chancery | Etheridge Plumbing Co. | D | 120 | 2 | Tel | 278 | 20 | 1953 | J | D, S | (5)(5) | 11 | 22 | |
| Y- 2 | Roy T. Daw | Rufus Bell | D | 55 | 2 | Tci | 262 | 42 | 1953 | J | D | 67 | 7 | 8 | |
| Y-3 | Marion Daw | do | D | 65 | 2 | Tel | | | | ı | ם | 0.0 | 11.5 | 1111 | |
| Y- 4 | Albert Philyaw | L, W. Peebles | D | 120 | 2 | Tcl | 278 | 104 | 3- 1-56 | J | D | 2.5 | 14/4 | 1000 | Casing and screen: 2-in, to 120 ft, |
| ľ- 5 | O. U. Waring | O. U. Waring | D | 121 | 2 | Tcl | 276 | 85 | 1955 | Cy | D, S | 67 | 11 | 6 | Casing and screen: 2-in. to 121 ft. |
| ř- 6 | D. C. Troutman | D. C. Troutman | D | 65 | 2 | Tci | | 52 | 1940 | Cy | D | | 142 | *** | Caming: 2-in, to 61 ft.; 2-in, screen from 61 to 65 ft. |
| r- 7 | W. J. Baker | Etheridge Plumbing | D | 70 | 3 | Tcl | 279 | | ***** | J | D | 69 | 11 | 8 | Casing and screen: 2-in. to 70 ft. |
| r- 8 | G. J. Turner | G. J. Turner | В | 60, 2 | 9 | Tci | 280 | 55.0 | 5- 1-56 | M | D | 69 | 18 | 12 | |
| 7- 9 | D. C. Hall | ************ | D | 88 | 2 | Tel | | 42 | 1954 | Су | D | 40 | 144 | 1111 | Casing and screen: 2-in, to 86 ft. |
| ľ-10 | G. H. Forte | Etheridge Plumbing Co. | D | 60 | 2 | Tel | 283 | 28 | 1947 | J | D, S | 30.00 | 7 | 1.55 | Casing and screen: 3-in, to 60 ft. |
| r-11 | Alfred Moye | do | D | 120 | 2 | Tei | 273 | **** | ****** | Су | D, B | 15.7 | .0.4 | 100 | Casing and screen: 2-in, to 120 ft. See driller's log. |
| ₹-12 | Ollie Moye, | do | D | 110 | 2 | Tel | 265 | | min | Су | D, S | 354 | 244 | 474 | Casing: 2-in, to 105 ft.; 2-in, screen from 105 (|
| 7-13 | T. A. Daw | | D | 104 | 2: | Tcl | | 49 | 1920 | Су | D | | 11.0 | 200 | |
| 7-14 | Albert Phillynw | ****** | D | 108 | 2 | Tei | | 90 | 1952 | Су | D, B | | 7 | 6 | Casing and screen: 2-in. to 108 ft. |
| r-15 | W. A. Moye | Etheridge Plumbing Co. | D | 110 | 2 | Tel | 271 | 4.4.4.4 | ***** | Су | D, S | -4°# | (4)4 | | Casing and screen: 2-in, to 110 ft. |
| -18 | G. W. Moye | Rufus Bell | D | 86 | 2 | Tmu | | | ***** | Cy | D | 100 | 10.00 | 100 | |
| 7-17 | W. A. Moye | Etheridge Plumbing Co. | D | 96 | 2 | Tmu | | | ,,,,,,, | Су | D | ** | 100 | Big. | Casing and screen: 2-in, to 96 ft. |
| 7-19 | Meddle Moye | Meddle Moye | В | 45.0 | | Tmu | | 37.0 | 4-11-50 | м | D | 100 | 100 | * 1 4 | |
| -19 | Ellis Moye, | C. Holland | J | 42 | 2 | Tmu | 1.53 | 28, 2 | 2- 7-56 | J | D, 8 | 050 | 11 | 12 | |
| r-20 | C. J. Boutwell | | В | 31.0 | E | Tel | 234 | 28, 0 | 3-20-56 | M | D | 44 | 10 | 63.3 | See driller's log of test hole drilled to depth of 240 ft. |

Table 4.-Records of wells in Escambia County, Ala.-Continued

| | | | | | _ | | | Wa | ter level | | | Field | detern | inutions | |
|-------|---|---------------------------|------|-------------------------|------------------------------|-----------------------|------------------------------------|--|--------------------------|----------------|--------------|----------------------|------------------------|---|--|
| Well | Owner | Driller | Type | Depth of well (feet) | Diameter of well (inches) | Water-bearing unit | Allitude of land surface (feet) | Above (+) or below land surface (feet) | Date of mess- urement | Method of 11ft | Use of water | Temperature (* F) | Chloride (Cl) (ppm) | Hardness as CaCO ₃ (ppm) | Remarks |
| Y-21 | Mae Flowers | | 44 | 43 | 14 | Tci | | 27 | 1953 | P | D | (4.2) | oi i | 1111 | |
| Y-32 | J. E. Rowell | Rufus Bell | D | 85 | 2 | Tei | | 2000E | | 1 | D, S | ** | 25.5 | 1-1-0 | Casing and screen; 2-in, to 65 ft. |
| *Y-23 | W. R. Farrar | do | D | 82 | 21/2 | Tel | 288 | 80 | 1953 | J: | D, S | /4/41 | 50.0 | 5249 | Casing: $2\frac{1}{2}$ -in, to 72 ft, ; $2\frac{1}{2}$ -in, screen from 72 to 82 ft. Supplies dairy. |
| Y-24 | J. Z. Miles | do | В | 52, 7 | 8 | Tei | 257 | 40.1 | 4-18-56 | м | D | 4.4 | 7 | 8 | |
| Y-25 | W. E. Strickland | Rufus Bell | D | 92 | 2 | Tel | 289 | 62 | 1954 | Су | D,S | 70 | 7 | 4 | Casing and screen: 2-in, to 92 ft, Supplies 90 hogs and 8 cows. |
| ¥-26 | M. W. Graham | do | D | 96 | 2 | Tci | 284 | 36 | 1938 | J | D | 69 | 7 | Đ. | Casing and screen: 2-in. to 96 ft. |
| Y-27 | W. E. Lowrey | *********** | D | 46.5 | 2 | Tci | 285 | 39. 4 | 4-26-58 | 3 | D | 1.1 | | *** | |
| Y-28 | G. C. Stallworth | Zerrenesser | 170 | 50 | 2 | Tel | | 33 | | Cy | D | 199 | | 4.9.4 | |
| Y-29 | W. M. Adams | Rufus Bell.,.,.,. | D | 45 | 2 | Tei | | | | Су | D | ++ | | | Cusing and screen: 2-in. to 45 ft. |
| Y-30 | E. L. Mixon | do | α | 68 | 2 | Tei | 1000 | 20 | 1-10-58 | J | D | 44 | 7 | | Casing and screen; 2-in, to 88 ft. |
| Y-31 | Leon Johnson | Etheridge Plumbing Co. | D | 82 | 2 | Tel | 283 | 3555 | terrer | J. | D | (*** | 4.5 | *** | Casing: 2-in. to 77 ft.; 2-in. screen from 77 to 82 ft. See driller's log. |
| Y-32 | Escambla County Board of Education , | , do | D | *,*: | as | Tci | 285 | | ***** | J | P | | 7 | 5 | |
| Y-33 | R. L. Lowrey | | В | 48,9 | 8: | Tel | | 41.7 | 4-23-56 | J | D | 58 | 11 | 9 | |
| Y-34 | Ina Watson, | ****** | D | 27 | 2 | Tel | | | | Су | D | (4)* | | *** | Casing and screen: 2-in, to 27 it. |
| ¥-35 | Alvin Maye | Rufus Bell | D | 60 | 2 | Tei | | | | J: | s | 4 = | 166 | 1234 | Casing and screen: 2-in, to 80 ft. |
| Y-36 | C. B. Long, Sr | C. B. Long, Sr . | D | 58 | 2 | Tei | | 42 | 1944 | đ | D | 111 | | unte | Casing and screen: 2-in, to 58 ft. |
| ¥-37 | A. T. Harrell | Etheridge Plumbing Co. | D | 53 | 2 | Tei | | 39 | 8000 | J | D | 50 | 10.0 | 7444 | Casing: 2-in, to 49 ft.; 2-in, screen from 49 to 53 ft. |
| Y-38 | Estell Smith | Rufus Bell | D | 100 | 2 | Tci | | 90 | 1952 | 1 | D | 4.4 | 11 | 6 | Casing and screen: 2-in. to 106 ft. |
| Y-39 | J. H. Findley | do | D | 100 | 2 | Tel | | | | Су | D, S | 65 | 72.2 | 1200 | Casing and screen: 2-in. to 100 ft. |

| Y-40 | Miles Horn | 40 | D | 55 | 2 | Tei | 286 | 48 | 1953 | Cy | D | * * | | 0.00 | Casing and screen: 2-in. to 55 ft. |
|------|-----------------------------------|---------------------------|---|------|------|------------|--------|---------|------------|----|-----------|-------|-----|--------|---|
| Y-41 | , , , , do . , , , , , , , , | do | D | 60 | 2 | Tci | | 52 | 1954 | 1 | D, S | ** | 14 | 16 | Casing: 2-in. to 55 ft.; 2-in. screen from 55 to 60 ft. |
| 7-42 | do | Etheridge Plumbing Co. | D | 120 | 3 | Tel | 288 | | | 1 | D, S | | 4 | 1,6 | Casing: 3-in. to 102 ft.; 3-in. screen from 102 120 ft. See driller's log. |
| r-43 | . , , , do , , , , | do | D | 112 | 4 | Tei | 289 | 55 | 12-21-54 | T | D, S | 50 | 0 | | Casing: 4-in. to 91 it.; 2-in. screen from 91 to 112 it. Measured yield 34.0 gpm on 12-21-54. |
| 7-44 | Escambla County Baplist Assoc. | do | D | *** | 4 | Tei | 272 | 1222 | | 3 | D | ** | | -4-4-4 | |
| r-45 | W. Duke's Estate | B. B. Booker. | D | 160 | 2 | Tmu | | | | Су | D | -4.4 | 7 | В | |
| r-46 | A, W. Traweek | A. W. Traweek | D | 77 | 2 | Tci | | 11515.5 | | J | D | 120 | 11 | 16 | |
| 7-47 | J. W. Childress | E. Chavers | D | 16,0 | 14 | Tei | 284 | 9.2 | 8- 8-56 | P | D | 70 | 18 | 36 | |
| r-48 | Alongo Kendrick, | Frank Holland | D | 55 | 2 | Tel | | 40 | | J | D | 70 | 7 | 17 | Casing and screen: 2-in. to 55 ft. |
| 7-49 | L. O. Glass, | Rufus Bell | D | 50 | 2 | Tel | | 38 | 1939 | J | D | 5.5 | 11 | 11 | |
| 7-50 | Miles Horn | do | D | 80 | 2 | Tel | | 45 | 1955 | ı | D, S | 2/2 | | 5.55 | Supplies 200 head of cattle. |
| 7-51 | do | do | D | 45 | 5 | Tel | 10414 | 33 | 1954 | J | 8 | 500 | | *** | Casing: 3-in. to 38 ft.; 3-in. screen from 36 to 45 ft. |
| 7-52 | Austin Z. Savage | do | В | 53.7 | - 11 | Tei | 281 | 42.0 | 8-7-58 | 3 | D | 16 | 241 | Alex- | |
| r-53 | J. W. Abrams | , do | D | 85 | 3 | Tel | | 49 | 1954 | J | D, Ind | * * . | | 200 | Supplies dairy. |
| r-54 | Atmore Nursery | | D | 150 | 4 | Tei (7) | 282 | | 1954 | T | Ind | 0.0 | 7 | 7 | Supplies nursery. |
| 7-55 | C. C. Lee | Rufus Bell | D | 70 | 2 | Tel | 1.23 | 50 | 1946 | J | D, S | 71 | 7 | 10 | |
| 7-56 | W. D. Farrar | do | D | 55 | 2 | Tci | 444 | 45 | 1951 | 3 | D, S | | 11 | 24 | |
| r-57 | W. H. Fountain | Etheridge Plumbing Co. | D | 90 | 2 | Tel | 286 | 49 | 1954 | J | D | 4.6 | | 111 | Casing: 2-in. to 85 ft.; 2-in. screen from 85 to 90 ft. See driller's log. |
| 7-58 | J. S. Fountain | J. S. Fountain | В | 53,6 | 8 | Tci | | 46. 5 | 7-31-58 | м | D | | -+ | 335 | |
| 7-59 | С. Е. НаЦ, | ******** | D | 72 | 2 | Tci | + + + | 60 | 1950 | Cy | D | 158 | 12. | | |
| 7-60 | D. C. Hall | E. Flowers | D | 48 | 2 | Tei | | 36 | 1955 | 3 | D | | 7 | 7 | Casing and screen; 2-in, to 48 ft. |
| -61 | Ida Peavy | ********** | В | 36.9 | 8 | Tci | | 30, 0 | 4-24-56 | М | Q | 12.2 | 772 | | |
| 7-62 | J. B. Watson | | n | 38.1 | 10 | Tel | 283 | 31.0 | 4-24-56 | J | D | | 117 | 1211 | |
| -63 | W. T. Rigby | E. Flowers | D | 54 | 2 | Tel | 4.4(*) | | 1955 | 3 | D | | | 24.0 | Casing and screen: 2-in, to 54 ft. |
| -84 | C. E. Hall | ,do | 1 | 87 | 1 | Tel | | 45 | 1951 | J | D,S | 1.0 | 7 | 4 | Casing and screen: 2-in, to 87 ft. |
| -65 | Grady Harrelson | do | D | 76 | 2 | Tei | | | December 1 | 1 | D | .5 | 14 | | Casing and screen: 2-in. to 78 [t. |

Table 4.-Records of wells in Escambia County, Ala.-Continued

| | | | | | - | | | Wa | ter level | | | Field | detern | ninations | |
|------|------------------|---------------------------|------|-------------------------|---------------------------|-----------------------|------------------------------------|--|--------------------------|----------------|--------------|---------------------|------------------------|-------------------------------|--|
| Well | Owner | Driiler | Type | Depth of well (feet) | Diameter of well (Inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of meas- urement | Method of 11ft | Use of water | Temperature (°F) | Chloride (Cl) (ppm) | Hardness an CaCO3 (ppm) | Remarks |
| Y-66 | O. L. Glass | Rufus Bell | D | 58 | 2 | Tcl | 271 | 45 | 1955 | J | Ind | *** | (4) | 76(6)4) | Supplies dairy. |
| Y-67 | S. L. Glass | do | D | 110 | 2 | Tel | 1111 | 87 | 1952 | J | D | | 7 | 18 | |
| Y-68 | H. F. Adkinson | C. Holland | a | 75 | 2 | Tei | | 65 | | 1 | D | | 86 | 22.0 | |
| Y-69 | G. E. Johnson | do, | D | 70 | - 2 | Tcl | **1 | 50 | 1954 | J | D | | 7 | 10 | |
| Y-70 | N. R. Nicholas. | Rowley | D | 67 | 2 | Tel | *** | 57 | ***** | 3 | D, S | | 11 | 14 | |
| Y-71 | Allen Holt | Rufus Bell | D | 72 | 2 | Tel | 10.00 | 60 | 1955 | С | D | 69 | 4 | 18 | |
| Y-72 | Fred Killer | | В | 24. B | 8 | Tei | 0.50 | 17.4 | 0-10-56 | М | D | | (0) | * * * | |
| Y-73 | W. W. Johnson | W. W. Johnson | D | 120 | 2 | Tei | 155 | 100 | 1954 | J | D,S | | 11 | 2.2 | |
| Z- 1 | R. M. Helton | R. M. Hellon | D | 60 | 2 | Tel | 1277 | 48 | | J | D,S | 2.5 | - 11 | *** | |
| Z- 2 | X. D. Zeigler | X. D. Zeigler | D | 88 | 2 | Tei | 44.4 | 72 | 1954 | Су | N | 229 | ** | | Casing and screen: 2-in. to 88 ft, |
| Z- 3 | do | do | D | 197 | 14 | Tei | 299 | 11.0 | 5~15-56 | P | 9 | 337 | 100 | 10.1 | |
| Z- 4 | , do | | D | 42 | 2 | Tei | 111 | 30 | | J | D, S | | 2.5 | *** | Casing and screen: 2-in. to 42 ft. |
| Z- 5 | 7. E. Kearley | Rufus Bell., | D | 40 | 2 | Tel | 1353 | | ***** | J | D, S | ** | *(4) | *** | |
| Z- 6 | R, L, Goldsmith, | Etheridge Plumbing Co. | D | 98 | | Tei | 285 | Verv | 1.1.1.1.1 | 1 | D, S | 70 | 4 | 7 | Casing: 2-in, to 93 ft.; 2-in, screen from 93 to 98 ft. See driller's log. |
| Z- 7 | A. T. Pouncey | do | D | 92 | 2 | Tet | 298 | 70 | 1952 | Су | D | 14.74 | 14 | 8 | Casing and screen: 2-in. to 92 ft, |
| Z- 8 | David Brazzell | Dan Dailey | D | 40 | Τŧ | Tel | | 33 | | P | D | 65 | 0 | 7 | |
| Z- 9 | do | do | מ | 56 | 2 | Tei | | 46 | 1953 | Су | D, S | | 0 | 5 | |
| Z-10 | Grady Brazzell | do | D | 97 | 2 | Tel | 14.4.4 | | | Су | D,S | 69 | 2.2 | 8 | |
| Z-11 | E N. Robinson | E. N. Robinson | D | 68 | 2 | Tei | | 56 | 1945 | Cy | D,S | 30 | 10.4 | | |
| Z-12 | J. R. Criswell. | Etheridge Plumbing Co. | D | 70 | 2 | Tci | 202 | | | J | D | 23 | 11 | 25 | Casing: 2-in, to 65 ft.; 2-in. screen from 65 to 70 ft. See driller's log. |
| Z-13 | Rosa Jackson | | 000 | 37 | 14 | Tei | 4.4.4 | 27 | 1938 | P | D | 70 | 11 | 8 | Casing and screen: 2-in, to 37 ft, |

| -14 | J. L. Merriweather | | D | 65 | 2 | Tcl | | 53 | | J | D, S | + 3 | 8. | 4.4.4 | Casing and screen: 2-in. to 65 ft. |
|-----|---|---------------------------|---|------|----|-----|-----|---------|---------|----|------|-----|------|---------|--|
| -15 | H. S. Drew | Rufus Bell | D | 36 | 2 | Tel | | 16 | 1956 | 3 | D | 70 | 7 | 9 | Casing and screen: 2-in, to 36 ft. |
| -16 | C. I. Davison | Etheridge Plumbing Co. | D | 61 | 2 | Tei | 299 | 32 | 1957 | J | D, S | * * | *** | | Casing: 2-in. to 56 ft.; 2-in. screen from 56 to 61 ft. Reported to be pumped at 6.0 gpm. See driller's log. |
| -17 | J. R. Roberts | *********** | D | 45 | 2 | Tel | | 29 | | 3 | D | | ** | *** | |
| -18 | L. B. Lassitter | Rufus Bell | D | 53 | 2 | Tei | *** | 33 | 1952 | J | D, S | 70 | 11 | 10 | |
| -19 | B. E. Vickrey | W. D. Bell | В | 41.1 | | Tel | 293 | 31.9 | 8- 1-56 | м | D, S | 2.4 | 997 | 1.4.5 | |
| -20 | A. C. Murph | Etheridge Plumbing Co. | D | 120 | 2 | Tel | 299 | * * * * | ***** | J | D, S | | 11 | 15 | Casing: 2-in. to 106 ft.; 2-in. slotted pipe from 106 to 120 ft. See driller's log. |
| -21 | T. E. Steadham | B. B. Booker | D | 50 | 2 | Tel | 122 | 52 | 1948 | 1 | D,S | 68 | 8 | 27 | Casing: 2-in, to 45 ft.; 2-in, screen from 45 to 50 ft. Deepened from 30 to 50 ft. |
| -22 | Charles Henderson . | Dan Dalley | D | 33 | 14 | Tel | | 27 | | P | D | | | 4.44 | |
| -23 | Virginia Dickerson . | do | D | 35 | 14 | Tci | 100 | 27 | 1951 | P | D | 68 | 0 | 6 | Casing: $1\frac{1}{4}$ -in. to 32 ft.; $1\frac{1}{4}$ -in. screen from 32 to 35 ft. |
| -24 | Evans McMillan | do | D | 40 | 14 | Tel | 100 | 24 | 1941 | P | D, S | 66 | 0 | 8 | |
| -25 | Andrew Leslie | do | D | 45 | 43 | Tci | 114 | | | Су | D | | 0 | 7 | |
| -28 | J. B. Bullurd | Jeff Hall | מ | 40 | 14 | Tel | *** | **** | | P | D | | 12 | * * * | Casing and screen: 14-in. to 40 ft. |
| -27 | Ellis Etheridge. | Dan Dalley | D | 45 | 14 | Tcl | | 35 | 200329 | P | D | 69 | 7 | 5 | Casing and screen: 14-in. to 45 ft. |
| -28 | William Cheesboro . | | В | 43.3 | 8 | Tei | | 37.2 | | м | D | | 23 | 72.02 | |
| -29 | J. N. Helton | J. N. Helton | D | 44 | 2 | Tel | 297 | 33 | ***** | J | D, S | 3.5 | 4 | 5 | Casing: 2-in. to 41 ft.; 2-in. screen from 41 to 44 ft. |
| -30 | E. D. Fore | D. C. Troutman. | D | 50 | 2 | Tei | +++ | 40 | | J | D, 8 | | 755 | (5.5.5) | |
| -31 | W. T. Findley | | D | 50 | 2 | Tci | | 36 | 1954 | Су | D, 8 | 5. | * * | | Casing and screen: 2-in. to 50 ft. |
| -32 | E. D. Fore | | D | 19.2 | 14 | Tel | | 14.1 | 5- 4-56 | P | D | ** | | | |
| -33 | A. P. Helton | | D | 54 | 2 | Tel | | 40 | | J | D, S | 12 | 12.5 | 4.4.4 | |
| -34 | E. D. Fore | Rufus Bell | D | 40 | 2 | Tei | *** | 28 | 1944 | J | D | | 7 | | Casing and screen: 2-in, to 40 ft. |
| -35 | Escambia County Board of Education . | do | D | 40 | 2 | Tel | | 28 | | 1 | p | | 11 | 16 | Supplies school. |
| -36 | J. R. Roberts | | D | 45 | 1 | Tci | *** | 31 | 1944 | Су | D | * * | | | Casing and screen: 2-in. to 45 ft. |
| -37 | H. C. Kearley | Etheridge Plumbing Co. | D | 110 | 2 | Tel | 295 | 45 | 1955 | 3 | D, 8 | ** | | 122 | Casing and screen: 2-in, to 110 ft, |
| -3B | F. M. Helton | F. M. Helton | D | 45 | 2 | Tci | | 33 | | Су | D, S | | | 14.4 | |
| -39 | S. B. Troutman | D. Troutman | D | 52 | 3 | Tel | | 28 | 1949 | J | D, S | | cer | | |

Table 4.-Records of wells in Escambia County, Ala.-Continued

| | | | | | _ | | | Wa | ter level | 0 | | Field | detern | ninations | |
|------|---|----------------|------|-------------------------|------------------------------|-----------------------|------------------------------------|--|--------------------------|----------------|--------------|---------------------|---------------------|-------------------------------|---|
| ₩еШ | Owner | Driller | Type | Depth of well (feet) | Diameter of well (inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of mess- urement | Method of 11ft | Use of water | Temperature (°F) | Chloride (Cl) (ppm) | Hardness as CaCO3 (ppm) | Remarks |
| Z-40 | L. N. Findley | L. N. Findley | D | 40 | 2 | Tel | | 31 | | Су | D | 12.7 | 152 | 2,22 | |
| Z-41 | J. L. Miller | J. L. Miller | 15 | 42, 1 | В | Tci | 285 | 23.1 | 5-16-57 | J | D,S | Sea. | 10 | 44 | Observation well, |
| Z-42 | M. O. Turner | | D | 115 | 2 | Tei | 285 | 75 | 1953 | 3 | D | .05 | 130 | 27.5 | Casing and screen: 2-in, to 115 ft. |
| Z-43 | C. Moulton | | D | 60 | 2 | Tci | | 40 | | Су | α | 17.4 | 160 | 195 | |
| Z-44 | Herman Wesley | Rufus Bell | 1 | 59 | 2 | Tel | | 44 | 1949 | J | D,S | 89 | 11 | 7 | Casing and screen: 2-in. to 59 ft. |
| Z-45 | W. H. Lee | W. H. Les | D | 40 | 2 | Tel | | 32 | | P | D | | ++ | 240 | |
| Z-48 | J. P. Slanton | Rufus Bell | α | 65 | 2 | Tcl | | 45 | | J | D,8 | 69 | 1985 | 552 | Casing and screen: 2-in. to 55 ft. |
| Z-47 | W. H. Stanton | W. H. Stanton | D | 50 | 2 | Tel | | 32 | | 1 | D,S | 69 | 7 | 6 | |
| Z-48 | J. C. Rushing | Rufus Bell | J | 60 | 2 | Tcl | | | | J | D | *** | 25 | 2000 | Casing and screen: 2-in. to 80 Jt. |
| Z-49 | Charles Stephens | Jim Stephens | D | 32.5 | 14 | Tel | 290 | 23, 6 | | P | D | 68 | 7 | 9 | |
| Z-50 | Escambia County Board of Education . | ************ | J | 35 | 21 | Tcl | 291 | 20 | | P | P | 89 | 7 | 13 | Casing and screen: 2½-in, to 35 ft. |
| Z-51 | J. D. Lee | D. C. Troutman | Д | 45 | 2 | Tei | | 35 | | 1 | D,S | 69 | 7 | 11 | Casing and screen; 2-in. to 45 ft, |
| Z-52 | J. T. Kearley | Rufus Bell | D | 45 | 2 | Tel | 15.72 | 25 | 1955 | J | D, S | 187 | | nees | Casing: 2-in. to 42 ft.; 2-in. screen from 42 to 45 ft. |
| Z-53 | R. B. Peacock | D. C. Troutman | D | 60 | 2 | Tel | | 50 | | J | D, 8 | | 7 | 11 | Casing and screen: 3-in, to 60 ft, |
| Z-54 | J. W. Helton | Rufus Bell | D | 47 | 3 | Tel | | | | 1 | D, S | 68 | 11 | 16 | Casing and screen: 3-In. to 47 IL |
| Z-55 | Ransom Lambert | Ransom Lambert | D | 48 | 14 | Tci | | 40 | 1958 | P | D | 37 | 17171 | 2,37 | Casing: $1\frac{1}{4}$ -in, to 43 ft.; $1\frac{1}{4}$ -in, screen from 43 to 48 ft. |
| Z-56 | Dan Dailey | Dan Dalley, | D | 25, 4 | 14 | Tel | | 21.9 | 5- 8-56 | P | D | × 4 | 144 | 12.00 | |
| Z-57 | Rachel Westbrook. | do | D | 29.8 | 11/2 | Td | 294 | 22, 4 | 5- 8-58 | P | D | 67 | 7 | 5 | |
| Z-58 | R. E. Wiggin | H. E. Wiggin | Д | 38 | 14 | Tcl | 993 | 31 | 1- 5-50 | P | D | 88 | 7 | -4: | |
| Z-59 | Charles Jackson | | D | 80 | 2 | Tci | *** | 40 | ***** | J | מ | 0.0 | 11 | 6 | Casing and screen: 2-in. to 60 ft. |

| Z-60 | D 7 0/ | Dan Dailey | ם | 40 | 14 | Tci | 25412 | 32 | 1944 | P | D | | | | Casing and screen: 14-in. to 40 ft. |
|-------|--------------------------|---------------------------|-----|------|------|------------|-------|-------------|---------|-----|------|-----------|-------|---------|---|
| Z-61 | P. J. Singleton | H. S. Scott | D | 25.4 | 17 | Tel | | 21.9 | 5- 8-56 | P | D | 87 | 11 | 7 | Canal and servine 14 miles to 10 miles |
| - | H. S. Scott | | | | | Tei | 295 | 16, 1 | 5- 9-56 | P | D | 68 | 43 | 20 | |
| Z-62 | John Parker | W. Pipkins | D | 22,9 | 14 | | | | | 177 | | | 1 | | |
| Z-63 | Robert Golden | Robert Golden | D | 28.2 | 14 | Tci | 285 | 21.3 | 6- 1-58 | P | D, 8 | 72 | | 2.0 | |
| 2-64 | C. L. Pierce | C. L. Pierce. | D | 29 | 14 | Tel | 14.0 | 25 | 1951 | 1 | D, S | 72 | 67 | 19 | Casing: $1\frac{1}{4}$ -in. to 28 ft, ; $1\frac{1}{4}$ -in. screen from 26 to 29 ft. |
| Z-65 | Henry McCant | Henry McCant | D | 35 | 2 | Tel | 63.0 | 23 | 1941 | P | ם | *10 | 5.20 | | Casing: 2-in. to 32 ft.; 2-in. screen from 32 to 35 ft. |
| Z-66 | Mike Simpson. , | Mike Simpson, Jr | 5.5 | 48 | 6 | Tci | | D. P. P. P. | | 3 | D | 100 | 941 | 1.00 | |
| Z-67 | Marie Bayne | Dan Dalley | D | 30.6 | 14 | Tci | 191 | 20, 4 | 6- 7-56 | P | D | 60 | 14 | 17 | |
| 2-68 | A. A. Vickery | Rufus Bell | D | 55 | 2 | Tei | 557 | 43 | 1951 | J | D, S | 69 | 7 | 5 | Casing: 2-in. to 52 ft, ; 2-in. screen from 52 to 55 ft. |
| Z-89 | Henry McCant | Etheridge Plumbing Co. | D | 60 | 2 | Tci | 222 | 45 | 1950 | J | D,S | 220 | 4.41 | *** | Casing and screen: $2\text{-}\mathrm{l} n_{\rm s}$ to 60 ft. |
| Z-70 | W. M. Carney Mill Co. | Gray Artesian Well Co. | D | 153 | В | Tel (?) | 290 | 30 | 9-25-45 | т | Ind | ** | v.×. | *** | Casing: 8-in. to 60 ft.; none below. Reported to be pumped at 200 gpm. See driller's log. |
| *Z-71 | City of Atmore | do | ם | 120 | 8 | Tci | 290 | 47.8 | 4-24-57 | т | P | 69 | * * | | Casing: 8-in, to 92 ft.; none below. |
| *Z-72 | do | Layne-Central Co | D | 129 | 10_8 | Tel | 285 | 18 | 8-21-45 | Т | P | 69 | ** | (9/4/8) | Casing: if-in. to 21 ft.; 8-in. from surface to 100 ft.; 8-in. screen from 100 to 129 ft. Measured yield 333 gpm on 4-24-57. See driller's log. |
| *Z-73 | ,,,,do.,,,,, | Gray Artesian Well Co. | D | 261 | 12 | Tmu | 287 | 22 | 7- 1-48 | т | P | | +'* | *** | Cusing: 12-in. to 208 ft.; 8-in. screen from 208 to 261 ft. Measured yield 463 gpm on 4-24-57. See driller's log of test hole drilled to depth of 403 ft. |
| Z-74 | D. C. Troutman | | D | 29.8 | 14 | Tci | 291 | 22. 4 | 5- 4-58 | P | D | 67 | 11 | 8 | |
| Z-75 | R. L. Goldsmith. | Etheridge Plumbing Co. | D | 45 | 2 | Tel | 289 | 20 | | 3 | 3 | , y , e) | 7 | 6 | Casing: 2-in, to 42 ft.; 2-in, screen from 42 to 45 ft. |
| Z-76 | da | , do | D | 02 | 4 | Tel | 289 | 50 | 9- 3-53 | Т | D | ** | 7 | 11 | Casing: 4-in. to 62 It.; 4-in. screen from 62 to 82 It. See driller's log. |
| Z-77 | R. C. Chapman | do | D | 50 | 2 | Tci | | 45 | 1953 | J | D | - | | -1-1 | |
| 2-78 | ,do | Elmer Ridgeway | D | 32.5 | 14 | Tel | 297 | 24. 5 | 5- 9-56 | P | D | ** | (4) 9 | | |
| Z-79 | F. M. Helton. | ************ | D | 80 | 3 | Tel | 294 | 40 | | J | D, S | ** | 121 | 500 | Casing: 3-in, to 50 ft.; 3-in, screen from 50 to 60 ft. |
| Z-80 | David Powers, | | J | 35 | 2 | Tci | | 30 | 1954 | 3 | D | | | Sec | Casing and screen: 2-in, to 35 ft. |
| Z-81 | | | J | 45 | 2 | Tci | *** | 30 | 1954 | | D | 10 | 10.00 | 23.45 | |
| Z-82 | H. C. Black | Flowers | D | 60 | 2 | Tei | | 30 | 150.00 | 1 | D, B | 15.4 | -11 | 4 | Casing and screen: 2-in. to 60 ft. |
| Z-83 | Jessie Sanders | wallengt and a second | , | 49 | 11 | Tel | | 35 | 1954 | P | D | | | | Casing and screen: 12-in. to 40 ft, |

| | | | | | _ | | | Wa | ter level | | | Fleld | detern | inations | |
|-------|------------------|---------------------------|------|-------------------------|------------------------------|-----------------------|------------------------------------|--|--------------------------|----------------|--------------|---|------------------------|-------------------------------|---|
| Well | Owner | Driller | Type | Depth of well (feet) | Diameter of well (Inches) | Water-bearing unit | Allitude of land surface (feet) | Above (+) or below land surface (feet) | Date of me29- urement | Method of lift | Use of water | Temperature (°F) | Chloride (CI) (ppm) | Hardness as CaCO3 (ppm) | Remarks |
| Z-84 | B. F. Myrick, | Rufus Bell | Д | 50 | 2 | Tei | | 12222 | | J | p | 10.0 | 0.0 | 200 | Casing and screen: 2-in, to 50 ft. |
| Z-85 | R, C. Lowrey | Etheridge Plumbing | D | 61 | 2 | Tel | 281 | 37 | 1955 | J | D | 69 | 7 | 4 | Casing: 2-in, to 56 ft, ; 2-in, screen from 50 to 61 ft. See driller's log. |
| Z-86 | C. E. Batchelor | Rufus Bell | D | 65 | 2 | Tci | 22. | | | 1 | D | -24 | 20 | | |
| Z-87 | do | do | D | 60 | 2 | Tel | | | ***** | J | D | | ** | | |
| Z-88 | John F. Vickrey. | Patrick Plumbing Co. | D | 35 | 2 | Tcl | | 28 | | 3 | D,S | 27 | 120 | 12.0 | |
| Z-89 | J. L. Jones | J. L. Jones | n | 40 | 2 | Tci | 2.22 | 20 | ***** | J | D | ** | 78.9 | *** | Casing and screen: 2-in. to 40 ft. |
| Z-80 | J. T. Hobbs | Etherldge Plumbing Co. | D | 50 | 2 | Tel | 288 | 2 | | 3 | D | 10/4 | 20 | 12.2 | Casing: 2-in. to 45 ft; 2-in. screen from 45 to 50 ft. See driller's log. |
| Z-91 | A. B. Moreing | E. Kearley | D | 40 | 2 | Tcl | 4364 | 30 | | J | D | $\mathcal{L}_{\mathcal{A}}(\hat{\mathfrak{g}})$ | 4.4 | 12.50 | |
| Z-92 | S. J. Peacock | Etheridge Plumbing Co. | Д | 55 | 2 | Tel | 291 | 43 | 5,735,735 | Су | a | *.* | | 1.55 | Casing and screen; 2-in. to 55 ft. |
| Z-93 | J. T. Moye | do | D | 50 | 2 | Tel | 289 | **** | | J | D | 100 | 7 | 6 | Casing: 2-in. to 46 ft.; 2-in. screen from 46 to 50 ft. See driller's log. |
| Z-94 | F. F. Amos | | В | 43, 5 | 0 | Tcl | 285 | 33.7 | 8- 1-58 | м | N | 1.0 | ** | 1616 | |
| Z-95 | Eddle Johnson | Eddle Johnson | D | 30 | 14 | Tcl | | 22 | 552725 | P | D | ** | 14 | 15 | |
| Z-96 | Alton Tennant | | D | 43 | 2 | Tel | | 35 | | J | D, S | (8.90) | 11 | 12 | Casing and screen: 2-in. to 43 ft. Supplies about 100 cattle. |
| Z-97 | A. L. Cooper | Jasper Byrd, | D | 45 | 2 | Tci | (F. 50) | 35 | 1955 | J | D | 70 | 14 | 12 | Casing and screen: 2-in, to 45 ft, |
| Z-98 | Clark Davison | Rufus Bell | D | 28 | 11 | Tei | | 18 | | P | D | 141 | 14 | | Casing and screen: 14-in. to 28 [t. |
| Z-99 | B. W. Purvis. | B. W. Purvis | D | 38 | 2 | Tci | 0.414 | 30 | 1950 | J | D | | 55. | (4.4.4) | |
| Z-100 | W. E. Coker | Rufus Bell | D | 38 | 2 | Tel | | 30 | 1951 | J | D,S | ++- | 44 | | |
| Z-101 | J. L. Glbbs | do | D | 42 | 2 | Tcl | *** | 24 | 1950 | J | D,S | | .55 | .555 | |
| Z-102 | J. M. Black, | T. Byrd | D | 47 | 2 | Tcl | 282 | 30 | 1950 | - 3 | D,S | 70 | 7. | 14 | Supplies 100 hogs and 50 cows. |
| E01-Z | H. Gates | Rufus Bell | D | 49 | 2 | Tei | 100 | 35 | ***** | 3 | D | | | 404.45 | |

| Z-104 | N. A. Hale | Constitution . | D | 45 | 2 | Tei | | 30 | | Cy | D | 1.1 | 7.5 | 1.1.1 | Casing and screen: 2-in. to 45 ft. |
|---------|-------------------------|---------------------------|-------|------|----|-----|---------|-------|---------|----|------|-------|-------|---------|--|
| Z-105 | C. F. Long | Rufus Bell | D | 65 | 3 | Tel | 278 | 40 | 1953 | 3 | D, S | 150 | 7 | 8 | Casing and screen; 3-in. to 65 ft. Supplies 100 cows. |
| AA- 1 | Charles Quarker. | | В | 37 | 2 | Tel | 1.4.4 | 27 | 1956 | J | D | 70 | 7. | 12 | |
| AA- 2 | Tisanna Thames | Gens Robinson | В | 24 | 14 | Tei | | 13 | 1982 | 1 | D, B | 10 | *** | 227 | |
| AA- 3 | L. B. Earle | Rufus Bell | В | 58 | 2 | Tel | 295 | 38 | 1954 | 3 | D | | 42 | *** | |
| AA- 4 | B. W. Carter | Etheridge Plumbing Co. | D | 50 | 2 | Tel | 290 | | 1954 | J | D | ** | 11 | 225 | Casing: 2-in. to 45 ft.; 2-in. screen from 45 to 50 ft. See driller's log. |
| AA- 5 | Elsie Stallworth | Elsie Stallworth | В | 26.6 | 14 | Tel | 293 | 16.5 | 7- 2-56 | P | D | .1:10 | 7 | 10 | |
| A.A - 6 | J. M. Barrington | Rufus Bell | 7.0 | 40 | a | Tel | 294 | 30 | | 3. | D, S | 100 | 7 | В | |
| AA- 7 | Joseph Thames | Joseph Thames | В | 30.8 | 14 | Tei | 294 | 24, 2 | 7-22-56 | P | D | 68 | 7 | 5 | |
| AA- B | S. L. Quarker | S. L. Quarker | В | 34 | 2 | Tei | 295 | 28 | 1956 | 3 | D,S | 900 | 11 | 38 | |
| AA- 9 | Arline Rolin, | Arline Rolin | В | 27.6 | 14 | Tci | 283 | 19.6 | 7-19-56 | P | D | 09 | 11 | 6 | |
| AA-10 | Ewing Estate | June Kyser | D | 79 | 2 | Tel | 308 | 80 | 1947 | Су | N | ** | 990 | *** | |
| AA-11 | do | , do | D | 79 | 2 | Tci | 305 | 60 | 1948 | Су | D | | 4.4 | | |
| AA-12 | , do , , | do | D | 79 | 2 | Tci | 300 | 60 | 1950 | Су | И | | | + + + | |
| AA-13 | do., | , do | В | 42 | 14 | Tel | 258 | 30 | 1948 | P | D | (5(5) | | | |
| AA-14 | do | do | В | 55 | 2 | Tci | | 40 | 1930 | C | D, B | ++ | | 4.4.4 | |
| AA-15 | do | W. Tyres | В | 79 | 2 | Tel | 290 | 59 | 1955 | C | D, S | 17.7 | | | |
| AA-18 | do | June Kyser | В | 79 | 2 | Tei | 290 | 59 | 1938 | C | D, B | 72 | 11 | 4 | |
| AA-17 | D. C. Lambert | Etheridge Plumbing Co. | D | 87 | 2 | Tel | 293 | 38 | 121111 | J | D, S | 73 | (+) + | 7 | |
| AA-18 | P. J. Holsenback | Wooten | В | 45 | 2 | Tel | | 36 | 1945 | J | D | | 1414 | *** | |
| AA-19 | Joe B. Hardy | Joe B. Hardy | В | 47 | 2 | Tel | 283 | 40 | 1945 | J | D,B | 70 | 14 | 11 | |
| AA-20 | June Kymer | June Kyser | В | 52 | 2 | Tei | 290 | 40 | 1948 | J | D | 71 | 39 | 46 | |
| AA-21 | C. K. Carter | Jim White | В | 48.0 | 8 | Tei | 29C | 36, 6 | 7-23-56 | м | D | (55 | ** | 5555 | |
| AA-22 | J. T. Chyne | Rufus Bell | В | 58 | 2 | Tei | (5,5,5) | 36 | 1954 | J | מ | | 14.5 | 100 | |
| AA-23 | Houston Sanspree | do | В | 82 | 2 | Tel | *** | 50 | 1954 | J | D | 70 | 7 | 22 | |
| AA-24 | Atmore Country Club. | ************ | (5)5) | 28 | 14 | Tel | ••• | 20 | | J | D | ٠. | Sex. | 12454.4 | |
| AA-25 | Carl Jones | B. B. Booker. | n | 60 | 2 | Tei | | 40 | 1954 | J | D | 70 | 5 | 14 | |
| AA-26 | L. L. Donald | L. L. Donald. | В | 85 | 2 | Tel | 285 | 80 | 1950 | J | D | | | 1 | |

| | | | | | п | | | | ter leval | | | Field | detern | ninations | |
|-------|----------------|---------------------------|------|-------------------------|------------------------------|-----------------------|------------------------------------|--|--------------------------|----------------|--------------|----------------------|------------------------|-------------------------------|--|
| Well | Owner | Driller | Туре | Depth of well (feet) | Dismeter of well (inches) | Water-bearing unit | Altitude of land surface (feet) | Above (+) or below land surface (feet) | Date of meas- urement | Method of 11ft | Use of water | Temperature (* F) | Chloride (CI) (ppm) | Hardness as CaCOs (ppm) | Remarks |
| AA-27 | Н. М. Сту | Atlas Drilling Co | D | 232 | 10 | Tmu | 290 | 52 | 3-11-53 | т | Irr | 00 | 7 | 0 | See driller's log. |
| AA-28 | S. A. Carnley | S. A. Carnley | В | 70 | 2 | Tel | 252 | 55 | 1939 | J | D | 6.0 | *:* | *** | |
| AA-29 | Comer Curry | Etheridge Plumbing Co. | D | 110 | 2 | Tei | 262 | 90 | 1954 | Су | D | | 14 | *** | Casing: 2-in. to 100 ft.; 2-in. screen from 100 to 110 ft. See driller's log. |
| AA-20 | J. C. Adams | | В | 41, 4 | 10 | Tcl | 234 | 37.3 | 7-27-58 | м | D | 364 | 63. | 1114 | |
| AA-31 | L. C. James | Etheridge Plumbing Co. | В | 45 | 2 | Tei | 220 | 35 | ***** | J | D,8 | 957.5 | 13 | 5.55 | |
| AA-32 | Dennis James | | В | 40. i | 8 | Tei | 212 | 25. 3 | 7-27-56 | М | D | | | | |
| AA-33 | Royal Johnson | Rufus Bell | В | 80 | 2 | Tei | | 85 | 1954 | Су | D | | 25.5 | 125 | |
| AA-34 | C. C. Long , | C. C. Long | В | 20 | 14 | Tci | | 14 | 1942 | P | D, B | | 44 | 124 | |
| AA-35 | M. L. Milstead | Etheridge Plumbing Co. | D | 100, 0 | 2 | Tel | 289 | 73.6 | 7-26-56 | Су | D | -66 | int. | 27.5 | |
| AA-36 | I. J. Cochran | do | D | 100 | 2 | Tel | 252 | 80 | 1954 | Су | D,B | ++ | 100 | est. | |
| AA-37 | J. W. Stamps | | В | 32 | 2 | Tel | *** | 7.5 | 7-24-56 | J | D | 900 | 11 | 15 | |
| AA-38 | E. A. Byers | Sid Carnley | D | 90 | 2 | Tel | | 90 | 1944 | Су | D | | 7 | 11 | |
| AA-20 | Dan Boatwright | Bufus Bell | D | 82 | 2 | Tel | | 5.2 | 1953 | Су | D | 4.4 | ** | 2.4.9 | |
| AA-40 | P. E. Daniels | P. E. Daniels | D | 91 | 2 | Tel | 144 | 70 | 1941 | J | D, B | * * | 155 | 1255 | |
| AA-41 | J. W. Hall | Rufus Bell | D | 105 | 2 | Tel | *** | 74 | 1954 | Су | D | | 100 | 54.45A | |
| AA-42 | H. D. Huckabee | Etheridge Plumbing Co. | D | 100 | 1 | Tel | 205 | 88 | 1964 | J | D, B | 70 | 7 | 11 | Casing: 2-in. to 90 ft.; 2-in. screen from 90 to 100 ft. See driller's log. |
| AA-43 | Cay Flowers | Gay Flowers | D | 86 | 2 | Tel | 290 | 65 | | J | D | 71 | 11 | 10 | |
| AA-44 | N. Nall | N. Nall | D | 97 | 1 | Tel | | 72 | 1956 | J | D | | 100 | No.5 | |
| AA-45 | N. L. McGhee | White | В | 38.0 | 8 | Tel | 341 | 25. 1 | 7-30-58 | М | D | 4.4 | 54.00 | 13414141 | |
| AA-48 | G. T. Turner | do.,,,,,,,, | В | 67.9 | 8 | Tci | 266 | 56.1 | 7-30-56 | м | D | (4)(4) | SK E | 35.55 | |

Well: Numbers correspond to those in plate 1 and tables 2, 4, 6, and 7.

Water-bearing unit: Tl. Libbon Formation; Tico, Geoport-Sand; Tmb, Moodys Branch Formation; Ty, Yazco Clay, To, Couls Limestone;
Tim, Marianna Limestone; Ty, Giendon Limestone Member of Byrain Formation; To, Bucatuma Clay Member of Byrain Formation;
Tc, Chickanawaby Limestone; Tima, Micromo Series undifferentiated; Tcl, Chromatic Formation; T, Terrace deposits; Qui,
Allovium

| | | | | | | | | Sodium | | | | | | | 38 C | dness 2003 | | |
|------|------------|---------------------------|-------------------------------|-----------------------|--------------|-----------------|------------------------|--------------------------------------|----------------------------|-------------------------------|------------------|----------------------|------------------|---------------------|--------------------------------------|-----------------------------|--|-----|
| Well | Date of | Water- bearing unit | Silica (SiO ₂) | Alumi- num (Al) | Iron (Fe) | Calcium (Ca) | Mag- nesium (Mg) | (Na) and Potas- sium (K) | Bicar- bonate (HCO3) | Sulfate (SO ₄) | Chloride (Cl) | Fluo- ride (F) | Nilrate (NO3) | Dissolved solids | Cal- cium, mag- ne- sium | Non- car- bon- ate | Specific conduct- ance (micro- mhos at 25° C) | рH |
| Men | Correction | aut | | | | | | | arte per i | imion | | | | | | | 22 () | har |
| A- 2 | 4-11-55 | Ty | 0.00 | 200 | 0.00 | 49 | 5.3 | 8, 5 | 172 | 5. 5 | 7.5 | 0.2 | 0.2 | 0.44 | 144 | 3 | 305 | 7.8 |
| B-21 | 8-22-56 | Tmu | *** | 6.836 | .00 | 8.8 | .7 | 2, 8 | 32 | 1,2 | 2, 5 | .1 | .1 | 0.00 | 25 | 0 | 55 | 6,8 |
| D- 4 | 6-13-55 | Tg Tm To | eni) | *** | , 02 | 35 | 13 | 14 | 180 | 18 | 2.5 | :10 | .2 | 144) | 141 | 0 | 322 | 7.8 |
| D-45 | 6-25-56 | Tmu | **** | *** | . 02 | 7.0 | 2.7 | 4.4 | 32 | 9.5 | 2.0 | :1 | .0 | 2550 | 30 | 4 | 73 | 7.1 |
| E-31 | 8-25-58 | Tmu | *** | 19.1 | .00 | 9.0 | 4, 5 | 3.7 | 54 | 1.2 | 2.2 | .1 | .0 | 200 | 41 | 0 | 88 | 7.0 |
| E-45 | 8-22-56 | Tg Tm To | 100 | | . 00 | 26 | 14 | 14 | 171 | 8.5 | 3.0 | :4: | .1 | 144 | 122 | 0 | 271 | 7.9 |
| F- 3 | 6-23-56 | Tmu | | 0.474 | , 00 | 6.0 | 1. 2 | 5, 8 | 34 | 1, 0 | 2, 2 | 1.1 | .0 | 939 | 20 | 0 | 54 | 8.7 |
| F-13 | 4-14-55 | Tg Tm To | * * * | | . 03 | 29 | 9.6 | 16 | 166 | 10 | 2.5 | .2 | .3 | 775 | 112 | 0 | 283 | 7.8 |
| H-51 | 6-22-56 | Tel | * *** | *** | .00 | 3.6 | .7 | 2.5 | 16 | .0 | 2.5 | . 2 | .7 | 175. | 12 | 0 | 29 | 6,6 |
| H-68 | 8-22-56 | Tmu | *** | 1.64 | .00 | 1.6 | .1 | 3.0 | 9 | .0 | 2.5 | .0 | .1 | 1573 | 4 | 0 | 17 | 6.6 |
| J-27 | 8-22-56 | Tci | (0.00) | 129 | .00 | 1.8 | . 2 | 3.7 | 4 | .0 | 4.2 | 15 | 4.2 | *** | 6 | 2 | 26 | 5.7 |
| K-18 | 6-25-56 | Tel | 7.5.5 | 450 | .00 | . 6 | . 5 | 3.4 | 6 | 1.0 | 2.8 | :1 | .4 | *** | 4 | 0 | 14 | 6,2 |
| L- 1 | 6-25-56 | Tmu | *** | 101 | .00 | 2.0 | . 2 | 2.8 | 9 | . 8 | 2.0 | -1 | .3 | (#(#/#) | U | 0 | 18 | 6.5 |
| M-41 | 6-22-56 | Tcl Tmu | (7,53) | 355 | , 00 | .8 | ,1 | 2. 1 | 4 | .0 | 2.2 | .0 | . 5 | Vela | 2 | 0 | 10 | 8.0 |
| 0-17 | 6-25-56 | Te | | 111 | .06 | 26 | 12 | 5.3 | 136 | 10 | 2.5 | . 2 | .0 | 140 | 114 | 2 | 222 | 7.9 |
| 0-21 | 3- 3-55 | Tmu | **** | | .02 | 21 | 8,9 | 4.1 | 93 | 13 | 5.0 | -4 | . 1 | | 89 | 13 | 180 | 7.4 |

Table 5.-Chemical analyses of water from selected wells in Escambia County, Ala.-Continued

| | | | | | | | | | | | | | | | Hard | | | |
|------------------|--------------------|---------------------------------------|-------------------------------|-----------------------|--------------|-----------------|------------------------|---------------------------------|---|------------------|------------------|----------------------|-------------------------------|---------------------|--------------------------------------|-----------------------------|--|------|
| Well | Date of collection | Water- bearing unit | 8ilica (510 ₂) | Alumi- num (Al) | Iron (Fe) | Calcium (Ca) | Mag- nealum (Mg) | Sodium (Na) and Polas- elum (K) | Bicar- bonate (HCO ₃) ta per mil | Sulfate (SO4) | Chloride (Cl) | Fluo- ride (F) | Nitrate (NO ₃) | Dissolved solids | Cal- clum, mag- ne- sium | Non- car- bon- ate | Specific conduct- ance (micro- mhos at 25° C) | Яq |
| O-85 | 4-11-55 | Tg Tm To Ty Tmb Tgo | 117 | | 009 | 31 | 6.7 | 27 | 177 | 10 | 8.0 | σ. 3 | 0.0 | * * * | 105 | 0 | 307 | 7, 9 |
| 0-110 | 8-23-66 | Tmu | | 177. | . 00 | 11 | 1.3 | 4.6 | 38 | 7, 0 | 2.8 | .1 | .1 | | 33 | 2 | B1 | 6.9 |
| 0-129 | 5-25-55 | Te Tb | *** | 1.5.5 | .01 | 28 | 13 | 7.7 | 155 | 9, 0 | 2.0 | .3 | .1 | *** | 123 | 0 | 263 | 7.8 |
| 0-141 | 5-25-55 | m | 2250 | *** | . 02 | 27 | 7, 0 | 28 | 174 | 10 | 3.0 | .1 | .5 | 5155 | 95 | 0 | 297 | 8.0 |
| 0-146 | 3-29-55 | T1 (?) | *** | *** | . 09 | 25 | 12 | 16 | 159 | 10 | 4.5 | .3 | .3 | 2220 | 112 | 0 | 283 | 7.9 |
| <u>1</u> / O-150 | 1-31-57 | TI | 20 | 0, 0 | . 15 | 28 | 5. 6 | | 165 | 2,3 | 2.9 | .3 | . 3 | 192 | 93 | 0 | 292 | 8, 1 |
| 0-162 | 4-12-55 | Tmu | *** | | . 05 | 28 | 11 | 9,0 | 148 | 7.0 | 4.0 | .1 | ,1 | 211 | 115 | 0 | 250 | 7.7 |
| 0-174 | 5-25-55 | Tl | **** | 111 | . 03 | 37 | 6.7 | 22 | 176 | 9.0 | 9.0 | .1 | .3 | *3 × | 120 | 0 | 318 | 7.8 |
| P-18 | 6-25-56 | Tmu | | | , 00 | 5.4 | 1.5 | 3. 9 | 24 | 1.0 | 3.2 | .1 | 3,1 | 1 | 20 | 0 | 52 | 6.7 |
| P-30 | 6-25-56 | Tg Tm To | *** | 1.11 | .00 | 26 | 13 | 18 | 171 | 12 | 3, 0 | . 5 | .0 | 9:4:1 | 118 | 0 | 280 | 7.8 |
| Q- 2 | 3-25-55 | Tg Tm To | *** | 627 | , 30 | 32 | 11 | 6.5 | 150 | 7.0 | 4.5 | .5 | .2 | 1,111 | 124 | 1 | 280 | 6.0 |
| <u>3</u> / Q-42 | 5-17-56 | Tg Tm To Ty Tmb Tgo(?) | 013 | 55.5 | .00 | 49 | 12 | 16.6×1 | 200 | 5.0 | 3.5 | .1 | .2 | 113 | 172 | B | 318 | 7.8 |
| Q-84 | 6-22-55 | Tmu | | 0.75 | .00 | 1.0 | .1 | 3,7 | 6 | .8 | 3.0 | .0 | 1.0 | 4:4:4 | 3 | 0 | 17 | 8.2 |
| R-29 | 4- 5-65 | Te Tg Tm | *** | Texas | . 22 | 33 | 5.3 | 6.8 | 122 | 12 | 4.0 | .2 | - 71 | | 104 | 4 | 222 | 7.9 |

| S-18 | 6- 2-55 | Tmu | 64.0 | 1888 | - 15 | 2. 6 | 2,3 | 3.2 | 4 | 12 | 6.0 | .0 | -0 | 9-4-8 | 16 | 13 | B4. | 5. 3 |
|-------|---------|---------------------------------------|---------|------|------|------|------|--------|-----|------|------|------|-----|-------|-----|----|-----|------|
| 8-38 | 8-28-58 | Tmu | 1.1.1 | | . 00 | 7. 2 | 1.6 | 4.1 | 33 | 1.5 | 3.0 | .1 | 1.7 | | 24 | 0 | 57 | 6.7 |
| T-13 | 6- 2-55 | Tg Tm To Ty Tmb Tgo(?) | 1117 | 205 | , 20 | 17 | 5, 3 | 45 | 171 | 4.0 | 12 | .3 | .'5 | | 64 | 0 | 311 | 8.0 |
| U- 3 | 6-23-56 | Tmu (?) Tc | *** | 1.27 | .00 | 26 | 9.1 | 5, 1 | 121 | 0, 0 | 3, 3 | .2 | .0 | 1751 | 100 | 1 | 200 | 7.7 |
| U-17 | 6-25-56 | Tei | 443 | 1444 | .00 | 1.6 | 1, 1 | 3.7 | 0 | 1,0 | 3. 2 | .1 | 5.1 | 5355 | 8 | 2 | 34 | 8, 5 |
| V- 2 | 8-22-58 | Qt | *** | 665 | .00 | 1.6 | .1 | 5. 5 | 8 | 4.0 | 3.8 | .1 | .0 | 63.5 | 4 | 0 | 29 | 6,6 |
| V-22 | 2-18-55 | Tg Tm To Ty Tmb Tgo Tl | *** | 121 | .07 | 21 | 7.0 | 34 | 175 | 1. 5 | 7.0 | .2 | .i | 1978 | 81 | ٥ | 305 | 8.0 |
| V-27 | 8- 2-55 | Tg Tm To | 11.0 | *** | .04 | 19 | 11 | 36 | 182 | 12 | 5.5 | .4 | .7 | 223 | 93 | 0 | 315 | 6, 1 |
| V-42 | 6- 1-55 | Tg Tm To | | *** | .10 | 19 | 7.4 | 27 | 146 | 12 | 3.0 | .2 | .5 | 10000 | 78 | 0 | 255 | 6.2 |
| V-89 | 8-23-56 | Tel | 272 | 141 | .01 | 1.4 | .4 | 3.9 | 10 | .0 | 3.2 | .1 | . 5 | *** | 5 | 0 | 24 | 0.5 |
| 3/₩-4 | 4-23-56 | Tmu Tg Tm To | 13 | 322 | 1.7 | 15 | 18 | (7)7/2 | 215 | 8 | 26 | 10.1 | .2 | 319 | 112 | 0 | | 7.9 |
| W-21 | 6-25-56 | Tmu | 16(4.9) | *** | .00 | 7.0 | 1, 6 | 2.8 | 32 | .0 | 2. 5 | .1 | .0 | | 24 | 0 | 55 | 6, B |
| W-51 | 3-30-56 | Tg Tm To | 10.00 | 550 | .06 | 20 | 10 | 50 | 217 | 10 | 7.0 | .7 | 1.0 | *** | 93 | 0 | 370 | B. 0 |
| W-98 | 2- 7-85 | Tmu | 212 | 11.5 | . 07 | 16 | 8.8 | 40 | 168 | 12 | 8.5 | . 3 | .0 | | 76 | 0 | 307 | 8.0 |
| W-110 | 4-12-55 | Tmu | *** | 9900 | .04 | 22 | 7.6 | 9.2 | 115 | 9.0 | 1.5 | ,1 | .1 | *** | 88 | 0 | 204 | 7.3 |
| W-119 | 4-12-55 | Tmu | 27.2 | 200 | .00 | 20 | 12 | 25 | 160 | 12 | 6.0 | ,2 | .8 | 10.00 | 99 | 0 | 290 | 7.6 |
| W-126 | 4-12-55 | Tg Tm To Ty Tmb Tgo Ti(?) | 78.80 | *** | .01 | 10 | 9.0 | 69 | 270 | 14 | 12 | .8 | 1.4 | 12.0 | 62 | 0 | 472 | 7, 9 |

Table 5 .- Chemical analyses of water from selected wells in Escambia County, Ala .- Continued

| | | | | | | | | Sodium | | | | | | | Hard as C | ness iCOn | | |
|---------|--------------------|---------------------------|-------------------------------|-----------------------|--------------|-----------------|------------------------|--------------------------------------|----------------------------|------------------|------------------|----------------------|------------------|---------------------|--------------------------------------|-----------------------------|---|------|
| Well | Date of collection | Water- bearing unit | Silica (SIO ₂) | Alumi- num (A1) | Iron (Fe) | Calcium (Ca) | Mag- nestum (Mg) | (Na) and Potas- sium (K) | Bicar- bonate (HCO3) | Sulfate (SO4) | Chloride (Cl) | Fluo- ride (F) | Nitrate (NO3) | Dissolved solids | Cal- clum, mag- ne- sium | Non- car- bon- ate | Specific conduct- unce (micro- mhos at 25°C) | рĦ |
| X-37 | 6-26-56 | Tel | 2000 | 5,5,5 | 0,00 | 2.4 | 2.2 | 4.6 | 10 | 1.0 | 4.5 | 0.1 | 11 | 430 | 15 | 7 | 53 | 6, 5 |
| X-106 | 4- 1-55 | Tmu | 8.64 | 1.53 | .01 | 1.7 | 1.2 | 3, 4 | 7 | 2.0 | 5. 5 | . 3 | , 1 | 9.55 | 9 | 3 | 32 | 5. 9 |
| X-107 | 8-21-45 | Tmu | | 1/1/1 | 122 | | | 25.5 | 5 | 2 | 4 | . 0 | .0 | 1.1.1 | 8 | 4 | 9990 | 100 |
| Y-23 | 6-22-56 | Tel | *** | 117 | 100 | 1.2 | .2 | 444 | 7 | .0 | 2.6 | .0 | .0 | 244 | 4 | 0 | 16 | 6.4 |
| 4/ Z-71 | 7- 3-48 | Tel | 0.4 | 0.3 | .3 | .0 | . 2 | *** | 2. 5 | 6.5 | 3.5 | | 222 | *** | 31 | 1 | *** | 100 |
| Z-72 | 8-31-45 | Tei | *** | *** | 13.1 | *** | | | 5 | 1 | 5 | .0 | .0 | 112 | 12 | 8 | 5.55 | |
| 4/ Z-72 | 7- 3-48 | Tel | 8.0 | .0 | .3 | .9 | 3 | | 2.5 | 6.5 | 3.5 | *** | *** | 60.0 | 31,0 | 1 | 244 | |
| Z-73 | 4- 1-55 | Tmu | | | .00 | 2,2 | 1.1 | 3.0 | 9 | 1.5 | 5,0 | .2 | 1 | *** | 10 | 3 | 30 | 5.9 |

^{1/} Sodium 12, potassium 5.4, color 9. 2/ Sodium 12, potassium 2.7. Sy Sodium 45; analysis by A. W. Williams Inspection Co. 4/ Analysis by Pittaburg Testing Laboratories.

Table 6.-Depth of geologic units based on electric logs of water and oil test wells, Escambia County

(All depths given in feet below land surface. Well numbers, where given, correspond with those in plate 1 and tables 2, 4, 5, and 7.)

| | | | | | Depths penet | rated | | |
|----------|--------------------------------------|--|---|--|---|---|--------------|------------------|
| Well | Location | Altitude of land surface (fest) | Citronelie Formation and Miocene Series | Chickness whay Limestons and Bucatuma Clay Member of Byram Formation | Glendon Limestone Momber of Byram Formation, Marianna Limestone, Red Bluff Clay, and Ocala Limestone | Yazoo Clay, Moodys Branch Formation | Gosport Sand | Lisbon Formation |
| Oil lest | 8E4NW4 sec. 10, T. 3 N., R. 10 E. | 251 | 0-100 | 100-200 | 200-290 | 290-400 | 400-415 | 415-360 |
| Do. | NE(SW(sec. 21, T. 3 N., R. 10 E. | 200 | | **** | 240-315 | 315-415 | 415-425 | 425-600 |
| Do. | 6W1NW1 sec. 8, T. 3 N., R. 9 E. | 319 | 3444 | 54534 | 395-480 | 480-570 | 870-890 | 590-995 |
| Do. | SEINEI sec. 16, T. 3 N., R. 6 E. | 225 | (* * * *) | 0.1-1/0.1 | F4.474. | *614-585 | 565-570 | 570-725 |
| Do. | NE(SW) sec. 16, T. 3 N., R. 6 E. | 338 | 0-400 | 400-520 | 520-635 | 635-750 | 760-760 | 760-900 |
| Do. | NEINEI sec. 10, T. 2 N., H. 5 E. | 285 | 0-695 | 595-730 | 730-840 | 840~915 | 915-940 | 940-1,040 |
| Do. | SEINEI sec. 18, T. 2 N., R. 5 E. | 313 | 37,537 | *750~800 | 800-900 | 900-980 | 980-995 | 995-1,110 |
| Do. | BW:NE: sec. 31, T. 2 N., R. 6 E. | 192 | (-4.4)4(4) | +566-625 | 825-725 | 725-800 | 800-630 | 830-970 |
| Do. | NE;NE; sec. 29, T. 2 N., R. 5 E. | 291 | 0-650 | 650-765 | 785-885 | 885-970 | 970-990 | 990-1, 120 |
| Do. | 6W16E1 sec. 32, T. 2 N., R. 6 E. | 252 | 277.5.5 | 4.554 | | | 1,005-1,020 | 1,020-1,180 |
| Do. | BW18E1 sec. 34, T. 2 N., R. 6 E. | 251 | 0~660 | 660~820 | 820-895 | 895-965 | 965-985 | 985-1, 155 |
| Do. | NW15W1 sec. 35, T. 2 N., R. 6 E. | 261 | 0-670 | 670-820 | 820-905 | 905-975 | 975-995 | 995-1, 160 |
| Do. | SW#SE# sec. 4, T. 2 N., R. 6 E, | 185 | *,*,*,* | 33533 | | *625-590 | 590-510 | 610-745 |
| Do. | SE‡5W‡ sec. 9, T. 2 N., H. 6 E. | 254 | 1511515 | +429-515 | 515-610 | 610-710 | 710-720 | 720-870 |

Table 6.-Depth of geologic units based on electric logs of water and oil test wells, Escambia County-Continued

| | | 6 | | | Depths penet | rated | | |
|----------|---------------------------------------|--|--|---|---|---|--------------|------------------|
| Well | Location | Altitude of land surface (feet) | Citronelle Formation and Miocene Series | Chickess whay Limestone and Bucatuma Clay Member of Byram Formation | Glendon Limestone Member of Byram Formation, Marianna Limestone, Red Bluff Clay, and Ocala Limestone | Yazoo Clay, Moodys Branch Formation | Gosport Sand | Lisben Formation |
| Cil test | NEINEI sec. 20, T. 2 N., R. 8 E. | 311 | 0-470 | 470-800 | 600-700 | 700-805 | 805-826 | 825-945 |
| Do. | EWINE! sec. 34, T: 2 N., R. 6 E. | 210 | 0-500 | 500~840 | 640-736 | 736-820 | 820-655 | 855-1,000 |
| Do. | SW15E2 sec. 2, T. 2 N., R. 9 E. | 211 | **** | 23722 | 385-485 | 465-570 | 570-890 | 590-726 |
| Do. | 5W25W2 sec. 11, T. 2 N., R. 9 E. | 236 | 2772 | (Supplier) | 4444 | -630 | 630-650 | 850-770 |
| Do. | SWISWI sec. 20, T. 2 N., R. 9 E. | 241 | Deg. | 4 4 4 4 . | 500 - 585 | 586-890 | 690-710 | 710-835 |
| Do. | SW15W1 sec. 33, T. 2 N., R. 9 E. | 237 | 1777 | +5 27 -610 | 610-695 | 695-805 | 805-830 | B\$Q-965 |
| Do. | SW(SW) sec. 30, T. 2 N., R. 10 E. | 205 | 0-310 | 310-450 | 450-526 | 525-620 | 620-645 | 845-805 |
| Do. | NE 18W 1 sec. 0, T. 2 N., R. 11 E. | 252 | 2022 | (22222) | GVSUS | ***** | 6.44.54 | -670 |
| Do. | EE:652 sec. 19, T. 2 N., R. 11 E. | 163 | PPER | 11111 | **** | 385-490 | 490-510 | 510-665 |
| Do. | NWiNWi sec. 31, T. 2 N., R. 13 E. | 240 | CC++ | ***** | 365-430 | 430-500 | 500-515 | 515-655 |
| Do. | 5E15E1 sec. 3, T. 1 N., R. 12 E. | 205 | **** | 21122 | ***** | 75575 | 540-565 | 865-700 |
| Do. | NE#SW# sec. 15, T. 1 N., R. 12 E. | 172 | | | +390-450 | 450-565 | 655-580 | 580-710 |
| Do. | SEINWI sec. 21, T. 1 N., R: 12 E. | 174 | **** | ***** | ***** | +524-585 | 585-610 | 610-755 |
| Do. | NWiNWi sec. 17, T. 1 N., R. 11 E. | 123 | **** | 22.432 | ¥4.449 | * 518-555 | 555-575 | 675-760 |
| Do. | NWINWI sec. 30, T. 1 N., R. 11 E. | 344 | **** | **** | 540 -82 0 | 620-730 | 730~750 | 750~930 |
| Do. | SE NW sec. 36, T. 1 N., H. 11 E. | 205 | | | 490-570 | 570-660 | 680-705 | 705-875 |

| SW SW sec. 5, T. 1 N., R. 10 E. | 70 | 2000 | **** | 200 | *415-505 | 505-520 | 520-685 |
|--|---|---|---|---|--|--|--|
| | | | S-MANAGE S | ***** | 414-505 | 800 000 | 020-000 |
| EWINWI sec. 7, T. 1 N., R. 10 E. | 63 | **** | 2.77411 | **** | -550 | 550-570 | 570-720 |
| SE 15W 2 sec. 15, T. 1 N., R. 10 E. | 99 | **** | *300-410 | 410-490 | 490-810 | 610-620 | 620-790 |
| SE4SE4 sec. 3, T. 1 N., R. 9 E. | 186 | | **** | 540-630 | 630-725 | 725-745 | 745-890 |
| NW1NW1 sec. 6, T. 1 N., R. 9 E. | 95 | | ***** | *510-570 | 570-680 | 860-700 | 700-860 |
| BEINW: sec. 18, T. 1 N., R. 9 E. | 194 | 4.6-4 | *515-875 | 675-760 | 760-850 | 850-875 | 875-1, 026 |
| SWINE: sec. 22, T. 1 N., R. 9 E. | 65 | **** | 12241 | 500-585 | 585-705 | 705-720 | 720-865 |
| SE NW sec. 29, T. 1 N., R. 9 E. | 64 | 4.4.4.4 | *415-530 | 530-605 | 805-720 | 720-735 | 735-870 |
| NW18E1 sec. 32, T. 1 N., R. 9 E. | 87 | (1.0.0) | 14.577 | ***** | 22.22 | 14144 | -940 |
| SE4SE4 sec. 2, T. 1 N., R. 8 E. | 117 | 1000 | *420-560 | 560-650 | 650-740 | 740-760 | 760-920 |
| SE4SW4 sec. 4, T. 1 N., R. 8 E. | 232 | 1111 | **** | 474.3 414 | *825-905 | 905-925 | 925-1,070 |
| NW\u00e4NE\u00e4 sec. 7, T. 1 N., R. 8 E. | 244 | 0-580 | 580-736 | 735-860 | 860-915 | 915-935 | 935-1,050 |
| SE NE sec. 10, T. 1 N., R. 8 E. | 237 | 0-585 | 585-720 | 720-820 | 820~895 | 895-915 | 915-1,076 |
| SE 18E 1 sec. 11, T. 1 N., R. 8 E. | 164 | 0-470 | 470-630 | 630-730 | 730-810 | 810-830 | 830-960 |
| SWiNWi sec. 13, T. 1 N., R. 8 E. | 81 | *** | *520-560 | 580 - 650 | 650 - 740 | 740-760 | 760-900 |
| EWINEI sec. 10, T. 1 N., R. 7 E. | 215 | 0-570 | 570-750 | 750-870 | B70-930 | 930-950 | 850-1, 100 |
| NE:SE: sec. 21, T. 1 N., R. 7 E. | 284 | 0-875 | 675-840 | 840-945 | 945-1,000 | 1,000-1,025 | 1, 025-1, 135 |
| NE¦NWł sec. 26, T. 1 N., R. 7 E. | 247 | 0-620 | 620-790 | 790-990 | 900-945 | 945-960 | 960-1,090 |
| NE 28E 2 sec. 1, T. 1 N., R. 6 E. | 277 | 0-685 | 665-820 | 820-940 | 940-990 | 990-1, 015 | 1,015-1,150 |
| | T. 1 N., R. 10 E. SEYSWY SEC. 18, T. 1 N., R. 10 E. SEYSEY SEC. 3, T. 1 N., R. 9 E. NY/1NWY SEC. 2, T. 1 N., R. 9 E. SEYNEY SEC. 22, T. 1 N., R. 9 E. SEYNEY SEC. 23, T. 1 N., R. 9 E. SEYNEY SEC. 23, T. 1 N., R. 9 E. SEYSWY SEC. 23, T. 1 N., R. 9 E. SEYSWY SEC. 24, T. 1 N., R. 8 E. SEYSWY SEC. 10, T. 1 N., R. 8 E. SEYSWY SEC. 10, T. 1 N., R. 8 E. SEYSWY SEC. 11, T. 1 N., R. 8 E. SEYSWY SEC. 11, T. 1 N., R. 8 E. SEYSWY SEC. 11, T. 1 N., R. 8 E. SEYSWY SEC. 11, T. 1 N., R. 8 E. SEYSWY SEC. 10, T. 1 N., R. 8 E. SEYSWY SEC. 10, T. 1 N., R. 8 E. SEYSWY SEC. 10, T. 1 N., R. 8 E. SEYSWY SEC. 10, T. 1 N., R. 8 E. SEYSWY SEC. 10, T. 1 N., R. 7 E. NEYSWY SEC. 20, T. 1 N., R. 7 E. NEYSWY SEC. 20, T. 1 N., R. 7 E. NEYSWY SEC. 20, T. 1 N., R. 7 E. NEYSWY SEC. 20, T. 1 N., R. 7 E. | T. 1 N., R. 10 E. SELSEW'S SEC. 15. T. 1 N., R. 10 E. SELSEL SEC. 3. T. 1 N., R. 9 E. NWINW'S SEC. 3. T. 1 N., R. 9 E. SELSEW'S SEC. 23. T. 1 N., R. 9 E. SELSEW'S SEC. 23. T. 1 N., R. 9 E. SELSEW'S SEC. 23. T. 1 N., R. 9 E. SELSEW'S SEC. 23. T. 1 N., R. 9 E. SELSES'S SEC. 2. T. 1 N., R. 8 E. SELSES'S SEC. 2. T. 1 N., R. 8 E. SELSES'S SEC. 2. T. 1 N., R. 8 E. SELSES'S SEC. 1. T. 1 N., R. 8 E. SELSEW'S SEC. 1. T. 1 N., R. 8 E. SELSEW'S SEC. 1. T. 1 N., R. 8 E. SELSEW'S SEC. 11. T. 1 N., R. 8 E. SELSE SEC. 11. T. 1 N., R. 8 E. SELSE SEC. 11. T. 1 N., R. 8 E. SELSE SEC. 11. T. 1 N., R. 8 E. SELSE SEC. 11. T. 1 N., R. 8 E. SELSE SEC. 11. T. 1 N., R. 8 E. SELSE SEC. 11. T. 1 N., R. 7 E. NELSES SEC. 21. T. 1 N., R. 7 E. NELSES SEC. 21. T. 1 N., R. 7 E. NELSES SEC. 21. T. 1 N., R. 7 E. NELSES SEC. 1. Tin, R. 10 E. SE # # # # # # # # # # # # # # # # # # # | Tin, Rio E. SE # # # # # # # # # # # # # # # # # # # | T. I N., R. 10 E. ### ### ### ### ### ### ### ### ### # | Tin, Rio E. ### ### ### ### ### ### ### ### ### # | T. I.N., R. 10 E. ### ### ### ### ### ### ### ### ### # |

| | | | | | Depths penet | rated | | |
|----------|---------------------------------------|--|--|---|--|---|--------------|------------------|
| Wall | Location | Altitude of land surface (feet) | Citronelle Formation and Miccone Series | Chickness whay Limestone and Bucatunna Clay Member of Byram Formation | Glendon Limestone Member of Byram Formation, Marianna Limestone, Red Bluff Clay, and Ocala Limestone | Yazoo Clay, Moodys Branch Formation | Gosport Sand | Lisbon Formation |
| Oil test | SE‡NE‡ sec. 12, T. 1 N., R. 6 E. | 269 | 0-695 | 695-850 | 850-935 | 935-1,020 | 1,020-1,040 | 1, 040-1, 190 |
| Do. | NW:NW: sec. 14, T. 1 N., R. 6 E. | 298 | 0-685 | 665 -840 | 840-950 | 950-1,015 | 1,015-1,030 | 1,030-1,180 |
| Do. | SE4SE4 sec. 26, T. 1 N., H. 6 E. | 262 | 0-700 | 700-890 | 890-985 | 985-1,050 | 1,050-1,060 | 1,060-1,170 |
| Do. | NW#SE# sec. 3, T. 1 N., R. 5 E. | 293 | 0-695 | 695-685 | 886~986 | 985-1,050 | 1,050-1,065 | 1,065-1,180 |
| A- 1 | NW1NE1 sec. 5, T. 3 N., R. 13 E. | 161 | 2322 | .1277.5 | 2755 | * 65-126 | | **** |
| A- 4 | NW{NE{ sec. 7, T. 3 N., R. 13 E. | 147 | ¥9.29 | ***** | 700000 | 75-200 | 200-220 | *220-227 |
| A- 7 | BE2NW2 sec. 8, T. 3 N., R. 13 E. | 137 | **** | 19444 | **** | * 54-163 | ***** | * * * * * |
| A-13 | NWiNEi sec. 19, T. 3 N., R. 13 E. | 156 | 800 | | 90000 | *135-180 | (estertial) | orange. |
| A-15 | SW1SE1 sec. 20, T. 3 N., R. 13 E. | 120 | 1000 | 10000 | 17.5 7.5 5 | * 85-154 | * * * * *. | 4, * * * * |
| A-18 | EWINE: sec. 29, T. 3 N., R. 13 E. | 123 | | **** | = 22-8 0 | * 80-168 | | |
| D-15 | SW25W2 sec. 11, T. 3 N., R. 10 E. | 169 | 100 | (2222) | *120-190 | *190-296 | (a) a (a (a) | |
| F-13 | SE NE 4 sec. 23, T. 3 N., R. 6 E. | 176 | 1000 | (*****) | +302-363 | *383 -376 | (5)5(5)5(5) | (******* |
| 0-73 | SWINE sec. 13, T. 2 N., R. 10 E. | 117 | 1300 | 255555 | *209-280 | | (*****) | **** |
| 0-79 | BE NE sec. 8, T. 2 N., R. 10 E. | 165 | **** | *240-317 | 317-405 | 7-22 | **** | 22224 |
| 0-85 | 8E#8E# sec. 18, T. 2 N., R. 10 E. | 135 | 15.00 | **** | *323-392 | 392-500 | 600-515 | 516-665 |

| 0-122 | NE†SW† sec. 28, | 80 | 10.00 | (35.655.6) | *290-345 | 345-450 | 450-475 | *475-500 |
|-------|---|-----|--------|------------|----------|-----------|---------|-----------------|
| 0-138 | T. 2 N., R. 10 E. NW{NW{ sec. 28, | 113 | 0.557 | | 305-380 | 350-494 | 494-500 | *506-547 |
| 0-140 | T. 2 N., R. 10 E. NEINEI sec. 29, T. 2 N., R. 10 E. | 116 | 9394 | | | 151655 | | *577-617 |
| 0-141 | NEINEI sec. 29, T. 2 N., R. 10 E. | 90 | 0-155 | 165-285 | 285-360 | 360-455 | 455~480 | 480-630 |
| 0-147 | NE(SE) sec. 29, T. 2 N., R. 10 E. | 77 | **** | | ***** | (*)****** | | +576-598 |
| 0-150 | SE†SW‡ sec. 29, T. 2 N., R. 10 E. | 165 | 0-229 | 229-366 | 366-440 | 440-546 | 548-585 | 565-720 |
| P-30 | NW#SW# sec. 29, T. 2 N., R. 11 E. | | 1002 | (72)(2) | 250-837 | 160000 | 7,000 | |
| P-39 | NE BE 2 sec. 35, T. 3 N., R. 10 E. | 91 | | (****** | **** | *295-402 | 4.4 | (A.S. B. B. B.) |
| Q-58 | SE1SE1 sec. 16, T. 2 N., R. 12 E. | 101 | **** | 26-99 | 99-195 | *195-202 | **** | 1500 |
| Q-65 | NW1NW1 sec. 28, T. 2 N., R. 12 E. | 104 | **** | 97-152 | *153-160 | 71250 | **** | 027222 |
| R- 7 | NW15W1 sec. 4, T. 2 N., R. 13 E. | 116 | 2.72.2 | | 0.000 | *145-217 | **** | 24434V |
| R- 9 | NE 18E 1 sec. 5, T. 2 N., R. 13 E. | 110 | ¥495 | ***** | *107-125 | 125-223 | ***** | (456866) |
| V- 1 | NE¦NE¦ sec. 1, T. 1 N., R. 10 E. | 84 | 5553 | ***** | *300-310 | 3.8383 | | Salata Aria |
| V- 0 | SW\(\frac{1}{2}\)NW\(\frac{1}{2}\) sec. 2, T. 1 N., R. 10 E. | 85 | **** | 4.55 | 284-362 | 362-485 | 485-500 | *500-540 |
| V-21 | NEINE: sec. 6, T. 1 N., R. 10 E. | 89 | **** | | 333-39B | 398-505 | 505-520 | *520-560 |
| V-36 | NEŻNEŻ sec. 13, T. 1 N., R. 10 E. | 67 | 0-205 | 205-345 | 345-420 | 420-535 | 535-560 | *560-710 |
| V-42 | NW15W1 sec. 17, T. 1 N., R. 10 E. | 76 | 0-265 | 265-375 | 576-462 | 0.125.5 | (88888) | Statem |
| ₩- 4 | NE#8E# sec. 1, T. 1 N., R. 9 E. | 108 | 0-250 | 250-390 | 390-485 | 465-575 | 675-588 | 588-736 |

^{*} Top or bottom of electric log data, full thickness of geologic unit not penetrated.

Table 7.-Drillers' logs of wells in Escambia County, Ala.

(Well numbers correspond with those shown in plate 1 and tables 2, 4, 5, and 6.)

| | | Thickness (feet) | Depth (feet) |
|-------------------------|------------------|----------------------|------------------------|
| Well D- | 23 | | |
| Owner: E. C. Johnson | Driller: Etherid | lge Plumbi | ng Co. |
| Chalk, sandy | | 20 35 80 25 | 20 55 135 160 |
| Well D- | 33 | | |
| Owner: Buck Burnham | Driller: Etherid | lge Plumbi | ng Co. |
| Sand, red, coarse | ndy clay layers. | 20 45 15 | 20 65 80 |
| Well D- | -36 | | |
| Owner: Philip Andrews | Driller: | Flo Drilli | ng Co. |
| Sand, clayey | | 40 40 40 | 40 80 120 |
| Well D- | 39 | | |
| Owner: C. H. Massingill | Driller: Etherid | lge Plumbi | ng Co. |
| Clay and gravel, sandy | | 20 50 20 | 20 70 90 |

Table 7 -Drillers' logs of wells in Escambia County, Ala. - Continued

| | | | ickness feet) | Dept (feet |
|-------------------------------------|------------------|-----------|------------------|---------------|
| | | | (Teet) | (reet |
| Well | D-66 | | | |
| Owner: W. D. Barrow | Driller: | Etheridge | Plumbi | ng Co |
| Sand, red, fine to medium | | | 20 | 20 |
| Sand, white, fine to medium | | | 20 | 4 |
| Clay, white, yellow | | | 40 | 8 |
| Sand, white, fine | | | 40 | 12 |
| No record | | | 42 | 16 |
| Clay, gray to yellow, fine, sandy . | | | 48 | 21 |
| Sand, medium to coarse, and clay. | | | 12 | 22 |
| Sand, very coarse, and gravel | | | 6 | 22 |
| Clay, bluish green | | | 4 | 23 |
| Limestone, tan to gray, sandy | | | 10 | 24 |
| Clay, dark gray, lumpy | | | 95 | 33 |
| Limestone, white to light gray, for | | | 40 | 37 |
| Limestone, white, sandy, soft, for | ssiliferous | | 51 | 42 |
| wes | 11 E-4 | | | |
| Owner: R. F. Lowrey | Driller: | Etheridge | Plumbi | ng Co |
| Sand | | | 20 | 2 |
| Clay | | | 10 | 3 |
| | | | 27 | 5 |
| Sand and gravel | | | | |
| Sand and gravel | | | | |
| | L E-12 | | | |
| | L E-12 | Etheridge | e Plumbi | ng C |
| Well | E-12 Driller: | Ü | e Plumbi | ing Co |
| Well Owner: Floyd Madden | Driller: | | | 4 |
| Well Owner: Floyd Madden Sand | Driller: | | 40 | 4 5 |
| Well Owner: Floyd Madden Sand | Driller: | | 40 10 | 4 5 6 |
| Well | Driller: | | 40 10 10 | Ü |

Driller: Marcus Blair

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | Thickness | Depth |
|--------------------------------------|---------------------|--------|
| | (feet) | (feet) |
| Well E-45Continued | | |
| Clay with sand layers | . 105 | 105 |
| Sand | . 15 | 120 |
| Clay | . 30 | 150 |
| Sand | . 30 | 180 |
| Limestone with sand layers | 16 | 196 |
| Sand | . 14 | 210 |
| Limestone | . 5 | 215 |
| Clay, dark gray to brown, sandy | . 70 | 285 |
| Limestone, gray, soft, fossiliferous | . 95 | 380 |
| Clay, greenish, sandy | | 400 |
| Well E-57 | | |
| Owner: W. C. Madden Driller | : Flo Drill: | ing Co |
| | | |
| Surface sand and gravel | | 5 |
| Clay, red to white | | 15 |
| Sand, coarse to very coarse | . 30 | 45 |
| Well F-3 | | |
| Owner: W. F. Watson Driller: Ether | id ge Plumbi | ng Co |
| Clay | . 40 | 40 |
| Sand and gravel | 100 | 5.8 |
| Clay and sandy clay | | 250 |
| Sand, coarse | | 270 |
| Janu, Coarse | . 20 | 210 |
| Well F-29 | | |
| Owner: Albert Bell Driller: Ether | idge Plumbi | ng Co |
| Clay | 20 | 20 |
| Clay | | 50 |
| Sand | | 85 |
| Sand and gravel | . 33 | 0.5 |
| | | |

Table 7.-Drillers' logs of wells in Escambia County, Als.-Continued

| | | Γ | hickness (feet) | Depth (feet) |
|--|--------------------|---------------|------------------------------------|--------------------------------|
| Well | H-25 | | | |
| Owner: Escambia County Board of Education | Driller: | Etherid | ge Plumbi | ng Co. |
| Clay | | | 10 | 10 |
| Sand, red | | | 10 | 20 |
| Sand and gravel | | | 10 | 30 |
| Pea gravel | | | 25 | 55 |
| Well | H-39 | | | |
| Owner: M. F. Etheridge | Driller: | Etherid | ge Plumbi | ng Co |
| Clay | | | 10 | 10 |
| | | | | |
| Sand, red | | | 13 | 23 |
| Sand, red | | | 13 50 | - |
| Sand and gravel | | | | 1000 |
| Sand and gravel | н-43 | | | 73 |
| Sand and gravel | H-43 Driller: | Etherid | 50 | 73 |
| Sand and gravel | H-43 Driller: | Etherid | 50 ge Plumbi | 23 73 ng Co. 10 45 |
| Well Owner: W. C. Keller Clay | H-43 Driller: | Etherid | 50 ge Plumbi 10 | 73 ng Co |
| Well Owner: W. C. Keller Clay | H-43 Driller: | Etherid | 50 ge Plumbi 10 | 73 ng Co 10 45 |
| Well Owner: W. C. Keller Clay | H-43 Driller: H-46 | Etherid | 50 ge Plumbi 10 35 | 73 ng Co 10 45 |
| Well Owner: W. C. Keller Clay | H-43 Driller: H-46 | Etherid | ge Plumbi 10 35 | 73 ng Co 10 45 |
| Well Owner: W. C. Keller Clay Sand and gravel Well Owner: P. L. Dees | H-43 Driller: H-46 | Etherid, Dril | ge Plumbi 10 35 ler: P. L | 78 ng Co 10 45 |

Well H-51

Owner: D. Parker Driller: D. Parker

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | Thickness | Depth |
|--|-------------|--------|
| | (feet) | (feet) |
| Well H-51Continued | | |
| Clay | . 20 | 20 |
| Sand and gravel | | 40 |
| Clay | | 45 |
| Sand and gravel | | 62 |
| Well H-68 | | |
| Owner: Hauss State Forestry Driller: I | Layne-Centr | al Co. |
| Clay, red, sandy | 15 | 15 |
| Clay, yellow, sandy | | 35 |
| Clay | | 45 |
| Sand, fine, and gravel with clay streaks | | 67 |
| Sand and gravel | | 89 |
| Sand, coarse, with yellow clay balls | | 112 |
| Clay | | 129 |
| Shale, sandy | | 134 |
| Sand | | 139 |
| Shale, gummy | | 156 |
| Sand, coarse, with clay balls | | 211 |
| Clay | . 12 | 223 |
| Clay, sandy | | 226 |
| Sand, packed | | 254 |
| Clay, sandy | . 11 | 265 |
| Sand | | 282 |
| Shale | . 8 | 290 |
| Well I-11 | | - |
| | | |
| Owner: Robert Hadley, Jr. Driller: Ether | idge Plumbi | ng Co. |
| Surface soil | . 5 | 5 |
| Clay, sandy | | 18 |
| Clay, Sandy | | |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | Т | hickness (feet) | Dept. |
|--|--|--|---------------------------|
| | | (1001) | (100) |
| | Well I-20 | | |
| Owner: R. D. Morgan | Driller: Etheridg | e Plumbi | ng Co |
| Clay | | 20 | 20 |
| Sand and gravel | | 23 | 4 |
| | Well J-5 | | |
| Owner: Frank Currie Gin Co. | Driller: Etheridg | ge Plumbi | ng Co |
| Clay | | 20 | 2 |
| Sand and gravel | | 30 | 5 |
| Sand | | 5 | 5 |
| Sand and gravel | | 25 | 8 |
| | Well J-7 | | |
| | Well 3-1 | | |
| | | | |
| Owner: Escambia County Boa of Education | ard Driller: Etheridg | ge Plumbi | ng C |
| of Education | | ge Plumbi 10 | |
| of Education | | | 1 |
| | | 10 | 1 5 |
| of Education Clay | | 10 40 | 1 5 5 |
| of Education Clay | | 10 40 5 | 1 5 5 |
| of Education Clay | | 10 40 5 25 | 1 5 5 8 |
| of Education Clay | Well J-32 Driller: Etheridg | 10 40 5 25 | 1 5 5 8 |
| of Education Clay | Well J-32 Driller: Etheridg | 10 40 5 25 | 1 5 5 8 |
| of Education Clay | Well J-32 Driller: Etheridg | 10 40 5 25 ge Plumbi | 1 5 5 8 .ng C |
| of Education Clay | Well J-32 Driller: Etheridg | 10 40 5 25 ge Plumbi 20 32 | 1 5 5 8 8 mg C 2 5 |
| of Education Clay | Well J-32 Driller: Etheridg Well J-39 Driller: Etheridg | 10 40 5 25 ge Plumbi 20 32 | ng (|
| of Education Clay | Well J-32 Driller: Etheridg Well J-39 Driller: Etheridg | 10 40 5 25 ge Plumbi 20 32 | ng (|

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | Thickness (feet) | Depth (feet) |
|---------------------------------------|---------------------|-----------------|
| Well J-39Continued | | |
| Sand and gravel | . 30 | 40 |
| Well J-40 | | |
| Owner: Adam Daughtery Driller: Etheri | dge Plumbi | ng Co. |
| Clay | | 18 50 |
| Well J-53 | | |
| Owner: Tracy Rolin Driller: Etheri | dge Plumbi | ng Co. |
| Sand, red, and gravel | | 30 60 |
| Well J-54 | | |
| Owner: Eugene Sells Driller: Etheri | idge Plumbi | ng Co. |
| Clay Sand and gravel | . 15 . 45 | 15 60 |
| Well J-55 | | |
| Owner: Will McGhee Driller: Ether: | idge Plumbi | ng Co. |
| Clay Sand and gravel | | 20 60 |
| Well J-56 | | |
| Owner: A. D. Martin Driller: Ether: | idge Plumbi | ng Co. |
| Sand, yellow | . 10 | 10 |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | Thickness | Dept |
|------------------------------------|--|---|
| | (feet) | (feet |
| Well J-56Continued | | |
| Sand and gravel | . 47 | 57 |
| Well J-63 | | |
| Owner: W. E. James Driller: Ether: | idge Plumbi | ng Co |
| Clay | . 20 | 20 |
| Sand and gravel | . 35 | 5 |
| Clay | . 30 | 85 |
| Sand | . 28 | 113 |
| Well J-69 | | |
| Owner: I. H. Lamar Driller: Ether | idge Plumbi | ng Co |
| | | |
| Clay, sandy | . 20 | 20 |
| Clay, sandy | | 30 |
| | . 10 | 30 |
| Sand | . 10 | 30 |
| Sand and gravel | . 10 | 3(5) |
| Sand | . 10 . 25 | 20 30 58 ell Co |
| Sand | . 10 . 25 Artesian W | 30 5! ell Co 2! |
| Sand | . 10 . 25 Artesian W . 25 . 33 | 30 55 ell Co 25 |
| Sand | . 10 . 25 Artesian W . 25 . 33 . 47 | 36 55 ell Cc 25 56 105 |
| Sand | . 10 . 25 Artesian W . 25 . 33 . 47 . 31 | 30 58 ell Co |
| Sand | . 10 . 25 Artesian W . 25 . 33 . 47 . 31 | 30 5! ell Co 29 50 109 |
| Sand | 10 25 Artesian W 25 33 47 31 40 | 36 55 ell Co 26 56 109 130 170 |
| Sand | 10 25 Artesian W 25 33 47 31 40 | 36 55 eell Co 2 56 10 13 17 |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | Thickness (feet) | Depth (feet) |
|--|------------------|-----------------------------|
| | (leet) | (reet, |
| Well K-7Continued | | |
| Sand, white, and gravel | 39 | 69 |
| Well K-8 | | |
| Owner: Clyde Purnell Driller: Etheric | ige Plumbi | ng Co. |
| Clay | | 20 91 |
| Well K-10 | | |
| Owner: Atmore State Prison Farm Driller: Etheric | lge Plumbi | ng Co. |
| Clay, red, sandy | 15 20 | 20 35 55 82 |
| Well K-18 | | |
| Owner: E. M. Terry Dr | iller: Ruft | ıs Bell |
| Clay. Sand, red Sand and gravel Clay. Sand and gravel. | 20 30 18 | 20 40 70 88 103 |
| Well L-13 | | |
| Owner: J. P. Booth Driller: Etheric | ige Plumbi | ng Co. |
| ClaySand, redSand and gravelClay. | 10 25 | 10 20 45 50 |

Table 7 -Drillers' logs of wells in Escambia County, Ala. - Continued

| | Thickness (feet) | Depth (feet |
|--------------------------------------|---------------------|----------------|
| Well L-13Continued | | |
| Sand and gravel | . 35 | 85 |
| Well L-20 | | |
| Owner: J. L. English Driller: Etheri | dge Plumbi | ng Co |
| Clay | . 20 | 20 |
| Sand and gravel | • | 60 |
| Clay | | 100 |
| Sand and pea gravel | | 120 |
| Well L-23 | | |
| Owner: Pete Sellers Driller: Etheri | dge Plumbi | ng Co |
| Clay. | . 20 | 20 |
| Sand and gravel | | 70 |
| Clay | | 75 |
| Sand and gravel | | 118 |
| Well L-25 | | |
| Owner: F. A. Steward Driller: Etheri | .dge Plumbi | ng Co |
| Clay | . 20 | 20 |
| Sand and gravel | | 60 |
| Clay | | 65 |
| Sand | . 15 | 80 |
| Clay | _ | 88 |
| Sand and gravel | . 25 | 110 |
| Well L-28 | | |
| Owner: A. B. Bell Driller: Etheri | dge Plumbi | ng Co |
| Clay | . 20 | 20 |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | | Thickness (feet) | Depth (feet) |
|-------------------|---------------------------|------------------------------|---------------------------------|
| | | (1661) | (Teet) |
| Well L-2 | 8Continued | | |
| Sand | | . 30 | 50 |
| Sand and gravel | | | 85 |
| We | ell L-29 | | |
| Owner: L. B. Moye | Driller: Ether: | idge Plumbi | ng Co. |
| Clay | | . 20 | 20 |
| Sand and gravel | | . 15 | 35 |
| Clay | | . 23 | 58 |
| Sand and gravel | | | 73 |
| W | ell M-2 | | |
| Owner: R. W. Odom | Driller: Ether: | idge Plumbi | ng Co. |
| Clay | | . 10 | 10 |
| Sand and gravel | | . 10 | 20 |
| Clay | | . 80 | 100 |
| Sand | | . 20 | 120 |
| Clay, sandy | | . 20 | 140 |
| Sand | | | 170 |
| Clay | | | 200 |
| Sand | | . 20 | 220 |
| | | 24550 | |
| | | | 260 |
| Shale | | . 10 | 260 270 |
| Shale | | . 10 . 50 | 260 270 320 |
| Shale | | . 10 . 50 . 70 | 260 270 320 390 |
| Shale | | . 10 . 50 . 70 | 260 270 320 390 |
| Lime, hard | | . 10 . 50 . 70 | 260 270 320 |
| Shale | | . 10 . 50 . 70 . 20 | 260 270 320 390 410 |
| Shale | ell M-9 Driller: Ether | . 10 . 50 . 70 . 20 | 260 270 320 390 410 |

Table 7 -Drillers' logs of wells in Escambia County, Ala. - Continued

| | | T | hickness (feet) | Depth (feet) |
|----------------------|----------|----------|----------------------|----------------------|
| Wel | 1 M-28 | | | |
| Owner: J. B. Godwin | Driller: | Etherida | ge Plumbi | ng Co. |
| Clay | | | 10 70 | 10 80 |
| Wel | 1 M-31 | | | |
| Owner: Otis Emmons | Driller: | Etherid | ge Plumbi | ng Co. |
| Clay, sandy | | | 20 40 20 | 20 60 80 |
| We | 11 N-7 | | | |
| Owner: J. C. Shenk | Driller: | Etherid | ge Plumbi | ng Co |
| Clay | | | 20 10 10 55 | 20 30 40 95 |
| Wel | 1 N-18 | | | |
| Owner: Carl Chavers | Driller: | Etherid | ge Plumbi | ng Co |
| Clay, red | | | 30 20 | 30 50 |
| Wel | ll N-19 | | | |
| Owner: F. M. Chavers | Driller: | Etherid | ge Plumbi | ng Co |
| Clay | | | 20 28 42 | 20 48 90 |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | Tì | nickness (feet) | Depth (feet) |
|---|---------|--|------------------------------------|
| Well N-19Continued | | | |
| Sand, yellow | | 15 | 105 |
| Clay | | 19 | 124 |
| No record | | 121 | 245 |
| Sand and pea gravel | | 25 | 270 |
| Well N-24 | | | |
| Owner: B. S. Blackmon D | riller: | Ervin C | arnley |
| Clay and gand | | 15 | 15 |
| Clay and sand | | V=000 | (-112 |
| Sand, varicolored | | 18 | 33 |
| yellow gravel | | 14 | 47 |
| Sand, white, coarse, with scattered large white g | | 27.5 | 74. |
| Well N-25 | | | |
| Owner: William Blackmon Driller: Et | heridge | Plumbi | ng Co. |
| Sand, red | | 10 | 10 |
| Clay | | 10 | 20 |
| Sand | | 10 | 30 |
| Danu | | | |
| | | 10 | 40 |
| Sand and small gravel | | 10 130 | 40 170 |
| Sand and small gravel | | | - |
| Sand and small gravel | | 130 | 170 |
| Sand and small gravel | | 130 10 | 170 180 |
| Sand and small gravel | | 130 10 12 | 170 180 192 |
| Sand and small gravel. Clay. Sand, fine. Clay and lignite. Sand, coarse, and pea gravel. | | 130 10 12 25 | 170 180 192 217 |
| Sand and small gravel. Clay. Sand, fine Clay and lignite Sand, coarse, and pea gravel. Well N-30 Owner: Roy Smith Driller: Et | heridge | 130 10 12 25 | 170 180 192 217 |
| Sand and small gravel. Clay. Sand, fine Clay and lignite Sand, coarse, and pea gravel. Well N-30 Owner: Roy Smith Driller: Et | heridge | 130 10 12 25 Plumbi: | 170 180 192 217 mg Co. |
| Sand and small gravel. Clay. Sand, fine Clay and lignite Sand, coarse, and pea gravel. Well N-30 Owner: Roy Smith Clay. Sand. | heridge | 130 10 12 25 Plumbi: 10 18 | 170 180 192 217 mg Co. |
| Sand and small gravel Clay. Sand, fine Clay and lignite Sand, coarse, and pea gravel Well N-30 Owner: Roy Smith Driller: Et Clay. Sand. Clay. | heridge | 130 10 12 25 Plumbi: 10 18 12 | 170 180 192 217 mg Co. |
| Sand and small gravel. Clay. Sand, fine Clay and lignite Sand, coarse, and pea gravel. Well N-30 Owner: Roy Smith Clay. Sand. | heridge | 130 10 12 25 Plumbi: 10 18 | 170 180 192 217 mg Co. |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | Thickness (feet) | Dept: |
|--|--|---|
| Well N-30Continued | (2004) | (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| Well IV 80 Continued | | |
| Sand | . 25 | 80 |
| Well O-16 | | |
| Owner: R. B. Hawk Driller: Gray | Artesian W | ell Co |
| Clay, sandy | . 25 | 25 |
| Sand, chalky | | 4(|
| Clay, sandy | | 68 |
| Sand, firm | | 7 |
| No record | | 8 |
| Marl, soft | | 10 |
| Marl, stiff | | 12 |
| Sand, chalky | | 13 |
| Sand, firm | | 15 |
| Marl | . 31 | 18 |
| Sand, water | . 12 | 19 |
| Sand, firm, water | . 9 | 20 |
| Rock, sandy | . 6 | 21 |
| *Well O-17 | | |
| Owner: R. B. Hawk Driller: Gray | Artesian W | ell Co |
| Owner: h. b. hawk Diller, Gray | . 10 | 1 |
| | | 2 |
| Clay, pink, sandy | 2 | |
| Clay, pink, sandy | . 10 | |
| Clay, pink, sandy | . 10 | 3 |
| Clay, pink, sandy | . 10 . 10 | 9 |
| Clay, pink, sandy Clay, pink, sand with white gravel Clay, pink, sandy, with coarse sand and fine gravel. Clay, varicolored, sandy | . 10 . 10 . 67 | 3 9 10 |
| Clay, pink, sandy | . 10 . 10 . 67 . 8 | 3 9 10 13 |
| Clay, pink, sandy | . 10 . 10 . 67 . 8 . 30 . 20 | 3 9 10 13 15 |
| Clay, pink, sandy Clay, pink, sand with white gravel Clay, pink, sandy, with coarse sand and fine gravel. Clay, varicolored, sandy | . 10 . 10 . 67 . 8 . 30 . 20 . 40 | 3 9 10 13 15 19 |
| Clay, pink, sandy | . 10 . 10 . 67 . 8 . 30 . 20 . 40 | 3 9 10 13 15 |
| Clay, pink, sandy Clay, pink, sand with white gravel Clay, pink, sandy, with coarse sand and fine gravel. Clay, varicolored, sandy Sand Clay, varicolored, sandy Sand, yellow, medium-grained, clayey Clay, varicolored, sandy Sand, white, fine to coarse-grained | . 10 . 10 . 67 . 8 . 30 . 20 . 40 . 15 . 5 | 3 9 10 13 15 19 21 |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | Thicknes | s Depth |
|--|-------------|-----------|
| | (feet) | (feet) |
| *Well O-17Continued | | |
| * Log by J. W. Cagle, U.S. Geological Survey | | |
| Well O-18 | | |
| Owner: H. E. Long Dri | ller: Marc | us Blair |
| Clay, red | 15 | 15 |
| Sand, red, fine | 35 | 50 |
| Sand, coarse, with fine to medium gravel | | 85 |
| Clay, sandy, with sand layers | | 227 |
| Clay, dark gray or black | 6 | 233 |
| Limestone | | 265 |
| Clay, black or dark gray, sandy | | 338 |
| Limestone, white, soft, fossiliferous | | 430 |
| | | |
| Well O-55 | | |
| Owner: North Brewton Baptist Church Drille: | r: Flo Dri | lling Co. |
| Sand, clayey, and sand | 170 | 170 |
| Sand, fine to medium (lost circulation) | 22 | 192 |
| Clay, green, sandy | 5 | 197 |
| Limestone, tan, sandy | 43 | 240 |
| | | |
| Well O-71 | | |
| Owner: Marcus Jordan Driller: Ether | ridge Pluml | bing Co. |
| Surface soil | . 10 | 10 |
| | . 30 | 40 |
| Clay | | |
| Clay | | 45 |
| Clay. Sand. Chalk with sand streaks. | 5 | 45 130 |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | | kness eet) | Depth (feet) |
|---|------------|--|--|
| *Well O-76 | | | |
| Owner: C. O. Waters Drill | ler: Flo | Drilli | ng Co. |
| Sand, red, coarse to fine | | 13 | 13 |
| Sand, red, medium to fine | | 10 | 23 |
| streaks | | 10 | 33 |
| Clay, pink, sandy, gravel layers | | 20 | 53 |
| Clay, white to pink, sandy | | 20 | 73 |
| Clay, white, sandy | | 60 | 133 |
| Clay, gray, sandy | | 15 | 148 |
| Sand, very fine to medium | | 15 | 163 |
| Clay, blue, with coarse gravel | | 10 | 173 |
| Sand, coarse | | 3 | 176 |
| Limestone, blue-gray, sandy (cavity from 180 to | 183) | 7 | 183 |
| * Log by B. L. Bailey, U.S. Geological Surve | 3 Y | | |
| Well O-82 | ey | | |
| | | Plumbi | ng Co. |
| Well O-82 Owner: S. L. Smith Driller: Eth | neridge F | | |
| Well O-82 Owner: S. L. Smith Driller: Eth | neridge F | Plumbi 45 5 | ng Co. 45 50 |
| Well O-82 Owner: S. L. Smith Driller: Eth | neridge F | 45 | 45 50 |
| Well O-82 Owner: S. L. Smith Driller: Eth | neridge F | 45 5 | 45 50 143 |
| Well O-82 Owner: S. L. Smith Driller: Eth | neridge F | 45 5 93 | 45 |
| Well O-82 Owner: S. L. Smith Driller: Eth Clay | neridge F | 45 5 93 20 | 45 50 143 163 |
| Well O-82 Owner: S. L. Smith Driller: Eth Clay | neridge F | 45 5 93 20 | 45 50 143 163 |
| Well O-82 Owner: S. L. Smith Driller: Eth Clay | neridge F | 45 5 93 20 Marcu | 45 50 143 163 |
| Well O-82 Owner: S. L. Smith Driller: Eth Clay | neridge F | 45 5 93 20 Marcu | 45 50 143 163 188 Blai |
| Well O-82 Owner: S. L. Smith Driller: Ether Clay | meridge F | 45 5 93 20 Marcu 10 10 | 45 50 143 163 188 Blai 10 20 30 |
| Well O-82 Owner: S. L. Smith Driller: Eth Clay | neridge F | 45 5 93 20 Marcu 10 10 10 | 45 50 143 163 188 Blai 10 20 30 48 |
| Well O-82 Owner: S. L. Smith Driller: Eth Clay | neridge F | 45 5 93 20 Marcu 10 10 10 18 12 | 45 50 143 163 188 Blai 10 20 30 48 60 |
| Well O-82 Owner: S. L. Smith Driller: Eth Clay | Driller: | 45 5 93 20 Marcu 10 10 10 18 12 20 | 45 50 143 163 188 Blai 20 30 48 60 80 |
| Well O-82 Owner: S. L. Smith Driller: Eth Clay | neridge F | 45 5 93 20 Marcu 10 10 10 18 12 | 45 50 143 163 188 Blai 10 20 30 48 60 |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| Sand, yellow, very coarse | 10 10 7 33 5 15 10 10 | 110 120 127 160 165 180 190 200 217 650 |
|---|--|--|
| Clay, pink to light gray, sandy | 10 7 33 5 15 10 10 | 120 127 160 165 180 190 200 |
| Clay, pink to light gray, sandy | 7 33 5 15 10 10 | 127 160 165 180 190 200 |
| Clay, pink to light gray, with sand layers | 33 5 15 10 10 | 160 165 180 190 200 |
| Sand, tan | 5 15 10 10 | 165 180 190 200 217 |
| Sand, tan | 15 10 10 | 180 190 200 217 |
| Sand and clayey sand. Limestone, tan, dolomitic, crumbly, with sand and sandy clay streaks. Clay, greenish-gray, sandy, with limestone streaks. Limestone, tan, sandy, crumbly with clayey sand and marl streaks. No record. * Log by J. W. Cagle, U.S. Geological Survey Well O-89 Owner: D. P. Liles Driller: Sand, yellow, very coarse. Sand, yellow, clayey, and clay, gray, white, black, sandy, lumpy. Sand, coarse, and pea gravel. Clay, dark gray to black *Well O-93 Owner: Flourney Lovelace Driller: | 10 10 | 190 200 217 |
| Sandy clay streaks. Clay, greenish-gray, sandy, with limestone streaks. Limestone, tan, sandy, crumbly with clayey sand and marl streaks. No record. * Log by J. W. Cagle, U.S. Geological Survey Well O-89 Owner: D. P. Liles Driller: Sand, yellow, very coarse. Sand, yellow, clayey, and clay, gray, white, black, sandy, lumpy. Sand, coarse, and pea gravel. Clay, dark gray to black *Well O-93 Owner: Flourney Lovelace Driller: | 10 | 200 217 |
| Clay, greenish-gray, sandy, with limestone streaks. Limestone, tan, sandy, crumbly with clayey sand and marl streaks. No record. * Log by J. W. Cagle, U.S. Geological Survey Well O-89 Owner: D. P. Liles Driller: Sand, yellow, very coarse | 17 | 217 |
| * Log by J. W. Cagle, U.S. Geological Survey Well O-89 Owner: D. P. Liles Driller: Sand, yellow, very coarse | (55) | ==:: |
| * Log by J. W. Cagle, U.S. Geological Survey Well O-89 Owner: D. P. Liles Driller: Sand, yellow, very coarse | 433 | 650 |
| Well O-89 Owner: D. P. Liles Driller: Sand, yellow, very coarse | | |
| Sand, yellow, very coarse | | |
| Sand, yellow, clayey, and clay, gray, white, black, sandy, lumpy | Flo Drilli | ng Co. |
| Sand, coarse, and pea gravel | 35 | 35 |
| *Well O-93 Owner: Flourney Loyelace Driller: | 50 | 85 |
| *Well O-93 Owner: Flourney Loyelace Driller: | 18 | 103 |
| Owner: Flourney Loyelace Driller: | 5 | 108 |
| | | |
| Zond nod alesses | Flo Drilli | ng Co. |
| Sand, red, clayey | 23 | 23 |
| Clay, sandy | 50 | 73 |
| Clay, blue to yellow, sandy | | 103 |
| Sand, fine | 30 ⊲ | 123 |
| Clay, gray, sandy | | 132 |
| Sand, fine, with clay layers | 20 | 100 |
| Sand, fine | 20 | 143 |
| Sand, coarse, with pea gravel | 20 | 143 160 |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | Thickness | Deptl |
|---|---|--|
| | (feet) | (feet |
| *Well O-93Continued | | |
| Sand, fine to coarse | . 7 | 180 |
| Limestone, tan, sandy, granular | | 203 |
| Sand, fine | 10 | 213 |
| Clay, dark gray to black, sandy | 70 | 283 |
| Clay, dark gray, sandy, and dark gray slightly | | |
| fossiliferous shale | 30 | 313 |
| Limestone, white, fossiliferous | 40 | 353 |
| Limestone, white, fossiliferous, and fine sand | 47 | 400 |
| | | |
| * Log by J. W. Cagle, U.S. Geological Survey | | |
| | | |
| Well O-95 | | |
| Owner: City of Brewton Driller: L | ayne-Centr | al Co |
| Clay | 12 | 1 |
| Clay and gravel | | 2 |
| Clay | | 6' |
| Clay, sandy | | 90 |
| Clay, soft streak | 11 | 15' |
| Sand and clay streaks | | 19 |
| Clay | | 194 |
| Lime rock | | 24 |
| | | 334 |
| Shale | | 44' |
| Shale | 113 | 44 |
| Lime | | 100 |
| Lime | 69 | 51 |
| Lime | 69 25 | 51 54 |
| Lime | 69 25 20 | 51 54 56 |
| Lime Shale Sand and lime breaks (water sand) | 69 25 20 23 | 51 54 56 58 |
| Lime Shale Sand and lime breaks (water sand) | 69 25 20 23 12 | 51 54 56 58 59 60 |
| Lime Shale Sand and lime breaks (water sand) Shale Sand and lime breaks Sand and lime breaks Sand. Shale | 69 25 20 23 12 | 510 541 561 584 590 600 |
| Lime Shale Sand and lime breaks (water sand) Shale Sand and lime breaks Sand and lime breaks Sand Lime rock. | 69 25 20 23 12 12 4 | 51 54 56 58 59 60 61 |
| Lime Shale Sand and lime breaks (water sand) Shale Sand and lime breaks Sand Shale Lime rock. Shale | 69 25 20 23 12 12 4 4 | 51 54 56 58 59 60 61 61 |
| Lime Shale Sand and lime breaks (water sand). Shale Sand and lime breaks Sand Shale Lime rock Shale Lime rock | 69 25 20 23 12 12 4 4 4 | 51 54 56 58 59 60 61 61 63 |
| Lime Shale Sand and lime breaks (water sand) Shale Sand and lime breaks Sand Shale Lime rock. Shale | 69 25 20 23 12 12 4 4 4 17 | 51 54 56 58 59 60 61 61 |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | Th | ickness (feet) | Depth (feet) |
|--|------------|-------------------|-----------------|
| | | (Ieel) | (ieet) |
| Well O-105 | | | |
| Owner: Isaac House D | riller: J. | o. o'F | arrell |
| Sand, red | | 20 | 20 |
| Clay, varicolored, sandy, soft | | 30 | 50 |
| Clay, light gray, sandy | | 20 | 70 |
| Clay | | 160 | 230 |
| Sand, white, fine to medium | | 30 | 260 |
| Well O-110 | | | |
| Owner: Collins Johnson Driller: | Etheridge | Plumbii | ng Co. |
| Chalk, sandy | | 20 | 20 |
| Sand | | 35 | 55 |
| Clay | | 80 | 135 |
| Sand (water) | | 25 | 160 |
| *Well O-111 | | | -30 |
| Owner: T. R. Miller Co. | Driller: | Marcus | s Blair |
| | | | |
| Gravel, white, small to large, and sand, fine to | | 1.0 | 1.0 |
| coarse | | 18 12 | 18 30 |
| Sand, white, fine to medium | | 28 | 58 |
| Clay, light gray, sandy | | 7 | 65 |
| Clay, light gray, sandy, with sand layers | | 5 | 70 |
| Sand, tan or gray, fine to medium | | 30 | 100 |
| Sand, tan or gray, fine to coarse | | 25 | 125 |
| Clay, blue, sandy | | 9 | 134 |
| Limestone, tan or gray, sandy, dolomitic, crus | | 15 | 149 |
| Sand, white, fine to coarse, micaceous | | 9 | 158 |
| Limestone with sand layers | | 12 | 170 |
| Clay, dark gray, sandy, lignitic | | 87 | 257 |
| Limestone and marl, light gray, soft, fossilife: | rous | 86 | 343 |
| Clay, green | | 7 | 350 |
| Clay, gray, sandy | | 60 | 410 |
| Marl, gray, sandy, fossiliferous | | 35 | 445 |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | Thickness | |
|---|--|---|
| | (feet) | (feet |
| *Well O-111Continued | | |
| Sand, tan, fine to medium, glauconitic | . 50 | 495 |
| Limestone and marl, fossiliferous | . 20 | 515 |
| breaks | . 15 | 530 |
| Limestone, dark gray, fossiliferous | . 5 | 535 |
| Sand, glauconitic | . 5 | 540 |
| No record | | 585 |
| Sand, medium to very coarse, glauconitic | . 30 | 615 |
| Clay, greenish-gray, plastic | . 35 | 650 |
| * Log by J. W. Cagle, U.S. Geological Survey | | |
| *Well O-129 | | |
| | | |
| Owner: Brewton Iron Works Driller: Etheri | dge Plumbi | ng Co |
| Owner: Brewton Iron Works Driller: Etheri | | S |
| Clay, blue | . 10 | 10 |
| | . 10 | 11 |
| Clay, blue | . 10 . 6 | 10 10 2: |
| Clay, blue | . 10 . 6 . 5 | 10 11 2: 4: |
| Clay, blue | . 10 . 6 . 5 . 20 | 10 10 2: 4: 6: |
| Clay, blue | . 10 . 6 . 5 . 20 . 20 | 10 11 2: 4: 6: 8: |
| Clay, blue | . 10 . 6 . 5 . 20 . 20 . 21 | 10 11 2: 4: 6: 8: |
| Clay, blue | . 10 6 . 5 . 20 . 20 . 21 . 41 . 15 | 10 11 22 44 66 83 12 13 |
| Clay, blue | . 10 . 6 . 5 . 20 . 20 . 21 . 41 . 15 | 1(1) 22 4 6 8 12 13 |
| Clay, blue | . 10 . 6 . 5 . 20 . 20 . 21 . 41 . 15 | 1(1) 22 4 6 8 12 13 |
| Clay, blue | . 10 . 6 . 5 . 20 . 20 . 21 . 41 . 15 | 10 10 22 44 66 81 12 136 14 15 |
| Clay, blue | . 10 . 6 . 5 . 20 . 20 . 21 . 41 . 15 | 10 10 2: 4: 6: 8: 12: 13: 14: 15: |
| Clay, blue Clay, fine to coarse Clay, with gravel Clay, light gray, with gravel Clay, dark gray, sandy Sand, light gray, clayey Sand, tan, medium Clay, blue gray, limey Limestone, greenish-gray, dolomitic, with limey clay lenses Limestone, tan to brownish gray, dolomitic Limestone, tan to dark gray, dolomitic, fossil fragments Clay, gray to brown, hard, sticky | . 10 . 6 . 5 . 20 . 20 . 21 . 41 . 15 | 1(1) 2: 4: 6: 8: 12: 13: 14: 15: |
| Clay, blue | . 10 . 6 . 5 . 20 . 20 . 21 . 41 . 15 | 10 10 2: 4: 6: 8: 12: 13: 14: 15: 16- 17: 23: |
| Clay, blue Clay, fine to coarse Clay, with gravel Clay, light gray, with gravel Clay, dark gray, sandy Sand, light gray, clayey Sand, tan, medium Clay, blue gray, limey Limestone, greenish-gray, dolomitic, with limey clay lenses Limestone, tan to brownish gray, dolomitic Limestone, tan to dark gray, dolomitic, fossil fragments Clay, gray to brown, hard, sticky | . 10 . 6 . 5 . 20 . 20 . 21 . 41 . 15 | 1(1) 2: 4: 6: 8: 12: 13: 14: 15: |

Well O-146

Owner: City of Brewton

Driller: A. Kimbrough

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | Thickness (feet) | Depth (feet) |
|-----------------------|---------------------|-----------------|
| | • Continued to the | - |
| Well O-146Continued | | |
| Clay, sandy | 18 | 18 |
| Sand, cream | 5 | 23 |
| Clay, red, sandy | 9 | 32 |
| Marl, black | 66 | 98 |
| Marl, sandy, and clay | 24 | 122 |
| Sand | 43 | 165 |
| Sand, cream | 8 | 173 |
| Lime rock. | 30 | 203 |
| Rock, hard | 21 | 224 |
| Marl, blue | 86 | 310 |
| Lime rock, shells | 56 | 366 |
| Shells, sand | 4 | 370 |
| Lime rock, hard | 2 | 372 |
| Lime rock, soft | 32 | 404 |
| Marl, blue, shells | | 424 |
| Lime rock, soft | 60 | 484 |
| Sand, cream, shells | | 500 |
| Sand marl | 10 | 510 |
| Lime rock, hard | 13 | 523 |
| Marl, blue | 8 | 531 |
| Lime rock, hard | 8 | 539 |
| Lime rock, soft | 4 | 543 |
| Sand. | 3 | 546 |
| Marl, blue | 16 | 562 |
| Rock, hard | | 570 |
| Sand | 18 | 588 |
| | 3 | 591 |
| Sand rock, hard | . 3 4 | 595 |
| Rock, soft | 37 | 632 |
| Marl, sandy | 24 | 656 |
| Sand, cream | | |
| Rock, hard | 26 | 682 |
| Sand | 3 | 685 687 |
| Rock, hard | 7 | |
| Marl, sandy | | 694 |
| Rock, hard | 10 | 704 |
| Shale, hard | 12 | 716 |
| Sand, white | 3 | 719 |
| Shells | | 741 |
| Rock, hard | 1 | 742 |
| Sand, fine | 2 | 744 |

Table 7 .- Drillers' logs of wells in Escambia County, Ala. - Continued

| Well O-146Continued Rock, hard. Sand, fine. Rock, hard. Sand, fine. Rock, hard. Sand rock, soft Rock, hard. Shells, soft. Rock, hard. Shells, soft. | 8 14 2 17 2 6 | 752 766 768 785 787 |
|--|------------------------------|---------------------------------|
| Sand, fine. Rock, hard. Sand, fine. Rock, hard. Sand rock, soft Rock, hard Shells, soft. Rock, hard. | 14 2 17 2 6 | 766 768 785 787 |
| Sand, fine Rock, hard Sand, fine Rock, hard Sand rock, soft Rock, hard Shells, soft Rock, hard | 2 17 2 6 | 768 785 787 |
| Rock, hard. Sand, fine Rock, hard. Sand rock, soft. Rock, hard. Shells, soft. Rock, hard. | 17 2 6 | 785 787 |
| Sand, fine | 2 6 | 787 |
| Rock, hard | 6 | |
| Sand rock, soft | - | 793 |
| Shells, soft | | |
| Rock, hard | 2 | 795 |
| Rock, hard | 7 | 802 |
| Shells soft | 13 | 815 |
| Differential portion of the contract of the co | 9 | 824 |
| Rock, hard | 2 | 826 |
| Sand | 25 | 851 |
| Rock, hard | 2 | 853 |
| Sand | 77 | 930 |
| Marl, blue | 3 | 933 |
| Rock, soft | 7 | 940 |

| Owner: City of Brewton | Driller: | Layne-Cent | ral Co. |
|---|----------|------------|---------|
| Clay, red to yellow | | 12 | 12 |
| Sand, medium to very coarse | | | 31 |
| Sand, medium to very coarse, with gray of | | | 42 |
| Clay, with gravel | | | 48 |
| Clay, yellow, with sand streaks | | 23 | 71 |
| Clay, yellow, with sand | | | 75 |
| Clay, blue, with dark gray clay balls | | | 85 |
| Sand, white, fine to medium | | | 91 |
| Clay, blue, hard | | | 112 |
| Clay, blue and yellow, sandy | | | 175 |
| Sand, white, medium, well sorted | | | 215 |
| Sand, gray, medium to very coarse | | | 229 |
| Clay, blue, hard | | 3 | 232 |
| Limestone, blue to gray, fossiliferous | | | 245 |
| Sand, black and white, fine | | | 281 |
| Sand, fine to coarse, with clay | | | 293 |
| Sand, black and white, fine, with clay stre | | | 326 |
| Clay, brown, some lignite and limestone | | | 338 |
| | | | |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | Thickness | Depth |
|---|-----------|--------|
| | (feet) | (feet) |
| *Well O-150Continued | | |
| Clay, brown, sandy, some lignite | 16 | 354 |
| Sand, black and white, fine, some clay | 7 | 361 |
| Clay, gray, marly | 5 | 366 |
| Limestone, gray, hard, fossiliferous Limestone, white, hard, with soft streaks, some | 6 | 372 |
| blue marl | 82 | 454 |
| fossiliferous. Limestone and marl, green-gray, glauconitic, | 23 | 477 |
| fossiliferous | 56 | 533 |
| fossiliferous, abundant large foraminifera Greensand, medium, very glauconitic, with limestone | 12 | 545 |
| streaks | 19 | 564 |
| fossiliferous, abundant large foraminifera. Some very hard streaks | 33 | 597 |
| Sand, white, very fine to medium, glauconitic, angular, with lime breaks | 36 | 633 |
| Limestone or marl | 3 | 636 |
| angular | 13 | 649 |
| Limestone or marl | 2 | 651 |
| angular | 4 | 655 |
| Limestone or marl | 5 | 660 |
| with lime breaks | 28 | 688 |
| angular | 33 | 721 |
| Rock, very hard | 5 | 726 |
| Shale, gray-green, massive, hard | 25 | 751 |
| fossiliferous | 2 | 753 |
| Sand, white, very fine to fine | 6 | 759 |
| very hard | 6 | 765 |
| glauconitic, fossiliferous, with sand breaks | 28 | 793 |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | Thickness | 1 |
|--|---|------------------------|
| | (feet) | (feet |
| *Well O-150Continued | | |
| 17 | | |
| Limestone or marl, with dark gray shale and thin | | |
| sand streaks | . 12 | 805 |
| Limestone or marl with sand streaks, fossiliferous. | . 18 | 823 |
| Sand, white, fine, glauconitic, with lime breaks | . 7 | 830 |
| Limestone or marl, green-gray to olive gray, | | |
| glauconitic, fossiliferous, with fine sand breaks | | 838 |
| Sand, white, fine, glauconitic | . 6 | 844 |
| Limestone or marl, green-gray to olive gray, | | |
| glauconitic, fossiliferous, with fine sand streaks. | | 868 |
| Sand | . 7 | 878 |
| Shale or clay, gray-green, carboniferous or glauco- | 4.4 | 014 |
| nitic | | 910 |
| Greensand, medium to coarse, angular, glauconitic. | | 930 |
| Greensand, fine to medium, angular, glauconitic | . 01 | 1,01 |
| | | |
| * Log by B. L. Floyd, U.S. Geological Survey | . 1 | 1,018 |
| fossiliferous | . 1 | 1,018 |
| * Log by B. L. Floyd, U.S. Geological Survey Well O-151 | | |
| fossiliferous | dge Plumb | ing Co |
| * Log by B. L. Floyd, U.S. Geological Survey Well O-151 Owner: Clyde F. O'Bannon, Jr. Driller: Etheri | dge Plumb | ing Co |
| * Log by B. L. Floyd, U.S. Geological Survey Well O-151 Owner: Clyde F. O'Bannon, Jr. Driller: Etheri Clay, sandy | dge Plumb • 15 • 25 | ing Co |
| * Log by B. L. Floyd, U.S. Geological Survey Well O-151 Owner: Clyde F. O'Bannon, Jr. Driller: Etheri Clay, sandy | dge Plumb • 15 • 25 | ing Co |
| * Log by B. L. Floyd, U.S. Geological Survey Well O-151 Owner: Clyde F. O'Bannon, Jr. Driller: Etheri Clay, sandy | dge Plumb • 15 • 25 | ing Co |
| * Log by B. L. Floyd, U.S. Geological Survey Well O-151 Owner: Clyde F. O'Bannon, Jr. Driller: Etheri Clay, sandy | dge Plumb • 15 • 25 | ing Cc 11 4 6 |
| * Log by B. L. Floyd, U.S. Geological Survey Well O-151 Owner: Clyde F. O'Bannon, Jr. Driller: Etheri Clay, sandy | dge Plumb . 15 . 25 . 23 Driller: H | ing Cc |
| * Log by B. L. Floyd, U.S. Geological Survey Well O-151 Owner: Clyde F. O'Bannon, Jr. Driller: Etheri Clay, sandy | dge Plumb . 15 . 25 . 23 Driller: H | ing Cc 18 44 65 |
| * Log by B. L. Floyd, U.S. Geological Survey Well O-151 Owner: Clyde F. O'Bannon, Jr. Driller: Etheri Clay, sandy | dge Plumb . 15 . 25 . 23 Driller: H . 10 . 10 | ing Cc 18 44 66 |
| * Log by B. L. Floyd, U.S. Geological Survey Well O-151 Owner: Clyde F. O'Bannon, Jr. Driller: Etheri Clay, sandy | dge Plumb . 15 . 25 . 23 Driller: H . 10 . 10 . 10 | ing Cc 18 44 65 |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | Thickness (feet) | Depth (feet) |
|--|---------------------|-----------------|
| Well O-159 | | |
| Owner: A. Stewart O'Bannon Driller: Ether: | idge Plumbi | ng Co. |
| Clay | 35 | 35 |
| Sand | | 55 |
| Clay. | | 150 |
| The state of the s | | 170 |
| Sand and fine gravel | . 20 | 170 |
| *Well O-161 | | |
| Owner: Jim Gibson Driller: Ether: | idge Plumbi | ng Co. |
| Clay and soil | . 10 | 10 |
| Clay, gray to red, with gravel | | 20 |
| Clay, tan to yellow, plastic | | 40 |
| Clay, tall to yellow, plastic | . 10 | 50 |
| Clay, tan to red, plastic | . 10 | 12.00 |
| Clay, tan to red, sandy | | 60 |
| Sand, white to tan, medium to coarse, poorly sorted | , | |
| with chalky clay | | 70 |
| Clay, gray to yellow, sandy | . 10 | 80 |
| Clay, blue to gray, sandy | . 50 | 130 |
| Clay, tan, sandy | . 10 | 140 |
| Clay, blue to gray, with shale and fossils | | 150 |
| Clay, brown, plastic | | 170 |
| Clay and sand | | 200 |
| Clay, tan, plastic to sandy | | 220 |
| Sand, white, medium to coarse, well sorted | | 260 |
| Said, white, medium to coarse, well sorted | . 10 | 200 |
| * Log by B. L. Floyd, U.S. Geological Survey | | |
| W. N. O. 440 | | |
| Well O-162 | * | |
| Owner: Southern Pine Coop. Assoc. Driller: | Layne-Centi | ral Co |
| Clay, sandy | . 6 | 6 |
| Sand and gravel | | 31 |
| Sand and clay | 5 to 5 | 59 |
| Rock, soft | _ | 61 |
| | . 37 | 98 |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | Thickness | Deptl |
|--|------------|-------|
| | (feet) | (feet |
| Well O-162Continued | | |
| Clay, sandy | . 11 | 109 |
| Clay | | 126 |
| Clay, soft | | 140 |
| Sand, soft, muddy | | 150 |
| Sand, fine, draggy | | 179 |
| Sand, packed | | 218 |
| Clay. | | 220 |
| Clay. | | 220 |
| Well O-174 | | |
| | | |
| Owner: City of East Brewton Driller: L | ayne-Centr | al Co |
| Clay, sandy, and gravel | . 17 | 17 |
| Sand | . 4 | 21 |
| Rock | | 3 |
| Sand and clay balls | . 23 | 54 |
| Clay | . 7 | 6 |
| Sand, muddy | | 7 |
| Shale | | 98 |
| Sand, muddy | . 14 | 11 |
| Sand, fine, packed | | 14 |
| Clay | | 148 |
| Sand, fine, hard, draggy | | 16 |
| Sand (cut good), white, medium grained | | 20 |
| Clay | | 219 |
| Sand, fine, and lime rock | | 22 |
| Lime rock and shale | | 26 |
| Shale | | 35 |
| Lime rock and shale | | 40 |
| Shale and streaks lime rock | | 42 |
| Lime rock | 8 | 43 |
| Shale and lime rock breaks | | 51 |
| Lime rock | | 54 |
| | | 55 |
| Sand | | 55 |
| Hard lime with shale | | - |
| Shale | | 58 |
| Lime rock and shale | | 60 |
| Sand, draggy | | 61. |
| Shale and lime rock | . 5 | 61 |

Table 7 -Drillers' logs of wells in Escambia County, Ala.-Continued

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| Well O-174Continued | | |
| Sand and rock breaks | 19 | 636 |
| Lime rock, hard | 12 | 648 |
| Sand, fine | 6 | 654 |
| Shale | 10 | 664 |
| Shale and lime rock breaks | 13 | 677 |
| Sand | 32 | 709 |
| Shale | 2 | 711 |
| *Well Q-49 | | |
| Owner: Gid White Driller: | Flo Drilli | ng Co. |
| Sand, yellow to white, fine to coarse | 23 | 23 |
| Clay, blue to yellow, sandy | 10 | 33 |
| Clay, blue, calcareous, and angular gravel | 19 | 52 |
| Limestone | 1 | 53 |
| Clay, black | 10 | 63 |
| Clay, black, with large gravel | 10 | 73 |
| Clay, black, sandy, fossiliferous | 10 | 83 |
| Clay, black, sandy with lime streaks | 10 | 93 |
| Sand, coarse, angular, calcareous | 2 | 95 |
| Limestone, sandy, fossiliferous | 3 | 98 |
| Limestone, white, fossiliferous, hard | 7 | 105 |
| Limestone, white, soft, fossiliferous | 24 | 129 |
| Limestone, white, hard, fossiliferous | 24 | 153 |
| Limestone, white, soft, fossiliferous | 20 | 173 |
| * Log by B. L. Bailey, U.S. Geological Survey | | |
| Well Q-64 | | |
| Owner: George Wiggins Drille | r: Isaac N | learer |
| Clay, red, and chalk | 45 | 45 |
| Sand, fine, dry | 32 | 77 |
| | | |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | Thickness (feet) | Depth (feet |
|---|---|------------------------------|
| | (reet) | (reet |
| Well Q-76 | | |
| Owner: A. C. Cook Driller | : Flo Drilli | ng Co |
| Clay, sandy | . 13 | 13 |
| Sand, coarse | | 43 |
| Gravel | | 53 |
| Gravel and clay | | 73 |
| Clay, sandy | | 83 |
| Sand | | 93 |
| Clay, sandy | | 103 |
| Clay, sandy, with hard streaks | | 113 |
| Clay, white to pink, sandy | | 128 |
| Clay, blue, with 6-inch hard streak at base | | 153 |
| Clay, dark gray to black | | 195 |
| Limestone, white to light gray, fossiliferous (bottom | | 100 |
| | | |
| 30 feet very soft) | . 98 | 293 |
| 30 feet very soft) | . 98 | 293 |
| Well S-30 | . 98 | 293 |
| Well S-30 | . 98 | |
| Well S-30 Owner: W. J. Taylor Driller | : Flo Drill: | ing Co |
| Well S-30 Owner: W. J. Taylor Driller | : Flo Drill: | ing Co |
| Well S-30 Owner: W. J. Taylor Driller | : Flo Drill: | ing Co |
| Well S-30 Owner: W. J. Taylor Driller | : Flo Drill: | ing Co |
| Well S-30 Owner: W. J. Taylor Driller Chalk | : Flo Drill: | ing Co 68 92 |
| Well S-30 Owner: W. J. Taylor Driller Chalk | : Flo Drill: 68 24 r: Albert F | ing Co 68 92 Beasle |
| Well S-30 Owner: W. J. Taylor Driller Chalk | : Flo Drill: . 68 . 24 r: Albert F | ing Co |
| Well S-30 Owner: W. J. Taylor Driller Chalk | : Flo Drill: . 68 . 24 r: Albert F | ing Co 68 92 Beasle |
| Well S-30 Owner: W. J. Taylor Driller Chalk | : Flo Drill: . 68 . 24 r: Albert F . 10 . 45 | 68 92 Beasle |
| Well S-30 Owner: W. J. Taylor Driller Chalk | : Flo Drill: . 68 . 24 r: Albert F . 10 . 45 . 35 . 10 | 68 92 Beasle |
| Well S-30 Owner: W. J. Taylor Driller Chalk | : Flo Drill: . 68 . 24 r: Albert F . 10 . 45 . 35 . 10 | ing Co 68 93 Beasle |

Well U-21

Owner: T. M. Nelson

Driller: Etheridge Plumbing Co.

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | Thickness (feet) | Depti (feet |
|--------------------|---------------------|----------------|
| Well U-21Continued | | |
| and, yellow | 10 | 10 |
| and | | 20 |
| arge gravel | | 30 |
| and | | 50 |
| lay | | 70 |
| lay, sandy | | 90 |
| and, fine | | 120 |
| and, blue, coarse | | 132 |
| *Well V-36 | | |

| Owner: Leroy Whitten | Driller: | Marcu | s Blair |
|---|----------|-------|---------|
| Clay, yellow, sandy, soft | | 7 | 7 |
| Clay, dark gray, sandy | | 13 | 20 |
| Clay, gray, sandy, with gravel | | 20 | 40 |
| Clay, light to dark gray, sandy | | 70 | 110 |
| Clay, varicolored, sandy | | 20 | 130 |
| Sand and sandy clay | | 78 | 208 |
| Limestone, tan to gray, sandy, dolomitic | | 12 | 220 |
| Limestone, tan to gray, sandy, dolomitic, fossi | | | |
| erous | | 25 | 245 |
| Clay, bluish-gray, sandy | | 15 | 260 |
| Clay, dark gray, fissile | | 86 | 346 |
| Limestone, yellowish-gray, sandy, fossiliferous | | 14 | 360 |
| Limestone, yellowish-gray, fossiliferous, with | hard | | |
| ledges | | 10 | 370 |
| Limestone, yellowish-gray, fossiliferous, softe | | | |
| above | | 60 | 430 |
| Sand, medium to very coarse | | 10 | 440 |
| Sand, gray, medium, clayey | | 10 | 450 |
| Clay, grayish-green, silty, fissile | | 50 | 500 |
| Clay, gray, fossiliferous | | 30 | 530 |
| Sandstone, greenish-yellow, glauconitic | | 25 | 555 |
| Clay, green, silty | | 35 | 590 |
| Sand, gray, fine-grained, glauconitic | | 20 | 610 |
| No record | | 63 | 673 |
| Sand, white, coarse-grained, glauconitic | | 37 | 710 |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | | kness feet) | Depth |
|---|------------|---|--|
| | (: | ieet) | (feet) |
| *Well V-36Continued | | | |
| * Log by J. C. Scott, U.S. Geological Surve | у | | |
| Well V-48 | | | |
| Owner: Y. C. Odom Driller: E | theridge l | Plumbi | ng Co. |
| Sand and gravel | | 70 | 70 |
| Clay | | 30 | 100 |
| Sand and clay | | 90 | 190 |
| Clay | | 10 | 200 |
| Sand and shell | | 35 | 235 |
| | | | |
| Well V-55 | | | |
| METT A-22 | | | |
| Owner: J. W. Capps Driller: E | theridge l | Plumbi | ng Co. |
| Owner: J. W. Capps Driller: E | | Plumbi 35 | ng Co. 35 |
| Owner: J. W. Capps Driller: E | | | _ |
| Owner: J. W. Capps Driller: E Clay, gray and yellow, sandy Clay, yellow, with limonite layers | | 35 | 35 |
| Owner: J. W. Capps Driller: E Clay, gray and yellow, sandy Clay, yellow, with limonite layers Clay, blue, sandy | | 35 5 | 35 40 |
| Owner: J. W. Capps Driller: E Clay, gray and yellow, sandy Clay, yellow, with limonite layers Clay, blue, sandy Limonite layer. | | 35 5 10 | 35 40 50 |
| Owner: J. W. Capps Driller: E Clay, gray and yellow, sandy Clay, yellow, with limonite layers Clay, blue, sandy Limonite layer. Sand, fine to medium, and blue sandy clay | | 35 5 10 5 | 35 40 50 55 |
| Owner: J. W. Capps Driller: E Clay, gray and yellow, sandy Clay, yellow, with limonite layers Clay, blue, sandy Limonite layer Sand, fine to medium, and blue sandy clay Clay, bluish-gray and yellow, and sand | | 35 5 10 5 5 | 35 40 50 55 60 |
| Owner: J. W. Capps Clay, gray and yellow, sandy Clay, yellow, with limonite layers Clay, blue, sandy Limonite layer. Sand, fine to medium, and blue sandy clay Clay, bluish-gray and yellow, and sand Clay, sandy, with sand layers | | 35 5 10 5 5 20 | 35 40 50 55 60 80 |
| Owner: J. W. Capps Driller: E Clay, gray and yellow, sandy Clay, yellow, with limonite layers Clay, blue, sandy Limonite layer. Sand, fine to medium, and blue sandy clay Clay, bluish-gray and yellow, and sand Clay, sandy, with sand layers | | 35 5 10 5 5 20 20 | 35 40 50 55 60 80 100 |
| Owner: J. W. Capps Clay, gray and yellow, sandy Clay, yellow, with limonite layers Clay, blue, sandy Limonite layer. Sand, fine to medium, and blue sandy clay Clay, bluish-gray and yellow, and sand Clay, sandy, with sand layers | | 35 5 10 5 5 20 20 | 35 40 50 55 60 80 100 |
| Owner: J. W. Capps Clay, gray and yellow, sandy | | 35 5 10 5 5 20 20 40 | 35 40 50 55 60 80 100 140 |
| Owner: J. W. Capps Clay, gray and yellow, sandy | Driller: | 35 5 10 5 5 20 20 40 | 35 40 50 55 60 80 100 140 |

Well W-4

Owner: Container Corporation of Driller: Layne-Central Co.

America

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | Chickness | Depth |
|-----------------------------|-----------|------------|
| | (feet) | (feet) |
| Well W-4Continued | | |
| Clay, sandy | 13 | 13 |
| Clay | 17 | 30 |
| Hard pan | 2 | 32 |
| Clay, sandy | 3 | 35 |
| | 6 | 41 |
| Gravel | 10 | 51 |
| Clay, sandy | 15 | 66 |
| Clay, gray, hard | 30 | 96 |
| Clay, gray, soft | 14 | 110 |
| Clay, sandy, hard | 38 | 148 |
| Lime rock with soft streaks | 36 7 | 155 |
| Clay, sandy | 23 | 178 |
| Sand, white, fine | 23 | |
| Sand, white, fine | 11 | 199 210 |
| Sand, white, fine | 3 | 210 |
| Clay, blue | | |
| Lime rock. | 36 | 249 |
| Rock, hard | 6 | 255 |
| Lime, soft | 3 | 258 |
| Rock, hard | 2 | 260 |
| Sand, draggy | 5 | 265 |
| Rock, hard | 10 | 275 |
| Shale, sandy | 14 | 289 |
| Sand | 1 | 290 |
| Clay | 8 | 298 |
| Shale, sandy | 10 | 308 |
| Clay, soft | 29 | 337 |
| Sand, very fine, muddy | 22 | 359 |
| Clay and sand streaks | 4 | 363 |
| Rock | 1 | 364 |
| Clay, hard | 25 | 389 |
| Rock | 5 | 394 |
| Lime rock, hard and soft | 35 | 429 |
| Lime rock, firm | 19 | 448 |
| Lime, hard and soft | 12 | 460 |
| Sand | 4 | 464 |
| Lime, hard and soft | 6 | 470 |
| Lime, sandy, soft | 11 | 481 |
| Clay, sandy, soft | 10 | 491 |
| Clay, sandy, soft | 12 | 503 |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| 3 | Thickness (feet) | Depth (feet |
|--|---------------------|---|
| | 1 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| Well W-4Continued | | |
| Lime, sandy, hard | 11 | 514 |
| Lime, sandy, hard | 5 | 519 |
| Rock, hard | 2 | 521 |
| Lime, hard | 15 | 536 |
| Lime, hard and soft | 23 | 559 |
| Lime, sandy | 22 | 581 |
| Rock | 1 | 582 |
| Sand, fine, draggy | 4 | 586 |
| Clay, hard | 18 | 604 |
| Clay, hard | 10 | 614 |
| Rock breaks and softer clay | 10 | 624 |
| Sand, fine | 3 | 627 |
| Sand, fine, draggy | 5 | 632 |
| Clay | 1 | 633 |
| Sand, draggy | 7 | 640 |
| Rock break, sand and rock breaks. | 5 | 645 |
| Clay | 4 | 649 |
| Clay, sandy streaks | 16 | 665 |
| The second of th | 7 | 672 |
| Clay, hard | 8 | 680 |
| | 1 | 681 |
| Rock, hard | 2 | 683 |
| Clay, soft | _ | 694 |
| Sand, fine, muddy, and streaks of rock | 11 | 200-0 |
| Clay | 4 | 698 |
| Sand, fine, muddy | 7 | 705 |
| Rock | 1 | 706 |
| Clay, hard | 10 | 716 |
| Clay | 3 | 719 |
| Sand, hard, muddy | 10 | 729 |
| Sand, hard, full of lignite | 8 | 737 |
| Clay, hard | 2 | 739 |
| Clay | 4 | 743 |
| Rock | 21 | 764 |
| No record | 21 | 785 |
| Lime rock, hard | 45 | 830 |
| Lime rock, sandy | 11 | 84 |
| Sand | 2 | 843 |
| Shale | 10 | 853 |
| Clay, hard | 2 | 855 |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | Thickness | Depth |
|---|--------------|-------|
| | (feet) | (feet |
| Well W-4Continued | | |
| Lime, soft | . 9 | 864 |
| Rock | | 871 |
| Lime, soft | | 876 |
| Rock, hard, with soft clay breaks | | 900 |
| Lime, soft and hard, with traces of shale | | 930 |
| Rock | | 932 |
| Sand, very fine, muddy | | 944 |
| Rock | | 946 |
| Sand, fine, with streaks of clay | | 967 |
| Rock | | 969 |
| Sand, fine, muddy | | 982 |
| Rock | | 983 |
| Clay | | 987 |
| Sand, fine, and streaks of clay | | 1,011 |
| Rock | | 1,012 |
| Clay, sandy | | 1,016 |
| Clay, hard | | 1,030 |
| Rock | | 1,031 |
| Clay, hard | | 1,035 |
| Sand` | . 6 | 1,041 |
| Rock | | 1,042 |
| Clay, hard, and rock breaks | . 5 | 1,047 |
| Rock | . 1 | 1,048 |
| Clay, hard | . 6 | 1,054 |
| | | |
| Well W-5 | | |
| Owner: Cravers Funeral Home Driller: Ho | lland Drilli | ng Co |
| Surface sand and clay | . 20 | 20 |
| Clay, blue, hard | . 30 | 50 |
| Sand, yellow, with clay breaks | | 80 |
| Clay, sandy | | 115 |
| Clay with sand breaks | . 25 | 140 |
| Clay, hard | . 30 | 170 |
| Sand, fine | . 10 | 180 |
| Clay | | 21 |
| Sand, fine to medium | . 40 | 25 |

BASIC DATA

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | | Thickness (feet) | Depth (feet) |
|-------------------------------------|------------------|---------------------|-----------------|
| Well V | W-19 | | |
| Owner: Joe Jackson | Driller: Etherid | ge Plumbi | ng Co. |
| Clay, red, sandy | | 15 | 15 |
| Sand and gravel | | 10 | 25 |
| Clay | | 70 | 95 |
| Sand. | | 28 | 123 |
| Well V | W-21 | | |
| Owner: L. P. Jackson | Driller: Etherid | ge Plumbi | ng Co. |
| Clay | 1.100 | 20 | 20 |
| Gravel | | 25 | 45 |
| Clay | | 180 | 225 |
| Sand | | 21 | 246 |
| Well V | W-23 | | |
| Owner: Charles Jackson | Driller: | Flo Drilli | ing Co. |
| Surface | | 12 | 12 |
| Sand and gravel | | 6 | 18 |
| Clay, varicolored, sandy | | 155 | 173 |
| Sand, fine to medium, and pea grave | | 30 | 203 |
| Clay | | 70 | 273 |
| Well V | W-25 | | |
| Owner: C. A. Rowell | Driller: Etherid | ge Plumbi | ng Co. |
| Clay, red | | 10 | 10 |
| Chalk | | 90 | 100 |
| Sand | | 10 | 110 |
| Chalk | | 100 | 210 |
| Sand, very coarse | | 10 | 220 |
| Sand, gray, very coarse | | 20 | 240 |
| bana, gray, very coarse | | 20 | 210 |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | | Thickness (feet) | Deptl (feet |
|--------------------------------|------------------------------|----------------------|----------------|
| | | (1667) | 1100 |
| W | Vell W-33 | | |
| Owner: Glenn Bailey | Driller: Etheri | dge Plumbi | ng Co |
| Clay | | . 10 | 1.0 |
| Chalk | | | 40 |
| White sand | | | 60 |
| Chalk | | | 62 |
| Oners | | | |
| W | Vell W-34 | | |
| Owner: Thelma Smith | Driller: Etheri | dge Plumbi | ng Co |
| Surface soil | nanace warene a anana a anav | . 10 | 1.0 |
| Sand | | | 45 |
| Sand and clay | | | 65 |
| Sand | | 3 | 83 |
| W | Vell W-41 | | |
| Owner: Arthur Chavers | Driller: Etheri | dge Plumbi | ng Co |
| Sumfo oo alay | | . 5 | 5 |
| Surface clay | | | 20 |
| Gravel, large | | • | 140 |
| Clay, blue, or chalk | | | |
| Sand | | | 150 |
| Pea gravel, white and blue | tytes a tend a trail a term | . 30 | 180 |
| | | | |
| W | Vell W-46 | | |
| W. Owner: Robert W. Segrest | Vell W-46 Driller: Etheri | dge Plumbi | ng Co |
| Owner: Robert W. Segrest | Driller: Etheri | | |
| Owner: Robert W. Segrest | Driller: Etheri | . 10 | 10 |
| Owner: Robert W. Segrest Clay | Driller: Etheri | . 10 . 10 | 10 20 |
| Owner: Robert W. Segrest | Driller: Etheri | . 10 . 10 . 75 | 10 |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| Owner: Walter Lowry Clay | | e Plumbi 130 | ng Co. |
|----------------------------|--------------------|-----------------|--------|
| Clay | | | ng Co. |
| Clay, sandy | | 130 | |
| Clay, sandy | | | 130 |
| Sand | | 70 | 200 |
| WA | | 25 | 225 |
| wei | 11 W-65 | | |
| Owner: J. L. Jernigan, Jr. | Driller: Etheridge | e Plumbi | ng Co |
| | | 20 | 9.0 |
| Sand | | 28 | 28 |
| Clay | | 72 | 100 |
| Clay, sandy | | 140 | 240 |
| Sand, fine | | 20 | 260 |
| Clay | | 40 | 300 |
| Sand, fine | | 50 | 350 |
| Clay | | 20 | 370 |
| Limestone | | 80 | 450 |
| Sand | | 60 | 510 |
| We | 11 W-71 | | |
| Owner: A. J. Lister | Driller: Etheridg | e Plumbi | ng Co |
| Sand and gravel | | 65 | 65 |
| Clay | | 75 | 140 |
| Clay, sandy | | 20 | 160 |
| Clay | | 75 | 235 |
| Sand and pea gravel | | 45 | 280 |
| | | | |
| We. | 11 W-77 | | |
| Owner: J. H. Brantley | Driller: Etheridg | e Plumbi | ng Co |
| Clay | | 10 | 10 |
| Clay | | 5 | 15 |
| Sand, red | | 50 | 65 |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | | Thickness (feet) | Depth (feet) |
|--------------------|---|------------------|-----------------|
| Well W-77- | -Continued | | |
| Clay, red, sandy | | | 75 |
| Clay | | | 120 |
| Sand | | | 125 160 |
| Clay | * | . 35 | 160 |
| Well | W-78 | | |
| Owner: E. Nowling | Driller: Etheri | idge Plumbi | ng Co. |
| Sand and gravel | | . 10 | 10 |
| Clay, sandy | | | 190 |
| Sand | | | 220 |
| Well | W-81 | | |
| Owner: Gus Turner | Driller; Etheri | idge Plumbi | ng Co. |
| Clay | | . 10 | 10 |
| Chalk | | . 130 | 140 |
| Clay, sandy | | | 180 |
| Sand | | . 32 | 212 |
| Well | W-85 | | |
| Owner: Bert Turner | Driller: Etheri | idge Plumbi | ng Co. |
| Clay. | | . 40 | 40 |
| Sand | | | 45 |
| Clay | | . 15 | 60 |
| Sand | | . 5 | 65 |
| Clay | | | 95 |
| Sand | | | 100 |
| Clay | | | 140 |
| Sand | | . 33 | 173 |

Table 7.-Drillers' logs of wells in Escambia County, Als.-Continued

| | Thicknes (feet) | s Depth (feet) |
|---|--------------------|-------------------|
| *Well W-98 | | |
| Owner: A. C. Congleton Driller: Ethe | eridge Plum | bing Co. |
| Clay, brown to gray, sandy | 20 | 20 |
| Sand, white, fine | 3 | 23 |
| with gravel | | 40 |
| Clay, yellow, plastic | | 46 |
| Clay, blue, red, and gray | 27 | 73 |
| breaks | | 96 |
| breaks and limonite | | 117 |
| pyrite | | 127 |
| Clay, gray to yellow, sandy, with gravel breaks . | 10 | 137 |
| Sand, white, fine to medium, some gravel | 5 | 142 |
| Clay, gray and yellow, sandy, soft | 4 | 146 |
| Clay, gray, very soft, with very fossiliferous sand | | 161 |
| Clay, gray to yellow, fossiliferous Sand, white, very fine to medium, rounded to sub- | | 224 |
| angular, fairly well sorted | 86 | 310 |
| * Log by B. L. Floyd, U.S. Geological Survey | | |
| ************************************** | | |
| *Well W-136 | | |
| Owner: Troy Brannon Driller: Eth | eridge Plum | bing Co. |
| Clay, variegated | 20 | 20 |
| Clay, red, and white sand | | 41 |
| Clay, blue and red, soft to medium hard | | 110 |
| Sand, white, very fine to medium | | 123 |
| Sand, white, very fine to medium, with clay layers | | 143 |
| Clay, blue, plastic, with fossil fragments | | 170 |
| Sand, white, fine to coarse, with fossil fragments | | 184 |
| Clay, dark blue, sandy | | 246 |
| Sand, gray, fine to coarse | 20 | 266 |
| and some lignite | | 328 |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | Thickness (feet) | Depti |
|--|---|---------------------------------------|
| *Well W-136Continued | (100 i) | (100) |
| *Well W-136Continued | | |
| Sand, gray, very fine to medium, micaceous, with | | - |
| sandy clay layers | | 350 |
| Limestone, tan, sandy, with sandy clay layers | | 379 |
| Limestone, tan, sandy, with limey clay streaks | | 389 |
| Clay, blue-green, limey, fossiliferous | | 410 |
| Sand, white, medium | 10 | 420 |
| * Log by J. W. Cagle, U.S. Geological Survey | | |
| Well W-140 | | |
| Owner: H. C. Barnes Driller: Etheric | lge Plumbi | ng Co |
| | | |
| Sand and gravel | 20 | 20 |
| Sand and gravel | | |
| Sand and gravel | 90 | 110 |
| Clay | 90 | 110 |
| Clay | 90 47 | 20 110 15' |
| ClaySand | 90 47 dge Plumbi | 110 15' |
| Clay | 90 47 dge Plumbi | 110 15' |
| Clay | 90 47 dge Plumbi 10 40 | 110 15' |
| Clay | 90 47 dge Plumbi 10 40 | 110 15' |
| Clay | 90 47 dge Plumbi 10 40 30 | 110 15' ng Cc 10 50 80 |
| Clay | 90 47 dge Plumbi 10 40 30 | 110 15° ng Co |
| Clay. Sand. Well X-1 Owner: E. L. Golden Driller: Etheric Sandy soil. Sand, red Sand, white, and gravel. Well X-9 Owner: Sidney Boutwell Driller: Etheric Clay, red, sandy. | 90 47 dge Plumbi 10 40 30 dge Plumbi | 110 15° ng Co 10 50 80 |
| Clay | 90 47 dge Plumbi 10 40 30 dge Plumbi 10 20 | 110 15° ng Co 10 50 80 |
| Clay. Sand. Well X-1 Owner: E. L. Golden Driller: Etheric Sandy soil. Sand, red. Sand, white, and gravel. Well X-9 Owner: Sidney Boutwell Driller: Etheric Clay, red, sandy. Sand, red. Gravel. | 90 47 dge Plumbi 10 40 30 dge Plumbi 10 20 8 | 110 15° ng Co 10 50 80 |
| Clay | 90 47 dge Plumbi 10 40 30 dge Plumbi 10 20 8 12 | 111 15 ng Co 1 5 8 |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | T | hickness | Depth |
|--|--|-----------------------------|---------------------|
| | | (feet) | (feet |
| Well | X-12 | | |
| Owner: S. M. Burkett | Driller: Etheridg | e Plumbi | ng Co. |
| Clay | | 10 | 10 |
| Sand and gravel | | 28 | 38 |
| Clay | | 27 | 65 |
| Sand | • | 23 | 88 |
| Well | X-16 | | |
| Owner: F. J. Knowles | Driller: Etheridg | e Plumbi | ng Co. |
| Sandy soil | | 10 | 10 |
| Clay | | 10 | 20 |
| Gravel | | 20 | 40 |
| Sand and gravel | | 34 | 74 |
| Well | X-18 | | |
| | | | |
| Owner: S. E. Emmons | Driller: Etheridg | ge Plumbi | ng Co |
| - W | The control of the co | 2000 | |
| Owner: S. E. Emmons Clay | | ge Plumbi 25 75 | ng Co. 25 100 |
| Clay | | 25 | 25 |
| ClaySand and gravel | | 25 | 25 |
| ClaySand and gravel | X-19 | 25 75 | 25 100 |
| ClaySand and gravel | X-19 Driller: Etheridg | 25 75 | 25 100 |
| Clay Sand and gravel Well Owner: J. B. Golden | X-19 Driller: Etheridg | 25 75 ge Plumbi | 25 100 ng Co |
| Clay Sand and gravel Well Owner: J. B. Golden Clay, red, sandy | X-19 Driller: Etheridg | 25 75 ge Plumbi 20 | 25 100 ng Co |

Well X-23

Owner: Solomon Hammoc Driller: Etheridge Plumbing Co.

Table 7 .- Drillers' logs of wells in Escambia County, Ala. - Continued

| Thickness Depth (feet) | | m | 1.1.1 | D . 41 |
|--|--|----------------------------|-----------|-----------------|
| Well X-23Continued 10 10 10 Sand. | | T | | Depth (feet) |
| Clay. 10 10 20 Clay. 20 40 Sand and gravel 70 110 Well X-39 Owner: W. R. Odom Driller: Etheridge Plumbing Co. Clay, red, and gravel 20 20 Sand and gravel 20 20 Well X-41 Owner: Ernest Emmons Driller: Etheridge Plumbing Co. Clay, red, sandy 20 20 Sand and gravel 54 74 Well X-46 Owner: L. W. Jordon Driller: Etheridge Plumbing Co. Clay 10 10 Sand 20 30 Clay 100 130 Sand 20 150 Well X-56 Owner: R. J. Bush Driller: Etheridge Plumbing Co. Chalk 15 15 Sand 5 20 | | | (1000) | (1001) |
| Sand. 10 20 40 Sand and gravel 70 110 Well X-39 Owner: W. R. Odom Driller: Etheridge Plumbing Co. Clay, red, and gravel 20 20 Sand and gravel 45 65 Well X-41 Owner: Ernest Emmons Driller: Etheridge Plumbing Co. Clay, red, sandy 20 20 Sand and gravel 54 74 Well X-46 Owner: L. W. Jordon Driller: Etheridge Plumbing Co. Clay 10 10 Sand and gravel 20 30 Clay 100 130 Sand 20 150 Well X-56 Owner: R. J. Bush Driller: Etheridge Plumbing Co. Chalk 15 15 Sand 5 20 | Well X-23 | Continued | | |
| Sand. 10 20 40 Sand and gravel 70 110 Well X-39 Owner: W. R. Odom Driller: Etheridge Plumbing Co. Clay, red, and gravel 20 20 Sand and gravel 45 65 Well X-41 Owner: Ernest Emmons Driller: Etheridge Plumbing Co. Clay, red, sandy 20 20 Sand and gravel 54 74 Well X-46 Owner: L. W. Jordon Driller: Etheridge Plumbing Co. Clay 10 10 Sand and gravel 20 30 Clay 100 130 Sand 20 150 Well X-56 Owner: R. J. Bush Driller: Etheridge Plumbing Co. Chalk 15 15 Sand 5 20 | Clay | | 10 | 10 |
| Clay. 20 40 Sand and gravel 70 110 Well X-39 Owner: W. R. Odom Driller: Etheridge Plumbing Co. Clay, red, and gravel 20 20 Sand and gravel 45 65 Well X-41 Owner: Ernest Emmons Driller: Etheridge Plumbing Co. Clay, red, sandy 20 20 Sand and gravel 54 74 Well X-46 Owner: L. W. Jordon Driller: Etheridge Plumbing Co. Clay. 10 10 Sand and gravel 20 30 Clay. 100 130 Sand. 20 150 Well X-56 Owner: R. J. Bush Driller: Etheridge Plumbing Co. Chalk. 15 15 Sand. 5 20 | • | | | |
| Sand and gravel 70 110 Well X-39 Owner: W. R. Odom Driller: Etheridge Plumbing Co. Clay, red, and gravel 20 20 Well X-41 Owner: Ernest Emmons Driller: Etheridge Plumbing Co. Clay, red, sandy 20 20 Sand and gravel Driller: Etheridge Plumbing Co. Clay 10 10 Sand and gravel 20 30 Clay 100 130 Sand 20 150 Well X-56 Owner: R. J. Bush Driller: Etheridge Plumbing Co. Chalk 15 15 Sand < | | | | |
| Well X-39 Owner: W. R. Odom Driller: Etheridge Plumbing Co. Clay, red, and gravel 20 20 Sand and gravel 45 65 Well X-41 Owner: Ernest Emmons Driller: Etheridge Plumbing Co. Clay, red, sandy 20 20 Sand and gravel 54 74 Well X-46 Owner: L. W. Jordon Driller: Etheridge Plumbing Co. Clay 10 10 Sand and gravel 20 30 Clay 100 130 Sand 20 150 Well X-56 Owner: R. J. Bush Driller: Etheridge Plumbing Co. Chalk 15 15 Sand 5 20 | | | 200,000 | 7-7-7-1 |
| Owner: W. R. Odom Driller: Etheridge Plumbing Co. Clay, red, and gravel 20 20 Sand and gravel 45 65 Well X-41 Owner: Ernest Emmons Driller: Etheridge Plumbing Co. Clay, red, sandy 20 20 Sand and gravel 54 74 Well X-46 Owner: L. W. Jordon Driller: Etheridge Plumbing Co. Clay 10 10 Sand and gravel 20 30 Clay 100 130 Sand 20 150 Well X-56 Owner: R. J. Bush Driller: Etheridge Plumbing Co. Chalk 15 15 Sand 5 20 | | | | |
| Clay, red, and gravel. 20 20 Sand and gravel. 45 65 Well X-41 Owner: Ernest Emmons Driller: Etheridge Plumbing Co. Clay, red, sandy 20 20 Sand and gravel 54 74 Well X-46 Owner: L. W. Jordon Driller: Etheridge Plumbing Co. Clay. 10 10 Sand and gravel 20 30 Clay. 100 130 Sand. 20 150 Well X-56 Owner: R. J. Bush Driller: Etheridge Plumbing Co. Chalk. 15 15 Sand. 5 20 | Well | 1 X-39 | | |
| Sand and gravel | Owner: W. R. Odom | Driller: Etheridg | e Plumbi | ng Co. |
| Sand and gravel | Clay, red, and gravel | | 20 | 20 |
| Well X-41 Owner: Ernest Emmons Driller: Etheridge Plumbing Co. Clay, red, sandy 20 20 Sand and gravel 54 74 Well X-46 Owner: L. W. Jordon Driller: Etheridge Plumbing Co. Clay. 10 10 Sand and gravel 20 30 Clay. 100 130 Sand. 20 150 Well X-56 Owner: R. J. Bush Driller: Etheridge Plumbing Co. Chalk. 15 15 Sand. 5 20 | Sand and gravel | | | |
| Owner: Ernest Emmons Driller: Etheridge Plumbing Co. Clay, red, sandy 20 20 Sand and gravel 54 74 Well X-46 Owner: L. W. Jordon Driller: Etheridge Plumbing Co. Clay. 10 10 10 Sand and gravel 20 30 100 130 Sand. 20 150 150 Well X-56 Owner: R. J. Bush Driller: Etheridge Plumbing Co. Chalk. 15 15 Sand. 5 20 | 32500-00 900000000000000000000000000000000 | SOUNDER PROPERTY OF STREET | | |
| Owner: Ernest Emmons Driller: Etheridge Plumbing Co. Clay, red, sandy 20 20 Sand and gravel 54 74 Well X-46 Owner: L. W. Jordon Driller: Etheridge Plumbing Co. Clay. 10 10 10 Sand and gravel 20 30 100 130 Sand. 20 150 150 Well X-56 Owner: R. J. Bush Driller: Etheridge Plumbing Co. Chalk. 15 15 Sand. 5 20 | YYY 1 | 1 37 44 | | |
| Clay, red, sandy 20 20 Sand and gravel 54 74 Well X-46 Owner: L. W. Jordon Driller: Etheridge Plumbing Co. Clay. 10 10 Sand and gravel 20 30 Clay. 100 130 Sand. 20 150 Well X-56 Owner: R. J. Bush Driller: Etheridge Plumbing Co. Chalk. 15 15 Sand. 5 20 | W e I. | 1 X-41 | | |
| Sand and gravel 54 74 Well X-46 Owner: L. W. Jordon Driller: Etheridge Plumbing Co. Clay. 10 10 Sand and gravel 20 30 Clay. 100 130 Sand. 20 150 Well X-56 Owner: R. J. Bush Driller: Etheridge Plumbing Co. Chalk. 15 15 Sand. 5 20 | Owner: Ernest Emmons | Driller: Etheridg | e Plumbi | ng Co. |
| Sand and gravel 54 74 Well X-46 Owner: L. W. Jordon Driller: Etheridge Plumbing Co. Clay. 10 10 Sand and gravel 20 30 Clay. 100 130 Sand. 20 150 Well X-56 Owner: R. J. Bush Driller: Etheridge Plumbing Co. Chalk. 15 15 Sand. 5 20 | Clay, red, sandy | | 20 | 20 |
| Owner: L. W. Jordon Driller: Etheridge Plumbing Co. Clay. 10 10 Sand and gravel 20 30 Clay. 100 130 Sand. 20 150 Well X-56 Owner: R. J. Bush Driller: Etheridge Plumbing Co. Chalk. 15 15 Sand. 5 20 | | | 54 | 74 |
| Owner: L. W. Jordon Driller: Etheridge Plumbing Co. Clay. 10 10 Sand and gravel 20 30 Clay. 100 130 Sand. 20 150 Well X-56 Owner: R. J. Bush Driller: Etheridge Plumbing Co. Chalk. 15 15 Sand. 5 20 | | | | |
| Clay. 10 10 Sand and gravel 20 30 Clay. 100 130 Sand. 20 150 Well X-56 Owner: R. J. Bush Driller: Etheridge Plumbing Co. Chalk. 15 15 Sand. 5 20 | Wel | 1 X-46 | | |
| Sand and gravel | Owner: L. W. Jordon | Driller: Etheridg | e Plumbi | ng Co. |
| Sand and gravel | | | | |
| Clay. 100 130 Sand. 20 150 Well X-56 Owner: R. J. Bush Driller: Etheridge Plumbing Co. Chalk. 15 15 Sand. 5 20 | | | - | |
| Sand. 20 150 Well X-56 Owner: R. J. Bush Driller: Etheridge Plumbing Co. Chalk. 15 15 Sand. 5 20 | Sand and gravel | | | |
| Well X-56 Owner: R. J. Bush Driller: Etheridge Plumbing Co. Chalk 15 15 Sand 5 20 | | | | |
| Owner: R. J. Bush Driller: Etheridge Plumbing Co. Chalk | Sand | | 20 | 150 |
| Owner: R. J. Bush Driller: Etheridge Plumbing Co. Chalk | 2- | | | |
| Chalk | Wel | 1 X-56 | | |
| Sand 5 20 | Owner: R. J. Bush | Driller: Etheridg | ge Plumbi | ng Co. |
| Sand 5 20 | Chalk | | 15 | 15 |
| | | | 5 | 20 |
| | | | 3 | 23 |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| Т | hickness (feet) | Depth (feet) |
|---|--------------------|-----------------|
| Well X-56Continued | | |
| Sand | 17 | 40 |
| Well X-60 | | |
| Owner: Powell's Cafe Driller: Etheridg | e Plumbi | ng Co. |
| Sand and gravel | 20 | 20 |
| Clay | 115 | 135 |
| Sand and pea gravel | 35 | 170 |
| Well X-106 | | |
| Owner: City of Flomaton Driller: Spellers Wel | l and Pur | np Co |
| Mud, blue | 12 | 12 |
| Sand | 20 | 32 |
| Clay, yellow | 42 | 74 |
| Sand, muddy | 16 | 90 |
| Sand, medium | 30 | 120 |
| Sand, coarse | 27 | 147 |
| Shale, blue | 18 | 165 |
| Well X-107 | | |
| Owner: City of Flomaton Driller: Gray An | rtesian W | ell Co |
| Clay, yellow, sandy | 5 | 5 |
| Sand, coarse, and fine gravel | 7 | 12 |
| Gravel, coarse, water | 3 | 15 |
| Pea gravel | 12 | 27 |
| | 8 | 35 |
| Graver and clay | 5 | 40 |
| Gravel and clay | | |
| Chalk, gray, and gravel | 26 | 66 |
| Chalk, gray, and gravel | 26 54 | 66 120 |
| Chalk, gray, and gravel | | 550.5 |

Table 7.-Drillers' logs of wells in Escambia County, Als.-Continued

| | Thickness (feet) | Depth (feet) |
|-------------------------------------|---|---|
| Well X-107Continued | (, | |
| Sand, coarse, with gravel and chalk | . 7 | 159 |
| Well Y-11 | | |
| Owner: Alfred Moye Driller: Etheri | dge Plumbi | ng Co. |
| Clay | 20 | 20 |
| Sand | | 40 |
| Gravel | | 58 |
| Clay | | 63 |
| Sand | | 78 |
| Clay | | 90 |
| Sand and gravel | | 120 |
| | | |
| *Well Y-20 | | |
| | | |
| Owner: C. J. Boutwell Driller: | Flo Drilli | ng Co |
| | | ng Co |
| Surface sand and clay | . 10 | 10 |
| Surface sand and clay | . 10 . 10 | 10 20 |
| Surface sand and clay | . 10 . 10 . 10 | 10 20 30 |
| Surface sand and clay | 10 10 10 10 | |
| Surface sand and clay | . 10 . 10 . 10 . 10 . 130 | 10 20 30 40 |
| Surface sand and clay | . 10 . 10 . 10 . 10 . 130 . 10 | 10 20 30 40 170 180 |
| Surface sand and clay | . 10 . 10 . 10 . 10 . 130 . 10 . 10 | 10 20 30 40 170 |
| Surface sand and clay | . 10 . 10 . 10 . 10 . 130 . 10 . 10 | 10 20 30 40 170 180 190 |
| Surface sand and clay | . 10 . 10 . 10 . 10 . 130 . 10 . 10 | 10 20 30 40 170 180 190 203 |
| Surface sand and clay | . 10 . 10 . 10 . 10 . 130 . 10 . 10 | 10 20 30 40 170 180 190 203 |
| Surface sand and clay | 10 10 10 10 130 10 10 13 37 | 10 20 30 40 170 180 190 203 240 |
| Surface sand and clay | 10 10 10 10 130 10 10 13 37 | 10 20 30 40 170 180 190 203 240 |

BASIC DATA

Table 7 .- Drillers' logs of wells in Escambia County, Ala. - Continued

| | | Thickness | |
|--------------------------------|----------------------|------------|-------|
| | | (feet) | (fee |
| Well Y-31 | Continued | | |
| Clay | | 8 | 58 |
| Sand and gravel | **** * * *** * *** * | 24 | 82 |
| Well | Y-42 | | |
| Owner: Miles Horn | Driller: Etherid | ge Plumbi | ng Co |
| Clay | | 40 | 4(|
| Sand and gravel (little water) | | 20 | 60 |
| Clay and chalk | | 20 | 80 |
| Sand and pea gravel | | 40 | 120 |
| Well | Y-57 | | |
| Owner: W. H. Fountain | Driller: Etherid | ge Plumbi | ng Co |
| Clay | | 10 | 1 |
| Sand | | 10 | 2 |
| Gravel | | 30 | 5 |
| Sand | | 40 | 9 |
| Well | Z-6 | | |
| Owner: R. L. Goldsmith | Driller: Etherid | ge Plumbi | ng Co |
| No record | | 50 | 5 |
| Clay | | 15 | 6 |
| Sand and gravel | | 33 | 9 |
| | 17.19 | | |
| Wel | 1 Z-12 | | |
| Well Owner: J. R. Criswell | Driller: Etherid | lge Plumbi | ng Co |
| | Driller: Etherid | | ng Co |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | Thickness | |
|--|---------------------|---------|
| | (feet) | (feet) |
| Well Z-16 | | |
| Owner: C. I. Davison Driller | r: Etheridge Plumbi | ng Co. |
| Sand, red, and gravel | 20 | 20 |
| Sand, coarse, and pea gravel | | 61 |
| ************************************** | | |
| Well Z-20 | | |
| Owner: A. C. Murph Driller | r: Etheridge Plumbi | ng Co. |
| No record | 20 | 20 |
| Sand and clay | | 40 |
| Gravel | | 54 |
| Clay | | 85 |
| Sand and gravel | 35 | 120 |
| | | |
| Well Z-70 | | |
| Owner: W. M. Carney Mill Co. Drille | er: Gray Artesian W | ell Co. |
| | 496, 200 | 201 197 |
| Hard pan and gravel | 50 | 50 |
| Gravel | | 60 |
| Sand and clay | 20 | 80 |
| Gravel and sand | 45 | 125 |
| Quicksand | 28 | 153 |
| Well Z-72 | | |
| Well 2 12 | | |
| Owner: City of Atmore D | riller: Layne-Centr | al Co. |
| Soil | | 1 |
| Clay | | 4 |
| Rock | 11 | 15 |
| Sand and clay | | 35 |
| Sand, fine, and gravel | 26 | 61 |
| Boulder | 1 | 62 |
| Sand and gravel | | 71 |
| Clay, tough | 11 | 82 |
| | | |

BASIC DATA

| | Thickness | - 1 |
|--------------------------------------|--------------|---------|
| | (feet) | (feet) |
| Well Z-72Continued | | |
| Sand | 5 | 87 |
| Gravel, medium | 7 | 94 |
| Sand, coarse | | 129 |
| Well Z-73 | - | |
| Owner: City of Atmore Driller: Gray | Artesian W | ell Co. |
| Clay | 18 | 18 |
| Sand and gravel | | 26 |
| Clay, sandy | | 87 |
| Clay and sand | | 97 |
| Sand and gravel | | 135 |
| Clay, sandy | | 208 |
| Sand and gravel | | 261 |
| Clay, white | | 403 |
| Well Z-76 | | |
| Owner: R. L. Goldsmith Driller: Ethe | ridge Plumbi | ng Co. |
| Clay | 20 | 20 |
| Sand and gravel | | 82 |
| Well Z-85 | | |
| Owner: R. C. Lowrey Driller: Ethe | ridge Plumbi | ng Co |
| Clay | 10 | 10 |
| Sand and gravel | | 61 |
| | | |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| | | ckness feet) | Depth (feet) |
|------------------------------------|-------|-----------------|-------------------|
| Well Z-90 | | | |
| Owner: J. T. Hobbs Driller: Ether | idge | Plumbi | ng Co. |
| Clay | | 10 | 10 |
| Sand and gravel | • | 40 | 50 |
| Well Z-93 | | | |
| Owner: J. T. Moye Driller: Ether | idge | Plumbi | ng Co. |
| Clay | | 20 | 20 |
| Sand | | 10 | 30 |
| Gravel, large, and sand | | 20 | 50 |
| Well AA-4 | | | |
| Owner: B. W. Carter Driller: Ether | idge | Plumbi | ng Co. |
| Clay, red | | 10 | 10 |
| Sand and gravel | | 20 | 30 |
| Sand, coarse | | 20 | 50 |
| Well AA-27 | | | |
| Owner: H. M. Cry Driller: | Atlas | s Drilli | ng Co. |
| | | 62 | 62 |
| Sand and clay | | | |
| Sand and clay | | 34 | 96 |
| Sand, white | | 34 22 | 96 118 |
| Sand, white | | | |
| Sand, white | | 22 | 118 |
| Sand, white | | 22 23 | 118 141 |
| Sand, white | | 22 23 49 | 118 141 190 |

Table 7.-Drillers' logs of wells in Escambia County, Ala.-Continued

| 3 | Thickness (feet) | Depth (feet) |
|---------------------------------------|---------------------|-----------------|
| Well AA-29 | | |
| Owner: Comer Curry Driller: Etheri | dge Plumbi | ng Co. |
| Sand, red, and gravel | . 40 | 40 |
| Clay | | 50 |
| Sand, fine | | 65 |
| Clay | | 70 |
| Sand | . 40 | 110 |
| Well AA-42 | | |
| Owner: H. D. Huckabee Driller: Etheri | dge Plumbi | ng Co. |
| Sand. | 30 | 30 |
| Gravel | | 80 |
| Sand | | 100 |

