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# GROUND-WATER RESOURCES OF WEST-CENTRAL INDIANA

## Preliminary Report: Parke County


Prepared by the

GEOLOGICAL SURVEY

UNITED STATES DEPARTMENT OF THE INTERIOR

In cooperation with the

DIVISION OF WATER RESOURCES

INDIANA DEPARTMENT OF CONSERVATION

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# GROUND-WATER RESOURCES OF WEST-CENTRAL INDIANA

Preliminary Report: Parke County

BY

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By F. A. Watkins, Jr., and D. G. Jordan

## ABSTRACT

Parke County, in west-central Indiana, has an area of about 451 square miles. Consolidated rocks of Mississippian and Pennsylvanian age and unconsolidated rocks of Pleistocene age are the sources of ground water for domestic, stock, industrial, and municipal supplies. Wells in Parke County vary greatly in depth and yield. Wells tapping Mississippian rocks range in depth from about 50 to 400 feet and in yield from less than 1 to about 300 gpm (gallons per minute), whereas those tapping Pennsylvanian rocks range in depth from about 40 to 350 feet and in yield from less than 1 to about 50 gpm. Some wells tapping the consolidated rocks yield no water. Wells tapping Pleistocene sand and gravel range in depth from about 20 to 180 feet and in yield from about 5 to 1,000 gpm. Field chemical analyses of water from these sources show that the chemical quality differs greatly. A modal grouping was used to find the most frequent values for the sulfate and chloride contents and for hardness of water in Parke County. This method yields the following results for water from aquifers of Pennsylvanian age: sulfate, 13 ppm (parts per million); chloride, 10 ppm; and hardness, 279 ppm; and for water from aquifers of Pleistocene age: sulfate, 16 ppm; chloride, 10 ppm; and hardness, 321 ppm. Locally, either the iron, chloride, or sulfate content will exceed the recommended standards of the U. S. Public Health Service (1946) for drinking water.

This preliminary report contains tabulated records of about 527 wells and other drilled holes giving information about well construction, water levels, conditions of occurrence, and character of the water-bearing material; selected logs for about 228 wells and other drilled holes giving the drillers' description of the material encountered and a tentative interpretation by the authors of the geologic age; records of 9 springs giving information about geologic source, yield and temperature of the water; results for 252 field chemical analyses of water from wells, 8 from springs, and 31 from streams, giving the iron, bicarbonate, sulfate and chloride contents and the hardness of water; and water levels in 5 observation wells indicating the magnitude of short and long-term water-level fluctuations in the consolidated and unconsolidated rocks. These basic data include much of the material to be used in an interpretive report on the ground-water resources and geology of the area.

A map of Parke County shows the location of all water wells, holes drilled for purposes other than water supply, springs, and stream sampling sites listed in this report. Additional maps show availability of ground water and generalized quality of water conditions with respect to hardness of water, and areas of high chloride or sulfate contents.

## INTRODUCTION

### Purpose and Scope

An investigation of the ground-water resources and geology of nine counties in west-central Indiana has been conducted intermittently since 1950. In 1956 the investigation was placed on a full-time basis and another county was added to the area of study. This investigation is being made by the U. S. Geological Survey in cooperation with the Division of Water Resources, Indiana Department of Conservation, as a part of a broad program of these agencies to inventory and evaluate the ground-water resources of Indiana.

This report is the seventh of a series of preliminary reports to be published on the ground-water resources and geology of west-central Indiana. The purpose of this report is to make the basic data collected during the investigation available to the public and to provide a preliminary evaluation of the ground-water conditions and the geology as an aid to the development of the ground-water resources. A more detailed and comprehensive analysis will be published in an interpretive report on the ground-water resources and geology of the area.

The investigation was made under the immediate supervision of F. H. Klaer and C. M. Roberts, successive district geologists for Indiana.

### Location and Areal Extent

Parke County is in the west-central part of Indiana (fig 1). The county is roughly rectangular and has an area of about 451 square miles. It is bounded on the north by Montgomery and Fountain Counties, on the east by Montgomery and Putnam Counties, on the south by Clay and Vigo Counties, and on the west by Vermillion County.

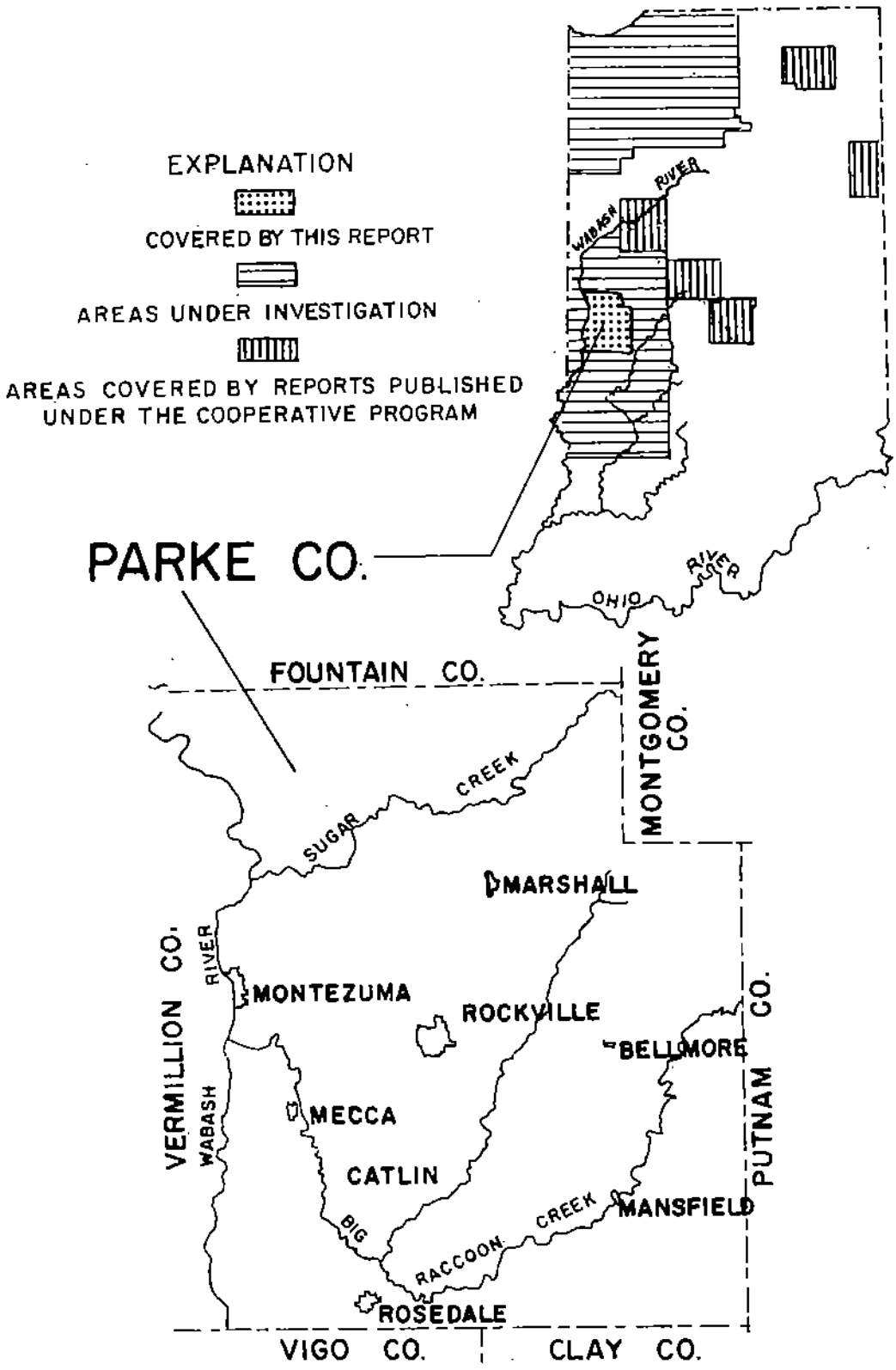


FIGURE . -- Map of Indiana showing area covered by this report, areas under investigation, and areas covered by reports published under the cooperative program.

## Well-numbering System

A numbering system is used to locate and identify the wells, holes drilled for purposes other than water supply, and springs in this report. The number assigned indicates the location according to the official rectangular survey of public lands. For example, in the number for well 16/7W-35Q1, the part preceding the hyphen indicates that the well is in T. 16 N., R. 7 W. The first number after the hyphen indicates the section in which the well is located. Each quarter-quarter section (40-acre tract) within a section is given a letter symbol as shown on figure 2. Within the quarter-quarter section, wells are numbered serially. Therefore, well 16/7W-35Q1 is the first well listed in SW¼SE¼ sec. 35, T. 16 N., R. 7 W.

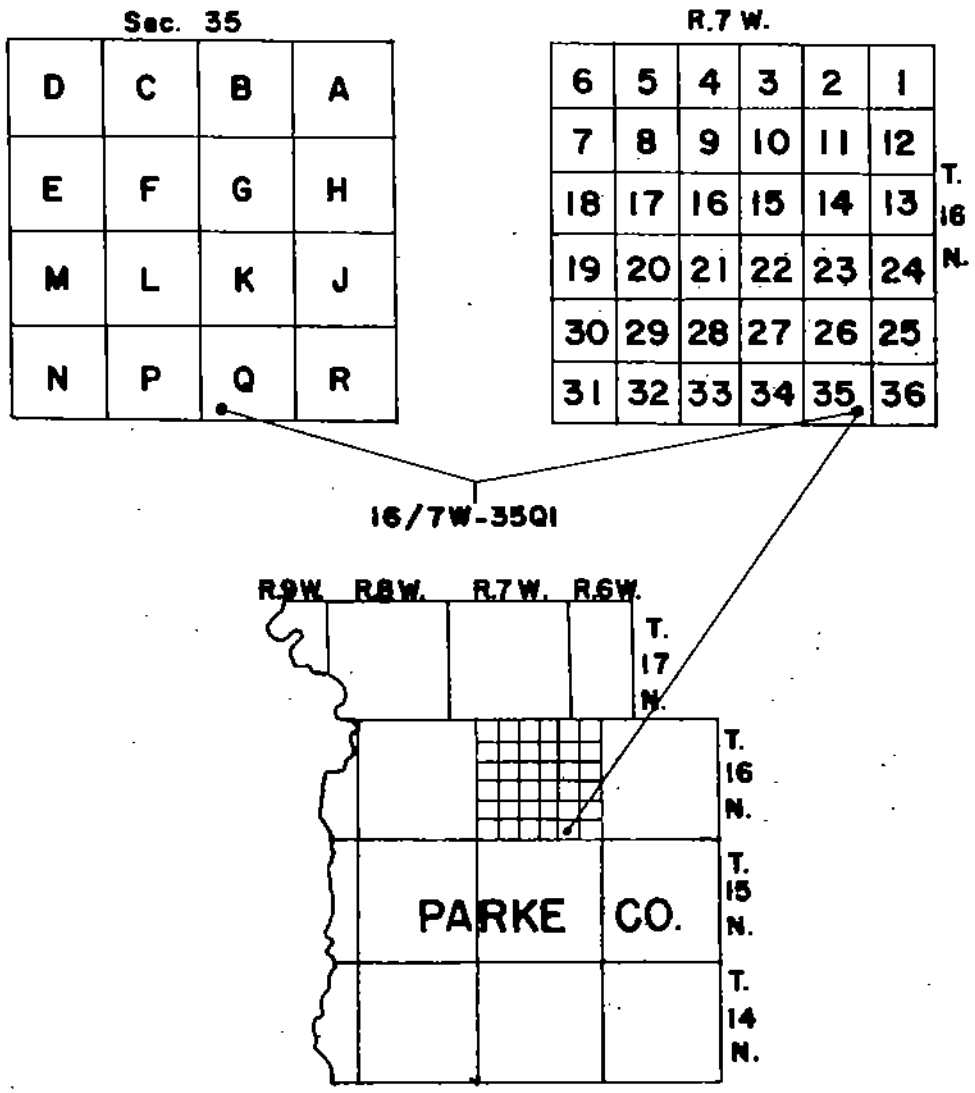


**FIGURE 2.-- Sketch showing well-numbering system**

Acknowledgments

The authors thank all persons who contributed time, information, and assistance during the collection, tabulation, and processing data for this report. We especially thank the well drillers listed in the table of well records who furnished much of the information summarized in tables 4 and 5.

The authors also thank the following government agencies which provided information for the report: the Division of Oil and Gas, the Division of Water Resources, and the Coal Section and the Geophysics Section of the Geological Survey, all of the Indiana Department of Conservation; and the Indiana State Highway Department; and the Corps of Engineers, U. S. Army.

## DATA COLLECTION AND PROCESSING

The well data were collected from drillers, water works superintendents, and others. The well records obtained from drillers were of two types--- written records and reports from memory. A tentative driller's location of the well record was obtained at the time of collection and this was checked against the property records in the county courthouse to verify the location, to locate the property, and to obtain the name of the current property owner. The well location was then checked in the field and its location plotted on the appropriate U. S. Geological Survey 7½-minute topographic quadrangle map. The locations given on the records of test holes, oil or gas exploration holes, and wells from other reports were accepted without further verification.

Plate 1 shows the location of water wells, oil wells, test holes, or holes drilled for purposes other than water supply, springs, and stream sampling sites. All locations are accurate to the nearest quarter-quarter section and most locations are shown to the nearest 10 acres or quarter-quarter-quarter section. The basic data for these wells and holes drilled for purposes other than water supply are summarized in table 4. Selected drillers' logs of wells and other drilled holes with tentative interpretations by the authors of the geologic age of the materials encountered are given in table 5. Basic data for the springs are summarized in table 7.

Samples of water were collected at the time well and spring sites were visited and from streams during a period of low flow. The samples were analyzed in the field for hardness of water, alkalinity (expressed as bicarbonate) and chloride content by standard titration methods. Sulfate was determined by a turbidimetric method using a colorimeter where concentrations were below 100 ppm (parts per million) and by a standard titration method where concentrations exceeded 100 ppm. The iron content was determined at the well site by the bipyridine method by comparison with standard color ampules having known iron concentrations. The results of these analyess (tables 6, 7 and 8) were used to select sites for collecting water samples for more comprehensive analyses by the U. S Geological Survey.

During the investigation observation wells were established to measure the fluctuations of water level. Table 9 contains water-level measurements obtained from these wells. The data from these observation wells show seasonal and longer term variations of the ground-water level.

## General Geology and Sources of Ground Water

Consolidated rocks of Mississippian age and of Early and Middle Pennsylvanian age crop out in Parke County. Overlying these rocks are unconsolidated glacial deposits of Pleistocene age.

Rocks of Mississippian age that crop out in the eastern one-fourth of the county are used for domestic and stock supplies. The limestones and siltstones of Mississippian age are sources of ground water. Wells tapping aquifers of Mississippian age range in depth from about 50 to 400 feet. Yields from these wells range from less than 1 to about 30 gpm (gallons per minute) with some dry holes reported.

Rocks of Early and Middle Pennsylvanian age crop out throughout the county. These rocks consist chiefly of sandstone, sandy shale, shale, and minor amounts of coal and limestone. Sandstones are the principal source of ground water for domestic and stock supplies. Well depths range from about 40 to 350 feet, the most frequent depth being about 115 feet. Yields from these wells range from less than 1 to about 50 gpm with some dry holes reported.

Unconsolidated glacial deposits of Pleistocene age consisting of till and glaciofluvial sand and gravel overlie the consolidated rocks.

Considerable thicknesses of glaciofluvial sand and gravel were deposited in preglacial valleys whose courses are more or less followed by the present Wabash River and Big Raccoon and Little Raccoon Creeks. Erosion by these streams removed much of the sand and gravel, but enough remains beneath a thin mantle of Recent alluvium, that these deposits are an important source of ground water for domestic, stock, irrigation, industrial, and municipal supplies. Well depths range from about 20 to 150 feet. Yields range from about 5 to 1,000 gpm.

Several large preglacial valleys in the county contain as much as 40 feet of sand and gravel overlain by as much as 140 feet of till. Well depths range from about 50 to 180 feet. Yields from these deposits are more than adequate for domestic and stock uses and larger supplies may be possible from properly constructed wells.

Small amounts of glaciofluvial sand and gravel are present beneath Recent alluvium or are associated with clayey and sandy-clay till in the county. The sand and gravel was deposited as lenses or thin stringers either lying on the bedrock surface and overlain by alluvium or till or interbedded with till. There is a close relationship between the preglacial bedrock channels and these sand and gravel deposits. In many areas these deposits are, or with proper development, could be additional sources of ground water for domestic and stock supplies. In the preglacial upland areas the glacial deposits consist chiefly of a clayey to sandy-clay till and do not yield water freely.

Wells tapping the sand and gravel aquifers associated with till or overlain by Recent alluvium range in depth from about 30 to 130 feet and have yields ranging from about 5 to 50 gpm. At the present time some of the wells drilled in these areas pass through the sand and gravel deposits and are completed in the bedrock.

Deposits of Recent age in Parke County consist mostly of flood plain sediments and wind-blown sand. They are thin and are not important as sources of ground water.

Plate 2 shows availability of ground water in the consolidated and unconsolidated rocks underlying the county. Plate 3 shows generalized hardness of water conditions in the consolidated and unconsolidated rocks and also shows areas where the chloride or sulfate contents exceed the limits for these constituents as established by the U. S. Public Health Service (1946).

The chemical content and the hardness of water vary greatly in the aquifers of Mississippian, Pennsylvanian, and Pleistocene age. The maximum and minimum values and the mode 1/ for sulfate and chloride contents and hardness of water for the Pleistocene and Pennsylvanian aquifers is given in table 1. Owing to insufficient data on the water from Mississippian aquifers the maximum and minimum values for sulfate content and the modes for sulfate and chloride contents and hardness of water are not given. In addition table 2 indicates the significance of the various constituents and properties of the water that are listed in tables 6, 7, and 8.

Table 1.--Comparison of quality of ground water by source in Parke County

| | Sulfate ppm | Chloride ppm | Hardness ppm |
|---|---|---|---|
| **Pleistocene aquifers** | | | |
| Maximum | 405 | 86 | 668 |
| Minimum | 5 | 2 | 56 |
| Mode | 16 | 10 | 321 |
| **Pennsylvanian aquifers** | | | |
| Maximum | 290 | 1,160 | 628 |
| Minimum | 8 | 2 | 8 |
| Mode | 13 | 10 | 279 |
| **Mississippian aquifers** | | | |
| Maximum | --- | 2,210 | 584 |
| Minimum | --- | 4 | 24 |
| Mode | --- | --- | --- |

1/ mode: The item, in a series of statistical data, which occurs oftenest. (Webster)

Table 2.--Significance of selected dissolved mineral constituents and properties of ground water [a/]

| Constituent or property | Significance |
|---|---|
| Iron (Fe)---------- | Oxidizes to reddish-brown sediment upon exposure to air. More than about 0.3 ppm stains laundry and utensils reddish-brown. More than 0.5 to 1.0 ppm imparts objectionalbe taste to water. Larger quantities favor growth of iron bacteria. Objectionable for food processing, textile processing, beverages, ice manufacturing, brewing, and other purposes. |
| Bicarbonate ($HCO_3$)--------- | Bicarbonate in conjunction with carbonate ($CO_3$) produces alkalinity. Bicarbonate of calcium and magnesium decompose in steam boilers and hot water facilities to form scale and release corrosive carbon-dioxide gas. |
| Sulfate ($SO_4$)---------- | Sulfate in water containing calcium forms hard scale in steam boilers. In large amounts sulfate in combination with other ions gives bitter taste to water. Some calcium sulfate is considered beneficial in the brewing process. |
| Chloride (Cl)---------- | Gives salty taste to drinking water when in large amounts in combination with sodium. Increases the corrosiveness of water when in large amounts. |
| Hardness as $CaCO_3$ (Calcium and magnesium)------- | Hard water increases amount of soap needed to make lather. Forms scale in boilers, water heaters, and pipes. Leaves curdy film on bathtubs and other fixtures and on materials washed in the water. |

a/ After Rosenshein and Hunn (1961), p. 17

## CONFINED AND UNCONFINED CONDITIONS

In Parke County ground water occurs in the consolidated and unconsolidated rocks chiefly under confined (artesian) conditions, but in some places it occurs under unconfined (water-table) conditions. Under confined conditions, the aquifer (water-bearing material) is overlain directly by relatively impervious material, and the water, which is under pressure will rise in the well above the bottom of the impervious material. Under unconfined conditions, the aquifer is overlain directly by permeable unsaturated material and the water does not rise above the level at which it is encountered.

## TYPES OF WELLS

Drilled wells are the principal type of water wells used in Parke County. A small number of dug and driven wells are still in use and occasionally one is constructed. Most water wells are 6-inches or more in diameter and are constructed by the cable-tool method. A well drilled by the cable-tool method is constructed by a combination of drilling, bailing and driving casing. Where the

water-bearing material is consolidated rock, the well casing generally is driven a few inches to several feet into rock, and the well is finished as an open hole in rock. Where the water-bearing material is sand and gravel, the well casing is driven into the water-bearing zone and is left as an open-end casing, or the lower end of the casing is slotted or perforated, or a well screen is set opposite the water-bearing zone below the end of the casing. A modification of the above type, the gravel-packed well, has a gravel lining between the well screen and the water-bearing material.

In Parke County the majority of industrial and municipal supply wells drilled in sand and gravel are equipped with well screens--a few are finished with slotted or perforated casing. Most domestic and stock wells that have been completed in sand and gravel do not have a screen but are finished with an open-end casing or the casing is slotted or perforated. The use of wire-wound, gauze-wrapped, or gauze washer well points or screens in domestic and stock wells is becoming more wide-spread. Successful wells can be obtained by the use of screens, in many water-bearing sand and gravel deposits from which it was once considered impossible to obtain water. Table 3 relates the grain-size in inches and millimeters to the slot and gauze size of screens commonly used in water wells.

Table 3.--Grain size and equivalent screen openings

Grain size: After Wentworth (1922).
Equivalent screen openings: From commercial catalogs for water-well supplies.
Slot size: In thousandths (0.001) of an inch.
Gauze size: Number of wire strands per lineal inch.

| Material | Grain size | | Equivalent screen opening | |
|---|---|---|---|---|
| | Inches | Millimeters | Slot size | Gauze size |
| Gravel | >0.08 | >2 | > 80 | ------- |
| Very coarse sand | .04 - .08 | 1 - 2 | 40 - 80 | 20 |
| Coarse sand | .02 - .04 | .50 - 1 | 20 - 40 | 40 - 20 |
| Medium sand | .01 - .02 | .25 - .50 | 10 - 20 | 60 - 40 |
| Fine sand | .005 - .01 | .125 - .24 | 6 - 10 | 90 - 60 |
| Very fine sand | .002 - .005 | .062 - .125 | ------- | ------- |
| Silt | .00015 - .002 | .004 - .062 | ------- | ------- |
| Clay | <.00015 | < .004 | ------- | ------- |

In areas where the water level in the unconsolidated material is close to the surface some water wells are constructed by driving or digging. The driven well consists of a small diameter pipe with a drive-point screen on the end which is driven into shallow water-bearing material. The dug well is constructed by digging a hole, usually about 3 feet in diameter into the upper part of the water-bearing material and using concrete pipe, tile, brick, or stone as a casing.

The oil or gas exploration holes, test holes, and holes drilled for purposes other than water supply are drilled by either the cable-tool or rotary method in Parke County.

## SUMMARY

Preliminary evaluation of the basic data shows that adequate quantities of ground water are generally available for domestic and stock use from the rocks of Mississippian and Pennsylvanian age. In the sand and gravel of Pleistocene age, in the Wabash River valley and in Big Raccoon, and Little Raccoon Creek valleys, ground water is available in adequate quantities for domestic and stock use and locally for industrial, irrigation, and public supplies. Sand and gravel in the large buried preglacial bedrock channels in the county is a possible source of ground water for industrial, irrigation, and public supplies. A source of domestic and stock supplies is the sand and gravel deposits interbedded and overlain by till or alluvium in the preglacial bedrock channels.

The quality of the water from the rocks of Mississippian, Pennsylvanian, and Pleistocene age varies greatly. Locally water from these sources exceeds the U. S. Public Health Service (1946) drinking-water standards for either iron, chloride, or sulfate content.

## RECORDS

The records of about 527 water wells and holes drilled for purposes other than water supply are given in table 4. The table gives information about well construction, water levels, yields, and drawdowns, thickness and character of the water-bearing material, conditions of occurrence, use, and other pertinent data. The altitude of the land surface at all wells, except oil or gas exploration holes, was determined from topographic maps. Altitudes of oil or gas exploration holes were on the records when received and were checked against the topographic maps.

Table 5 contains the selected logs of about 228 wells and other drilled holes. This table gives the drillers' description of the material encountered pertinent remarks with regard to the material, and tentative interpretation by the authors of the geologic age of the material. The logs contain local terms used by drillers in describing the material penetrated. A glossary of drillers' terms is on page 11.

The results of 252 analyses of well waters are given in table 6. These chemical analyses were determined in the field by the U. S. Geological Survey. The table gives information about geologic source, temperature, concentration in parts per million of iron, alkalinity (expressed as bicarbonate), sulfate, and chloride content, and hardness of water. The U. S. Public Health Service (1946) drinking-water standards state that the chemical constituents should not exceed the following concentrations: iron and manganese (together), 0.3 ppm; sulfate, 250 ppm, chloride, 250 ppm. Although no official standards have been established for hardness of water, the following classification (Lamar, 1942, p. 25, 26) is in general use: 0-60 ppm, soft; 61-120 ppm, moderately hard; 121-200 ppm, hard; more than 200 ppm, very hard.

Records of 9 springs are given in table 7. This table gives geologic source, yield, use, temperature of water, and the results of field chemical analyses.

Table 8 gives the results of 31 field chemical analyses of water from streams in Parke County with other data.

Water levels in 5 observation wells in Parke County are given in table 9. The water levels in one well were measured with an engineers steel tape and in the other four wells by recording gages. Daily high water levels are given for observation wells equipped with recording gages and periodic water levels are given for the observation well that was measured manually. The locations of these observation wells are shown on plate 1.

## GLOSSARY OF DRILLERS' TERMS

Bluestone.--Blue-gray siltstone, sandy shale, or shaly sandstone.

Clay rock.--Clay hardened by pressure and/or cementation of some mineral usually a carbonate or silicate.

Drift.--Any rock material, such as boulders, till, gravel, sand, or clay, transported by a glacier and deposited by or from ice or by or in water derived from the melting of the ice.

Hardpan.--A hard impervious layer, composed chiefly of clay, cemented by relative insoluble materials, does not become plastic when mixed with water.

Jack.--Black carbonaceous shale or a clayey or shaly coal.

Pan.--Clay of glacial origin; generally contains small pebbles and occasional boulders.

Slate.--Hard shale which splits into thin platy fragments, usually black.

Soapstone.--Hard smooth clay or shale, slippery to the touch.

Softpan.--A hard impervious layer, composed chiefly of clay, partly cemented by relative insoluble materials, becomes plastic when mixed with water.

Wash.--Water laid glacial material consisting of sand, silt, and clay with a high percentage of twigs, leaves, and other organic matter.

White top.--White shale or fire clay.

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Table 4.--Record of wells, Parke County, Indiana

Well number: See text for description of well-numbering system.
Altitude: Altitude of land-surface datum from topographic map.
Type of well: Dn, driven; Dr, drilled; Du, dug; J, jetted.
Finish: Gp, gravel pack; Oe, open end; Oh, open hole; P, perforated casing; S, screen.
Material: C, coal; Cl, clay; F, fire clay; G, gravel; Ls, limestone; Ls-sh, limy shale; S, sand; Sd-sh, sandy shale; Sh, shale; Sh-ss, shaly sandstone; Sls, siltstone (bluestone); Ss, sandstone.
Geologic age: Pl, Pleistocene; P, Pennsylvanian; M, Mississippian; D, Devonian.

Ground-water occurrence: C, confined (artesian); U, unconfined (water table).
Water level: In feet below land-surface datum on date of completion of well, except as noted in remarks. F, flowing well.
Use: D, domestic; Dn, destroyed; I, industrial; Ir, irrigation; N, not used; O, observation; Og, oil or gas; P, public supply; S, stock; T, test.
Remarks: A, field chemical analysis in Table 6; E, electric log on file; G, gamma ray log on file; L, log in Table 5; La, log on file; Lam, log from memory on file; Lm, log from memory in Table 5; W, water level measurements in Table 9; Dd, drawdown; gpm, gallons per minute.

| Well No. | Owner | Driller | Date completed | Altitude (feet) | Type of well | Depth of well below land-surface (feet) | Diameter (inches) | Depth of casing (feet) | Finish | Water-bearing zone: Depth to top (feet) | Water-bearing zone: Thickness (feet) | Water-bearing zone: Material | Water-bearing zone: Geologic age | Water-bearing zone: Ground-water occurrence | Water level (feet) | Yield (gpm) | Use | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14/8W--1A1 | H. Summers | M. O. Schrader | 4- 4-55 | 805 | Dr | 51 | 6 | 32 | Oh | 32 | 18 | Ss | P | -- | --- | 7 | D,S | L |
| 1R1 | J. Brattain | Rusk and Toney | -------- | 800 | Dr | 123 | 4 | ----- | Oh | ----- | ----- | Sh,Ss | P | C | 25 | 12 | D,S | La, A |
| 2N1 | J. Mayfield | ----do---------- | 1947 | 750 | Dr | 122 | 6 | 47 | Oh | 49 | 78 | Sd | P | -- | --- | ----- | D,S | La, A |
| 3Q1 | W. C. Miller | M. O. Schrader | 7-20-60 | 730 | Dr | 75 | 8 | 61 | Oh | 61 | 10 | Ss | P | C | 32 | 20 | D | L, A; Dd 43 ft after 6 hr bailing at 20 gpm |
| 5F1 | C. C. Coleman | ----do---------- | 4-13-54 | 690 | Dr | 149 | 8 | 101 | Oh | 125 | 23 | Ss | P | -- | --- | 6 | D,S | L, A |
| 5M1 | G. Dolp | ----do---------- | 6-28-58 | 625 | Dr | 52 | 6 | 52 | Oe | 51 | 1 | S,G | Pl | C | 12 | 5 | D | La |
| 5Q1 | W. H. Babcock | ----do---------- | 4-12-60 | 580 | Dr | 42 | 8 | 40 | Oe | 10 | 32 | S,G | Pl | C | 8 | 6 | D | L; Dd 8 ft after 3 hr bailing at 6 gpm |
| 7G1 | H. Hill | ----do---------- | 8- 1-57 | 590 | Dr | 51 | 6 | 51 | Oe | 42 | 9 | S,G | Pl | -- | --- | 8 | D | L, A |
| 7J1 | H. and H. Gravel Co. | ----do---------- | 7-16-57 | 580 | Dr | 68 | 8 | ----- | ----- | ----- | ----- | S,G | Pl | -- | --- | ----- | I | La, A |
| 7Q1 | ----do---------- | ----do---------- | 3-16-57 | 570 | Dr | 55 | 8 | ----- | ----- | ----- | ----- | S,G | Pl | -- | --- | ----- | T | L |
| 8D1 | C. F. Chiles | Ringo and Son | 7-48 | 610 | Dr | 85 | 6 | 40 | Oh | 39 | 21 | Ss | P | -- | --- | 8 | D,S | La, A |
| 8H1 | W. M. Harmless | M. O. Schrader | 1-25-57 | 595 | Dr | 58 | 6 | 57 | Oe | 53 | 5 | S,G | Pl | -- | --- | 17 | D | L |
| 10C1 | W. Miller, Jr. | ----do---------- | 8-14-60 | 730 | Dr | 251 | 8 | 80 | Oh | 130 | 112 | Ls | M | C | 86 | 2 | D | L |
| 11M1 | A. B. Kitchen | ----do---------- | 12-17-60 | 755 | Dr | 178 | 8 | 120 | Oh | 144 | 34 | Ss | P | C | 100 | 10 | D | L |
| 12H1 | H. Phipps | D. Chavis | 11-15-56 | 780 | Dr | 83 | 6 | 51 | Oh | 50 | 33 | Ss | P | -- | --- | 30 | D,S | L, A |
| 14B1 | T. Thompson | ----do---------- | 1958 | 760 | Dr | 125 | 6 | 80 | Oh | 60 | 65 | Ss | P | -- | --- | 6 | D,S | A |
| 15C1 | C. Mostoller | ----do---------- | -------- | 665 | Dr | 100 | 8 | 60 | Oh | 60 | 40 | Ls | M | -- | --- | 1.5 | D,S | |
| 16D1 | G. Williams | M. O. Schrader | 9-21-57 | 615 | Dr | 52 | 6 | 29 | P | 25 | 7 | S,G | Pl | -- | --- | 17 | D,S | L, A |
| 16D1 | M. C. McHargue | M. Crabb | 1951 | 710 | Dr | 126 | 4 | 69 | Oh | ----- | ----- | Sh | P | C | 40 | ----- | D | Lam |
| 17D1 | J. McHargue | M. O. Schrader | 3-15-52 | 650 | Dr | 104 | 6 | 76 | Oh | ----- | ----- | Ss | P | -- | --- | 3 | D | L, A |
| 18P1 | B. Robenson | C. Ringo | 1922 | 645 | Dr | 87 | ----- | 87 | Oe | 30 | 57 | S,G | Pl | -- | --- | ----- | N | L |
| 19R1 | W. Thompson | D. Chavis | 1958 | 685 | Dr | 118 | ----- | ----- | ----- | ----- | ----- | Ss | P | -- | --- | ----- | D,S | A |
| 20B1 | R. Rightnell | M. O. Schrader | 4- 2-53 | 680 | Dr | 85 | 6 | 29 | Oh | 29 | 36 | Ss | P | -- | --- | 2 | D | L, A |
| 21D1 | E. E. Thomas | Ringo and Son | 1-48 | 720 | Dr | 158 | 6 | 71 | P | 65 | 3 | S,G | Pl | C | 33 | 8 | N | L; Well backfilled to 78 ft |
| 22P1 | H. Goodin, Jr. | ----do---------- | 4-54 | 740 | Dr | 144 | 6 | 81 | Oh | 90 | 14 | Sd-sh | P | C | 60 | 4.5 | D,S | L, A |
| 27D1 | H. Goodin, Sr. | Ringo | 3-21-50 | 740 | Dr | 236 | 6 | 83 | Oh | 153 | 6 | Ss | P | C | 93 | 9 | D | L, A; Dd 57 ft bailing at 9 gpm |
| | | | | | | | | | | 213 | 23 | Ss | P | | | | | |
| 27G1 | R. H. Pell | L. Adkins | 12-10-45 | 730 | Dr | 82 | 8 | 37 | P | 78 | 4 | S | Pl | -- | --- | 60 | D,S | La, A. |
| | | | | | | | 8 | 82 | | | | | | | | | | |
| 30H1 | B. Robenson | C. Ringo | 1938 | 685 | Dr | 102 | 6 | 18 | Oh | ----- | ----- | ----- | P | -- | --- | ----- | N | L |
| 32N1 | H. Spencer | M. O. Schrader | 10-20-52 | 680 | Dr | 161 | 6 | 88 | Oh | ----- | ----- | Ss? | P | -- | --- | 3 | D | L, A |
| 33A1 | C. F. Thompson | ----do---------- | 8-22-59 | 720 | Dr | 206 | 6 | 101 | Oh | ----- | ----- | ----- | P | C | 25 | 1 | D,S | L, A |
| 34E1 | C. A. Pell | L. Adkins | 12-31-45 | 730 | Dr | 85 | 8 | 36 | P | 83 | 2 | G | Pl | -- | --- | ----- | D,S | La, A |
| | | | | | | | 6 | 66 | | | | | | | | | | |
| 34N1 | R. Morlan | M. O. Schrader | 12- 8-54 | 720 | Dr | 128 | 6 | 23 | Oh | 93 | 35 | Ss | P | -- | --- | 3 | D | L, A |
| 35Q1 | Lena Methodist Church | D. Chavis | -------- | 770 | Dr | 65 | ----- | 65 | Oe | ----- | ----- | G | Pl | -- | --- | ----- | ---- | |
| 35R1 | R. Morlan | ----do---------- | -------- | 765 | Dr | 220 | ----- | 115 | Oh | 180 | ----- | Ls | M | -- | --- | ----- | D | |
| 35R2 | G. Thomas | M. O. Schrader | 3-10-51 | 765 | Dr | 145 | 6 | 64 | Oh | 134 | 11 | Ss | P | -- | --- | .6 | D | L, A |
| 36A1 | T. E. Krout, Sr. | D. Chavis | -------- | 820 | Dr | 178 | 8 | 75 | Oh | 170 | ----- | Ls | M | -- | --- | ----- | D | |
| 36C1 | J. Mace | M. O. Schrader | 8-13-59 | 800 | Dr | 85 | 6 | 22 | Oh | 25 | 28 | Ss | P | C | 8 | 3.5 | D,S | L, A |
| 36K1 | D. C. Young | L. Adkins | 9-17-46 | 765 | Dr | 55 | 6 | 25 | Oh | 23 | 29 | Ss | P | -- | --- | ----- | D | La, A |

Table 4.--Record of wells, Parke County, Indiana--Continued

| Well No. | Owner | Driller | Date completed | Altitude (feet) | Type of well | Depth of well below land-surface (feet) | Diameter (inches) | Depth of casing (feet) | Finish | Water-bearing zone: Depth to top (feet) | Water-bearing zone: Thickness (feet) | Water-bearing zone: Material | Water-bearing zone: Geologic age | Water-bearing zone: Ground-water occurrence | Water level (feet) | Yield (gpm) | Use | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16/6W-36L1 | J. Kenley | L. Adkins | 9-14-46 | 780 | Dr | 60 | 6 | 38 | Gh | 32 | 24 | Ss | P | -- | --- | ----- | D | La, A; well backfilled with gravel |
| J6Q1 | J. P. Donaldson | M. O. Schrader | 1- 8-52 | 770 | Dr | 140 | 6 | 78 | Gh | ----- | ----- | ----- | P | -- | --- | 1 | D | L, A |
| J6Q2 | L. Girton | L. Adkins | 9-21-48 | 770 | Dr | 120 | 6 | 70 | Gh | ----- | ----- | ----- | Pl | -- | --- | ----- | N | La; Well backfilled with gravel to 70 ft |
| 14/7W- 5Q1 | R. Davidson | D. Chavis | 1956 | 570 | Dr | 130 | 6 | 120 | Gh | ----- | ----- | Ss | P | -- | --- | ----- | D,S | A |
| 5R1 | ----do---------- | M. O. Schrader | 5-14-60 | 585 | Dr | 125 | 6 | 31 | Gh | 100 | 25 | Ss | P | C | 33 | 12 | D,S | L, A; Dd 92 ft after 3 hr bailing at 12 gpm |
| 6D1 | F. Stalker | W. L. Laughlin | 6-53 | 550 | Dr | 21 | 8 | 21 | S | 12 | 9 | S,G | Pl | U | 12 | ----- | D | La, A; Screen, 8 ft of 6-in dia, no. 18 slot |
| 6D2 | H. Brunot | ----do---------- | 9- 5-55 | 550 | Dr | 50 | 8 | 50 | Co | 47 | 3 | G | Pl | C | 21 | 10 | D | L, A; Dd 1ft after 2 hr bailing at 10 gpm |
| 6P1 | L. Brubock | ----do---------- | 7-46 | 535 | Dr | 50 | 4 | 50 | S | 12 | 38 | G | Pl | U | 12 | ----- | S | La; Screen, 3 ft of 2-in dia, no. 80 gauze |
| 8M1 | Parke County Coal Co. | ---------- | -------- | 550 | Dr | 266 | ----- | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | T | La; Ashley (1899) |
| 11Q1 | R. H. Poll | M. O. Schrader | 2-28-60 | 570 | Dr | 38 | 6 | 38 | S | 11 | 29 | S,G | Pl | U | 11 | 50 | D,S | L, A; Dd 7 ft after 5 hr pumping at 50 gpm; Screen, 5 ft of 6-in dia, no. 50 slot |
| 13P1 | D. S. Chapman | R. L. Scobee and Sons | 9-10-60 | 670 | Dr | 250 | 7 | 181 | Gh | 175 | 75 | Ss | P | C | 102 | 8 | D,S | La, A; Dd 33 ft after 3 hr bailing at 8 gpm |
| 14Q1 | G. Kerr | ---------- | 2-25-48 | 580 | D | 1,315 | ----- | ----- | ----- | 185 | 15 | Ss | P | -- | --- | ----- | Og | G. H. Prodorman 1; L (partial) |
| 17S1 | Parke County Coal Co. | ---------- | -------- | 600 | Dr | 611 | ----- | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | T | La; Ashley (1899) |
| 18P1 | H. Albright | M. O. Schrader | 12-24-59 | 630 | Dr | 73 | 6 | 73 | S | 55 | 18 | S,G | Pl | C | 29 | 30 | D,S | L, A; Dd 11 ft after 20 hr bailing at 30 gpm; Screen, 4 ft of 6-in dia, no. 50 slot |
| 20D1 | C. O. Callis | ----do---------- | 9- 4-59 | 630 | Dr | 165 | 6 | 84 | Gh | ----- | ----- | ----- | P | C | 90 | 8 | S | L, A; Dd 75 ft after 4 hr bailing at 8 gpm |
| 22D1 | C. Puffley | ----do---------- | 9-28-56 | 555 | Dr | 78 | 6 | 57 | Oh | 57 | 22 | Ss | P | -- | --- | 11 | P | La, A |
| 22D2 | P. Sellers | ----do---------- | 7- 7-56 | 555 | Dr | 56 | 6 | 27 | Oh | 27 | 29 | Ss | P | -- | --- | 4.5 | D | La |
| 22D3 | E. Payton | ----do---------- | 6-21-57 | 550 | Dr | 64 | 6 | 58 | Oh | 58 | 6 | Ss | P | -- | --- | 10 | D | L, A |
| 22E1 | J. Hartman | R. L. Scobee and Sons | 1945 | 570 | Dr | 73 | 6 | 25 | Oh | 18 | 55 | Ss | P | -- | --- | ----- | D | A |
| 22E2 | Bridgeton School | M. O. Schrader | 8- 3-56 | 560 | Dr | 96 | 6 | 58 | Oh | 54 | 42 | Ss | P | -- | --- | 35 | P | L, A |
| 22E3 | A. McHargue | R. L. Scobee and Sons | 1945 | 565 | Dr | 66 | 6 | 23 | Oh | 16 | 40 | Ss | P | -- | --- | ----- | N | |
| 22E4 | C. P. Burke | ----do---------- | 1945 | 555 | Dr | 82 | 6 | 24 | Oh | 17 | 65 | Ss | P | -- | 16 | ----- | D | |
| 22E5 | N. Harney | M. O. Schrader | 8-26-59 | 560 | Dr | 70 | 6 | 22 | Oh | 23 | 47 | Ss | P | C | 22 | 6 | D | La, A; Dd 48 ft after 4 hr bailing 8 gpm |
| 22K1 | I. Stant | ----do---------- | 5-24-54 | 610 | Dr | 90 | 6 | 88 | Co | 80 | 10 | S,G | Pl | -- | --- | ----- | D | L, A |
| 22M1 | I. M. Brown | ----do---------- | 8-11-54 | 585 | Dr | 84 | 6 | 37 | Oh | 37 | 47 | Ss | P | -- | --- | 3.5 | D | L |
| 24P1 | Shell Oil Co. | E. C. Baker and Sons | 1939 | 665 | Dr | 237 | 8 | 173 | Oh | 173 | 61 | Ss | P | -- | --- | 9 | I | L, A |
| 24R1 | P. O. Grothe | M. O. Schrader | 2-10-53 | 660 | Dr | 110 | ----- | 110 | Co | 80 | 20 | S | Pl | -- | --- | ----- | Dd | L |
| 28L1 | M. Lee | Ringo and Son | 3-53 | 580 | Dr | 130 | 6 | 83 | Oh | 115 | 15 | Ss | P | C | 32 | 5 | D | L, A; Dd 88 ft pumping at 5 gpm |
| 31B1 | P. Barnes | L. Adkins | 1-41 | 540 | Dr | 40 | 6 | 40 | P | 22 | 18 | S,G | Pl | -- | --- | ----- | D,S | La, A |
| 32E1 | J. F. Mitchell, Jr. | ----do---------- | 11-24-47 | 555 | Dr | 94 | 6 | 88 | Oh | 77 | 11 | S | Pl | -- | --- | ----- | D,S | L, A; Water from sand, comes under end of casing |
| 35M1 | G. and F. Coal Co. | M. O. Schrader | 5- 6-57 | 620 | Dr | 58 | 6 | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | T | La |
| 35N1 | ----do---------- | ----do---------- | 5- 6-57 | 630 | Dr | 74 | 8 | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | T | La |
| 35N2 | ----do---------- | ----do---------- | 5- 6-57 | 630 | Dr | 68 | 8 | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | T | La |
| 35Q1 | J. Dellacca | ----do---------- | 2-20-54 | 650 | Dr | 155 | 6 | 98 | Oh | ----- | ----- | Ss | P | -- | --- | 2.5 | D | L, A |
| 36L1 | W. Ellison | ----do---------- | 4-14-58 | 620 | Dr | 105 | 6 | 49 | Oh | 50 | 55 | Ss | P | -- | --- | 3 | D,S | La, A |
| 36L2 | E. Byerly | M. O. Schrader | 9- 6-55 | 625 | Dr | 120 | 6 | 24 | Oh | 40 | 80 | Ss | P | -- | --- | 4 | D,S | L, A |
| 14/8W- 1J1 | Ohio Oil Co. | ---------- | -------- | 532 | Dr | 38 | 8 | ----- | Co | ----- | ----- | S,G | Pl | C? | --- | ----- | O | Observation well Parke 2; W; Water level 6.73 ft 2-5-57 |
| 5G1 | R. Tolin | W. L. Laughlin | 1949 | 510 | Dr | 65 | 6 | 35 | Gh | ----- | ----- | ----- | P | -- | 37 | 10 | D,S | L, A; Dd 10 ft bailing at 10 gpm |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14/8W- 5G1 | Mr. Fox | L. Schell | 4- 4-58 | 560 | Dr | 90 | 8 | 66 | Oh | 84 | 14 | Ls | P | C | 19 | 8 | P | L; Water at limestone and shale contact at 78 ft |
| 9P1 | G. Virostko | Ringo and Son | 11- 1-47 | 615 | Dr | 148 | 6 | ----- | Oh | 125<br>137 | 2<br>1 | C<br>C | P<br>P | -- | --- | ----- | D,S | L, A |
| 14J1 | V. Brown | W. L. Laughlin | 4-53 | 530 | Dr | 44 | 6 | 44 | Oo | 40 | 4 | S,G | Pl | C | 25 | ----- | D | L, A |
| 16R1 | D. Evans | ---------- | ------- | 515 | Du | 8 | ----- | 8 | ----- | ----- | ----- | ----- | Pl | -- | 6 | ----- | D,S | A |
| 18P1 | R. Brown | C. Schell | 8- 5-59 | 620 | Dr | 205 | 8 | 191 | Oh | 161 | 31 | S,G | Pl | C | 127 | 13 | D,S | L, A; Reported Dd 0 ft after 2 hr pumping at 13 gpm |
| 18R1 | M. Heaton | L. Adkins | 3-25-42 | 610 | Dr | 150 | 8 | 150 | Oo | 145 | 5 | S,G | Pl | -- | --- | ----- | D,S | L, A |
| | | | 5-42 | | | | 4 | 180 | Oo | 170 | 20 | G | Pl | -- | --- | ----- | | Well deepened by L. Adkins |
| 21A1 | C. Kinsey | ----do---------- | 4- 7-48 | 540 | Dr | 82 | 8 | 17 | Oh | ----- | ----- | ----- | P | C | 15 | ----- | D | L, A |
| 22L1 | L. Chaney | ----do---------- | 12-18-48 | 620 | Dr | 255 | 8 | ----- | ----- | ----- | ----- | ----- | P | -- | --- | ----- | D,S | L |
| 23R1 | E. Beatty | W. L. Laughlin | 10-16-59 | 570 | Dr | 118 | 6 | 118 | Oo | 95 | 23 | G | Pl | C | 62 | 7 | D | L, A; Reported Dd 0 ft after 2 hr bailing at 7 gpm |
| 26A1 | D. Barnes | ----do---------- | 8- 1-55 | 550 | Dr | 80 | 6 | 79 | Oo | 79 | 1 | G | Pl | C | --- | 10 | D,S | L, A |
| 30P1 | E. Huxford | F. E. Larrabee | -------- | 605 | Dr | 270 | 6 | 170 | P | 245 | 25 | Ss | P | C | 97 | 5 | D | L, A; Dd 148 ft after 4 hr bailing at 5 gpm |
| | | | | | | | 5 | 270 | | | | | | | | | | |
| 30R1 | F. Blair | ----do---------- | 1944 | 595 | Dr | 188 | 4 | 165 | ----- | 127 | 38 | G | Pl | C | 84 | 20 | D,S | L, A; Water from gravel comes under end of casing |
| 30R2 | ----do---------- | ----do---------- | 1945 | 595 | Dr | 155 | 4 | 155 | Oo | 127 | 28 | G | Pl | C | 60 | 20 | ---- | La |
| 31D1 | E. Huxford | ---------- | 1-21-54 | 598 | Dr | 1,844 | ----- | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | Og | W. Abel and H. L. Wood 1; La |
| 31P1 | T. Wilson | H. R. Knox | 12-44 | 600 | Dr | 121 | 7 | 121 | Oo | 105 | 16 | S,G | Pl | C | 32 | ----- | D,S | L,A |
| 33J1 | W. Brant | L. Adkins | 8-17-41 | 555 | Dr | 45 | 8 | 38 | ----- | ----- | ----- | S | Pl | -- | --- | ----- | D,S | |
| 33L1 | I. Edington | ----do---------- | 6-11-41 | 600 | Dr | 150 | 6 | 83 | Oh | 140 | 10 | Ss | P | -- | --- | ----- | D,S | L, A |
| 33Q1 | C. Martz | ----do---------- | 3- 6-61 | 600 | Dr | 90 | 6 | 34 | ----- | 38 | 2 | S,G | Pl | C | 30 | 3.5 | D | L; Dd 60 ft bailing at 3.5 gpm |
| | | | | | | | 4 | 80 | P | 74 | 18 | S,G | Pl | C | | | | |
| 34A1 | Town of Rosedale | Heldt-Monroe | 1951 | 530 | Dr | 48 | 10 | 48 | ----- | ----- | ----- | G | Pl | U | 14 | 100 | P | Dd 2 ft after 8 hr pumping at 100 gpm |
| 34F1 | L. Lane | L. Lockard | 1955 | 540 | Dr | 59 | 8 | 59 | S | 8 | 51 | S,G | Pl | U | 8 | 300 | Ir | La; Screen, 15 ft of no. 20, 40, and 80 slot |
| 34H1 | A. Yeargin | ----do---------- | 1- 1-54 | 540 | Dr | 90 | 8 | 80 | S | 16 | 74 | S,G | Pl | U | 16 | 400 | Ir | L; Screen, 15 ft of no. 60 slot |
| 35C1 | S. S. Lane | L. Adkins | 1952 | 530 | Dr | 68 | 10 | 68 | S | 19 | 49 | S,G | Pl | U | 19 | 600 | Ir | Screen, 15 ft of no. 100 slot |
| 35C2 | ----do---------- | ----do---------- | 1952 | 530 | Dr | 113 | ----- | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | T | L |
| 35Q1 | G. W. Withers | J. C. Howse and Son | 1- 3-54 | 540 | Dr | 1,490 | ----- | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | Og | Hedgrave Petroleum Co. and F. Bruce; La |
| 36C1 | H. V. Lee | ---------- | 6-18-49 | 527 | Dr | 1,362 | ----- | ----- | ----- | 210 | 30 | Ss | P | -- | --- | ----- | Og | Midwest Petroleum Co. 1; L (partial) |
| 14/9W- 1R1 | S. Kamm | Smith Bros. | -------- | 525 | Dr | 72 | ----- | 72 | S | 70 | 2 | G | Pl | C | 30 | ----- | D,S | L; Screen, 1 ft of no. 80 slot |
| 13M1 | J. Zambonini | L. Adkins | 4-12-48 | 630 | Dr | 250 | 8 | 147 | Oh | ----- | ----- | ----- | ---- | -- | --- | ----- | N | La; Well dry, 8-24-59 |
| 13Q1 | R. Brown | W. L. Laughlin | 3-27-51 | 605 | Dr | 250 | 6 | 160 | Oh | 232 | 5 | Ls | P | C | 100 | 2.5 | D,S | L, A; Dd 40 ft pumping at 2.5 gpm |
| 14K1 | W. Davis | L. Lockard | 8- 8-60 | 530 | Dr | 105 | 4 | 105 | P | 95 | 10 | G | Pl | C | 58 | 10 | D | L, A; Reported Dd 0 ft after 2 hr pumping at 10 gpm |
| 14L1 | S. C. Stultz | ---------- | 8-49 | 470 | Dr | 1,450 | ----- | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | Og | J. Gambill and O. M. Randleman 1; La |
| 23A1 | C. Wilding | F. E. Larrabee | 3-11-61 | 525 | Dr | 87 | 2½ | 87 | S | 53 | 34 | S,G | Pl | U | 68 | 7 | D | L; Reported Dd 0 ft after 2 hr pumping at 7 gpm; Screen, 3 ft of 1½-in dia, no. 50 slot |
| 23H1 | F. Yowell | L. Adkins | 9-47 | 530 | Dr | 36 | 6 | 36 | Oo | 18 | 18 | S,G | Pl | -- | --- | ----- | N | La |
| 23H2 | F. Zoyonfus | ----do---------- | 1- 7-47 | 535 | Dr | 45 | 8 | 45 | P | 18 | 27 | G | Pl | -- | --- | ----- | D | La, A |
| 23H3 | M. Shoemaker | F. E. Larrabee | 4-15-60 | 535 | Dr | 93 | 2½ | 93 | S | 55 | 38 | S,G | Pl | U | 68 | 6 | D | La, A; Reported Dd 0 ft after 3 hr pumping at 8 gpm; Screen, 3 ft of 1½-in dia, no. 40 slot |
| 23H4 | G. Moss | L. Adkins | 1-24-47 | 535 | Dr | 101 | 7 | 101 | P | 51 | 50 | G | Pl | -- | --- | ----- | D | La |
| 23R1 | R. Golden | F. E. Larrabee | 4-18-60 | 530 | Dr | 87 | 2½ | 87 | S | 54 | 33 | S,G | Pl | U | 65 | 6 | D | L, A; Reported Dd 0 ft after 2½ hr pumping at 8 gpm; Screen, 3 ft of 1½-in dia, no. 80 slot |
| 24D1 | J. Chaney | Smith Brothers | 5-13-58 | 545 | Dr | 76 | 2½ | 42 | S | 38 | 4 | S,G | Pl | -- | 36 | ----- | D | L; Screen, 2 ft of no. 60 slot |
| 24L1 | E. Waters | W. McAlister | 1940 | 590 | Dr | 188 | 6 | ----- | ----- | 121 | 45 | G | Pl | -- | 85 | ----- | D | A |
| 24L2 | R. Harkness | R. McDaniel and Sons | 8-20-57 | 600 | Dr | 63 | 8 | 63 | ----- | ----- | ----- | ----- | Pl? | -- | --- | ----- | D | La |
| 24L3 | J. Kaps | ----do---------- | 7-30-57 | 610 | Dr | 100 | 6 | 100 | ----- | ----- | ----- | ----- | Pl? | -- | --- | ----- | D | La |
| 24L4 | D. Sheppard | L. Schell | 1958 | 610 | Dr | 273 | 8 | ----- | ----- | ----- | ----- | ----- | P | -- | --- | ----- | D | L |
| 24M1 | J. Rondaci | L. Adkins | 2-28-48 | 535 | Dr | 98 | 6 | 98 | S | 63 | 35 | G,S | Pl | -- | --- | ----- | D | La, A; Screen, 10 ft |

Table 4.--Record of wells, Parke County, Indiana--Continued

| Well No. | Owner | Driller | Date completed | Altitude (feet) | Type of well | Depth of well below land-surface (feet) | Diameter (inches) | Depth of casing (feet) | Finish | Water-bearing zone: Depth to top (feet) | Water-bearing zone: Thickness (feet) | Water-bearing zone: Material | Water-bearing zone: Geologic age | Water-bearing zone: Ground-water occurrence | Water level (feet) | Yield (gpm) | Use | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14/9W-25M1 | C. Miller | L. Adkins | 11- 1-48 | 525 | Dr | 90 | 4 | 80 | P | 46 | 44 | S,G | Pl | -- | --- | ----- | D | L, A |
| 26A1 | R. Land | Smith Brothers | 12-30-60 | 525 | Dr | 94 | 4 | 94 | S | 62 | 32 | S,G | Pl | -- | --- | ----- | D | L; Screen 3.5 ft of 3½-in dia, no. 40 slot |
| 26J1 | W. Van Duyn | F. E. Larrabee | 1945 | 525 | Dr | 97 | 2 | 97 | ----- | ----- | ----- | G | Pl | -- | 82 | ----- | D | A |
| 26R1 | I. M. Novins | Smith Brothers | 9-20-60 | 530 | Dr | 105 | 2½ | 105 | S | 71 | 34 | S,G | Pl | U | 76 | 15 | D | L; Reported Dd 0 ft after 3 hr pumping at 15 gpm; Screen, 3 ft of 2-in dia, no. 30 slot |
| 35H1 | T. Schultz | C. Cassidy | -------- | 530 | Dr | 85 | ----- | 85 | ----- | ----- | ----- | G | Pl | -- | 55 | ----- | D | A |
| 35L1 | J. Call | Smith Brothers | 12-15-60 | 510 | Dr | 83 | 4 | 83 | S | ----- | ----- | S,G | Pl | -- | --- | 20 | D | La, A; Reported Dd 0 ft after 3 hr pumping at 20 gpm; Screen, 2.5 ft of 4-in dia, no. 40 slot |
| 35R1 | R. Robinson | ----do---------- | 8-20-59 | 510 | Dr | 70 | 2 | 70 | S | 50 | 20 | S,G | Pl | U | 50 | 15 | D | La, A; Reported Dd 0 ft after 2 hr pumping at 15 gpm; Screen, 3.5 ft of 1¼-in dia, no. 12 slot |
| 15/8W- 7E1 | G. Seip | D. Chavis | -------- | 730 | Dr | 130 | 6 | 63 | Oh | 120 | 10 | Ss | P | -- | --- | 30 | D,S | A |
| 7H1 | C. Roeder | M. Crabb | 10-14-51 | 740 | Dr | 123 | 4 | 85 | Ob | 65 | 58 | Sh | P | C | 35 | ----- | P | Lm, A |
| 7J1 | R. Porter | D. Chavis | -------- | 740 | Dr | 125 | ----- | 112 | Oh | 112 | 13 | Ls | M | -- | --- | 1.5 | D | Lm |
| 7J2 | Mr. Hardesty | ----do---------- | 1955 | 740 | Dr | 80 | 6 | 80 | Oe | ----- | ----- | S | Pl | -- | --- | ----- | D | A |
| 7K1 | W. B. Blue | ----do---------- | -------- | 740 | Dr | 145 | 6 | 100 | Oh | ----- | ----- | Ss | P | -- | --- | 30 | S | Lm (partial), A |
| 8E1 | Town of Bellmore | ----do---------- | -------- | 740 | Dr | 278 | ----- | 118 | Ob | 116 | 162 | Ls | M | -- | --- | 1.5 | P | Lm, A |
| 8J1 | C. Hartman | M. Crabb | 12-16-52 | 720 | Dr | 47 | 4 | 44 | Ob | 44 | 3 | Sh | P | C | 15 | ----- | D | Lm |
| 8N1 | H. Spencer | Ruark Well Drilling | 9-14-60 | 740 | Dr | 132 | 6 | 65 | Oh | 90 | 42 | Ls | M | C | 30 | 6 | S | L; Dd 100 ft after 3 hr bailing at 6 gpm |
| 9G1 | Mr. Blake | V. Haydon | 1946 | 740 | Dr | 180 | 8 | 30 | Oh | ----- | ----- | ----- | ---- | -- | --- | ----- | P | L, A |
| 9J1 | Mr. Williams | C. Cassidy | -------- | 740 | Dr | 116 | 6 | 38 | Oh | 114 | 2 | Ss | M? | C | 87 | 5 | P | La, A |
| 10E1 | C. Bucklor | R. L. Scobee and Sons | 1943 | 750 | Dr | 166 | 6 | 76 | Oh | 70 | 96 | Ss | P? | -- | 70 | ----- | D,S | A |
| 10L1 | W. Hatfield | Ruark Well Drilling | 9-19-60 | 665 | Dr | 110 | 4 | 28 | Oh | ----- | ----- | Ls | M | -- | 55 | 3 | D | L, A; Dd 55 ft after 3 hr bailing at 3 gpm |
| 10P1 | D. Cooper | ----do---------- | 4-12-61 | 675 | Dr | 115 | 6 | 28 | Oh | ----- | ----- | Ls | M | -- | 50 | 3 | D | La; Dd 65 ft after 2½-hr bailing at 3 gpm |
| 11K1 | N. R. Stanley | ----do---------- | 1-27-61 | 750 | Dr | 100 | 6 | 25 | Oh | 60 | 40 | Ls | M | C | 21 | 5 | D | L; Dd 79 ft after 2 hr bailing at 5 gpm |
| 12M1 | O. Thomas | Ruark and Toney | 1948 | 800 | Dr | 98 | 6 | 74 | Oh | 70 | 28 | Sls,Ls | M? | -- | --- | 7 | D,S | La, A |
| 13Q1 | G. Berry | L. Smith | 1942 | 810 | Dr | 45 | ----- | 31 | Oh | ----- | ----- | Ss | ---- | -- | --- | ----- | D | A |
| 14N1 | W. Anderson | D. Chavis | -------- | 780 | Dr | 148 | 6 | 58 | Oh | ----- | ----- | ----- | ----- | -- | --- | ----- | D | La |
| 15A1 | N. Dillman | Holt Brothers | 5- 3-60 | 690 | Dr | 63 | 4 | 63 | S | 60 | 3 | G | Pl | C | 50 | 10 | D | La; Reported Dd 0 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no. 40 slot |
| 15B1 | Mr. Ebert | ----do---------- | 11-27-60 | 720 | Dr | 93 | 4 | 60 | Oh | 80 | 13 | Ls,Sh | M | C | 65 | 7 | D | L; Reported Dd 0 ft after 1 hr pumping at 7 gpm |
| 15B2 | Mr. Richardson | ----do---------- | 11-30-60 | 710 | Dr | 93 | 4 | 83 | Oh | 80 | 13 | Ls,Sh | M | C | 65 | 10 | D | La; Reported Dd 0 ft after 1 hr pumping at 10 gpm |
| 16F1 | R. Reed | Ruark Well Drilling | 8-15-60 | 700 | Dr | 100 | 4 | 91 | Oh | 88 | 12 | Ss | P | C | 55 | 6 | D | L; Dd 45 ft after 1 hr bailing at 6 gpm |
| 19C1 | F. Moore | D. Chavis | -------- | 720 | Dr | 163 | ----- | ----- | Oh | 85 | 78 | Ls | M | -- | --- | 30 | D,S | Lm |
| 22G1 | W. Anderson | Ruark Well Drilling | 3-31-61 | 705 | Dr | 335 | 6 | 50 | Oh | ----- | ----- | Ls | M | -- | 57 | 1.5 | P | L; Dd 278 ft after 10 hr pumping at 1.5 gpm |
| 22K1 | E. Conway | ----do---------- | 8-12-60 | 735 | Dr | 134 | 4 | 131 | Oh | 128 | 6 | Ls | M | C | 55 | 20 | D | La, Dd 20 ft after 1 hr pumping at 20 gpm |
| 24J1 | C. R. Adamson | Smith Brothers | 11- 7-58 | 800 | Dr | 40 | 6 | 40 | P | ----- | ----- | Ss | P | -- | --- | 6 | D | La |
| 27B1 | C. Noble | D. Chavis | -------- | 740 | Dr | 108 | 6 | 70 | Oh | 88 | 20 | Ss | P | -- | --- | ----- | D | Lm (partial) |
| 27C1 | U. S. Government | ---------- | 11-23-55 | 746 | Dr | 56 | ----- | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | T | La |
| 27C2 | ----do---------- | ---------- | 4- 6-55 | 733 | Dr | 66 | ----- | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | T | La |

| | | | | | | | | | | | | | | | | | | |
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| 15/6W-27C3 | U. S. Government | ---------- | 4-20-55 | 744 | Dr | 74 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | -- | --- | ----- | T | La |
| 27C4 | ----do---------- | ---------- | 5- 2-55 | 748 | Dr | 78 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | -- | --- | ----- | T | La |
| 27D1 | ----do---------- | ---------- | 2-24-55 | 716 | Dr | 92 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | -- | --- | ----- | T | L |
| 27E1 | ----do---------- | ---------- | 3- 8-57 | 704 | Dr | 104 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | -- | --- | ----- | T | L, Water level 27.5 ft 3-8-57 |
| 27E2 | ----do---------- | ---------- | 4-28-55 | 700 | Dr | 30 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | -- | --- | ----- | T | La |
| 27F1 | ----do---------- | ---------- | 4- 1-55 | 718 | Dr | 61 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | -- | --- | ----- | T | La |
| 27F2 | ----do---------- | ---------- | 1- 6-56 | 748 | Dr | 58 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | -- | --- | ----- | T | L |
| 27F3 | ----do---------- | ---------- | 12-20-55 | 751 | Dr | 61 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | -- | --- | ----- | T | L, Water level 38.0 ft 12-21-55 |
| 27K1 | ----do---------- | ---------- | -------- | 749 | Dr | 112 | 8 | 84 | Oh | ----- | ----- | Ls | M | C | 48 | ----- | O | E, G, Observation well Parke 4, W |
| 28A1 | ----do---------- | ---------- | 3- 1-55 | 805 | Dr | 88 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | -- | --- | ----- | T | La; Water level 8.0 ft 2-28-55 |
| 28D1 | ----do---------- | ---------- | 3-23-55 | 691 | Dr | 45 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | -- | --- | ----- | T | L |
| 28D2 | ----do---------- | ---------- | 3-18-55 | 692 | Dr | 50 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | -- | --- | ----- | T | La |
| 28F1 | ----do---------- | ---------- | 2- 5-57 | 730 | Dr | 40 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | -- | --- | ----- | T | La |
| 28G1 | ----do---------- | ---------- | 2- 6-57 | 713 | Dr | 60 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | -- | --- | ----- | T | La |
| 28G2 | ----do---------- | ---------- | 6- 1-54 | 708 | Dr | 94 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | -- | --- | ----- | T | L, Water level 79.7 ft 6-2-54 |
| 28G3 | ----do---------- | ---------- | 5-25-54 | 686 | Dr | 169 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | -- | --- | ----- | T | L; Water level 39.0 ft 5-24-54 |
| 28H1 | ----do---------- | ---------- | 10-20-55 | 609 | Dr | 44 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | -- | --- | ----- | T | L; Water level 9.0 ft 10-20-55 |
| 28H2 | ----do---------- | ---------- | 3-10-55 | 607 | Dr | 87 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | -- | --- | ----- | T | La; Water level 7.9 ft 3-11-55 |
| 28H3 | ----do---------- | ---------- | 3- 7-55 | 604 | Dr | 29 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | -- | --- | ----- | T | La; Water level 3.9 ft 3-7-55 |
| 28Q1 | N. M. Rowings | M. O. Schrader | 8-23-54 | 620 | Dr | 140 | 6 | 80 | Oh | ----- | ----- | Ls | M | -- | --- | 4 | D,S | L, A |
| 31M1 | C. Michael | D. Chavis | -------- | 700 | Dr | 150 | ----- | ----- | Oh | 120 | 10 | Ss | P | -- | --- | 20 | D,S | Lm (partial), A |
| 34D1 | Indiana State Highway Department | ---------- | 6-13-58 | 611 | Dr | 19 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | -- | --- | ----- | T | L |
| 34D2 | ----do---------- | ---------- | 6-13-58 | 616 | Dr | 18 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | -- | --- | ----- | T | La |
| 34R1 | W. L. Mathews | R. L. Scobee and Sons | 1940 | 750 | Dr | 284 | 6 | 160 | Oh | 150 | 134 | Sh,Ss | ----- | C | 80 | ----- | D,S | |
| 35E1 | J. Snodgrass | D. Chavis | -------- | 780 | Dr | 170 | 6 | 170 | P | 45 | 125 | S | Pl | -- | --- | ----- | S | A |
| 35H1 | T. Quinn | ----do---------- | 12-28-57 | 710 | Dr | 58 | 8 | 22 | Oh | ----- | ----- | ----- | P | C | 9 | 15 | D | L |
| 36J1 | L. W. Sommerville | Ruark and Toney | 1948 | 805 | Dr | 193 | 8 | 177 | Oh | 173 | 20 | Ss | P | C | 30 | 3 | D,S | La |
| 15/7W- 3M1 | R. E. Adams | W. L. Laughlin | 8-24-56 | 590 | Dr | 32 | 6 | 32 | P | 15 | 17 | G | Pl | U | 15 | 13 | D,S | L, A; Reported Dd 0 ft after 2½ hr pumping at 13 gpm |
| 4K1 | M. Lundgreen | M. Crabb | 8- 1-53 | 620 | Dr | 102 | 4 | 82 | Oh | 82 | 40 | Ss | P | C | 20 | ----- | D | Lm, A |
| 9D1 | P. Crowder | A. R. Scobee | 4-12-60 | 680 | Dr | 120 | 7 | 68 | Oh | 99 | 21 | Ss | P | C | 25 | 8 | D | L; Dd 70 ft after 4 hr bailing at 8 gpm |
| 9K1 | City of Rockville | Layne-Northern Co., Inc. | 9-28-33 | 575 | Dr | 46 | 72<br>38 | 25<br>48 | Gp | ----- | ----- | S,G | Pl | C | 15 | 500 | P | Screen, 15 ft of 38-in dia, no. 5 shutter |
| 9K2 | ----do---------- | Diehl Pump and Supply Co. | 8-54 | 570 | Dr | 59 | 26 | 39 | Gp | 23 | 36 | S,G | Pl | C | 8 | 400 | P | Dd 17 ft after 8 hr pumping at 407 gpm; Screen, 20 ft of shutter |
| 9K3 | ----do---------- | ----do---------- | 5-54 | 570 | Dr | 67 | ----- | ----- | ----- | 23 | 44 | S,G | Pl | C | 13 | ----- | T | L |
| 9J1 | ----do---------- | ----do---------- | 4- 5-54 | 575 | Dr | 70 | ----- | ----- | ----- | 14 | 56 | S,G | Pl | C | 14 | ----- | T | La |
| 9J2 | ----do---------- | ----do---------- | 4-54 | 570 | Dr | 67 | ----- | ----- | ----- | 13 | 54 | S,G | Pl | U | 13 | ----- | T | L |
| 10A1 | State of Indiana | Layne-Northern Co., Inc. | 9-16-48 | 575 | Dr | 44 | 12<br>10 | 28<br>44 | S | 10 | 34 | S,G | Pl | U | 10 | ----- | P | La, Screen, 15 ft of 10-in dia, no. 7 shutter |
| 10A2 | ----do---------- | Diehl Pump and Supply Co. | 8-50 | 575 | Dr | 53 | 12 | 53 | S | 23 | 30 | S,G | Pl | U | 23 | 260 | P | L, Screen 15 ft of 12-in dia |
| 13B1 | W. C. Rose | C. Cassidy | 1901 | 715 | Dr | 250 | 6 | ----- | Oh | 180 | 60 | Ls | M | -- | --- | ----- | Do | La |
| 13D2 | -----do---------- | M. O. Schrader | 3-21-58 | 715 | Dr | 141 | 6 | 79 | Oh | 137 | 4 | Ss | P | -- | --- | 2 | D,S | L, A |
| 13E1 | C. C. Thompson | D. Chavis | -------- | 710 | Dr | 188 | 6 | 83 | Oh | 180 | 8 | Ss | P | -- | --- | 30 | D, S | Lm, A |
| 14A1 | L. Spurr | ----do---------- | -------- | 720 | Dr | 204 | 6 | 83 | Oh | 185 | 19 | Ss | P | -- | --- | 30 | D,S | A |
| 18B1 | City of Rockville | Diehl Pump & Supply Co. | 5-54 | 585 | Dr | 80 | ----- | ----- | ----- | 20 | 40 | S,G | Pl | -- | 13 | ----- | T | L |
| 18L1 | L. W. Fisher | A. R. Scobee | 3-22-55 | 680 | Dr | 404 | 6 | 143 | Oh | 204 | 140 | Ls | M | -- | --- | ----- | D | L, A |
| 20Q1 | Indiana State Highway Department | ---------- | 6-14-56 | 550 | Dr | 40 | ----- | ----- | ----- | ----- | ----- | ----- | Pl | -- | --- | ----- | T | L |
| 20Q2 | ----do---------- | ---------- | 6-14-56 | 550 | Dr | 40 | ----- | ----- | ----- | ----- | ----- | ----- | Pl | -- | --- | ----- | T | La |
| 26N1 | Wimmer Coal Co. | M. O. Schrador | 8-10-51 | 690 | Dr | 70 | 6 | 70 | ----- | ----- | ----- | ----- | ----- | -- | --- | ----- | I | La; Mine pump hole |
| 27R1 | Batterman Mining Co. | Ringo and Son | 11-48 | 660 | Dr | 66 | 8 | 20 | ----- | ----- | ----- | ----- | ----- | -- | --- | ----- | I | L; Mine pump hole |
| 31P1 | E. G. Beavers | W. L. Laughlin | 6-48 | 555 | Dr | 101 | 4 | 71 | Oh | 70 | 31 | Sh | P | C | 18 | ----- | S | La, A |
| 32H1 | A. Ferguson | ----do---------- | 5-54 | 540 | Dr | 250 | 6 | 130 | Oh | 150 | 100 | Ls | M | C | 30 | 12 | S | L; Dd 25 ft after 8 hr pumping at 12 gpm |
| 35D1 | Wimmer Coal Co. | ----do---------- | 11-47 | 685 | Dr | 72 | 8 | ----- | ----- | ----- | ----- | ----- | ----- | -- | --- | ----- | I | La; Mine pump hole |
| 15/8W- 1M1 | U. S. Government | R. L. Clark | 10-50 | 730 | Dr | 172 | 6 | 152 | S | 142 | 30 | S,G | Pl | C | 62 | 100 | P | L; Dd 12 ft after 24 hr pumping at 100 gpm; Screen, 20 ft, no. 80 slot |
| 3Q1 | D. C. Stutler | ---------- | -------- | 605 | Du | 19 | 12 | 19 | ----- | ----- | ----- | ----- | Pl | C | 3 | ----- | O | Observation well Parke 1, W |
| 4P1 | C. Gaines | M. O. Schrader | 8-18-57 | 660 | Dr | 355 | 6 | 151 | ----- | ----- | ----- | ----- | P | -- | --- | 2 | D,S | L, A; not used dor drinking |

Table 4.--Record of wells Parke County, Indiana--Continued

| Well No. | Owner | Driller | Date completed | Altitude (feet) | Type of well | Depth of well below land-surface (feet) | Diameter (inches) | Depth of casing (feet) | Finish | Water-bearing zone: Depth to top (feet) | Water-bearing zone: Thickness (feet) | Water-bearing zone: Material | Water-bearing zone: Geologic age | Water-bearing zone: Ground-water occurrence | Water level (feet) | Yield (gpm) | Use | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15/8W- 5J1 | G. Henderson | W. L. Laughlin | 1940 | 540 | Dr | 63 | 4 | 63 | S | 60 | 3 | S,F | Pl | C | 18 | ----- | D | L, A; Screen, 3 ft of 2-in dia, no. 60 gauze |
| 5J2 | D. Collings | ----do---------- | 3- 7-50 | 540 | Dr | 235 | 6 | 26 | Oh | 195 | 17 | Ss | P | C | 37 | 3 | D,S | L |
| 5Q1 | M. Culton | ----do---------- | 1936 | 550 | Du | 32 | 2½ | 32 | ----- | ----- | ----- | G | Pl | -- | 10 | ----- | Do | |
| 6H1 | S. Smith | M. Crabb | 7-20-50 | 550 | Dr | 110 | 4 | 110 | Oo | ----- | ----- | S,G | Pl | U | --- | ----- | D,S | Lam, A |
| 7N1 | S. Hessler | W. L. Laughlin | 12-46 | 530 | Dr | 80 | 6 | 80 | Oo | ----- | ----- | S,G | Pl | U | 30 | ----- | D,S | La |
| 12D1 | W. Hargrave | ----do---------- | 9-53 | 690 | Dr | 193 | 6 | 150 | Oh | 150 | 43 | Ls | M | C | 50 | 9 | D | L, Dd 35 ft after 6 hr pumping at 9 gpm |
| 12F1 | R. Boyd | ----do---------- | -------- | 695 | Dr | 173 | 4 | 160 | Oh | 160 | 13 | Sh | P | C | 30 | ----- | S | La, A |
| 14E1 | L. Sparks | ---------- | 2-16-48 | 620 | Dr | 1,444 | ----- | ----- | ----- | 18 | 28 | S | Pl | -- | --- | ----- | Og | H. Craig and H. Phillips 1; L (partial) |
| | | | | | | | | | | 275 | 28 | Ss | P | | | | | |
| 18E1 | H. Robertson | M. Crabb | 2-57 | 540 | Dr | 216 | 4 | 18 | Oh | ----- | ----- | Sh | P | C | 36 | ----- | N | Lam |
| 19A1 | E. Myers | W. L. Laughlin | 5-20-58 | 540 | Dr | 125 | 6 | 51 | Oh | 100 | 25 | Ss | P | -- | --- | 5 | D | L, A; Dd 20 ft after 2 hr bailing at 5 gpm |
| 19R1 | P. Stover | L. Schell | 1957 | 640 | Dr | 92 | 6 | 83 | Oh | 45 | ----- | ----- | Pl | C | 30 | 1 | D | L, A; 8-in hole, annular space filled with gravel |
| | | | | | | | | | | 90 | 2 | C | P | | | | | |
| 23Q1 | J. M. McDowell | M. O. Schrader | 10-15-56 | 645 | Dr | 130 | 6 | 100 | Oh | 102 | 28 | Sh | P | -- | --- | 2 | D,S | L, A |
| 24D1 | R. Vaught | W. L. Laughlin | -------- | 650 | Dr | 87 | 6 | ----- | ----- | 85 | 2 | S,G | Pl | C | 76 | ----- | D | L |
| 24N1 | P. Trotzke | M. O. Schrader | 9-23-54 | 650 | Dr | 104 | 6 | 104 | Oo | 103 | 1 | G | Pl | C | 75 | 35 | D | L, A |
| 25F1 | L. W. Fishor | W. L. Laughlin | 9-25-56 | 640 | Dr | 104 | 6 | 104 | Oo | 103 | 1 | G | Pl | -- | --- | ----- | D,S | L, A |
| 27H1 | M. D. Swaim | ----do---------- | 4-49 | 640 | Dr | 110 | 8 | 89 | Oh | 90 | 20 | Ss | P | C | 50 | ----- | D,S | L, A |
| 32D1 | F. S. Wood | ----do---------- | 9-20-55 | 520 | Dr | 78 | 6 | 28 | S,Oh | ----- | ----- | S,G | Pl | -- | --- | 10 | D | L; Dd .5 ft after 3 hr pumping at 10 gpm |
| 32L1 | G. Laws | ----do---------- | 1947 | 505 | Dr | 44 | 6 | 10 | Oh | ----- | ----- | ----- | P | C | 15 | 3 | D | L, A |
| 32L2 | ---------- | Mr. McCullum | -------- | 510 | Dr | 119 | ----- | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | T | La; Ashley (1899) |
| 33L1 | W. H. Davis | W. L. Laughlin | 3-59 | 640 | Dr | 309 | 6 | 150 | Oh | 285 | 24 | Ss | P | C | 135 | 5 | D,S | L, A; Dd 30 ft after 3 hr bailing at 5 gpm |
| 15/9W- 1C1 | O. Gill | M. O. Schrader | 11-19-56 | 490 | Dr | 65 | 6 | 65 | P | 55 | 10 | S,G | Pl | -- | 33 | ----- | D,S | La |
| 1R1 | L. Myers | W. L. Laughlin | 1946 | 525 | Du | 48 | 2½ | 48 | S | 40 | 8 | S,G | Pl | -- | 33 | ----- | D,S | Screen 20-in dia drive point |
| 2A1 | Western Indiana Gravel | ----do---------- | 2-29-51 | 490 | Dr | 98 | 6 | 98 | Oo | 21 | 77 | S,G | Pl | C | 16 | 5 | I | L; Dd 7 ft after 2½ hr pumping at 5 gpm |
| 12J1 | H. Tucker | M. Crabb | 1950 | 520 | Dr | 220 | 4 | 25 | Oh | ----- | ----- | ----- | P | -- | --- | ----- | D,S | Lam |
| 13E1 | C. Baldwin | W. L. Laughlin | 8-41 | 500 | Dr | 60 | 4 | 60 | Oo | 47 | 13 | S,G | Pl | U | 47 | ----- | D | A |
| 13P1 | R. Baldwin | M. Crabb | 1-51 | 490 | Dr | 59 | 4 | 39 | Oo | 36 | 3 | S,G | Pl | C | 30 | ----- | D,S | Lm, A |
| 13Q1 | G. Shorrill | W. L. Laughlin | 10-46 | 480 | Dr | 115 | 6 | 100 | Oh | 100 | 15 | Sh | P | C | 22 | ----- | N | L |
| 14R1 | E. M. Fisher | L. Schell | 7-15-59 | 495 | J | 63 | 2½ | 63 | S | 30 | 33 | S,G | Pl | C | 29 | 10 | D | La, A; Screen, 3 ft of 2½-in dia, no. 30 slot |
| 36R1 | C. Dickey | ----do---------- | 3-58 | 540 | Dr | 110 | 6 | 88 | S | 83 | 5 | S,G | Pl | C | 71 | 7 | D,S | Lm, A; Screen, 2 ft of no. 20 slot, bottom set at 88 ft |
| 16/8W- 2J1 | H. Ramsey | Ruark and Toney | 1946 | 780 | Dr | 112 | 6 | 36 | Oh | 32 | 80 | Sls | M | -- | --- | ----- | D,S | La |
| 2L1 | F. Gardner | ----do---------- | 1947 | 790 | Dr | 83 | 6 | 54 | Oh | 53 | 30 | Ls | M | -- | --- | ----- | S | La, A |
| 8C1 | C. Bushong | Swishor and Swank | 9-26-57 | 670 | Dr | 56 | 4 | 37 | Oh | 35 | 21 | Ss | P | -- | 39 | 12 | D,S | Lam, A |
| 9K1 | F. E. Spencer | R. L. Scobee and Sons | 1945 | 755 | Dr | 230 | 6 | 196 | Oh | 188 | 42 | Sls | M | -- | --- | ----- | D,S | La |
| 11F1 | W. B. McClain | Mr. Moolahan | 1886 | 790 | Dr | 108 | 3 | ----- | Oh | 100 | 8 | Sls | M | -- | --- | ----- | S | A |
| 12G1 | J. L. Allen | Ruark and Toney | 1948 | 780 | Dr | 111 | 6 | 88 | Oh | 84 | 27 | Ls | M | -- | --- | ----- | D,S | La, A |
| 12H1 | Indiana State Highway Department | ---------- | 1-15-57 | 756 | Dr | 40 | ----- | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | T | L |
| 12H2 | ----do---------- | ---------- | 1-11-57 | 758 | Dr | 40 | ----- | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | T | La |
| 12J1 | J. L. Allen | Layne-Northern Co., Inc. | 8-22-40 | 775 | Dr | 80 | 6 | 80 | S | 75 | 5 | S,G | Pl | C | 29 | 39 | D,S | L, A; Dd 10 ft pumping at 38 gpm; Screen, 5 ft of 8-in dia, no. 20 slot |
| 18C1 | C. Porter | Ruark Well Drilling | 6-25-60 | 655 | Dr | 200 | 8 | 30 | Oh | ----- | ----- | Sls? | M | -- | 26 | 2.5 | S | L, A; Dd 174 ft after 3 hr pumping at 2.5 gpm |
| 20M1 | M. Nesler | D. Chavis | -------- | 720 | Dr | 120 | 6 | 65 | Oh | 100 | 20 | Ss | P | -- | --- | ----- | D,S | A |
| 23E1 | Indiana State Highway Department | ---------- | 8-24-58 | 697 | Dr | 40 | ----- | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | T | L |
| 23E2 | ----do---------- | ---------- | 8-24-58 | 700 | Dr | 40 | ----- | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | T | La |
| 23M1 | ----do---------- | ---------- | 9-24-58 | 700 | Dr | 40 | ----- | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | T | La |
| 25P1 | M. L. Smith | D. Chavis | 8-54 | 785 | Dr | 228 | 6 | 112 | Oh | 112 | 116 | Ls | M | -- | --- | ----- | D,S | Lam, A |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16/6W-28E1 | R. E. Smith | D. Chavis | -------- | 750 | Dr | 200 | 6 | 200 | Qa | ----- | ----- | S | Pl | -- | 50 | ----- | D,S | A |
| 28H1 | R. Spencer | V. Hayden | 1946 | 735 | Dr | 80 | 6 | 60 | Qa | 77 | 3 | G | Pl | -- | --- | ----- | D,S | L |
| 28P1 | L. Leatherman | M. Crabb | 11-15-51 | 740 | Dr | 188 | 4 | 60 | Oh | 60 | 128 | Sh | M | C | 25 | ----- | D,S | Lm, A |
| 31Q1 | R. Neild | A. H. Scoboe | 4- 5-60 | 730 | Dr | 128 | 7 | 48 | Oh | 113 | 15 | Ls | M | C | 30 | 13 | D,S | L, A; Dd 60 ft after 3 hr bailing at 13 gpm |
| 34N1 | R. Coleman | M. O. Schrader | 9- 4-54 | 740 | Dr | 230 | 6 | 92 | Oh | ----- | ----- | ----- | P | -- | --- | 1 | S | L, A |
| 35M1 | F. Fritts | Ruark Well Drilling | 10-20-59 | 750 | Dr | 105 | 6 | 39 | Oh | ----- | ----- | ----- | P | C | 13 | 6 | D,S | L, A; Dd 90 ft after 1 hr bailing at 6 gpm |
| 35Q1 | J. C. Shalley | V. Hayden | 1947 | 760 | Dr | 146 | 8 | 34 | P | 36 | 8 | Ss | P | -- | --- | ----- | --- | |
| | | | | | | | 4 | 146 | | 138 | 10 | Ss | P | -- | --- | ----- | D,S | La, A |
| 18/7W- 3K1 | H. Butler | W. L. Laughlin | 6- 1-58 | 705 | Dr | 112 | 7 | 85 | Oh | 104 | 8 | Ss | P | C | 14 | 10 | S | L, A; Dd 8 ft after 5 hr pumping at 10 gpm |
| 4G1 | A. S. Hadley | ----do---------- | 4-34 | 665 | Dr | 80 | 2½ | 59 | Oh | 60 | 3 | C | P | C | 15 | ----- | D | La |
| 4G2 | ----do---------- | ----do---------- | 4-34 | 650 | Dr | 76 | 2 | 58 | Oh | 70 | 3 | C | P | C | 8 | ----- | S | L |
| 4H1 | L. Davies | ----do---------- | 6-22-55 | 680 | Dr | 230 | 6 | 84 | Oh | 218 | 12 | Ss | P | C | 150 | 3.5 | D,S | La; Dd 80 ft after 2 hr pumping at 3.5 gpm |
| 4H2 | A. S. Hadley | ----do---------- | 4-34 | 670 | Dr | 90 | 2 | 58 | Oh | 67 | 3 | Ls | P | C | 10 | 20 | N | La; Dd 12 ft pumping at 20 gpm |
| 4H3 | P. Roberts | ----do---------- | 10-46 | 675 | Dr | 200 | 6 | 94 | Oh | 160 | 20 | Ss | P | C | 80 | 2.5 | D,S | L, A |
| 4H4 | ----do---------- | ----do---------- | 3-40 | 675 | Dr | 146 | 4 | 81 | Oh | 80 | 10 | F,Ls | P | C | 18 | 3 | D | La |
| 4K1 | O. Myers | ----do---------- | -------- | 670 | Dr | 54 | ----- | ----- | Oh | 42 | 12 | Ss | P | C | 12 | ----- | D,S | La |
| 4K2 | S. J. Lee | ----do---------- | 7-36 | 675 | Dr | 81 | 4 | 80 | Qa | 80 | 1 | G | Pl | C | 30 | ----- | D,S | L, A |
| 4L1 | A. W. Camerly | ----do---------- | -------- | 680 | Dr | 80 | 6 | 40 | Oh | 40 | 40 | Ss | P | -- | 40 | ----- | D,S | La |
| 4L2 | Kraft Food Co. | J. P. Miller Artesian Well Co. | 1954 | 680 | Dr | 43 | ----- | ----- | ----- | 34 | 9 | S,G | Pl | -- | --- | ----- | T | L |
| 4M1 | A. Hockett | W. L. Laughlin | 9-46 | 680 | Dr | 118 | 6 | 43 | Oh | 58 | 62 | Sh,Ls | P | C | 6 | ----- | D,S | La |
| 4P1 | W. Wilson | Ruark Well Drilling | 2-20-61 | 680 | Dr | 51 | 4 | 51 | S | 50 | 1 | G | Pl | C | 15 | 12 | D | La, Dd 30 ft after 1½ hr pumping at 12 gpm; Screen, 25 ft of 4-in dia, no. 20 slot |
| 5N1 | F. DePlanty | M. O. Schrader | 4- 7-57 | 630 | Dr | 64 | 6 | 84 | Qa | 60 | 4 | S,G | Pl | -- | --- | 17 | D,S | La, A |
| 6D1 | W. Ritchey | Ruark Well Drilling | 5-27-60 | 640 | Dr | 298 | 6 | 104 | Oh | ----- | ----- | ----- | P,M | C | 85 | .2 | D | L, A; Dd 213 ft after 1 hr bailing at 0.2 gpm |
| 6N1 | C. Chamness | W. L. Laughlin | 10-53 | 660 | Dr | 88 | 6 | 44 | Oh | 80 | 8 | Ls | P | C | 30 | 5 | P | L, A, Dd 19 ft after 3 hr pumping at 5 gpm |
| 7C1 | W. Ritchey | ----do---------- | 8-54 | 650 | Dr | 42 | 6 | 42 | Qa | 38 | 4 | S,G | Pl | C | 12 | 6 | D | La, A; Reported Dd 0 ft after 4 hr pumping at 6 gpm |
| 7J1 | G. Timberlake | C. E. Crick | 7-11-51 | 690 | Dr | 1,259 | ----- | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | --- | F. D. Cline 1; La, E (partial) |
| 8L1 | W. O. Engle | W. L. Laughlin | 4-49 | 660 | Dr | 28 | 8 | 28 | Qe | 27 | 1 | S,G | Pl | -- | --- | ----- | D,S | L |
| 9C1 | I. Ulery | ----do---------- | 4-35 | 685 | Dr | 89 | 4 | 52 | Oh | 71 | 28 | Sh,Ls | P | C | 9 | ----- | D | La, Water from crevice at 94 ft |
| 9F1 | Kraft Foods Co. | J. P. Miller Artesian Well Co. | 2-10-56 | 710 | Dr | 315 | 12 | 97 | Oh | 190 | 10 | Ss | P | C | 135 | 25 | I | L |
| | | | | | | | | | | 230 | 15 | Ss | P | | | | | |
| 9F2 | G. Marshall | W. L. Laughlin | 5-36 | 700 | Dr | 59 | 4 | 30 | Oh | 25 | 34 | Ss | P | C | 21 | ----- | D | La |
| 9G1 | Kraft Foods Co. | R. L. Scoboe and Sons | 1932 | 700 | Dr | 189 | ----- | 68 | Oh | ----- | ----- | Ss | P | -- | --- | ----- | Do | La |
| 9G2 | ----do---------- | Strommel and Hill | 3-34 | 700 | Dr | 251 | 10 | 70 | Oh | ----- | ----- | ----- | P | -- | 84 | 18 | Do | La |
| 9G3 | ----do---------- | E. R. Parker | -------- | 700 | Dr | 1,100 | 10 | ----- | ----- | ----- | ----- | ----- | P | -- | 122 | 50 | I | La; Well backfilled to 239 ft 239 ft |
| 9L1 | Town of Marshall | Ruark Well Drilling | 1958 | 700 | Dr | 240 | 8 | 77 | Oh | 80 | 5 | Ss | P | -- | --- | 12 | P | L |
| | | | | | | | | | | 85 | 20 | Ls | P | | | | | |
| | | | | | | | | | | 145 | 13 | Ls | P | | | | | |
| | | | | | | | | | | 170 | 7 | Ss | P | | | | | |
| | | | | | | | | | | 210 | 15 | Ls | P | | | | | |
| 9P1 | ----do---------- | Strommel and Hill | 11-15-41 | 690 | Dr | 150 | 10 | 101 | P,Oh | 70 | 2 | G | Pl | -- | --- | 10 | P | |
| 10C1 | G. E. Branson | M. Crabb | 9-52 | 700 | Dr | 258 | 4 | 67 | Oh | 67 | 189 | Sh,Ss | P | C | 40 | ----- | D,S | Lam; Well dry 5-18-61 |
| 10C2 | ----do---------- | ----do---------- | -------- | 700 | Dr | 127 | 4 | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | Do | Lam (partial); dry hole |
| 10C3 | ----do---------- | ----do---------- | -------- | 700 | Dr | 33 | 4 | 33 | Qo | 33 | ----- | G | PL | C | F | ----- | Do | Lam; Well dry 5-18-61 |
| 12L1 | H. Flum | Swisher and Swank | -------- | 765 | Dr | 180 | 4 | 98 | Oh | ----- | ----- | Sh | P | C | 20 | 1.5 | D,S | A |
| 15E1 | H. Evans | W. L. Laughlin | 10-29-59 | 765 | Dr | 270 | 7 | 110 | Oh | 230 | 40 | Ss | P | C | 54 | 5 | S | L, A; Dd 45 ft after 2 hr bailing at 5 gpm |
| 15R1 | L. O. Pyle | ----do---------- | 2-47 | 745 | Dr | 196 | 6 | 100 | Oh | 118 | 77 | Ss | P | C | 30 | ----- | D | L, A |
| 16K1 | R. Allen | Ruark and Toney | 1948 | 750 | Dr | 175 | 6 | 149 | Oh | 145 | 30 | Ss | Pl | -- | --- | ----- | D,S | La, A |
| 16L1 | W. Shoaf | W. L. Laughlin | 4-34 | 750 | Dr | 148 | 4 | 148 | Qa | 146 | 2 | G | Pl | C | 30 | ----- | D | L, A |
| 17F1 | J. Jones | ----do---------- | 9- 1-51 | 665 | Dr | 102 | 6 | 75 | Oh | 91 | 11 | Ss | P | C | 5 | 5 | D | L, A; Dd 20 ft pumping at 5 gpm |
| 17M1 | ----do---------- | ----do---------- | 4-47 | 685 | Dr | 103 | 6 | 85 | Oh | 85 | 18 | Ss | P | C | 18 | 6 | D | La, A |
| 19J1 | C. Manner | ----do---------- | 2-54 | 725 | Dr | 220 | 6 | 150 | Oh | 200 | 20 | Ss | P | C | 80 | 3 | S | L, A; Dd 70 ft after 2 hr pumping at 3 gpm |
| 19N1 | B. Warren | W. L. Laughlin | 4-46 | 715 | Dr | 141 | 4 | 103 | Oh | 115 | 5 | C | P | C | 21 | 2.5 | D | L, A |
| | | | | | | | | | | 124 | 16 | Ls | P | | | | | |
| 20L1 | A. Stark | ----do---------- | 3-37 | 740 | Dr | 111 | 4 | 86 | Oh | 86 | 25 | Ss | P | C | 18 | ----- | D | L, A |
| 21L1 | R. Winings | ----do---------- | 1939 | 725 | Dr | 90 | 4 | 62 | Oh | 61 | 29 | Ss | P | C | 30 | ----- | D | L, A |
| 22L1 | R. Overpack | D. Chavis | -------- | 720 | Dr | 100 | 6 | 100 | Qe | ----- | ----- | G | Pl | -- | --- | ----- | D | A |
| 22L1 | J. Wrightsman | ----do---------- | -------- | 715 | Dr | 130 | 6 | 80 | Oh | ----- | ----- | Ss | P | -- | --- | 4 | D,S | |
| 23K1 | G. Baker | Ruark and Toney | 1948 | 740 | Dr | 93 | 6 | 75 | Oh | 74 | 19 | Ls? | M | -- | --- | ----- | D,S | La, A |

Table 4.--Record of wells, Parke County, Indiana--Continued

| Well No. | Owner | Driller | Date completed | Altitude (feet) | Type of well | Depth of well below land-surface (feet) | Diameter (inches) | Depth of casing (feet) | Finish | Water-bearing zone | | | | | Water level (feet) | Yield (gpm) | Use | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Depth to top (feet) | Thickness (feet) | Material | Geologic age | Ground-water occurrence | | | | |
| 16/7W-24L1 | C. Baker | W. L. Laughlin | 8-10-52 | 615 | Dr | 65 | 6 | 43 | Oh | 43 | 22 | Ls | M. | C | 21 | 10 | D | L, A |
| 24N1 | R. Bell | D. Chavis | -------- | 640 | Dr | 50 | 6 | 50 | Oo | ----- | ----- | S | Pl | -- | --- | ----- | S | A |
| 25F1 | C. Thompson | M. O. Schrader | 8-11-56 | 645 | Dr | 44 | 6 | 38 | Oh | 36 | 8 | Ss | P | -- | --- | 17 | I | L, A |
| 26Q1 | F. S. Hinkley | W. L. Laughlin | 5-19-60 | 630 | Dr | 48 | 6 | 37 | P,Oh | 28 | 9 | S,G | Pl | C | 18 | 10 | D | L, A; Dd 2 ft after 5 hr bailing at 10 gpm |
| 29E1 | M. E. Adair | ----do---------- | 5-46 | 725 | Dr | 104 | 4 | 84 | Oh | 99 | 5 | C | P | C | 30 | ----- | D,S | L, A |
| 29Q1 | C. Joslin | ----do---------- | 10- 2-59 | 685 | Dr | 94 | 6 | 20 | Oh | 50 | 6 | Ss | P | C | F | 10 | S | L, A; Dd 25 ft after 2 hr bailing at 10 gpm |
| | | | | | | | | | | 85 | 5 | Sh | P | | | | | |
| 30F1 | M. F. Berry | ----do---------- | 5-15-50 | 710 | Dr | 197 | 5 | 150 | Oh | 196 | 1 | Ls | P | C | 50 | ----- | D,S | L, A |
| 30G1 | E. Overpeck | M. O. Schrader | 1-30-59 | 725 | Dr | 44 | 6 | 44 | S | 36 | 8 | S,G | Pl | C | 11 | 17 | D,S | La, A; Screen, 5 ft of 6-in dia, no. 50 slot |
| 30N1 | R. Grimes | W. L. Laughlin | 9-53 | 700 | Dr | 100 | 6 | 100 | Oo | 99 | 1 | S,G | Pl | C | 18 | 5 | D | L, A; Dd 30 ft after 8 hr pumping at 5 gpm |
| 32H1 | J. Mull | ----do---------- | 3-43 | 695 | Dr | 80 | 4 | 53 | Oh | 53 | 27 | Ss | P | C | 21 | ----- | D | L, A |
| 33D1 | H. P. Mull | R. McDaniel and Sons | 8-24-57 | 700 | Dr | 83 | 6 | 83 | Oh | 60 | 23 | Ss | P | C | 14 | 2 | D | L, A |
| 33N1 | J. M. Mull | W. L. Laughlin | 5-12-52 | 700 | Dr | 102 | 6 | 54 | S,Oh | 50 | 4 | G | Pl | C | 14 | 8 | D | L, A; Screen 4 ft of 4-in dia, no. 15 slot |
| 35E1 | D. Thomas | D. Chavis | -------- | 700 | Dr | 125 | 6 | 80 | Oh | ----- | ----- | Ss | P | -- | --- | 2 | D | |
| 35Q1 | R. E. Adams | W. L. Laughlin | 8-27-56 | 585 | Dr | 34 | 6 | 34 | P | 14 | 20 | G | Pl | U | 14 | 13 | D,S | L, A |
| 16/8W-1E1 | L. Osborne | ----do---------- | 7- 9-45 | 670 | Dr | 139 | 6 | 111 | Oh | 115 | 24 | Ss | P | -- | --- | 10 | D,S | L; Dd 15 ft bailing at 10 gpm |
| 1H1 | ----do---------- | ----do---------- | 4-15-55 | 655 | Dr | 102 | 7 | 38 | Oh | 35 | 40 | Ss | P | C | 30 | 7 | S | La; Dd 20 ft after 5 hr pumping at 7 gpm |
| 1R1 | J. C. McNargulo | ----do---------- | 7-49 | 650 | Dr | 30 | 6 | 30 | Oo | 29 | 1 | S,G | Pl | -- | --- | ----- | S | La |
| 2M1 | F. C. Alloe | ----do---------- | -------- | 675 | Dr | 81 | 6 | 80 | Oo | 80 | 1 | G | Pl | C | 24 | 5 | D,S | L, A; Dd 10 ft after 3 hr bailing at 5 gpm |
| 5L1 | L. and A. Polotto | ---------- | 8-15-52 | 550 | Dr | 1,260 | ----- | ----- | ------ | ----- | ----- | ----- | ---- | -- | --- | ----- | Og | Ralph Mobley, Jr. 1; La |
| 5P1 | A. Polotto | ---------- | 2-22-50 | 525 | Dr | 1,130 | ----- | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | Og | O. O. Borden 1; La |
| 7K1 | L. Causey | M. Crabb | 12-51 | 530 | Dr | 70 | 4 | 70 | Oo | ----- | ----- | G | Pl | -- | 40 | ----- | D | |
| 7K2 | A. Taylor | M. O. Schrader | 10-29-52 | 530 | Dr | 90 | 6 | 90 | Oo | 90 | ----- | G | Pl | -- | --- | 2 | D | La, A |
| 7Q1 | H. Norman | ----do---------- | 10-25-54 | 530 | Dr | 193 | 6 | 97 | Oh | ----- | ----- | ----- | P | -- | --- | .5 | D | L, A |
| 7Q2 | L. Manwaring | ----do---------- | 2- 9-55 | 530 | Dr | 148 | 6 | 148 | Oo | 144 | 5 | G | Pl | -- | --- | 17 | D,S | L, A |
| 8N1 | G. Holsapple | D. Chavis | 4-55 | 605 | Dr | 285 | 6 | ----- | Oh | ----- | ----- | ----- | P | -- | 81 | 1.5 | D | L, A |
| 10Q1 | M. Davies | W. L. Laughlin | 1-58 | 680 | Dr | 215 | 6 | 80 | Oh | ----- | ----- | ----- | P | C | 60 | 10 | D,S | L; Dd 60 ft after 2 hr pumping at 10 gpm |
| 11A1 | L. G. Ayres | ----do---------- | 6-22-51 | 650 | Dr | 210 | 6 | 70 | Oh | 160 | 10 | Ss | P | C | 20 | 5 | D,S | L, A; Dd 60 ft after 2 hr pumping at 5 gpm |
| | | | | | | | | | | 196 | 14 | Ss | P | C | | | | |
| | | | 5- 9-60 | | | 253 | | | | | | | | | 18 | 6 | | Dd 40 ft after 2 hr bailing at 6 gpm; Well deepened by W. L. Laughlin |
| 12C1 | L. Shelata | ----do---------- | 1946 | 645 | Dr | 82 | 4 | 82 | S | 82 | ----- | G | Pl | C | 18 | ----- | D | La; Screen, 3 ft, no. 60 gauze |
| 12D1 | J. R. Coffin | ----do---------- | -------- | 645 | Dr | 72 | 3 | 72 | Oo | 60 | 12 | S,G | Pl | C | --- | ----- | D | La |
| 12D2 | W. L. Laughlin | ----do---------- | -------- | 640 | Dr | 63 | 4 | 63 | S | 60 | 3 | S,G | Pl | C | 18 | ----- | D | La; Screen, 3 ft, no. 60 gauze |
| 12D3 | E. Crowder | ----do---------- | 9-22-56 | 640 | Dr | 80 | 6 | 80 | Oo | 60 | 20 | S,G | Pl | C | --- | 10 | D | L; Dd 15 ft after 3 hr pumping at 10 gpm |
| 12D4 | A. Wallace | ----do---------- | 4-10-60 | 640 | Dr | 60 | 4 | 60 | P | 57 | 3 | G | Pl | C | 11 | 6 | D | La; Dd 3 ft after 8 hr bailing at 6 gpm |
| 12E1 | J. Hannor | ----do---------- | 2-58 | 640 | Dr | 35 | 6 | 35 | Oo | 30 | 5 | G,Cl | Pl | C | 12 | 5 | D | La; Dd 3 ft after 3 hr pumping at 5 gpm |
| 12H1 | L. Chapman | ----do---------- | 1- 2-55 | 660 | Dr | 222 | 6 | 60 | Oh | 210 | 12 | Ls | M | C | 50 | 3.5 | D,S | L, A |
| 13D1 | J. O. Evans | ----do---------- | 1948 | 630 | Dr | 38 | 6 | 36 | Oo | 38 | ----- | G | Pl | C | 16 | 30 | P | La |
| 13E1 | M. Cox | ----do---------- | 4-53 | 650 | Dr | 110 | 6 | ----- | Oh | 100 | 10 | Ss | P | C | 27 | 1.5 | D | L |
| 13E2 | W. Dinsmore | ----do---------- | 1947 | 640 | Dr | 52 | 8 | 52 | S | 32 | 20 | S | Pl | C | 10 | ----- | D | La; Screen, 2-in dia |
| 13E3 | W. Dooley | W. L. Laughlin | 8-27-51 | 640 | Dr | 78 | 6 | 60 | Oh | 68 | 10 | Ss | P | C | 20 | 5 | D | La, A; Dd 10 ft after 2½ hr pumping at 5 gpm |
| 13E4 | Farm Bureau Co-op | ----do---------- | 1-57 | 645 | Dr | 135 | 8 | 75 | Oh | 126 | 9 | Ss | P | C | 18 | 10 | I | La; Dd 30 ft after 3 hr bailing at 10 gpm |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16/8W-13F1 | J. Coffin | W. L. Laughlin | 3-47 | 650 | Dr | 140 | 5 | 70 | Oh | ----- | ----- | ----- | P | C | 30 | 6 | D | L, A; Dd 28 ft pumping at 6 gpm |
| 13F2 | R. Norris | ----do---------- | 8-53 | 650 | Dr | 116 | ----- | ----- | Oh | ----- | ----- | ----- | P | C | 30 | 5 | D | La; Dd 30 ft after 5 hr pumping at 5 gpm |
| 13F3 | L. Rukes | ----do---------- | 7-53 | 650 | Dr | 95 | ----- | ----- | Oh | ----- | ----- | ----- | P | C | 30 | 8 | D | La; Dd 20 ft after 10 hr pumping at 8 gpm |
| 13F4 | R. Musson | ----do---------- | 1946 | 640 | Dr | 120 | 6 | 80 | Oh | 90 | 30 | Ss | P | C | 30 | ----- | D | La |
| 13F5 | F. G. Greene | ----do---------- | -------- | 645 | Dr | 80 | 6 | 70 | Oh | 70 | 10 | Ss | P | C | 18 | 5 | D | La; Dd 1ft after 2 hr pumping at 5 gpm |
| 13F6 | J. M. Evans | ----do---------- | 5- 2-55 | 650 | Dr | 120 | 6 | 68 | Oh | 102 | 18 | Ss | P | C | 31 | 12 | D | La; Dd 25 ft after 2 hr pumping at 12 gpm |
| 13J1 | C. Hannor | ----do---------- | 11-20-52 | 645 | Dr | 78 | 6 | 76 | Oo | 74 | 2 | G | Pl | C | 12 | 15 | D,S | L |
| 13L1 | W. Flock | ----do---------- | 2-53 | 645 | Dr | 88 | 6 | 56 | Oh | ----- | ----- | ----- | P | C | 23 | 8 | D | La |
| 13L2 | R. Henshaw | ----do---------- | 11-58 | 650 | Dr | 104 | 8 | 48 | Oh | 90 | 14 | Ss,Ls | P | C | 18 | 5 | D | L; Dd 20 ft after 5 hr bailing at 5 gpm |
| 13L3 | M. Brown | ----do---------- | 5-10-56 | 650 | Dr | 80 | 6 | 60 | Oh | 80 | 20 | Ss | P | C | --- | 8 | D | La; Dd 10 ft after 3 hr pumping at 8 gpm |
| 13M1 | L. J. Brown | ----do---------- | 1934 | 640 | Dr | 85 | 4 | 70 | Oh | 70 | 15 | Ss | P | C | 30 | 6 | D | La |
| 13M2 | M. Swaim | ----do---------- | 10-54 | 650 | Dr | 98 | 6 | 80 | Oh | ----- | ----- | ----- | P | C | 36 | 4 | D | La; Dd 12 ft after 10 hr pumping at 4 gpm |
| 13M3 | Friends Church | ----do---------- | 12- 5-51 | 650 | Dr | 100 | 6 | 75 | Oh | ----- | ----- | Ss | P | C | 30 | 5 | P | La; Dd 18 ft bailing at 5 gpm |
| 13P1 | Mr. Jeffers | ----do---------- | 5-48 | 615 | Dr | 52 | 6 | 52 | Oo | 50 | 2 | S,G | Pl | C | 18 | ----- | D | L |
| 13P2 | V. Hinshaw | ----do---------- | 4-47 | 615 | Dr | 69 | 4 | 57 | Oh | 56 | 13 | Ss | P | C | 10 | ----- | D | La |
| 13P3 | C. Flock | ----do---------- | 4- 1-55 | 615 | Dr | 71 | 6 | 50 | Oh | 50 | 21 | Ss | P | C | 10 | 10 | D | L |
| 13P4 | C. Ozier | ----do---------- | 7-53 | 615 | Dr | 80 | ----- | ----- | Oh | 50 | 30 | Ss | P | C | 13 | 8 | D | La; Dd 18 ft after 6 hr pumping at 8 gpm |
| 13P5 | L. McMastors | ----do---------- | 4-54 | 610 | Dr | 38 | 6 | 38 | Oo | 34 | 4 | S,G | Pl | C | 12 | 5 | D | La; Dd 12 ft after 3 hr pumping at 5 gpm |
| 13P6 | S. L. Osborne | ----do---------- | 6- 1-55 | 610 | Dr | 38 | 6 | 38 | Oo | 37 | 1 | G | Pl | C | --- | 5 | D | La |
| 14D1 | J. E. Russell | M. Crabb | 4-30-57 | 610 | Dr | 50 | 4 | 50 | S | 21 | 29 | S | Pl | C | 12 | 15 | D | L; Dd 12 ft pumping at 15 gpm; Screen 6 ft, no. 14 and 20 slot |
| 14H1 | W. Leonard | W. L. Laughlin | 6- 5-55 | 645 | Dr | 100 | 8 | 100 | Oo | 98 | 2 | G | Pl | C | 15 | 10 | D | La; Reported Dd 0 ft after 3 hr bailing at 10 gpm |
| 14J1 | L. Ditto | ----do---------- | 1934 | 630 | Dr | 97 | 4 | 72 | Oh | 72 | 25 | Ls-sh | P | C | 9 | 6 | D | L, A; Dd 15 ft pumping at 8 gpm |
| 16C1 | C. Cox | ---------- | 4-28-57 | 611 | Dr | 741 | ----- | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | Og | R. Brinkley 1; La |
| 16M1 | C. Hartlow | ---------- | 8-30-44 | 606 | Dr | 1,504 | ----- | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | Og | C. C. Nye 1; La; Well plugged at 250 ft, 1-9-45; completed as a water well |
| 16R1 | J. Whitely | W. L. Laughlin | 8- 2-53 | 650 | Dr | 100 | 6 | 46 | Oh | 46 | 44 | Sh | P | C | 30 | ----- | D,S | L, A |
| 18B1 | I. O. Hobson | M. Crabb | 12-18-49 | 530 | Dr | 210 | 4 | 42 | Oh | ----- | ----- | ----- | P | C | 45 | ----- | D,S | Lam, A |
| 18E1 | F. M. Adams | W. L. Laughlin | 4-49 | 520 | Dr | 102 | 8 | 33 | Oh | 48 | 22 | Sls | P | C | 8 | 3 | S | L, A |
| | | | | | | | | | | 70 | 26 | Ss | P | C | | | | |
| | | | | | | | | | | 102 | ----- | Ss | P | C | | | | |
| 19M1 | R. Simpson | Campbell Brothers | 9- 3-54 | 510 | Dr | 230 | 6 | 28 | Oh | 56 | 7 | Sd-sh | P | C | 24 | ----- | S | L, A; Reported salt water 176 to 187 ft |
| 20N1 | M. A. Phillips | W. L. Laughlin | 4-10-49 | 550 | Dr | 150 | 6 | 70 | Oh | 120 | 15 | Ss | P | C | 20 | ----- | D | L, A |
| 22Q1 | W. H. Wiedner | ----do---------- | 2-49 | 665 | Dr | 34 | 8 | 34 | P | 24 | 1 | G | Pl | C | 10 | ----- | D | L, A |
| 23H1 | V. Woodard | ----do---------- | 8-19-53 | 605 | Dr | 90 | 8 | 55 | Oh | 53 | 35 | Ss | P | C | 18 | 8 | N | La; Dd 10 ft after 5 hr pumping at 8 gpm; Well backfilled with coarse gravel to 55 ft |
| 23K1 | ----do---------- | ----do---------- | 11-21-49 | 615 | Dr | 90 | 6 | 56 | Oh | 76 | 10 | Ss | P | C | 20 | 15 | D | L, A; Dd 18 ft pumping at 15 gpm |
| 23P1 | Ferguson Lumber Co. | ----do---------- | 3-25-52 | 620 | Dr | 200 | 6 | 72 | Oh | ----- | ----- | ----- | P | C | 21 | 5 | S | L; Dd 40 ft after 2½ hr pumping at 5 gpm |
| 24A1 | B. Miller | ----do---------- | 11-15-56 | 695 | Dr | 126 | 0 | 50 | Oh | 92 | 34 | Ss | P | C | 55 | 10 | D | La; Dd 20 ft after 2 hr bailing at 10 gpm |
| 24A2 | R. Crowder | ----do---------- | 4-54 | 695 | Dr | 110 | 6 | 70 | Oh | 84 | 26 | Ss | P | C | --- | 8 | P | L; Dd 20 ft after 4 hr bailing at 8 gpm |
| 24C1 | R. Smith | ----do---------- | 8-46 | 625 | Dr | 79 | 5 | 50 | Oh | 50 | 29 | Ss | P | C | 10 | ----- | D | La |
| 24F1 | W. Jeffers | ----do---------- | 5-20-51 | 640 | Dr | 44 | 8 | 44 | S | 28 | 16 | S,G | Pl | C | 12 | 10 | D,S | L, A; Dd 3 ft after 3 hr pumping at 10 gpm; Screen, 4 ft of 4-in dia, no. 18 slot |
| 26J1 | E. Beavers | ----do---------- | 1948 | 715 | Dr | 99 | 8 | 99 | Oo | 96 | 3 | G | Pl | C | 18 | 5 | D,S | L, A |
| 26J2 | ----do---------- | ----do---------- | 1938 | 710 | Dr | 185 | 4 | 101 | Oh | 172 | 23 | Ls,sh | P | C | 55 | ----- | N | La |
| | | | | | | | 3 | 147 | | | | | | | | | | |
| 27D1 | N. Cox | ---------- | -------- | 670 | Dr | 122 | ----- | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | T | L; Ashley (1899) |
| 28G1 | M. Henry | W. L. Laughlin | 4- 5-51 | 600 | Dr | 62 | 8 | 21 | Oh | 50 | 12 | Ss,Ls | P | C | 12 | 5 | D,S | La; Dd 20 ft pumping at 5 gpm |
| 30E1 | Panhandle Eastern Pipeline Co. | Layne-Northern Co., Inc. | 5- 6-56 | 500 | Dr | 20 | ----- | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | T | La |

Table 4.--Record of wells, Parke County, Indiana--Continued

| Well No. | Owner | Driller | Date completed | Altitude (feet) | Type of well | Depth of well below land-surface (feet) | Diameter (inches) | Depth of casing (feet) | Finish | Water-bearing zone: Depth to top (feet) | Water-bearing zone: Thickness (feet) | Water-bearing zone: Material | Water-bearing zone: Geologic age | Water-bearing zone: Ground-water occurrence | Water level (feet) | Yield (gpm) | Use | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16/8W-30E2 | Panhandle Eastern Pipe-line Co. | ----do---------- | 5- 8-38 | 500 | Dr | 48 | ----- | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | T | La |
| 30E3 | ----do---------- | ----do---------- | 5-10-38 | 520 | Dr | 58 | ----- | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | T | L |
| 30E4 | ----do---------- | ----do---------- | 5-12-38 | 490 | Dr | 22 | ----- | ----- | ----- | ----- | ----- | ----- | ---- | -- | 3 | ----- | T | La |
| 31K1 | Marion Brick Works | C. J. Cassidy | 1902 | 550 | Dr | 145 | 6 | 40 | Oh | 120 | 25 | Ss | P | -- | --- | ----- | N | La |
| 33F1 | H. Overpeck | W. L. Laughlin | 12-19-49 | 680 | Dr | 68 | 8 | 50 | Oh | 60 | 6 | Ss | P | C | 19 | 6 | N | L; Well backfilled with gravel to 50 ft |
| 34K1 | O. Rennick | ----do---------- | 9-10-50 | 720 | Dr | 237 | 8 | 133 | Oh | 145 | 10 | Sh,C | P | C | 96 | 4 | D,S | L, A |
| | | | | | | | | | | 225 | 7 | C | P | C | | | | |
| | | | | | | | | | | 235 | 2 | La | P | C | | | | |
| 35R1 | G. Aldea and M. Hurley | C. J. Cassidy (?) | -------- | 730 | Dr | 65 | 4 | 65 | Ca | ------ | ----- | G | Pl | -- | --- | ----- | N | |
| 36G1 | Parke County Farm Home | ----do---------- | 1943 | 680 | Dr | 107 | 6 | 107 | Ca | ------ | ----- | G | Pl | -- | --- | ----- | P | A |
| 16/8W-25M1 | Panhandle Eastern Pipe-line Co. | Layne-Northern Co., Inc. | 5-15-38 | 490 | Dr | 60 | 38 | 43 | Gp | 17 | 43 | S,G | Pl | U | 17 | 300 | I | La, A; Dd 0.67 ft pumping at 300 gpm; Screen, 15 ft of 18-in dia, no. 5 shutter |
| | | | | | | | 18 | 60 | | | | | | | | | | |
| 25R2 | J. W. Oberholtzer | M. O. Schrader | 4-27-57 | 490 | Dr | 62 | 6 | 62 | P | 5 | 57 | S,G | Pl | U | ---- | 25 | S | |
| 25N1 | F. T. Moore | H. H. Fox and Sons | 11- 7-55 | 514 | Dr | 124 | 12 | 108 | P | 67 | 57 | G | Pl | C | 56 | 700 | O, Ir | L, G; Observation well Parke 3, W |
| | | | | | | | 10 | 124 | | | | | | | | | | |
| 35H1 | Town of Montezuma | American Well Works | 1924 | 505 | Dr | 80 | 12 | 80 | S | ----- | ----- | G | Pl | -- | 28 | 500 | De | |
| 35R2 | ----do---------- | ----do---------- | 1924 | 505 | Dr | 80 | 10 | 80 | ----- | ----- | ----- | G | Pl | -- | ---- | 300 | De | |
| 35H3 | Veterans of Foreign Wars | Kendall and McNorton | 1900 | 500 | Da | 40 | 3 | 49 | ----- | 45 | 4 | G | Pl | -- | --- | ----- | P | |
| 35R1 | H. Roador | ---------- | 1890 | 490 | Dr | 1,687 | 6 | ----- | ----- | ----- | ----- | ----- | D | -- | --- | ----- | Do | Montezuma Mineral Springs |
| 35R2 | ----do---------- | ---------- | 1888 | 485 | Dr | 1,987 | 8 | ----- | ----- | ----- | ----- | ----- | D | C | F | ----- | D | A; Montezuma Mineral Springs |
| 35R3 | Montezuma Lumber Co. | A. Domotto | 1901 | 495 | Dr | 58 | ----- | ----- | ----- | 50 | 4 | G | Pl | -- | --- | ----- | D,S | |
| 35R4 | B. Dunett | ----do---------- | 1901 | 490 | Dr | 54 | 2½ | 54 | S | 51 | 3 | G | Pl | -- | --- | ----- | D | |
| 36D1 | Town of Montezuma | H. H. Fox and Sons | 7-54 | 515 | Dr | 134 | 12 | 134 | S | 67 | 67 | G | Pl | C | 57 | 1,000 | P | L, Dd 22 ft after 4 hr pumping at 1,000 gpm; Screen, 10 ft, no. 40 slot and 10 ft no. 60 slot |
| 36D2 | ----do---------- | ----do---------- | 9-19-56 | 515 | Dr | 131 | 12 | 131 | S | 70 | 61 | G | Pl | C | 52 | 950 | P | La; Dd 36 ft after 3 hr pumping at 950 gpm, Screen, 10 ft, no. 40 slot and 10 ft, no. 60 slot |
| 36P1 | Dunn Brothers | M. Crabb | 1951 | 490 | Dr | 63 | 4 | 63 | Ca | 30 | 33 | G | Pl | U | 30 | ----- | D,S | A |
| 17/6W- 5D1 | A. Cloro | ----do---------- | 5-54 | 730 | Dr | 43 | 4 | 39 | Oh | 39 | 4 | Ss | P | C | 15 | ----- | D,S | Lm, A |
| 8C1 | C. V. Burkhart | ----do---------- | 6-54 | 730 | Dr | 122 | 4 | 87 | Oh | 87 | 55 | Sh | M? | C | 35 | ----- | D,S | Lm, A |
| 6Q1 | A. P. Myers | ----do---------- | 6- 4-46 | 730 | Dr | 125 | 4 | 40 | Oh | 40 | 85 | Sh | M? | -- | 50 | ----- | D,S | Lm, A |
| 7B1 | C. Moore | ----do---------- | 1855 | 720 | Dr | 150 | 4 | 86 | Oh | 86 | 64 | Sh | M | C | 30 | ----- | D,S | Lm, A |
| 18A1 | M. Corrado | W. L. Laughlin | 7-49 | 545 | Dr | 52 | 6 | 20 | Oh | 48 | 4 | Ss | M | C | 18 | ----- | D | L, A |
| 18L1 | M. Smith | Swisher and Swank | -------- | 670 | Dr | 150 | 4 | 150 | S | ------ | ----- | G | Pl | -- | 50 | ----- | D | A |
| 21C1 | T. M. Garland | M. Crabb | -------- | 780 | Dr | 80 | 4 | 50 | Oh | ----- | ----- | Ss | P? | -- | --- | ----- | S | A |
| 21E1 | ----do---------- | ----do---------- | 4-16-46 | 760 | Dr | 80 | 4 | 52 | Oh | 51 | 29 | Ss | P | C | 20 | ----- | D,S | La, A |
| 21L1 | E. S. Mitchell | Swisher and Swank | -------- | 770 | Dr | 99 | 4 | 99 | S | ----- | ----- | G | Pl | -- | 50 | ----- | D,S | A |
| 29A1 | G. E. Weaver | ----do---------- | 1957 | 780 | Dr | 133 | 4 | 89 | Oh | 90 | 35 | Ss | P | C | 80 | ----- | D,S | Lm |
| 30M1 | B. Brewer | ----do---------- | 1956 | 705 | Dr | 164 | 4 | 98 | Oh | ----- | ----- | Sh | P | C | 30 | ----- | D,S | A |
| 31F1 | B. Dooley | Ruark Well Drilling | J- 6-61 | 750 | Dr | 135 | 6 | 105 | Oh | 120 | 15 | Ss | P | C | 65 | 15 | S | L, A; Dd 35 ft after 2 hr bailing at 15 gpm |
| 32H1 | J. Jenkins | Swisher and Swank | -------- | 790 | Dr | 55 | 4 | 55 | S | ----- | ----- | G | Pl | -- | --- | ----- | D,S | A |
| 33C1 | R. F. Cummings | W. L. Laughlin | 6-20-56 | 795 | Dr | 165 | 6 | 130 | Oh | 130 | 35 | Ss | P | C | --- | 10 | D,S | L, A |
| 17/7W- 1B1 | Wolf Creek Church | M. Crabb | 3-53 | 700 | Dr | 130 | 4 | ----- | Oh | ----- | ----- | Ss | P? | C | 35 | 30 | P | A |
| 6K1 | W. Myers | ----do---------- | 5-54 | 700 | Dr | 108 | 4 | 72 | Oh | 72 | 36 | Ss | P | C | 65 | 15 | D,S | Lm, A; Dd 25 ft bailing at 15 gpm |
| 7D1 | R. Thompson | ----do---------- | 1947 | 700 | Dr | 180 | 4 | 83 | Oh | 136 | 24 | Sh,Ss | P | C | 45 | ----- | D,S | L |
| 7L1 | E. O. Teague | ----do---------- | 1954 | 685 | Dr | 98 | 4 | 70 | Oh | 70 | 28 | Ss | P | C | 20 | ----- | D,S | Lm, A |
| 8D1 | O. W. King | ----do---------- | 4-52 | 675 | Dr | 210 | 4 | 107 | Oh | ----- | ----- | ----- | P? | C | 40 | ----- | Do | Lm (partial) |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/7W- 9N1 | F. V. Grimm | M. Crabb | 4-18-47 | 695 | Dr | 32 | 4 | 32 | Co | 30 | 2 | G | Pl | C | 18 | ----- | D,S | Lm, A |
| 11D1 | R. O. Delp | ----do---------- | 8-50 | 700 | Dr | 110 | 4 | 40 | Oh | 40 | 70 | Ss | P | C | 35 | ----- | D,S | Lm |
| 11E1 | C. Hockett | ----do---------- | 8-56 | 695 | Dr | 120 | 4 | 60 | Oh | ----- | ----- | ----- | P | C | 25 | 10 | S | A |
| 11F1 | ----do---------- | ----do---------- | 8-50 | 700 | Dr | 185 | 4 | 44 | Oh | 65 | ----- | Sh,Ss | P | C | 40 | ----- | S | Lm, A |
| | | | | | | | | | | 85 | ----- | Sh,Ss | P | | | | | |
| 11K1 | H. Delp | ----do---------- | 46 | 700 | Dr | 108 | 4 | 108 | Co | 80 | 26 | G | Pl | C | 40 | ----- | D,S | Lm |
| 11M1 | Friends Union Church | ----do---------- | 5-52 | 695 | Dr | 120 | 4 | 84 | Oh | 82 | 2 | G | Pl | C | 25 | ----- | P | Lm, A |
| | | | | | | | | | | 84 | 36 | Sh | P | | | | | |
| 11N1 | J. W. Lucas | ----do---------- | 4-20-46 | 700 | Dr | 115 | 4 | 82 | Oh | 82 | 23 | Ss | P | C | 40 | ----- | S | Lm |
| 12R1 | A. Myer | ----do---------- | 8-53 | 720 | Dr | 110 | 4 | 65 | ----- | ----- | ----- | ----- | ----- | -- | --- | ----- | Do | Lm |
| 12R2 | ----do---------- | ----do---------- | 8-53 | 710 | Dr | 66 | 4 | 68 | Co | 15 | 51 | S,G | Pl | -- | 15 | ----- | D,S | Lm, A |
| 14D1 | C. Wells | W. L. Laughlin | 11-25-59 | 700 | Dr | 165 | 6 | 148 | Oh | 154 | 11 | Ss | P | C | 89 | 10 | S | L; Dd 15 ft after 5 hr bailing at 10 gpm |
| 15H1 | F. Ingrum | M. Crabb | 1- 8-47 | 700 | Dr | 58 | 4 | 56 | Co | 54 | 2 | G | Pl | C | 35 | ----- | N | Lm, A |
| 15H2 | ----do---------- | ----do---------- | 1946 | 700 | Dr | 108 | 4 | 70 | Oh | ----- | ----- | ----- | ----- | -- | --- | ----- | Do | Lm |
| 16A1 | E. Harrington | ----do---------- | 1-18-47 | 680 | Dr | 218 | 4 | 81 | Oh | 80 | 138 | Sh | ----- | -- | --- | ----- | D,S | Lm |
| 17E1 | G. Crowder | W. L. Laughlin | 2-50 | 582 | Dr | 165 | 6 | 132 | Oh | 145 | 12 | Ls | M | C | 38 | ----- | O | L, A; E, G; Observation well Parke 5, W |
| 17E2 | T. Miller | C. J. Cassidy | 1932 | 570 | Dr | 65 | ----- | 65 | Co | ----- | ----- | G | Pl | -- | --- | ----- | P | A |
| 17E3 | G. Crowder | Warrick and Youngblood | 1958 | 570 | Dr | 97 | 4 | 97 | S | 85 | 12 | G | Pl | -- | --- | ----- | D,S | L, A; Screen 4 ft of 2-in dia |
| 18H1 | E. Tongue | M. Crabb | 1955 | 670 | Dr | 182 | 4 | 182 | Co | 182 | ----- | G | Pl | C | 125 | ----- | D,S | |
| 20N1 | G. W. Crowder | W. L. Laughlin | 3-56 | 540 | Dr | 170 | 7 | 50 | Oh | 140 | 30 | Ls | M | C | 22 | 5 | D,S | L, A; Dd 60 ft after 3 hr bailing at 5 gpm |
| 23A1 | T. E. Manley | Kramer | -------- | 705 | Dr | 154 | 6 | 154 | Co | 150 | 4 | S,Cl | Pl | -- | --- | ----- | D,S | L, A; Well deepened by |
| | | W. L. Laughlin | 10-28-51 | --- | ----- | 201 | 6 | 191 | Oh | 180 | 20 | Ss | P | C | 125 | 5 | D,S | W. L. Laughlin; Dd 17 ft at 5 gpm |
| 23P1 | ----do---------- | ----do---------- | 10-20-51 | 670 | Dr | 342 | 8 | 103 | Oh | ----- | ----- | ----- | ----- | -- | 118 | 1 | N | L |
| 24P1 | H. Tongue | Ruark and Toney | 1948 | 600 | Dr | 313 | 6 | 78 | Oh | 310 | 3 | Ss | M | C | 15 | ----- | N | Lm |
| 28C1 | T. E. Manley | W. L. Laughlin | 3-54 | 600 | Dr | 249 | 8 | 70 | Oh | 229 | 14 | Ss | P | C | 50 | 14 | D,S | L, A; Dd 40 ft after 5 hr pumping at 14 gpm |
| 28D1 | R. L. Hobson | M. Crabb | 11- 1-52 | 530 | Dr | 132 | 4 | 21 | Oh | ----- | ----- | ----- | P | C | F | 10 | D | A |
| 28E1 | ----do---------- | Warrick and Youngblood | -------- | 550 | Dr | 80 | 4 | 10 | Oh | ----- | ----- | Ss | P | -- | 35 | 7 | D | La; Dd 25 ft pumping at 7 gpm |
| 27K1 | State of Indiana | ---------- | 12-29 | 660 | Dr | 152 | ----- | ----- | Oh | ----- | ----- | ----- | P | -- | --- | ----- | Do | Lm |
| 27P1 | ----do---------- | ---------- | 1-30 | 620 | Dr | 115 | ----- | ----- | Oh | ----- | ----- | ----- | P | -- | --- | ----- | Do | L |
| 29G1 | J. Upp | W. L. Laughlin | 7-10-56 | 575 | Dr | 112 | 6 | 51 | Oh | 88 | 24 | Ls | M | C | --- | 8 | D | L |
| 29G4 | R. Harris | Wyman and Brown | 4-14-38 | 582 | Dr | 1,074 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | -- | --- | ----- | Og | Ward Development Co. 1; La |
| 29J1 | G. Pyle | M. Crabb | 1-55 | 550 | Dr | 161 | 4 | 68 | Oh | 100 | 8 | Ss | M | C | 40 | ----- | D,S | Lm, A |
| 29K1 | R. Jordan | W. L. Laughlin | 1948 | 530 | Dr | 58 | 5 | 20 | Oh | ----- | ----- | ----- | ----- | -- | 24 | 20 | P | La (partial), A |
| 29Q1 | ----do---------- | ---------- | -------- | 580 | Dr | 132 | 6 | 45 | Oh | ----- | ----- | ----- | ----- | -- | 84 | ----- | P | A |
| 29Q2 | R. Floyd | W. L. Laughlin | 5- 8-60 | 640 | Dr | 180 | 6 | 45 | Oh | ----- | ----- | Ls | M | -- | 127 | 5 | D | L, A; Dd 50 ft after 1 hr pumping at 5 gpm |
| 30J1 | G. Rainwater | ----do---------- | -------- | 580 | Dr | 130 | ----- | ----- | Oh | ----- | ----- | Ls | M | -- | --- | ----- | S | L, A |
| 30J2 | ----do---------- | ----do---------- | 10-59 | 550 | Dr | 190 | 6 | 18 | Oh | 100 | 25 | Ls | M | C | 55 | 4 | S | La, A; Dd 50 ft after 2 hr pumping at 4 gpm |
| 31E1 | C. Lawson | ----do---------- | 1949 | 660 | Dr | 70 | 8 | 70 | Co | ----- | ----- | ----- | Pl | C | 50 | 3.5 | D | L |
| 31K1 | A. Wolfe | ----do---------- | 10-28-60 | 660 | Dr | 107 | 6 | 84 | Oh | 100 | 7 | Ss | P | C | 60 | 10 | D | L, A; Reported Dd 0 ft after 2 hr bailing at 10 gpm |
| 32K1 | W. Michki | ----do---------- | 6-30-60 | 680 | Dr | 125 | 6 | 50 | Oh | 121 | 4 | Ss | P | -- | 40 | 3 | D | L; Dd 20 ft after 2 hr bailing at 5 gpm |
| 32P1 | L. Hartle | ----do---------- | 11- 1-52 | 640 | Dr | 75 | 6 | 30 | Oh | ----- | ----- | Ss | P | -- | 30 | 25 | D,S | La, A |
| 33B1 | R. Boyd | ----do---------- | 6-37 | 640 | Dr | 98 | 4 | 82 | Oh | 81 | 17 | Ss | P | C | 64 | ----- | D | La, A |
| 33B2 | M. J. Tenbrook | ----do---------- | 9-49 | 650 | Dr | 106 | 8 | 97 | Oh | 100 | 8 | Ss | P | C | 50 | 10 | D | L, A |
| 33E1 | L. Zachery | ----do---------- | 7-25-52 | 655 | Dr | 141 | 6 | 109 | Oh | 109 | 32 | Ss | P | C | 50 | 12 | D,S | La; Dd 4 ft after 6 hr bailing at 12 gpm |
| 33E2 | V. W. Spray | M. Crabb | 7-53 | 655 | Dr | 116 | 4 | 103 | Oh | 103 | 13 | Ss | P | C | 25 | 10 | D | Lm |
| 33E3 | ----do---------- | W. L. Laughlin | 7-10-52 | 660 | Dr | 40 | 8 | 40 | Co | 34 | 6 | G | Pl | U | 34 | .5 | S | La, Dd 4 ft pumping at 0.5 gpm |
| 33L1 | L. Chapman | ----do---------- | 8-54 | 655 | Dr | 103 | 6 | 79 | Oh | 79 | 16 | Ss | P | C | 50 | 3.5 | S | L; Dd 10 ft after 6 hr pumping at 3.5 gpm |
| 34B1 | J. Adams | H. Lister | -------- | 670 | Dr | 84 | ----- | 84 | Co | ----- | ----- | G | Pl | -- | 78 | ----- | D,S | A |
| 35B1 | M. Warren | W. L. Laughlin | -------- | 700 | Dr | 165 | 6 | 101 | Oh | ----- | ----- | ----- | ----- | C | 55 | 10 | S | L, A; Dd 5 ft after 4 hr bailing at 10 gpm |
| 35D1 | V. V. Channoss | ----do---------- | 8-39 | 685 | Dr | 150 | 4 | 74 | Oh | 72 | 78 | Sh | P | C | 30 | ----- | D | La, A |
| 35D2 | ----do---------- | Swisher and Swank | 5-21-58 | 685 | Dr | 100 | 4 | 80 | Oh | 90 | 4 | C | P | C | 25 | 5 | S | La, A; Dd 12 ft pumping at 5 gpm |
| 35E1 | R. Hodson | M. Crabb | 1955 | 690 | Dr | 77 | 4 | 66 | Oh | 66 | 11 | Sh | P | C | 35 | ----- | D | A |
| 35J1 | H. Froman | W. L. Laughlin | 8-26-60 | 695 | Dr | 50 | 8 | 50 | P | 45 | 5 | S,G | Pl | C | 3 | 8 | S | L, Dd 10 ft after 2 hr bailing at 8 gpm |
| 36F1 | B. Roberts | ----do---------- | 8-18-48 | 715 | Dr | 98 | 5 | 98 | Co | 98 | ----- | G | Pl | C | 32 | 20 | D,S | L, A; Dd 12 ft bailing at 20 gpm |
| 17/8W- 1M1 | R. Miller | M. Crabb | -------- | 690 | Dr | 133 | 4 | 133 | Co | 131 | 2 | G | Pl | -- | --- | ----- | D,S | A |
| 7E1 | H. Bugg | ----do---------- | -------- | 565 | Dr | 212 | 4 | 65 | Oh | ----- | ----- | ----- | P | -- | --- | ----- | Do | Lm; Well dry, 11-12-58 |

Table 4.--Record of wells, Parke County, Indiana--Continued

| Well No. | Owner | Driller | Date completed | Altitude (feet) | Type of well | Depth of well below land-surface (feet) | Diameter (inches) | Depth of casing (feet) | Finish | Water-bearing zone: Depth to top (feet) | Water-bearing zone: Thickness (feet) | Water-bearing zone: Material | Water-bearing zone: Geologic age | Water-bearing zone: Ground-water occurrence | Water level (feet) | Yield (gpm) | Use | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17/8W- 7E2 | H. Bagg | M. Crabb | -------- | 580 | Dr | 100 | ----- | ----- | ----- | ----- | ----- | ----- | P | -- | --- | ----- | Do | Lm; Well dry, 11-12-58 |
| 7E3 | ----do---------- | ----do---------- | -------- | 560 | Dr | 130 | ----- | ----- | ----- | ----- | ----- | ----- | P | -- | --- | ----- | Do | Do |
| 7E4 | ----do---------- | ----do---------- | 9-55 | 560 | Dr | 138 | 4 | 70 | ----- | ----- | ----- | ----- | P | -- | --- | ----- | Do | Do |
| 7E5 | ----do---------- | ----do---------- | 9-55 | 585 | Dr | 210 | 4 | 70 | Oh | ----- | ----- | ----- | P | C | 45 | ----- | N | Lm; Well dry, 11-12-58; Reported salt water at 210 ft |
| 7K1 | P. Ray | ----do---------- | 1957 | 580 | Dr | 100 | 4 | 56 | Oh | 50 | 6 | S | Pl | C | 40 | ----- | D | Lm; Well casing pulled back to make well in sand at 56 ft |
| 7L1 | E. Ray | ----do---------- | 8-54 | 580 | Dr | 68 | 4 | 57 | Oh | 57 | 11 | Sh | P | C | 25 | ----- | D,S | Lm, A |
| 7P1 | ----do---------- | ----do---------- | 1946 | 570 | Dr | 55 | 4 | 55 | Oo | 52 | 3 | G | Pl | C | 30 | ----- | D | Lm, A |
| 8N1 | ----do---------- | ----do---------- | 1948 | 520 | Dr | 190 | 4 | 22 | Oh | ----- | ----- | ----- | P | C | 45 | ----- | D,S | A; water at 160 ft |
| 9Q1 | R. R. Ritter | M. L. Laughlin | 6-35 | 650 | Dr | 126 | 4 | 126 | Oo | 123 | 3 | G | Pl | C | 50 | ----- | D,S | L, A |
| 10P1 | H. Swain | M. Crabb | 6-54 | 660 | Dr | 120 | 4 | 101 | Oh | 101 | 19 | Ss | P | C | 25 | ----- | D,S | A |
| 10Q1 | W. Lindley | ----do---------- | 3-14-46 | 660 | Dr | 104 | 4 | 104 | Oo | 102 | 2 | G | Pl | C | 25 | ----- | D,S | Lm, A |
| 10R1 | H. Russell | ----do---------- | 3-46 | 650 | Dr | 89 | 4 | 90 | Oo | 87 | 2 | G | Pl | C | 25 | ----- | D | Lm, A |
| 11G1 | L. S. Madden | ----do---------- | 8-54 | 685 | Dr | 133 | 4 | 133 | Oo | 133 | ----- | G | Pl | C | 20 | ----- | D,S | Lm, A |
| 12D1 | L. White | ----do---------- | 5- 8-47 | 700 | Dr | 142 | 4 | 94 | Oh | ----- | ----- | Sh | P | C | 40 | ----- | D,S | Lm, A |
| 12J1 | W. H. Parr | ----do---------- | 7-54 | 680 | Dr | 130 | 4 | 112 | Oh | 112 | 18 | Sh | P | C | 35 | ----- | D,S | Lm, A |
| 12P1 | H. Veach | ----do---------- | 5-28-49 | 690 | Dr | 75 | 4 | 75 | Oo | 75 | ----- | G | Pl | C | 35 | ----- | D,S | Lm, A |
| 14D1 | H. Russell | ----do---------- | 1-54 | 670 | Dr | 190 | 4 | 161 | Oh | 161 | 29 | Sh | P | C | 45 | ----- | D,S | Lm (partial), A |
| 14F1 | G. Gleason | ----do---------- | 8-21-50 | 675 | Dr | 120 | 4 | 120 | Oo | 120 | ----- | G | Pl | C | 40 | ----- | D,S | Lm, A |
| 14F2 | G. Newman | ----do---------- | 1957 | 670 | Dr | 122 | 4 | 122 | Oo | 118 | 4 | S,G | Pl | C | 35 | ----- | D | Lm (partial), A |
| 14F3 | J. Ray | ----do---------- | 10-14-50 | 665 | Dr | 112 | 4 | 112 | Oo | 112 | ----- | G | Pl | C | 40 | ----- | D | Lm |
| 15E1 | R. Carson | Swisher and Swank | 12-11-56 | 640 | Dr | 120 | 4 | 120 | S | 117 | 3 | G | Pl | C | ---- | ----- | D | Lm |
| 16N1 | C. A. Deal | ---------- | 1896 | 650 | Du | 20 | 10 | ----- | ----- | ----- | ----- | ----- | Pl | -- | --- | ----- | D,S | |
| 16K1 | J. F. Lemon | M. Crabb | 1949 | 620 | Dr | 150 | 4 | 127 | Oh | 124 | 26 | Ss | P | C | 35 | ----- | D | Lm |
| 17H1 | R. Collins | ----do---------- | 1955 | 640 | Dr | 240 | 4 | 130 | Oh | 130 | 110 | Sd-sh | P | C | 40 | ----- | D | A |
| 17K1 | R. Carson | ----do---------- | 5- 1-49 | 630 | Dr | 238 | 4 | 146 | Oh | 146 | 92 | Sh | P | C | 55 | ----- | D,S | |
| 18K1 | E. Ray | ----do---------- | 1948 | 600 | Dr | 150 | 4 | ----- | Oh | 145 | 5 | Sh | P | -- | --- | ----- | D | |
| 18L1 | E. Faust | W. L. Laughlin | 3-47 | 550 | Dr | 138 | 6 | 97 | S | 97 | 41 | G | Pl | C | 86 | ----- | D,S | A; Screen, 3 ft of 2-in dia, no. 60 gauze |
| | | | | | | | 5 | 138 | | | | | | | | ----- | | |
| 18M1 | P. Rodenbaugh | M. Crabb | 1956 | 560 | Dr | 130 | 4 | 130 | Oo | ----- | ----- | S,G | Pl | -- | --- | ----- | D | |
| 18N1 | R. Durham | ----do---------- | 5-21-48 | 555 | Dr | 154 | 4 | 154 | Oo | ----- | ----- | S,G | Pl | -- | 30 | ----- | D | |
| 18S2 | O. Miller | ----do---------- | -------- | 560 | Dr | 154 | 4 | 154 | Oo | ----- | ----- | S | Pl | -- | --- | ----- | D | A |
| 19R1 | R. Wood | ----do---------- | 3-56 | 525 | Dr | 35 | 4 | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | T | Lm |
| 19R2 | ----do---------- | ----do---------- | 3-27-56 | 510 | Dr | 31 | 4 | ----- | ----- | ----- | ----- | ----- | ---- | -- | --- | ----- | T | Lm |
| 19R3 | ----do---------- | ----do---------- | 3-27-56 | 495 | Dr | 65 | 4 | 65 | Oo | 15 | 50 | S,G | Pl | U | 15 | 30 | D,S | A |
| 21G1 | G. Cory, Jr. | ----do---------- | 3- 1-48 | 630 | Dr | 120 | 4 | 89 | Oh | 88 | 32 | Sh | P | C | 30 | ----- | D,S | Lm, A |
| 23M1 | P. Leonard | ----do---------- | 3- 1-48 | 670 | Dr | 185 | 4 | 107 | Oh | ----- | ----- | Ss | P | -- | 110 | ----- | D | Lm |
| 27P1 | M. Newnum | W. L. Laughlin | 10-12-60 | 660 | Dr | 130 | 6 | 95 | Oh | 120 | 10 | Sh-ss | P | C | 70 | 15 | D | L, A; Dd 4 ft after 8 hr bailing at 15 gpm |
| 32J1 | A. J. Allen | M. Crabb | 1950 | 640 | Dr | 92 | 4 | 64 | Oh | 64 | 28 | Sh | P | C | 25 | ----- | D | Lm, A |
| 32M1 | R. Adams | W. L. Laughlin | 9-47 | 480 | Dr | 33 | 6 | 33 | S | 4 | 28 | S,G | Pl | U | 4 | 10 | N | La, A; Dd .7 ft pumping at 10 gpm |
| 34H1 | R. J. McElroy | D. Chavis | -------- | 670 | Dr | 200 | 6 | 115 | Oh | 115 | 85 | Ss,Sh | P | -- | --- | ----- | D | A |
| 35B1 | W. C. Brook | W. L. Laughlin | 7-48 | 510 | Dr | 138 | 5 | 31 | Oh | 113 | 23 | Ls | M | C | 8 | 20 | P | L; Dd 22 ft bailing at 20 gpm |
| 17/9W- 1P1 | P. Ray, Jr. | M. Crabb | 1948 | 515 | Dr | 47 | 3 | 47 | S | 21 | 26 | G | Pl | -- | --- | ----- | D,S | Lm, A |
| 2F1 | Mr. Jackson | Swisher and Swank | 1957 | 500 | Dr | 108 | 4 | 40 | Oh | 98 | 10 | Ss | P | C | 38 | 4 | D | Lm |
| 2F2 | C. Laws | M. Crabb | 1946 | 500 | Dr | 63 | 4 | 47 | Oh | 47 | 16 | Sh | P | C | 25 | ----- | D | Lm |
| 2F3 | C. Tibbett | Reynolds Brothers | 8-24-54 | 500 | Dr | 107 | ----- | 46 | Oh | 78 | 11 | Ls | P | C | 28 | 1.5 | D | L |
| 2F4 | V. Watts | W. L. Laughlin | 7-54 | 515 | Dr | 65 | 6 | 56 | Oh | 56 | 9 | Sh | P | C | 35 | 7 | D | La; Dd 6 ft after 4 hr bailing at 7 gpm |
| 3R1 | C. Lydick | ----do---------- | 8-10-56 | 490 | Dr | 38 | 6 | 38 | P | 35 | 3 | G | Pl | -- | --- | 20 | D | La |
| 12J1 | M. M. Thompson | M. Crabb | 2- 4-48 | 555 | Dr | 176 | 4 | 89 | Oh | ----- | ----- | ----- | P | C | 50 | ----- | N | Lm; Reported salt water |
| 12J2 | ----do---------- | W. L. Laughlin | 11-58 | 555 | Dr | 116 | 6 | 89 | Oh | 95 | 15 | Ss | P | C | 70 | 5 | D | L, A; Dd 3 ft after 3 hr bailing at 5 gpm |
| 12P1 | R. F. Scott | ----do---------- | 7-36 | 580 | Dr | 121 | 4 | 121 | S | 97 | 24 | S,G | Pl | U | 97 | ----- | Do | L; Screen, 3 ft of 2-in dia, no. 80 gauze |
| 13H1 | D. Doucrter | M. Crabb | 1952 | 560 | Dr | 144 | 4 | 141 | Oo | 110 | 34 | G | Pl | U | 110 | ----- | D | Lm, A |
| 13J1 | Mr. Dowers | ----do---------- | 1955 | 560 | Dr | 121 | 4 | 121 | Oo | 100 | 21 | G | Pl | U | 100 | ----- | D | Lm, A |

Table 5.--Selected well logs, Parke County, Indiana

Remarks: T. D., total depth in feet, complete log not given; W. B., water bearing

Well 14/6W-1A1

Type of record: Driller's log. Altitude: About 805 feet.

| | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 15 | 15 | |
| Softpan | 5 | 20 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, soft | 12 | 32 | |
| Sandstone | 18 | 50 | W. B. |
| Shale, light-gray | 3 | 53 | |

Well 14/6W-3Q1

Type of record: Driller's log. Altitude: About 730 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 20 | 20 | |
| Pan | 41 | 61 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, soft, yellow | 10 | 71 | W. B. |
| Shale, soft, dark-gray | 4 | 75 | |

Well 14/6W-5F1

Type of record: Driller's log. Altitude: About 690 feet.

| | | | |
|---|---|---|---|
| Dug well | 41 | 41 | |
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Hardpan | 33 | 74 | |
| Softpan | 27 | 101 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, sandy, gray | 24 | 125 | |
| Sandstone | 23 | 148 | W. B. |
| Coal | 1 | 149 | |

Well 14/6W-5Q1

Type of record: Driller's log. Altitude: About 580 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface, sandy | 10 | 10 | |
| Sand and gravel, yellow | 20 | 30 | W. B. |
| Sand and gravel, gray | 12 | 42 | W. B. |

Table 5.--Selected well logs, Parke County--Continued

Well 14/6W-7G1

Type of record: Driller's log. Altitude: About 590 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Dug well---------- | 21 | 21 | |
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Softpan, gravelly---------- | 21 | 42 | |
| Sand and gravel---------- | 9 | 51 | W. B. |

Well 14/6W-7Q1

Type of record: Driller's log. Altitude: About 570 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface---------- | 4 | 4 | |
| Sand and gravel---------- | 46 | 50 | |
| Gravel, large---------- | 3 | 53 | |
| Gravel, pea-sized---------- | 2 | 55 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, sandy, gray---------- | -- | 55 | |

Well 14/6W-8D1

Type of record: Driller's log. Altitude: About 610 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface---------- | 20 | 20 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, clay bands---------- | 19 | 39 | |
| Sandstone, brown---------- | 21 | 60 | W. B. |
| Sandstone, hard---------- | 5 | 65 | |

Well 14/6W-8H1

Type of record: Driller's log. Altitude: About 595 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface---------- | 20 | 20 | |
| Pan, sandy---------- | 33 | 53 | |
| Sand and gravel---------- | 5 | 58 | W. B. |

Well 14/6W-10C1

Type of record: Driller's log. Altitude: About 730 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface---------- | 20 | 20 | |
| Pan---------- | 20 | 40 | |

Table 5.--Selected well logs, Parke County--Continued

Well 14/6W-10C1--Continued

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, light | 6 | 46 | |
| Sandstone | 2 | 48 | |
| Shale, soft, light | 32 | 80 | |
| Shale, gray | 52 | 132 | |
| Sandstone | 7 | 139 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone, hard | 112 | 251 | W. B. |

Well 14/6W-11M1

Type of record: Driller's log. Altitude: About 755 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 18 | 18 | |
| Hardpan | 25 | 43 | |
| Softpan | 17 | 60 | |
| Hardpan | 28 | 88 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, soft, gray | 34 | 122 | |
| Shale, sandy, gray | 22 | 144 | |
| Sandstone | 33.5 | 177.5 | W. B. |

Well 14/6W-12H1

Type of record: Driller's log. Altitude: About 790 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 35 | 35 | |
| Pan, sandy | 15 | 50 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone | 33 | 83 | W. B. |

Well 14/6W-16B1

Type of record: Driller's log. Altitude: About 615 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 15 | 15 | |
| Pan, sandy | 10 | 25 | |
| Sand and gravel | 7 | 32 | W. B. |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone | 20 | 52 | |

Table 5.--Selected well logs, Parke County--Continued

Well 14/6W-17D1

Type of record: Driller's log. Altitude: About 650 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 30 | 30 | |
| Pan | 30 | 60 | |
| Sand | .5 | 60.5 | |
| Pan | 14.5 | 75 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, shelly | 14 | 89 | |
| Sandstone, soft | 1 | 90 | |
| Sandstone | 13 | 103 | |
| Sandstone, soft | 1 | 104 | |

Well 14/6W-19P1

Type of record: Driller's log. Altitude: About 645 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 20 | 20 | |
| Hardpan | 10 | 30 | |
| Sand | 52 | 82 | W. B. |
| Gravel | 5 | 87 | W. B. |

Well 14/6W-20B1

Type of record: Driller's log. Altitude: About 660 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 16 | 16 | |
| Pan | 13 | 29 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone | 36 | 65 | W. B. |

Well 14/6W-21B1

Type of record: Driller's log. Altitude: About 720 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface and clay | 22 | 22 | |
| Softpan, yellow | 10 | 32 | |
| Hardpan, gray | 10 | 42 | |
| Softpan, yellow | 5 | 47 | |
| Wash, gray | 10 | 57 | |
| Sand, gray | 8 | 65 | |
| Gravel, sandy, dirty, gray | 3 | 68 | W. B. |
| Hardpan | 2 | 70 | |

Table 5.--Selected well logs, Parke County--Continued

Well 14/6W-21B1--Continued

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, light | 10 | 80 | |
| Shale, blue | 12 | 92 | |
| Shale, dark | 28 | 120 | |
| Shale, blue | 28 | 148 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone | 10 | 158 | |

Well 14/6W-22P1

Type of record: Driller's log. Altitude: About 740 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 17 | 17 | |
| Hardpan, gray | 41 | 58 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Slate | 3 | 61 | |
| Coal, trace | -- | 61 | |
| Fire clay | 3 | 64 | |
| Slate, blue | 16 | 80 | |
| Shale, dark | 10 | 90 | |
| Shale, sandy, dark | 14 | 104 | W. B. |
| Shale, sandy, light | 4 | 108 | |
| Sandstone, pasty, gray | 23 | 131 | |
| Sandstone, white | 6 | 137 | |
| Sandstone, blue | 4 | 141 | |
| Shale, dark-blue | 3 | 144 | |

Well 14/6W-27D1

Type of record: Driller's log. Altitude: About 740 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 15 | 15 | |
| Softpan, yellow | 7 | 22 | |
| Hardpan, gray | 10 | 32 | |
| Softpan | 15 | 47 | |
| Wash, yellow | 3 | 50 | |
| Hardpan, gray | 1 | 51 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| White top | 6 | 57 | |
| Shale, sandy, blue | 3 | 60 | |
| Shale, sandy, light | 3 | 63 | |
| Shale, dark-blue | 42 | 105 | |
| Shale, black | 12 | 117 | |

Table 5.--Selected well logs, Parke County--Continued

Well 14/6W-27D1--Continued

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, blue | 18 | 135 | |
| Shale, light | 10 | 145 | |
| Sandstone, gray | 8 | 153 | |
| Sandstone, white | 6 | 159 | W. B. |
| Shale, blue | 30 | 189 | |
| Shale, sandy, blue | 24 | 213 | W. B. |

Well 14/6W-30H1

Type of record: Driller's log. Altitude: About 685 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 18 | 18 | |
| Limestone | 1 | 19 | |
| Shale, soft, light | 13 | 32 | |
| Slate, hard | 56 | 88 | |
| Coal | 2 | 90 | |
| Clay | 2 | 92 | |
| Clay rock | 10 | 102 | |

Well 14/6W-32N1

Type of record: Driller's log. Altitude: About 690 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 14 | 14 | |
| Softpan | 8 | 22 | |
| Hardpan | 16 | 38 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, gray | 3 | 41 | |
| Coal | 3 | 44 | |
| Clay | 8 | 52 | |
| Shale, gray | 6 | 58 | |
| Shale, sandy, gray | 6 | 64 | |
| Coal | 2 | 66 | |
| Clay | 1 | 67 | |
| Shale, sandy, gray | 2 | 69 | |
| White top | 5 | 74 | |
| Coal | 1 | 75 | |
| Clay | 2 | 77 | |
| Shale, sandy, gray | 9 | 86 | |
| Coal | 1 | 87 | |
| Shale, sandy, gray | 23 | 110 | |
| Sandstone | 51 | 161 | |

Table 5.--Selected well logs, Parke County--Continued

Well 14/6W-33A1

Type of record: Driller's log. Altitude: About 720 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 19 | 19 | |
| Hardpan | 11 | 30 | |
| Pan, sandy | 3 | 33 | W. B. |
| Pan, sandy | 17 | 50 | |
| Quicksand | 5 | 55 | W. B. |
| Hardpan | 5 | 60 | |
| Softpan | 25 | 85 | |
| Hardpan | 18 | 103 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, dark-gray | 32 | 135 | |
| Shale, light-gray | 10 | 145 | |
| Sandstone | 25 | 170 | |
| Shale, dark-gray | 5 | 175 | |
| Sandstone and shale | 17 | 192 | |
| Shale, dark-gray | 8 | 200 | |
| Sandstone | 4 | 204 | |
| Mississippian? System: | | | |
| Meramec? Series: | | | |
| Limestone | 2 | 206 | |

Well 14/6W-34N1

Type of record: Driller's log. Altitude: About 720 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 10 | 10 | |
| Pan | 15 | 25 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, dark-gray | 10 | 35 | |
| Clay | 10 | 45 | |
| Shale, light-gray | 15 | 60 | |
| Sandstone | 31.5 | 91.5 | |
| Shale, gray | 1.5 | 93 | |
| Sandstone | 35 | 128 | W. B. |
| Shale, gray | .5 | 128.5 | |

Well 14/6W-35R2

Type of record: Driller's log. Altitude: About 765 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 14 | 14 | |
| Pan, sandy | 20 | 34 | |
| Pan | 4 | 38 | |

Table 5.--Selected well logs, Parke County--Continued

Well 14/6W-35R2--Continued

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Pan, sandy | 5 | 43 | |
| Sand | 2 | 45 | |
| Pan, sandy | 4 | 49 | |
| Sand | 13 | 62 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, dark-gray | 28 | 90 | |
| Shale, gray | 12 | 102 | |
| Limestone | 2 | 104 | |
| Shale, sandy, gray | 8 | 112 | |
| Sandstone | 21 | 133 | |
| Shale, dark-gray | 1.5 | 134.5 | |
| Sandstone | 10.5 | 145 | W. B. |

Well 14/6W-36C1

Type of record: Driller's log. Altitude: About 800 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 19 | 19 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, dark-gray | 6 | 25 | |
| Sandstone | 28 | 53 | W. B. |
| Shale, dark-gray | 17 | 70 | |
| Shale, sandy | 8 | 78 | |
| Shale, dark-gray | 7 | 85 | |

Well 14/6W-36Q1

Type of record: Driller's log. Altitude: About 770 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 15 | 15 | |
| Softpan | 65.5 | 80.5 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone | 9.5 | 90 | |
| Shale, dark-gray | 9 | 99 | |
| Shale, sandy, light-gray | 11 | 110 | |
| Shale, dark-gray | 8 | 118 | |
| Sandstone | 2 | 120 | |
| Shale, dark-gray | 19 | 139 | |
| Coal and jack | 1 | 140 | |

Table 5.--Selected well logs, Parke County--Continued

Well 14/7W-5R1

Type of record: Driller's log. Altitude: About 565 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Well pit---------- | 4 | 4 | |
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface---------- | 3 | 7 | |
| Pan---------- | 15 | 22 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, gray---------- | 8 | 30 | |
| Coal---------- | 1 | 31 | |
| Shale, sandy, gray---------- | 1 | 32 | |
| Sandstone---------- | 48 | 80 | |
| Shale, sandy, gray---------- | 20 | 100 | |
| Sandstone---------- | 25 | 125 | W. B. |

Well 14/7W-6D2

Type of record: Driller's log. Altitude: About 550 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand, yellow---------- | 10 | 10 | |
| Gravel and sand---------- | 15 | 25 | |
| Gravel and clay---------- | 22 | 47 | |
| Gravel, coarse---------- | 3 | 50 | W. B. |

Well 14/7W-11Q1

Type of record: Driller's log. Altitude: About 570 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface---------- | 4 | 4 | |
| Sand and gravel---------- | 36 | 40 | W. B. |
| Drift, sandy---------- | 7 | 47 | |

Well 14/7W-14Q1

Type of record: Driller's log. Altitude: About 560 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface---------- | 10 | 10 | |
| Gravel---------- | 5 | 15 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, hard---------- | 5 | 20 | |
| Shale, blue---------- | 25 | 45 | |
| Shale---------- | 30 | 75 | |
| Limestone, soft---------- | 35 | 110 | |
| Shale, blue---------- | 20 | 130 | |
| Limestone, soft---------- | 15 | 145 | |

Well 14/7W-14Q1--Continued

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, sandy, hard | 50 | 195 | |
| Sandstone | 15 | 210 | W. B. |
| Shale, sandy | 25 | 235 | |
| Limestone, soft | 5 | 240 | |
| Shale, sandy, gray | 40 | 280 | |
| Shale, muddy, blue | 90 | 370 | |
| Sandstone | 12 | 382 | T. D. 1,315 ft |

Well 14/7W-18P1

Type of record: Driller's log. Altitude: About 630 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 14 | 14 | |
| Pan, sandy | 4 | 18 | |
| Hardpan | 14 | 32 | |
| Softpan | 7 | 39 | |
| Hardpan | 11 | 50 | |
| Softpan | 5 | 55 | |
| Sand and gravel | 18 | 73 | W. B. |

Well 14/7W-20D1

Type of record: Driller's log. Altitude: About 630 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 15 | 15 | |
| Hardpan | 16 | 31 | |
| Sand | 2 | 33 | |
| Hardpan | 47 | 80 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, dark-gray | 12 | 92 | |
| Coal | .5 | 92.5 | |
| Clay | 2.5 | 95 | |
| Shale, sandy, light-gray | 7 | 102 | |
| Shale, dark-gray | 13 | 115 | |
| Sandstone | 7 | 122 | |
| Shale, light-gray | 4 | 126 | |
| Shale, sandy | 4 | 130 | |
| Shale, dark-gray | 10 | 140 | |
| Sandstone | 8 | 148 | |
| Shale, dark-gray | 2 | 150 | |
| Coal | 4 | 154 | |
| Sandstone | 9 | 163 | |
| Shale, light-gray | 2 | 165 | |

Table 5.--Selected well logs, Parke County--Continued

Well 14/7W-22D3

Type of record: Driller's log. Altitude: About 550 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 12 | 12 | |
| Pan, sandy | 13 | 25 | |
| Drift | 23 | 48 | |
| Sand | 10 | 58 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone | 6 | 64 | W. B. |

Well 14/7W-22E2

Type of record: Driller's log. Altitude: About 560 feet.

| | | | |
|---|---|---|---|
| Ground level to basement floor | 10 | 10 | |
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 5 | 15 | |
| Sand | 10 | 25 | |
| Pan | 15 | 40 | |
| Sand | 14 | 54 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone | 42 | 96 | W. B. |

Well 14/7W-22K1

Type of record: Driller's log. Altitude: About 610 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 15 | 15 | |
| Pan | 65 | 80 | |
| Sand | 8 | 88 | W. B. |
| Sand and gravel | 2 | 90 | W. B. |

Well 14/7W-22M1

Type of record: Driller's log. Altitude: About 565 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface, sandy | 15 | 15 | |
| Pan, sandy | 15 | 30 | |
| Drift | 7 | 37 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone | 47 | 84 | W. B. |

Table 5.--Selected well logs, Parke County--Continued

Well 14/7W-24P1

Type of record: Driller's log. Altitude: About 665 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 26 | 26 | |
| Hardpan, gray | 9 | 35 | |
| Sand, blue | 126 | 161 | W. B. |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale | 12 | 173 | |
| Sandstone | 61 | 234 | W. B. |
| Shale | 3 | 237 | |

Well 14/7W-24R1

Type of record: Driller's log. Altitude: About 660 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 12 | 12 | |
| Softpan | 78 | 90 | |
| Sand | 20 | 110 | W. B. |

Well 14/7W-28L1

Type of record: Driller's log. Altitude: About 560 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 8 | 8 | |
| Sand, dirty, dark | 22 | 30 | |
| Softpan, yellow, and wash | 20 | 50 | |
| Softpan, dark | 10 | 60 | |
| Hardpan, gray | 3 | 63 | |
| Wash, yellow | 9 | 72 | |
| Sand and gravel, dirty, yellow | 4 | 76 | |
| Softpan, yellow | 4 | 80 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale sandy, blue | 5 | 85 | |
| Shale, sandy, gray | 17 | 102 | |
| Sandstone, brown | 2 | 104 | |
| Shale, sandy, blue | 2 | 106 | |
| Sandstone, brown | 9 | 115 | |
| Sandstone, blue | 15 | 130 | W. B. |

Well 14/7W-32E1

Type of record: Driller's log. Altitude: About 555 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface and sand | 45 | 45 | |
| Hardpan | 32 | 77 | |

Table 5.--Selected well logs, Parke County--Continued

Well 14/7W-32E1--Continued

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand, fine | 11 | 88 | W. B. |
| Sandstone | 6 | 94 | |
| Shale, gray | -- | 94 | |

Well 14/7W-35Q1

Type of record: Driller's log. Altitude: About 650 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 15 | 15 | |
| Pan | 37 | 52 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Coal | 1 | 53 | |
| Clay | 6 | 59 | |
| Shale, sandy, gray | 12 | 71 | |
| Coal | 3 | 74 | |
| Clay | 1.5 | 75.5 | |
| Shale, sandy, gray | 16.5 | 92 | |
| Coal | .5 | 92.5 | |
| Clay | 1.5 | 94 | |
| Shale, sandy, gray | 10 | 104 | |
| Coal | .5 | 104.5 | |
| Clay | .5 | 105 | |
| Shale, sandy, gray | 5 | 110 | |
| Sandstone | 20 | 130 | |
| Shale, sandy, gray | 2 | 132 | |
| Sandstone | 23 | 155 | |

Well 14/7W-36L2

Type of record: Driller's log. Altitude: About 625 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 18 | 18 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, gray | 4 | 22 | |
| Coal | 1 | 23 | |
| Clay | 4 | 27 | |
| Shale, gray | 5 | 32 | |
| Coal | 2 | 34 | |
| Clay | 6 | 40 | |
| Sandstone | 80 | 120 | W. B. |

Table 5.--Selected well logs, Parke County--Continued

Well 14/8W-5G1

Type of record: Driller's log. Altitude: About 510 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Glacial drift | 19 | 19 | |
| Pennsylvanian System: | | | |
| Middle Pennsylvanian Series: | | | |
| Limestone, soft | 20 | 39 | |
| Slate, black | 7 | 46 | |
| Limestone, black | 2 | 48 | |
| Slate, black, and streaks of fire clay | 17 | 65 | |

Well 14/8W-6C1

Type of record: Driller's log. Altitude: About 560 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 15 | 15 | |
| Hardpan | 49 | 64 | |
| Pennsylvanian System: | | | |
| Middle Pennsylvanian Series: | | | |
| Limestone | 14 | 78 | W. B. |
| Slate | 1 | 79 | |
| Coal | 4 | 83 | |
| Fire clay and shale | 7 | 90 | |

Well 14/8W-9F1

Type of record: Driller's log. Altitude: About 615 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 14 | 14 | |
| Softpan | 8 | 22 | |
| Sand, soft, dirty | 1 | 23 | |
| Hardpan, gray | 32 | 55 | |
| Pennsylvanian System: | | | |
| Middle Pennsylvanian Series: | | | |
| Sandstone, brown | 10 | 65 | Dry |
| Sandstone, gray | 50 | 115 | Do |
| Shale, gray | 8 | 123 | |
| Slate, black | 2 | 125 | |
| Coal | 2 | 127 | W. B. |
| Fire clay | 2 | 129 | |
| Shale, dark-blue | 8 | 137 | |
| Coal | 1 | 138 | W. B. |
| Fire clay, hard | 1 | 139 | |
| Clay rock, sandy, light | 3 | 142 | |
| Shale, gray | 4 | 146 | |

Table 5.--Selected well logs, Parke County--Continued

Well 14/8W-14J1

Type of record: Driller's log. Altitude: About 530 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand, yellow | 16 | 16 | |
| Clay, blue | 24 | 40 | |
| Gravel and sand | 4 | 44 | W. B. |

Well 14/8W-18P1

Type of record: Driller's log. Altitude: About 620 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface and yellow clay | 18 | 18 | |
| Hardpan, gray | 52 | 70 | |
| Sand, fine, gray | 20 | 90 | W. B. |
| Hardpan, gray | 28 | 118 | |
| Sand, fine, gray | 2 | 120 | |
| Hardpan, gray | 41 | 161 | Gas in 0.5 ft cavity at 160 ft |
| Quicksand | 4 | 165 | W. B. |
| Gravel and fine sand | 14 | 179 | W. B. |
| Quicksand | 9 | 188 | W. B. |
| Sand, coarse, and small gravel; gray | 4.5 | 192.5 | W. B. |
| Pennsylvanian System: | | | |
| Middle Pennsylvanian Series: | | | |
| Limestone, gray | 3.5 | 196 | |
| Slate, black | 1 | 197 | |
| Limestone, sandy, gray | 8 | 205 | |
| Fire clay, white | -- | 205 | |

Well 14/8W-18R1

Type of record: Driller's log. Altitude: About 610 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 24 | 24 | |
| Hardpan | 19 | 43 | |
| Gravel and hardpan | 3 | 46 | |
| Drift, green | 16 | 62 | |
| Hardpan | 83 | 145 | |
| Sand and gravel | 5 | 150 | W. B. |
| Quicksand | 20 | 170 | W. B. |
| Gravel | 10 | 180 | W. B. |

Well 14/8W-21A1

Type of record: Driller's log. Altitude: About 540 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 17 | 17 | |
| Sandstone | 18 | 35 | |
| Coal and fire clay | 5 | 40 | |
| Shale, light | 21 | 61 | |
| Sandstone | 3 | 64 | |
| Shale, blue | 8 | 72 | |
| Slate, black | 4 | 76 | |
| Shale, light | 6 | 82 | |

Well 14/8W-22L1

Type of record: Driller's log. Altitude: About 620 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand and gravel, red | 60 | 60 | |
| Pennsylvanian System: | | | |
| Middle Pennsylvanian Series: | | | |
| Shale | 5 | 65 | |
| Shale, dark | 10 | 75 | |
| Shale, sandy, light | 26 | 101 | |
| Mine opening | 3 | 104 | |
| Shale, light | 36 | 140 | |
| Shale, dark | 10 | 150 | |
| Shale, light | 8 | 158 | |
| Shale, gray | 37 | 195 | |
| Shale, dark | 11 | 206 | |
| Sandstone | 9 | 215 | |
| Lower? Pennsylvanian Series: | | | |
| Shale, dark | 20 | 235 | |
| Coal | 4 | 239 | |
| Fire clay | 3 | 242 | |
| Sandstone | 12 | 254 | |
| Shale, light | 1 | 255 | |

Well 14/8W-23R1

Type of record: Driller's log. Altitude: About 570 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Top soil | 2 | 2 | |
| Sand, yellow, and clay | 20 | 22 | |
| Clay, sandy, blue | 48 | 70 | |
| Sand, yellow, with coal; muddy | 20 | 90 | |
| Hardpan, shaly, blue | 5 | 95 | |
| Gravel, fine, sandy, yellow | 15 | 110 | W. B. |
| Gravel, yellow | 8 | 118 | W. B. |

Table 5.--Selected well logs, Parke County--Continued

Well 14/8W-26A1

Type of record: Driller's log. Altitude: About 550 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand and clay---------- | 18 | 18 | |
| Clay, blue, and sand---------- | 45 | 63 | |
| Clay, rocky, blue---------- | 16 | 79 | |
| Gravel, coarse, gray---------- | 1 | 80 | W. B. |

Well 14/8W-30P1

Type of record: Driller's log. Altitude: About 605 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, soft, yellow---------- | 30 | 30 | |
| Sand, dirty---------- | 2 | 32 | |
| Hardpan---------- | 43 | 75 | |
| Clay, blue---------- | 6 | 81 | |
| Hardpan---------- | 41 | 122 | |
| Clay, hard, yellow---------- | 15 | 137 | |
| Hardpan---------- | 20 | 157 | |
| Mud, hard, blue, and sand------- | 8 | 165 | |
| Sand, dirty, and mud---------- | 5 | 170 | |
| Pennsylvanian System: | | | |
| Middle? Pennsylvanian Series: | | | |
| Shale, light---------- | 23 | 193 | |
| Shale, dark---------- | 8 | 201 | |
| Sandstone and shale---------- | 32 | 233 | |
| Lower? Pennsylvanian Series: | | | |
| Coal---------- | 1 | 234 | |
| Fire clay---------- | 2 | 236 | |
| Shale, light---------- | 6 | 242 | |
| Coal---------- | 3 | 245 | |
| Sandstone---------- | 25 | 270 | |

Well 14/8W-30R1

Type of record: Driller's log. Altitude: About 595 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface and clay---------- | 20 | 20 | |
| Hardpan---------- | 35 | 55 | |
| Clay, hard, blue---------- | 60 | 115 | |
| Mud, thick---------- | 12 | 127 | |
| Gravel, fine---------- | 38 | 165 | W. B. |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale---------- | 4 | 169 | |

Table 5.--Selected well logs, Parke County--Continued

Well 14/8W-31P1

Type of record: Driller's log. Altitude: About 600 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface, hard, and clay | 20 | 20 | |
| Hardpan and gravel | 85 | 105 | |
| Quicksand | 13 | 118 | W. B. |
| Gravel, coarse | 3 | 121 | W. B. |

Well 14/8W-33L1

Type of record: Driller's log. Altitude: About 600 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 24 | 24 | |
| Hardpan | 23 | 47 | |
| Sand and gravel | 14 | 61 | W. B. |
| Pennsylvanian System: | | | |
| Middle Pennsylvanian Series: | | | |
| Shale | 21 | 82 | |
| Sandstone | 7 | 89 | |
| Lower? Pennsylvanian Series: | | | |
| Shale, blue | 25 | 114 | |
| Slate, black | 2 | 116 | |
| Rock, black | 4 | 120 | Limestone? |
| Shale, light | 6 | 126 | |
| Sandstone | 2 | 128 | |
| Shale, light | 12 | 140 | |
| Sandstone | 10 | 150 | W. B. |

Well 14/8W-33Q1

Type of record: Driller's log. Altitude: About 600 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 16 | 16 | |
| Sand, yellow | 6 | 22 | |
| Hardpan, yellow | 16 | 38 | |
| Sand and gravel, dirty | 2 | 40 | W. B. |
| Hardpan, white | 34 | 74 | |
| Sand, very fine, dirty, yellow | 16 | 90 | W. B. |

Well 14/8W-34R1

Type of record: Driller's log. Altitude: About 540 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand, silty | 33 | 33 | W. B. 16 to 90 ft |

Table 5.--Selected well logs, Parke County--Continued

Well 14/8W-34R1--Continued

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Quicksand | 37 | 70 | |
| Rock shelf | 2 | 72 | Boulder? |
| Gravel | 18 | 90 | |

Well 14/8W-35C2

Type of record: Driller's log. Altitude: About 530 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand and small gravel | 95 | 95 | |
| Gravel | 18 | 113 | |
| Pennsylvanian? System: | | | |
| Lower Pennsylvanian Series: | | | |
| Limestone | -- | 113 | |

Well 14/8W-36C1

Type of record: Driller's log. Altitude: About 527 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Soil | 4 | 4 | |
| Sand and gravel | 76 | 80 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, blue | 39 | 119 | |
| Limestone | 11 | 130 | |
| Coal and dark shale | 5 | 135 | |
| Shale, dark | 25 | 160 | |
| Shale | 25 | 185 | |
| Shale, dark | 15 | 200 | |
| Sandstone and shale | 10 | 210 | |
| Sandstone | 30 | 240 | W. B. |
| Shale, dark | 30 | 270 | T. D. 1,362 ft |

Well 14/9W-1R1

Type of record: Driller's log. Altitude: About 525 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Hardpan | 30 | 30 | |
| Sand and gravel | 1 | 31 | |
| Hardpan | 7 | 38 | |
| Sand and gravel | 2 | 40 | |
| Hardpan | 20 | 60 | |
| Gravel | 1 | 61 | |
| Hardpan | 9 | 70 | |
| Gravel | 2 | 72 | W. B. |

Table 5.--Selected well logs, Parke County--Continued

Well 14/9W-13Q1

Type of record: Driller's log. Altitude: About 665 feet.

| | Thickness (feet) | Depth (feet) | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Soil and yellow clay | 14 | 14 | |
| Hardpan, blue | 96 | 110 | |
| Clay, blue, and streaks of shale | 37 | 147 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Fire clay, caving | 13 | 160 | |
| Limestone, blue | 3 | 163 | |
| Slate, black | 22 | 185 | |
| Shale, blue | 30 | 215 | |
| Coal | 7 | 222 | |
| Fire clay, white | 10 | 232 | |
| Limestone, coarse, white | 5 | 237 | W. B. |
| Limestone, sandy, gray | 13 | 250 | |

Well 14/9W-14K1

Type of record: Driller's log. Altitude: About 530 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 20 | 20 | |
| Hardpan, brown | 45 | 65 | |
| Hardpan, green | 30 | 95 | |
| Gravel, pea-sized | 10 | 105 | W. B. |
| Sand, fine | -- | 105 | W. B. |

Well 14/9W-23A1

Type of record: Driller's log. Altitude: About 525 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand and gravel | 38 | 38 | |
| Mud, blue | 15 | 53 | |
| Sand and gravel | 34 | 87 | W. B. |

Well 14/9W-23R1

Type of record: Driller's log. Altitude: About 530 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand and gravel | 45 | 45 | |
| Mud, soft, blue | 9 | 54 | |
| Sand and gravel | 33 | 87 | W. B. |

Table 5.--Selected well logs, Parke County--Continued

Well 14/9W-24D1

Type of record: Driller's log. Altitude: About 545 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Pit | 15 | 15 | |
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand | 23 | 38 | |
| Sand and gravel | 4 | 42 | W. B. |
| Hardpan | 34 | 76 | |
| Pennsylvanian? System: | | | |
| Middle? Pennsylvanian? System: | | | |
| Rock | -- | 76 | |

Well 14/9W-24L4

Type of record: Driller's log. Altitude: About 610 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 18 | 18 | |
| Hardpan | 139 | 157 | |
| Sand, coarse | 8 | 165 | |
| Hardpan | 20 | 185 | |
| Sand and fine gravel, cemented | 18 | 203 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale and coal | 3 | 206 | |
| Fire clay | 6 | 212 | |
| Shale, dark | 18 | 230 | |
| Shale, light | 43 | 273 | |

Well 14/9W-25M1

Type of record: Driller's log. Altitude: About 525 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 6 | 6 | |
| Sand | 27 | 33 | |
| Hardpan | 13 | 46 | |
| Gravel and sand | 34 | 80 | W. B. |
| Sand, fine | 10 | 90 | W. B. |

Well 14/9W-26A1

Type of record: Driller's log. Altitude: About 525 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Top soil | 4 | 4 | |
| Sand and gravel, yellow | 39 | 43 | |
| Hardpan, sandy, gray | 19 | 62 | |
| Sand and gravel, yellow | 32 | 94 | W. B. |

Table 5.--Selected well logs, Parke County--Continued

Well 14/9W-26R1

Type of record: Driller's log. Altitude: About 530 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Top soil, sandy, black---------- | 6 | 6 | |
| Sand---------- | 14 | 20 | |
| Sand and gravel---------- | 34 | 54 | |
| Hardpan, brown---------- | 17 | 71 | |
| Sand---------- | 29 | 100 | W. B. |
| Gravel---------- | 5 | 105 | W. B. |

Well 15/6W-8N1

Type of record: Driller's log. Altitude: About 740 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow---------- | 20 | 20 | |
| Hardpan, gray---------- | 23 | 43 | |
| Sand, dirty---------- | 2 | 45 | W. B. |
| Clay and hardpan, gray---------- | 17 | 62 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone---------- | 3 | 65 | |
| Shale, blue, and sandstone------ | 25 | 90 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone, gray---------- | 42 | 132 | W. B. |

Well 15/6W-9G1

Type of record: Driller's log. Altitude: About 740 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series | | | |
| Clay---------- | 24 | 24 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, gray---------- | 9 | 33 | |
| Sandstone---------- | 5 | 38 | |
| Shale, gray---------- | 20 | 58 | |
| Sandstone, red---------- | 37 | 95 | |
| Mississippian? System: | | | |
| Osage? Series: | | | |
| Sandstone, gray---------- | 85 | 180 | |

Table 5.--Selected well logs, Parke County--Continued

Well 15/6W-10L1

Type of record: Driller's log. Altitude: About 665 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 10 | 10 | |
| Clay, gray | 10 | 20 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, dark-gray | 10 | 30 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone, gray | 60 | 90 | |
| Limestone, brown | 20 | 110 | |

Well 15/6W-11K1

Type of record: Driller's log. Altitude: About 750 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 19 | 19 | |
| Clay, gray | 2 | 21 | |
| Pennsylvanian? System: | | | |
| Lower? Pennsylvanian Series: | | | |
| Bluestone and blue shale | 39 | 60 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone | 40 | 100 | W. B. |

15/6W-15B1

Type of record: Driller's log. Altitude: About 720 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, sandy, brown | 40 | 40 | |
| Sand | 7 | 47 | |
| Clay and sandy hardpan, gray | 11 | 58 | |
| Pennsylvanian? System: | | | |
| Lower? Pennsylvanian Series: | | | |
| Shale | 22 | 80 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone alternating with shale- | 13 | 93 | W. B. |

Well 15/6W-16F1

Type of record: Driller's log. Altitude: About 700 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 50 | 50 | |
| Hardpan and streaks of sand | 5 | 55 | |
| Clay, gray | 33 | 88 | |

Table 5.--Selected well logs, Parke County--Continued

Well 15/6W-16F1--Continued

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone---------- | 12 | 100 | W. B. |

Well 15/6W-22G1

Type of record: Driller's log. Altitude: About 705 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow---------- | 25 | 25 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, shelly, brown-------- | 15 | 40 | |
| Sandstone---------- | 8 | 48 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone, gray---------- | 32 | 80 | |
| Limestone, soft, white---------- | 50 | 130 | |
| Limestone, hard, gray---------- | 45 | 175 | |
| Limestone, blue---------- | 125 | 300 | |
| Osage? Series: | | | |
| Limestone, sandy, blue---------- | 35 | 335 | |

Well 15/6W-27D1

Type of record: Driller's log. Altitude: About 716 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Top soil---------- | 0.5 | 0.5 | |
| Clay, inorganic, low to medium plasticity, damp, firm, brown | 8.5 | 9 | |
| Clay, inorganic, low to medium plasticity, moist, firm, brown---------- | 10 | 19 | |
| Sand, silty, wet, pervious, brown---------- | 2 | 21 | |
| Sand, clayey, moist, firm, brown (glacial till)---------- | 14 | 35 | |
| Clay, inorganic, low to medium plasticity, moist, firm, gray---------- | 3 | 38 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, micaceous, silty, hard, dark-gray---------- | 7.5 | 45.5 | |
| Siltstone, micaceous, brittle, hard, gray---------- | 1.5 | 47 | |
| Shale, silty, hard, gray-------- | 2 | 49 | |
| Siltstone, micaceous, hard, gray | 4 | 53 | |

Table 5.--Selected well logs, Parke County--Continued

Well 15/6W-27D1--Continued

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, micaceous, silty, hard, dark-gray | 3 | 56 | |
| Coal | .5 | 56.5 | |
| Shale, silty, hard, gray, with carbonaceous laminae | 6 | 62.5 | |
| Shale, fine-grained to silty, hard, light-gray | 3.5 | 66 | |
| Siltstone, hard, light-gray | 3.5 | 69.5 | |
| Shale, medium-hard, gray | 3 | 72.5 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone, crystalline, fine-grained, hard, light-gray; syritic (sic.) | 6 | 78.5 | Pyritic? |
| Limestone, argillaceous, fine-grained, hard, gray; with syritic, shale seams (sic.) | 3.5 | 82 | Pyritic? |

Well 15/6W-27E1

Type of record: Driller's log. Altitude: About 704 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Top soil | 1 | 1 | |
| Clay, inorganic, low to medium plasticity, with trace of poorly-graded gravel and sand; firm, brown | 5.5 | 6.5 | |
| Sand, clayey, compact, gray to brown, and weathered sandstone fragments (glacial till) | 18.5 | 25 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, coarse-grained, horizontal bedding planes, medium-hard, brown | 5.5 | 30.5 | |
| Clay, inorganic, low to medium plasticity, soft to hard, brown and gray, with sandstone fragments | 1 | 31.5 | |
| Coal | 2 | 33.5 | |
| Shale, silty, medium-hard, dark-gray with concretions | 17 | 50.5 | |
| Shale, sandy to silty, hard, dark-gray | 2.5 | 53 | |
| Shale, carbonaceous, silty, hard, black | 5 | 58 | |

Table 5.--Selected well logs, Parke County--Continued

Well 15/6W-27E1--Continued

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Siltstone, fine-grained to argillaceous, medium-hard, gray | 34 | 92 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone, fine-grained to lithographic, pyritic, hard to dense, light-gray | 12 | 104 | |

Well 15/6W-27F2

Type of record: Driller's log. Altitude: About 746 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Top soil, moist, firm, gray | 0.5 | 0.5 | |
| Clay, inorganic, low to medium plasticity, firm, brown | 5 | 5.5 | |
| Sand, clayey, firm, brown (glacial till) | 11 | 16.5 | |
| Sand, silty, firm, brown | 4 | 20.5 | |
| Gravel, clayey, firm, brown | 5.5 | 26 | |
| Sand, silty, firm, gray (glacial till) | 28 | 54 | |
| Sand, clayey, firm, gray (glacial till) | 1.5 | 55.5 | |
| Gravel, clayey, firm, gray (glacial till) | 1 | 56.5 | |

Well 15/6W-27F3

Type of record: Driller's log. Altitude: About 751 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Top soil | 0.5 | 0.5 | |
| Clay, inorganic, low to medium plasticity, damp, firm, brown | 6.3 | 6.8 | |
| Sand, clayey, silty, moist, firm, brown | 22.5 | 29.3 | |
| Sand, poorly-graded, gravelly, damp, soft, brown | 7 | 36.3 | |
| Sand, silty, wet, pervious, brown | 10 | 46.3 | |
| Sand, silty, damp, firm, gray | 6.5 | 52.8 | |
| Clay, inorganic, low to medium plasticity, damp, soft, gray | 3.2 | 56 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, soft, dark-gray | 4.8 | 60.8 | |

Table 5.--Selected well logs, Parke County--Continued

Well 15/6W-28D1

Type of record: Driller's log. Altitude: About 691 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Top soil | 0.5 | 0.5 | |
| Clay, inorganic, low to medium plasticity, damp, moderately-firm, brown | 12 | 12.5 | |
| Clay, inorganic, low to medium plasticity, gray (glacial till) | 10.5 | 23 | |
| Clay, inorganic, low to medium plasticity, brown | 3 | 26.5 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, weathered, moist, compact, gray | 6.8 | 33.3 | |
| Shale, medium-hard, gray, with thin interbeds of sandstone | 9 | 42.3 | |
| Shale, conglomerate, cherty, poorly-cemented, with sandstone | 2.5 | 44.8 | |

Well 15/6W-28G2

Type of record: Driller's log. Altitude: About 708 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Top soil | .5 | .5 | |
| Clay, inorganic, low to medium plasticity, moist, brown | 11.6 | 12.1 | |
| Sand, clayey, moderately-compact, brown | 1.9 | 14 | |
| Clay, inorganic, low to medium plasticity, moist, moderately-firm, brown | 1.3 | 15.3 | |
| Sand, clayey, wet, compact, brown | 27.9 | 43.2 | |
| Sand, gravelly, wet, gray | 1 | 44.2 | |
| Sand, clayey, moist, compact, gray (glacial till) | 18.4 | 62.6 | |
| Sand, gravelly, wet, compact, brown | .5 | 63.1 | |
| Clay, inorganic, low to medium plasticity, moist, firm, gray | 5 | 68.1 | |
| Sand, gravelly, slightly compact, gray | 1 | 69.1 | |
| Clay, inorganic, low to medium plasticity, moist, firm, gray | 6.5 | 75.6 | |
| Clay, inorganic, high plasticity, moderately firm, brown | 3.1 | 78.7 | |

Table 5.--Selected well logs, Parke County--Continued

Well 15/6W-28G2--Continued

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone, medium-grained, oolitic, slightly weathered, buff | 2.2 | 80.9 | |
| Limestone, hard, vaughnitic, with calcite inclusions, stylolitic, unhealed, buff | 9.3 | 90.2 | |
| Limestone, fine-grained, crystalline, oolitic, pyritic, dense, hard, light-gray; cherty near bottom | 3.4 | 93.6 | |

Well 15/6W-28G3

Type of record: Driller's log. Altitude: About 686 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Top soil | .5 | .5 | |
| Clay, inorganic, low to medium plasticity, moist, moderately firm, brown | 14.5 | 15 | |
| Sand, gravelly, wet, firm, brown | .5 | 15.5 | |
| Clay, moist, hard, brown | 1.5 | 17 | |
| Sand, well-graded, wet, compact, brown | 2 | 19 | |
| Clay, inorganic, low to medium plasticity, moist firm, brown and gray | 16.5 | 35.5 | |
| Clay, inorganic, high plasticity, moist, moderately firm, reddish-brown | 14.5 | 50 | |
| Limestone, coarse-grained, hard, brown and gray | 1 | 51 | float |
| Clay, inorganic, high plasticity, moderately firm, brown; with limestone fragments | 3.2 | 54.2 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone, fine-grained, dense, medium-hard, light-gray | 8.1 | 62.3 | |
| Limestone, medium to fine-grained, hard, light-gray | 23.5 | 85.8 | |
| Limestone, pyritic, medium-hard, dark-gray | 2.5 | 88.3 | |
| Limestone, argillaceous, medium-hard, gray | 19.5 | 107.8 | |
| Limestone, fine-grained, dense, hard, gray | 12 | 119.8 | |

Well 15/6W-28G3--Continued

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone, dense to earthy, hard, gray | 17.5 | 137.3 | |
| Limestone, argillaceous to earthy, hard, gray to buff | 7 | 144.3 | |
| Limestone, dense, hard, gray to buff | 25 | 169.3 | |

Well 15/6W-28H1

Type of record: Driller's log. Altitude: About 609 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, inorganic, low to medium plasticity, damp, firm, brown- | 3.5 | 3.5 | |
| Clay, inorganic, low to medium plasticity, moist, firm, brown and gray | 6.1 | 9.6 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, fine to medium-grained, weathered, buff to gray | 2.4 | 12 | |
| Sandstone, fine-grained, carbonaceous, shaly, light-gray | 10 | 22 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone, fine-grained, dense, argillaceous, light-gray | 21.7 | 43.7 | |

Well 15/6W-28Q1

Type of record: Driller's log. Altitude: About 620 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 10 | 10 | |
| Sand | 40 | 50 | Dry |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone | 49 | 129 | |
| Shale, limy | 5 | 134 | |
| Limestone | 6 | 140 | |

Table 5.--Selected well logs, Parke County--Continued

Well 15/6W-34D1

Type of record: Driller's log. Altitude: About 611 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand and gravel, fine to coarse, brown, with some cobbles | 2.5 | 2.5 | |
| Clay, sandy, and trace of fine gravel | 5.5 | 8 | |
| Sand, fine to medium, gray | 3 | 11 | |
| Clay, shaly, very hard, brown and gray | 3 | 14 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone | 5 | 19 | |

15/6W-35H1

Type of record: Driller's log. Altitude: About 710 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 20 | 20 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone | 22 | 42 | |
| Shale | 16 | 58 | |

Well 15/7W-3H1

Type of record: Driller's log. Altitude: About 590 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand, yellow | 18 | 18 | |
| Gravel, dirty | 10 | 28 | W. B. |
| Gravel, clean, coarse | 4 | 32 | W. B. |

Well 15/7W-4K1

Type of record: Driller's log from memory. Altitude: About 620 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, blue | 40 | 40 | |
| Clay, yellow | 4 | 44 | |
| Clay, blue | 18 | 62 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, white | 40 | 102 | W. B. |

Table 5.--Selected well logs, Parke County--Continued

Well 15/7W-9D1

Type of record: Driller's log. Altitude: About 680 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 20 | 20 | |
| Hardpan | 20 | 40 | |
| Sand | 28 | 68 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Slate, black, and trace of coal- | 31 | 99 | |
| Sandstone | 21 | 120 | W. B. |

Well 15/7W-9K3

Type of record: Driller's log. Altitude: About 570 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Mud | 5 | 5 | |
| Mud, silty, sandy | 5 | 10 | |
| Sand, silty, red | 10 | 20 | |
| Clay, shaly, hard, dark | 3 | 23 | |
| Sand and gravel | 44 | 67 | W. B. |

Well 15/7W-9J2

Type of record: Driller's log. Altitude: About 570 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Top soil | 2 | 2 | |
| Clay, hard | 3 | 5 | |
| Clay, light-blue | 8 | 13 | |
| Sand and gravel, some silt | 7 | 20 | W. B. |
| Gravel | 47 | 67 | W. B. |
| Pennsylvanian(?) System: | | | |
| Lower(?) Pennsylvanian Series: | | | |
| Rock | -- | 67 | |

Well 15/7W-10A2

Type of record: Driller's log. Altitude: About 575 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay | 5 | 5 | |
| Sand and gravel | 5 | 10 | |
| Sand and medium gravel | 5 | 15 | |
| Gravel, small, and sand | 20 | 35 | W. B. 23 to 53 ft. |
| Gravel, large and small | 5 | 40 | |
| Sand, fine, and small gravel | 5 | 45 | |
| Gravel, large, and medium sand | 8 | 53 | |

Table 5.--Selected well logs, Parke County--Continued

Well 15/7W-13B2

Type of record: Driller's log. Altitude: About 715 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 20 | 20 | |
| Hardpan | 30 | 50 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, gray | 32 | 82 | |
| Sandstone | 2 | 84 | |
| Shale, light-gray | 3 | 87 | |
| Sandstone | 2 | 89 | |
| Shale, light-gray | 21 | 110 | |
| Sandstone | 2 | 112 | |
| Shale, sandy, light-gray | 22 | 134 | |
| Shale, sandy, dark-gray | 3 | 137 | |
| Sandstone | 4 | 141 | W. B. |

Well 15/7W-16B1

Type of record: Driller's log. Altitude: About 565 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Mud | 10 | 10 | |
| Sand, silty, and mud | 10 | 20 | |
| Sand, silty, fine | 5 | 25 | W. B. |
| Sand and gravel, gray | 35 | 60 | W. B. |

Well 15/7W-18L1

Type of record: Driller's log. Altitude: About 680 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Drift, hardpan | 142 | 142 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Coal | 1 | 143 | |
| Sandstone | 1 | 144 | |
| Shale | 120 | 264 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone | 140 | 404 | W. B. |

Well 15/7W-20Q1

Type of record: Driller's log. Altitude: About 550 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, sandy, brown | 10 | 10 | |
| Clay, sandy, gray | 5 | 15 | |
| Clay, with fine gravel | 5 | 20 | |

Well 15/7W-20Q1--Continued

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, gray | 5 | 25 | |
| Clay, silty, gray | 5 | 30 | |
| Clay, sandy, gray | 5 | 35 | |
| Clay, sandy, with fine gravel; gray | 5 | 40 | |

Well 15/7W-27R1

Type of record: Driller's log. Altitude: About 660 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 16 | 16 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Slate, soft, blue | 4 | 20 | |
| Slate, blue | 28 | 48 | |
| Coal | 2 | 50 | |
| Fire clay | 2 | 52 | |
| Slate, sandy, gray | 12 | 64 | |
| Limestone, hard | 2 | 66 | |
| Mine opening | -- | 66 | |

Well 15/7W-32H1

Type of record: Driller's log. Altitude: About 540 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand, yellow | 18 | 18 | |
| Clay, blue | 62 | 80 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, soft, blue | 52 | 132 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Shale, gray, with limestone streak | 18 | 150 | |
| Limestone, gray | 30 | 180 | |
| Limestone, gray, with black flint | 40 | 220 | |
| Limestone, soft, white | 30 | 250 | |

Well 15/8W-1M1

Type of record: Driller's log. Altitude: About 730 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 5 | 5 | |
| Clay, gray | 5 | 10 | |

Table 5.--Selected well logs, Parke County--Continued

Well 15/8W-1M1--Continued

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, sandy, gray | 5 | 15 | |
| Clay, gray to brown | 5 | 20 | |
| Clay, brown | 10 | 30 | |
| Clay, gray | 25 | 55 | |
| Clay, gray and brown | 10 | 65 | |
| Hardpan, green to gray | 5 | 70 | |
| Sand and gravel, hard | 14 | 84 | Dry |
| Hardpan, gray | 6 | 90 | |
| Hardpan, sandy, brown | 5 | 95 | |
| Hardpan, brown | 5 | 100 | |
| Hardpan, sandy | 10 | 110 | |
| Hardpan, brown | 15 | 125 | |
| Gravel, shale, and hardpan | 3 | 128 | |
| Gravel, muddy | 2 | 130 | |
| Hardpan, brown | 4 | 134 | |
| Hardpan | 8 | 142 | |
| Sand, medium coarse | 4 | 146 | W. B. |
| Gravel, medium coarse and some sand | 4 | 150 | W. B. |
| Gravel, medium coarse | 14 | 164 | W. B. |
| Gravel | 8 | 172 | W. B. |

Well 15/8W-4P1

Type of record: Driller's log. Altitude: About 660 feet.

| | | | |
|---|---|---|---|
| Open well | 30 | 30 | |
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Pan, sandy | 12 | 42 | |
| Sandstone | 1 | 43 | Boulder? |
| Shale, gray | 4 | 47 | Clay? |
| Pan | 11 | 58 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, sandy, gray | 40 | 98 | |
| Coal | 1 | 99 | |
| Shale, sandy, gray | 6 | 105 | |
| Slate, black | 14 | 119 | |
| Shale, sandy, gray | 10 | 129 | |
| Sandstone | 21 | 150 | |
| Shale, sandy, gray | 70 | 220 | |
| Sandstone | 30 | 250 | |
| Shale, gray | 80 | 330 | |
| Sandstone | 25 | 355 | |

Table 5.--Selected well logs, Parke County--Continued

Well 15/8W-5J1

Type of record: Driller's log. Altitude: About 540 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay and sand, yellow | 44 | 44 | |
| Sand | 14 | 58 | |
| Hardpan, blue | 2 | 60 | |
| Sand and gravel, gray | 3 | 63 | W. B. |

Well 15/8W-5J2

Type of record: Driller's log. Altitude: About 540 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 21 | 21 | |
| Pennsylvanian System: | | | |
| Middle Pennsylvanian Series: | | | |
| Fire clay, white | 4 | 25 | |
| Shale, light-blue | 15 | 40 | |
| Limestone, broken, gray | 12 | 52 | |
| Slate, gray | 10 | 62 | |
| Shale, blue, with limestone streaks | 76 | 138 | |
| Shale, blue | 6 | 144 | |
| Sandstone, dense, gray | 26 | 170 | |
| Shale, gray | 2 | 172 | |
| Slate, brown | 1 | 173 | |
| Shale, blue | 22 | 195 | |
| Sandstone, white | 17 | 212 | W. B. |
| Lower? Pennsylvanian Series: | | | |
| Slate, blue | 5 | 217 | |
| Shale, sticky, blue | 18 | 235 | |

Well 15/8W-12D1

Type of record: Driller's log. Altitude: About 690 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow, and wash | 18 | 18 | |
| Clay, sandy, blue | 82 | 100 | |
| Hardpan, shaly, blue | 50 | 150 | |
| Mississippian? System: | | | |
| Meramec? Series: | | | |
| Limestone, blue to gray | 43 | 193 | |

Well 15/8W-14E1

Type of record: Driller's log. Altitude: About 620 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand | 12 | 12 | |
| Shale, blue | 6 | 18 | Clay? |
| Sand | 28 | 46 | W. B. |
| Shale, blue | 9 | 55 | Clay? |
| Clay, gummy | 33 | 88 | |
| Pennsylvanian? System: | | | |
| Lower? Pennsylvanian Series: | | | |
| Shale, dark | 14 | 102 | |
| Shale, light | 173 | 275 | |
| Sandstone | 28 | 303 | T. D. 1,444 ft. |

Well 15/8W-19A1

Type of record: Driller's log. Altitude: About 540 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Soil and sand | 22 | 22 | |
| Clay, sandy, blue | 28 | 50 | |
| Pennsylvanian System: | | | |
| Middle Pennsylvanian Series: | | | |
| Shale, light-blue | 50 | 100 | |
| Sandstone, gray | 25 | 125 | W. B. |

Well 15/8W-19R1

Type of record: Driller's log. Altitude: About 640 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 2 | 2 | |
| Hardpan | 59 | 61 | W. B. at 45 ft |
| Pennsylvanian System: | | | |
| Middle Pennsylvanian Series: | | | |
| Shale | 29 | 90 | |
| Coal | 2 | 92 | W. B. |

Well 15/8W-23Q1

Type of record: Driller's log. Altitude: About 645 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 10 | 10 | |
| Sand | 2 | 12 | |
| Hardpan | 90 | 102 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, gray | 28 | 130 | W. B. |

Table 5.--Selected well logs, Parke County--Continued

Well 15/8W-24D1

Type of record: Driller's log. Altitude: About 650 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 11 | 11 | |
| Hardpan, sandy, blue | 74 | 85 | |
| Sand and gravel | 2 | 87 | W. B. |

Well 15/8W-24N1

Type of record: Driller's log. Altitude: About 650 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 20 | 20 | |
| Pan | 8 | 28 | |
| Sand | 3 | 31 | |
| Pan | 72 | 103 | |
| Gravel | 1 | 104 | W. B. |

Well 15/8W-26F1

Type of record: Driller's log. Altitude: About 640 feet.

| | | | |
|---|---|---|---|
| Well pit | 4 | 4 | |
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Hardpan | 99 | 103 | |
| Sand and gravel | 1 | 104 | W. B. |

Well 15/8W-27H1

Type of record: Driller's log. Altitude: About 640 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay and sand, yellow | 20 | 20 | |
| Hardpan, blue | 68 | 88 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, blue | 2 | 90 | |
| Sandstone | 20 | 110 | W. B. |

Well 15/8W-32D1

Type of record: Driller's log. Altitude: About 520 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand | 18 | 18 | |
| Sand and gravel | 9 | 27 | |
| Gravel, coarse | 1 | 28 | |
| Pennsylvanian System: | | | |
| Middle Pennsylvanian Series: | | | |
| Slate, blue | 50 | 78 | |

Table 5.--Selected well logs, Parke County--Continued

Well 15/8W-32L1

Type of record: Driller's log. Altitude: About 505 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand and gravel | 10 | 10 | |
| Pennsylvanian System: | | | |
| Middle Pennsylvanian Series: | | | |
| Shale, black | 10 | 20 | |
| Slate | 8 | 28 | |
| Shale | 10 | 38 | |
| Limestone, gray | 4 | 42 | |
| Fire clay | 2 | 44 | |

Well 15/8W-33L1

Type of record: Driller's log. Altitude: About 640 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Soil and yellow sand | 5 | 5 | |
| Sand and yellow clay | 13 | 18 | |
| Clay, pebbly, blue | 117 | 135 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, soft, blue | 15 | 150 | |
| Shale, gray, with slate streaks | 100 | 250 | |
| Shale, sandy, gray to white | 35 | 285 | |
| Sandstone, fine, white | 24 | 309 | W. B. |

Well 15/9W-2A1

Type of record: Driller's log. Altitude: About 490 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay and boulders | 21 | 21 | |
| Sand, fine | 17 | 38 | W. B. |
| Sand and gravel, dirty | 59 | 97 | W. B. |
| Gravel, medium | 1 | 98 | W. B. |

Well 15/9W-13P1

Type of record: Driller's log from memory. Altitude: About 490 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand and gravel | 42 | 42 | |
| Clay, blue | 14 | 56 | |
| Sand and gravel | 3 | 59 | W. B. |

Table 5.--Selected well logs, Parke County--Continued

Well 15/9W-13Q1

Type of record: Driller's log. Altitude: About 480 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow, and sand | 42 | 42 | |
| Gravel and sand | 18 | 60 | W. B. |
| Pennsylvanian System: | | | |
| Lower? Pennsylvanian Series: | | | |
| Soapstone, soft, caving | 40 | 100 | W. B. |
| Shale, blue | 15 | 115 | |

Well 15/9W-36R1

Type of record: Driller's log from memory. Altitude: About 540 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, sandy | 18 | 18 | |
| Hardpan, green to blue-green | 65 | 83 | |
| Sand and gravel, dirty | 5 | 88 | W. B. |
| Hardpan, gray | 22 | 110 | |

Well 16/6W-12H1

Type of record: Driller's log. Altitude: About 756 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, sandy, brown | 5 | 5 | |
| Sand, brown | 4 | 9 | |
| Sand and gravel | 5 | 14 | |
| Clay, gray, and sand | 15 | 29 | |
| Clay, gray, and gravel | 4 | 33 | |
| Mississippian System: | | | |
| Osage Series: | | | |
| Shale, hard, gray | 7 | 40 | |

Well 16/6W-12J1

Type of record: Driller's log. Altitude: About 775 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Top soil | 1 | 1 | |
| Clay, hard, yellow | 11 | 12 | |
| Clay, soft, black | 7 | 19 | |
| Clay, gritty, blue | 11 | 30 | |
| Clay, gritty, gray | 9 | 39 | |
| Sand, dirty, fine | 2 | 41 | |
| Clay, gritty | 28 | 69 | |
| Sand and clay | 6 | 75 | |
| Gravel, coarse, and sand | 5 | 80 | W. B. |
| Clay | -- | 80 | |

Table 5.--Selected well logs, Parke County--Continued

Well 16/6W-18C1

Type of record: Driller's log. Altitude: About 655 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 18 | 18 | |
| Muck; blue | 6 | 24 | |
| Sand, dirty, gray | 2 | 26 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone, gray | 100 | 126 | |
| Osage Series: | | | |
| Shale, blue | 15 | 141 | |
| Bluestone, with trace of shale | 59 | 200 | |

Well 16/6W-23E1

Type of record: Driller's log. Altitude: About 697 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Top soil | .3 | .3 | |
| Sand, clayey, brown, and fine to coarse gravel | 8.7 | 9 | |
| Sand, silty, soft, brown | 2 | 11 | |
| Sand and gravel, fine to coarse, brown | 17 | 28 | |
| Sand, fine to coarse, clayey, hard, gray (hardpan) | 12 | 40 | |

Well 16/6W-28B1

Type of record: Driller's log. Altitude: About 735 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay | 10 | 10 | |
| Hardpan | 48 | 58 | |
| Gravel | 2 | 60 | |
| Hardpan | 17 | 77 | |
| Gravel | 3 | 80 | W. B. |

Well 16/6W-28P1

Type of record: Driller's log from memory. Altitude: About 740 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 12 | 12 | |
| Clay, blue, with sand streaks | 48 | 60 | |
| Mississippian System: | | | |
| Osage Series: | | | |
| Shale, bluish-gray | 128 | 188 | W. B. |

Table 5.--Selected well logs, Parke County--Continued

Well 16/6W-31Q1

Type of record: Driller's log. Altitude: About 730 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay and hardpan | 48 | 48 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Slate, black, with trace of coal | 22 | 70 | |
| Sandstone | 43 | 113 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone, white | 15 | 128 | W. B. |

Well 16/6W-34N1

Type of record: Driller's log. Altitude: About 740 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 15 | 15 | |
| Pan, sandy | 35 | 50 | |
| Sand | 35 | 85 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, dark-gray | 23 | 108 | |
| Shale, sandy, gray | 82 | 190 | |
| Sandstone | 35 | 225 | |
| Shale, sandy, gray | 5 | 230 | |

Well 16/6W-35M1

Type of record: Driller's log. Altitude: About 750 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 14 | 14 | |
| Clay, gray | 16 | 30 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, gray | 8 | 38 | |
| Sandstone, hard, with trace of limestone | 12 | 50 | |
| Shale and sandstone | 25 | 75 | |
| Sandstone | 15 | 90 | |
| Sandstone and shale | 15 | 105 | |

Table 5.--Selected well logs, Parke County--Continued

Well 16/7W-3K1

Type of record: Driller's log. Altitude: 705 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Top soil | 1 | 1 | |
| Clay, yellow | 15 | 16 | |
| Clay, blue, with streaks of sand | 69 | 85 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, gray | 13 | 98 | |
| Limestone, dense, hard, gray | 6 | 104 | |
| Sandstone, fine, soft, white | 8 | 112 | W. B. |

Well 16/7W-4G2

Type of record: Driller's log. Altitude: About 650 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Hardpan, blue | 58 | 58 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, blue | 5 | 63 | |
| Slate, gray | 4 | 67 | |
| Limestone, dense, blue | 3 | 70 | |
| Coal | 3 | 73 | W. B. |
| Fire clay, white | 3 | 76 | |

Well 16/7W-4H3

Type of record: Driller's log. Altitude: About 675 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 15 | 15 | |
| Clay, blue | 65 | 80 | |
| Sand and gravel | 4 | 84 | |
| Pennsylvanian System: | | | |
| Middle? Pennsylvanian Series: | | | |
| Shale, blue | 20 | 104 | |
| Lower Pennsylvanian Series: | | | |
| Fire clay | 9 | 113 | |
| Slate and shale, blue | 47 | 160 | |
| Sandstone, blue | 20 | 180 | W. B. |
| Coal | 2 | 182 | |
| Fire clay | 8 | 190 | |
| Shale, blue | 10 | 200 | |

Table 5.--Selected well logs, Parke County--Continued

Well 16/7W-4K2

Type of record: Driller's log. Altitude: About 675 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow, and sand | 29 | 29 | |
| Sand, fine | 5 | 34 | |
| Clay, bouldery, blue | 46 | 80 | |
| Gravel, very coarse | 1 | 81 | W. B. |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, black | -- | 81 | |

Well 16/7W-4L2

Type of record: Driller's log. Altitude: About 680 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 8 | 8 | |
| Gravel | 1 | 9 | |
| Clay, blue | .5 | 9.5 | |
| Sand and gravel | 7 | 16.5 | |
| Clay, blue | 17.5 | 34 | |
| Sand and gravel, medium | 9 | 43 | W. B. |

Well 16/7W-6D1

Type of record: Driller's log. Altitude: About 640 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 14 | 14 | |
| Sand, yellow | 1 | 15 | W. B. |
| Clay, yellow | 9 | 24 | |
| Clay, gray | 52 | 76 | |
| Clay, sandy, gray | 8 | 84 | |
| Clay, gray | 6 | 90 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, soft, dirty | 8 | 98 | |
| Sandstone | 18 | 116 | |
| Sandstone and streak of coal | 30 | 146 | |
| Shale | -- | 146 | |
| Shale, blue | 4 | 150 | |
| Sandstone, white, with trace of shale | 30 | 180 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone, light-tan | 15 | 195 | |
| Limestone, brown | 15 | 210 | |
| Limestone, blue-speckled | 28 | 238 | |
| Limestone | 52 | 290 | |
| Limestone, blue, with trace of shale | 8 | 298 | |

Table 5.--Selected well logs, Parke County--Continued

Well 16/7W-6N1

Type of record: Driller's log. Altitude: About 660 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, blue | 44 | 44 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, sandy, gray | 16 | 60 | |
| Sandstone, fine, dense, gray | 10 | 70 | |
| Sandstone, gray, with streaks of slate | 10 | 80 | |
| Limestone, broken, gray | 8 | 88 | W. B. |

Well 16/7W-8L1

Type of record: Driller's log. Altitude: About 660 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 7 | 7 | |
| Sand, glacial drift | 12 | 19 | |
| Clay, blue | 8 | 27 | |
| Sand and gravel | 1 | 28 | W. B. |

Well 16/7W-9F1

Type of record: Driller's log. Altitude: About 710 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Soil, sandy | 10 | 10 | |
| Sand | 5 | 15 | W. B. |
| Gravel and sand | 5 | 20 | W. B. |
| Sand and gravel | 10 | 30 | W. B. |
| Shale, blue | 5 | 35 | Clay? |
| Shale, soft, muddy | 5 | 40 | Do |
| Shale, sandy | 5 | 45 | Do |
| Sand and gravel | 5 | 50 | W. B. |
| Gravel | 5 | 55 | W. B. |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, soft, black | 15 | 70 | |
| Coal | 5 | 75 | |
| Shale, black | 10 | 85 | |
| Shale | 60 | 145 | |
| Shale and soft sandstone | 5 | 150 | |
| Shale, hard, dark | 20 | 170 | |
| Shale and coal | 5 | 175 | |
| Sandstone, shaly, and some soft sandstone | 5 | 180 | |
| Sandstone, soft | 4 | 184 | |
| Sandstone, coarse, soft | 6 | 190 | |

Table 5.--Selected well logs, Parke County--Continued

Well 16/7W-9F1--Continued

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, fine---------- | 5 | 195 | W. B. |
| Sandstone, fine, harder--------- | 5 | 200 | W. B. |
| Sandstone and shale---------- | 5 | 205 | |
| Sandstone, coarse---------- | 15 | 220 | |
| Sandstone and shale---------- | 5 | 225 | |
| Sandstone, fine, harder--------- | 5 | 230 | |
| Sandstone, fine---------- | 15 | 245 | W. B. |
| Sandstone, coarse, white-------- | 5 | 250 | |
| Sandstone, coarse, white, and shale---------- | 5 | 255 | |
| Sandstone, coarse, white-------- | 5 | 260 | |

Well 16/7W-9L1

Type of record: Driller's log. Altitude: About 700 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow---------- | 8 | 8 | |
| Clay, gray---------- | 24 | 32 | |
| Clay, sandy---------- | 30 | 62 | |
| Pennsylvanian System: | | | |
| Middle? Pennsylvanian Series: | | | |
| Shale, gummy---------- | 18 | 80 | |
| Sandstone---------- | 5 | 85 | W. B. |
| Lower Series: | | | |
| Limestone---------- | 20 | 105 | W. B. |
| Shale, dark---------- | 25 | 130 | |
| Sandstone and shale, white------ | 15 | 145 | |
| Limestone, brown---------- | 13 | 158 | W. B. |
| Shale, dark---------- | 12 | 170 | |
| Sandstone, clean, light--------- | 7 | 177 | W. B. |
| Sandstone, fine, white, with trace of shale---------- | 33 | 210 | |
| Limestone, clear-grained-------- | 15 | 225 | W. B. |
| Limestone, hard, brown---------- | 2 | 227 | |
| Limestone, black---------- | 1 | 228 | |
| Limestone, brown, with streaks of shale and sandstone-------- | 12 | 240 | |

Well 16/7W-15E1

Type of record: Driller's log. Altitude: About 765 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow---------- | 14 | 14 | |
| Clay, sandy, soft, blue--------- | 53 | 67 | |

Table 5.--Selected well logs, Parke County--Continued

Well 16/7W-15E1--Continued

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand and gravel | .5 | 67.5 | W. B. |
| Hardpan, blue, with gravel | 29.5 | 97 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, soft, yellow, and sticky clay | 6 | 103 | |
| Shale, dense, hard, pearl-gray | 12 | 115 | |
| Sandstone, medium-fine, blue | 30 | 145 | |
| Slate, dense, hard, blue | 20 | 165 | |
| Slate, broken | 4 | 169 | Cavity |
| Shale, limy, blue | 5.5 | 174.5 | |
| Slate, black | 15.5 | 190 | |
| Shale, sticky, blue | 40 | 230 | |
| Sandstone, medium-fine, gray | 40 | 270 | W. B. |

Well 16/7W-15R1

Type of record: Driller's log. Altitude: About 745 feet.

| | | | |
|---|---|---|---|
| Dug well | 18 | 18 | |
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, blue | 52 | 70 | |
| Hardpan, brown | 30 | 100 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Slate, brown | 5 | 105 | |
| Coal | 5 | 110 | |
| Fire clay | 8 | 118 | |
| Sandstone, white | 77 | 195 | W. B. |

Well 16/7W-16L1

Type of record: Driller's log. Altitude: About 750 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Soil | 2 | 2 | |
| Clay, yellow | 14 | 16 | |
| Clay, blue | 30 | 46 | |
| Gravel, cemented, and large boulders | 89 | 135 | |
| Clay, hard, blue, and sand | 11 | 146 | |
| Gravel, coarse, gray | 2 | 148 | W. B. |

Table 5.--Selected well logs, Parke County--Continued

Well 16/7W-17F1

Type of record: Driller log. Altitude: About 665 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Soil and yellow clay | 10 | 10 | |
| Clay, sandy, blue | 50 | 60 | |
| Clay, blue | 11 | 71 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, soft, blue | 4 | 75 | |
| Slate, gray | 16 | 91 | |
| Sandstone, gray | 11 | 102 | W. B. |

Well 16/7W-19J1

Type of record: Driller's log. Altitude: About 725 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 18 | 18 | |
| Clay, blue | 62 | 80 | |
| Clay, muddy, blue, contains trash, rotten wood | 70 | 150 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, blue | 50 | 200 | |
| Sandstone, fine, sharp, dense, blue | 20 | 220 | W. B. |

Well 16/7W-19N1

Type of record: Driller's log. Altitude: About 715 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 18 | 18 | |
| Clay, blue, and sand | 62 | 80 | |
| Quicksand, gray | 10 | 90 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, gray | 25 | 115 | |
| Coal | 5 | 120 | W. B. |
| Fire clay | 4 | 124 | |
| Limestone, gray | 16 | 140 | W. B. |

Well 16/7W-20L1

Type of record: Driller's log. Altitude: About 740 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 22 | 22 | |
| Clay, blue | 64 | 86 | |

Table 5.--Selected well logs, Parke County--Continued

Well 16/7W-20L1--Continued

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, yellow | 14 | 100 | W. B. |
| Sandstone, gray | 3 | 103 | W. B. |
| Sandstone, white | 8 | 111 | W. B. |

Well 16/7W-21L1

Type of record: Driller's log. Altitude: About 725 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 21 | 21 | |
| Clay, blue | 39 | 60 | |
| Mud and sand, red | 1 | 61 | |
| Pennsylvanian system: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, dark-red | 29 | 90 | W. B. |

Well 16/7W-24L1

Type of record: Driller's log. Altitude: About 615 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Soil and yellow clay | 16 | 16 | |
| Gravel, dirty | 8 | 24 | |
| Clay, blue | 16 | 40 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, blue | 3 | 43 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone, creviced, gray to white | 22 | 65 | W. B. |

Well 16/7W-25F1

Type of record: Driller's log. Altitude: About 645 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 10 | 10 | |
| Pan, sandy | 26 | 36 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone | 8 | 44 | W. B. |

Well 16/7W-26Q1

Type of record: Driller's log. Altitude: About 630 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 5 | 5 | |
| Clay, gummy, yellow | 13 | 18 | |
| Hardpan, gravelly, yellow | 10 | 28 | |
| Sand and gravel, yellow | 9 | 37 | W. B. |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, dense, gray | 11 | 48 | |

Well 16/7W-29E1

Type of record: Driller's log. Altitude: About 725 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 15 | 15 | |
| Clay, blue, and sand | 65 | 80 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Fire clay | 4 | 84 | |
| Slate, gray | 2 | 86 | |
| Coal | 5 | 91 | |
| Shale, blue | 2 | 93 | |
| Slate, blue | 6 | 99 | |
| Coal | 5 | 104 | W. B. |

Well 16/7W-29Q1

Type of record: Driller's log. Altitude: About 685 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Top soil and yellow clay | 6 | 6 | |
| Clay with boulders and sand | 5 | 11 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, soft, blue | 9 | 20 | |
| Limestone, shaly, hard, white | 30 | 50 | |
| Sandstone, gray, and fire clay | 5 | 55 | W. B. |
| Shale, limy | 30 | 85 | |
| Slate, hard, flinty, fractured, black | 5 | 90 | W. B. |
| Limestone, soft, gray to white | 4 | 94 | |

Table 5.--Selected well logs, Parke County--Continued

Well 16/7W-30F1

Type of record: Driller's log. Altitude: About 710 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Fill---------- | 4 | 4 | |
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow---------- | 14 | 18 | |
| Clay, blue, and sand---------- | 22 | 40 | |
| Sand---------- | 1 | 41 | W. B. |
| Hardpan, sandy, light-gray------ | 59 | 100 | |
| Muck, soft, blue, contains leaves and sticks---------- | 51 | 151 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, weathered, white----- | 2 | 153 | |
| Limestone with streaks of sandstone---------- | 7 | 160 | |
| Shale, hard, blue---------- | 18 | 178 | |
| Coal, very hard---------- | 7 | 185 | |
| Fire clay, plastic, white------- | 11 | 196 | |
| Limestone, black---------- | 1 | 197 | Gas, W. B. |

Well 16/7W-30N1

Type of record: Driller's log. Altitude: About 700 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Top soil---------- | 2 | 2 | |
| Clay, yellow---------- | 16 | 18 | |
| Clay, blue---------- | 62 | 80 | |
| Hardpan, gravelly---------- | 19 | 99 | |
| Gravel and sand---------- | 1 | 100 | W. B. |

Well 16/7W-32H1

Type of record: Driller's log. Altitude: About 695 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow---------- | 49 | 49 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, yellow---------- | 4 | 53 | |
| Sandstone, white---------- | 27 | 80 | W. B. |

Table 5.--Selected well logs, Parke County--Continued

Well 16/7W-33D1

Type of record: Driller's log. Altitude: About 700 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay | 18 | 18 | |
| Glacier washout | 20 | 38 | Glacial outwash? |
| Hardpan | 6 | 44 | |
| Sand and gravel | 3 | 47 | W. B. |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, sandy | 13 | 60 | |
| Sandstone | 23 | 83 | W. B. |

Well 16/7W-33N1

Type of record: Driller's log. Altitude: About 700 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Soil and yellow clay | 14 | 14 | |
| Clay, sandy, gray | 36 | 50 | |
| Gravel, coarse | 4 | 54 | W. B. |
| Hardpan, blue | 16 | 70 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, blue | 10 | 80 | |
| Coal | 4 | 84 | |
| Shale, limy, blue | 18 | 102 | |

Well 16/7W-35Q1

Type of record: Driller's log. Altitude: About 585 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand, yellow | 14 | 14 | |
| Gravel, dirty | 15 | 29 | |
| Gravel, coarse, clean | 5 | 34 | |

Well 16/8W-1E1

Type of record: Driller's log. Altitude: About 670 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Soil | 4 | 4 | |
| Clay, yellow | 14 | 18 | |
| Clay, blue | 32 | 50 | |
| Hardpan, blue | 61 | 111 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, blue | 4 | 115 | |
| Sandstone, white | 24 | 139 | W. B. |

Table 5.--Selected well logs, Parke County--Continued

Well 16/8W-2M1

Type of record: Driller's log. Altitude: About 675 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Top soil | 1 | 1 | |
| Clay, yellow | 21 | 22 | |
| Clay, blue | 48 | 70 | |
| Clay, gravelly, blue | 10 | 80 | |
| Gravel, coarse | 1 | 81 | W. B. |

Well 16/8W-7Q1

Type of record: Driller's log. Altitude: About 530 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 2 | 2 | |
| Sand and gravel | 94 | 96 | Dry |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, gray | 4 | 100 | |
| Shale, sandy, gray | 43 | 143 | |
| Coal | .5 | 143.5 | |
| Shale, sandy, gray | 9.5 | 153 | |
| Coal | .5 | 153.5 | |
| Shale, sandy, gray | 39.5 | 193 | |

Well 16/8W-7Q2

Type of record: Driller's log. Altitude: About 530 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 4 | 4 | |
| Gravel, sandy | 40 | 44 | Dry |
| Pan | 100 | 144 | |
| Gravel | 5 | 149 | W. B. |

Well 16/8W-8N1

Type of record: Driller's log. Altitude: About 605 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, red | 20 | 20 | |
| Sand | 10 | 30 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Fire clay | 34 | 64 | |
| Shale | 176 | 240 | |
| Limestone | 45 | 285 | |

Table 5.--Selected well logs, Parke County--Continued

Well 16/8W-10Q1

Type of record: Driller's log. Altitude: About 660 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Top soil | 2 | 2 | |
| Clay, yellow | 20 | 22 | |
| Clay, sandy, blue | 68 | 90 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, gray | 20 | 110 | |
| Slate, gray | 90 | 200 | |
| Slate, gray, with streaks of sandstone | 15 | 215 | |

Well 16/8W-11A1

Type of record: Driller's log. Altitude: About 650 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 14 | 14 | |
| Clay, blue | 28 | 42 | |
| Sand, gray | 1 | 43 | |
| Hardpan, blue | 27 | 70 | Oily |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, blue | 26 | 96 | |
| Sandstone, gray | 12 | 108 | |
| Shale, blue | 52 | 160 | |
| Sandstone, white | 10 | 170 | W. B. |
| Shale, gray | 26 | 196 | |
| Sandstone, gray | 14 | 210 | W. B. |
| Fire clay, soft, white | 16 | 226 | |
| Sandstone, coarse, gray | 11 | 237 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone, coarse, soft, gray | 14 | 251 | |
| Fire clay, hard, white | 2 | 253 | |

Well 16/8W-12D3

Type of record: Driller's log. Altitude: About 640 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Old well | 15 | 15 | |
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, sandy, blue | 45 | 60 | |
| Sand grading to gravel | 10 | 70 | W. B. |
| Gravel and sand | 10 | 80 | W. B. |

Table 5.--Selected well logs, Parke County--Continued

Well 16/8W-12R1

Type of record: Driller's log. Altitude: About 660 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 24 | 24 | |
| Clay, blue | 26 | 50 | Oily |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, sandy, blue | 30 | 80 | |
| Shale, blue | 130 | 210 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone, gray | 12 | 222 | W. B. |

Well 16/8W-13E1

Type of record: Driller's log. Altitude: About 650 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, very soft, yellow | 40 | 40 | |
| Clay, soft, blue | 24 | 64 | |
| Clay, shaly, soft, blue | 6 | 70 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Limestone, dense, gray | 10 | 80 | |
| Coal | 2 | 82 | |
| Fire clay, plastic, white | 8 | 90 | |
| Siltstone, brown | 10 | 100 | |
| Sandstone, fine, brown | 10 | 110 | W. B. |

Well 16/8W-13F1

Type of record: Driller's log. Altitude: About 650 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 18 | 18 | |
| Clay, blue, and sand | 52 | 70 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, white | 30 | 100 | |
| Fire clay | 10 | 110 | |
| Shale, blue | 30 | 140 | |

Well 16/8W-13J1

Type of record: Driller's log. Altitude: About 645 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow, and sand | 10 | 10 | |
| Clay, blue | 64 | 74 | |
| Gravel, coarse | 2 | 76 | W. B. |

Table 5.--Selected well logs, P arke County--Continued

Well 16/8W-13L2

Type of record: Driller's log. Altitude: About 650 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Soil and white clay | 2 | 2 | |
| Clay, yellow | 16 | 18 | |
| Clay, sandy, blue | 30 | 48 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, blue | 12 | 60 | |
| Slate, blue | 20 | 80 | |
| Fire clay, sandy, white | 10 | 90 | |
| Sandstone, gray, with streaks of limestone | 14 | 104 | W. B. |

Well 16/8W-13P1

Type of record: Driller's log. Altitude: About 615 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow, and sand | 21 | 21 | |
| Clay, very hard, blue | 29 | 50 | |
| Gravel and sand | 2 | 52 | W. B. |

Well 16/8W-13P3

Type of record: Driller's log. Altitude: About 615 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Soil | 1 | 1 | |
| Clay, yellow | 9 | 10 | |
| Clay, soft, blue | 40 | 50 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, white | 21 | 71 | W. B. |

Well 16/8W-14D1

Type of record: Driller's log. Altitude: About 610 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, blue | 21 | 21 | |
| Sand, yellow | 15 | 36 | |
| Sand, coarser with depth, light-gray | 14 | 50 | W. B. |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale | -- | 50 | |

Table 5.--Selected well logs, Parke County--Continued

Well 16/8W-14J1

Type of record: Driller's log. Altitude: About 630 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 15 | 15 | |
| Clay, blue | 40 | 55 | |
| Mud, leaves, sticks | 5 | 60 | Odor |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, blue | 12 | 72 | |
| Shale, limy | 25 | 97 | W. B. |

Well 16/8W-16R1

Type of record: Driller's log. Altitude: About 650 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Soil and yellow clay | 18 | 18 | |
| Sand, yellow | 1 | 19 | |
| Clay, blue | 27 | 46 | |
| Pennsylvanian System: | | | |
| Middle Pennsylvanian Series: | | | |
| Slate and shale | 44 | 90 | W. B. |
| Shale, hard, blue | 10 | 100 | |

Well 16/8W-19E1

Type of record: Driller's log. Altitude: About 520 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Soil and yellow clay | 12 | 12 | |
| Clay, light-brown | 18 | 30 | |
| Gravel, dirty, brown | 1 | 31 | |
| Pennsylvanian System: | | | |
| Middle? Pennsylvanian Series: | | | |
| Shale, hard, blue | 17 | 48 | |
| Siltstone, hard, white | 22 | 70 | W. B. |
| Sandstone, gray | 26 | 96 | W. B. |
| Lower? Pennsylvanian Series: | | | |
| Coal, hard | 4 | 100 | |
| Fire clay | 2 | 102 | |
| Sandstone | -- | 102 | W. B. |

Well 16/8W-19M1

Type of record: Driller's log. Altitude: About 510 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface | 15 | 15 | |
| Softpan, sandy | 8 | 23 | |

Well 16/8W-19M1--Continued

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Pennsylvanian System: | | | |
| Middle? Pennsylvanian Series: | | | |
| Shale, soft, light | 4 | 27 | |
| Shale, sandy, light | 44 | 71 | W. B. 56 to 63 ft. |
| Lower? Pennsylvanian Series: | | | |
| Slate, dark | .5 | 71.5 | |
| Shale, black | 28.5 | 100 | |
| Sandstone, hard | 8 | 108 | |
| Shale, sandy, gray | 30 | 138 | |
| Shale, dark-gray | 20 | 158 | |
| Shale, sandy, light | 4 | 162 | |
| Shale, sandy, dark | 11 | 173 | |
| Sandstone, gray | 3 | 176 | |
| Shale, sandy, gray | 11 | 187 | Salt water |
| Shale, sandy, light | 13 | 200 | |
| Coal | 1 | 201 | |
| Shale, sandy, gray | 5 | 206 | |
| Sandstone, light | 21 | 227 | |
| Limestone | 3 | 230 | |

Well 16/8W-20N1

Type of record: Driller's log. Altitude: About 550 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow, and sand | 21 | 21 | |
| Hardpan, sandy, blue | 39 | 60 | |
| Hardpan, sandy | 10 | 70 | |
| Pennsylvanian System: | | | |
| Middle? Pennsylvanian Series: | | | |
| Limestone, gray | 20 | 90 | |
| Shale, gray | 30 | 120 | |
| Sandstone, white | 15 | 135 | W. B. |
| Shale, limy | 15 | 150 | |

Well 16/8W-22Q1

Type of record: Driller's log. Altitude: About 665 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow, and gravel | 18 | 18 | |
| Clay, blue | 6 | 24 | |
| Gravel | 1 | 25 | W. B. |
| Clay, blue, and gravel | 9 | 34 | |

Table 5.--Selected well logs, Parke County--Continued

Well 16/8W-23K1

Type of record: Driller's log. Altitude: About 615 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand and gravel | 40 | 40 | Dry |
| Sand, gray | 14 | 54 | W. B. |
| Hardpan | 2 | 56 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Limestone, blue | 4 | 60 | |
| Shale, sandy | 16 | 76 | |
| Sandstone, white | 10 | 86 | W. B. |
| Shale, blue | 4 | 90 | |

Well 16/8W-23P1

Type of record: Driller's log. Altitude: About 620 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 18 | 18 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, blue | 6 | 24 | |
| Limestone, blue | 4 | 28 | |
| Shale, cavy, light-gray | 32 | 60 | |
| Shale, sandy, light | 10 | 70 | |
| Limestone, white | 25 | 95 | |
| Slate, sandy, gray | 15 | 110 | |
| Shale, sandy | 38 | 148 | |
| Coal | 5 | 153 | |
| Fire clay, gray | 22 | 175 | |
| Shale, gray | 15 | 190 | |
| Coal | 8 | 198 | |
| Fire clay, gray | 2 | 200 | |

Well 16/8W-24A2

Type of record: Driller's log. Altitude: About 695 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 19 | 19 | |
| Clay, blue | 31 | 50 | |
| Hardpan, hard, blue | 20 | 70 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, yellow | 10 | 80 | |
| Shale, gray | 4 | 84 | |
| Sandstone, coarser with depth, gray to white | 26 | 110 | W. B. |

Table 5.--Selected well logs, Parke County--Continued

Well 16/8W-24F1

Type of record: Driller's log. Altitude: About 640 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Soil and clay | 10 | 10 | |
| Sand, yellow | 16 | 26 | |
| Clay, yellow | 2 | 28 | |
| Sand and gravel, gray | 10 | 38 | W. B. |
| Gravel, medium-coarse | 6 | 44 | W. B. |

Well 16/8W-26J1

Type of record: Driller's log. Altitude: About 715 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 18 | 18 | |
| Hardpan, blue | 78 | 96 | |
| Gravel | 3 | 99 | W. B. |

Well 16/8W-27D1

Type of record: Driller's log. Altitude: About 670 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Surface clay | 6 | 6 | |
| Clay and sand | 5.5 | 11.5 | |
| Boulder clay | 30.5 | 42 | |
| Pennsylvanian System: | | | |
| Middle Pennsylvanian Series: | | | |
| Shale, bluish-gray | 44 | 86 | |
| Lower Pennsylvanian Series: | | | |
| Shale, blue | 1.3 | 87.3 | |
| Coal | .5 | 87.8 | |
| Clay, blue | 29.7 | 117.5 | |
| Limestone | 1.3 | 118.8 | |
| Shale, blue | 1 | 119.8 | |
| Coal | .2 | 120 | |
| Fire clay | 2 | 122 | |

Well 16/8W-30E3

Type of record: Driller's log. Altitude: About 520 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 18 | 18 | |
| Sand and gravel | 6 | 24 | Dry |
| Clay, blue | 11 | 35 | |
| Clay, gritty, blue | 5 | 40 | |
| Shale, soft, broken | 4 | 44 | Boulder? |
| Clay, blue | 14 | 58 | |

Table 5.--Selected well logs, Parke County--Continued

Well 16/8W-30E3--Continued

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Pennsylvanian System: | | | |
| Middle Pennsylvanian Series: | | | |
| Shale---------- | -- | 58 | |

Well 16/8W-33F1

Type of record: Driller's log. Altitude: About 660 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow, and sand---------- | 37 | 37 | |
| Clay, blue, and sand---------- | 10 | 47 | |
| Sand and marl---------- | 2 | 49 | |
| Clay, blue---------- | 3 | 52 | |
| Pennsylvanian System: | | | |
| Middle Pennsylvanian Series: | | | |
| Sandstone, soft, white---------- | 8 | 60 | |
| Sandstone, hard, brown---------- | 6 | 66 | W. B. |
| Cavity---------- | 1 | 67 | |
| Shale, white---------- | 1 | 68 | |

Well 16/8W-34H1

Type of record: Driller's log. Altitude: About 720 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow---------- | 12 | 12 | |
| Hardpan, blue---------- | 48 | 60 | |
| Sand---------- | 3 | 63 | W. B. |
| Clay, blue---------- | 13 | 76 | |
| Clay, gravelly, blue---------- | 7 | 83 | W. B. |
| Sand---------- | 3 | 86 | W. B. |
| Pennsylvanian System: | | | |
| Middle? Pennsylvanian Series: | | | |
| Shale, brown---------- | 34 | 120 | |
| Lower Pennsylvanian Series: | | | |
| Fire clay---------- | 26 | 146 | |
| Slate, black, and coal---------- | 10 | 156 | W. B. |
| Slate and shale---------- | 69 | 225 | |
| Coal---------- | 7 | 232 | W. B. |
| Fire clay---------- | 3 | 235 | |
| Limestone---------- | 2 | 237 | W. B. |

Well 16/9W-25N1

Type of record: Driller's log. Altitude: About 514 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Gravel, dirty | 15 | 15 | |
| Gravel, coarse | 23 | 38 | Dry |
| Clay, sticky, blue | 29 | 67 | |
| Gravel, coarse | 57 | 124 | W. B. |

Well 16/9W-36D1

Type of record: Driller's log. Altitude: About 515 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Gravel, dirty | 12 | 12 | |
| Gravel | 41 | 53 | Dry |
| Clay, blue | 14 | 67 | |
| Gravel, yellow | 34 | 101 | W. B. |
| Gravel, blue | 33 | 134 | W. B. |
| Pennsylvanian System: | | | |
| Middle Pennsylvanian Series: | | | |
| Shale, blue | -- | 134 | |

Well 17/6W-18A1

Type of record: Driller's log. Altitude: About 545 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Boulders and sand | 20 | 20 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone, gray | 28 | 48 | |
| Osage? Series: | | | |
| Sandstone, white | 4 | 52 | W. B. |

Well 17/6W-21E1

Type of record: Driller's log from memory. Altitude: About 760 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, blue | 30 | 30 | |
| Clay, putty-like, red | 21 | 51 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone | 29 | 80 | W. B. |

Well 17/6W-31F1

Type of record: Driller's log. Altitude: About 750 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 23 | 23 | |
| Clay, gray | 31 | 54 | |
| Sand, dirty | 1 | 55 | W. B. |
| Hardpan, gray | 41 | 96 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, blue | 8 | 104 | |
| Sandstone, white, and blue shale | 16 | 120 | |
| Sandstone, clean, gray | 15 | 135 | W. B. |

Well 17/6W-33C1

Type of record: Driller's log. Altitude: About 795 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Soil | 2 | 2 | |
| Clay, yellow | 28 | 30 | |
| Clay, soft, blue | 50 | 80 | |
| Clay, gravelly, blue | -- | 80 | Gas |
| Hardpan, blue | 50 | 130 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, white | 35 | 165 | W. B. |

Well 17/7W-7D1

Type of record: Driller's log. Altitude: About 700 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, blue | 83 | 83 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, white | 29 | 112 | |
| Slate and shale | 14 | 126 | |
| Sandstone | 10 | 136 | |
| Slate, with streak of hard sandstone | 24 | 160 | W. B. |
| Slate, black | -- | 160 | |

Well 17/7W-11D1

Type of record: Driller's log from memory. Altitude: About 700 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 10 | 10 | |
| Clay, blue | 30 | 40 | |

Well 17/7W-11D1--Continued

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, white---------- | 70 | 110 | W. B. |

Well 17/7W-11K1

Type of record: Driller's log from memory. Altitude: About 700 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, blue---------- | 35 | 35 | |
| Sand, bark, wood, coal fragments | 45 | 80 | |
| Gravel, coarser with depth------ | 26 | 106 | W. B. |

Well 17/7W-11M1

Type of record: Driller's log from memory. Altitude: About 695 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow---------- | 12 | 12 | |
| Clay, blue---------- | 33 | 45 | |
| Quicksand---------- | 37 | 82 | |
| Sand and pebbly gravel---------- | 2 | 84 | W. B. |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale---------- | 36 | 120 | W. B. |

Well 17/7W-12R2

Type of record: Driller's log from memory. Altitude: About 710 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, blue---------- | 15 | 15 | |
| Sand and gravel, coarser with depth---------- | 51 | 66 | W. B. |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale---------- | -- | 66 | |

Well 17/7W-14D1

Type of record: Driller's log. Altitude: About 700 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Top soil---------- | 1 | 1 | |
| Clay, yellow---------- | 13 | 14 | |
| Clay, soft, blue---------- | 26 | 40 | |
| Hardpan, very hard, blue-------- | 40 | 80 | |
| Clay, sandy, soft, blue--------- | 62 | 142 | |

Well 17/7W-14D1--Continued

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, broken, and dirty sand | 4 | 146 | W. B. |
| Sandstone, broken, blue | 1 | 147 | |
| Sandstone, blue | 7 | 154 | |
| Sandstone, porous, soft, gray, with traces of coal | 11 | 165 | W. B. |

Well 17/7W-17E1

Type of record: Driller's log. Altitude: About 582 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand, yellow, and clay | 13 | 13 | |
| Clay, blue | 39 | 52 | |
| Sand | 1 | 53 | |
| Clay, blue | 19 | 72 | |
| Sand and clay | 60 | 132 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Shale, blue | 1 | 133 | |
| Limestone, coarse, white | 12 | 145 | |
| Limestone, and streaks of shale | 20 | 165 | W. B. |

Well 17/7W-17E3

Type of record: Driller's log. Altitude: About 570 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Hardpan, brown | 19 | 19 | |
| Clay, blue | 11 | 30 | |
| Shale, gravelly, gray | 22.5 | 52.5 | Clay? |
| Sand and gravel, dirty | 2.5 | 55 | |
| Sand, fine | 4 | 59 | |
| Log | -- | 59 | |
| Clay, gravelly | 7 | 66 | |
| Clay, blue | 4 | 70 | |
| Sand, fine | 5 | 75 | W. B. |
| Gravel | 2 | 77 | W. B. |
| Gravel | 3 | 80 | Dry, cemented zone? |
| Sand, very fine | 5 | 85 | Do |
| Gravel | 12 | 97 | W. B. |

Table 5.--Selected well logs, Parke County--Continued

Well 17/7W-20M1

Type of record: Driller's log. Altitude: About 540 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Dug well | 22 | 22 | |
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand, fine, yellow | 27.5 | 49.5 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone, yellow | 50.5 | 100 | |
| Limestone, gray | 40 | 140 | |
| Limestone, brown | 30 | 170 | W. B. |

Well 17/7W-23A1

Type of record: Driller's log. Altitude: About 705 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 18 | 18 | |
| Clay, soft, blue | 107 | 125 | |
| Gravel, yellow, and clay | 20 | 145 | |
| Hardpan, blue | 5 | 150 | |
| Sand and clay | 4 | 154 | W. B. |
| Sand, dirty, and clay | 16 | 170 | |
| Gravel, yellow, and clay | 9.5 | 179.5 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone | 20.5 | 200 | W. B. |
| Shale, blue | 1 | 201 | |

Well 17/7W-23P1

Type of record: Driller's log. Altitude: About 670 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 18 | 18 | |
| Clay or hardpan, blue | 72 | 90 | |
| Shale, soft | 10 | 100 | Clay? |
| Gravel and mud, gray | 3 | 103 | W. B. |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale | 22 | 125 | |
| Sandstone, moderately hard | 25 | 150 | |
| Sandstone, dirty | 10 | 160 | |
| Shale, softer with depth, gray | 30 | 190 | |
| Sandstone and limestone | 24 | 214 | |
| Shale, gray | 10 | 224 | |

Well 17/7W-23P1--Continued

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone, bluish-gray---------- | 10 | 234 | |
| Limestone, hard, white and gray- | 6 | 240 | |
| Fire clay---------- | 1 | 241 | |
| Limestone, white and gray------- | 23 | 264 | |
| Osage? Series: | | | |
| Sandstone---------- | 4 | 268 | |
| Limestone, gray, with streak of soft shale---------- | 27 | 295 | |
| Shale, sandy, light bluish-gray- | 47 | 342 | |

Well 17/7W-26C1

Type of record: Driller's log. Altitude: About 600 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Loam---------- | 6 | 6 | |
| Gravel---------- | 1 | 7 | |
| Clay, yellow---------- | 13 | 20 | |
| Hardpan, gray---------- | 48 | 68 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale---------- | 127 | 195 | |
| Sandstone, hard---------- | 1 | 196 | |
| Shale, hard---------- | 4 | 200 | |
| Limestone, hard---------- | 2 | 202 | |
| Shale, soft---------- | 4 | 206 | |
| Limestone, hard---------- | 3 | 209 | |
| Sandstone, soft---------- | 5 | 214 | |
| Sandstone, hard---------- | 2 | 216 | |
| Sandstone---------- | 11 | 227 | |
| Fire clay---------- | 2 | 229 | |
| Sandstone, white---------- | 14 | 243 | W. B. |

Well 17/7W-27P1

Type of record: Driller's log. Altitude: About 620 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow---------- | 35 | 35 | |
| Gravel---------- | 13 | 48 | Dry |
| Hardpan---------- | 8 | 56 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, black---------- | 14 | 70 | |
| Sandstone and shale---------- | 45 | 115 | |

Table 5.--Selected well logs, Parke County--Continued

Well 17/7W-29G1

Type of record: Driller's log. Altitude: About 575 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand, dirty | 15 | 15 | |
| Clay, blue | 35 | 50 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, blue | 38 | 88 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone, gray | 24 | 112 | W. B. |

Well 17/7W-29J1

Type of record: Driller's log from memory. Altitude: About 550 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand, gravel, and boulders | 68 | 68 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone | 32 | 100 | |
| Sandstone, brown | 6 | 106 | W. B. |
| Shale, sandy, blue | 55 | 161 | |

Well 17/7W-29Q2

Type of record: Driller's log. Altitude: About 640 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 5 | 5 | |
| Hardpan, yellow to brown | 15 | 20 | |
| Hardpan, sandy, yellow | 5 | 25 | |
| Hardpan, gravelly | 4 | 29 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, sandy, gray | 5 | 34 | |
| Fire clay, gray | 60 | 94 | |
| Shale, sandy, with streaks of limestone | 35 | 129 | |
| Limestone, sandy | 10 | 139 | |
| Coal | 5 | 144 | |
| Fire clay, gray | 5 | 149 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone, shaly, gray | 5 | 154 | |
| Limestone, sandy | 5 | 159 | |
| Limestone, sandy, shaly | 5 | 164 | |
| Limestone, sandy, dense | 5 | 169 | |
| Limestone, shaly | 5 | 174 | |
| Limestone, sandy | 6 | 180 | |

Table 5.--Selected well logs, Parke County--Continued

Well 17/7W-30J1

Type of record: Driller's log. Altitude: About 560 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay and gravel | 8 | 8 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, soft, blue | 12 | 20 | |
| Limestone, blue | 10 | 30 | |
| Shale, sandy | 20 | 50 | |
| Sandstone, gray | 20 | 70 | |
| Shale, blue | 2 | 72 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone, gray | 18 | 90 | |
| Limestone, white | 40 | 130 | |

Well 17/7W-31E1

Type of record: Driller's log. Altitude: About 660 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 15 | 15 | |
| Hardpan, brown | 35 | 50 | |
| Gravel, red, and clay | 7 | 57 | |
| Hardpan, blue | 13 | 70 | |

Well 17/7W-31K1

Type of record: Driller's log. Altitude: About 660 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, brown | 22 | 22 | |
| Clay, gravelly, blue | 61 | 83 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, soft, blue | 17 | 100 | |
| Sandstone, coarse, soft, clean, white | 7 | 107 | W. B. |

Well 17/7W-32K1

Type of record: Driller's log. Altitude: About 660 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Top soil and yellow clay | 5 | 5 | |
| Clay, sandy, soft, yellow | 2 | 7 | W. B. |
| Clay, sandy, yellow | 11 | 18 | |
| Clay, gravelly, blue | 12 | 30 | |

Well 17/7W-32K1--Continued

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, soft, yellow--- | 40 | 70 | |
| Sandstone, medium-coarse, bluish-gray--- | 15 | 85 | |
| Shale, plastic, gray--- | 36 | 121 | |
| Sandstone, fine-grained, gray--- | 4 | 125 | W. B. |

Well 17/7W-33B2

Type of record: Driller's log. Altitude: About 650 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow--- | 12 | 12 | |
| Sand and gravel--- | 1 | 13 | |
| Hardpan, blue--- | 42 | 55 | |
| Gravel--- | 1 | 56 | |
| Hardpan, gravelly, gray--- | 36 | 92 | |
| Sand--- | 5 | 97 | W. B. |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Sandstone, white--- | 3 | 100 | |
| Sandstone, coarse, dark--- | 6 | 106 | W. B. |

Well 17/7W-33L1

Type of record: Driller's log. Altitude: About 655 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Top soil--- | 2 | 2 | |
| Clay, yellow--- | 16 | 18 | |
| Hardpan, pebbly, blue--- | 52 | 70 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, soft, blue--- | 9 | 79 | |
| Sandstone, gray--- | 16 | 95 | W. B. |
| Shale, gray, with streaks of limestone--- | 8 | 103 | |

Well 17/7W-35B1

Type of record: Driller's log. Altitude: About 700 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow--- | 18 | 18 | |
| Clay, blue, with streaks of sand | 72 | 90 | |

Table 5.--Selected well logs, Parke County--Continued

Well 17/7W-35B1--Continued

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, cavy, blue | 11 | 101 | |
| Limestone, gray | 9 | 110 | |
| Slate, black | 20 | 130 | |
| Shale, sandy, white | 30 | 160 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Limestone, gray | 5 | 165 | |

Well 17/7W-35J1

Type of record: Driller's log. Altitude: About 695 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Top soil | 2 | 2 | |
| Clay, yellow | 17 | 19 | |
| Clay, gravelly, blue | 26 | 45 | |
| Gravel and sand, gray | 5 | 50 | W. B. |

Well 17/7W-36F1

Type of record: Driller's log. Altitude: About 715 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 14 | 14 | |
| Clay, blue, and gravel | 47 | 61 | |
| Gravel, dirty, and clay | 2 | 63 | W. B. |
| Clay, blue, and sand | 14 | 77 | |
| Sand and boulders | 2 | 79 | |
| Hardpan, blue, and gravel | 19 | 98 | |
| Gravel | -- | 98 | W. B. |

Well 17/8W-7L1

Type of record: Driller's log from memory. Altitude: About 580 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand | 35 | 35 | |
| Clay, blue | 22 | 57 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, black | 11 | 68 | W. B. |

Table 5.--Selected well logs, Parke County--Continued

Well 17/8W-9Q1

Type of record: Driller's log. Altitude: About 650 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Dug well | 40 | 40 | |
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, blue | 83 | 123 | |
| Gravel and sand | 3 | 126 | W. B. |

Well 17/8W-14F1

Type of record: Driller's log from memory. Altitude: About 675 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 15 | 15 | |
| Clay, blue | 105 | 120 | |
| Gravel | -- | 120 | W. B. |

Well 17/8W-21G1

Type of record: Driller's log from memory. Altitude: About 630 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, blue | 40 | 40 | |
| Sand | 10 | 50 | W. B. |
| Clay, blue | 38 | 88 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, with thin pebble band | 32 | 120 | W. B. |

Well 17/8W-27P1

Type of record: Driller's log. Altitude: About 660 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Top soil | 2 | 2 | |
| Clay, yellow | 20 | 22 | |
| Clay, hard, blue | 13 | 35 | |
| Sand, muddy, and gravel | 2 | 37 | |
| Clay, gravelly, blue | 23 | 60 | |
| Clay, sandy, blue | 10 | 70 | |
| Sand, muddy, with coal and sticks | 15 | 85 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, soft, dark-blue | 5 | 90 | |
| Shale, hard, dark-blue | 5 | 95 | |
| Limestone, coarse, black | 20 | 115 | |
| Fire clay, plastic, white | 5 | 120 | |
| Sandstone, shaly, blue | 10 | 130 | W. B. |

Table 5.--Selected well logs, Parke County--Continued

Well 17/8W-35B1

Type of record: Driller's log. Altitude: About 510 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Drift | 12 | 12 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, soft, blue | 18 | 30 | |
| Slate, gray, with cherty concretions | 61 | 91 | |
| Sandstone, white, with streaks of quartz | 20 | 111 | |
| Mississippian System: | | | |
| Meramec Series: | | | |
| Conglomerate, pebbly, with shale matrix | 2 | 113 | |
| Limestone, coarse-grained, fossiliferous | 23 | 136 | W. B. |

Well 17/9W-2F3

Type of record: Driller's log. Altitude: About 500 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Clay, yellow | 10 | 10 | |
| Clay, sandy, brown | 18 | 28 | |
| Clay, sandy, gray | 18 | 46 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, gray | 33 | 79 | |
| Limestone | 11 | 90 | W. B. |
| Shale, dark | 17 | 107 | |

Well 17/9W-12J2

Type of record: Driller's log. Altitude: About 555 feet.

| | | | |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand, yellow | 60 | 60 | |
| Clay, sandy, yellow | 10 | 70 | |
| Gravel, yellow | 4 | 74 | Dry, gas |
| Gravel and clay | 15 | 89 | |
| Pennsylvanian System: | | | |
| Lower Pennsylvanian Series: | | | |
| Shale, sandy, white | 6 | 95 | |
| Sandstone, white | 15 | 110 | W. B. |
| Fire clay, white | 6 | 116 | |

Table 5.--Selected well logs, Parke County--Continued

Well 17/9W-12P1

Type of record: Driller's log. Altitude: About 560 feet.

| Material | Thickness (feet) | Depth (feet) | Remarks |
|---|---|---|---|
| Quaternary System: | | | |
| Recent and Pleistocene Series: | | | |
| Sand, yellow---------- | 80 | 80 | |
| Gravel---------- | 20 | 100 | |
| Sand---------- | 15 | 115 | W. B. |
| Gravel, coarse---------- | 6 | 121 | W. B. |

Table 6.--Field chemical analyses in parts per million of water from wells, Parke County, Indiana

Well number: See text for description of well-numbering system.
Geologic age: Pl, Pleistocene; P, Pennsylvanian; M, Mississippian; D, Devonian.
Material: C, coal; G, gravel; Ls, limestone; S, sand; Sd-sh, sandy shale; Sh, shale; Sh-ss, shaly sandstone; Sls, siltstone; Ss, sandstone.

| Well | Material | Geologic age | Date of Collection | Temperature (°F) | Iron (Fe) | Bicarbonate ($HCO_3$) | Sulfate ($SO_4$) | Chloride (Cl) | Hardness as $CaCO_3$ (Calcium, magnesium) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 14/6W- 1R1 | Sh,Ss | P | 11-17-58 | 58 | 1.0 | 429 | -- | 6 | 292 | |
| 2N1 | Ss | P | 11-17-58 | 61 | .1 | 307 | -- | 8 | 224 | |
| 3Q1 | Ss | P | 12- 8-60 | 50 | 2.0 | 390 | 30 | 10 | 364 | |
| 5F1 | Ss | P | 9-22-59 | -- | 1.0 | 429 | 13 | 4 | 308 | |
| 7G1 | S,G | Pl | 11-17-58 | 55 | 5.0 | 317 | -- | 12 | 220 | |
| 7J1 | S,G | Pl | 11-17-58 | 56 | .1 | 439 | -- | 22 | 424 | |
| 8D1 | Ss | P | 11-17-58 | 55 | .1 | 410 | -- | 16 | 308 | |
| 12H1 | Ss | P | 9-22-59 | 66 | 5.0 | 468 | 17 | 5 | 344 | |
| 14B1 | Ss | P | 11-17-58 | 56 | .5 | 459 | -- | 22 | 364 | |
| 16B1 | S,G | Pl | 11-17-58 | 59 | .3 | 366 | -- | 6 | 276 | |
| 17D1 | Ss | P | 11-17-58 | -- | .3 | 429 | -- | 14 | 276 | |
| 19R1 | Ss | P | 11-18-58 | -- | 1.5 | 464 | -- | 10 | 352 | |
| 20B1 | Ss | P | 5-16-61 | 54 | 1.0 | 278 | 22 | 12 | 240 | |
| 22P1 | Sd-sh | P | 11-18-58 | -- | .5 | 278 | -- | 162 | 324 | |
| 27D1 | Ss | P | 5-13-58 | 58 | .2 | 390 | -- | 2 | 192 | Inflammable gas |
| 27G1 | S | Pl | 9-22-59 | 58 | 1.5 | 478 | 11 | 6 | 312 | |
| 32N1 | Ss? | P | 9-22-59 | -- | .1 | 464 | 11 | 6 | 14 | |
| 33A1 | ----- | P | 5-16-61 | 54 | 1.0 | 434 | 10 | 8 | 212 | |
| 34E1 | G | Pl | 9-22-59 | 55 | .5 | 337 | 10 | 5 | 200 | |
| 34N1 | Ss | P | 12- 8-60 | -- | .1 | 337 | 9 | 10 | 264 | |
| 35R2 | Ss | P | 11-21-58 | -- | 1.5 | 420 | -- | 4 | 136 | |
| 36C1 | Ss | P | 5-16-61 | 56 | 7.5 | 244 | 34 | 14 | 176 | |
| 36K1 | Ss | P | 11-21-58 | 55 | .3 | 429 | -- | 10 | 268 | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 36L1 | Ss | P | 11-21-58 | 55 | 1.0 | 405 | -- | 10 | 280 |
| 36Q1 | ----- | P | 11-21-58 | 59 | 1.0 | 459 | -- | 16 | 160 |
| 14/7W- 5C1 | Ss | P | 12- 7-60 | 52 | 1.5 | 386 | 15 | 12 | 304 |
| 5R1 | Ss | P | 12- 7-60 | -- | .1 | 420 | 85 | 616 | 296 |
| 6D1 | S,G | P1 | 9-22-59 | -- | .1 | 386 | 46 | 8 | 336 |
| 6D2 | G | P1 | 1-10-61 | 56 | 7.5 | 388 | 55 | 8 | 276 |
| 11Q1 | S,G | P1 | 12- 7-60 | 54 | .1 | 259 | 85 | 12 | 312 |
| 13P1 | Ss | P | 12- 7-60 | -- | .5 | 317 | 13 | 8 | 236 |
| 18P1 | S,G | P1 | 12- 7-60 | -- | .1 | 283 | 32 | 16 | 276 |
| 20D1 | ----- | P | 12- 7-60 | -- | .1 | 425 | 10 | 10 | 72 |
| 22D1 | Ss | P | 7-23-59 | -- | .3 | 425 | 20 | 22 | 300 |
| 22D3 | Ss | P | 9-23-59 | -- | .1 | 376 | 12 | 2 | 256 |
| 22E1 | Ss | P | 9-23-59 | -- | 1.5 | 312 | 14 | 6 | 224 |
| 22E2 | Ss | P | 9-23-59 | -- | .1 | 361 | 12 | 2 | 268 |
| 22E5 | Ss | P | 12- 7-60 | -- | .3 | 395 | 16 | 14 | 332 |
| 22K1 | S,G | P1 | 9-23-59 | -- | 1.5 | 410 | 64 | 4 | 352 |
| 24P1 | Ss | P | 9-23-59 | -- | .5 | 415 | 13 | 4 | 288 |
| 28L1 | Ss | P | 9-23-59 | -- | <.1 | 547 | 23 | 158 | 50 |
| 31B1 | S,G | P1 | 12- 7-60 | 52 | .1 | 259 | 14 | 10 | 236 |
| 32E1 | S | P1 | 4- 8-59 | -- | 1.5 | 425 | 20 | 8 | 242 |
| 35Q1 | Ss | P | 9-30-58 | -- | <.1 | 503 | -- | 20 | 168 |
| 36L1 | Ss | P | 9-23-59 | -- | 1.0 | 454 | 11 | 8 | 224 |
| 36L2 | Ss | P | 9-23-59 | -- | .3 | 488 | 17 | 7 | 128 |
| 14/8W- 5G1 | ----- | P | 9-24-59 | -- | .1 | 708 | 18 | 20 | 8 |
| 9F1 | C | P | 5-16-61 | -- | 3.0 | 371 | 60 | 10 | 236 |
| 14J1 | S,G | P1 | 9-23-59 | 56 | .3 | 288 | 66 | 14 | 272 |
| 16R1 | ----- | P1 | 9-23-59 | 65 | 5.0 | 429 | 140 | 8 | 384 |
| 18P1 | S,G | P1 | 5-16-61 | -- | 1.0 | 522 | 12 | 10 | 280 |
| 18R1 | S,G | P1 | 5-13-58 | 56 | 1.5 | 522 | -- | 6 | 308 |
| 21A1 | ----- | P | 7-23-59 | -- | .1 | 381 | 290 | 36 | 532 |
| 23R1 | G | P1 | 12- 7-60 | -- | .2 | 337 | 195 | 24 | 636 |
| 26A1 | G | P1 | 9-22-59 | -- | 1.0 | 303 | 48 | 5 | 236 |
| 30P1 | Ss | P | 12- 7-60 | -- | .5 | 664 | 8 | 152 | 84 |
| 30R1 | G | P1 | 12- 7-60 | -- | 4.0 | 454 | 11 | 12 | 316 |
| 31P1 | S,G | P1 | 8-26-59 | -- | <.1 | 415 | 13 | 2 | 284 |
| 33L1 | Ss | P | 9-23-59 | -- | .3 | 512 | 94 | 10 | 432 |

Table 6.--Field chemical analyses of water from wells, Parke County, Indiana--Continued

| Well | Material | Geologic age | Date of Collection | Temperature (°F) | Iron (Fe) | Bicarbonate ($HCO_3$) | Sulfate ($SO_4$) | Chloride (Cl) | Hardness as $CaCO_3$ (Calcium, magnesium) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 14/9W-13Q1 | Ls | P | 9-24-59 | -- | 0.1 | 556 | 140 | 30 | 344 | |
| 14K1 | G | Pl | 12- 7-60 | -- | .3 | 425 | 405 | 34 | 652 | |
| 23H2 | G | Pl | 9-24-59 | -- | .1 | 468 | 85 | 6 | 428 | |
| 23H3 | S,G | Pl | 12- 7-60 | -- | .1 | 464 | 25 | 10 | 432 | |
| 23R1 | S,G | Pl | 12- 7-60 | -- | .1 | 390 | 50 | 14 | 384 | |
| 24L1 | G | Pl | 9-24-59 | -- | 1.5 | 639 | 12 | 6 | 456 | |
| 24M1 | G,S | Pl | 12- 7-60 | -- | .1 | 478 | 21 | 14 | 440 | |
| 25M1 | S,G | Pl | 9-24-59 | -- | 2.0 | 532 | 88 | 7 | 452 | |
| 26J1 | G | Pl | 9-24-59 | -- | .5 | 517 | 87 | 8 | 440 | |
| 35H1 | G | Pl | 9-24-59 | -- | .1 | 381 | 115 | 8 | 372 | |
| 35L1 | S,G | Pl | 5-16-61 | -- | .2 | 249 | 60 | 12 | 260 | |
| 35R1 | S,G | Pl | 8-20-59 | -- | .1 | 342 | 33 | 14 | 320 | |
| 15/6W- 7E1 | Ss | P | 1-11-61 | 57 | 3.0 | 410 | 9 | 6 | 340 | |
| 7H1 | Sh | P | 11-19-58 | -- | .3 | 522 | -- | 10 | 188 | |
| 7J2 | S | Pl | 12- 8-60 | -- | 5.0 | 434 | 12 | 10 | 308 | |
| 7K1 | Ss | P | 11-19-58 | 56 | 1.0 | 498 | -- | 6 | 280 | |
| 8E1 | Ls | M | 11-19-58 | 56 | .1 | 493 | -- | 4 | 244 | |
| 9G1 | ----- | -- | 11-19-58 | 59 | >7.5 | 395 | -- | 10 | 284 | |
| 9H1 | Ss | M? | 11-20-58 | -- | 1.5 | 444 | -- | 16 | 336 | |
| 10E1 | Ss | P? | 11-19-58 | 55 | 5.0 | 434 | -- | 20 | 372 | |
| 10L1 | Ls | M | 12- 8-60 | -- | .5 | 420 | -- | 16 | 424 | |
| 12M1 | Sls,Ls | M? | 11-19-58 | -- | .1 | 503 | -- | 18 | 384 | |
| 13Q1 | Ss | -- | 2-16-60 | 52 | 10.0 | 395 | 115 | 4 | 380 | |
| 28Q1 | Ls | M | 12- 8-60 | -- | .1 | 327 | 20 | 16 | 292 | |
| 31M1 | Ss | P | 11-18-58 | 57 | .5 | 468 | -- | 12 | 336 | |
| 35E1 | S | Pl | 11-18-58 | 55 | .3 | 293 | -- | 30 | 268 | |
| 15/7W- 3H1 | G | Pl | 1-11-61 | -- | .1 | 220 | 180 | 40 | 392 | |
| 4K1 | Ss | P | 1-12-60 | -- | 7.5 | 361 | 10 | 62 | 336 | |
| 13B2 | Ss | P | 1-11-61 | -- | .1 | 356 | 22 | 30 | 192 | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 15/7W-13E1 | Ss | P | 12- 8-60 | -- | 5.0 | 390 | 10 | 8 | 300 |
| 14A1 | Ss | P | 1-11-61 | 56 | 1.0 | 488 | 8 | 10 | 368 |
| 18L1 | Ls | M | 1-11-61 | -- | .1 | 620 | 37 | 524 | 40 |
| 31P1 | Sh | P | 9-22-59 | -- | <.1 | 351 | 32 | 5 | 280 |
| 15/8W- 4P1 | ----- | P | 9-24-59 | 60 | .0 | 766 | 108 | 652 | 18 |
| 5J1 | S,G | P1 | 9-24-59 | -- | .1 | 366 | 33 | 4 | 304 |
| 6H1 | S,G | P1 | 9-24-59 | -- | 1.0 | 322 | 46 | 4 | 268 |
| 12F1 | Sh | P | 9-24-59 | -- | 7.5 | 727 | 17 | 4 | 464 |
| 19A1 | Ss | P | 9-25-59 | -- | .5 | 517 | 13 | 10 | 80 |
| 19R1 | ----- | P1 | 9-24-59 | -- | <.1 | 464 | 130 | 18 | 496 |
| | C | P | | | | | | | |
| 23Q1 | Sh | P | 9-25-59 | -- | .5 | 581 | 64 | 30 | 244 |
| 24N1 | G | P1 | 9-25-59 | -- | 1.5 | 561 | 13 | 4 | 344 |
| 26F1 | G | P1 | 9-25-59 | -- | 1.0 | 527 | 14 | 4 | 268 |
| 27H1 | Ss | P | 9-25-59 | -- | .3 | 517 | 14 | 6 | 188 |
| 32L1 | ----- | P | 9-24-59 | -- | .3 | 571 | 32 | 20 | 64 |
| 33L1 | Ss | P | 9-25-59 | 58 | .5 | 1,103 | 12 | 160 | 20 |
| 15/9W-13E1 | S,G | P1 | 9-24-58 | -- | .1 | 342 | 48 | 11 | 324 |
| 13P1 | S,G | P1 | 9-24-59 | -- | <.1 | 283 | 32 | 6 | 244 |
| 14H1 | S,G | P1 | 5-16-61 | -- | <.1 | 264 | 60 | 10 | 248 |
| 36R1 | S,G | P1 | 9-24-59 | -- | 2.5 | 590 | 13 | 7 | 268 |
| 16/6W- 2L1 | Ls | M | 11-20-58 | 54 | >7.5 | 727 | -- | 2 | 432 |
| 8C1 | Ss | P | 11-20-58 | -- | 2.5 | 390 | -- | 6 | 268 |
| 11F1 | Sls | M | 11-19-58 | -- | >7.5 | 952 | -- | 12 | 584 |
| 12G1 | Ls | M | 11-20-58 | 54 | 1.0 | 434 | -- | 6 | 256 |
| 12J1 | S,G | P1 | 1-60 | 54 | 5.0 | 259 | 15 | 6 | 160 |
| 18C1 | Sls? | M | 1-11-61 | 43 | 3.0 | 439 | 28 | 44 | 408 |
| 20M1 | Ss | P | 11-20-58 | -- | 5.0 | 312 | -- | 120 | 360 |
| 25P1 | Ls | M | 12- 1-60 | -- | .3 | 337 | 17 | 8 | 232 |
| 26E1 | S | P1 | 11-19-58 | -- | 7.5 | 439 | -- | 8 | 328 |
| 28P1 | Sh | M | 11-20-58 | 53 | .1 | 537 | -- | 8 | 36 |
| 31Q1 | Ls | M | 1-12-61 | 51 | .5 | 434 | 14 | 8 | 352 |
| 34N1 | ----- | P | 11-19-58 | 55 | .1 | 488 | -- | 14 | 280 |
| 35M1 | ----- | P | 1-11-61 | -- | .5 | 449 | 10 | 32 | 368 |
| 35Q1 | Ss | P | 11-19-58 | 54 | 1.0 | 317 | -- | 122 | 396 |

Table 6.--Field chemical analyses of water from wells, Parke County, Indiana--Continued

| Well | Material | Geologic age | Date of Collection | Temperature (°F) | Iron (Fe) | Bicarbonate ($HCO_3$) | Sulfate ($SO_4$) | Chloride (Cl) | Hardness as $CaCO_3$ (Calcium, magnesium) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 16/7W- 3K1 | Ss | P | 1-12-61 | -- | 1.0 | 381 | 21 | 14 | 288 | |
| 4H3 | Ss | P | 1-12-61 | -- | .1 | 566 | 21 | 10 | 8 | |
| 4K2 | G | P1 | 1-12-61 | -- | .5 | 434 | 11 | 8 | 56 | |
| 5N1 | S,G | P1 | 1-12-61 | 42 | 2.0 | 395 | 18 | 26 | 332 | |
| 6D1 | ----- | P,M | 1-12-60 | -- | .1 | 561 | 10 | 60 | 120 | |
| 6N1 | Ls | P | 1-12-61 | -- | .5 | 415 | 14 | 20 | 352 | |
| 7C1 | S,G | P1 | 1-12-61 | -- | >7.5 | 454 | 12 | 4 | 324 | |
| 12L1 | Sh | P | 1-12-61 | -- | .3 | 420 | 11 | 8 | 308 | |
| 15E1 | Ss | P | 1-12-61 | 46 | .3 | 405 | 9 | 6 | 228 | |
| 15R1 | Ss | P | 12- 2-60 | -- | 3.0 | 288 | 18 | 10 | 204 | |
| 16K1 | Ss | P | 12- 2-60 | -- | 1.5 | 459 | 9 | 10 | 324 | |
| 16L1 | G | P1 | 12- 2-60 | -- | 1.0 | 361 | 5 | 10 | 280 | |
| 17F1 | Ss | P | 1-12-61 | -- | .5 | 449 | 11 | 26 | 328 | |
| 17M1 | Ss | P | 1-12-61 | -- | .5 | 415 | 8 | 50 | 356 | |
| 19J1 | Ss | P | 12- 1-60 | -- | .5 | 664 | 13 | 12 | 48 | |
| 19N1 | C,Ls | P | 12- 1-60 | -- | .1 | 366 | 8 | 10 | 120 | |
| 20L1 | Ss | P | 12- 1-60 | 52 | .5 | 351 | 10 | 10 | 280 | |
| 21L1 | Ss | P | 12- 2-60 | -- | 5.0 | 293 | 12 | 10 | 240 | |
| 22L1 | G | P1 | 12- 1-60 | -- | .1 | 381 | 10 | 10 | 296 | |
| 23M1 | Ls? | M | 12- 2-60 | -- | 1.0 | 420 | 8 | 10 | 352 | |
| 24L1 | Ls | M | 12- 2-60 | 52 | 1.0 | 288 | 26 | 12 | 280 | |
| 24M1 | S | P1 | 12- 2-60 | 50 | .1 | 439 | 170 | 86 | 668 | |
| 25F1 | Ss | P | 12- 2-60 | 57 | 3.0 | 229 | 8 | 10 | 172 | |
| 26Q1 | S,G | P1 | 1-11-60 | 48 | .1 | 264 | 20 | 40 | 272 | |
| 29E1 | C | P | 12- 1-60 | 56 | 1.0 | 303 | 9 | 10 | 184 | |
| 29Q1 | Ss,Sh | P | 1-11-60 | -- | .1 | 532 | 11 | 24 | 184 | |
| 30F1 | Ls | P | 12- 1-60 | 52 | .1 | 688 | 9 | 14 | 18 | |
| 30G1 | S,G | P1 | 12- 1-60 | -- | .1 | 283 | 29 | 12 | 264 | |
| 30N1 | S,G | P1 | 12- 1-60 | -- | .5 | 400 | 7 | 12 | 128 | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16/7W-32H1 | Ss | P | 12- 1-60 | -- | 3.0 | 356 | 12 | 8 | 276 |
| 33D1 | Ss | P | 12- 1-60 | -- | .1 | 351 | 10 | 12 | 272 |
| 33N1 | G | P1 | 12- 1-60 | -- | 4.0 | 405 | 35 | 34 | 398 |
| 35Q1 | G | P1 | 12- 1-60 | 54 | .1 | 332 | 24 | 12 | 328 |
| 16/8W- 2M1 | G | P1 | 1-19-61 | -- | .1 | 556 | 9 | 6 | 436 |
| 7K2 | G | P1 | 1-19-61 | 49 | 5.0 | 410 | 17 | 20 | 324 |
| 7Q1 | ----- | P | 11-19-58 | -- | .1 | 956 | -- | 1,160 | 22 |
| 7Q2 | G | P1 | 11-19-58 | 55 | 7.5 | 434 | -- | 42 | 376 |
| 8N1 | ----- | P | 11-19-58 | -- | .1 | 630 | -- | 38 | 80 |
| 11A1 | Ss | P | 1-19-61 | 46 | .1 | 566 | 11 | 18 | 324 |
| 12R1 | Ls | M | 1-19-61 | -- | .1 | 703 | 9 | 100 | 24 |
| 13E3 | Ss | P | 11-20-58 | -- | .3 | 434 | -- | 22 | 472 |
| 13F1 | ----- | P | 11-19-58 | 59 | 1.0 | 473 | -- | 44 | 420 |
| 14J1 | Ls,h | P | 11-19-58 | -- | 2.0 | 517 | -- | 4 | 340 |
| 16R1 | Sh | P | 11-19-58 | -- | .0 | 693 | -- | 4 | 168 |
| 18B1 | ----- | P | 11-19-58 | 56 | .0 | 644 | -- | 36 | 16 |
| 19E1 | Sls,Ss | P | 11-17-58 | 60 | .1 | 1,290 | -- | 84 | 10 |
| 19M1 | Sd-sh | P | 5-18-61 | 57 | .1 | 434 | 48 | 12 | 156 |
| 20N1 | Ss | P | -------- | 56 | 3.0 | 434 | -- | 14 | 24 |
| 22Q1 | G | P1 | 11-17-58 | 60 | .3 | 473 | -- | 44 | 528 |
| 23K1 | Ss | P | 11-17-58 | 58 | 1.0 | 405 | -- | 10 | 272 |
| 24F1 | S,G | P1 | 11-19-58 | 52 | .3 | 468 | -- | 6 | 312 |
| 26J1 | G | P1 | 11-17-58 | 56 | 2.0 | 425 | -- | 10 | 284 |
| 34H1 | Sh,C, Ls | P | 11-17-58 | 59 | .0 | 600 | -- | 8 | 76 |
| 36G1 | G | P1 | 11-17-58 | 54 | 2.0 | 571 | -- | 12 | 352 |
| 16/9W-25H1 | S,G | P1 | 3-12-57 | 54 | <.1 | --- | -- | 24 | 384 |
| 35R2 | ----- | D | 11-17-58 | 69 | .1 | 425 | -- | 3,880 | 780 |
| 36P1 | G | P1 | 11-17-58 | 54 | .3 | 381 | -- | 6 | 396 |
| 17/6W- 5D1 | Ss | P | 10-29-58 | -- | .1 | 532 | -- | 4 | 340 |
| 6C1 | Sh | M? | 10-29-58 | -- | .3 | 532 | -- | 14 | 384 |
| 6Q1 | Sh | M? | 10-29-58 | -- | .1 | 508 | -- | 8 | 328 |
| 7B1 | Sh | M | 10-29-58 | -- | .1 | 630 | -- | 5 | 456 |
| 18A1 | Ss | M | 10-29-58 | 57 | 2.5 | 468 | -- | 8 | 388 |
| 19L1 | G | P1 | 12- 1-60 | -- | 1.5 | 434 | 10 | 10 | 324 |

Table 6.--Field chemical analyses of water from wells, Parke County, Indiana--Continued

| Well | Material | Geologic age | Date of Collection | Temperature (°F) | Iron (Fe) | Bicarbonate ($HCO_3$) | Sulfate ($SO_4$) | Chloride (Cl) | Hardness as $CaCO_3$ (Calcium, magnesium) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 17/6W-21C1 | Ss | P? | 10-29-58 | 57 | 2.0 | 434 | -- | 6 | 336 | |
| 21E1 | Ss | P | 10-29-58 | 54 | 1.0 | 298 | -- | 7 | 220 | |
| 21L1 | G | P1 | 12- 1-60 | -- | .3 | 298 | 13 | 10 | 232 | |
| 30M1 | Sh | P | 10-29-58 | -- | .1 | 420 | -- | 24 | 220 | |
| 31F1 | Ss | P | 5-18-61 | 57 | 1.0 | --- | 17 | 6 | 204 | |
| 32H1 | G | P1 | 10-29-58 | -- | .5 | 366 | -- | 12 | 300 | |
| 33C1 | Ss | P | 6-20-56 | 58 | >7.5 | 434 | 13 | 10 | 328 | |
| 17/7W- 1B1 | Ss | P? | 10-29-58 | 53 | .5 | 508 | -- | 6 | 364 | |
| 6K1 | Ss | P | 10-29-58 | -- | 2.5 | 605 | -- | 6 | 408 | |
| 7L1 | Ss | P | 10-29-58 | 55 | .5 | 429 | -- | 4 | 240 | |
| 9N1 | G | P1 | 10-29-58 | -- | .1 | 439 | -- | 10 | 344 | |
| 11E1 | ----- | P | 11-10-58 | -- | >.1 | 547 | -- | 6 | 408 | |
| 11F1 | Sh,Ss | P | 11-10-58 | -- | <.3 | 581 | -- | 34 | 628 | |
| 11M1 | G | P1 | 11-10-58 | 51 | .3 | 600 | -- | 6 | 456 | |
| | Sh | P | | | | | | | | |
| 12R2 | S,G | P1 | 11-10-58 | -- | .5 | 449 | -- | 32 | 348 | |
| 15H1 | G | P1 | 12- 1-60 | -- | .1 | 107 | 14 | 22 | 112 | |
| 17E1 | Ls | M | 5-14-58 | 55 | 2.0 | 439 | -- | 2,140 | 508 | |
| 17E2 | G | P1 | 5-28-58 | 58 | .2 | 278 | -- | 8 | 252 | |
| 17E3 | G | P1 | 4-22-59 | 54 | 3.0 | 478 | 10 | 36 | 344 | |
| 20M1 | Ls | M | 5-25-61 | 55 | .3 | 415 | 25 | 70 | 312 | |
| 23A1 | Ss | P | 10-30-58 | 55 | .5 | 439 | -- | 5 | 296 | |
| 26C1 | Ss | P | 10-30-58 | 58 | .1 | 566 | -- | 232 | 144 | |
| 26D1 | ----- | P | 10-30-58 | -- | .3 | 512 | -- | 16 | 284 | |
| 29J1 | Ss | M | 10-30-58 | -- | .1 | 390 | -- | 12 | 344 | |
| 29K1 | ----- | -- | 10-30-58 | 54 | .1 | 459 | -- | 18 | 388 | |
| 29Q1 | ----- | -- | 10-30-58 | 54 | 1.5 | 425 | -- | 250 | 252 | |
| 29Q2 | Ls | M | 1-19-61 | -- | .3 | 512 | 43 | 2,210 | 128 | |
| 30J1 | Ls | M | 10-30-58 | -- | .3 | 346 | -- | 4 | 236 | |
| 30J2 | Ls | M | 12- 1-60 | 54 | .1 | 312 | 17 | 12 | 216 | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 17/7W-31K1 | Ss | P | 1-12-61 | 48 | 7.5 | 425 | 13 | 6 | 352 |
| 32P1 | Ss | P | 10-30-58 | -- | .1 | 410 | -- | 8 | 320 |
| 33B1 | Ss | P | 10-30-58 | -- | 1.0 | 493 | -- | 6 | 368 |
| 33B2 | Ss | P | 10-30-58 | -- | 2.0 | 464 | -- | 4 | 296 |
| 34B1 | G | P1 | 10-30-58 | -- | 2.5 | 434 | -- | 6 | 296 |
| 35B1 | ----- | -- | 5-18-61 | 56 | .3 | 464 | 12 | 10 | 144 |
| 35D1 | Sh | P | 10-30-58 | -- | .3 | 586 | -- | 2 | 184 |
| 35D2 | C | P | 10-30-58 | -- | .3 | 581 | -- | 4 | 188 |
| 35E1 | Sh | P | 10-30-58 | 53 | 1.5 | 459 | -- | 6 | 292 |
| 36F1 | G | P1 | 10-29-58 | -- | 1.0 | 405 | -- | 2 | 108 |
| 17/8W- 1N1 | G | P1 | 11-30-60 | -- | 3.0 | 434 | 8 | 10 | 340 |
| 7L1 | Sh | P | 11-11-58 | 54 | .1 | 420 | -- | 10 | 308 |
| 7P1 | G | P1 | 11-11-58 | 54 | .5 | 444 | -- | 12 | 288 |
| 8N1 | ----- | P | 11-11-58 | 55 | .1 | 649 | -- | 108 | 128 |
| 9Q1 | G | P1 | 11-12-58 | 53 | .3 | 556 | -- | 6 | 300 |
| 10P1 | Ss | P | 11-21-58 | 53 | .1 | 527 | -- | 6 | 220 |
| 10Q1 | G | P1 | 11-12-58 | 54 | .5 | 600 | -- | 6 | 376 |
| 10R1 | G | P1 | 11-30-60 | -- | 3.0 | 356 | 10 | 12 | 232 |
| 11G1 | G | P1 | 11-10-58 | 54 | >3.0 | 571 | -- | 8 | 316 |
| 12B1 | Sh | P | 11-10-58 | 54 | 2.5 | 595 | -- | 6 | 400 |
| 12J1 | Sh | P | 11-10-58 | -- | 1.5 | 537 | -- | 4 | 320 |
| 12P1 | G | P1 | 11-10-58 | -- | 3.0 | 581 | -- | 7 | 356 |
| 14D1 | Sh | P | 11-12-58 | -- | .5 | 483 | -- | 6 | 236 |
| 14F1 | G | P1 | 11-12-58 | 54 | .5 | 581 | -- | 14 | 372 |
| 14F2 | S,G | P1 | 11-30-60 | -- | .1 | 429 | 12 | 10 | 312 |
| 17H1 | Sd-sh | P | 11-12-58 | -- | .5 | 605 | -- | 10 | 280 |
| 18L1 | G | P1 | 11-11-58 | 52 | .1 | 332 | -- | 6 | 264 |
| 18N2 | S | P1 | 11-11-58 | 54 | .5 | 342 | -- | 8 | 304 |
| 19R3 | S,G | P1 | 11-11-58 | -- | .1 | 434 | -- | 10 | 368 |
| 21G1 | Sh | P | 11-11-58 | 54 | .1 | 483 | -- | 2 | 264 |
| 27P1 | Sh-ss | P | 1-12-61 | -- | 4.0 | 473 | 9 | 22 | 384 |
| 32J1 | Sh | P | 11-19-58 | 54 | 1.0 | 459 | -- | 12 | 176 |
| 32M1 | S,G | P1 | 10-31-58 | 55 | 7.5 | 425 | -- | 8 | 408 |
| 34H1 | Ss,Sh | P | 10-31-58 | -- | .3 | 503 | -- | 4 | 352 |
| 17/9W- 1P1 | G | P1 | 11-13-58 | 53 | .1 | 337 | -- | 8 | 184 |
| 12J2 | Ss | P | 11-30-60 | -- | .1 | 298 | 30 | 62 | 184 |
| 13H1 | G | P1 | 11-30-60 | -- | .1 | 229 | 16 | 12 | 232 |
| 13J1 | G | P1 | 11-30-60 | -- | .1 | 210 | 17 | 10 | 200 |

Table 7.--Records of springs in Parke County, Indiana

Spring number: See text for well-numbering system.
Altitude: Altitude of land-surface datum from topographic map.
Water-bearing material: Cgl, conglomerate; G, gravel; S, sand; Ss, sandstone; T, till.
Geologic age: Pl, Pleistocene; P, Pennsylvanian.
Flow: e, estimated; m, measured.
Use: D, domestic; N, none; P, public supply; S, stock.
Field chemical analyses; In parts per million; water samples collected at date of measurement.

| Spring | Owner | Altitude (feet) | Water-bearing material | Geologic age | Flow (gpm) | Date of measurement | Use | Temperature (°F) | Field chemical analyses | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Iron (Fe) | Bicarbonate ($HCO_3$) | Sulfate ($SO_4$) | Chloride (Cl) | Hardness as $CaCO_3$ (Calcium and magnesium) | |
| 14/7W-13L1 | M. Greenlee | 570 | S,G | Pl | 4e | 5- 7-57 | N | --- | <0.1 | 224 | --- | 6 | 288 | Overlain by till. |
| 16/6W-21E1 | W. D. Gordan | 730 | T | Pl | 2e | 5-17-61 | D | 53 | < .1 | 254 | 85 | 16 | 396 | |
| 16/8W-19E2 | R. Simpson | 580 | Ss | P | 3e | 5-18-61 | S | 56 | < .1 | 288 | 75 | 12 | 312 | |
| 17/7W-29G2 | R. M. Fisher | 550 | S,G | Pl | 1e | 12- 1-60 | D | --- | .1 | 332 | 18 | 16 | 328 | Seep area. |
| 29G3 | ----do------ | 550 | S,G | Pl | 1e | 6-28-61 | N | 58 | ---- | --- | --- | -- | --- | Do |
| 29L1 | G. Lindley | 600 | T? | Pl | 10e | 10-31-58 | N | 56 | .1 | 322 | --- | 10 | 416 | At contact with Pennsylvanian sandstone. |
| 17/8W-25H1 | K. Rainwater | 500 | Ss | P | .5e | 5- 3-61 | N | 47 | .1 | 215 | 35 | 8 | 216 | |
| 25K1 | F. Heath | 500 | Ss | P | 2e | 5- 3-61 | N | 55 | .1 | 234 | 20 | 10 | 200 | |
| 36E1 | ---------- | 540 | Ss | P | 4e | 5- 3-61 | N | 49 | .1 | 39 | 17 | 8 | 32 | Fractures in sandstone. |

Table 8.--Field chemical analyses of water from streams, Parke County, Indiana
(Results in parts per million)

| Name | Location | Date of collection | Temperature (°F) | Iron (Fe) | Bicarbonate ($HCO_3$) | Sulfate ($SO_4$) | Chloride (Cl) | Hardness as $CaCO_3$ (calcium and magnesium) | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | T. 14 N., R. 6 W. | | | | | | |
| Rocky Fork Creek | NE¼NW¼ sec. 1 | 10- 4-60 | 57 | 0.4 | 210 | 12 | 10 | 156 | Sample taken at bridge on county road. |
| | | | T. 14 N., R. 7 W. | | | | | | |
| Strangers Creek | SW¼SW¼ sec. 1 | 10- 4-60 | 57 | .1 | 244 | 535 | 10 | 672 | Do |
| Raccoon Creek | NW¼NW¼ sec. 22 | 10- 4-60 | 60 | .1 | 307 | 23 | 10 | 272 | Do |
| North Branch Otter Creek | SW¼NE¼ sec. 36 | 1- 4-60 | 55 | .2 | 332 | 525 | 14 | 792 | Sample taken at ford on county road. |
| | | | T. 14 N., R. 8 W. | | | | | | |
| Weisner Creek | NW¼SE¼ sec. 11 | 10- 4-60 | 55 | .2 | 361 | 25 | 12 | 320 | Sample taken at bridge on county road. |
| Little Raccoon Creek | NW¼NW¼ sec. 13 | 10- 4-60 | 56 | .2 | 332 | 34 | 14 | 324 | Do |
| Raccoon Creek | SW¼SW¼ sec. 15 | 10- 4-60 | 55 | .1 | 239 | 95 | 54 | 304 | Do |
| | | | T. 15 N., R 6 W. | | | | | | |
| Rocky Fork Creek | SE¼NE¼ sec. 25 | 10- 4-60 | 60 | .2 | 366 | 17 | 8 | 328 | Do |
| Raccoon Creek | NW¼SE¼ sec. 28 | 10- 5-60 | 61 | .2 | 303 | 25 | 10 | 280 | Do |
| | | | T. 15 N., R. 7 W. | | | | | | |
| Sand Creek | NE¼SE¼ sec. 4 | 10- 4-60 | 56 | .2 | 195 | 490 | 10 | 584 | Do |
| Williams Creek | SW¼SE¼ sec. 17 | 10- 4-60 | 55 | .2 | 376 | 110 | 102 | 396 | Do |
| Little Raccoon Creek | NE¼NE¼ sec. 21 | 10- 4-60 | 56 | .2 | 337 | 39 | 12 | 328 | Do |

Table 8.--Field chemical analyses of water from streams, Parke County--Continued

| Name | Location | Date of collection | Temperature (°F) | Iron (Fe) | Bicarbonate ($HCO_3$) | Sulfate ($SO_4$) | Chloride (Cl) | Hardness as $CaCO_3$ (calcium and magnesium) | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | | T. 15 N., R. 8 W. | | | | | |
| Rocky Run Creek | NW¼NE¼ sec. 4 | 10- 4-60 | 56 | 0.2 | 366 | 36 | 14 | 344 | Sample taken at bridge on county road. |
| Leatherwood Creek | NW¼SW¼ sec. 5 | 10- 4-60 | 55 | .1 | 366 | 36 | 18 | 352 | Do |
| | | | | T. 15 N., R. 9 W. | | | | | |
| Raccoon Creek | NE¼SE¼ sec. 12 | 10- 4-60 | 61 | .1 | 322 | 28 | 14 | 300 | Do |
| | | | | T. 16 N., R. 6 W. | | | | | |
| South Fork | SE¼SE¼ sec. 17 | 10- 4-60 | 65 | .2 | 322 | 38 | 14 | 320 | Do |
| Raccoon Creek | SE¼SE¼ sec. 36 | 10- 4-60 | 64 | .2 | 342 | 30 | 12 | 304 | Do |
| | | | | T. 16 N., R. 7 W. | | | | | |
| Little Raccoon Creek | NW¼SE¼ sec. 24 | 10- 4-60 | 65 | .2 | 346 | 33 | 12 | 328 | Do |
| | | | | T. 16 N., R. 8 W. | | | | | |
| Sugar Creek | SW¼SE¼ sec. 6 | 10- 4-60 | 64 | .2 | 307 | 42 | 20 | 292 | Do |
| Leatherwood Creek | SE¼NE¼ sec. 13 | 10- 4-60 | 58 | .2 | 342 | 70 | 14 | 316 | Do |
| | | | | T. 16 N., R. 9 W. | | | | | |
| Wabash River | SE¼NE¼ sec. 35 | 10- 3-60 | 65 | .2 | 254 | 49 | 24 | 280 | Sample taken at bridge on federal highway. |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | T. 17 N., R. 6 W. | | | | | |
| Sugar Creek | NW¼SW¼ sec. 8 | 10- 4-60 | 64 | 0.1 | 298 | 43 | 26 | 304 | Sample taken at bridge on county road. |
| | | | | T. 17 N., R. 7 W. | | | | | |
| Green Creek | NW¼NW¼ sec. 20 | 10- 4-60 | 66 | .1 | 366 | 32 | 16 | 352 | Sample taken at bridge on county road |
| Mill Creek | NE¼NE¼ sec. 21 | 10- 4-60 | 62 | .2 | 332 | 26 | 12 | 312 | Do |
| Roaring Creek | SW¼SW¼ sec. 29 | 10- 4-60 | 61 | .1 | 317 | 41 | 20 | 316 | Do |
| Sugar Creek | SE¼SE¼ sec. 29 | 10- 4-60 | 59 | .2 | 283 | 45 | 24 | 272 | Do |
| | | | | T. 17 N., R. 8 W. | | | | | |
| Mill Creek | SE¼SE¼ sec. 18 | 10- 4-60 | 61 | .1 | 342 | 33 | 22 | 344 | Do |
| Rush Creek | SW¼SE¼ sec. 28 | 10- 4-60 | 59 | .1 | 356 | 28 | 18 | 344 | Do |
| | | | | T. 17 N., R. 9 W. | | | | | |
| Coal Creek | NW¼SE¼ sec. 2 | 10- 3-60 | 61 | .1 | 322 | 34 | 12 | 328 | Do |
| Wabash River | NW¼NE¼ sec. 3 | 10- 3-60 | 65 | .2 | 239 | 54 | 20 | 256 | Sample taken at bridge on state highway. |

Table 9.--Water levels in observation wells in Parke County, Indiana
(In feet below land-surface datum, except as noted.
Water level: e, estimated; h, tape measurement)

Parke 1. (15/8W-3Q1). Donald C. Stutler. Rockville. SW¼SE¼ sec. 3, T. 15 N., R. 8 W. Dug artesian well in glacial drift, diameter 42 inches, depth 19 feet. Land-surface datum is about 665 above msl. Highest water level is 2.38 below lsd, June 21, 1945; lowest, 8.47 below lsd, Sept. 20, 1945. Records available: 1945 to 1950.

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---|---|---|---|---|---|---|---|
| 1945 | | Mar. 7 | 3.10 | 1947 | | Nov. 6 | 5.14 |
| | | 14 | 3.07 | | | 20 | 5.15 |
| June 14 | 2.71 | 21 | 3.02 | Jan. 1 | 5.22 | 27 | 4.95 |
| 21 | 2.38 | 28 | 3.02 | 9 | 5.08 | Dec. 4 | 4.80 |
| 28 | 3.56 | Apr. 4 | 3.10 | 16 | 4.90 | 11 | 4.82 |
| July 5 | 3.94 | 11 | 3.10 | 23 | 4.86 | 18 | 4.90 |
| 12 | 4.49 | 18 | 3.29 | 30 | 4.72 | 25 | 4.90 |
| 19 | 4.87 | 25 | 3.00 | Feb. 6 | 4.65 | | |
| 22 | 5.24 | May 2 | 3.42 | 13 | 4.03 | 1948 | |
| Aug. 2 | 5.00 | 9 | 3.20 | 20 | 4.06 | | |
| 9 | 5.29 | 16 | 3.12 | 27 | 4.10 | Jan. 1 | 4.85 |
| 17 | 5.28 | 23 | 3.06 | Mar. 6 | 4.16 | 8 | 4.95 |
| 23 | 6.14 | 30 | 2.86 | 13 | 4.32 | 15 | 5.00 |
| 30 | 7.00 | June 6 | 3.06 | 20 | 3.98 | 22 | 5.10 |
| Sept. 6 | 7.77 | 13 | 3.10 | 27 | 3.95 | 29 | 5.14 |
| 13 | 7.91 | 20 | 3.12 | Apr. 3 | 3.87 | Feb. 5 | 5.22 |
| 20 | 8.47 | 27 | 3.70 | 10 | 3.86 | 12 | 5.30 |
| 27 | 8.02 | July 4 | 3.78 | 24 | 3.80 | 19 | 5.02 |
| Oct. 4 | 5.23 | 11 | 5.61 | May 1 | 3.78 | 26 | 4.90 |
| 11 | 5.93 | 18 | 5.00 | 8 | 3.63 | Mar. 4 | 4.95 |
| 18 | 6.51 | 25 | 5.60 | 15 | 3.55 | 11 | 4.87 |
| 25 | 4.15 | Aug. 1 | 5.69 | 22 | 3.50 | 18 | 4.77 |
| Nov. 1 | 4.99 | 8 | 5.83 | 29 | 3.45 | 25 | 4.55 |
| 8 | 4.38 | 15 | 5.94 | June 5 | 3.53 | Apr. 7 | 4.65 |
| 15 | 3.75 | 22 | 6.13 | 12 | 3.50 | 14 | 4.80 |
| 22 | 3.15 | 29 | 6.45 | 20 | 3.75 | 21 | 5.05 |
| 29 | 2.55 | Sept. 5 | 6.58 | 27 | 4.00 | 28 | 5.20 |
| Dec. 6 | 3.15 | 12 | 6.64 | July 3 | 4.50 | May 6 | 5.12 |
| 13 | 3.45 | 19 | 6.92 | 10 | 4.65 | 13 | 5.10 |
| 20 | 3.75 | 26 | 6.94 | 17 | 4.74 | 20 | 5.35 |
| 27 | 3.35 | Oct. 3 | 7.40 | 24 | 4.85 | 27 | 5.35 |
| | | 10 | 7.48 | Aug. 8 | 5.10 | June 3 | 5.42 |
| 1946 | | 17 | 7.10 | 15 | 5.50 | 10 | 5.35 |
| | | 24 | 7.07 | 22 | 5.80 | 17 | 5.28 |
| Jan. 3 | 3.15 | 31 | 6.92 | Sept. 4 | 5.81 | 24 | 5.14 |
| 10 | 2.96 | Nov. 7 | 6.55 | 11 | 5.50 | July 1 | 4.98 |
| 17 | 3.00 | 14 | 6.16 | 18 | 5.10 | 8 | 5.05 |
| 24 | 3.10 | 21 | 5.78 | 25 | 5.43 | 15 | 5.02 |
| 31 | 3.25 | 28 | 5.65 | Oct. 2 | 5.35 | 22 | 5.05 |
| Feb. 7 | 3.29 | Dec. 5 | 5.43 | 9 | 5.08 | 29 | 5.10 |
| 14 | 3.30 | 12 | 5.30 | 16 | 5.20 | Aug. 7 | 4.95 |
| 21 | 3.15 | 26 | 5.13 | 23 | 5.28 | 12 | 5.11 |
| 28 | 3.12 | | | 30 | 5.22 | 19 | 5.24 |

Table 9.--Water levels in observation wells in Parke County--Continued

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---|---|---|---|---|---|---|---|
| 1948 | | 1949 | | May 6 | 5.06 | Oct. 6 | 5.50 |
| | | | | 13 | 5.18 | 13 | 5.10 |
| Aug. 26 | 5.45 | Jan. 6 | 4.78 | 20 | 5.23 | 20 | 4.60 |
| Sept. 2 | 5.25 | 13 | 4.78 | 26 | 5.20 | 27 | 4.30 |
| 9 | 5.37 | 20 | 4.72 | June 2 | 5.26 | Nov. 3 | 4.88 |
| 16 | 5.46 | 27 | 4.60 | 9 | 5.32 | 10 | 5.00 |
| 30 | 5.18 | Feb. 3 | 4.82 | 16 | 5.08 | 17 | 5.02 |
| Oct. 7 | 5.32 | 10 | 4.86 | 23 | 5.14 | Dec. 1 | 5.16 |
| 14 | 5.38 | 17 | 4.78 | 30 | 5.30 | 8 | 5.18 |
| 21 | 5.16 | 24 | 4.72 | July 7 | 5.34 | 15 | 5.12 |
| 28 | 5.01 | Mar. 3 | 4.80 | 14 | 5.32 | 22 | 5.04 |
| Nov. 4 | 4.92 | 10 | 4.88 | 21 | 5.44 | 29 | 4.88 |
| 18 | 4.83 | 17 | 4.92 | Aug. 4 | 5.30 | | |
| 25 | 4.78 | 24 | 4.97 | 11 | 5.08 | 1950 | |
| Dec. 2 | 4.85 | 31 | 4.98 | 18 | 5.22 | | |
| 9 | 4.94 | Apr. 7 | 5.06 | 25 | 5.28 | Jan. 5 | 4.78 |
| 16 | 5.10 | 14 | 5.21 | Sept. 1 | 5.52 | 12 | 4.60 |
| 23 | 4.98 | 21 | 5.22 | 8 | 5.64 | 19 | 4.50 |
| 30 | 4.85 | 28 | 5.10 | 22 | 5.88 | July 14 | 3.84 |
| | | | | 29 | 6.02 | | |

Parke 2. (14/8W-1J1). Ohio Oil Co. Catlin. NE¼SE¼ sec. 1, T. 14 N., R. 8 W. Drilled unused artesian (?) well in sand and gravel, diameter 8 to 6 inches, depth 36.5 feet. Land-surface datum is 532.0 feet above msl. Recording gage installed Feb. 5, 1957. Highest water level is 1.4 above lsd, Feb. 5, 6, 1960; lowest, 8.3 below lsd, Dec. 22, 30, 1960. Records available: 1957 to 1960.

(Daily highest water level from recorder graph, 1957)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ---- | ---- | 3.6 | 1.3 | 2.7 | ---- | ---- | 5.2 | 6.3 | 7.0 | 6.9 | 6.2 |
| 2 | ---- | ---- | 3.7 | 1.3 | 2.9 | ---- | ---- | 5.3 | 6.3 | 7.1 | 6.9 | 6.3 |
| 3 | ---- | ---- | 4.4 | 0.1 | 3.4 | ---- | ---- | 5.3 | 6.4 | 7.1 | 6.9 | 6.2 |
| 4 | ---- | ---- | 4.7 | 0.1 | 3.9 | ---- | h1.9 | 5.3 | 6.4 | 7.1 | 7.0 | 6.3 |
| 5 | ---- | ---- | 4.9 | 0.3 | 4.3 | ---- | ---- | 5.4 | 6.5 | 7.1 | 7.0 | 6.3 |
| 6 | ---- | 6 61 | 5.2 | 0.7 | 4.6 | ---- | ---- | 5.5 | 6.5 | 7.1 | 7.0 | 4.0 |
| 7 | ---- | 6.56 | 5.4 | 0.8 | 4.7 | ---- | ---- | 5.5 | 6.5 | 7.1 | 6.9 | ---- |
| 8 | ---- | 6.04 | 6.0 | 0.4 | 4.8 | ---- | 2.7 | 5.5 | 6.6 | 7.1 | 7.0 | ---- |
| 9 | ---- | 3.76 | ---- | 0.7 | 4.9 | ---- | 3.8 | 5.6 | 6.6 | 7.2 | 7.0 | ---- |
| 10 | ---- | 2.87 | ---- | 1.0 | 5.0 | ---- | 4.0 | 5.6 | 6.6 | 7.2 | 7.0 | e3.2 |
| 11 | ---- | 2.80 | ---- | 1.3 | 5.0 | ---- | 4.2 | 5.7 | 6.6 | 7.2 | 7.0 | 4.[illegible] |
| 12 | ---- | 2.89 | ---- | 1.5 | 2.4 | ---- | 4.2 | 5.7 | 6.6 | 7.2 | ---- | 4.[illegible] |
| 13 | ---- | 3.39 | ---- | 1.7 | 2.2 | ---- | 2.5 | 5.8 | 6.7 | 7.2 | ---- | 4.3 |
| 14 | ---- | 4.08 | ---- | 1.9 | 2.2 | ---- | 2.3 | 5.8 | 6.7 | 7.2 | ---- | 5.5 |
| 15 | ---- | 4.35 | 5.0 | 2.0 | 2.4 | ---- | 2.3 | 5.8 | 6.7 | 7.2 | ---- | 5.7 |
| 16 | ---- | 4.78 | 5.1 | 1.7 | 2.7 | ---- | 2.4 | 5.9 | 6.8 | 7.2 | ---- | 0.3 |
| 17 | ---- | 5.29 | 5.3 | 1.3 | 2.8 | ---- | 2.3 | 5.9 | 6.8 | 7.2 | ---- | 3.3 |

Table 9.--Water levels in observation wells in Parke County--Continued

(Daily highest water level from recorder graph, 1957)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18 | ---- | ---- | 4.3 | 1.6 | 2.1 | h1.8 | 2.3 | 6.0 | 6.8 | 7.3 | ---- | 0.1 |
| 19 | ---- | ---- | 4.3 | 1.7 | 0.2 | ---- | 2.5 | 6.0 | 6.8 | 7.3 | ---- | 0.0 |
| 20 | ---- | ---- | 4.5 | 0.4 | 0.2 | ---- | 2.7 | 6.0 | 6.8 | 7.3 | ---- | 0.1 |
| 21 | ---- | ---- | 4.7 | 0.5 | 0.3 | ---- | 3.7 | 6.1 | 6.8 | 7.3 | ---- | 0.8 |
| 22 | ---- | ---- | 4.7 | 1.3 | 0.4 | ---- | 3.4 | 6.2 | 6.9 | 7.0 | ---- | 1.2 |
| 23 | ---- | ---- | 4.8 | 1.3 | 0.2 | ---- | 3.2 | 6.1 | 6.9 | 6.4 | ---- | 1.4 |
| 24 | ---- | ---- | 4.9 | 1.7 | e0.2 | h3.0 | 3.7 | 6.1 | 6.9 | 6.5 | ---- | 1.6 |
| 25 | ---- | ---- | 1.8 | 2.0 | ---- | ---- | 4.7 | 6.2 | 6.9 | 6.6 | ---- | 0.0 |
| 26 | ---- | ---- | 1.9 | 1.9 | ---- | ---- | 4.8 | 6.3 | 7.0 | 6.7 | 5.4 | ---- |
| 27 | ---- | ---- | 2.4 | 1.9 | ---- | ---- | 4.9 | 6.2 | 7.0 | 6.7 | 5.5 | 0.7 |
| 28 | ---- | ---- | 2.6 | 2.1 | ---- | ---- | 5.0 | 6.2 | 7.0 | 6.7 | 5.8 | 1.0 |
| 29 | ---- | ---- | 2.5 | 2.2 | ---- | ---- | 5.0 | 6.2 | 7.0 | 6.7 | 6.0 | 1.2 |
| 30 | ---- | ---- | 2.7 | 2.5 | ---- | ---- | 5.1 | 6.3 | 7.0 | 6.7 | 6.2 | 1.4 |
| 31 | ---- | ---- | 2.9 | ---- | ---- | ---- | 5.2 | 6.3 | ---- | 6.9 | ---- | 1.1 |

(Daily highest water level from recorder graph, 1958)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.5 | 2.2 | ---- | 3.2 | 2.5 | 6.6 | 5.0 | 0.4 | 5.1 | 3.3 | 6.1 | 1.2 |
| 2 | 1.8 | 2.5 | ---- | 3.4 | 2.6 | 6.7 | 5.4 | 1.0 | 5.1 | 3.5 | 6.1 | 1.1 |
| 3 | 2.2 | 2.7 | ---- | 3.8 | 0.3 | 6.7 | 5.5 | 1.2 | 5.0 | 3.9 | 6.2 | 0.7 |
| 4 | 2.4 | 3.4 | ---- | 3.8 | 0.3 | 6.7 | 5.5 | 1.6 | 5.1 | 4.4 | 6.2 | 0.7 |
| 5 | 2.6 | ---- | ---- | 2.3 | 1.6 | 6.7 | 5.6 | 2.0 | 5.2 | 4.8 | 6.2 | 1.0 |
| 6 | 2.6 | ---- | h6.2 | 2.1 | 1.7 | 6.8 | 5.7 | 2.3 | 2.5 | 5.3 | 6.4 | 1.4 |
| 7 | 2.7 | ---- | ---- | 2.1 | 2.1 | 6.7 | 5.8 | 2.5 | 2.3 | 5.4 | 6.3 | 1.7 |
| 8 | 3.1 | ---- | ---- | 2.5 | 2.3 | 6.7 | 5.8 | 2.4 | 2.3 | 5.4 | 6.3 | 1.9 |
| 9 | 3.5 | ---- | ---- | 2.5 | 2.4 | 6.6 | 5.9 | 2.6 | 2.4 | 5.2 | 6.3 | 2.0 |
| 10 | 3.7 | ---- | 3.8 | 2.6 | 2.6 | 0.0 | 5.9 | 3.2 | 2.5 | 1.9 | 6.4 | 2.3 |
| 11 | 4.0 | ---- | 4.1 | 2.6 | 2.8 | 0.5 | 5.6 | 4.1 | 2.8 | 2.0 | 6.5 | 2.4 |
| 12 | 3.9 | ---- | 3.8 | 2.7 | 3.9 | 1.7 | 5.5 | ---- | 4.2 | 2.3 | 6.5 | 2.5 |
| 13 | 3.9 | ---- | 3.8 | 3.6 | 2.8 | 1.7 | 5.0 | 0.2 | 5.2 | 2.5 | 6.5 | 2.7 |
| 14 | 4.1 | ---- | 4.7 | 4.0 | 5.2 | 1.6 | 4.5 | 1.2 | 5.4 | 2.6 | 6.5 | 2.8 |
| 15 | 3.8 | ---- | 4.9 | 4.4 | 5.8 | 1.9 | 2.4 | +0.4 | 5.4 | 2.7 | 6.3 | 3.5 |
| 16 | 3.5 | ---- | 4.9 | 5.0 | 6.1 | 2.2 | 2.3 | 0.5 | +0.1 | 3.8 | 1.6 | 4.2 |
| 17 | 3.3 | ---- | 5.5 | 5.3 | 6.1 | 2.6 | 2.6 | 0.1 | +0.2 | 4.5 | 0.2 | 4.7 |
| 18 | 3.3 | ---- | 5.8 | 5.6 | 6.1 | 2.7 | 3.3 | 0.3 | 0.4 | 5.5 | 0.8 | 5.6 |
| 19 | 3.2 | ---- | 6.2 | 6.1 | 6.2 | 2.2 | 4.3 | 1.0 | 0.9 | 5.6 | 1.2 | 5.6 |
| 20 | 0.8 | ---- | 6.3 | 4.5 | 6.3 | 2.2 | 3.1 | 1.4 | 1.1 | 5.6 | 1.4 | 5.7 |
| 21 | 0.2 | ---- | 6.3 | 2.7 | 6.3 | 2.3 | 3.2 | 1.7 | 1.2 | 5.7 | 1.5 | 5.8 |
| 22 | 1.5 | ---- | 6.4 | 2.6 | 6.3 | 2.5 | 3.9 | 1.9 | 1.5 | 5.7 | 1.6 | 5.8 |
| 23 | 1.8 | ---- | 6.4 | 2.3 | 6.4 | 2.2 | 4.3 | 2.2 | 1.8 | 5.8 | 1.8 | 5.8 |
| 24 | 1.7 | ---- | 2.0 | 2.3 | 6.4 | 2.4 | 5.1 | 2.3 | 1.9 | 5.8 | 1.8 | 5.8 |
| 25 | 1.8 | 6.0 | 2.0 | 2.7 | 6.4 | 1.6 | 5.7 | 2.6 | 2.1 | 5.9 | 0.1 | 5.9 |
| 26 | 1.9 | 6.0 | 2.3 | 3.3 | 6.5 | 1.7 | 5.8 | 3.0 | 2.3 | 5.9 | 0.3 | 6.0 |
| 27 | 2.0 | 5.9 | 2.5 | 2.7 | 6.5 | 2.2 | 5.9 | 3.9 | 2.4 | 6.0 | 0.9 | 6.0 |
| 28 | 2.1 | 6.1 | 2.6 | 2.4 | 6.5 | 2.6 | 5.6 | 4.5 | 2.5 | 6.0 | 1.0 | 6.0 |

Table 9.--Water levels in observation wells in Parke County--Continued

(Daily highest water level from recorder graph, 1958)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 29 | 2.2 | ---- | 2.7 | 2.2 | 6.6 | 3.5 | 5.6 | 4.8 | 2.7 | 6.1 | 1.2 | 6.0 |
| 30 | 2.2 | ---- | 2.7 | 2.4 | 6.6 | 4.3 | 5.2 | 4.9 | 2.8 | 6.1 | 1.3 | 6.1 |
| 31 | 2.2 | ---- | 2.7 | ---- | 6.6 | ---- | +0.2 | 5.0 | ---- | 6.1 | ---- | 6.0 |

(Daily highest water level from recorder graph, 1959)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.1 | 2.8 | 0.4 | 0.2 | 1.4 | ---- | 4.6 | 5.1 | 5.7 | 6.0 | 5.9 | 5.7 |
| 2 | 3.3 | 2.7 | 0.5 | 0.2 | 1.6 | ---- | 4.7 | 5.1 | 5.6 | 6.0 | 5.9 | 5.7 |
| 3 | 3.2 | 2.7 | 0.7 | 0.4 | 1.8 | ---- | 4.6 | 5.1 | 5.7 | 6.0 | 5.9 | 5.7 |
| 4 | 3.4 | 2.7 | 0.8 | 0.8 | 1.9 | ---- | 4.6 | 5.2 | 5.7 | 6.0 | 5.6 | 5.7 |
| 5 | 4.2 | 2.8 | 0.2 | 0.9 | 2.2 | ---- | 4.6 | 5.2 | 5.7 | 6.0 | 5.6 | 5.7 |
| 6 | 4.2 | 2.9 | 0.2 | 1.1 | 2.3 | ---- | 4.7 | 5.2 | 5.7 | 6.0 | 5.7 | 5.7 |
| 7 | 4.5 | 2.8 | 0.2 | 1.1 | 2.5 | ---- | 4.8 | 5.2 | 5.7 | 6.0 | 5.8 | 5.7 |
| 8 | 5.6 | 2.7 | 0.3 | 1.0 | 2.7 | ---- | 4.8 | 5.2 | 5.7 | 6.0 | 5.8 | 5.7 |
| 9 | 6.3 | 0.2 | 0.3 | 1.1 | 2.8 | 4.1 | 4.8 | 5.3 | 5.7 | 6.1 | 5.8 | 5.8 |
| 10 | 6.3 | 0.2 | 0.3 | 1.0 | 2.7 | 4.1 | 4.8 | 5.3 | 5.7 | 6.0 | 5.7 | 5.7 |
| 11 | 6.3 | 0.2 | 0.4 | 1.1 | 2.3 | 4.1 | 4.8 | 5.3 | 5.8 | 5.8 | 5.8 | 5.3 |
| 12 | 6.3 | 0.2 | 0.2 | 1.3 | 2.2 | 4.0 | 4.9 | 5.4 | 5.8 | 5.9 | 5.8 | 0.8 |
| 13 | 6.3 | 0.3 | 0.1 | 1.5 | 2.2 | 4.1 | 4.9 | 5.4 | 5.8 | 5.9 | 5.5 | 0.8 |
| 14 | 5.6 | 0.1 | 0.1 | 1.6 | 2.4 | 4.2 | 4.9 | 5.4 | 5.7 | 5.9 | 5.3 | 1.1 |
| 15 | 4.2 | 0.1 | 0.1 | 1.7 | 2.6 | 4.2 | 4.9 | 5.4 | 5.7 | 5.9 | 5.2 | 1.2 |
| 16 | 4.0 | e0.1 | 0.4 | 1.9 | 2.7 | 4.2 | 4.9 | 5.3 | 5.8 | 5.9 | 5.2 | 1.8 |
| 17 | 4.3 | 0.1 | 0.6 | 2.0 | ---- | 4.2 | 4.9 | 5.3 | 5.9 | 5.9 | 5.3 | 2.2 |
| 18 | 5.6 | ---- | 0.7 | 1.7 | ---- | 4.3 | 4.9 | 5.4 | 5.9 | 6.0 | 5.3 | 2.3 |
| 19 | 5.7 | ---- | 0.8 | 0.2 | ---- | 4.3 | 4.9 | 5.4 | 5.9 | 6.0 | 5.3 | 3.0 |
| 20 | 3.2 | ---- | 0.9 | 0.3 | ---- | 4.3 | 5.0 | 5.4 | 5.9 | 6.0 | 5.4 | 3.3 |
| 21 | 2.7 | ---- | 0.9 | 0.8 | ---- | 4.3 | 5.0 | 5.4 | 5.9 | 6.0 | 5.4 | 3.3 |
| 22 | 2.9 | ---- | 1.0 | 1.1 | ---- | 4.3 | 5.0 | 5.5 | 5.9 | 6.0 | 5.4 | 3.8 |
| 23 | 2.9 | ---- | 1.0 | 1.4 | ---- | 4.4 | 5.1 | 5.5 | 5.9 | 5.9 | 5.5 | 4.1 |
| 24 | 2.9 | ---- | 1.1 | 1.6 | ---- | 4.4 | 5.0 | 5.5 | 5.9 | 5.8 | 5.4 | 4.7 |
| 25 | 2.8 | ---- | 1.1 | 1.7 | ---- | 4.4 | 5.1 | 5.5 | 5.9 | 5.8 | 5.5 | 5.0 |
| 26 | 2.8 | ---- | 0.4 | 1.9 | ---- | 4.4 | 5.1 | 5.5 | 5.9 | 5.9 | 5.6 | 5.0 |
| 27 | 2.8 | 0.2 | 0.5 | 1.2 | ---- | 4.5 | 5.0 | 5.5 | 5.9 | 5.9 | 5.6 | 2.5 |
| 28 | 2.8 | 0.4 | 1.0 | 0.3 | ---- | 4.5 | 5.0 | 5.6 | e5.9 | 6.0 | 5.7 | 1.4 |
| 29 | 2.7 | ---- | 0.8 | 0.6 | ---- | 4.5 | 5.1 | 5.6 | ---- | 5.9 | 5.7 | 1.2 |
| 30 | 2.8 | ---- | 0.6 | 1.1 | ---- | 4 6 | 5.1 | 5.6 | e6.0 | 6.0 | 5.6 | 1.2 |
| 31 | 2.8 | ---- | 0.6 | ---- | ---- | ---- | 5.1 | ---- | ---- | 5.9 | ---- | 1.7 |

(Daily highest water level from recorder graph, 1960)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.8 | 0.7 | 2.6 | ---- | 3.9 | 1.1 | 1.9 | 5.9 | 6.9 | 7.6 | 7.9 | 8.2 |
| 2 | 1.8 | 0.8 | 2.5 | ---- | 3.5 | 1.3 | 2.1 | 5.9 | 7.0 | 7.6 | 8.0 | 8.2 |
| 3 | 1.4 | 0.9 | 2.5 | ---- | 3.5 | 1.6 | 2.3 | 6.0 | 7.0 | 7.6 | 8.1 | 8.2 |
| 4 | 1.8 | 0.7 | 2.8 | ---- | 4.0 | 2.0 | 2.6 | 6.0 | 7.0 | 7.7 | 8.1 | 8.2 |
| 5 | 2.2 | +1.4 | 2.8 | ---- | 4.4 | 2.3 | 3.0 | 6.1 | 7.0 | 7.6 | 8.1 | 8.2 |
| 6 | 2.5 | +1.4 | ---- | ---- | 3.0 | 2.6 | 3.5 | 6.2 | 7.1 | 7.6 | 8.0 | 8.2 |
| 7 | 2.9 | +0.8 | ---- | ---- | 2.5 | 3.1 | 3.9 | 6.2 | 7.1 | 7.7 | 8.1 | 8.2 |
| 8 | 3.5 | +1.3 | ---- | ---- | 2.4 | 3.3 | 4.2 | 6.2 | 7.1 | 7.7 | 8.1 | 8.2 |

Table 9.--Water levels in observation wells in Parke County--Continued

(Daily highest water level from recorder graph, 1960)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 4.0 | ---- | ---- | ---- | 2.0 | 4.2 | 4.7 | 6.3 | 7.1 | 7.7 | 8.1 | 8.2 |
| 10 | 4.2 | ---- | ---- | ---- | 1.7 | 5.1 | 4.9 | 6.3 | 7.2 | 7.8 | 8.1 | 8.2 |
| 11 | 4.6 | ---- | ---- | ---- | 1.7 | 5.5 | 4.9 | 6.3 | 7.2 | 7.8 | 8.1 | 8.2 |
| 12 | 1.0 | ---- | ---- | ---- | 1.8 | 5.6 | 4.9 | 6.4 | 7.2 | 7.8 | 8.1 | 8.2 |
| 13 | 0.5 | ---- | ---- | 2.4 | 1.9 | ---- | 5.0 | 6.4 | 7.2 | 7.8 | 8.1 | 8.2 |
| 14 | +0.6 | ---- | ---- | 2.5 | 2.2 | ---- | 5.0 | 6.4 | 7.3 | 7.8 | 8.1 | 8.2 |
| 15 | +0.8 | ---- | ---- | 2.6 | 2.5 | ---- | 5.0 | 6.5 | 7.3 | 7.8 | 8.0 | 8.2 |
| 16 | +0.8 | 1.5 | 2.7 | 2.7 | 2.6 | 5.7 | 5.1 | 6.5 | 7.3 | 7.8 | 8.0 | 8.2 |
| 17 | +0.7 | 1.5 | 2.7 | 2.7 | 2.6 | 5.7 | 5.1 | 6.5 | 7.4 | 7.8 | 8.1 | 8.2 |
| 18 | +1.0 | 1.6 | 2.1 | 2.7 | 2.7 | 5.9 | 5.2 | 6.5 | 7.4 | 7.9 | 8.1 | 8.2 |
| 19 | +0.8 | 1.8 | 1.2 | 2.7 | 2.8 | 5.9 | 5.2 | 6.6 | 7.4 | 7.8 | 8.1 | 8.2 |
| 20 | ---- | 2.3 | 1.1 | 2.7 | 2.8 | 5.9 | 5.3 | 6.6 | 7.4 | 7.9 | 8.1 | 8.2 |
| 21 | -0.7 | 2.4 | 1.1 | 2.9 | 2.5 | 2.6 | 5.4 | 6.6 | 7.4 | 7.9 | 8.1 | 8.2 |
| 22 | 1.2 | 2.6 | 1.1 | 3.4 | 2.0 | 0.8 | 5.4 | 6.7 | 7.4 | 7.8 | 8.1 | 8.3 |
| 23 | 1.7 | 2.7 | 1.1 | 3.7 | 2.0 | 0.0 | 5.5 | 6.7 | 7.4 | 7.8 | 8.2 | ---- |
| 24 | 2.1 | 2.5 | 1.1 | 4.2 | 2.3 | 0.1 | 5.5 | 6.8 | 7.4 | 7.9 | 8.2 | ---- |
| 25 | 2.3 | 2.4 | 1.1 | 4.5 | 1.2 | 0.6 | 5.6 | 6.8 | 7.5 | 7.9 | 8.2 | ---- |
| 26 | 3.2 | 2.5 | 1.1 | 5.0 | 1.2 | 1.1 | 5.7 | 6.8 | 7.5 | 7.9 | 8.2 | ---- |
| 27 | 0.5 | 2.5 | 1.0 | 5.7 | 1.3 | 1.5 | 5.7 | 6.8 | 7.5 | 7.9 | 8.2 | ---- |
| 28 | 0.5 | 2.5 | 0.8 | 5.9 | 1.5 | 1.5 | 5.7 | 6.9 | 7.5 | 7.9 | 8.1 | ---- |
| 29 | 0.6 | 2.5 | ---- | 5.9 | 0.1 | 1.6 | 5.7 | 6.9 | 7.5 | 7.9 | 8.1 | ---- |
| 30 | 0.6 | ---- | ---- | 4.8 | 0.2 | 1.9 | 5.7 | 6.9 | 7.5 | 7.9 | 8.2 | 8.3 |
| 31 | 0.7 | ---- | ---- | ---- | 0.9 | ---- | 5.9 | 6.9 | ---- | 7.9 | ---- | 8.2 |

Parke 3. (16/9W-25N1). F. T. Moore. Montezuma. SW¼SW¼ sec. 25, T. 16 N., R. 9 W. Drilled unused artesian well in sand and gravel, diameter 12 to 10 inches, depth 124 feet. Land-surface datum is 514.3 feet above msl. Recording gage installed July 15, 1957. Highest water level is 36.55 below lsd, Aug. 10-12, 1958; lowest, 49.18 below lsd, Dec. 31, 1960. Records available: 1957 to 1960. Affected by fluctuations in barometric pressure and river stage.

(Daily highest water level from recorder graph, 1957)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 38.83 | 40.91 | 43.02 | 44.71 | 45.42 |
| 2 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 38.89 | 40.97 | 43.11 | 44.73 | 45.46 |
| 3 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 38.94 | 41.03 | 43.17 | 44.77 | 45.45 |
| 4 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 38.99 | 41.11 | 43.24 | 44.83 | 45.52 |
| 5 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 39.07 | 41.22 | 43.31 | 44.86 | 45.52 |
| 6 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 39.12 | 41.30 | 41.38 | 44.92 | 45.52 |
| 7 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 41.36 | 43.43 | 44.91 | 45.53 |
| 8 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 39.21 | 41.44 | 43.50 | 44.91 | 45.62 |
| 9 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 39.26 | 41.51 | 43.58 | 45.04 | ---- |
| 10 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 39.30 | 41.59 | 43.64 | 45.12 | 45.54 |
| 11 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 39.37 | 41.69 | 43.71 | 45.16 | 45.57 |
| 12 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 39.46 | 41.74 | 43.77 | 45.17 | 45.50 |
| 13 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 39.53 | 41.82 | 43.83 | 45.18 | 45.48 |

Table 9.--Water levels in observation wells in Parke County--Continued

(Daily highest water level from recorder graph, 1957)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 39.59 | 41.92 | 43.89 | 45.15 | 45.48 |
| 15 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 39.66 | 41.96 | 43.93 | 45.25 | 45.47 |
| 16 | ---- | ---- | ---- | ---- | ---- | ---- | 38.64 | 39.72 | 42.04 | 44.02 | 45.27 | 45.49 |
| 17 | ---- | ---- | ---- | ---- | ---- | ---- | 38.62 | 39.80 | 42.14 | 44.08 | 45.25 | 45.46 |
| 18 | ---- | ---- | ---- | ---- | ---- | ---- | 38.61 | 39.87 | 42.21 | 44.17 | 45.18 | 45.41 |
| 19 | ---- | ---- | ---- | ---- | ---- | ---- | 38.59 | 39.93 | 42.27 | 44.23 | 45.26 | 45.35 |
| 20 | ---- | ---- | ---- | ---- | ---- | ---- | 38.58 | 40.00 | 42.35 | 44.30 | 45.28 | 45.31 |
| 21 | ---- | ---- | ---- | ---- | ---- | ---- | 38.58 | 40.09 | 42.43 | 44.35 | ---- | 45.09 |
| 22 | ---- | ---- | ---- | ---- | ---- | ---- | 38.57 | 40.18 | 42.51 | 44.40 | ---- | 44.73 |
| 23 | ---- | ---- | ---- | ---- | ---- | ---- | 38.60 | 40.24 | 42.58 | 44.43 | ---- | 44.39 |
| 24 | ---- | ---- | ---- | ---- | ---- | ---- | 38.66 | 40.27 | 42.65 | 44.45 | 45.26 | 44.01 |
| 25 | ---- | ---- | ---- | ---- | ---- | ---- | 38.64 | 40.36 | 42.69 | 44.54 | 45.30 | 43.71 |
| 26 | ---- | ---- | ---- | ---- | ---- | ---- | 38.64 | 40.46 | 42.74 | 44.57 | 45.33 | 43.35 |
| 27 | ---- | ---- | ---- | ---- | ---- | ---- | 38.65 | ---- | 42.81 | 44.61 | 45.33 | 43.03 |
| 28 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 42.88 | 44.62 | 45.36 | 42.88 |
| 29 | ---- | ---- | ---- | ---- | ---- | ---- | 38.70 | 40.68 | 42.93 | 44.59 | 45.39 | 42.68 |
| 30 | ---- | ---- | ---- | ---- | ---- | ---- | 38.73 | 40.76 | 42.98 | 44.62 | 45.41 | 42.50 |
| 31 | ---- | ---- | ---- | ---- | ---- | ---- | 38.78 | 40.84 | ---- | 44.66 | ---- | 42.36 |

(Daily highest water level from recorder graph, 1958)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 42.22 | 41.80 | 42.98 | 44.08 | 45.01 | ---- | 39.39 | 37.47 | 37.33 | 39.46 | 41.96 | ---- |
| 2 | e42.12 | 41.85 | 43.00 | 44.08 | 45.04 | ---- | 39.31 | ---- | 37.41 | 39.56 | 42.02 | ---- |
| 3 | ---- | 41.89 | 43.01 | 44.12 | ---- | ---- | 39.26 | ---- | 37.48 | 39.61 | e42.11 | 42.79 |
| 4 | ---- | 41.92 | 43.04 | 44.14 | ---- | ---- | 39.22 | ---- | 37.58 | 39.68 | e42.19 | 42.79 |
| 5 | ---- | 41.92 | 43.04 | 44.14 | 45.10 | ---- | 39.21 | 36.88 | 37.64 | 39.75 | e42.27 | 42.85 |
| 6 | ---- | 41.97 | 43.07 | 44.18 | 45.11 | ---- | 39.20 | 36.75 | 37.65 | ---- | 42.37 | 42.94 |
| 7 | 41.73 | 42.02 | 43.12 | 44.26 | 45.09 | ---- | 39.18 | 36.66 | 37.70 | 39.93 | 42.45 | 42.91 |
| 8 | 41.71 | 42.07 | 43.13 | 44.32 | 45.09 | ---- | 39.19 | 36.63 | 37.75 | 40.00 | 42.50 | 42.89 |
| 9 | 41.68 | e42.12 | 43.14 | 44.35 | 45.10 | ---- | 39.18 | 36.59 | 37.79 | 40.07 | 42.55 | 42.97 |
| 10 | 41.68 | ---- | 43.23 | 44.36 | 45.09 | 45.80 | 39.15 | 36.55 | 37.84 | 40.19 | 42.66 | 42.96 |
| 11 | 41.70 | ---- | 43.27 | 44.39 | 45.10 | 45.63 | 39.13 | 36.55 | 37.96 | 40.29 | 42.75 | 42.93 |
| 12 | 41.67 | 42.21 | 43.30 | 44.42 | 45.12 | ---- | 39.09 | 36.55 | 38.02 | 40.39 | 42.82 | ---- |
| 13 | 41.64 | 42.25 | 43.31 | 44.46 | 45.15 | ---- | 38.99 | 36.60 | 38.08 | 40.46 | 42.89 | 43.00 |
| 14 | 41.64 | 42.28 | 43.38 | 44.48 | 45.15 | ---- | 38.89 | 36.65 | 38.17 | 40.54 | 42.96 | 42.99 |
| 15 | 41.67 | 42.31 | 43.43 | 44.50 | 45.16 | ---- | 38.82 | 36.68 | 38.26 | 40.63 | 42.99 | 42.97 |
| 16 | 41.68 | 42.38 | 43.47 | 44.54 | 45.18 | ---- | 38.73 | 36.70 | 38.34 | 40.69 | 43.11 | 42.96 |
| 17 | 41.68 | 42.45 | 43.52 | 44.57 | 45.19 | ---- | 38.61 | 36.68 | 38.41 | 40.75 | 43.09 | 42.97 |
| 18 | 41.69 | 42.48 | 43.56 | 44.59 | 45.21 | ---- | 38.43 | 36.72 | 38.51 | 40.85 | 43.10 | 43.01 |
| 19 | 41.69 | 42.53 | 43.61 | 44.62 | 45.25 | ---- | 38.26 | 36.70 | 38.59 | 40.93 | 43.05 | 43.00 |
| 20 | 41.66 | 42.59 | 43.65 | 44.65 | 45.26 | ---- | 38.10 | 36.66 | 38.62 | 40.99 | 43.02 | 43.10 |
| 21 | 41.61 | 42.60 | 43.69 | 44.68 | 45.28 | ---- | 37.96 | 36.65 | 38.68 | 41.08 | 42.97 | ---- |
| 22 | 41.68 | 42.63 | 43.74 | 44.70 | 45.28 | 39.87 | 37.86 | ---- | 38.77 | 41.16 | 42.98 | ---- |
| 23 | 41.70 | 42.70 | 43.79 | 44.73 | 45.33 | 39.88 | 37.77 | 36.72 | 38.84 | 41.25 | 42.96 | ---- |
| 24 | 41.63 | 42.71 | 43.83 | 44.74 | 45.35 | 39.91 | 37.69 | 36.72 | 38.89 | e41.33 | 42.96 | 43.21 |
| 25 | 41.64 | 42.77 | 43.88 | 44.86 | 45.37 | 39.89 | 37.68 | 36.82 | 38.97 | e41.42 | 42.95 | 43.26 |
| 26 | 41.64 | 42.80 | 43.91 | 44.87 | 45.40 | 39.84 | 37.68 | 36.89 | ---- | 41.50 | 43.03 | 43.28 |

Table 9.--Water levels in observation wells in Parke County--Continued

(Daily highest water level from recorder graph, 1958)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 27 | 41.69 | 42.78 | 43.94 | 44.89 | 45.42 | 39.75 | 37.67 | 36.96 | ---- | 41.58 | 42.98 | 43.30 |
| 28 | 41.73 | 42.86 | 43.97 | 44.91 | 45.44 | 39.66 | 37.69 | 37.00 | 39.22 | 41.67 | 42.95 | 43.34 |
| 29 | 41.72 | ---- | 44.00 | 44.94 | ---- | 39.57 | 37.67 | 37.08 | 39.28 | 41.75 | 42.94 | 43.38 |
| 30 | 41.73 | ---- | 44.01 | 44.98 | ---- | 39.46 | 37.66 | 37.16 | 39.33 | 41.84 | ---- | 43.45 |
| 31 | 41.72 | ---- | 44.04 | ---- | ---- | ---- | 37.64 | 37.23 | ---- | 41.92 | ---- | 43.46 |

(Daily highest water level from recorder graph, 1959)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 43.45 | 42.46 | 38.26 | 38.32 | 38.75 | 39.17 | 41.26 | 43.47 | 45.34 | 46.81 | 47.67 | 47.93 |
| 2 | 43.51 | 42.24 | ---- | 38.33 | 38.54 | 39.24 | 41.35 | 43.54 | 45.39 | 46.84 | 47.69 | 47.95 |
| 3 | 43.55 | 42.10 | ---- | 38.33 | 38.37 | 39.31 | 41.42 | 43.59 | 45.47 | ---- | 47.72 | 47.95 |
| 4 | 43.61 | 42.00 | ---- | 38.45 | 38.19 | 39.37 | 41.46 | 43.64 | 45.52 | 46.92 | 47.73 | 47.96 |
| 5 | ---- | 41.97 | 38.17 | 38.43 | 38.11 | ---- | 41.53 | 43.72 | 45.56 | 46.95 | 47.77 | 47.97 |
| 6 | ---- | 41.87 | 38.21 | 38.44 | 38.08 | 39.59 | 41.61 | 43.78 | 45.61 | 46.99 | 47.82 | 47.98 |
| 7 | ---- | 41.76 | 38.37 | 38.40 | 38.09 | 39.66 | 41.70 | 43.84 | 45.66 | 47.02 | 47.85 | ---- |
| 8 | e43.80 | 41.67 | 38.31 | 38.40 | 38.07 | 39.73 | 41.76 | 43.90 | 45.72 | 47.06 | ---- | ---- |
| 9 | 43.82 | 41.55 | 38.30 | 38.45 | 38.06 | 39.80 | 41.82 | 43.97 | 45.77 | 47.11 | ---- | 48.04 |
| 10 | 43.86 | 41.29 | 38.30 | 38.46 | 38.06 | 39.87 | 41.90 | 44.04 | ---- | 47.15 | 47.86 | 48.04 |
| 11 | 43.88 | 40.93 | 38.29 | 38.50 | 38.11 | 39.93 | 42.97 | 44.10 | ---- | 47.19 | 47.88 | 48.03 |
| 12 | 43.91 | 40.48 | 38.27 | 38.49 | ---- | 39.99 | 42.05 | ----- | 45.92 | ---- | 47.89 | 48.05 |
| 13 | 43.94 | 40.01 | 38.22 | 38.53 | ---- | 40.00 | e42.14 | 44.24 | 45.96 | 47.24 | 47.91 | 48.09 |
| 14 | 43.96 | 39.50 | 38.15 | 38.56 | ---- | ---- | ---- | 44.30 | 46.00 | 47.25 | 47.93 | 48.09 |
| 15 | 43.99 | 39.00 | 38.13 | 38.58 | 38.35 | 40.17 | ---- | 44.36 | 46.03 | 47.27 | 47.93 | 48.07 |
| 16 | ---- | 38.46 | 38.21 | ---- | 38.43 | 40.20 | 42.38 | 44.42 | 46.09 | 47.28 | 47.93 | 48.05 |
| 17 | e44.10 | 38.21 | 38.24 | 38.68 | 38.48 | 40.26 | 42.45 | 44.48 | 46.16 | 47.29 | ---- | ---- |
| 18 | 44.08 | 38.17 | 38.17 | 38.71 | 38.51 | 40.34 | 42.51 | 44.54 | 46.21 | 47.31 | ---- | ---- |
| 19 | 44.08 | ---- | 38.16 | 38.77 | 38.56 | 40.40 | 42.58 | 44.60 | 46.26 | 47.33 | e47.89 | e48.00 |
| 20 | 44.12 | ---- | 38.08 | 38.80 | 38.65 | 40.48 | 42.66 | 44.65 | 46.30 | 47.34 | 47.86 | 47.98 |
| 21 | 44.05 | ---- | ---- | 38.89 | 38.70 | 40.54 | 42.72 | 44.70 | ---- | 47.38 | 47.86 | 47.98 |
| 22 | 44.03 | 38.11 | ---- | 38.90 | 38.78 | 40.60 | 42.79 | 44.76 | ---- | 47.40 | 47.86 | 47.98 |
| 23 | 43.90 | 38.11 | 38.10 | 38.90 | ---- | 40.70 | 42.84 | 44.82 | ---- | 47.41 | 47.85 | 47.98 |
| 24 | 43.76 | 38.25 | 38.13 | ---- | ---- | ---- | ---- | 44.88 | 46.53 | 47.42 | 47.84 | 47.98 |
| 25 | e43.62 | 38.23 | 38.16 | ---- | ---- | ---- | ---- | 44.94 | 46.55 | 47.46 | 47.87 | 47.98 |
| 26 | ---- | 38.23 | 38.12 | 38.95 | ---- | ---- | 43.08 | 44.99 | 46.59 | 47.50 | 47.89 | 47.98 |
| 27 | 43.25 | 38.23 | 38.20 | 38.97 | 38.98 | 41.01 | 43.12 | 45.05 | 46.64 | 47.53 | 47.92 | 47.96 |
| 28 | 43.05 | 38.26 | 38.33 | 38.93 | 39.00 | 41.09 | 43.17 | 45.11 | 46.69 | 47.58 | e47.93 | ---- |
| 29 | 42.88 | ---- | 38.33 | 39.00 | 39.01 | 41.16 | 43.24 | 45.16 | 46.74 | ---- | 47.93 | ---- |
| 30 | 42.76 | ---- | 38.31 | 38.96 | 39.08 | 41.22 | 43.30 | ---- | 46.78 | ---- | 47.92 | ---- |
| 31 | 42.59 | ---- | 38.33 | ---- | 39.12 | ---- | 43.40 | ---- | ---- | 47.65 | ---- | ---- |

(Daily highest water level from recorder graph, 1960)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 47.92 | 47.31 | 45.56 | ---- | 43.96 | 44.24 | 41.99 | 42.72 | 44.26 | 45.90 | 47.34 | 48.45 |
| 2 | 47.88 | 47.29 | 45.50 | ---- | 43.94 | 44.23 | 41.93 | 42.77 | 44.31 | 45.93 | 47.39 | 48.48 |
| 3 | 47.89 | 47.26 | 45.50 | ---- | 43.95 | 44.25 | 41.91 | 42.82 | 44.36 | 46.00 | 47.44 | 48.50 |
| 4 | 47.86 | 47.24 | ---- | ---- | 43.95 | 44.26 | 41.92 | 42.86 | 44.42 | 46.03 | 47.50 | 48.52 |
| 5 | 47.85 | 47.21 | ---- | ---- | 43.96 | 44.26 | 41.93 | 42.91 | 44.46 | 46.04 | 47.52 | 48.55 |

Table 9.--Water levels in observation wells in Parke County--Continued

(Daily highest water level from recorder graph, 1960)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 47.82 | 47.21 | ---- | 45.73 | 43.91 | 44.31 | 41.93 | 42.95 | 44.52 | 46.06 | 47.55 | 48.58 |
| 7 | 47.80 | 47.18 | ---- | 45.63 | 43.96 | 44.32 | 41.93 | 42.97 | 44.57 | 46.07 | 47.61 | 48.61 |
| 8 | 47.81 | 47.10 | ---- | 45.56 | 43.98 | 44.34 | 41.93 | 43.00 | 44.63 | ---- | 47.64 | 48.63 |
| 9 | ---- | 47.02 | ---- | 45.52 | ---- | e44.35 | 41.93 | 43.04 | ---- | ---- | 47.68 | 48.67 |
| 10 | ---- | 46.99 | ---- | 45.46 | ---- | ---- | e41.93 | 43.07 | ---- | ---- | 47.73 | 48.68 |
| 11 | ---- | 46.96 | ---- | 45.42 | ---- | 44.39 | 41.96 | 43.13 | ---- | ---- | 47.77 | 48.70 |
| 12 | ---- | 46.26 | ---- | 45.42 | ---- | 44.41 | 41.98 | 43.17 | ---- | ---- | 47.80 | 48.74 |
| 13 | ---- | 46.13 | ---- | e45.41 | 44.01 | 44.41 | 42.01 | 43.22 | ---- | ---- | 47.83 | 48.78 |
| 14 | ---- | 46.04 | ---- | ---- | 44.01 | 44.42 | 42.05 | 43.27 | ---- | ---- | 47.87 | 48.79 |
| 15 | 47.73 | 45.95 | ---- | ---- | 44.05 | 44.45 | 42.08 | 43.31 | ---- | ---- | 47.90 | 48.80 |
| 16 | 47.68 | 45.84 | ---- | ---- | 44.03 | 44.43 | 42.08 | 43.35 | ---- | ---- | 47.92 | 48.83 |
| 17 | 47.64 | ---- | 45.55 | ---- | 44.04 | ---- | 42.07 | 43.41 | ---- | ---- | 47.98 | 48.85 |
| 18 | 47.63 | ---- | 45.54 | ---- | 44.10 | ---- | 42.08 | 43.45 | ---- | ---- | 48.01 | 48.89 |
| 19 | 47.58 | ---- | 45.54 | ---- | 44.10 | ---- | ---- | 43.50 | ---- | ---- | 48.05 | 48.91 |
| 20 | ---- | ---- | 45.59 | ---- | 44.10 | ---- | ---- | 43.55 | ---- | ---- | 48.08 | 48.93 |
| 21 | ---- | ---- | 45.55 | ---- | 44.12 | ---- | 42.27 | 43.62 | ---- | ---- | 48.11 | 48.95 |
| 22 | ---- | 45.87 | 45.55 | ---- | ---- | ---- | 42.29 | 43.69 | ---- | ---- | 48.14 | 48.98 |
| 23 | 47.48 | 45.83 | 45.61 | ---- | ---- | 43.87 | 42.31 | 43.74 | ---- | ---- | 48.18 | 49.00 |
| 24 | 47.47 | 45.77 | 45.62 | ---- | ---- | 43.47 | 42.35 | 43.80 | ---- | ---- | 48.23 | 49.02 |
| 25 | 47.44 | 45.73 | ---- | ---- | ---- | 43.05 | 42.41 | 43.85 | ---- | 47.09 | 48.25 | 49.04 |
| 26 | 47.42 | 45.75 | ---- | ---- | ---- | 42.72 | 42.44 | 43.90 | ---- | 47.10 | 48.28 | e49.05 |
| 27 | 47.40 | ---- | ---- | ---- | ---- | 42.45 | 42.48 | 43.95 | ---- | 47.14 | 48.31 | ---- |
| 28 | 47.38 | ---- | ---- | ---- | ---- | 42.24 | 42.52 | 44.00 | 45.76 | 47.19 | 48.34 | ---- |
| 29 | 47.35 | ---- | ---- | ---- | ---- | 42.17 | 42.56 | 44.05 | 45.78 | 47.23 | 48.37 | 49.12 |
| 30 | ---- | ---- | ---- | ---- | ---- | 42.07 | 42.59 | 44.12 | 45.83 | 47.27 | 48.41 | 49.15 |
| 31 | 47.32 | ---- | ---- | ---- | ---- | ---- | 42.66 | 44.18 | ---- | 47.30 | ---- | 49.16 |

Parke 4. (15/6W-27K1). U. S. Corps of Engineers. Mansfield. NW¼SE¼ sec. 27, T. 15 N., R. 6 W. Drilled unused artesian well in limestone, diameter 6 inches, depth 111.7 feet. Land-surface datum is 748.7 feet above msl. Recording gage installed July 16, 1957. Highest water level is 47.29 below lsd, June 11-14, 1959; lowest, 48.56 below lsd, Nov. 6-8, 1960. Records available: 1957 to 1960. Affected by fluctuations in barometric pressure.

(Daily highest water level from recorder graph, 1957)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 47.73 | ---- | 48.00 | 47.92 | 47.89 |
| 2 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 47.72 | ---- | 48.01 | 47.93 | 47.90 |
| 3 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 47.69 | 47.91 | 48.03 | 47.93 | 47.88 |
| 4 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 47.69 | 47.92 | 48.03 | 47.94 | 47.89 |
| 5 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 47.69 | 47.94 | 48.05 | 47.94 | 47.90 |
| 6 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 47.71 | 47.95 | 48.05 | 47.95 | 47.81 |
| 7 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 47.73 | 47.97 | 48.06 | 47.92 | 47.81 |
| 8 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 47.74 | 47.98 | 48.07 | 47.87 | 47.83 |
| 9 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 47.76 | 47.99 | 48.08 | 47.90 | 47.84 |
| 10 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 47.76 | 47.99 | 48.08 | 47.93 | 47.83 |

Table 9.--Water levels in observation wells in Parke County--Continued

(Daily highest water level from recorder graph, 1957)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 48.01 | 48.09 | 47.94 | 47.85 |
| 12 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | e47.95 | 48.10 | 47.93 | 47.87 |
| 13 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 47.75 | ---- | 48.11 | 47.88 | 47.88 |
| 14 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 47.76 | ---- | 48.11 | 47.80 | 47.90 |
| 15 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 47.77 | 47.94 | 48.09 | 47.83 | 47.91 |
| 16 | ---- | ---- | ---- | ---- | ---- | ---- | 47.69 | 47.78 | 47.94 | 48.00 | 47.83 | 47.91 |
| 17 | ---- | ---- | ---- | ---- | ---- | ---- | 47.65 | 47.80 | 47.95 | 48.00 | 47.84 | 47.82 |
| 18 | ---- | ---- | ---- | ---- | ---- | ---- | 47.65 | 47.81 | 47.96 | 48.01 | 47.78 | 47.77 |
| 19 | ---- | ---- | ---- | ---- | ---- | ---- | 47.65 | 47.82 | 47.92 | 48.02 | 47.79 | 47.70 |
| 20 | ---- | ---- | ---- | ---- | ---- | ---- | 47.66 | 47.84 | 47.91 | 48.03 | 47.82 | 47.70 |
| 21 | ---- | ---- | ---- | ---- | ---- | ---- | 47.67 | 47.85 | 47.91 | 48.03 | 47.84 | 47.75 |
| 22 | ---- | ---- | ---- | ---- | ---- | ---- | 47.67 | 47.87 | 47.91 | 48.03 | 47.86 | 47.78 |
| 23 | ---- | ---- | ---- | ---- | ---- | ---- | 47.67 | 47.87 | 47.91 | 47.84 | 47.84 | 47.78 |
| 24 | ---- | ---- | ---- | ---- | ---- | ---- | 47.68 | 47.86 | 47.92 | 47.84 | 47.85 | 47.80 |
| 25 | ---- | ---- | ---- | ---- | ---- | ---- | 47.70 | 47.87 | 47.93 | 47.87 | 47.87 | 47.69 |
| 26 | ---- | ---- | ---- | ---- | ---- | ---- | 47.71 | 47.88 | 47.94 | 47.88 | 47.87 | 47.70 |
| 27 | ---- | ---- | ---- | ---- | ---- | ---- | 47.73 | ---- | 47.97 | 47.90 | 47.87 | 47.70 |
| 28 | ---- | ---- | ---- | ---- | ---- | ---- | 47.73 | ---- | 47.98 | 47.91 | 47.87 | 47.70 |
| 29 | ---- | ---- | ---- | ---- | ---- | ---- | 47.74 | ---- | 47.98 | 47.90 | 47.88 | 47.73 |
| 30 | ---- | ---- | ---- | ---- | ---- | ---- | 47.74 | ---- | 47.99 | 47.90 | 47.88 | 47.74 |
| 31 | ---- | ---- | ---- | ---- | ---- | ---- | 47.75 | ---- | ---- | 47.92 | ---- | 47.72 |

(Daily highest water level from recorder graph, 1958)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 47.73 | ---- | 47.91 | 47.87 | 47.87 | 47.87 | 47.80 | 47.61 | 47.79 | 47.61 | 47.72 | 47.56 |
| 2 | 47.75 | ---- | 47.91 | 47.88 | 47.87 | 47.87 | 47.81 | 47.61 | 47.80 | 47.61 | 47.71 | 47.55 |
| 3 | 47.77 | ---- | 47.91 | 47.88 | 47.82 | 47.88 | 47.82 | 47.61 | 47.75 | 47.61 | 47.70 | 47.54 |
| 4 | 47.80 | ---- | 47.91 | 47.88 | 47.80 | 47.90 | 47.83 | 47.62 | 47.75 | 47.61 | 47.69 | 47.56 |
| 5 | 47.80 | ---- | 47.91 | 47.85 | 47.79 | 47.90 | 47.84 | 47.63 | 47.75 | 47.61 | 47.69 | 47.56 |
| 6 | 47.78 | ---- | 47.91 | 47.84 | 47.79 | 47.92 | 47.85 | 47.64 | 47.67 | 47.64 | 47.69 | 47.59 |
| 7 | 47.79 | ---- | 47.90 | 47.84 | 47.79 | 47.92 | 47.85 | 47.63 | 47.67 | 47.68 | 47.70 | 47.62 |
| 8 | 47.80 | ---- | 47.89 | 47.85 | 47.79 | 47.92 | 47.85 | 47.63 | ---- | 47.68 | 47.67 | 47.62 |
| 9 | 47.83 | ---- | 47.88 | 47.85 | 47.80 | 47.88 | 47.86 | 47.64 | ---- | 47.64 | 47.67 | 47.62 |
| 10 | 47.82 | ---- | 47.89 | 47.86 | 47.80 | 47.72 | 47.87 | 47.64 | 47.66 | 47.63 | 47.67 | 47.65 |
| 11 | 47.83 | ---- | 47.90 | 47.86 | 47.81 | 47.72 | 47.77 | 47.64 | 47.66 | 47.63 | 47.69 | 47.65 |
| 12 | 47.84 | ---- | 47.90 | 47.86 | 47.83 | 47.73 | 47.77 | 47.66 | 47.66 | 47.65 | 47.69 | 47.65 |
| 13 | 47.82 | ---- | 47.89 | 47.88 | 47.84 | 47.72 | 47.77 | 47.67 | 47.66 | 47.65 | 47.69 | 47.67 |
| 14 | 47.82 | ---- | 47.90 | 47.89 | 47.87 | 47.72 | 47.77 | 47.67 | 47.67 | 47.65 | 47.69 | 47.68 |
| 15 | 47.82 | ---- | 47.91 | 47.89 | 47.83 | 47.73 | 47.75 | 47.64 | 47.67 | 47.65 | 47.65 | 47.69 |
| 16 | 47.82 | ---- | 47.91 | 47.89 | 47.83 | 47.73 | 47.75 | 47.64 | 47.64 | 47.65 | 47.63 | 47.69 |
| 17 | 47.82 | ---- | 47.91 | 47.90 | 47.83 | 47.74 | 47.76 | 47.64 | 47.58 | 47.66 | 47.58 | 47.69 |
| 18 | 47.83 | ---- | 47.92 | 47.90 | 47.83 | 47.76 | 47.77 | 47.64 | 47.58 | 47.66 | 47.58 | 47.70 |
| 19 | 47.84 | ---- | 47.92 | 47.90 | 47.84 | 47.75 | 47.77 | 47.65 | 47.58 | 47.68 | 47.58 | 47.70 |
| 20 | 47.76 | ---- | 47.90 | 47.87 | 47.85 | 47.73 | 47.73 | 47.66 | 47.58 | 47.68 | 47.59 | 47.71 |

Table 9.--Water levels in observation wells, Parke County--Continued

(Daily highest water level from recorder graph, 1958)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | 47.73 | ---- | 47.91 | 47.87 | 47.86 | 47.73 | 47.73 | 47.67 | 47.58 | 47.68 | 47.60 | 47.72 |
| 22 | 47.74 | ---- | 47.91 | 47.87 | 47.82 | 47.73 | 47.73 | 47.67 | 47.59 | 47.68 | 47.60 | 47.72 |
| 23 | ---- | ---- | 47.92 | 47.87 | 47.82 | 47.73 | 47.73 | 47.68 | 47.60 | 47.69 | 47.61 | 47.72 |
| 24 | 47.77 | ---- | 47.84 | 47.87 | 47.83 | 47.73 | 47.74 | 47.68 | 47.60 | 47.69 | 47.61 | 47.72 |
| 25 | 47.55 | 47.92 | 47.84 | 47.89 | 47.83 | 47.73 | 47.74 | 47.68 | 47.60 | 47.70 | 47.54 | 47.73 |
| 26 | ---- | 47.91 | 47.85 | 47.90 | 47.83 | 47.73 | 47.74 | 47.69 | 47.60 | 47.70 | 47.54 | 47.73 |
| 27 | ---- | 47.88 | 47.85 | 47.88 | 47.83 | 47.73 | ---- | 47.69 | 47.60 | 47.70 | 47.55 | 47.73 |
| 28 | ---- | 47.88 | 47.85 | 47.87 | 47.83 | 47.74 | 47.79 | 47.69 | 47.61 | 47.70 | 47.54 | 47.73 |
| 29 | ---- | ---- | 47.86 | 47.87 | 47.84 | 47.74 | 47.79 | 47.70 | 47.61 | 47.71 | 47.54 | 47.73 |
| 30 | ---- | ---- | 47.86 | 47.87 | 47.84 | 47.78 | 47.79 | 47.70 | 47.61 | 47.72 | 47.56 | 47.75 |
| 31 | ---- | ---- | 47.87 | ---- | 47.87 | ---- | 47.60 | 47.77 | ---- | 47.72 | ---- | 47.70 |

(Daily highest water level from recorder graph, 1959)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 47.69 | 47.77 | ---- | 47.46 | 47.40 | 47.36 | 47.52 | 47.62 | 47.72 | 47.97 | 47.94 | 47.98 |
| 2 | 47.69 | 47.76 | ---- | 47.45 | 47.40 | 47.36 | 47.54 | 47.64 | 47.72 | 47.98 | 47.94 | 47.99 |
| 3 | 47.69 | 47.72 | ---- | 47.45 | 47.40 | 47.36 | 47.55 | 47.65 | 47.74 | 47.98 | 47.95 | 48.00 |
| 4 | 47.69 | 47.72 | ---- | 47.45 | 47.40 | 47.38 | 47.56 | 47.62 | 47.76 | 48.00 | 47.90 | 48.00 |
| 5 | 47.71 | 47.73 | ---- | 47.46 | 47.40 | 47.39 | 47.58 | 47.63 | 47.77 | 48.00 | 47.90 | 48.00 |
| 6 | 47.72 | 47.77 | ---- | 47.47 | 47.38 | 47.40 | 47.58 | 47.64 | 47.79 | 47.99 | 47.91 | 48.00 |
| 7 | 47.72 | ---- | ---- | 47.47 | 47.38 | 47.41 | 47.61 | 47.64 | 47.81 | 47.99 | ---- | 48.00 |
| 8 | 47.73 | ---- | ---- | 47.46 | 47.40 | 47.43 | 47.61 | 47.64 | 47.82 | 47.99 | ---- | 48.00 |
| 9 | 47.74 | ---- | ---- | 47.45 | 47.40 | 47.47 | 47.61 | 47.65 | 47.84 | 48.00 | ---- | 48.02 |
| 10 | 47.75 | ---- | ---- | 47.45 | 47.39 | 47.36 | 47.65 | 47.66 | 47.83 | 47.89 | ---- | 48.03 |
| 11 | 47.76 | ---- | 47.56 | 47.46 | 47.39 | 47.29 | 47.66 | 47.68 | 47.83 | 47.89 | ---- | 47.99 |
| 12 | 47.77 | ---- | 47.55 | 47.46 | 47.39 | 47.29 | 47.67 | 47.69 | 47.84 | 47.89 | ---- | 47.96 |
| 13 | 47.77 | ---- | 47.54 | 47.46 | 47.39 | 47.29 | 47.69 | 47.71 | 47.85 | 47.90 | ---- | 47.96 |
| 14 | 47.73 | ---- | 47.50 | 47.46 | 47.38 | 47.29 | 47.69 | 47.72 | 47.86 | 47.90 | ---- | 47.97 |
| 15 | 47.73 | ---- | 47.48 | 47.46 | 47.38 | 47.31 | 47.69 | 47.73 | 47.87 | 47.91 | ---- | 47.97 |
| 16 | 47.74 | ---- | 47.53 | 47.46 | 47.38 | 47.32 | 47.71 | 47.56 | 47.88 | 47.93 | ---- | 47.97 |
| 17 | 47.74 | 47.66 | 47.53 | 47.46 | 47.38 | 47.33 | 47.71 | 47.55 | 47.90 | 47.94 | ---- | 47.97 |
| 18 | 47.76 | 47.65 | 47.54 | 47.46 | 47.38 | 47.35 | 47.71 | 47.55 | 47.91 | 47.95 | ---- | 47.98 |
| 19 | 47.76 | ---- | 47.54 | 47.44 | 47.38 | 47.38 | 47.71 | 47.57 | 47.92 | 47.95 | ---- | 48.00 |
| 20 | 47.66 | ---- | 47.54 | 47.44 | 47.38 | 47.41 | 47.72 | 47.59 | 47.93 | 47.96 | ---- | 48.02 |
| 21 | 47.63 | ---- | 47.54 | 47.44 | 47.39 | 47.42 | 47.72 | 47.61 | 47.93 | 47.98 | ---- | 48.02 |
| 22 | 47.65 | ---- | 47.55 | 47.43 | 47.39 | 47.42 | 47.72 | 47.62 | 47.94 | 47.99 | ---- | 48.02 |
| 23 | 47.68 | ---- | 47.56 | 47.44 | 47.38 | 47.43 | 47.76 | 47.63 | 47.95 | 47.94 | ---- | 48.02 |
| 24 | 47.69 | ---- | 47.55 | 47.44 | 47.38 | 47.43 | 47.76 | 47.65 | 47.97 | 47.91 | ---- | 48.03 |
| 25 | 47.70 | ---- | 47.55 | 47.44 | 47.38 | 47.43 | 47.76 | 47.67 | 47.99 | 47.91 | ---- | 48.03 |
| 26 | 47.70 | ---- | 47.52 | 47.44 | 47.38 | 47.43 | 47.77 | 47.67 | 47.96 | 47.91 | ---- | 48.03 |
| 27 | 47.71 | ---- | 47.52 | 47.42 | 47.36 | 47.43 | 47.74 | 47.69 | 47.95 | 47.91e | 47.96 | 48.02 |
| 28 | 47.72 | ---- | 47.53 | 47.40 | 47.36 | 47.47 | 47.74 | 47.70 | 47.95 | 47.93 | 47.96 | 48.02 |
| 29 | 47.73 | ---- | 47.53 | 47.40 | 47.36 | 47.47 | 47.74 | 47.70 | 47.96 | 47.94 | 47.96 | 48.02 |
| 30 | 47.73 | ---- | 47.52 | 47.40 | 47.36 | 47.49 | 47.62 | 47.72e | 47.97 | 47.94 | 47.97 | 48.02 |
| 31 | 47.76 | ---- | 47.52 | ---- | 47.36 | ---- | 47.62 | 47.73 | ---- | 47.94 | ---- | 48.02 |

Table 9.--Water levels in observation wells, Parke County--Continued

(Daily highest water level from recorder graph, 1960)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 48.03 | 48.03 | 48.04 | 47.96 | 47 94 | 47.73 | 47.76 | ---- | 48.28 | 48.45 | 48.51 | 48.45 |
| 2 | 48.02 | 48.03 | 48.05 | 47.96 | 47.94 | 47.75 | 47.77 | ---- | 48.29 | 48.45 | 48.51 | 48.45 |
| 3 | 48.02 | 48.03 | 48.05 | 47.97 | 47.94 | 47.76 | 47.78 | ---- | 48.31 | 48.46 | 48.53 | 48.45 |
| 4 | 48.02 | 48.03 | 48.05 | 47.97 | 47.94 | 47.78 | 47.80 | ---- | 48.32 | 48.47 | 48.54 | 48.45 |
| 5 | 48.04 | 47.99 | ---- | 47.97 | 47.94 | 47.80 | 47.82 | ---- | 48.33 | 48.47 | 48.55 | 48.45 |
| 6 | 48.05 | 47.99 | ---- | 47.97 | 47.90 | 47.82 | 47.84 | ---- | 48.35 | 48.47 | 48.55 | 48.45 |
| 7 | 48.06 | 47.99 | ---- | 47.98 | 47.88 | 47.83 | 47.84 | ---- | 48.36 | 48.49 | 48.56 | 48.45 |
| 8 | 48.06 | 47.99 | ---- | 47.98 | 47.89 | 47.84 | 47.85 | 48.16 | 48.37 | 48.49 | 48.55 | 48.45 |
| 9 | 48.06 | 47.98 | ---- | 47.99 | 47.89 | 47.84 | 47.86 | 48.16 | 48.38 | 48.49 | 48.55 | 48.45 |
| 10 | 48.05 | 47.97 | ---- | 48.01 | 47.89 | 47.84 | 47.86 | 48.16 | 48.38 | 48.51 | 48.55 | 48.45 |
| 11 | 48.05 | 47.97 | ---- | 48.00 | 47.89 | 47.89 | 47.86 | 48.16 | 48.38 | 48.52 | 48.54 | 48.44 |
| 12 | 48.03 | 47.97 | ---- | 47.98 | ---- | 47.88 | 47.86 | 48.16 | 48.39 | 48.52 | 48.54 | 48.44 |
| 13 | 48.03 | 47.98 | ---- | 47.98 | 47.82 | 47.87 | 47.85 | 48.16 | 48.39 | 48.52 | 48.54 | 48.44 |
| 14 | 48.01 | ---- | ---- | 47.98 | 47.82 | 47.87 | 47.85 | 48.16 | 48.41 | 48.53 | 48.54 | 48.44 |
| 15 | 48.01 | ---- | ---- | 47.98 | 47.82 | ---- | 47.86 | 48.16 | 48.42 | 48.54 | 48.52 | 48.44 |
| 16 | 48.01 | 48.01 | 48.02 | 47.98 | 47.82 | ---- | 47.88 | 48.20 | 48.43 | 48.55 | 48.52 | 48.44 |
| 17 | 48.01 | 48.00 | 48.02 | 47.97 | 47.82 | 47.87 | 47.89 | 48.20 | 48.44 | 48.55 | 48.52 | 48.44 |
| 18 | 48.01 | 48.00 | 48.02 | 47.97 | 47.82 | 47.89 | 47.90 | 48.21 | 48.45 | 48.55 | 48.52 | 48.44 |
| 19 | 48.01 | 48.01 | 48.02 | 47.99 | 47.82 | 47.90 | 47.92 | 48.22 | 48.38 | 48.53 | 48.52 | 48.44 |
| 20 | 48.02 | 48.03 | 48.02 | 47.98 | 47.82 | 47.90 | 47.94 | 48.22 | 48.38 | 48.53 | 48.51 | 48.44 |
| 21 | 48.03 | 48.04 | 48.02 | 47.98 | 47.82 | 47.84 | 47.96 | 48.22 | 48.39 | 48.54 | 48.51 | 48.44 |
| 22 | 48.05 | 48.04 | 48.02 | 47.98 | 47.82 | 47.84 | 47.98 | 48.22 | 48.39 | 48.53 | 48.51 | 48.45 |
| 23 | 48.07 | 48.04 | 48.03 | 47.98 | 47.82 | 47.66 | 47.99 | 48.22 | 48.39 | 48.53 | 48.48 | ---- |
| 24 | 48.08 | 48.05 | 48.03 | 47.98 | 47.82 | 47.66 | 48.00 | 48.22 | 48.39 | 48.53 | 48.48 | ---- |
| 25 | 48.08 | 48.04 | 48.05 | 47.98 | 47 82 | 47.68 | ---- | 48.23 | 48.40 | 48.54 | 48.48 | ---- |
| 26 | 48.09 | 48.04 | 48.05 | 47.98 | 47.77 | 47.71 | ---- | 48.23 | 48.42 | 48.51 | 48.48 | ---- |
| 27 | 48.07 | 48.04 | 48.06 | 47.98 | 47.77 | 47.73 | ---- | 48.23 | 48.43 | 48.51 | 48.48 | ---- |
| 28 | 48.06 | 48.04 | 48.01 | 47.98 | 47.76 | 47.74 | ---- | 48.23 | 48.43 | 48.52 | 48.45 | ---- |
| 29 | 48.05 | 48.04 | 47.95 | 47.97 | 47.75 | 47.74 | ---- | 48.23 | 48.43 | 48.52 | 48.45 | 48.45 |
| 30 | 48.04 | ---- | 47.95 | 47.94 | 47.72 | 47.76 | ---- | 48.23 | 48.44 | 48.52 | 48.45 | 48.45 |
| 31 | 48.03 | ---- | 47.95 | ---- | 47.72 | ---- | ---- | 48.24 | ---- | 48.51 | ---- | 48.45 |

Parke 5. (17/7W-17E1). Glen Crowder, Marshall, SW¼NW¼ sec. 17, T. 17 N., R. 7 W. Drilled unused artesian well in limestone, diameter 6 inches, depth 165.6 feet. Land-surface datum is 582.5 feet above msl. Recording gage installed April 22, 1959. Highest water level is 34.34 below lsd, June 23, 1960; lowest, 37.18 below lsd, Oct. 25, 1960. Records available: 1959 to 1960. Affected by barometric pressure.

(Daily highest water level from recorder graph, 1959)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ---- | ---- | ---- | ---- | 35.90 | 36.34 | 36.61 | 36.81 | 36.92 | 37.00 | 36.76 | 36.64 |
| 2 | ---- | ---- | ---- | ---- | 35.95 | 36.36 | 36.68 | 36.84 | 36.92 | 36.99 | 36.77 | 36.66 |
| 3 | ---- | ---- | ---- | ---- | 36.01 | 36.39 | 36.67 | 36.81 | 36.99 | 37.00 | 36.76 | 36.64 |
| 4 | ---- | ---- | ---- | ---- | 36.05 | 36.39 | 36.65 | 36.60 | 37.00 | 37.03 | 36.53 | 36.63 |
| 5 | ---- | ---- | ---- | ---- | 36.08 | 36.40 | 36.66 | 36.65 | 37.00 | 37.02 | 36.54 | 36.62 |
| 6 | ---- | ---- | ---- | ---- | 36.10 | 36.42 | 36.69 | 36.73 | 37.01 | 37.00 | 36.62 | 36.58 |

Table 9.--Water levels in observation wells, Parke County--Continued

(Daily highest water level from recorder graph, 1959)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | ---- | ---- | ---- | ---- | 36.18 | 36.46 | 36.73 | 36.76 | 37.03 | 37.02 | 36.62 | 36.59 |
| 8 | ---- | ---- | ---- | ---- | 36.19 | 36.48 | 36.70 | 36.79 | 37.04 | 37.00 | ---- | 36.60 |
| 9 | ---- | ---- | ---- | ---- | 36.14 | 36.49 | 36.72 | ---- | 37.01 | 37.06 | ---- | 36.66 |
| 10 | ---- | ---- | ---- | ---- | 36.13 | 36.38 | 36.73 | ---- | 36.99 | 36.70 | ---- | 36.61 |
| 11 | ---- | ---- | ---- | ---- | 36.16 | 36.27 | 36.73 | ---- | 37.02 | 36.63 | ---- | 36.42 |
| 12 | ---- | ---- | ---- | ---- | 36.21 | 36.27 | 36.76 | ---- | 37.03 | 36.67 | ---- | 36.24 |
| 13 | ---- | ---- | ---- | ---- | 36.18 | 36.33 | 36.79 | ---- | 37.03 | 36.71 | ---- | 36.27 |
| 14 | ---- | ---- | ---- | ---- | 36.22 | 36.40 | 36.80 | ---- | 37.01 | 36.76 | ---- | 36.33 |
| 15 | ---- | ---- | ---- | ---- | 36.22 | 36.41 | 36.80 | ---- | 36.90 | 36.82 | ---- | 36.32 |
| 16 | ---- | ---- | ---- | ---- | 36.24 | 36.41 | 36.80 | ---- | 37.06 | 36.86 | ---- | 36.35 |
| 17 | ---- | ---- | ---- | ---- | 36.24 | 36.45 | 36.78 | ---- | 37.10 | 36.89 | ---- | 36.38 |
| 18 | ---- | ---- | ---- | ---- | 36.23 | 36.49 | 36.73 | ---- | 37.10 | 36.90 | ---- | 36.41 |
| 19 | ---- | ---- | ---- | ---- | 36.24 | 36.50 | 36.75 | ---- | 37.08 | 36.91 | ---- | 36.45 |
| 20 | ---- | ---- | ---- | ---- | 36.25 | 36.50 | 36.80 | ---- | 37.07 | 36.92 | ---- | 36.45 |
| 21 | ---- | ---- | ---- | ---- | 36.30 | 36.47 | 36.83 | ---- | 37.07 | 36.95 | ---- | 36.45 |
| 22 | ---- | ---- | ---- | 35.95 | 36.22 | 36.50 | 36.81 | ---- | 37.09 | 36.93 | ---- | 36.48 |
| 23 | ---- | ---- | ---- | 35.99 | 36.23 | 36.55 | 36.71 | ---- | 37.11 | 36.80 | ---- | 36.48 |
| 24 | ---- | ---- | ---- | 36.01 | 36.27 | 36.56 | 36.72 | ---- | 37.11 | 36.70 | ---- | 36.48 |
| 25 | ---- | ---- | ---- | 36.02 | 36.26 | 36.50 | 36.78 | ---- | 37.08 | 36.69 | ---- | 36.47 |
| 26 | ---- | ---- | ---- | 36.00 | 36.27 | 36.50 | 36.81 | 36.93 | 36.99 | 36.66 | 36.62 | 36.46 |
| 27 | ---- | ---- | ---- | 35.70 | 36.30 | 36.55 | 36.64 | 36.94 | 36.89 | 36.71 | 36.65 | 36.08 |
| 28 | ---- | ---- | ---- | 35.49 | 36.28 | 36.58 | 36.63 | 36.94 | 36.93 | 36.79 | 36.65 | 36.05 |
| 29 | ---- | ---- | ---- | 35.65 | 36.30 | 36.61 | 36.70 | 36.94e | 36.97 | 36.78 | 36.68 | 36.11 |
| 30 | ---- | ---- | ---- | 35.78 | 36.32 | 36.61 | 36.76 | 36.96 | 36.97 | 36.80 | 36.65 | 36.17 |
| 31 | ---- | ---- | ---- | ---- | 36.31 | ---- | 36.79 | 36.97 | ---- | 36.77 | ---- | 36.25 |

(Daily highest water level from recorder graph, 1960)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 36.27 | ---- | 36.49 | 35.84 | 36.36 | ---- | 36.14 | 36.63 | 36.90 | 37.01 | 37.02 | ---- |
| 2 | 36.24 | ---- | 36.37 | 35.91 | 36.38 | ---- | 36.30 | 36.63 | 36.92 | 37.00 | 37.05 | ---- |
| 3 | 36.26 | ---- | 36.37 | 36.07 | 36.38 | ---- | 36.19 | 35.75 | 36.93 | 37.07 | 37.13 | ---- |
| 4 | 36.35 | ---- | 36.49 | 36.12 | 36.41 | ---- | 36.29 | 35.87 | 36.92 | 37.06 | 37.10 | ---- |
| 5 | 36.35 | ---- | 36.52 | 36.17 | 36.42 | ---- | 36.33 | 36.09 | 36.93 | 37.02 | 37.08 | ---- |
| 6 | 36.36 | ---- | 36.50 | 36.18 | 36.10 | ---- | 36.37 | 36.23 | 36.96 | 37.05 | 37.04 | ---- |
| 7 | 36.35 | ---- | 36.50 | 36.25 | 35.95 | ---- | 36.39 | 36.30 | 36.98 | 37.09 | 37.11 | ---- |
| 8 | 36.40 | ---- | 36.47 | 36.31 | 36.00 | ---- | 36.41 | 36.36 | 36.99 | 37.08 | 37.07 | ---- |
| 9 | 36.41 | ---- | 36.43 | 36.35 | 36.07 | ---- | 36.43 | 36.42 | 36.94 | 37.09 | 37.02 | ---- |
| 10 | 36.42 | ---- | 36.48 | 36.39 | 36.09 | ---- | 36.37 | 36 47 | 36.95 | 37.13 | 36.98 | ---- |
| 11 | 36.44 | ---- | 36.49 | 36.34 | 36.16 | ---- | 36.39 | 36 54 | 36.95 | 37.11 | 36.96 | ---- |
| 12 | 36.36 | ---- | 36.53 | 36.40 | 36.21 | ---- | 36.44 | 36.57 | 36.95 | 37.12 | 36.98 | ---- |
| 13 | 36.35 | ---- | 36.53 | 36.40 | 36.22 | ---- | 36.08 | 36.58 | 36.97 | 37.12 | 36.99 | ---- |
| 14 | 36.23 | ---- | 36.51 | 36.41 | 36.24 | ---- | 36.08 | 36.61 | 37.01 | 37.12 | 37.00 | ---- |
| 15 | 36.15 | ---- | 36.42 | 36.41 | 36.30 | ---- | 36.18 | 36.65 | 37.02 | 37.12 | 36.89 | ---- |
| 16 | 36.26 | ---- | 36.38 | 36.15 | 36.29 | 36.43 | 36.24 | 36.68 | 37.04 | 37.12 | 36.88 | ---- |
| 17 | 36.23 | 36.20 | 36.44 | 36.15 | 36.28 | 36.42 | 36.28 | 36.69 | ---- | 37.11 | 36.88 | ---- |
| 18 | 36.21 | 36.25 | 36.45 | 36.25 | 36.36 | 36.48 | 36.31 | 36.68 | ---- | 37.13 | 36.68 | ---- |
| 19 | 36.30 | 36.31 | 36.44 | 36.28 | ---- | 36.49 | 36.35 | 36.70 | 36.87 | 37.10 | 36.95 | ---- |

Table 9.--Water levels in observation wells, Parke County--Continued

(Daily highest water level from recorder graph, 1960)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 36.34 | 36.33 | 36.46 | 36.25 | ---- | 36.50 | 36.40 | 36.70 | 36.88 | 37.14 | 36.95 | ---- |
| 21 | ---- | 36.27 | 36.36 | 36.26 | ---- | 36.21 | 36.44 | 36.73 | 36.93 | 37.13 | 36.96 | ---- |
| 22 | ---- | 36.36 | 36.36 | 36.34 | ---- | 35.76 | 36.45 | 36.75 | 36.93 | 37.07 | 36.96 | ---- |
| 23 | ---- | 36.40 | 36.35 | 36.35 | ---- | 34.34 | 36.47 | 36.77 | 36.95 | 37.07 | 36.99 | ---- |
| 24 | ---- | 36.37 | 36.35 | 36.35 | ---- | 34.83 | 36.50 | 36.81 | 36.97 | 37.14 | 36.93 | ---- |
| 25 | ---- | 36.30 | 36.34 | 36.36 | ---- | 35.39 | 36.53 | 36.81 | 36.99 | 37.13 | 36.94 | ---- |
| 26 | ---- | 36.42 | 36.32 | 36.38 | ---- | 35.66 | 36.45 | 36.83 | ---- | 37.02 | 36.95 | ---- |
| 27 | ---- | 36.45 | 35.80 | 36.44 | ---- | 35.84 | 36.45 | 36.85 | ---- | 37.02 | 36.96 | ---- |
| 28 | ---- | 36.43 | 35.80 | 36.44 | ---- | 35.94 | 36.49 | 36.85 | 36.99 | 37.04 | 36.90 | ---- |
| 29 | ---- | 36.47 | 35.83 | 36.39 | ---- | 35.99 | 36.53 | 36.86 | 36.99 | 37.06 | 36.91 | ---- |
| 30 | ---- | ---- | 35.62 | 36.32 | ---- | 36.12 | 36.53 | 36.89 | 37.02 | 37.01 | 36.92 | 36.71 |
| 31 | ---- | ---- | 35.62 | ---- | ---- | ---- | 36.60 | 36.89 | ---- | 36.99 | ---- | 36.70 |

PUBLICATIONS OF COOPERATIVE GROUND-WATER PROGRAM

## Report

Ground-water resources of the Indianapolis area, Marion County, Ind. C. L. McGuinness. Indiana Department Conservation, Division Geology. 1943

## Bulletins

No. 1 Memorandum concerning a pumping test at Gas City, Indiana. J. G. Ferris, Indiana Department of Conservation, Division of Water Resources. 1945.

2 A preliminary report of the ground-water levels of the State based on records of twenty-six observation wells for which long time records are available. Indiana Department of Conservation, Division of Water Resources. 1946 (Out of print).

3 Ground-water resources of St. Joseph County, Indiana. Part 1, South Bend area. F. H. Klaer, Jr., and R. W. Stallman. Indiana Department of Conservation, Division of Water Resources. 1948.

4 Ground-water resources of Boone County, Indiana. E. A. Brown. Indiana Department of Conservation, Division of Water Resources. 1949.

5 Ground-water resources of Noble County, Indiana. R. W. Stallman and F. H. Klaer, Jr. Indiana Department of Conservation, Division of Water Resources. 1950.

7 Water-level records of Indiana. Indiana Department of Conservation, Division of Water Resources. 1956.

8 Ground-water resources of Tippecanoe County, Indiana. Appendix, Basic Data. J. S. Rosenshein and O. J. Cosner. Indiana Department of Conservation, Division of Water Resources. 1956.

8 Ground-water resources of Tippecanoe County, Indiana. J. S. Rosenshein. Indiana Department of Conservation, Division of Water Resources. 1958 (1959).

9 Ground-water resources of Adams County, Indiana. F. A. Watkins, Jr., and P. E. Ward. Indiana Department of Conservation, Division of Water Resources. 1962.

10 Ground-water resources of northwestern Indiana. Preliminary Report: Lake County. J. S. Rosenshein. Indiana Department of Conservation, Division of Water Resources. 1961.

11 Ground-water resources of west-central Indiana. Preliminary Report: Greene County. F. A. Watkins, Jr., and D. G. Jordan. Indiana Department of Conservation, Division of Water Resources. 1961.

Bulletins--Continued

12 Ground-water resources of northwestern Indiana. Preliminary Report: Porter County. J. S. Rosenshein. Indiana Department of Conservation, Division of Water Resources. 1962.

13 Ground-water resources of northwestern Indiana. Preliminary Report: La Porte County. J. S. Rosenshein and J. D. Hunn. Indiana Department of Conservation, Division of Water Resources. 1962.

14 Ground-water resources of west-central Indiana. Preliminary Report: Sullivan County. F. A. Watkins, Jr., and D. G. Jordan. Indiana Department of Conservation, Division of Water Resources. 1962.

15 Ground-water resources of northwestern Indiana. Preliminary Report: St. Joseph County. J. S. Rosenshein and J. D. Hunn. Indiana Department of Conservation, Division of Water Resources. 1962.

16 Ground-water resources of west-central Indiana. Preliminary Report: Clay County. F. A. Watkins, Jr., and D. G. Jordan. Indiana Department of Conservation, Division of Water Resources. 1962.

17 Ground-water resources of west-central Indiana. Preliminary Report: Vigo County. F. A. Watkins, Jr., and D. G. Jordan. Indiana Department of Conservation, Division of Water Resources. 1963.

18 Ground-water resources of west-central Indiana. Preliminary Report: Owen County. F. A. Watkins, Jr., and D. G. Jordan. Indiana Department of Conservation, Division of Water Resources. 1963.

19 Ground-water resources of northwestern Indiana. Preliminary Report: Marshall County. J. S. Rosenshein and J. D. Hunn. Indiana Department of Conservation, Division of Water Resources. 1964.

20 Ground-water resources of northwestern Indiana. Preliminary Report: Fulton County. J. S. Rosenshein and J. D. Hunn. Indiana Department of Conservation, Division of Water Resources. 1964.

21 Ground-water resources of west-central Indiana. Preliminary Report: Putnam County. F. A. Watkins, Jr., and D. G. Jordan. Indiana Department of Conservation, Division of Water Resources. 1964.

22 Ground-water resources of northwestern Indiana. Preliminary Report: Starke County. J. S. Rosenshein and J. D. Hunn. Indiana Department of Conservation, Division of Water Resources. 1964.

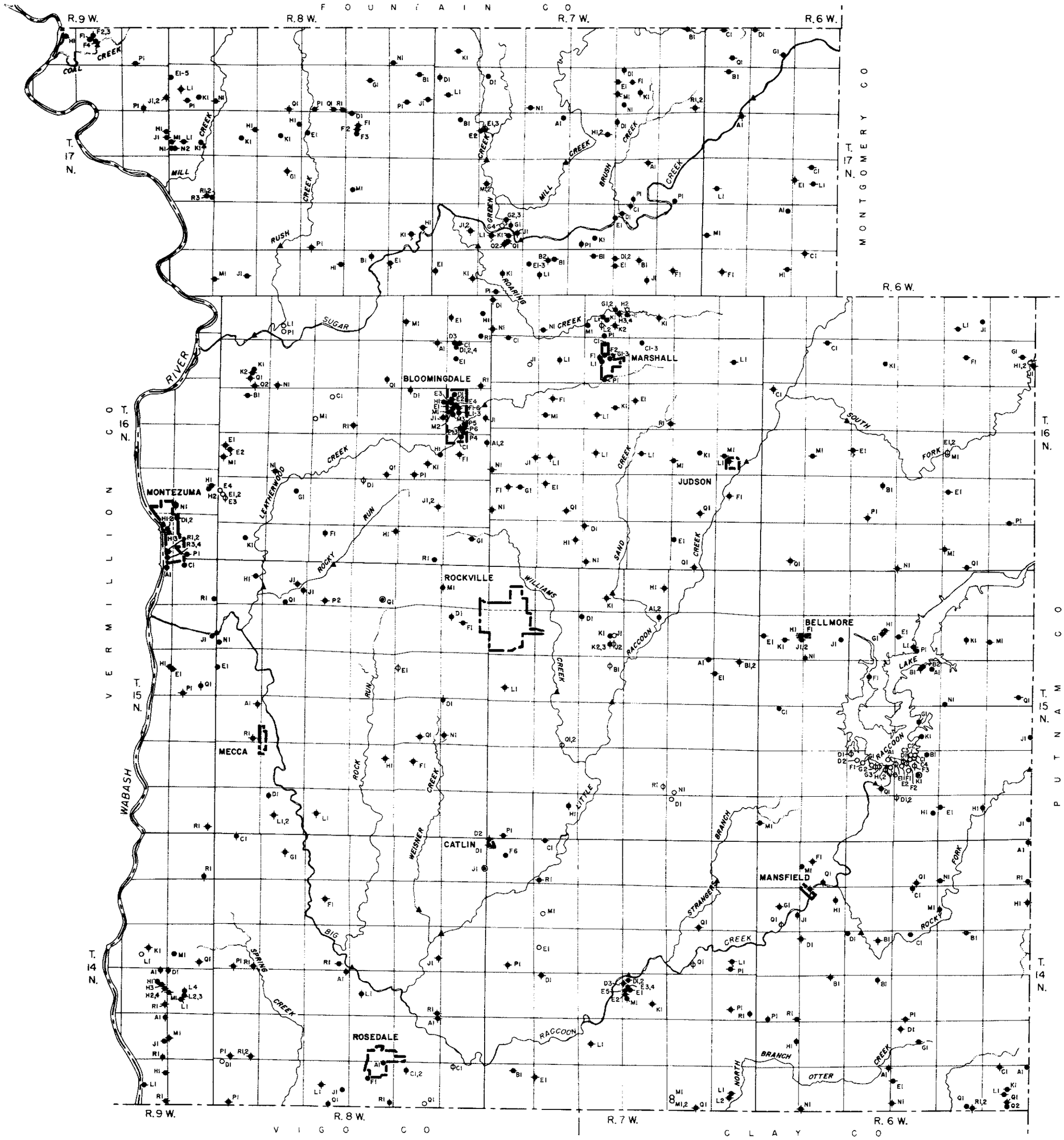
23 Ground-water resources of west-central Indiana. Preliminary Report: Parke County. F. A. Watkins, Jr., and D. G. Jordan. Indiana Department of Conservation, Division of Water Resources. 1964.

# INDEX

STATE OF INDIANA
INDIANA DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

PREPARED BY THE
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

# BULLETIN 23 PLATE I




## EXPLANATION

- ● BI — Water well
- ◉ R5 — Observation well
- ⚲ QI — Spring
- ○ RI — Oil well, test hole, or hole drilled for purposes other than water supply
- ● PI — Well for which log is listed in table 5
- ● C2 — Well or spring for which field chemical analysis is listed in table 6 or 7
- ▲ — Stream-water sampling site—field chemical analysis of water in table 8

Base modified from Indiana Department of Conservation, Geological Survey, Base Map No. 61 of Parke County, November 1, 1957

| | | | | | |
|---|---|---|---|---|---|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

DIAGRAM OF TOWNSHIP

## MAP OF PARKE COUNTY, INDIANA, SHOWING LOCATION OF WELLS AND SPRINGS

0 1 2 3 4 5 6 MILES
0 5000 10 000 15000 20000 FEET

BY F. A. WATKINS, JR. AND D. G. JORDAN
1961

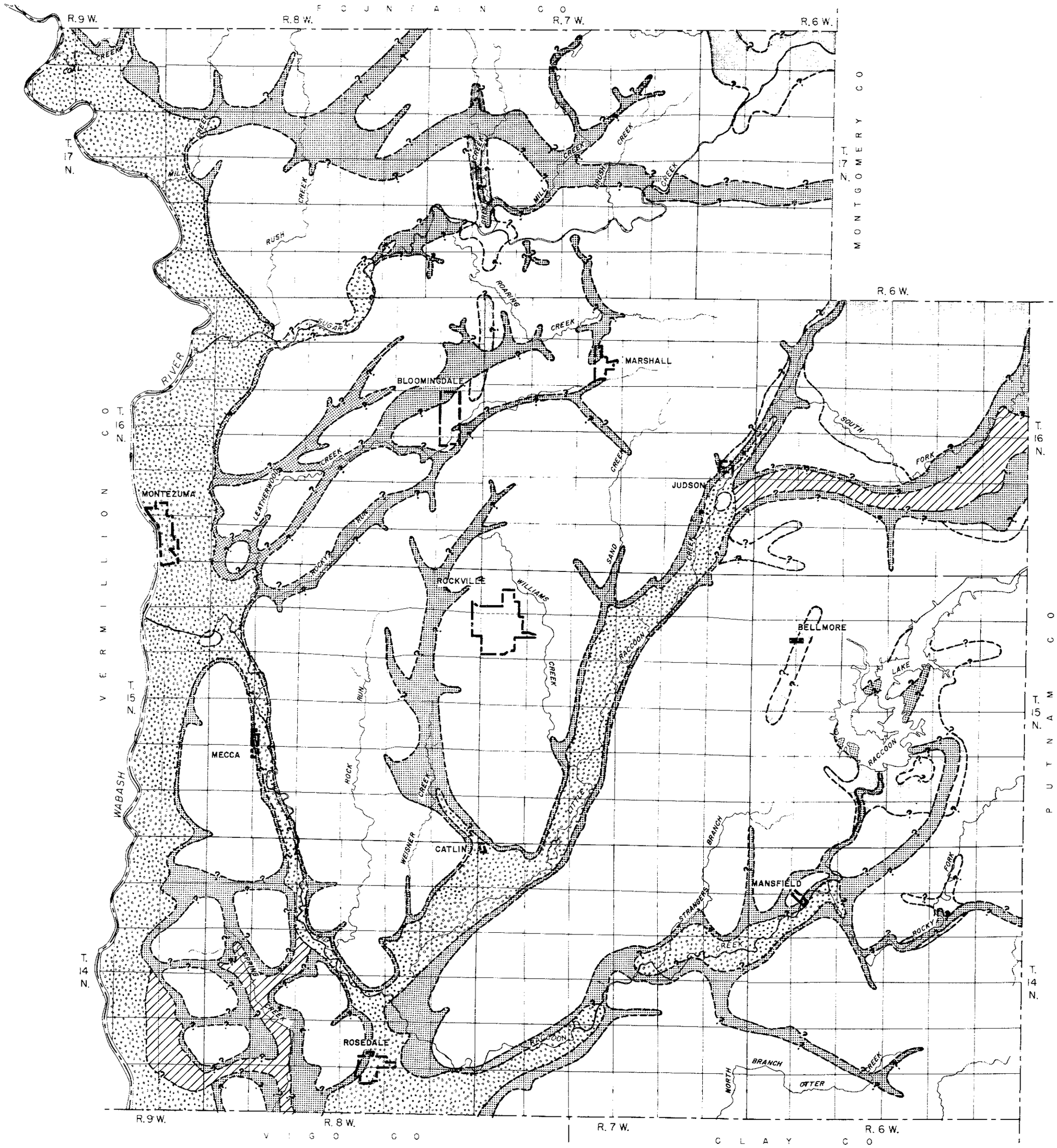
| | | | |
|---|---|---|---|
| D | C | B | A |
| E | F | G | H |
| M | L | K | J |
| N | P | Q | R |

SECTION LETTER SYMBOLS IN WELL-NUMBERING SYSTEM

STATE OF INDIANA
INDIANA DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

PREPARED BY THE
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BULLETIN 23 PLATE 2




## EXPLANATION

**Production from sand and gravel**

Water from sand and gravel of Pleistocene age overlain by Recent alluvium. Well depths range from 20 to 150 feet. Yields more than adequate for domestic and stock use. Area of municipal and irrigation pumpage and relatively large yields

Water from sand and gravel of Pleistocene age overlain by till. Well depths range from 50 to 130 feet. Yields more than adequate for domestic and stock use. Area in which large yields may be possible

Water from sand and gravel lenses and stringers interbedded with till or overlain by recent alluvium. Well depths range from 30 to 130 feet. Yields more than adequate for domestic and stock use. Some wells cased through the sand and gravel and tap the underlying bedrock

**Production from bedrock**

Water predominately from sandstone of Pennsylvanian age. Well depths range from 40 to 350 feet. Yields generally adequate for domestic and stock use

Water from limestone, sandstone, and siltstone of Mississippian age. Well depths range from 50 to 400 feet. Yields generally adequate for domestic and stock use

Boundary approximate

Boundary uncertain

# MAP OF PARKE COUNTY, INDIANA, SHOWING AVAILABILITY OF GROUND WATER

0 1 2 3 4 5 6 MILES
0 5000 10000 15000 20000 FEET

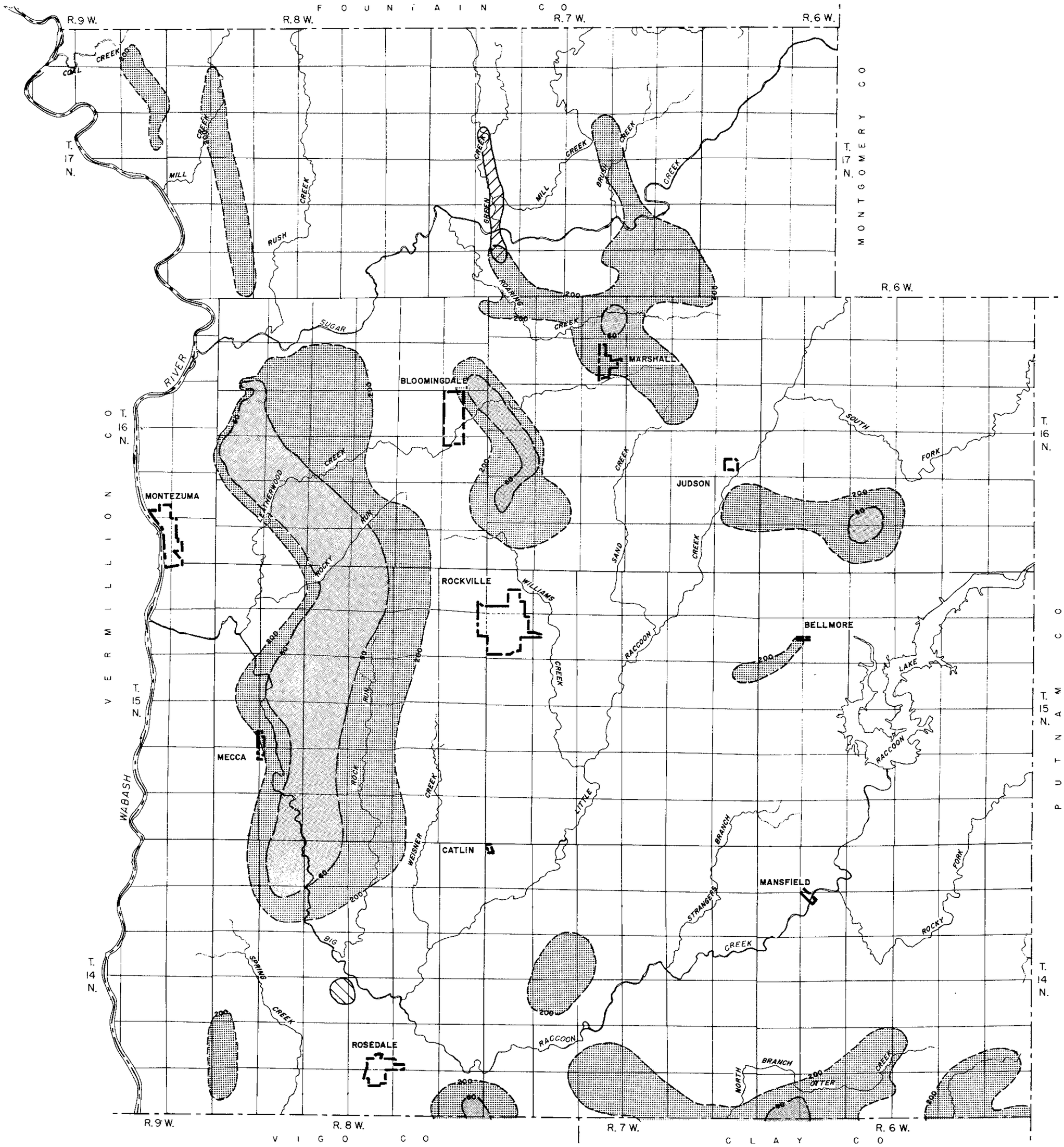
BY F. A. WATKINS, JR. AND D. J. JORDAN
1961

Base modified from Indiana Department of Conservation, Geological Survey, Base Map No. 61 of Parke County, November 1, 1957

STATE OF INDIANA
INDIANA DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

PREPARED BY THE
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BULLETIN 23 PLATE 3




EXPLANATION

Hardness near 0 to 60 ppm.

Hardness 61 to 200 ppm.

Hardness more than 200 ppm.

Area of chloride content in excess of 250 ppm. at a minimum depth of 132 feet

Area of sulfate content in excess of 250 ppm. at a minimum depth of 82 feet

Boundary approximate

Boundary uncertain

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 | 5 | 4 | 3 | 2 | 1 | |
| 7 | 8 | 9 | 10 | 11 | 12 | |
| 18 | 17 | 16 | 15 | 14 | 13 | |
| 19 | 20 | 21 | 22 | 23 | 24 | |
| 30 | 29 | 28 | 27 | 26 | 25 | |
| 31 | 32 | 33 | 34 | 35 | 36 | |

DIAGRAM OF TOWNSHIP

# MAP OF PARKE COUNTY, INDIANA, SHOWING HARDNESS OF GROUND WATER

0 1 2 3 4 5 6 MILES

0 5000 10000 15000 20000 FEET

BY F. A. WATKINS, JR. AND D. J. JORDAN

1961

Base modified from Indiana Department of Conservation, Geological Survey, Base Map No. 61 of Parke County, November 1, 1957