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GROUND-WATER RESOURCES OF NORTHWESTERN INDIANA

Preliminary Report: Pulaski County

Prepared by the

GEOLOGICAL SURVEY

UNITED STATES DEPARTMENT OF THE INTERIOR

In cooperation with the

DIVISION OF WATER RESOURCES

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Donald E. Foltz, Director

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Charles H. Bechert, Director

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BY

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GEOLOGISTS, U. S. GEOLOGICAL SURVEY

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ABSTRACT

Pulaski County, in northwestern Indiana, has an area of about 433 square miles. Glaciofluvial sand and gravel of Pleistocene age is the chief source of ground water for domestic, stock, industrial, and some public supplies. Wells that tap this source generally are less than 150 feet deep and yield from 5 to 800 gpm (gallons per minute). The underlying bedrock also is used as a source of ground water. The rocks of Silurian and Devonian age are extensively used in the southwestern and northwestern parts of the county for domestic, stock, and public supplies. Wells that tap these sources generally are less than 300 feet deep and yield as much as 1,000 gpm. Water from the rocks of Silurian, Devonian, and Pleistocene age varies in chemical quality. Field chemical analyses show that the hardness of water from rocks of Pleistocene age is generally greater than 120 and less than 400 ppm (parts per million). The hardness of water from rocks of Silurian and Devonian age is generally greater than 100 and less than 350 ppm. In much of the county the concentration of iron from the rocks of Pleistocene age exceeds the maxium concentration recommended in the U. S. Public Health Service drinking-water standard for iron and manganese together.

This preliminary report contains tabulated records of about 370 wells and test holes giving information about well construction, water level, condition of occurrence, and characteristics of water-bearing material; selected logs for about 90 wells and test holes giving driller's description of material penetrated and authors' interpretation of their geologic age; results of about 275 field chemical analyses giving hardness of water and the bicarbonate, chloride, iron, and sulfate contents; and water levels in 6 observation wells indicating the magnitude of short-term 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 base map of Pulaski County shows the location of each well or test hole listed in this report. Additional maps show the availability of ground water in the county and the areal distribution of hardness of water from the consolidated rocks of Silurian and Devonian age and the unconsolidated rocks of Pleistocene age.

INTRODUCTION

Purpose and Scope

An investigation of the ground-water resources and geology of 10 counties in northwestern Indiana has been in progress since June 1954. 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 eighth of a series of preliminary reports to be published on the ground-water resources and geology of northwestern Indiana. The purpose of the 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 geology as an aid to development of ground-water resources. A more detailed and comprehensive analysis is in progress and 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 C. M. Roberts, district geologist for Indiana.

Location and Areal Extent

Pulaski County is in the northwestern part of Indiana (fig. 1). The county is rectangular and includes about 433 square miles. It is bounded on the north by Starke County, on the south by Cass and White Counties, on the west by Jasper County, and on the east by Fulton County.

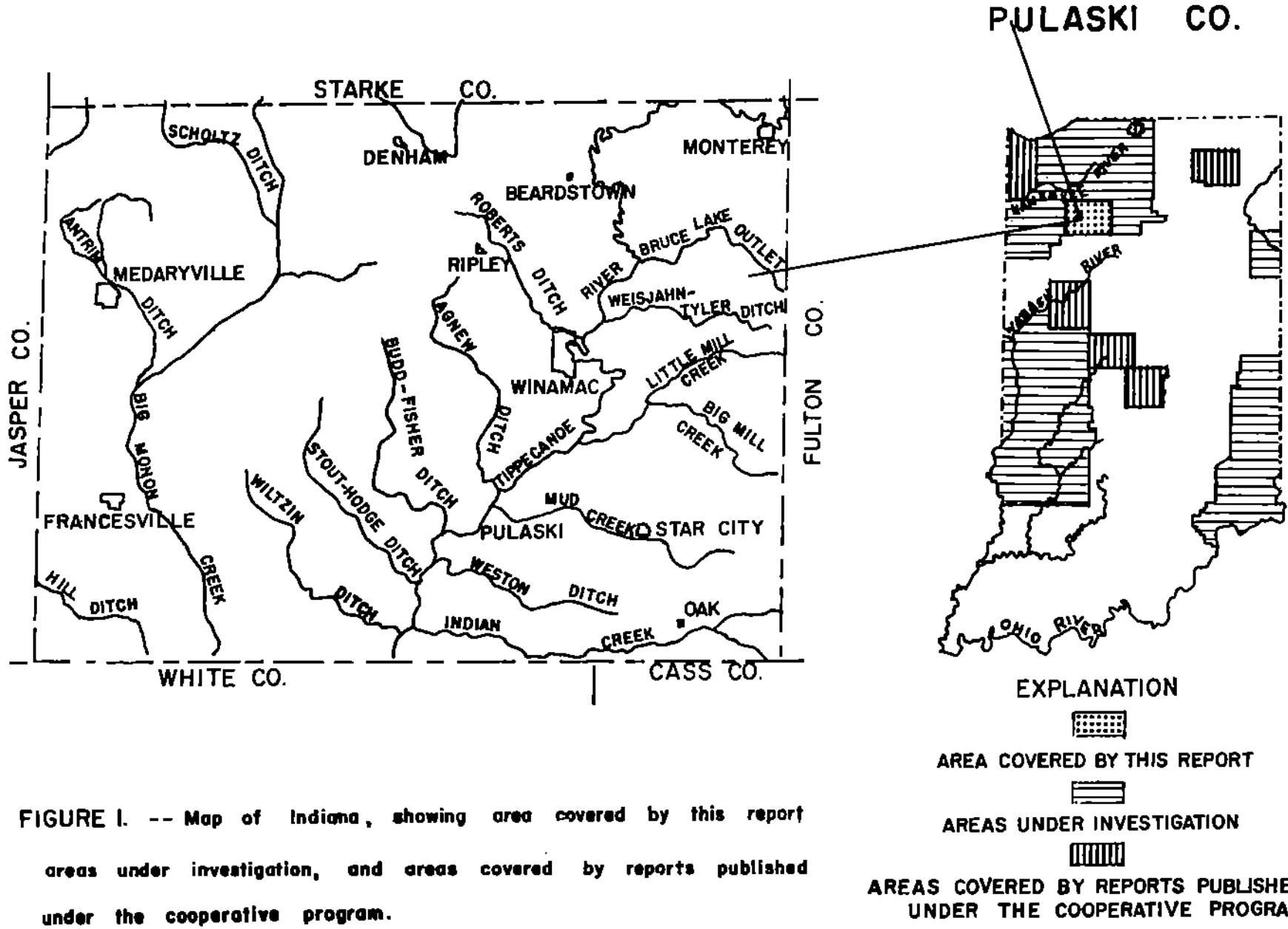

FIGURE I. -- Map of Indiana, showing area covered by this report areas under investigation, and areas covered by reports published under the cooperative program.

Well-Numbering System

A numbering system is used to locate and identify the wells and test holes in this report. The number that is assigned each well or test hole indicates its location according to the official rectangular public-land survey. For example, in the number for well 30/1W-36E1, the numbers preceding the hyphen indicate that the well is in T. 30 N., R. 1 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 assigned a letter symbol as shown on figure 2. Within the quarter-quarter section the wells and test holes are numbered consecutively. Therefore, well 36E1 is the first well listed in SW¼NW¼ sec. 36, T. 30 N., R. 1 W.

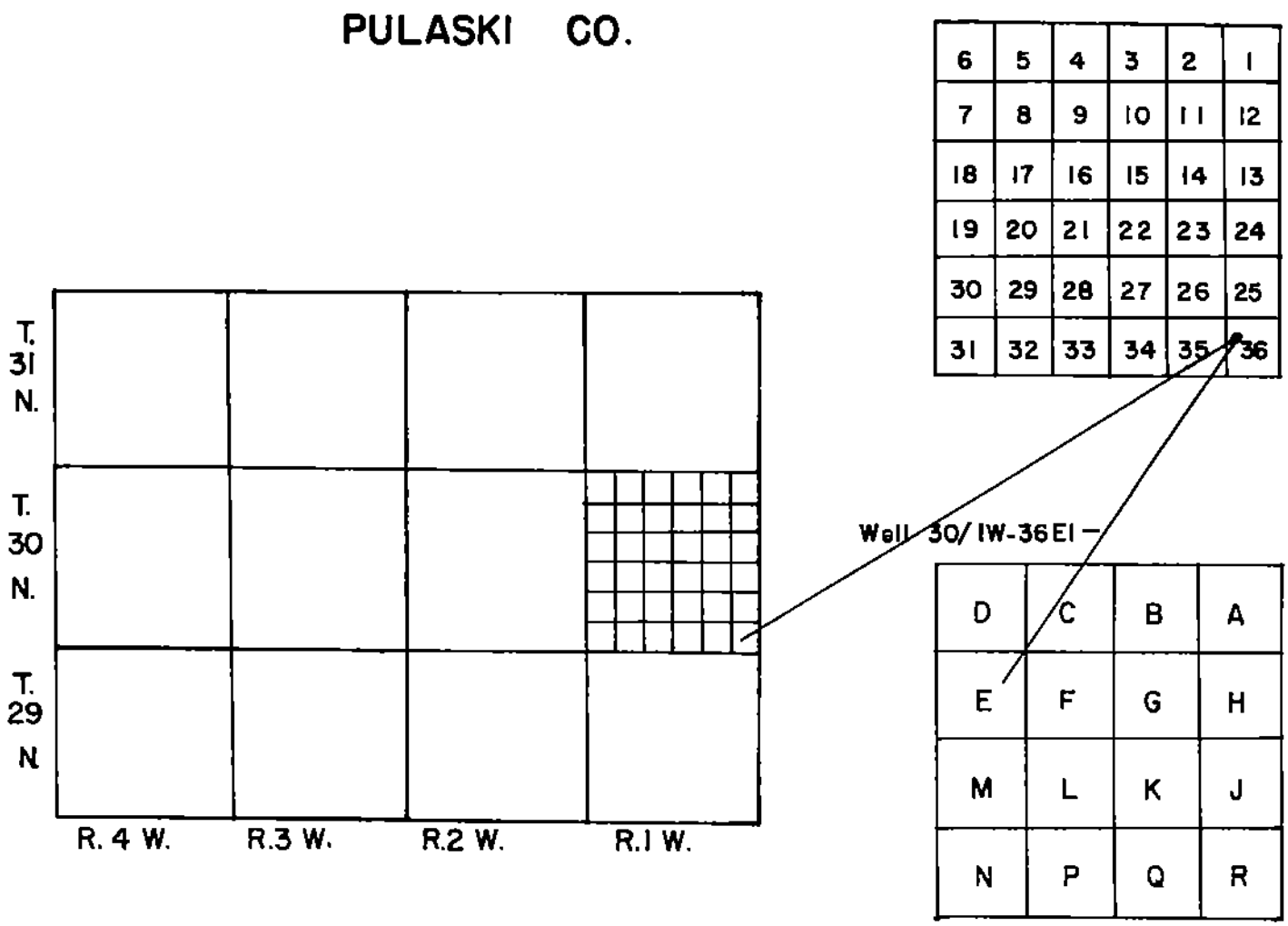

FIGURE 2. - Sketch showing well-numbering system.

Acknowledgments

The authors thank all persons who contributed time, information, and assistance during the collection, tabulation, and processing of data for this report. R. J. Vig, formerly of the Geological Survey, assisted in processing the data in the field. Well drillers, whose names are listed in the table of well records, furnished information summarized in tables 3 and 4.

The authors also thank the following government agencies which provided information for the report: Divisions of Oil and Gas and Water Resources, Indiana Department of Conservation and Indiana State Board of Health.

DATA COLLECTION AND PROCESSING

The well data were collected principally from drillers, water-works superintendents, and owners. The well records obtained from the drillers were of two types--written records and reports from memory. Tentative driller's locations were 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 locations of wells were checked further in the field if major discrepancies existed between the reported location and the property record in the plat books, if the location given could not be verified from county records, or if the verified location was not sufficiently accurate to be used.

Planimetric maps were prepared for the areas not covered by standard 7½ minute quadrangle maps of the U. S. Geological Survey so that wells and test holes could be accurately located in the field. These maps were compiled with a vertical sketch-master from aerial photographs using the horizontal control shown on original manuscript copy, scale 1:25,000, of the Army Map Service.

Plate 1 shows the location of water wells and test holes and test holes drilled for purposes other than water supply. Most of these locations are shown to the nearest 10 acres. The basic data for these wells and test holes are summarized in table 3. In addition, selected driller's logs of wells and test holes are given in table 4.

Samples of water were collected at the time well sites were visited. These water samples were analyzed in the field office for hardness of water and alkalinity (expressed as bicarbonate) and chloride and sulfate contents by standard titration methods. The iron content of the water was determined at the well site immediately after the sample was collected. A visual method was used to determine the iron concentration in parts per million by matching the color of the treated sample to that of a liquid-color standard having a known iron concentration. The results of the field chemical analyses (table 5) were used to select sites for collecting larger water samples for more comprehensive chemical analyses by the laboratory of the U. S. Geological Survey.

Observation wells were established prior to and during the investigation in order to obtain relative changes in storage in the ground-water reservoir. Table 6 contains the water-level data collected from these wells. The observation wells were chosen so as to obtain water-level information from artesian

and water-table aquifers. Wherever possible, the wells were established at sites where the factors affecting the water levels in the aquifer were due chiefly to natural causes.

GENERAL GEOLOGY AND SOURCES OF GROUND WATER

The oldest known consolidated rocks underlying Pulaski County are of Ordovician age. These rocks consist of dolomite, dolomitic limestone, and shale. The rocks of Ordovician age are not used as a source of water supply in the county because they generally lie about 550 to 600 feet below the surface and contain water that generally has a dissolved solids content of more than 5,000 ppm (parts per million).

The rocks of Ordovician age are overlain by dolomitic limestone, shale, and dolomite of Middle Silurian age. These rocks are utilized extensively in the southwestern part of the county as a source of water for domestic, stock, and public supplies. Wells that tap this aquifer are generally less than 200 feet deep and yield as much as 150 gpm (gallons per minute). Much of the material of Silurian age listed in table 3 as limestone or limestone (?) is either dolomitic limestone or dolomite.

The rocks of Silurian age are overlain by dolomitic limestone of Middle Devonian age. These rocks underlie blue-black bituminous shale of Devonian age (Logan, 1932) or Devonian and Mississippian age (Patton, 1956). The dolomitic limestone of Middle Devonian age is used extensively in the northwestern part and locally in other parts of the county for domestic, stock, and public supplies. Wells that tap this aquifer are generally less than 300 feet deep and yield as much as 1,000 gpm. The shale of Devonian and Mississippian (?) age is not extensively used as a source of water in Pulaski County and the quantity and quality of water available from this rock in uncertain.

The bedrock is overlain by unconsolidated glacial drift of Pleistocene age. The drift forms several topographic features in the county (Leverett and Taylor, 1915, pl. 6; Wayne, 1958) such as the ground moraine in the southeastern part; the glaciolacustrine plains in the extreme southwestern part; and the sand-covered glaciofluvial plains in the rest of the county.

The unconsolidated rocks of Pleistocene age range in thickness from less than 10 to more than 200 feet. The rocks consist chiefly of glaciofluvial sand and gravel, clayey till, some glaciolacustrine clay and silt, and wind-blown sand. The glaciofluvial sand and gravel is locally more than 90 feet thick and is the chief source of ground water in most of the county for domestic and stock, industrial, and some public supplies. Wells that tap this aquifer are generally less than 150 feet deep and yield from 5 to 800 gpm.

The unconsolidated rocks of Pleistocene age are overlain locally by thin alluvium, wind-blown sand, and organically rich sand, silt, and clay of Recent age. The deposits of Recent age are generally too thin to be a source of ground water.

Plate 2 shows the availability of ground water in the consolidated and unconsolidated rocks underlying the county. Plate 3 shows the areal distribution of hardness of water from the rocks of Silurian and Devonian age. Table 1 indicates the significance of the various constituents and properties of the water that are listed in table 5.

The water from the rocks of Silurian age is hard to very hard. The hardness is generally greater than 200 and less than 350 ppm. The range in concentration of selected constituents and properties is summarized in the table below.

Constituent or property	Minimum (ppm)	Mode (ppm)	Maximum (ppm)
Iron (Fe)----------	<0.1	---	3
Bicarbonate (HCO_3)---------	205	267	508
Sulfate (SO_4)----------	<5	---	170
Chloride (Cl)----------	<4	---	64
Hardness as $CaCO_3$----------	164	217	652

This table shows the minimum, mode, and maximum concentrations of various constituents and properties of water from rocks of Silurian age.

Table 1.--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 objectionable 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 decomposes 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 present in large amounts in combination with sodium. Increases the corrosiveness of water when present in large amounts.

a/ Adapted in part from Palmquist and Hall (1961), p. 34-36

Table 1.--Cont.

Constituent or property	Significance
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.

The water from the rocks of Devonian age is moderately hard to very hard. The hardness is generally greater than 100 and less than 200 ppm. The range in concentration is selected constituents and properties from this source is summarized in the table below.

Constituent or property	Minimum (ppm)	Mode (ppm)	Maximum (ppm)
Iron (Fe)----------	<0.1	---	7.5
Bicarbonate (HCO_3)---------	220	310	893
Sulfate (SO_4)----------	<5	8	150
Chloride (Cl)----------	<4	6	80
Hardness as $CaCO_3$----------	76	150	332

Plate 4 shows the areal distribution of hardness of water from the rocks of Pleistocene age. The water is soft to very hard. The hardness is generally greater than 120 and less than 400 ppm. In much of the county the iron content from this source exceeds the maximum concentration recommended in the U. S. Public Health Service drinking-water standard for iron and manganese together. The range in concentration of selected constituents and properties is summarized below.

Constituent or property	Minimum (ppm)	Mode (ppm)	Maximum (ppm)
Iron (Fe)----------	<0.1	---	>7.5
Bicarbonate (HCO_2)----------	73	323	464
Sulfate (SO_4)----------	<5	40	250
Chloride (Cl)----------	<4	6	156
Hardness as $CaCO_3$----------	36	288	512

CONFINED AND UNCONFINED CONDITIONS

Ground water occurs in the consolidated and unconsolidated rocks of Pulaski County under confined (artesian) conditions or under unconfined (water-table) conditions. Under confined conditions the aquifer (water-yielding material) is overlain directly by relatively imprevious material, and the water will rise above the level at which it is encountered in the aquifer. Under unconfined conditions the aquifer is overlain directly by permeable unsaturated material, and the water will not rise above the level at which it is encountered.

TYPES OF WELLS

Drilled, driven, and jetted wells are the principal types of water wells used in Pulaski County. Most water wells 3-inches or more in diameter are constructed by the cable-tool or percussion method. Where the water-bearing material is sand and gravel, the well is generally finished with a well screen set in the aquifer below the bottom of the well casing. (See Rosenshein and Cosner, 1956, p. 6, for a detailed description of a well screen.) A modification of this type of well, the gravel-packed well, has a gravel lining inserted between the well screen and the water-bearing material. Where the water-bearing material is consolidated rock, the well casing is generally driven a short distance into the rock, and the well is finished as an open hole.

Water wells less than 3-inches in diameter are constructed in unconsolidated material by driving or jetting. The driven well consists of a small-diameter pipe having a drive point attached to the end, which is driven into shallow water-bearing material. The jetted well is constructed by forcing water under pressure out of a hollow-rod or small-diameter drill pipe that is fitted with a jetting bit. As the material is washed out of the hole ahead of the casing, the casing is driven down into the hole. After the water-bearing material is penetrated the well is generally finished with a well-point screen set in the water-bearing material below the bottom of the casing. Table 2 relates the grain-size in inches and millimeters to the slot and the gauze size of screens commonly used in water wells.

Table 2.--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 - .25	6 - 10	90 - 60
Very fine sand	.002 - .005	.062 - .125	- - -	- - -
Silt	.00015 - .002	.004 - .062	- - -	- - -
Clay	<.00015	<.004	- - -	- - -

SUMMARY

Preliminary evaluation of the basic data shows that adequate quantities of ground water are available in much of the county for domestic, stock, public, and industrial supplies from sand and gravel of Pleistocene age. The underlying bedrock also is used as a source of water. The dolomite and dolomitic limestone of Silurian and Devonian age are used extensively in the southwestern and northwestern parts of the county for domestic, stock, and public supplies.

The chemical quality of water from the rocks of Silurian, Devonian, and Pleistocene age varies. The water from the rocks of Silurian and Devonian age is moderately hard to very hard. The water from rocks of Pleistocene age is soft to

very hard. In much of the county the iron content from this source exceeds the U. S. Public Health Service drinking-water standards for iron and manganese together.

RECORDS

The records of about 370 wells and test holes are given in table 3. The table contains information about well construction, water levels, yields and drawdowns, conditions of occurrence, thickness and characteristics of water-bearing materials, type of pump, and other data. The altitude of the land surface at wells and test holes was interpolated from topographic maps.

Table 4 contains the selected logs of about 90 wells and test holes. This table gives the driller's description of the material encountered, pertinent remarks with regard to the material, and authors' interpretation of the geologic age of the material.

The results of about 275 partial chemical analyses of water are given in table 5. The analyses were determined in the field office of the Geological Survey. This table gives information about geologic source, temperature, concentration in parts per million of iron, bicarbonate, sulfate, chloride, and hardness (calcium, magnesism) of water. The U. S. Public Health Service standards have been established for hardness of water. However, water with respect to hardness is generally classified (Lamar, 1942, p. 25-26) as follows: 0-60 ppm soft; 61-120 ppm moderately hard; 121-200 ppm hard; more than 200 ppm very hard.

Table 6 contains the records of six observation wells of which one was established during the investigation and the rest prior to the investigation. The water levels in the observation wells were obtained either by recording gages installed on the well or by manual measurements made with an engineer's steel tape graduated to a hundredth of a foot. The water levels are in feet below land-surface datum except where otherwise noted. Daily highest water levels are given for the observation well equipped with a recording gage, and periodic water levels are given for the observation wells measured manually. Factors affecting the water levels in the observation wells are also indicated. For additional water levels see water supply papers listed under U. S. Geological Survey in selected bibliography. The location of the observation wells is shown on plate 1.

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Table 3.--Records of wells and test holes in Pulaski County, Indiana

Well: See text for description of well-numbering system.
Altitude: Altitude of land-surface datum from topographic map.
Type of well: Dn, driven; Dr, drilled; J, jetted.
Finish: Co, open end; Oh, open hole; PP, perforated pipe; S, screen, dia, diameter in inches, g, gauze size, sl, slot size.
Character: Do, dolomite; G, gravel; Ls, limestone; Sd, sand; Sh, shale.
Geologic age: D, Devonian; M, Mississippian; Pl, Pleistocene; S, Silurian.
Condition of occurrence: C, confined; U, unconfined; see text for definition.

Water level: In feet below land-surface datum on date of completion of well, except where otherwise noted.
Use: D, domestic; De, destroyed; I, industrial; Ir, irrigation; N, not used; O, observation; P, public supply; S, stock.
Type of pump and horsepower: C, centrifugal; J, jet; L, lift; P, pitcher; S, submersible; T, turbine; numberal indicates rated horsepower of electric motor.
Remarks: Ca, field chemical analysis in table 5; dd, drawdown; E, electric log available; G, gamma ray log available; gpm, gallons per minute; l, log of well in table 4.

Well	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone					Water level (feet)	Use	Type of pump and horsepower	Remarks
									Depth to top (feet)	Thickness (feet)	Character	Geologic age	Conditions of occurrence				
29/1W- 1F1	W. F. Bauman	----------	About 1831	744	Dn	18	1¼	S; 3ft	----	------	G	Pl	U	---	D	L	Ca.
3N1	N. Hiatt	J. Masters	10-17-59	728	J	50	2	S; 3½ft, 10sl, dia 1¼	21	20	G,Sd	Pl	C	9	S	--------	Yield 12 gpm; Ca, L.
4F1	W. Phillips	----------	5-24-60	732	J	100	2	----do----------	----	------	Sd	Pl	----	30	D,S	--------	Yield 12 gpm; Ca.
8C1	D. Cohagan	Fisher Bros. Well Drilling Co.	4-58	713	J	52	2	S; 3ft, 60g	20	26	Sd,G	Pl	C	12	P	J1/2	Quicksand and gravel overlain by 20 ft clay; Ca.
8F1	Mr. Brown	J. Masters	0- 3-58	718	J	54	2	----do----------	----	------	Sd,G	Pl	C	13	P	L1/3	Ca.
8F2	F. Fritz	D. Henderson	12- 4-60	718	Dr	57	4	Co	46	11	G	Pl	C	12	D	--------	Yield 18 gpm; Ca, L.
8F3	E. Dewitt	----do----------	9- 9-60	718	Dr	76	4	S; 4ft, 10sl, dia 3½	42	34	Sd	Pl	C	15	D	--------	Yield 15 gpm; L.
8G1	L. Seibert	----------	8- 1-59	718	J	50	2	S; 3½ft, 10sl, dia 1¼	----	------	Sd	Pl	C	14	D	--------	Yield 10 gpm.
8K1	Pulaski Farm Bureau Coop.	J. D. Ortman and Son	8-58	718	Dr	147	4	S	----	------	Sd,G	Pl	C	14	D	J1/2	Ca.
8L1	D. Greivis	J. Masters	6-12-58	716	J	100	2	S; 3ft, 60g	92	8	G	Pl	C	12	D	J1/3	Ca, L.
8L2	Pulaski Farm Bureau Coop.	J. D. Ortman and Son	3-19-59	718	Dr	55	4	S	----	------	Sd,G	Pl	C	14	I,P	J1/2	Ca.
8L3	M. Wirick	J. Masters	8- 8-58	719	J	64	2	S; 3½ft, 10sl, dia 1¼	42	22	G,Sd	Pl	C	17	D	J1/2	Yield 11 gpm; water level 14 ft below lsd, 4-1-61; Ca, L.
8L4	A. Abbot	----------	--------	719	J	60	2	S; 3ft, 10 sl, dia 1¼	----	------	Sd,G	Pl	C	14	D	L	Yield 10 gpm.
8L5	L. Warner	J. Masters	3-31-61	718	J	60	2	S; 3½ft, 12sl, dia 1¼	36	24	G,Sd	Pl	C	14	D	L	Yield 13 gpm; Ca, L.
8L6	G. Fahler	----do----------	4- 7-61	719	J	62	2	----do----------	----	-------	Sd,G	Pl	C	15	D	--------	Yield 15 gpm; Ca, L.
8L7	K. A. Groom	D. Henderson	1961	718	J	60	2	S; 3ft, 10sl, dia 1¼	----	------	G	Pl	C	12	D	L	Yield 12 gpm; Ca, L.
8M1	L. Wacknitz	J. Masters	4-57	714	J	50	2	S; 3ft, 60g	43	7	G	Pl	C	10	D	J1/2	See log well 8P2.
8P1	Indiana Packing Company	D. Henderson	8-57	713	Dr	144	4	S; 10ft, 25sl	105	39	Sd	Pl	C	27	I	S1 1/2	See log well 8P4.
8P2	P. Ortman	J. Masters	3-31-58	715	J	50	2	S; 3½ft, 12sl, dia 3½	38	12	G	Pl	C	12	D	J1/2	Yield 12 gpm; water level 14 ft below lsd, 5-20-60; Ca, L.
8P3	G. Crissinger	----------	--------	715	Dn	32	1¼	S; 3ft, 10sl, dia 1¼	----	------	G	Pl	C	10	D	--------	
8P4	H. Wright	J. Masters	8-20-59		J	148	2	S; 3½ft, 12sl, dia 1¼	106	42	G,Sd	Pl	C	13	D	--------	Yield 12 gpm; Ca, L.
8P5	K. Lucas	D. Henderson	7-31-60	713	J	95	2	S; 3ft, 10sl, dia 1¼	87	8	G	Pl	C	10	D	--------	Yield 12 gpm; L.
8Q1	Christian Church Parsonage	J. Masters	4-29-58	712	J	50	2	----------	24	26	G	Pl	C	14	P	L	Gravel overlain by 24 ft red clay.
8R1	Dr. Darco	D. Henderson	4-13-60	713	Dr	78	4	S, 6 ft, dia 3½	59	17	Sd	Pl	C	9	S	--------	Yield 20 gpm; L.
10H1	H. Soidel	Fisher Bros. Well Drilling Co.	About 1851	734	J	80	2	S	----	------	Sd	Pl	----	---	D,S	L	Ca.
11H1	C. and E. Parcel	D. Henderson	8- 5-59	740	J	36	2	S; 3ft, 10sl, dia 1¼	33	3	Sd	Pl	C	13	D	--------	Yield 12 gpm; Ca, L.
12H1	J. S. Capper	Fisher Bros. Well Drilling Co.	About 1955	780	--	105	2	S; 6 ft	----	------	G	Pl	C	16	S	J1/4	Ca.
12H2	----do----------	M. Zollers	1927	758	J	105	2	----do----------	----	------	G	Pl	C	16	D	J1/2	Ca.
13J1	H. Allen	----------	--------	750	Dn	23	1¼	S; 2½ft, 60g	----	------	G	Pl	----	8	D	L	Ca.
14P1	H. Woodko	----------	--------	731	Dn	18	1¼	S; 2½ft	----	------	G	Pl	----	---	D,S	J	Ca.
15D1	J. Murphy	----------	--------	725	Dn	30	1¼	S	----	------	G	Pl	----	5	D,S	J1/4	Ca.
15Q1	C. H. Friedrich	Fisher Bros. Well	1955	731	Dr	180	4	Oh	----	------	Ls?	D	C	15	---	J1	Water reported to irritate skin; bedrock at 70 ft; well originally drilled to 110 ft; Ca.

29/1W-15Q2	C. H. Friedrich	Fisher Bros. Well Drilling Co.	--------	731	J	67	2	S; 3ft	-----	-------	G	Pl	C	13	D,S	J1/3	Ca.
17J1	W. B. Phillips	J. Masters	--------	718	Dn	42	1½	----do----------	-----	-------	G	Pl	---	15	D,S	J1/4	Ca.
18D1	R. Abbott	Fisher Bros. Well Drilling Co.	About 1946	711	J	22	2	----do----------	-----	-------	G	Pl	---	---	D	L1/4	
19M1	W. Bonnell	J. Masters	6-24-59	711	J	62	2	S; 3½ft, 60g, dia 1½	25	37	Sd,G	Pl	C	14	D,S	--------	Yield 10 gpm; Ca, L.
22Q1	J. L. Moyer	Fisher Bros. Well Drilling Co.	About 1956	726	J	35	2	S; 3ft	-----	-------	G	Pl	---	5	D	L1/3	Ca.
24L1	E. Daily	----------	--------	740	--	30	1½	S; 2½ft	-----	-------	Sd	Pl	---	---	D,S	J	
24Q1	E. Andersen	----------	--------	732	Dn	15	1½	----do----------	-----	-------	G	Pl	U	---	D	L	Ca
26B1	D. Hacka	----------	--------	729	Dn	20	1½	S; 2½ft	-----	-------	Sd	Pl	U	10	D	L3/4	Well at barn 20 ft deep; Ca.
28G1	T. D. Lee	D. Henderson	11- 6-60	750	J	58	2	S; 3ft, 10sl, dia 1½	37	21	Sd	Pl	C	35	D	L	Yield 10 gpm; L.
28H1	R. Dennis	J. Masters	9- 8-59	728	J	66	2	S; 3½ft, 12sl, dia 1½	75	11	G,Sd	Pl	C	20	D	-------	Yield 12 gpm; Ca, L.
28K2	Mr. Moss	----------	--------	728	Dn	96	1½	S; 3ft, 10sl, dia 1½	-----	-------	Sd,G	Pl	C	---	D	--------	
29B1	R. Jump	----------	--------	716	Dn	26	1½	S; 4 ft	-----	-------	G	Pl	---	---	D,S	L1/3	Ca.
30R1	E. Cosgray	Fisher Bros. Well Drilling Co.	--------	721	J	38	2	S; 2½ft	-----	-------	Sd,G	Pl	---	---	D,S	L1/3	Well at hog house 96 ft deep, flowed when drilled in 1935; Ca.
31N1	F. Stock	J. Masters	--------	711	Dn	18	1½	S; 2½ft, 80g, dia 1½	-----	-------	G	Pl	U	8	S	L	
32P1	H. Galbreath	----------	--------	718	J	35	2	S; 3ft	-----	-------	G	Pl	---	---	D,S	J1/3	Ca.
33D1	L. Sommers	D. Henderson	3-18-59	724	Dr	108	4	Ca	78	30	Sd	Pl	C	15	D,S	J1/4	Yield 18 gpm; Ca, L.
33J1	State of Indiana	----do----------	12-28-55	722	Dr	107	4	Ch	93	14	Ls	S	C	7	P	L	Yield 20 gpm; bedrock at 93 ft; Ca, L.
33R1	A. J. McAllister	----------	--------	726	J	64	2	S; 3½ft, 10sl, dia 1½	-----	-------	Sd	Pl	---	15	D,S	-------	Yield 15 gpm; Ca.
34A1	D. Erwin	----------	About 1953	720	Dr	99	4	Ch	-----	-------	Ls	S	C	12	D,S	J1/3	Bedrock at about 80 ft; Ca.
34M1	A. Yount	J. Masters	12- 1-60	726	J	44	2	S; 3½ft, 10sl, dia 1½	-----	-------	Sd	Pl	---	21	D,S	-------	Yield 10 gpm; Ca.
35H1	E. Rouch	----------	Before 1920	735	--	90	--	----------	-----	-------	Ls?	D?	C	---	D	J1/4	Ca.
36B1	O. Batty	----------	About 1952	740	--	85	--	S; 3ft	-----	-------	G	Pl	---	---	D	J	Ca.
36C1	O. Knebel	J. Masters	8-16-60	739	J	72	2	S; 3½ft, 10sl, dia 1½	63	9	G,Sd	Pl	C	14	D,S	-------	Yield 12 gpm; Ca, L.
29/2W- 2C1	G. Dennis	C. Miller	1954	688	Dr	188	4	----------	160	26	Ls	S	C	---	D,S	J1/2	Flows; yield 5 gpm; bedrock at 160 ft; water has trace hydrogen sulfide gas; Ca.
3C1	M. and J. Roberts	G. E. Crist	8-17-58	680	J	34	2½	S; 3½ft, 60g, dia 1½	27	7	G,Sd	Pl	C	14	D	-------	Yield 9 gpm; L.
3F1	J. Newman	D. Henderson	7-20-60	680	Dr	135	4	Ca	-----	-------	G	Pl	C	1	D	P	Yield 30 gpm; Ca, L.
3G1	Dr. Carmeal	C. Miller	6- 2-48	693	J	62	2	S; 4ft	-----	-------	G	Pl	C	6	S	-------	Ca.
3M1	O. Berns	D. Henderson	8- 6-56	672	Dr	72	4	Ca	65	7	Sd	Pl	C	45	D	-------	Yield 12 gpm; Ca, L.
3M2	I. W. Tissington	B. Scheffer	1951	672	J	40	2	S; 4ft	-----	-------	Sd,G	Pl	C	---	D	J1/2	Flows; Ca.
4J1	B. Scheffer	----------	--------	680	J	37	2	S; 3ft, 60g	15	22	Sd,G	Pl	C	3	D	J1/2	Sand and gravel overlain by 15 ft blue clay.
4J2	----do----------	----------	--------	680	J	67	2	----------	42	25	Sd,G	Pl	C	3	---	-------	Sand and gravel overlain by about 42 ft clay.
4Q1	W. J. Misick	D. Henderson	8-24-59	678	J	53	2	S; 3ft, 60g, dia 1½	50	3	G	Pl	C	10	D	P	Yield 13 gpm; L.
5M1	R. Thomas	----------	--------	695	J	85	2	S	-----	-------	Sd	Pl	C	---	D,S	J	Ca.
7M1	J. Tolman	G. E. Crist	5-23-54	685	J	32	2	S; 3ft, 40g	-----	-------	G	Pl	C	7	S	L	Gravel overlain by clay.
9B1	I. and L. Roth	D. Henderson	--------	680	Dr	162	5	Ch	-----	-------	Ls	S	C	---	---	--------	Flows 5 gpm; for swimming pool; bedrock at 160 ft; Ca.
9M1	H. Crist	D. Henderson and Son	5-12-61	692	J	81	2	S; 3ft, 10sl, dia 1½	67	4	G	Pl	C	10	D	-------	Yield 15 gpm; Ca, L.
10G1	G. Scheffer	G. E. Crist	About 1956	694	J	21	2	S; 3ft, dia 1½	-----	-------	G	Pl	---	10	D,S	L	Ca.
11K1	E. Hosier	Fisher Bros. Well Drilling Co.	9- 9-59	698	Dr	68	2½	S; 3ft, 60g, dia 1½	13	55	Sd,G	Pl	C	11	D,S	J	Yield 18 gpm; Ca, L.
12A1	P. Freeman	----------	--------	704	Dn	35	1½	S; 4ft	-----	-------	Sd	Pl	---	---	D	L1/4	Ca.
14J1	M. Hughes	----------	--------	703	Dn	18	1½	S	-----	-------	Sd	Pl	U	---	D,S	J1/2	Ca.
16J1	M. Winter	----------	--------	700	Dn	18	1½	S	-----	-------	Sd	Pl	U	---	D	L	Well at barn 24 ft deep; Ca.
17F1	S. Weaver	Fisher Bros. Well Drilling Co.	8-59	683	J	28	2	S; 4ft, 60g	-----	-------	G	Pl	---	8	D	J1/3	Ca.
18B1	F. E. Brady		4-58	688	J	29	2	S; 3ft, 60g	-----	-------	Sd,G	Pl	C	10	D	J1/3	Ca, L.
19R1	M. Hostle	----------	--------	690	Dn	22	1½	S	-----	-------	Sd	Pl	---	---	D,S	J	Ca.
21D1	H. T. Smith	----------	--------	691	Dn	22	1½	S; 3ft	-----	-------	Sd	Pl	---	---	D	L	Ca.
22M1	L. Decker	----------	--------	702	--	87	2	S	-----	-------	G	Pl	---	---	D	L1/4	Ca.
23F1	J. Binkley	J. Masters	8- 8-59	708	J	98	2	S; 3½ft, 10sl, dia 1½	11	87	Sd,G	Pl	U	11	D,S	J	Yield 12 gpm; Ca, L.
24J1	F. Wagner	----do----------	4-20-60	712	J	81	2	----do----------	14	47	Sd,G	Pl	U	14	D,S	------	Yield 10 gpm; gravel overlain by 54 ft sand; Ca.
24M1	J. Ruff	F. Lyons	1942	705	Dr	848	--	----------	-----	-------	-----	---	---	---	---	------	Oil test; bedrock at 217 ft.
25J1	S. Moyer	Fisher Bros. Well Drilling Co.	About 1930	710	J	85	2	S; 3ft	-----	-------	G	Pl	---	10	D	L3/4	Ca.
25N1	Estate, J. Moyer	----------	About 1900	709	Dn	32	1½	S	-----	-------	Sd	Pl	---	---	D	L	Ca.
26D1	D. Foerg	D. Henderson	About 1952	707	J	75	2	S; 3ft	-----	-------	Sd,G	Pl	---	7	D,S	L	Ca.
28N1	E. W. Fox	----------	--------	686	J	187	2	S; 4ft	-----	-------	Sd	Pl	C	4	D,S	L	Ca.

Table 3.--Records of wells and test holes in Pulaski County, Indiana--Continued

Well	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone: Depth to top (feet)	Water-bearing zone: Thickness (feet)	Water-bearing zone: Character	Water-bearing zone: Geologic age	Water-bearing zone: Conditions of occurrence	Water level (feet)	Use	Type of pump and horsepower	Remarks
20/2W-29C1	L. Hoover	----------	--------	682	J	180	2	S	---	--------	Sd	Pl	C	5	D,S	J1/2	Ca.
30D1	R. Hamilton	E. H. Wingate	7-12-55	687	Dr	60	4	----------	---	--------	Sd,G	Pl	---	30	D	--------	Ca.
30D2	W. Cook	D. Henderson	9-15-39	687	J	42	2	----------	35	7	G	Pl	C	28	D	--------	Yield 12 gpm; L.
31E1	E. Phillips	----do----------	About 1941	686	Dr	68	4	----------	---	--------	Ls	S	C	18	D,S	J	Limestone overlain by sand and gravel; Ca.
33R1	J. C. Yount	J. Masters	About 1948	696	J	84	2	S	---	--------	Sd	Pl	C	10	D	J	Ca.
34B1	L. Hole	Mr. McKinley	1902	697	--	208	2	----------	---	--------	Ls	S	C	6	D,S	L	Ca.
35R1	A. Gerlach	----------	--------	711	J	62	2	S	---	--------	Sd,G	Pl	C	---	D,S	L	Ca.
29/3W- 4M1	W. Corvente	----------	--------	698	Dr	20	1½	S; 3½ft	---	--------	Sd	Pl	---	15	D	J1/2	Ca.
6A1	D. Kistler	D. Henderson	6-59	690	Dr	72	4	Qo	---	--------	G	Pl	C	8	D,S	L	Ca.
7D1	A. Westphal	----------	1950	697	Dn	23	1¼	S; 3ft	---	--------	Sd	Pl	U	18	D	J3/4	Ca.
9D1	H. Johnson	J. Masters	8-26-60	705	J	90	2	S; 3½ft, 10sl, dia 1½	---	--------	Sd	Pl	---	15	D	--------	Yield 10 gpm; Ca, L.
9R1	H. Saidler	D. Henderson	11-15-59	700	Dr	62	4	Qa	---	--------	G	Pl	U	15	D	--------	Dd 35 ft after 2 hr bailing 15 gpm; L.
10R1	E. H. Brady	----------	--------	697	Dn	80	1¼	S; 3ft	---	--------	Sd	Pl	---	---	D	J	Ca.
11A1	R. Foust	R. Foust	7-61	696	Dn	38	1¼	S; 3ft, 60g	---	--------	G,Sd	Pl	---	7	D,S	J1/2	Ca.
12A1	J. Tieman	----------	--------	690	Dn	20	1¼	S	---	--------	Sd	Pl	---	7	D,S	C1/3	
14A1	W. W. Fitz	----------	Before 1921	690	--	160	--	Qo	---	--------	G?	Pl?	C	---	D,S	C	Ca.
15M1	S. Kambar	----------	1957	687	Dr	104	4	Oh	64	40	Ls	S	C	8	D	J	Bedrock at 64 ft; Ca.
16A1	H. Saidler	E. H. Wingate	7-24-57	697	Dr	110	4	S; 3ft, dia 3½	---	--------	Sd,G	Pl	C	6	D,S	--------	Dd 34 ft pumping 16 gpm; Ca.
17R1	H. Dunmor	----------	About 1915	693	Dn	30	1¼	S; 2ft	---	--------	Sd	Pl	---	---	D	L	Ca.
18Q1	R. Tucker	----------	--------	697	Dn	18	1¼	S	---	--------	Sd	Pl	U	---	D,S	--------	Ca.
19J1	F. Hintz	----------	1949	702	Dn	20	1¼	S; 3ft	---	--------	Sd	Pl	U	---	S	L	Ca.
21M1	P. Lodford	----------	1946	696	Dr	62	4	----------	---	--------	G	Pl	---	8	D,S	L	Ca.
23E1	E. Horney	----------	1946	688	Dn	70	1¼	S; 3ft, 60g	---	--------	G	Pl	C	20	D,S	L	Ca.
24F1	G. Mantle	H. Scheffer	About 1930	680	Dn	47	1¼	S	---	--------	Sd	Pl	---	11	D	J1/2	Ca.
27N1	M. Polakovic	----------	--------	692	J	80	2	S	---	--------	Sd	Pl	C	56	D,S	C1/4	Ca.
29J1	H. Fields	G. E. Crist	8-10-55	684	J	45	2	S; 3ft, 60g	40	5	G	Pl	C	13	S	L	Gravel overlain by 33 ft clay and 7 ft sand.
29Q1	A. Jordan	Fisher Bros. Well Drilling Co.	1947	684	Dr	58	4	----------	---	--------	Ls?	S?	C	27	D,S	J	Ca.
30M1	L. Fitz	E. H. Wingate	1953	682	Dr	112	4	----------	---	--------	Ls	S	C	---	D,S	L1/4	Ca.
32L1	L. Finnegan	----do----------	--------	689	Dr	114	4	S; 3ft, 6sl, dia 3½	---	--------	Sd,G	Pl	C	20	S	L	Ca.
33P1	W. Dulin	----------	--------	681	Dn	60	1¼	S	---	--------	Sd	Pl	C	J	D	P	Ca.
34R1	S. Conwell	----------	--------	685	Dn	17	1¼	S; 2½ft, 60g	---	--------	Sd	Pl	U	14	D	J	Ca.
35J1	L. Nico	L. Nico	About 1941	682	Dn	68	1¼	S; 3ft	---	--------	G	Pl	C	8	D,S	J	Ca.
20/4W- 1N1	O. Odgon	Porter County Well Service	7-21-55	682	J	81	2	S; 4ft, 60g	55	6	G	Pl	C	9	D,S	J1/4	Yield 20 gpm; L.
4K1	Town of Francesville	Layne-Northern Co., Inc.	8-28-53	674	Dr	200	10	Oh	10	190	Ls	S	C	10	P	T71/2	Dd 91 ft after 8 hr pumping 150 gpm; bedrock at 9 ft; Ca, L.
4P1	B. Overmyer	M. D. Anderson	10-10-41	681	Dr	626	8	Oh	---	--------	Ls	S	C	---	O	--------	Observation well Pulaski 6; originally drilled to 663 ft; water level measured 8.51 ft below lsd, 7-3-58; E, G, L.
5R1	H. Erb	Mr. Anderson	8- 8-41	681	Dr	831	--	----------	---	--------	Do	S	---	---	---	---	Oil test; bedrock at 45 ft; L.
6P1	S. Geyer	----------	--------	684	Dn	33	2	S	---	--------	Sd	Pl	---	---	D,S	J	Ca.
8D1	G. H. Boehning	F. R. Garwood	3-27-53	680	Dr	912	8-6½	----------	---	--------	Ls	S	---	---	---	--------	Oil test; bedrock at 14 ft; L.
9C1	Town of Francesville	Layne-Northern Co., Inc.	12-23-37	681	Dr	145	8	Oh	8	136	Ls	S	C	8	P	T71/2	Dd 58 ft pumping 133 gpm; L.
9L1	J. Albrecht	H. Erb	12- 4-41	682	Dr	933	10-5½	----------	---	--------	Ls	S	---	---	---	---	Oil test; bedrock at 12 ft; see log well 8D1.
10B1	G. Parnell	----------	--------	680	--	-----	--	----------	---	--------	Sd	Pl	---	---	W	--------	Spring issuing from contact of sand underlain by clay and silt; discharge estimated 5 gpm; 7-16-58; Ca.

29/4W-10Q1	V. Snowberger	----------	---------	672	Dr	84	3	----------	44	40	Ls	S	C	---	D,S	J	Flows; bedrock at 44 ft; Ca.
13R1	S. Kopka	----------	19587	660	Dn	40	1½	S; 3ft, 60g	----	------	G	Pl	----	3	D,S	L	Ca.
14A1	L. Walker	Hofstetter Bros.	8- 1-56	671	Dr	57	4	Oh	47	10	Ls	S	C	---	D,S	J1/2	Yield 20 gpm; bedrock at 47 ft; Ca, L.
16P1	P. Albrecht	Francesville Stone Quarry	---------	676	Dr	100	6	Oh	----	------	Ls	S	C	---	D	S	Bedrock at 3 ft; limestone overlain by 3 ft soil; Ca.
17C1	J. Gutwein	O. J. Titus	---------	686	Dr	40	6	S	----	------	Sd	Pl	----	12	S	S	
17C2	----do----------	----------	---------	685	Dr	30	3	S	----	------	Sd	Pl	----	---	D	C3/4	Ca.
17J1	B. Taylor	Indiana-Michigan Oil and Gas Co.	1928	684	Dr	935	--	----------	----	------	Do	S	----	---	---	--------	Oil test; bedrock at 5 ft; L.
23R1	O. Stroll	----------	---------	677	Dr	347	4	----------	----	------	Ls?	S?	----	11	D,S	J1/2	Ca.
25R1	C. Wiegard	----------	1905	675	Dr	58	4	----------	----	------	Ls?	S?	----	---	D,S	J	Ca.
27M1	E. M. Gunnerson	E. H. Wingate	3- 8-54	677	Dr	45	4	Oh	15	30	Ls	S	C	13	D	--------	Bedrock at 15 ft; Ca.
28D1	L. Malchon	----do----------	8- 2-56	679	Dr	32	4	Oh	13	19	Ls	S	C	7	D,S	--------	Bedrock at 13 ft; Ca.
30A1	L. Nelson	----------	---------	684	Dr	80	4	Oh	25	65	Ls	S	C	---	D,S	J1/4	Bedrock at 25 ft; Ca.
31M1	J. Wiley	----------	---------	677	Dr	22	4	Oh	----	------	Ls	S	C?	---	---	--------	Formerly observation well Pulaski 5; water level measured 6.99 ft below lsd, 10-18-33.
32B1	L. A. Visscher	E. H. Wingate	9-25-59	680	Dr	120	4½	----------	20	100	Ls	S	U?	20	D,S	L	Dd 5 ft after 6 hr pumping 30 gpm; bedrock at 20 ft; limestone overlain by 20 ft red sand; Ca.
36R1	W. Long	C. Thacker	About 1931	675	Dr	65	4	S; 4ft	----	------	G	Pl	C	7	D,S	J	Bedrock at 65 ft; Ca.
30/1W- 1A1	L. Maya	----------	---------	727	J	-----	2	----------	----	------	Sd,G	Pl	C	---	D	--------	Flows: discharge measured 12 gpm, 8-18-57; water level measured 2 ft above lsd, 9-18-57; Ca.
1B1	J. T. Burt	Fisher Bros. Well Drilling Co.	11-11-59	727	J	79	2½	S; 3ft, dia 2½, PP	70	9	Sd,G	Pl	C	---	D	--------	Flows; L.
1B2	J. J. Hensler	----do----------	8-15-59	727	J	78	2	----------	72	6	Sd,G	Pl	C	---	D	--------	Flows; see log well 1B1.
1J1	G. A. Danforth	----------	---------	735	J	-----	2	----------	----	------	Sd,G	Pl	C	---	D	--------	Flows; discharge measured 6 gpm, 9-19-57; water level measured 1.8 ft above lsd, 9-18-57.
1J2	J. O. Field	Fisher Bros. Well Drilling Co.	8-26-60	735	J	72	2½	S; 3ft, 60g, dia 1½	----	-------	Sd,G	Pl	C	3	D	--------	Yield 12 gpm; L.
2A1	E. H. Master	----do----------	12-16-59	728	J	45	2½	----do----------	31	14	Sd,G	Pl	C	9	D	--------	Yield 20 gpm; L.
2P1	H. C. Master	Mr. Gottschalk	1944	733	J	57	2	S	----	------	G	Pl	C	---	D,S	L1/3	Gravel overlain by clay; Ca.
3D1	C. L. Peters	G. Markley	1958	734	J	50	2	S; 3ft	----	------	G	Pl	C	18	D	L1/4	Ca.
4Q1	D and J Gilsinger	J. Masters	10-20-60	713	J	44	2	S; 3½ft. 10sl. dia 1½	39	5	G	Pl	C	9	S	--------	Yield 10 gpm; L.
6N1	M. H. Bell	D. Henderson	8-18-59	705	J	69	2	S; 3ft, 10sl, dia 1½	----	------	Sd	Pl	C	12	D	--------	Yield 18 gpm; L.
8C1	F. Anspach	E. Brooker, Jr.	1-26-54	720	J	81	2	S; 3ft, 60g	66	15	Sd,G	Pl	C	18	D	L	Yield 15 gpm; Ca, L.
8P1	A. Mitchell	----------	---------	707	Dn	27	1½	S; 3ft	----	------	G	Pl	----	7	D,S	L1/4	Ca.
9D1	A. Gudas	Fisher Bros. Well Drilling Co.	9-27-59	714	J	87	2½	S; 3ft, 60g, dia 1½	75	12	Sd,G	Pl	C	12	S	--------	Yield 14 gpm; Ca, L.
12C1	J. M. Logan	M. Zellers	1951	736	J	102	2	S; 4ft	----	------	G	Pl	C	10	D,S	L	
13P1	F. D. Stoudt	----------	Before 1916	741	--	807	1½	S	----	------	Sd	Pl	----	---	D,S	J	Ca.
15A1	R. Smith	Fisher Bros. Well Drilling Co.	1949	721	J	55	2	S	----	------	G	Pl	----	---	D,S	--------	Ca.
16D1	W. Mitchell	Mr. Gottschalk	1945	710	J	105	2	S; 3ft	----	------	G	Pl	C	8	D,S	C1/4	
16H1	P. Walter	C. Miller	8- 9-48	720	J	43	2	S; 3ft, 60g	----	------	G	Pl	----	20	N	--------	
16H2	----do----------	G. Crist	1956	720	J	60	2	S	----	------	G	Pl	----	---	D	J1/3	Ca.
18M1	D. Sodawick	D. Henderson and Son	3-30-61	698	Dr	46	4	Oa	----	------	Sd	Pl	----	12	D,S	--------	Yield 15 gpm; Ca, L.
18R1	P. L. Joyce	D. Henderson	9-23-60	685	Dr	45	4	Oo	35	10	Sd	Pl	C	13	D	J	Dd 5ft after 2 hr bailing 15 gpm; sand overlain by 35 ft clay; Ca.
18Q1	R. Carmon	Fisher Bros. Well Drilling Co.	6-58	704	J	101	2	S; 3ft, 60g	----	------	G	Pl	C	12	D	--------	Encounter water-bearing gravel at 46 ft and 58 ft; Ca.
20M1	E. Lewis	C. Miller	9-17-49	711	J	138	2	----do----------	----	------	G	Pl	C	6	D	J1/3	Ca.
21M1	R. Fry	G. Markley	1957	731	J	60	2	S; 3ft	----	------	G	Pl	C	20	D	J	Ca.
21P1	J. Trapp	----------	Before 1931	716	Dn	30	1½	S; 4ft	----	------	G	Pl	----	---	D,S	L1/3	
22C1	J. Panici	D. Henderson	4-27-60	721	Dr	70	4	Oo	52	18	Sd,G	Pl	C	11	D,S	--------	Ca, L.
23R1	M. McClure	G. Crist	6-54	746	J	25	2	S; 3ft, 60g	12	13	Sd,G	Pl	C	8	D,S	L1/2	Sand and gravel overlain by 6 ft blue clay and 8 ft sand; Ca.
27F1	J. Easton	R. Henderson	7-28-59	721	Dr	59	4	Oo	36	21	G	Pl	C	10	D,S	--------	Yield 15 gpm; Ca, L.
28N1	H. Braun	----------	---------	717	Dn	16	1½	S	----	------	Sd	Pl	U	---	D,S	J	Ca.
30N1	A. Wolfe	Fisher Bros. Well Drilling Co.	4-20-60	698	J	70	2½	S; 3ft, 60g, dia 1½	65	5	G	Pl	C	14	D	--------	Yield 15 gpm; gravel overlain by 65 ft blue clay.
31H1	M. Smith	J. Masters	9-15-60	706	J	42	2	S; 3½ft, 10sl, dia 1½	35	7	G,Sd	Pl	C	10	S	--------	Yield 10 gpm; Ca, L.

Table 3.--Records of wells and test holes in Pulaski County, Indiana--Continued

Well	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone: Depth to top (feet)	Water-bearing zone: Thickness (feet)	Water-bearing zone: Character	Water-bearing zone: Geologic age	Water-bearing zone: Conditions of occurrence	Water level (feet)	Use	Type of pump and horsepower	Remarks
30/1W-32D1	H. Blue	J. Masters	10- 7-60	721	J	57	2	S; 3½ft, 12sl, dia 1¼	53	4	G	Pl	C	15	D,S	--------	Yield 12 gpm; Ca, L.
32M1	C. Skillen	----do----------	7-30-59	710	J	24	2	S; 3½ft, 10sl, dia 1¼	12	12	Sd,G	Pl	C	11	S	--------	Yield 12 gpm; sand and gravel overlain by 12 ft clay.
32M2	----do----------	----------	--------	695	J	51	2½	----do----------	----	------	Sd	Pl	C	6	S	--------	Yield 12 gpm.
32N1	----do----------	J. Masters	6- 2-58	708	J	100	2	S; 3ft, 10sl	90	10	Sd,G	Pl	C	6	D	J	Sand and gravel overlain by 90 ft clay; Ca.
34F1	D. Mitchell	----------	About 1951	732	Dn	32	1½	S; 3ft	----	------	Sd,G	Pl	----	---	D,S	C1/3	Ca.
36K1	C. Arens	----------	--------	742	Dn	18	1½	----do----------	----	------	G	Pl	U	10	D	C1/3	Ca.
30/2W- 2A1	M. Gudeman	Fisher Bros. Well Drilling Co.	3-30-60	708	J	41	2¼	S; 3ft, 60g, dia 1¼	37	4	Sd,G	Pl	C	8	D	C	Yield 15 gpm; sand and gravel overlain by 37 ft sand and blue clay; Ca.
3M1	L. Thomas	----------	About 1951	705	Dn	25	1½	S; 3ft, 60g	----	------	Sd	Pl	----	---	D	L1/3	
3M2	----do----------	----------	About 1956	705	Dn	15	1½	----do----------	----	------	Sd	Pl	U	---	S	J1/3	Ca.
5R1	O. Podell	L. Johnson	5-15-52	702	Dr	400	4	Oh	170	230	Ls	S,D	C	16	D,S	J	Bedrock at 170 ft; Ca.
7D1	J. Panicaro	----------	Summer 1960	706	Dn	15	2	S	----	------	Sd	Pl	U	---	D,S	P	Ca.
8N1	T. Powers	G. Crist	5- 7-54	703	J	39	2	S; 3ft, 60g	----	------	G	Pl	----	10	D,S	J1/3	Ca.
10P1	R. Swartzel	J. Masters	5- 9-59	715	J	38	2	S; 3½ft, 10sl, dia 1¼	30	6	G	Pl	C	12	D,S	--------	Yield 10 gpm; Ca, L.
11A1	B. and C. Hatchery	G. Crist	1948	703	Dn	24	2	S; 60g	----	------	Sd,G	Pl	----	10	N	--------	Yield 30 gpm.
12G1	W. Owens	----do----------	7-13-59	700	J	52	2	S; 3½ft, 40g, dia 1¼	35	17	Sd,G	Pl	C	18	D	--------	Yield 11 gpm; Ca, L.
12G2	R. Fry	D. Henderson	4- 4-60	700	Dr	87	4	Oo	69	18	G	Pl	C	16	D,S	--------	Dd 10 ft after 2 hr bailing 15 gpm; L.
12N1	Town of Winamac	J. Hinsely	--------	686	Dr	416	10	Oh	178	238	Ls	S,D	C	---	P	T25	Dd 27 ft after 8 hr pumping 1250 gpm; flows when not pumping; bedrock at 178 ft.
12N2	----do----------	----do----------	--------	698	Dr	397	10	Oh	178	219	Ls	S,D	C	---	P	T25	Flows when not pumping; bedrock at 178 ft.
12P1	Church of the Nazarene	J. Masters	9- 4-59	702	J	50	2	S; 3½ft, 12sl, dia 1¼	35	15	Sd,G	Pl	C	20	D	J	Yield 11 gpm; Ca, L.
13D1	F. C. Williams and E. J. Russell	E. H. Wingate	2-20-61	704	Dr	192	4	Oh	91	101	Ls	D	C	18	D	J	Dd 3 ft after 3.5 hr pumping 50 gpm; bedrock at 91 ft; limestone overlain by 91 ft clay; Ca.
13F1	H. Morrison	----do----------	10- 3-57	686	Dr	187	4	S; 3½ft, 8sl	----	------	Sd,G	Pl	C	+1	D	--------	Flowed; yield 30 gpm; Ca.
13P2	E. J. Toynar	D. Henderson and Son	3- 8-61	688	J	20	2	S; 3ft, 10sl, dia 1¼	----	------	Sd	Pl	C	6	D	--------	Yield 12 gpm; Ca, L.
14G1	Mr. McKinley	----do----------	3-10-60	725	Dr	178	4	Oh	144	34	Ls	D	C	31	Ir	--------	Dd 10 ft after 2 hr bailing 40 gpm; bedrock at 144 ft; L.
14L1	D. Lowery	J. Masters	--------	718	J	85	2	S; 3½ft, 10sl, dia 1¼	----	------	G	Pl	C	15	D	--------	Yield 12 gpm; Ca, L.
15A1	F. Knarr	----------	--------	712	J	32	2	S; 3½ft, 60g, dia 1¼	----	------	Sd	Pl	----	9	D	--------	Yield 10 gpm.
15K1	W. F. Nimm	J. Masters	6-20-58	717	J	63	2	S; 3ft, 60g	----	------	G,Sd	Pl	----	14	D,S	L1/3	Sand and gravel from 50-63 ft; record missing from 0-50 ft; Ca.
16M1	W. Schnicker	----------	--------	701	J	45	2	S; 3½ft, 12sl, dia 1¼	----	------	Sd	Pl	----	15	D,S	--------	Yield 10 gpm; Ca.
18B1	T. Bulander	Fisher Bros. Well Co.	5-58	702	J	78	2	S; 3ft, 60g	----	------	G	Pl	----	7	D,S	J1/2	Ca.
19A1	G. Rife	----------	--------	701	--	90	--	S	----	------	Sd	Pl	C	---	D	J2	Ca.
19N1	C. Holt	V. Planch	--------	711	Dr	85	--	S	----	------	Sd	Pl	C	---	D,S	L	Ca.
20H1	R. DePoy	G. Markley	About 1953	703	J	77	2	S; 2ft	----	------	G	Pl	----	30	D,S	J	Ca.
21J1	E. Zellers	G. Crist	About 1953	697	J	40	2	S; 3ft	----	------	G,Sd	Pl	----	6	D	L	Ca.
24B1	R. Deltz	D. Henderson	6-20-60	711	Dr	124	4	Oa	----	------	G	Pl	C	26	D	--------	Yield 15 gpm; Ca, L.
24C1	H. Rosmer	J. Masters	3- 8-61	702	J	55	2	S; 3½ft, 12sl, dia 1¼	40	15	Sd,G	Pl	C	15	D	J	Yield 10 gpm; Ca, L.

29/6W-25L1	Mr. Enady	Hofstetter Bros.	Summer 1960	682	Dr	35	4	Oh		10	25	Ls	D	U	10	S	-------	Dd 15 ft after 2 hr pumping 15 gpm; bedrock at 6 ft; limestone overlain by 8 ft soil and clay.
26F1	Talbert Manufacturing Corp.	E. H. Wingate	8-23-57	696	Dr	46	6	Oh		10	36	Ls	87	U	10	I	S1 1/2	Dd 10 ft pumping 50 gpm; bedrock at 4 ft; limestone overlain by 4 ft clay.
26F2	----do----------	----------	--------	690	Dr	150	6	Oh	----	------	Ls	87	----	---	I	-------	Ca.
26G1	Co-op Fertilizer Plant	Mr. Morzok	--------	695	Dr	32	3	Oh	----	------	Do	S	----	---	N	-------	Bedrock at 2 ft; water has odd taste.
26K1	C. Bricker	C. Coy	--------	697	Dr	116	5	Oh	----	------	Do,Ls	S	----	---	D,S	S		Bedrock at 2 ft; water has odor hydrogen sulfide gas; Ca.
27M1	Mr. Nesius	E. Eib	1950	672	Dr	130	5	Oh	8	122	Ls	S	C	0	---	-------		Bedrock at 8 ft; limestone overlain by 8 ft sand and clay; water has odor hydrogen sulfide gas.
30E1	City of Rousselaer	Layne-Northern Co., Inc.	1-26-55	651	Dr	553	16-12	Oh	17	536	Ls	S	U	17	P	-------		Dd 21 ft pumping 620 gpm; L.
30K1	----do----------	----------	1880	636	Dr	1,275	---	----------	----	------	Ls	S	-----	---	---	-------		Oil test; bedrock at 30 ft.
33E1	W. Siegrist	----------	About 1910	666	Dr	33	4	----------	----	------	Sd,G	Pl	----	5	D,S	J1/3		Ca.
34L1	F. Nesius	Hofstetter Bros.	1956	677	Dr	30	8	Oh	10	20	Ls	D	U	10	D,S	-------		Yield 10 gpm; bedrock at 6 ft; limestone overlain by 6 ft sand and rocky clay; Ca.
35M1	R. Lobo	R. Eib	1945	686	Dr	30	4	Oh	----	------	Ls	D	----	---	D,S	J1/3		Bedrock at 8 ft; Ca.
29/7W- 5R1	W. Zacher	R. Eib	--------	694	Dr	101	4	Oh	90	11	Ls	D	C	18	D	-------		Bedrock at 90 ft; water has slight odor hydrogen sulfide gas; Ca.
8G1	L. Lano	----------	1911	703	Dr	112	4	Oh	52	70	Ls	D	C	12	D,S	L1/2		Ca.
8R1	A. Brausch	E. H. Wingate	8-16-60	704	Dr	151	4	Oh	110	41	Ls	D	C	38	D	-------		Dd 12 ft after 4 hr pumping 20 gpm; bedrock at 110 ft; Ca.
8R2	J. Miller	----do----------	8-24-60	704	Dr	142	4	Oh	122	20	Ls	D	C	38	D	-------		Dd 10 ft after 5 hr pumping 25 gpm; bedrock at 112 ft; Ca, L.
11A1	Mrs. Keiper	----------	--------	718	Dr	100	4	Oh	----	------	Ls	D	C	---	D,S	C		Water has slight odor hydrogen sulfide gas; Ca.
12D1	G. Reishling	----------	--------	700	Dr	130	4	Oh	----	------	Ls?	S	----	---	D,S	J1/3		Ca.
13M1	J. Zimmer	Hofstetter Bros.	9-23-57	717	Dr	130	4	Oa	126	2	Sd,G	Pl	C	60	D,S	-------		Sand and gravel overlain by 126 ft clay; Ca.
14C1	C. Schleman	----------	About 1912	712	Dr	120	8	Oh	----	------	Ls	D	C	20	D	L1/4		Ca.
18C1	S. Darger	A. Potts	1941	691	Dr	116	4	Oh	74	42	Ls	D	C	---	D	-------		Bedrock at 74 ft.
20B1	Trustees, Hickman Estate	----------	--------	702	Dr	110	4	Oh	----	------	Ls	D	C	---	D,S	L		Ca.
20D1	C. T. Askron	Hofstetter Bros.	1954	678	Dr	121	4	Oh	104	17	Ls	D	C	11	D	J		Bedrock at 104 ft; Ca.
22P1	H. Hickman	----------	--------	678	Dr	100	4	Ob	----	------	Ls	D	C	---	D	L		Ca.
23Q1	Jasper County Highway Department	O. J. Titus	Spring 1959	673	Dr	152	6	Qb	----	------	Ls	D	C	---	F	S		Water has slight odor hydrogen sulfide gas; Ca.
23R1	Jasper County Home	R. Eib	--------	677	Dr	163	8	Oh	83	100	Ls	D	C	10	P,S	L2		Bedrock at 83 ft; water has odor hydrogen sulfide gas.
26A1	Jasper County Fair Association	----------	--------	668	Dr	182	6	Oh	----	------	Ls	D	----	---	P,S	S		Water has odor hydrogen sulfide gas; Ca.
26A2	----do----------	Westville Well Co.	7-23-59	668	Dr	121	4	Oh	16	105	Ls	D	U	16	P,S	-------		Bedrock at 14 ft.
27P1	W. Burrell	----do----------	1954	662	Dr	85	4	Oh	55	40	Ls	D	C	15	D	-------		Bedrock at 55 ft; penetrated 5 ft crevice at 90 ft; Ca.
28C1	O. W. Hickman, Jr.	----------	8-59	666	Dn	28	1½	S; 3ft	----	------	Sd	Pl	----	---	D	L1/4		Ca.
29F1	Curtis Creek Country Club	----------	--------	655	Dn	20	1½	S	----	------	Sd	Pl	----	---	P	L		Ca.
29L1	----do----------	H. Watson	--------	668	Dr	100	4	S	----	------	Sd,G	Pl	C	---	P	L1		
31C1	C. Battleday	A. Potts	1941	672	Dr	93	4	Oh	80	13	Ls	D	C	---	S	-------		
32C1	Mr. Prior	----do----------	1940	675	Dr	152	4	Oh	147	5	Ls	D	----	C	D	-------		
36H1	St. Joseph's College	Layne-Northern Co., Inc.	9- 4-45	663	Dr	34	6	----------	26	8	G	Pl	C	8	T	-------		Bedrock at 34 ft; L.
36J1	----do----------	----do----------	9-22-45	662	Dr	47	10	Gp; S; 10ft, dia 10	7	40	Sd,G	Pl	U	7	---	-------		Dd 9 ft after 2 hr pumping 220 gpm; bedrock at 47 ft; formerly observation well Jasper 5; water level measured 11.10 ft below lsd, 9-20-55.
36J2	----do----------	----do----------	8-18-45	665	Dr	42	6	----------	----	------	Sd,G	Pl	----	---	T	-------		Bedrock at 42 ft; L.
36J3	----do----------	----do----------	8-29-45	663	Dr	29	6	----------	----	------	Sd,G	Pl	C	7	T	-------		Bedrock at 29 ft; L.
36J4	----do----------	----do----------	8-30-45	663	Dr	30	6	----------	----	------	Sd,G	Pl	----	7	T	-------		Bedrock at 30 ft; see log well 36J3.

Table 3.--Records of wells and test holes in Pulaski County, Indiana--Continued

Well	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone: Depth to top (feet)	Water-bearing zone: Thickness (feet)	Water-bearing zone: Character	Water-bearing zone: Geologic age	Water-bearing zone: Conditions of occurrence	Water level (feet)	Use	Type of pump and horsepower	Remarks
31/1W- 1E1	C. Giddio	Fisher Bros. Well Drilling Co.	7- 9-60	717	J	88	2	S; 3ft, 60g, dia 1¼	---	------	Sd,G	Pl	C	1	D	-------	Yield 16 gpm; L.
1N1	Buckeye Food and Supply	Layne-Northern Co., Inc.	6- 1-48	715	Dr	80	8	S	47	33	G,Sd	Pl	C	---	N	T	L.
3B1	A. Hilmer	G. Crist	4- 7-55	737	J	70	2	S; 3ft, 60g	64	6	G	Pl	C	31	D,S	Ll/3	Gravel overlain by 58 ft blue clay and 6 ft sand; Ca.
3D1	J. Becker	E. Brooker, Jr.	10-30-53	748	J	66	2	----do----------	57	9	Sd,G	Pl	C	34	D	J	Yield 20 gpm; Ca, L.
4B1	C. Eels	Fisher Bros. Well Drilling Co.	1-30-60	748	J	89	2½	S; 3ft, 60g, dia 1¼	70	19	Sd,G	Pl	C	37	D,S	-------	Yield 15 gpm; L.
5M1	F. J. Lang	--------	--------	715	Dn	20	1½	S	----	------	G	Pl	----	---	D	J	Ca.
7B1	W. Star	D. Henderson	5-25-60	711	Dr	51	4	----------	10	41	Sd,G	Pl	C	3	D	-------	Yield 30 gpm; Ca, L.
9R1	S. A. Freeman	--------	1958	725	Dn	40	1½	S	----	------	G	Pl	----	---	D,S	L	Ca.
10R1	P. Weaver	--------	--------	721	Dn	27	1½	S	----	------	Sd	Pl	----	---	D,S	J	Ca.
11D1	L. Paulatich	--------	Spring 1961	721	Dn	24	1½	S; 4ft	----	------	G	Pl	----	9	D,S	J	Ca.
12R1	Mr. Lightfoot	Fisher Bros. Well Drilling Co.	--------	740	J	45	2	S; 3ft, 60g	40	5	G	Pl	C	10	D	-------	Gravel overlain by 40 ft sand and blue clay; blue clay at 45 ft.
13L1	E. Woolfran	----do----------	1958	750	J	155	2	S	----	------	G	Pl	C	---	D,S	J	Ca.
17R1	F. Van Dame	--------	--------	718	Dn	45	2	S	----	------	Sd	Pl	----	---	D	Ll/3	Ca.
18F1	E. Walters	--------	1951	706	Dn	53	1½	S	----	------	Sd	Pl	----	---	D	J	Ca.
21A1	T. Reinholt	Fisher Bros. Well Drilling Co.	11-21-60	728	J	134	4½	S; 6 ft, 14sl, dia 3½	----	------	G	Pl	C	22	D,S	J	Yield 40 gpm; Ca, L.
23C1	B. Smith	--------	--------	729	Dn	25	1½	S	----	------	Sd,G	Pl	----	---	D	J	Ca.
23N1	H. Jolly	--------	Spring 1960	727	Dn	48	1½	S; 3ft, 90g	----	------	Sd	Pl	C	8	S	Ll/3	Wells at house and milk house 90 ft deep; Ca.
24H1	R. Danil	E. Brooker	About 1949	778	J	85	2	S; 6ft	----	------	G	Pl	C	---	D,S	J	Ca.
25M1	V. Peterson	Fisher Bros. Well Drilling Co.	10- 5-60	740	J	75	2½	S; 3ft, 60g, dia 1¼	64	11	Sd,G	Pl	C	20	D,S	-------	Yield 18 gpm; Ca, L.
26D1	R. S. Coleman	--------	--------	714	Dn	22	2	S; 100g	----	------	Sd	Pl	----	---	D	L	Ca.
28J1	J. E. Hinderlider	--------	About 1958	717	Dn	30	1½	S	----	------	Sd,G	Pl	----	---	D,S	J1/3	Ca.
29E1	M. Hiatt	--------	--------	706	Dn	28	1½	S	----	------	Sd	Pl	----	12	S	Ll/3	Well at house about 18 ft deep.
31P1	W. A. Mankey	Fisher Bros. Well Drilling Co.	6-28-60	704	J	40	2	S; 3ft, 60g, dia 1¼	18	22	Sd,G	Pl	C	8	D	-------	Yield 14 gpm; L.
32F1	C. Brucker	----do----------	11-22-60	706	J	101	2½	-----do----------	90	11	G,Sd	Pl	C	11	D	-------	Yield 12 gpm; Ca, L.
36E1	----do----------	----do----------	11-17-60	726	J	43	2½	----do----------	24	19	G,Sd	Pl	C	1	D,S	-------	Yield 11 gpm; Ca, L.
31/2N- 1D1	A. Davis	--------	--------	726	Dn	39	1½	S; 3ft	----	------	G	Pl	----	---	D	J	Ca.
1E1	G. and M. Malott	G. Crist	9- 2-59	710	J	25	2½	S; 3½ft, 60g, dia 1½	16	9	G,Sd	Pl	U	16	D,S	-------	Yield 10 gpm; gravel overlain by 20 ft white and yellow sand; Ca.
2M1	L. H. Steidel	--------	About 1953	722	Dn	28	1½	S; 3ft	20	8	Sd	Pl	U	20	D	J	Ca.
4P1	F. Fachner	--------	1950	711	Dn	15	1½	----do----------	9	6	Sd	Pl	U	9	S	J	Ca.
8R1	C. Pedell	--------	1900	710	Dn	23	1½	S; 3ft	----	------	Sd	Pl	----	---	D	J	Well at barn 15 ft deep; Ca.
7R1	R. Guaz	L. Johnson	11- 5-49	711	Dr	300	4	Oh	----	------	Ls	D	C	---	---	TJ	Bedrock at 140 ft; for mint still.
9N1	A. Kramar	--------	About 1942	710	Dn	21	1½	S; 3ft	----	------	Sd	Pl	----	8	D	J1/2	Ca.
11C1	J. S. Nulbert	--------	1944	713	Dn	23	1½	S; 3½ft, 100g	----	------	Sd,G	Pl	----	9	D	Ll/4	Ca.
12P1	State of Indiana	--------	1939	734	Dr	304	6	Oh	164	140	Ls	D	C	---	P	T5	Bedrock at 164 ft; Ca, L.
13C1	----do----------	Layne-Northern Co, Inc.	6-22-50	713	Dr	294	6	Oh	151	143	Ls	D	C	2	---	T5	Dd 66 ft pumping 140 gpm; bedrock at 151 ft; for swimming pool; L.
13F1	----do----------	--------	1939	707	Dr	259	6	Oh	160	99	Ls	D	C	4	P	T5	Dd 66 ft after 2 hr pumping 80 gpm; bedrock at 160 ft; L.
13M1	H. Schlemmer	Rochester Well and Pump Co.	4-24-52	710	J	42	2	S; 3ft	----	------	G	Pl	C	---	D	-------	

31/2W-15P1	State of Indiana	D. Denton	11- 8-59	714	Dr	78	4	S; 6ft, 25sl, dia 3½	52	26	Sd,G	Pl	C	17	D	J	Dd 4 ft after 1 hr pumping 15 gpm; Ca, L.
17R1	A. Sobestda	----------	About 1951	711	Dn	25	1½	S; 3½ft	----	-------	Sd	Pl	----	--	D	J	Ca.
19N1	C. A. Rose	----------	--------	706	Dn	30	1½	S; 3ft	----	-------	Sd	Pl	----	--	D,S	J	Ca.
20Q1	J. Graves	----------	--------	711	Dn	14	1½	----do----------	----	-------	Sd	Pl	U	--	D,S	J1/3	Ca.
21Q1	S. F. McManus	----------	About 1953	721	Dn	18	1½	S; 2½ft	5	13	Sd	Pl	U	5	D	P	Ca.
26G1	C. DeGroot	----------	1953	712	Dn	32	1½	S; 3½ft	----	-------	Sd	Pl	----	1	D	J	Ca.
28R1	H. Platt	----------	--------	709	Dn	18	1½	S; 2½ft	12	6	Sd	Pl	U	12	D	J1/3	
30K1	J. Wachtel Corp.	Mr. Myers	Before 1951	711	J	100	2	S	----	-------	Sd	Pl	C	--	D,I	L	Ca.
32A1	Mr. Hayhins	----------	1947	718	Dn	20	1½	S; 2½ft, 60g	20	8	Sd	Pl	U	20	D	L	Ca.
32H1	O. Button	-- ----------	--------	709	Dn	20	1½	S; 2½ft	----	-------	Sd	Pl	U	--	D	J1/3	
33H1	F. Hancock	E. Brooker, Jr.	2- 8-56	705	J	98	2	S; 3ft, 60g	71	27	Sd,G	Pl	C	11	D	L	Yield 14 gpm; Ca, L.
36J1	E. Vanaman	J. Masters	4-13-61	711	J	60	2	S; 3½ft, 12sl, dia 1½	----	-------	G	Pl	C	12	D,S	--------	Yield 12 gpm; Ca, L.
31/3W- 1R1	A. Rodlin	----------	1950	709	Dn	22	1½	S; 3ft, 60g	----	-------	Sd	Pl	---	10	S	J	Ca.
2H1	F. Gumz	----------	1955	703	J	90	2	Qo	----	-------	Sd,G	Pl	C	7	D	--------	Ca.
3Q1	A. Tomaszewski	----------	--------	711	Dn	25	1½	S	----	-------	Sd	Pl	----	10	S	P	
3Q2	----do----------	----------	--------	711	Dn	30	1½	S	----	-------	Sd	Pl	----	5	D	J	Ca.
4A1	R. Mau	J. P. Miller Artesian Well Co.	7-10-48	702	Dr	418	10	Oh	155	263	Ls	S,D	C	14	I	T	Dd 115 ft after 1 hr pumping 150 gpm; bedrock at 155 ft; crevice in limestone at 308 ft; L.
4R1	E. Marshall	----------	3-60	717	Dn	15	1½	S	----	-------	Sd	Pl	U	--	D	J1/3	Ca.
5R1	W. Fields	----------	--------	698	Dn	20	1½	S	----	-------	Sd	Pl	---	12	D	P	
7N1	F. Back	----------	--------	698	Dn	10	1½	S	----	-------	Sd	Pl	U	--	D	J	Ca.
8R1	A. Gumz	J. P. Miller Artesian Well Co.	12-10-47	685	Dr	265	12	Oh	108	157	Ls	D	C	2	I	T	Well frequently flows; bedrock at 108 ft; limestone crevieed from 108-120 ft; water contains some hydrogen sulfide gas; Ca, L.
9R1	----do----------	----do----------	11-26-47	692	Dr	200	16	Oh	147	113	Ls	D	C	2	N	--------	Bedrock at 147 ft; L.
13D1	H. Kaminski	----------	--------	709	Dn	18	1½	S; 3ft, 60g, dia 1½	----	-------	Sd	Pl	U	--	D	J1/2	
13D2	----do----------	----------	--------	709	Dn	22	1½	----do----------	----	-------	Sd	Pl	---	--	D	J1/2	Ca.
14D1	B. Koersing	----------	About 1951	707	Dn	16	1½	S; 3½ft, 60g	----	-------	Sd	Pl	U	--	D	J1/3	Ca.
15R1	D. Sierzputowski	L. Stanky	About 1911	697	Dr	-----	2	----------	----	-------	Sd	Pl	---	--	D,S	J1/2	Ca.
16C1	A. Gumz	J. P. Miller Artesian Well Co.	2- 3-48	690	Dr	310	12	Oh	155	155	Ls	D	C	2	N	--------	Dd 124 ft after 1½ hr pumping 300 gpm; L.
19C1	R. Grieger	Myers and Nichols	1943	694	J	86	2	Oh	----	-------	Ls	D	C	--	D,S	J1/2	Ca.
19K1	R. Gumz	L. Johnson	2- 9-53	714	Dr	185	---	----------	----	-------	-------	---	---	--	Du	-------	No water reported; bedrock at 122 ft.
19P1	W. O'Connor	J. Nichols	4-41	709	Dr	55	3	----------	----	-------	G	Pl	---	--	S	--------	
20A1	L. Lange	L. Stanky	Summer 1937	692	J	-----	2	Oh	----	-------	Ls	D	C	--	D,S	C1/3	Flowed; water contains hydrogen sulfide gas; Ca.
21R1	A. Klampe	----------	--------	698	J	92	2	----------	----	-------	Sd	Pl	C	--	D	L1/3	Ca.
22D1	F. Rodlin	----------	1951	692	Dr	122	4	----------	----	-------	Ls	D	C	--	D,S	--------	Flows; Ca.
23D1	A. Rhode	M. Zollers	About 1940	696	J	92	2	S	----	-------	Sd,G	Pl	C	--	D	--------	Ca.
23P1	D. Lambert	Fisher Bros. Well Drilling Co.	4-56	699	Dr	95	---	S	----	-------	Sd,G	Pl	C	10	D	J	Ca.
24D1	L. Koninski	----------	About 1923	713	Dn	20	1½	S; 2½ft	----	-------	Sd	Pl	U	--	D	P	Ca.
25C1	A. T. Stocking	Fisher Bros. Well Drilling Co.	9- 4-59	702	J	99	2½	S; 3ft, 60g, dia 1½	9	90	Sd,G	Pl	U	9	S	-------	Yield 12 gpm; Ca, L.
25M1	C. Loslin	----do----------	6-13-60	696	J	89	2	----do----------	----	-------	G	Pl	C	6	D,S	J	Do.
30A1	A. Selmer	----------	Before 1911	704	--	100	2	Qo	----	-------	Sd?	Pl	C	15	D,S	L1/4	Ca.
32C1	D. Phillips	----------	1940	702	Dn	22	1½	S; 3½ft	10	12	Sd	Pl	U	10	D	J	Ca.
32P1	Mr. Hoover	----------	--------	698	--	-----	---	----------	----	------	Sd	Pl	----	--	N	--------	Spring issuing from sand at contact with underlying silt and fissile clay till.
34A1	Murray Bros.	Oldfield Irrigation Well Co.	Spring 1958	692	Dr	118	32-18	S; 40ft, dia 18	76	42	G	Pl	C	--	Ir	T	L.
34D1	D. Sierzputowski	----------	1948	702	Dn	25	1½	S; 3ft	21	4	Sd	Pl	U	21	D	L1/4	Ca.
34M1	F. C. Moose	----------	--------	688	--	-----	---	----------	----	-----	Sd,G	Pl	----	--	--	--------	Spring issuing from sand and gravel at contact with silt and fissile clay till embedded with sand, pebbles, and boulders; contact forms spring on both sides of ditch for about 2500 ft.

Table 3.--Records of wells and test holes in Pulaski County, Indiana--Continued

Well	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone					Water level (feet)	Use	Type of pump and horsepower	Remarks
									Depth to top (feet)	Thickness (feet)	Character	Geologic age	Conditions of occurrence				
31/3W-36D1	P. Altman	L. Johnson	7- 2-48	696	Dr	147	6	Oh	35	112	Ls	D	C	1	N	-------	Dd 6 ft pumping 20 gpm; bedrock at 35 ft.
36N1	T. Knobol	Mr. Shaw	About 1949	698	Dr	65	4	----------	---	------	Ls	D	C	---	D,S	J	Ca.
31/4W-2E1	E. Stonkowski	----------	9-39	702	Dn	18	1¼	S	3	15	Sd	Pl	U	3	D	J1/3	Ca.
4J1	D. Smolok	Westville Well Co.	Spring 1953	711	J	65	--	S	---	------	Sd	Pl	----	---	D,S	J1	Ca.
5A1	C. Albording	----------	--------	700	Dr	98	6	----------	---	------	Sh?	D,M	C	---	---	-------	Formerly observation well Pulaski 4; water level measured 6.17 ft below lsd. 12-1-35.
5J1	----do----------	----------	1927	707	Dn	15	1¼	S; 3ft, 80g	---	------	Sd	Pl	U	---	D	C1/3	Ca.
6G1	State of Indiana	----------	--------	700	Dr	160	6	Oh	---	------	Ls	D	C	---	---	-------	Formerly observation well Pulaski 3; water level measured 6.75 ft below lsd. 12-1-35.
8R1	----do----------	----------	Summer 1935	707	Dr	96	4	Oh	76	20	Sh	D,M	C	D	N	-------	L.
9M1	D. Moyer	----------	1952	707	Dn	13	1½	S; 2½ft	---	------	Sd	Pl	U	---	D	L1/4	Ca.
10P1	C. Junko	O. J. Titus	9-55	702	Dr	140	4	Oh	---	------	Ls	D	C	---	D,S	-------	Water contains hydrogen sulfide gas; Ca.
11C1	R. Eckert	----------	1958	701	Dn	21	1½	S; 3ft	---	------	Sd	Pl	----	---	D	J1/3	Ca.
12D1	R. C. Nielson	----------	1956	698	Dn	13	4	----do----------	---	------	Sd	Pl	U	---	D	J1/4	Ca.
14G1	L. Kracht	----------	1956	708	Dn	13	1½	S; 3ft, 80g	---	------	Sd	Pl	U	---	D,S	J	Ca.
16M1	F. M. Moyer	----------	1952	706	Dn	18	1½	S	---	------	Sd	Pl	U	---	D	L1/4	
17K1	F. Rowe	----------	1958	722	Dn	26	1½	S; 3ft, 60g	19	7	Sd	Pl	U	19	D	J1/3	Ca.
18G1	State of Indiana	----------	--------	708	Dr	148	4	----------	---	------	Ls	D	C	---	O	-------	Observation well Pulaski 1; water level measured 12.14 ft below lsd. 12-1-35; water contains hydrogen sulfide gas.
18G2	----do----------	----------	--------	705	Dn	9	1½	S; 6½ft	---	------	Sd	Pl	U	---	---	-------	Formerly observation well Pulaski 2; water level measured 2.03 ft below lsd, 12-1-35.
18L1	L. Adams	----------	1950	702	Dn	12	1½	S; 4ft	8	4	Sd	Pl	U	8	D	P	Ca.
21M1	L. Stump	----------	About 1910	710	Dn	16	1½	S; 3ft, 60g	---	------	Sd	Pl	U	---	D	P	Ca.
23R1	A. Garling	J. Nichols	8-30-43	712	Dr	128	3	Oh	---	------	Ls	D	C	8	D	-------	Water contains hydrogen sulfide gas; Ca.
24C1	M. Lilly	Hofstetter Bros.	1956	707	Dr	33	6	S	---	------	Sd	Pl	----	---	D	P	Ca.
26R1	E. Tuska	----------	About 1911	712	Dr	200	3	Oh	---	------	Ls	D	C	5	D,S	J1/3	Bedrock at about 75 ft; water contains hydrogen sulfide gas; Ca.
27R1	M. Wireman	----------	1951	716	Dn	16	1½	S	---	------	Sd	Pl	U	---	D,S	J	Ca.
29R1	O. G. Darley	----------	1949	686	Dn	21	1½	S; 2ft	---	------	Sd	Pl	U	7	D	J	Ca.
30J1	E. T. Madge	----------	1922	682	Dr	109	--	Oh	95	9	Ls	D	C	---	---	-------	Oil test; flowed 40 gpm; bedrock at 70 ft; limestone overlain by 25 ft shale.
30L1	D. L. Brown	E. H. Wingate	1-14-00	686	Dr	98	4½	S; 2½ft, Gal, dia 3½	94	4	Sd,G	Pl	C	4	D,S	J	Dd 23 ft after 18 hr pumping 10 gpm; sand and gravel overlain by 94 ft clay; Ca.
31P1	C. E. Totzloff	J. Nichols	1940	710	Dr	130	4	Oh	---	------	Ls	D	C	27	D,S	J1/3	Ca.
34F1	Mr. Kraft	----do----------	1940	711	Dr	126	3	----------	100	26	Ls	D	C	---	D,S	L	Bedrock at about 65 ft; limestone overlain by about 35 ft shale; water contains hydrogen sulfide gas; Ca.

Table 4.--Selected logs of wells and test holes in Pulaski County, Ind.

Well 29/1W-3M1

Type of record: Driller's log. Altitude: 726 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay	17	17	
Sand	1	18	
Clay, blue	3	21	
Sand	4	25	
Gravel	25	50	

Well 29/1W-8F2

Type of record: Driller's log. Altitude: 718 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow	11	11	
Clay, blue	4	15	
Sand	3	18	
Clay, blue	28	46	
Gravel	11	57	

Well 29/1W-8F3

Type of record: Driller's log. Altitude: 718 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow, and sand	13	13	
Clay, blue	9	22	
Sand, fine	2	24	
Clay	18	42	
Sand	34	76	

Well 29/1W-8L1

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay	78	78	
Sand	7	85	
Clay, blue	7	92	
Gravel	8	100	

Well 29/1W-8L3

Type of record: Driller's log from memory. Altitude: 719 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, blue	27	27	
Gravel	8	35	
Clay, blue	7	42	

Table 4.--Selected logs of wells and test holes in Pulaski County--Cont.

Well 29/1W-8L3--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand	2	44	
Gravel	20	64	

Well 29/1W-8L5

Type of record: Driller's log. Altitude: 719 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay	36	36	
Gravel, sandy	9	45	
Clay	1	46	
Gravel	14	60	

Well 29/1W-8L6

Type of record: Driller's log. Altitude: 719 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay	22	22	
Gravel, sandy	16	38	
Clay	2	40	
Gravel	5	45	
Clay	8	53	
Sand	2	55	
Gravel	7	62	

Well 29/1W-8L7

Type of record: Driller's log. Altitude: 719 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow	12	12	
Gravel and sand	30	42	
Clay, blue	11	53	
Gravel	7	60	

Well 29/1W-8P2

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay	24	24	
Gravel	5	29	
Clay, blue	9	38	
Gravel	12	50	

Table 4.--Selected logs of wells and test holes in Pulaski County--Cont.

Well 29/1W-8P4

Type of record: Driller's log. Altitude: 713 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay	18	18	
Sand	1	19	
Clay	2	21	
Sand	15	36	
Clay, blue, with streaks of gravel	70	106	
Sand	4	110	
Gravel, yellow	25	135	
Gravel, yellow, with sand	5	140	
Gravel	8	148	

Well 29/1W-8P5

Type of record: Driller's log. Altitude: 713 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand	3	3	
Clay	9	12	
Sand	6	18	
Clay	69	87	
Gravel	8	95	

Well 29/1W-8R1

Type of record: Driller's log. Altitude: 713 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow, and sand	13	13	
Gravel	1	14	
Clay, white, and stone	9	23	
Sand	4	27	
Clay, white	32	59	
Sand	17	76	

Well 29/1W-11H1

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

Quaternary System:			
Recent and Pleistocene Series:			
Sand, yellow	10	10	
Clay, yellow	6	16	
Clay, blue	17	33	
Sand	3	36	

Table 4.--Selected logs of wells and test holes in Pulaski County--Cont.

Well 29/1W-19M1

Type of record: Driller's log. Altitude: 711 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand	20	20	
Clay	5	25	
Sand	20	45	
Sand and gravel	17	62	

Well 29/1W-28G1

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

Quaternary System:			
Recent and Pleistocene Series:			
Sand, yellow	12	12	
Gravel, yellow	5	17	
Sand, yellow	18	35	
Clay, blue	2	37	
Sand	13	50	
Sand, coarse	8	58	

Well 29/1W-28R1

Type of record: Driller's log. Altitude: 726 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand	13	13	
Clay	5	18	
Sand	6	24	
Clay	5	29	
Sand	4	33	
Clay	42	75	
Sand	5	80	
Gravel	6	86	

Well 29/1W-33D1

Type of record: Driller's log. Altitude: 724 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Top soil	12	12	
Sand	6	18	
Clay, blue	60	78	
Sand	30	108	

Table 4.--Selected logs of wells and test holes in Pulaski County--Cont.

Well 29/1W-33J1

Type of record: Driller's log. Altitude: 722 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Top soil	4	4	
Sand and clay; mixed	76	80	
Clay, gray	5	85	
Sand, fine	8	93	
Silurian System:			
Middle Silurian Series:			
Limestone, broken, with gravel	4	97	Dolomitic limestone or dolomite.
Limestone	10	107	Do.

Well 29/1W-36C1

Type of record: Driller's log. Altitude: 739 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay	26	26	
Sand	10	36	
Clay	27	63	
Sand	2	65	
Gravel	7	72	

Well 29/2W-3C1

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

Quaternary System:			
Recent and Pleistocene Series:			
Sand	4	4	
Hardpan	6	10	
Clay, blue	17	27	
Sand, white	3	30	
Gravel, blue	4	34	

Well 29/2W-3F1

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

Quaternary System:			
Recent and Pleistocene Series:			
Sand, yellow	6	6	
Clay and rocks	4	10	
Gravel	3	13	
Clay, blue	6	19	
Gravel	2	21	
Clay	30	51	
Gravel and sand	67	118	
Clay, white	15	133	
Gravel	2	135	

Table 4.--Selected logs of wells and test holes in Pulaski County--Cont.

Well 29/2W-3M1

Type of record: Driller's log. Altitude: 672 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow	8	8	
Sand, medium	4	12	
Clay, blue	33	45	
Sand, fine	2	47	
Clay, blue	18	65	
Sand, medium to coarse	7	72	

Well 29/2W-4Q1

Type of record: Driller's log. Altitude: 676 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand, yellow	12	12	
Clay, yellow	3	15	
Sand, yellow	6	21	
Clay, blue, and broken gravel	15	36	
Clay, hard, white	14	50	
Gravel	3	53	

Well 29/2W-9M1

Type of record: Driller's log. Altitude: 692 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand	2	2	
Clay, yellow	14	16	
Gravel, reddish	6	22	
Clay, soft, blue	38	60	
Clay, hard, gray	20	80	
Clay, soft, blue	7	87	
Gravel, blue	4	91	

Well 29/2W-11E1

Type of record: Driller's log. Altitude: 696 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay and gravel	13	13	
Sand	52	65	
Gravel	3	68	

Table 4.--Selected logs of wells and test holes in Pulaski County--Cont.

Well 29/2W-18B1

Type of record: Driller's log from memory. Altitude: 688 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand, yellow	22	22	
Clay, blue	3	25	
Sand, fine, grading into gravel	4	29	

Well 29/2W-23F1

Type of record: Driller's log. Altitude: 709 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand	59	59	
Clay	1	60	
Sand	35	95	
Gravel	3	98	

Well 29/2W-30D2

Type of record: Driller's log. Altitude: 687 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand	12	12	
Clay, yellow	19	31	
Clay, blue	4	35	
Gravel	7	42	

Well 29/3W-9B1

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

Quaternary System:			
Recent and Pleistocene Series:			
Sand	38	38	
Clay	4	42	
Gravel	1	43	
Clay	2	45	
Sand	5	50	
Clay	2	52	
Sand	5	57	
Clay	1	58	
Sand	2	60	
Clay	20	80	
Sand	10	90	

Table 4.--Selected logs of wells and test holes in Pulaski County--Cont.

Well 29/3W-9R1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand, yellow	12	12	
Sand, blue	31	43	
Clay, blue	15	58	
Gravel	4	62	

Well 29/4W-1N1

Type of record: Driller's log from memory. Altitude: 682 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand, yellow	20	20	
Clay, blue	22	42	
Hardpan; clay, sand, gravel and rock	7	49	
Gravel and clay; mixed	6	55	
Gravel, coarse	6	61	

Well 29/4W-4K1

Type of record: Driller's log. Altitude: 674 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Top soil and clay	9	9	
Silurian System:			
Middle Silurian Series:			
Limestone, weathered	1	10	Dolomitic limestone or Dolomite.
Limestone, hard	190	200	Do.

Well 29/4W-4P1

Type of record: Driller's log. Altitude: 681 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Soil	10		
Silurian System:			
Middle Silurian Series:			
Lime, gray	35	45	Dolomitic limestone or Dolomite.
Lime, green	539	584	Do.
Lime, brown	11	595	Do.
Ordovician System:			
Upper Ordovician Series:			
Shale	40	635	
Lime	28	663	

Table 4.--Selected logs of wells and test holes in Pulaski County--Cont.

Well 29/4W-5R1

Type of record: Driller's log. Altitude: 681 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Gravel	20	20	
Clay	6	26	
Clay and Limestone	19	45	
Silurian System:			
Middle Silurian Series:			
Dolomite	105	150	
Shale	8	158	
Dolomite	416	574	
Ordovician System:			
Upper Ordovician Series:			
Clay	10	584	Weathered shale?
Shale	20	604	
Dolomite	27	631	

Well 29/4W-8D1

Type of record: Driller's log. Altitude: 683 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Drift	14	14	
Silurian System:			
Middle Silurian Series:			
Limestone	576	590	Dolomitic limestone or Dolomite.
Ordovician System:			
Upper Ordovician Series:			
Shale	20	610	
Limestone	3	613	
Shale	16	629	
Lime	26	655	
Shale	4	659	
Limestone	29	688	
Shale	210	898	
Middle Ordovician Series:			
Limestone	14	912	

Well 29/4W-9C1

Type of record: Driller's log. Altitude: 681 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Soil and clay	9	9	
Silurian System:			
Middle Silurian Series:			
Limerock, gray	39	48	Dolomitic limestone or dolomite.

Table 4.--Selected logs of wells and test holes in Pulaski County--Cont.

Well 29/4W-9C1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Silurian System:			
Middle Silurian Series:			
Limerock, white	49	97	Dolomitic limestone or Dolomite.
Limerock, broken	4	101	Do.
Limerock, white	26	127	Do.
Record missing	18	145	

Well 29/4W-14A1

Type of record: Driller's log. Altitude: 671 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay	38	38	
Sand and gravel	2	40	
Clay, sandy	7	47	
Silurian System:			
Middle Silurian Series:			
Limestone	10	57	Dolomitic limestone or Dolomite.

Well 29/4W-17J1

Type of record: Driller's log. Altitude: 684 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Soil	5	5	
Silurian System:			
Middle Silurian Series:			
Dolomite	395	400	
Limestone	150	550	
Ordovician System:			
Upper Ordovician Series:			
Shale	70	620	
Limestone	20	640	
Shale	10	650	
Limestone	30	680	
Shale	20	700	
Limestone	75	775	
Shale	120	895	
Middle Ordovician Series:			
Dolomite	15	910	
Shale	10	920	
Dolomite	15	935	

Table 4.--Selected logs of wells and test holes in Pulaski County--Cont.

Well 30/1W-1H1

Type of record: Driller's log. Altitude: 727 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, blue	60	60	
Clay, blue, and sand	10	70	
Sand	5	75	
Gravel	4	79	

Well 30/1W-1J2

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay, blue	36	36	
Sand and gravel	14	50	
Sand and blue clay	17	67	
Sand and gravel	5	72	

Well 30/1W-2A1

Type of record: Driller's log. Altitude: 728 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow	16	16	
Clay, blue	15	31	
Sand	9	40	
Gravel	5	45	

Well 30/1W-4Q1

Type of record: Driller's log. Altitude: 713 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay	12	12	
Sand	2	14	
Clay	14	28	
Sand	2	30	
Clay	9	39	
Gravel	5	44	

Well 30/1W-6N1

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

Quaternary System:			
Recent and Pleistocene Series:			
Sand, yellow	12	12	
Clay, blue	18	30	
Sand	18	48	
Clay	11	59	
Sand	10	69	

Table 4.--Selected logs of wells and test holes in Pulaski County--Cont.

Well 30/1W-8C1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand	18	18	
Clay, blue	17	35	
Clay, stoney, blue	31	66	
Sand	12	78	
Gravel, pea-sized and larger	3	81	

Well 30/1W-9D1

Type of record: Driller's log. Altitude: 714 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, blue	30	30	
Sand	10	40	
Sand and clay, blue	35	75	
Sand and gravel	12	87	

Well 30/1W-18M1

Type of record: Driller's log. Altitude: 698 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand, red	15	15	
Sand, yellow	16	31	
Clay, blue	11	42	
Sand	4	46	

Well 30/1W-22C1

Type of record: Driller's log. Altitude: 721 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow and sand	16	16	
Clay, blue	8	24	
Sand	2	26	
Clay, blue	26	52	
Sand and gravel	18	70	

Well 30/1W-27F1

Type of record: Driller's log. Altitude: 721 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow	18	18	
Clay, blue	18	36	
Gravel	23	59	

Table 4.--Selected logs of wells and test holes in Pulaski County--Cont.

Well 30/1W-31H1

Type of record: Driller's log. Altitude: 706 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay	35	35	
Sand	1	36	
Gravel	6	42	

Well 30/1W-32B1

Type of record: Driller's log. Altitude: 721 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay	18	18	
Sand	5	23	
Clay	30	53	
Gravel	4	57	

Well 30/2W-10P1

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

Quaternary System:			
Recent and Pleistocene Series:			
Sand	15	15	
Clay	15	30	
Gravel	6	36	

Well 30/2W-12G1

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

Quaternary System:			
Recent and Pleistocene Series:			
Sand	5	5	
Clay, blue	30	35	
Sand, fine	5	40	
Sand, coarse	8	48	
Gravel, coarse, blue	4	52	

Well 30/2W-12G2

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

Quaternary System:			
Recent and Pleistocene Series:			
Sand, yellow	30	30	
Clay, blue	26	56	
Hardpan, gray	13	69	
Gravel	18	87	

Table 4.--Selected logs of wells and test holes in Pulaski County--Cont.

Well 30/2W-12P1

Type of record: Driller's log. Altitude: 702 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand	10	10	
Clay	10	20	
Sand	5	25	
Clay	2	27	
Sand	3	30	
Clay	5	35	
Sand and gravel	15	50	

Well 30/2W-13F2

Type of record: Driller's log. Altitude: 688 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Top soil	5	5	
Clay, yellow	10	15	
Sand, gray	25	40	
Clay, blue	10	50	
Clay, hard, gray	17	67	
Sand	3	70	

Well 30/2W-14G1

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

Quaternary System:			
Recent and Pleistocene Series:			
Sand, yellow	12	12	
Clay, blue	36	48	
Sand, blue	4	52	
Clay, gray and sand	22	74	
Clay, sticky, light-brown	14	88	
Sand	2	90	
Clay, sticky, light-brown	23	113	
Sand and gravel	3	116	
Clay, sticky, light-brown	28	144	
Devonian System:			
Middle Devonian Series:			
Limestone	34	178	

Well 30/2W-14L1

Type of record: Driller's log. Altitude: 718 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand	10	10	
Clay, yellow	7	17	
Gravel	16	33	

Table 4.--Selected logs of wells and test holes in Pulaski County--Cont.

Well 30/2W-14L1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand	2	35	
Gravel	5	40	
Clay, gray	9	49	
Clay, blue	26	75	
Gravel	10	85	

Well 30/2W-24B1

Type of record: Driller's log. Altitude: 711 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand	18	18	
Clay	18	36	
Sand	44	80	
Clay	7	87	
Sand	14	101	
Clay	7	108	
Sand	10	118	
Clay	2	120	
Gravel	4	124	

Well 30/2W-24C1

Type of record: Driller's log. Altitude: 702 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand	25	25	
Clay	15	40	
Sand	8	48	
Gravel	7	55	

Well 30/2W-24F1

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

Quaternary System:			
Recent and Pleistocene Series:			
Sand	22	22	
Clay	13	35	
Sand	1	36	
Clay	18	54	
Sand	2	56	
Clay	14	70	
Gravel	6	76	

Table 4.--Selected logs of wells and test holes in Pulaski County--Cont.

Well 30/2W-24F2

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand, yellow	18	18	
Gravel and rock	17	35	
Clay, blue	17	52	
Clay, blue, and sand	13	65	
Sand	10	75	

Well 30/2W-25A1

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

Quaternary System:			
Recent and Pleistocene Series:			
Sand	4	4	
Hardpan	10	14	
Sand, white	1	15	
Clay, blue	14	29	
Gravel, blue	4	33	

Well 30/2W-26A1

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay	18	18	
Sand and gravel	5	23	
Clay and sand; mixed	205	228	
Devonian System:			
Middle Devonian Series:			
Limestone	12	240	

Well 30/2W-27A1

Type of record: Driller's log. Altitude: 707 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand, yellow	10	10	
Clay, yellow	6	16	
Clay, blue	14	30	
Sand	1	31	
Clay	10	41	
Sand	3	44	

Table 4.--Selected logs of wells and test holes in Pulaski County--Cont.

Well 30/2W-27E1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Top soil	2	2	
Clay, yellow, and sand	12	14	
Clay, blue	8	22	
Sand, dirty, gray	16	38	
Hardpan, yellow	10	48	
Sand, dirty, and gravel	10	58	
Clay, blue	12	70	
Sand, yellow	6	76	
Sand, gray, and gravel	19	95	

Well 30/2W-29L1

Type of record: Driller's log. Altitude: 698 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand, yellow	22	22	
Clay, soft, blue	19	41	
Sand, white	5	46	
Clay, soft, blue	14	60	
Gravel, bluish-gray	1	61	
Clay, hard, gray	7	68	
Gravel	6	74	

Well 30/2W-35L1

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay	50	50	
Sand, very fine	2	52	
Clay	98	150	
Gravel	5	155	

Well 30/4W-16H1

Type of record: Driller's log. Altitude: 683 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow, and sand	12	12	
Clay, gray	60	72	
Mississippian and Devonian Systems:			
Lower Mississippian and Upper Devonian Series:			
Shale	12	84	
Devonian System:			
Middle Devonian Series:			
Limestone	6	90	

Well 31/1W-1E1

Type of record: Driller's log. Altitude: 717 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Gravel and sand	29	29	
Clay, blue	5	34	
Gravel	16	50	
Clay, blue, and sand	22	72	
Sand	13	85	
Gravel	3	88	

Well 31/1W-1N1

Type of record: Driller's log. Altitude: 719 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Top soil	1	1	
Sand, red	9	10	
Sand, red, and gravel	8	18	
Gravel, red, and sand	9	27	
Sand, coarse, gray, and fine gravel	6	33	
Clay, blue, with boulders	2	35	
Clay, gravelly, with boulders	5	40	
Clay, sandy, with gravel	7	47	
Gravel, coarse, gray, and medium sand; not clean	6	53	
Gravel, medium, and sand	7	60	
Gravel, coarse, and boulders with some sand	5	65	
Gravel, medium, with some sand	9	74	
Sand, medium, gray	6	80	Clay and muddy sand at 80 feet.

Well 31/1W-3D1

Type of record: Driller's log. Altitude: 748 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand and yellow clay	18	18	
Clay, stony, blue	39	57	
Sand	6	63	
Gravel, pea-sized	3	66	

Table 4.--Selected logs of wells and test holes in Pulaski County--Cont.

Well 31/1W-4R1

Type of record: Driller's log. Altitude: 748 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, blue	38	38	
Gravel	2	40	
Clay, blue	30	70	
Sand	16	86	
Gravel	3	89	

Well 31/1W-7B1

Type of record: Driller's log. Altitude: 711 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay	10	10	
Sand	32	42	
Gravel	9	51	

Well 31/1W-21A1

Type of record: Driller's log. Altitude: 726 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand, yellow	28	28	
Gravel	20	48	
Clay, blue, and gravel	75	123	
Gravel	11	134	

Well 31/1W-25M1

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

Quaternary System:			
Recent and Pleistocene Series:			
Sand, yellow	25	25	
Clay, yellow	25	50	
Clay, blue, and gravel	14	64	
Sand	8	72	
Gravel	3	75	

Well 31/1W-31P1

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow	18	18	
Sand	18	36	
Gravel	4	40	

Table 4.--Selected logs of wells and test holes in Pulaski County--Cont.

Well 31/1W-32F1

Type of record: Driller's log. Altitude: 706 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow	20	20	
Clay, blue, and rocks	34	54	
Sand	11	65	
Clay, blue	25	90	
Sand and gravel	8	98	
Gravel	3	101	

Well 31/1W-36E1

Type of record: Driller's log. Altitude: 726 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow	16	16	
Clay and gravel	8	24	
Sand and gravel	14	38	
Gravel	5	43	

Well 31/2W-12P1

Type of record: Driller's log. Altitude: 734 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand, yellow to gray-brown	80	80	
Clay, whitish-blue and yellow	84	164	
Devonian System:			
Middle Devonian Series:			
Limestone, white and brown	140	304	

Well 31/2W-13C1

Type of record: Driller's log. Altitude: 713 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand	28	82	
Clay	2	30	
Sand, muddy	18	48	
Clay	22	70	
Sand, not clean	2	72	
Clay	23	95	
Sand, muddy	5	100	
Clay	33	133	
Sand and gravel	1	134	
Clay, hard	7	141	
Clay and muddy sand	8	149	
Sand and gravel	2	151	

Well 31/2W-13C1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Devonian System:			
Middle Devonian Series:			
Limestone, hard	20	171	
Limestone, muddy	94	265	
Limestone	15	280	
Limestone, muddy	14	294	

Well 31/2W-13F1

Type of record: Driller's log. Altitude: 707 feet.

Quaternary System:			
Recent and Pleistocene Series;			
Sand, yellow	18	18	
Gravel	2	20	
Sand, gray	15	35	
Sand	6	41	
Clay, grayish	19	60	
Hardpan	5	65	
Clay, gray	5	70	
Hardpan, gray	12	82	
Sand, fine, gray	10	92	
Clay, white	12	104	
Clay, red	56	160	
Devonian System:			
Middle Devonian Series:			
Limestone, blue	3	163	
Limestone, brown	14	177	
Limestone, blue	3	180	
Limestone, white	10	190	
Limestone, gray	10	200	
Limestone, white	5	205	
Sandstone	4	209	
Limestone, white	6	215	
Limestone, blue	44	259	

Well 31/2W-15P1

Type of record: Driller's log. Altitude: 714 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand, yellow	21	21	
Sand and gravel; gray	9	30	
Clay, blue, and hardpan	2	32	
Sand, black	10	42	
Clay, sandy, blue	10	52	
Sand, fine, gray	18	70	
Sand and gravel	8	78	

Table 4.--Selected logs of wells and test holes in Pulaski County--Cont.

Well 31/2W-33H1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand	38	38	
Sand, gravel, and blue clay	4	42	
Sand and stone	11	53	
Clay, stoney, and blue soft clay	18	71	
Sand, fine	17	88	
Sand with particles of wood	7	95	
Gravel	3	98	

Well 31/2W-36J1

Type of record: Driller's log. Altitude: 711 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand	21	21	
Clay	4	25	
Sand	14	39	
Clay	4	43	
Sand	4	47	
Clay	2	49	
Gravel, sandy	2	51	
Clay	10	61	
Gravel	5	66	

Well 31/3W-4A1

Type of record: Driller's log. Altitude: 702 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand, yellow	35	35	
Clay, blue	30	65	
Clay, sandy, blue	20	85	
Sand, fine, blue	15	100	
Clay	5	105	
Sand, clayey	10	115	
Sand and small gravel	8	123	
Clay, stiff, blue	32	155	
Devonian and Silurian Systems:			
Undifferentiated:			
Lime	3	158	
Lime, hard, gray	27	185	
Lime, gray	25	210	
Lime, blue	50	260	
Lime, hard, gray	25	285	
Lime, gray	20	305	
Lime, hard, gray	65	370	
Lime, gray	20	390	
Lime, hard, gray	28	418	

Table 4.--Selected logs of wells and test holes in Pulaski County--Cont.

Well 31/3W-8R1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay and sand	25	25	
Sand, heaving	25	50	
Clay	10	60	
Clay and sand	20	80	
Gravel and clay	7	87	
Sand and gravel	17	104	
Clay, blue	4	108	
Devonian System:			
Middle Devonian Series:			
Lime, brown	32	140	
Lime, hard, gray	17	157	
Lime, broken, blue	18	175	
Lime, blue and gray	20	195	
Lime, blue	45	240	
Lime, brown	25	265	

Well 31/3W-9R1

Type of record: Driller's log. Altitude: 692 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand and clay	25	25	
Clay, blue, and sand	25	50	
Sand and clay	20	70	
Clay	5	75	
Sand, gravelly	11	86	
Sand and gravel	19	105	
Clay and shale	15	120	
Lime and shale	12	132	Boulders or gravel.
Record missing	6	138	
Clay and sand	7	145	
Sand and gravel	2	147	
Devonian System:			
Middle Devonian Series:			
Lime, hard, brown	23	170	
Lime, blue	70	240	
Lime, blue, and shale	20	260	

Well 31/3W-16C1

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

Quaternary System:			
Recent and Pleistocene Series:			
Sand, gray	22	22	
Clay, sandy	13	35	
Sand, heaving	20	55	

Table 4.--Selected logs of wells and test holes in Pulaski County--Cont.

Well 31/3W-16C1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand and clay	5	60	
Clay and sand	25	85	
Clay and gravel	15	100	
Gravel	10	110	
Sand and gravel; with clay	32	142	
Clay and gravel	13	155	
Devonian System:			
Middle Devonian Series:			
Lime, brown	25	180	
Lime, hard, gray	20	200	
Lime, blue	60	260	
Lime, brown	50	310	

Well 31/3W-25C1

Type of record: Driller's log. Altitude: 702 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand, yellow	13	13	
Sand and gravel	7	20	
Sand	76	96	
Gravel	3	99	

Well 31/3W-25M1

Type of record: Driller's log. Altitude: 696 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand and gravel	23	23	
Clay and sand	41	64	
Gravel	5	69	

Well 31/3W-34A1

Type of record: Driller's log. Altitude: 692 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand, black	4	4	
Sand and gravel	2	6	
Sand, fine, gray	3	9	
Clay, blue, and fine gravel	3	12	
Clay, blue, and some gravel	13	25	
Clay, blue	44	69	
Clay, blue, and gravel	7	76	
Gravel	42	118	

Table 4.--Selected logs of wells and test holes in Pulaski County--Cont.

Well 31/4W-8R1

Type of record: Driller's log. Altitude: 707 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand----------	37	37	
Clay, blue----------	39	76	
Mississippian and Devonian Systems:			
Lower Mississippian and Upper Devonian Series:			
Rock----------	20	96	Shale.

Table 5.--Field chemical analyses of water from wells in Pulaski County, Indiana

(Results in parts per million. Analyses by U. S. Geological Survey, except where otherwise noted.)

Well: See text for description of well-numbering system.
Material: G, gravel; Ls, limestone; Sd, sand; Sh, shale.
Geologic Age: D, Devonian; M, Mississippian; Pl, Pleistocene; S, Silurian.

U. S. Public Health Service drinking-water standards: Iron (Fe) - 0.3 ppm for iron and manganese together; Sulfate (SO_4) - 250 ppm; Chloride (Cl) - 250 ppm.

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)
29/1W- 1F1	G	Pl	6-21-61	--	0.1	337	55	4	272
3M1	G,Sd	Pl	6-13-61	59	1.0	259	60	4	216
4F1	Sd	Pl	6-13-61	57	1.0	278	40	4	192
8C1	Sd,G	Pl	5-22-59	56	3.0	327	60	16	328
8F1	Sd,G	Pl	5-22-59	55	1.2	390	105	24	364
8F2	G	Pl	6- 9-61	58	2.0	249	100	20	272
8K1	Sd,G	Pl	6-18-59	59	2.0	268	<5	8	220
8L1	G	Pl	5-22-59	59	4.0	342	55	12	316
8L2	Sd,G	Pl	6-18-59	58	1.5	307	60	12	312
8L3	G,Sd	Pl	5-22-59	56	1.3	337	80	16	352
8L5	G,Sd	Pl	6- 9-61	--	1.5	342	55	8	272
8L6	Sd,G	Pl	6- 9-61	--	5.0	293	75	12	272
8L7	G	Pl	6- 9-61	59	1.0	317	65	8	296
8P2	G	Pl	6- 9-61	--	.3	366	57	20	316
8P4	G,Sd	Pl	6- 9-61	--	.1	405	10	4	248
10H1	Sd	Pl	6-21-61	--	2.0	410	10	<4	280
11H1	Sd	Pl	6-13-61	--	3.0	425	185	60	452
12H1	G	Pl	6-21-61	--	3.0	366	35	4	280
12H2	G	Pl	6-21-61	--	.5	176	45	8	144
13J1	G	Pl	6-21-61	--	1.5	312	60	4	264
14P1	G	Pl	6-21-61	--	4.0	356	65	24	296

29/1W-15D1	G	P1	6-21-61	--	.5	264	35	4	196
15Q1	Ls?	D	6-21-61	55	2.0	371	5	<4	256
15Q2	G	P1	6-20-61	56	3.0	337	55	12	284
17J1	G	P1	6-21-61	56	1.5	288	50	12	224
19M1	Sd,G	P1	6-13-61	--	3.0	288	50	16	240
22Q1	G	P1	6-21-61	--	2.0	400	55	8	316
24Q1	G	P1	6-21-61	55	.1	327	75	12	308
26B1	Sd	P1	6-21-61	--	1.0	303	50	8	252
28R1	G,Sd	P1	6-13-61	--	.5	425	10	4	280
29B1	G	P1	6-21-61	--	1.5	293	70	8	260
30R1	Sd,G	P1	6-20-61	--	1.5	249	40	4	184
32P1	G	P1	6-21-61	--	1.0	361	5	4	212
33D1	Sd	P1	5-22-59	57	1.0	366	<5	8	296
33J1	Ls	S	5-26-58	53	2.2	278	--	20	216
33R1	Sd	P1	6-13-61	54	1.5	307	40	4	232
34A1	Ls	S	6-21-61	--	5.0	386	125	<4	368
34M1	Sd	P1	6-13-61	--	3.0	317	50	4	236
35H1	Ls?	D?	6-21-61	--	4.0	371	70	16	332
36B1	G	P1	6-21-61	--	2.0	439	5	4	284
36C1	G,Sd	P1	6-16-61	--	2.5	317	5	4	200
29/2W- 2C1	Ls	S	6-18-59	54	.3	312	5	20	204
3F1	G	P1	6-12-61	55	.8	371	10	8	240
3G1	G	P1	6-18-59	58	1.7	244	<5	8	188
3M1	Sd	P1	6-12-61	--	.1	356	10	20	236
3M2	Sd,G	P1	6-18-59	58	1.3	307	25	12	260
5M1	Sd	P1	6-19-61	--	2.0	351	100	28	356
9B1	Ls	S	6-19-59	55	1.2	298	<5	12	220
9M1	G	P1	6-12-61	--	1.5	351	<5	4	216
10G1	G	P1	6-20-61	--	.5	303	125	16	324
11E1	Sd,G	P1	6-12-61	56	2.5	322	40	8	240
12A1	Sd	P1	6-20-61	--	1.0	322	95	4	292
14J1	Sd	P1	6-20-61	--	1.0	429	85	16	380
16J1	Sd	P1	6-20-61	--	4.0	434	90	20	400
17F1	G	P1	6-20-61	--	3.0	361	160	12	408
18B1	Sd,G	P1	6-18-59	57	.2	137	30	12	148

Table 5.--Field chemical analyses of water from wells in Pulaski County--Cont.

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)
29/2W-19R1	Sd	P1	6-20-61	57	<.1	317	140	32	396
21D1	Sd	P1	6-20-61	--	.1	322	85	12	352
22M1	G	P1	6-20-61	--	2.0	346	85	4	292
23F1	Sd,G	P1	6-12-61	--	1.0	298	85	8	288
24J1	Sd,G	P1	6-12-61	58	1.0	346	60	4	292
25J1	G	P1	6-20-61	56	1.5	268	40	4	200
25N1	Sd	P1	6-20-61	52	.1	381	50	12	292
26D1	Sd,G	P1	6-20-61	--	3.0	356	65	4	312
28N1	Sd	P1	6-20-61	54	.7	390	<5	<4	260
29C1	Sd	P1	6-20-61	--	1.0	322	10	<4	212
30D1	Sd,G	P1	6-12-61	--	.1	288	10	<4	168
31E1	Ls	S	6-20-61	--	.1	351	<5	8	296
33R1	Sd	P1	6-20-61	--	2.0	234	40	4	176
34H1	Ls	S	6-20-61	--	1.0	322	15	<4	216
35R1	Sd,G	P1	6-22-61	--	1.0	283	50	4	236
29/3W- 4M1	Sd	P1	6-15-61	--	<.1	249	125	24	280
6A1	G	P1	6-14-61	--	1.0	342	<5	<4	208
7D1	Sd	P1	6-15-61	57	.1	142	30	<4	120
9B1	Sd	P1	6- 8-61	--	.3	273	10	<4	152
10H1	Sd	P1	6-19-61	59	4.0	317	35	4	236
11A1	G,Sd	P1	6-19-61	--	.5	244	64	32	260
14A1	G?	P1?	6-19-61	56	1.5	303	5	<4	180
15H1	Ls	S	6-20-61	--	.7	415	10	<4	268
16A1	Sd,G	P1	6-18-59	57	.2	137	<5	<4	116
17R1	Sd	P1	6-20-61	52	.7	303	85	24	296
18Q1	Sd	P1	6-15-61	--	<.1	293	55	24	304
19J1	Sd	P1	6-15-61	55	.1	337	120	68	512

29/3W-21M1	G	P1	6-20-61	--	3.0	439	5	<4	240
23E1	G	P1	6-20-61	--	3.0	268	65	8	232
24F1	Sd	P1	6-20-61	--	2.0	293	85	16	264
27N1	Sd	P1	6-20-61	58	2.0	317	10	<4	212
29Q1	Ls?	S?	6-15-61	--	.7	215	25	<4	164
30M1	Ls	S	6-15-61	52	.2	312	15	8	224
32L1	Sd,G	P1	6- 8-61	54	1.0	390	10	<4	260
33P1	Sd	P1	6-20-61	--	.5	224	10	4	120
34R1	Sd	P1	6-20-61	52	.3	249	70	12	228
35J1	G	P1	6-20-61	59	2.0	317	45	4	248
29/4W- 4K1	Ls	S	3-18-57	--	.3	205	--	8	---
6P1	Sd	P1	6-13-61	57	3.0	312	120	36	356
10B1	Sd	P1	7-16-58	--	<.1	342	--	24	368
10G1	Ls	S	6-15-61	--	.1	346	15	4	228
13R1	G	P1	6-15-61	--	1.5	356	5	<4	236
14A1	Ls	S	5-21-59	58	.4	278	<5	12	200
16P1	Ls	S	5-21-59	54	.1	400	130	20	472
17C2	Sd	P1	6-13-61	--	.1	346	165	48	444
23R1	Ls?	S?	6-15-61	56	1.0	322	45	20	276
25R1	Ls?	S?	6-15-61	58	.5	288	5	4	172
27N1	Ls	S	5-21-59	56	<.1	508	170	64	652
28D1	Ls	S	5-21-59	55	.1	249	75	24	276
30A1	Ls	S	6-13-61	--	.5	488	20	4	348
32B1	Ls	S	6- 7-61	56	3.0	264	125	32	312
36R1	G	P1	6-15-61	--	1.0	322	10	4	196
30/1W- 1A1	Sd,G	P1	9-18-57	55	2.0	283	--	24	256
2P1	G	P1	6-22-61	58	1.0	415	15	<4	284
3D1	G	P1	6-22-61	57	.5	205	35	4	164
8C1	Sd,G	P1	6-16-59	58	.2	205	<5	8	140
8P1	G	P1	6-22-61	55	1.0	298	40	4	232
9D1	Sd,G	P1	6-14-61	58	1.0	278	50	4	208
13P1	Sd	P1	6-21-61	--	1.5	337	30	4	248
15A1	G	P1	6-22-61	--	.5	449	15	4	308
16H2	G	P1	6-15-59	58	2.0	390	5	12	316
18M1	Sd	P1	6-15-61	--	1.5	342	10	<4	212

Table 5.--Field chemical analyses of water from wells in Pulaski County--Cont.

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)
30/1W-18R1	Sd	P1	6-15-61	--	0.5	346	20	4	232
19Q1	G	P1	6-16-59	59	1.5	298	15	8	256
20M1	G	P1	6-16-59	59	1.5	366	<5	8	276
21M1	G	P1	6-21-61	--	1.0	342	110	8	336
22C1	Sd,G	P1	6-14-61	--	1.0	337	40	4	260
23R1	Sd,G	P1	6-15-59	53	.8	268	65	8	288
27F1	G	P1	6-15-61	59	1.0	312	90	8	300
28M1	Sd	P1	6-21-61	56	.7	434	160	28	476
31H1	G,Sd	P1	6-15-61	55	1.0	317	55	8	252
32B1	G	P1	6-15-61	57	1.0	312	45	4	248
32N1	Sd,G	P1	6-15-59	57	1.5	322	30	8	292
34F1	Sd,G	P1	6-21-61	53	<.1	288	85	12	284
36E1	G	P1	6-21-61	57	.1	293	100	12	256
30/2W- 2A1	Sd,G	P1	6-14-61	--	5.0	342	115	24	340
3M2	Sd	P1	6-16-61	55	.1	239	85	156	372
5R1	Ls	S,D	6- 8-61	59	.1	293	215	92	152
7D1	Sd	P1	6-16-61	--	.2	210	60	44	284
8N1	G	P1	6-17-59	58	6.0	376	120	24	440
10P1	G	P1	6-14-61	--	4.0	239	130	40	336
12G1	Sd,G	P1	6-14-61	--	2.0	264	60	8	228
12P1	Sd,G	P1	6- 1-61	--	1.5	332	75	8	304
13D1	Ls	D	6- 1-61	59	.1	307	10	32	200
13F1	Sd,G	P1	6-17-59	59	1.0	298	5	48	264
13F2	Sd	P1	6-15-61	--	.1	317	10	20	172
14L1	G	P1	6-14-61	--	.3	215	15	<4	160
15K1	G,Sd	P1	6-14-61	--	1.0	283	75	8	248
16M1	Sd	P1	6-14-61	--	5.0	278	75	4	240
18B1	G	P1	6-17-61	55	1.5	146	<5	8	180

30/2W-19A1	Sd	P1	6-19-61	59	4.0	337	10	4	232
19N1	Sd	P1	6-19-61	--	.1	146	30	<4	104
20H1	G	P1	6-19-61	55	2.0	268	55	<4	232
21J1	G,Sd	P1	6-19-61	52	2.5	327	45	8	260
24B1	G	P1	6- 1-61	--	.8	254	10	4	144
24C1	Sd,G	P1	6- 1-61	--	1.0	356	45	4	280
24F2	Sd	P1	6- 1-61	--	.5	278	50	12	232
26A1	Ls	D	6-16-59	58	.5	395	<5	16	208
27A1	Sd	P1	6-14-61	--	.1	171	40	4	128
31F1	Sd	P1	6-19-61	--	1.0	298	80	20	280
34E1	G?	P1	6-17-59	58	2.5	322	<5	16	260
35A1	G	P1	6-14-61	--	1.0	327	50	4	272
35E1	Sd	P1	6-14-61	52	3.0	317	20	8	204
30/3W- 3R1	Sd,G	P1	6-15-61	--	.1	195	70	16	200
6H1	G	P1	6-14-61	55	.1	190	45	4	124
6P1	Sd	P1	7-10-58	--	.7	224	--	24	296
8C1	Sd,G	P1	6-17-59	56	1.0	215	<5	8	148
9A1	Sd	P1	6-14-61	56	1.0	249	70	4	208
13J1	Sd	P1	6-19-61	--	.5	195	40	4	148
14A1	Sd	P1	6-15-61	--	1.0	283	5	<4	172
14A2	Sd	P1	6-15-61	--	1.5	464	95	156	504
16A1	Sd	P1	6-14-61	--	1.0	264	80	52	280
16Q1	Sd	P1	6-14-61	--	.2	332	70	8	312
17M1	Sd	P1	6-14-61	55	.3	268	5	<4	156
22C1	G	P1	6- 8-61	--	>7.5	371	<5	<4	236
23R1	G	P1	6-15-61	55	1.5	337	<5	<4	224
25L2	G	P1	6-14-61	59	.1	229	90	12	---
28F1	Sd	P1	6-14-61	--	.2	264	80	12	252
31D1	Sd	P1	6-14-61	--	1.5	371	5	4	204
32H1	Sd	P1	6-15-61	--	.5	234	65	8	196
34R1	Sd	P1	6-15-61	--	3.0	332	110	16	284
35B1	Sd	P1	6-15-61	--	.1	249	75	12	212
30/4W- 1B1	Sd	P1	6-14-61	--	.1	102	65	4	96
3F1	Sd	P1	6-14-61	--	<.1	112	45	4	116

Table 5.--Field chemical analyses of water from wells in Pulaski County--Cont.

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)
30/4W- 3H1	Sh?	D,M	7-11-58	--	2.2	317	--	12	160
3H1	Sh?	D,M	6- 7-61	--	1.0	307	5	4	136
3H2	Ls	D	7-11-58	55	1.7	893	--	76	168
3H2	Ls	D	6- 7-61	53	7.5	644	150	8	156
6K1	G	P1	6-13-61	--	.1	342	<5	4	156
7P1	Sd	P1	6-13-61	--	.1	137	135	8	172
11M1	Sd	P1	6-14-61	57	.7	254	80	16	256
16E1	Sd	P1	6-13-61	--	1.0	278	5	<4	164
16H1	Ls	D	6- 7-61	58	.3	395	5	4	244
22Q1	Sd	P1	6-14-61	--	2.0	386	5	8	212
24E1	G	P1	6-14-61	--	.7	429	5	8	236
28D1	Sd	P1	6-13-61	--	2.0	317	35	8	240
30B1	Ls?	D?	6-13-61	54	.5	259	5	4	136
31R1	Sd	P1	6-13-61	52	.1	239	125	40	292
32R1	Ls	S	6-13-61	--	.2	293	75	8	276
34A1	Ls	S	6-17-59	55	.5	273	<5	12	184
35Q1	Sd,G	P1	6-17-59	59	1.0	264	<5	8	192
31/1W- 3B1	G	P1	6-15-59	54	1.0	386	15	20	340
3D1	Sd,G	P1	6-15-59	59	1.2	288	<5	8	236
5M1	G	P1	6-22-61	59	.7	254	50	4	208
7B1	Sd,G	P1	6-13-61	--	.3	298	15	4	192
9R1	G	P1	6-22-61	54	5.0	337	60	8	296
10R1	Sd	P1	6-22-61	56	.1	249	85	8	264
11D1	G	P1	6-22-61	--	.2	264	55	4	224
13L1	G	P1	6-22-61	--	.5	381	40	<4	292
17R1	Sd	P1	6-22-61	--	.5	190	45	4	156
18F1	Sd	P1	6-22-61	--	.5	190	45	<4	148
21A1	G	P1	6-13-61	--	1.0	420	10	4	276

31/1W-23C1	Sd,G	P1	6-22-61	--	0.1	205	50	8	188
23N1	Sd	P1	6-22-61	--	2.0	283	45	4	216
24H1	G	P1	6-22-61	--	1.0	449	70	12	368
25M1	Sd,G	P1	6-13-61	58	2.0	356	30	4	268
28D1	Sd	P1	6-22-61	55	.2	190	110	12	244
28J1	Sd,G	P1	6-22-61	59	4.0	307	115	8	316
32F1	G,Sd	P1	6-13-61	58	.5	332	10	4	196
36E1	G,Sd	P1	6-13-61	--	1.5	298	35	4	232
31/2W- 1D1	G	P1	6-22-61	--	.1	244	90	28	232
1E1	G,Sd	P1	6- 1-61	59	<.1	137	35	20	120
2M1	Sd	P1	6-23-61	--	.1	151	25	8	108
4P1	Sd	P1	6-23-61	--	5.0	215	250	68	424
6R1	Sd	P1	6-23-61	--	<.1	298	80	8	268
9N1	Sd	P1	6-23-61	55	.3	215	170	24	340
11C1	Sd,G	P1	6-22-61	--	1.5	215	115	16	268
12P1	Ls	D	5-17-60	52	1.0	293	10	4	196
15P1	Sd,G	P1	6-23-61	59	1.0	166	45	<4	144
17R1	Sd	P1	6-23-61	--	.2	176	50	4	136
19N1	Sd	P1	6-16-61	57	1.0	185	45	4	136
20Q1	Sd	P1	6-16-61	--	.1	224	65	20	180
21Q1	Sd	P1	6-16-61	58	.1	146	35	12	104
26G1	Sd	P1	6-22-61	53	.1	166	60	12	140
30K1	Sd	P1	6-16-61	--	1.0	185	40	<4	140
32A1	Sd	P1	6-13-61	54	<.1	73	25	4	36
33H1	Sd,G	P1	6-16-59	54	1.5	234	<5	8	188
36J1	G	P1	6-13-61	--	.5	210	25	4	132
31/3W- 1R1	Sd	P1	6-23-61	54	.1	171	55	24	204
2H1	Sd,G	P1	6- 8-61	58	.1	190	5	<4	104
3Q2	Sd	P1	6-12-61	--	.1	181	45	4	132
4R1	Sd	P1	6-12-61	--	.3	93	20	12	72
7N1	Sd	P1	6-12-61	--	.7	342	135	108	360
8R1	Ls	D	6- 8-61	54	<.1	220	15	12	124
13D2	Sd	P1	6-12-61	--	1.0	161	95	24	224
14D1	Sd	P1	6-12-61	58	3.0	249	105	12	276
15R1	Sd	P1	6-12-61	59	1.0	264	15	<4	172

Table 5.--Field chemical analyses of water from wells in Pulaski County--Cont.

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)
31/3W-19C1	Ls	D	6-13-61	--	0.2	307	10	<4	128
20A1	Ls	D	6-13-61	--	<.1	381	20	80	164
21R1	Sd	P1	6-12-61	--	1.0	307	10	8	172
22D1	Ls	D	6-13-61	57	1.0	303	5	12	168
23D1	Sd,G	P1	6-12-61	--	.3	185	15	<4	124
23P1	Sd,G	P1	6-12-61	--	3.5	317	5	4	256
24B1	Sd	P1	6-12-61	53	<.1	122	55	20	140
25C1	Sd,G	P1	6- 8-61	--	>7.5	395	5	<4	256
25M1	G	P1	6- 8-61	--	5.0	429	10	<4	296
30A1	Sd?	P1	6-14-61	--	.3	298	5	<4	160
32C1	Sd	P1	6-14-61	--	1.0	181	45	8	156
34D1	Sd	P1	6-14-61	--	.2	264	85	12	252
36N1	Ls	D	6-15-61	--	1.0	259	5	<4	152
31/4W- 2E1	Sd	P1	6-12-61	--	<.1	146	55	8	128
4J1	Sd	P1	6-12-61	57	1.0	205	25	4	156
5J1	Sd	P1	6-13-61	--	.1	88	35	4	84
9M1	Sd	P1	6-13-61	59	.2	185	50	52	88
10P1	Ls	D	6-12-61	--	.1	303	20	4	156
11C1	Sd	P1	6-12-61	--	<.1	93	30	<4	60
12D1	Sd	P1	6-12-61	--	.1	293	205	56	448
14G1	Sd	P1	6-13-61	59	.1	117	40	16	100
17K1	Sd	P1	6-13-61	--	<.1	137	35	8	116
18L1	Sd	P1	6-13-61	53	.1	54	55	8	100
21M1	Sd	P1	6-13-61	52	<.1	151	50	12	160
23R1	Ls	D	6-16-59	59	.1	224	<5	8	112
24C1	Sd	P1	6-13-61	51	1.0	161	55	20	152
26R1	Ls	D	6-14-61	54	.1	327	45	4	140
27E1	Sd	P1	6-14-61	59	.1	132	35	12	140

31/4W-29R1	Sd	Pl	6-13-61	--	0.2	234	85	12	228
30L1	Sd,G	Pl	6- 7-61	58	<.1	454	30	12	152
31P1	Ls	D	6-13-61	--	.3	366	85	4	192
34F1	Ls	D	6-16-59	56	.4	268	<5	8	76

Table 6.--Water levels in observation wells in Pulaski County, Indiana

(In feet below land-surface datum, except as noted. Water level: e, estimated, h, tape measurement).

Pulaski 1. (31/4W-18G1). State of Indiana. Jasper-Pulaski State Game Preserve. SW¼NE¼ sec. 18, T. 31 N., R. 4 W. Drilled unused artesian well in limestone, diameter 4 inches, reported depth 148.5 feet. Land-surface datum is about 706 feet above msl. Highest water level is 4.23 below lsd, Oct. 20, 1954 and Jan. 12, 1955; lowest 12.14 below lsd, Dec. 1, 1935. Records available: 1935-42 and 1944-60.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1935		Feb. 2	9.46	Nov. 16	10.22	July 25	8.54
		14	9.76	30	10.49	Aug. 6	8.89
Dec. 1	12.14	28	9.11	Dec. 14	10.02	16	9.29
16	11.99	May 2	9.98			Oct. 3	9.99
		16	10.14	1940		16	9.68
1936		30	9.92			Nov. 4	9.07
		June 16	9.22	Jan. 2	10.21	15	8.29
Jan. 1	11.83	July 1	8.91	15	10.29	29	8.28
16	11.94	16	9.69	Feb. 1	9.69	Dec. 16	8.14
Dec. 2	11.45	Aug. 16	9.69	15	10.09		
14	11.23	31	9.79	Mar. 1	9.93	1942	
		Sept.16	9.54	14	9.49		
1937		30	9.19	Apr. 1	9.43	Jan. 2	8.06
		Oct. 16	9.29	16	9.04	21	8.18
Jan. 2	7.83	31	9.29	May 1	8.42	Feb. 5	7.59
16	10.63	Nov. 15	9.29	15	7.99	Apr. 30	6.67
30	10.08	30	9.19	31	7.65		
Feb. 16	10.43	Dec. 14	8.69	June 15	7.49	1944	
Mar. 1	10.33	31	9.39	July 2	8.36		
15	11.21			15	8.72	May 22	6.14
Apr. 1	10.61	1939		Aug. 1	9.19	27	6.13
15	9.92			17	9.59	Aug. 1	8.79
May 1	9.58	Jan. 14	9.19	31	9.69	Nov. 2	10.05
15	10.13	30	8.79	Sept.14	9.67		
June 2	9.73	Feb. 15	7.96	30	10.09	1945	
15	9.98	Mar. 1	8.01	Oct. 15	9.89		
July 1	9.98	14	7.73	30	9.47	Aug. 17	8.09
15	10.06	31	7.49	Nov. 18	8.99	27	8.47
30	10.40	Apr. 14	7.59	Dec. 4	8.61	Sept. 3	8.60
Aug. 14	10.63	29	7.39	17	8.69	10	8.61
21	10.91	May 14	7.85			17	8.83
Sept.14	11.01	30	8.09	1941		24	8.73
Oct. 2	11.06	June 10	8.35			Oct. 1	8.18
16	9.06	29	8.17	Jan. 2	8.19	8	7.73
20	10.69	July 14	8.69	15	8.09	15	7.92
Nov. 15	10.57	30	9.01	Feb. 1	9.09	22	7.99
Dec. 2	10.69	Aug. 14	9.34	15	9.13	29	7.99
14	10.16	25	9.72	28	8.07	Nov. 5	7.78
		Sept.15	9.99	Mar. 15	7.77	12	7.77
1938		30	10.02	Apr. 15	7.68	19	7.67
		Oct. 16	10.34	May 1	7.63	26	7.72
Jan. 14	10.20	Nov. 2	9.27	19	8.88	Dec. 3	7.44

Table 6.--Water levels in observation wells in Pulaski County--Cont.

Pulaski 1--Cont.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1945		Dec. 2	8.80	Nov. 17	9.12	Oct. 18	9.45
		9	8.72	24	8.66	Nov. 23	8.90
Dec. 10	7.40	17	8.59	Dec. 2	8.50	29	8.80
17	7.62	30	8.51	8	8.60	Dec. 6	8.78
24	7.54			15	8.23	13	8.86
31	7.33	1947		22	8.24	20	8.32
				29	8.25	27	8.38
1946		Jan. 7	8.12				
		13	8.15	1948		1949	
Jan. 7	7.15	20	7.67				
14	6.70	27	7.85	Jan. 5	8.30	Jan. 3	8.07
21	6.95	Feb. 3	7.58	14	8.11	17	7.64
28	7.14	10	7.92	27	8.44	24	7.08
Feb. 4	7.18	17	7.89	Feb. 2	8.47	31	6.67
11	7.28	24	7.83	9	8.71	Feb. 7	6.83
18	7.18	Mar. 3	8.07	16	8.58	14	6.74
25	6.60	10	8.28	23	8.55	21	6.34
Mar. 4	6.67	18	8.13	Mar. 1	8.16	Mar. 1	6.22
11	6.66	24	7.54	8	8.71	7	6.33
18	6.27	31	7.47	15	7.64	14	6.31
25	6.21	Apr. 7	7.33	22	7.27	22	6.18
Apr. 1	6.56	14	6.80	29	6.67	28	6.18
9	6.86	21	6.79	Apr. 5	6.68	Apr. 29	6.48
16	6.96	28	6.65	19	6.54	May 9	6.60
22	6.85	May 5	6.36	26	6.69	16	6.88
29	6.96	12	6.54	May 4	6.65	23	6.59
May 6	6.91	20	6.30	10	6.27	30	6.50
13	6.76	27	6.10	17	5.79	June 6	6.49
27	6.45	June 3	5.99	24	6.14	13	6.58
June 3	6.79	9	5.75	31	6.59	20	6.10
10	7.04	16	6.05	June 7	6.61	27	6.13
July 9	7.38	23	6.34	14	6.65	July 4	6.60
22	8.05	30	6.53	21	6.76	11	6.98
29	8.41	July 7	6.96	28	6.32	Aug. 1	7.49
Aug. 6	8.71	15	7.15	July 5	6.60	8	7.88
12	9.03	21	7.50	12	6.87	15	7.89
19	9.06	Aug. 4	7.90	19	7.22	22	8.40
26	9.29	18	8.58	26	7.28	29	8.60
Sept. 2	9.38	25	8.66	Aug. 2	7.57	Sept. 5	8.90
9	9.48	Sept. 1	8.74	9	7.75	12	8.99
16	9.68	8	9.01	16	7.86	19	9.10
23	9.60	15	9.01	23	8.13	26	9.34
Oct. 7	9.88	30	9.11	30	8.28	Oct. 3	9.44
14	10.04	Oct. 6	9.04	Sept. 7	8.43	10	9.84
21	10.05	13	9.22	14	8.85	17	9.12
28	10.08	20	9.30	20	8.78	24	9.14
Nov. 11	9.29	27	9.19	27	9.17	31	9.08
18	9.11	Nov. 3	9.26	Oct. 5	9.07	Nov. 7	9.14
25	8.76	11	9.11	11	9.05	14	9.07

Table 6.--Water levels in observation wells in Pulaski County--Cont.

Pulaski 1--Cont.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1949		Oct. 16	8.30	Sept. 3	6.76	July 21	6.94
		23	8.32	10	6.80	28	7.19
Nov. 21	9.17	30	8.63	17	6.89	Aug. 4	7.45
28	9.02	Nov. 5	8.69	24	7.99	11	7.51
Dec. 12	9.16	13	8.75	Oct. 1	8.14	18	7.48
19	9.02	20	8.73	8	8.28	25	7.24
26	7.52	27	8.25	15	8.30	Sept. 1	6.98
		Dec. 4	8.08	22	8.30	8	8.53
1950		11	8.06	29	8.46	15	8.64
		18	8.10	Nov. 5	8.71	22	8.80
Jan. 2	7.47	25	8.06	12	7.29	29	8.94
9	7.08			19	7.32	Oct. 6	9.09
16	6.89	1951		26	7.96	13	9.47
23	6.55			Dec. 3	8.00	20	9.59
30	5.86	Jan. 1	8.12	10	6.97	26	9.78
Feb. 6	6.16	8	8.35	17	6.91	Nov. 3	9.90
13	5.96	15	8.20	24	6.88	10	9.88
20	5.92	22	8.16	31	6.56	17	9.50
27	5.98	29	8.16			24	9.75
Mar. 6	5.97	Feb. 5	7.70	1952		Dec. 1	9.64
13	5.52	12	7.82			8	9.60
20	5.48	17	7.78	Jan. 7	6.45	15	9.23
27	5.37	26	7.80	14	6.38	22	9.13
Apr. 3	5.66	Mar. 5	8.05	21	6.32	29	9.09
10	5.31	12	7.90	28	6.24		
17	5.47	19	8.03	Feb. 4	6.26	1953	
24	5.59	26	8.10	11	6.29		
May 1	5.86	Apr. 1	6.08	18	6.27	Jan. 5	9.07
8	6.24	9	5.92	25	6.24	12	9.12
15	6.55	16	5.98	Mar. 3	6.47	19	8.88
29	6.47	23	6.04	10	6.49	26	8.85
June 5	6.68	30	5.90	17	6.55	Feb. 2	8.62
19	6.43	May 7	5.86	24	6.56	9	8.58
26	6.53	14	5.82	31	6.48	16	8.60
July 3	6.54	21	5.98	Apr. 7	6.48	23	8.52
10	6.55	28	5.82	14	6.48	Mar. 2	8.49
17	7.44	June 4	5.86	21	6.42	9	8.51
24	7.06	11	6.52	28	6.40	16	8.46
31	7.16	18	6.48	May 5	6.40	23	8.50
Aug. 7	7.66	25	6.50	12	6.46	30	7.41
14	7.75	July 2	6.60	19	6.42	Apr. 6	7.11
21	7.95	9	6.58	26	5.99	13	7.01
28	7.99	16	6.60	June 2	6.02	20	7.12
Sept. 4	7.96	23	6.62	9	6.20	27	7.06
11	8.39	30	6.64	16	5.98	May 4	7.02
18	8.74	Aug. 6	6.76	23	6.00	11	6.98
25	8.50	13	6.72	30	6.04	18	6.99
Oct. 2	8.44	20	6.70	July 7	6.10	25	6.80
9	8.25	27	6.76	14	6.97	June 1	6.98

Table 6.--Water levels in observation wells in Pulaski County--Cont.

Pulaski 1--Cont.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1953		Aug. 18	8.54	Aug. 23	8.94	Aug. 15	8.97
		25	8.99	Sept. 13	9.04	22	8.96
June 8	7.92	Sept. 1	8.59	21	9.01	29	8.98
14	7.91	8	8.83	Oct. 6	9.50	Sept. 5	9.96
21	7.95	22	9.22	12	8.81	12	9.92
29	7.95	29	9.34	19	8.82	19	10.92
July 6	7.93	Oct. 12	8.99	26	8.83	26	10.94
13	7.95	20	4.23	Nov. 2	8.84	Oct. 3	10.00
18	7.97	27	8.37	9	8.87	10	10.92
26	8.92	Nov. 3	8.46	16	8.62	17	10.94
Aug. 2	8.94	10	8.56	25	8.81	24	10.94
9	8.97	17	8.58	Dec. 3	8.83	31	10.94
16	8.97	24	8.56	14	8.79	Nov. 7	10.96
23	9.91	Dec. 1	8.84	21	9.01	14	10.96
31	9.94	15	4.59	29	9.01	21	10.95
Sept. 7	9.94	22	8.63			28	10.94
Nov. 4	10.38	29	8.62	1956		Dec. 5	10.94
						12	10.98
1954		1955		Jan. 4	8.98	26	10.97
				10	9.14		
Feb. 2	10.14	Jan. 5	8.07	18	9.14	1957	
9	10.14	12	4.23	25	9.18		
16	10.05	19	7.74	Feb. 1	9.21	Jan. 2	10.92
24	9.33	26	7.77	8	9.26	9	10.95
Mar. 3	9.27	Feb. 2	7.86	15	9.30	16	10.96
10	8.97	16	7.99	22	9.10	23	10.97
17	9.10	28	8.03	28	8.94	30	10.94
24	8.99	Mar. 2	7.69	Mar. 7	8.00	Feb. 6	10.92
31	8.05	16	7.24	14	7.98	13	10.91
Apr. 7	7.65	23	7.17	21	7.96	20	10.90
14	7.05	30	7.19	28	7.94	Mar. 6	9.96
21	6.97	Apr. 6	7.13	Apr. 4	7.98	13	9.96
28	6.61	13	7.09	11	8.00	20	9.95
May 5	6.97	20	7.00	25	8.92	27	9.93
12	6.79	27	6.75	May 2	8.00	Apr. 3	9.93
19	6.93	May 4	6.93	8	7.97	10	9.00
25	5.89	11	7.00	16	7.94	17	8.95
June 2	5.08	18	6.99	23	7.91	23	8.91
9	7.21	25	7.91	31	7.00	May 1	7.94
10	7.24	June 8	7.91	June 7	7.35	8	7.93
16	7.35	15	6.98	13	8.00	15	6.99
23	7.32	22	6.99	18	7.97	22	6.96
30	7.31	29	6.99	27	6.93	31	6.98
July 7	7.58	July 6	6.99	July 5	7.00	June 5	7.00
14	5.63	13	7.95	11	7.10	12	7.91
21	7.36	27	7.96	18	8.98	July 3	7.92
28	7.90	Aug. 3	7.99	25	8.94	10	7.93
Aug. 4	8.22	10	8.91	Aug. 1	8.96	17	7.07
11	4.51	16	9.30	8	8.98	24	7.90

Table 6.--Water levels in observation wells in Pulaski County--Cont.

Pulaski 1--Cont.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1957		Aug. 20	7.00	Apr. 29	6.98	Mar. 9	6.94
		27	6.94	May 6	6.99	24	6.95
Sept. 6	8.94	Sept. 10	7.02	13	6.99	Apr. 13	6.96
19	8.94	17	7.03	20	6.97	20	6.98
23	8.95	24	7.05	27	6.96	May 4	6.99
Oct. 3	8.96	Oct. 2	7.08	June 18	7.02	12	6.97
Nov. 6	7.60	8	7.07	24	7.03	18	6.98
13	7.93	16	7.07	July 15	8.01	June 1	6.97
21	7.00	Nov. 5	7.08	22	8.08	8	7.00
Dec. 6	7.91	12	7.08	28	8.07	15	6.99
20	6.97	19	7.09	Aug. 5	8.05	July 6	6.98
		26	7.09	12	8.07	13	6.99
1958		Dec. 3	7.08	25	8.09	27	6.98
		10	7.09	Sept. 2	8.07	Aug. 3	6.99
Jan. 7	6.92	17	7.08	9	9.01	10	6.98
17	7.00	31	8.00	16	9.01	17	6.98
Feb. 26	7.93			Oct. 14	9.01	24	6.97
Mar. 5	7.92	1959		Nov. 4	8.07	31	6.97
12	6.98			18	8.05	Sept. 7	6.96
27	6.99	Jan. 13	7.07	Dec. 2	7.09	14	6.91
Apr. 4	6.98	28	7.05	9	7.05	Oct. 6	7.01
10	6.97	Feb. 5	7.05	16	7.05	12	7.00
June 4	7.59	18	7.06			19	7.02
11	6.95	25	7.05	1960		26	7.01
18	7.93	Mar. 4	7.00			Nov. 3	7.02
24	7.91	18	7.00	Jan. 6	7.01	23	7.02
July 9	6.93	25	7.01	13	6.04	30	7.03
16	6.97	Apr. 1	6.91	Feb. 10	6.09	Dec. 7	7.03
23	6.94	8	6.95	18	6.08	14	7.04
29	6.93	15	6.96	24	6.93	28	7.05
Aug. 6	6.91	22	6.97				

Pulaski 2. (31/4W-18G2). State of Indiana. Jasper-Pulaski Game Preserve. SW¼NE¼sec. 18, T. 31 N., R. 4 W. Driven unused water-table well in sand, diameter 1½inches, depth 9 feet. Land-surface is about 705 feet above msl. Highest water level is +0.40 above lsd, Jan. 2, 1937; lowest 3.42 below lsd, Oct. 16, 1937. Records available: 1935-38.

1935		1937		May 15	.09	Oct. 20	2.85
				June 2	1.59	Nov. 15	2.17
Dec. 1	2.03	Jan. 2	+.40	15	1.80	Dec. 2	1.10
16	1.75	16	.10	July 7	1.82	14	1.00
		30	.35	15	1.26		
1936		Feb. 16	.52	30	2.03	1938	
		Mar. 1	2.01	Aug. 14	1.80		
Jan. 1	1.96	15	1.44	21	1.96	Jan. 14	3.12
16	1.60	Apr. 1	1.48	Sept. 14	2.80	Feb. 2	2.23
Dec. 2	1.15	15	.68	Oct. 2	3.25	14	1.72
14	1.84	May 1	.65	16	3.42	28	.50

Table 6.--Water levels in observation wells in Pulaski County--Cont.

Pulaski 3. (31/4W-6G1). State of Indiana. Jasper-Pulaski State Game Preserve. SW¼NE¼ sec. 6, T. 31 N., R. 4 W. Drilled unused artesian well in limestone, diameter 6 inches, depth 160 feet. Land-surface datum is about 700 feet above msl. Highest water level is 3.50 below lsd, June 15, 1937; lowest 7.30 below lsd, Oct. 16, 1941. Records available: 1935-42.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1935		Oct. 20	5.75	Apr. 14	4.90	Aug. 17	6.50
		Nov. 15	5.46	29	4.70	31	6.62
Dec. 1	6.75	Dec. 2	6.02	May 14	5.36	Sept. 14	6.55
16	5.56	14	5.80	30	5.40	30	6.93
				June 10	5.46	Oct. 15	6.91
1936		1938		29	5.48	30	6.37
				July 14	5.60	Nov. 18	6.48
Jan. 1	5.35	Jan. 14	5.55	30	5.80	Dec. 4	6.14
16	5.93	Feb. 2	4.30	Aug. 14	5.37	17	6.32
Dec. 2	5.58	28	5.20	25	6.26		
14	5.70	May 2	4.90	Sept. 15	6.30	1941	
		16	5.30	30	6.10		
1937		30	5.10	Oct. 16	6.44	Jan. 2	5.92
		June 16	5.00	Nov. 2	6.74	15	5.94
Jan. 2	5.10	July 1	4.90	16	6.55	Feb. 1	5.98
16	5.56	16	5.30	30	6.28	15	6.10
30	5.20	Aug. 16	5.50	Dec. 14	6.68	28	6.13
Feb. 16	5.22	31	6.06			Mar. 15	5.66
Mar. 1	4.28	Sept. 16	5.60	1940		Apr. 15	5.75
15	5.24	30	5.87			May 1	5.67
Apr. 1	4.93	Oct. 16	5.66	Jan. 2	6.60	19	5.67
15	4.79	31	5.90	15	6.72	July 25	6.50
May 1	4.97	Nov. 15	5.64	Feb. 1	6.75	Aug. 6	6.80
15	5.00	30	5.41	15	6.72	16	6.90
June 2	4.90	Dec. 14	5.64	Mar. 1	6.63	Oct. 3	7.04
15	3.50	31	5.90	14	6.40	16	7.30
July 1	5.18			Apr. 1	6.40	Nov. 4	6.88
15	5.35	1939		16	6.02	15	6.45
30	5.34			May 1	5.85	29	6.72
Aug. 14	5.54	Jan. 14	5.40	15	5.55	Dec. 16	6.39
21	5.60	30	5.68	31	5.40		
Sept. 14	5.43	Feb. 15	5.16	June 15	5.77	1942	
Oct. 2	5.85	Mar. 1	5.13	July 2	6.15		
16	6.00	14	4.60	15	5.10	Jan. 2	6.20
		31	4.70	Aug. 1	6.59	21	6.44
						Feb. 5	6.18

Pulaski 4. (31/4W-5A1). Charles Alberding. NE¼NE¼sec. 5, T. 31 N., R. 4 W. Drilled unused artesian well in shale?, diameter 6 inches, depth 96.9 feet. Land-surface datum is 700 feet above msl. Highest water level is 3.75 below lsd, June 15, 1937; lowest 7.71 below lsd, Dec. 14, 1939. Records available: 1935-42.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1935		Oct. 20	6.33	Mar. 31	4.30	Aug. 1	6.32
		Nov. 15	6.08	Apr. 14	4.60	17	6.84
Dec. 1	6.17	Dec. 2	5.77	29	4.30	31	6.88
16	6.73	14	6.35	May 14	5.05	Sept.14	6.97
				30	5.01	30	7.29
1936		1938		June 10	5.37	Oct. 15	7.09
				29	5.33	30	6.80
Jan. 1	4.65	Jan. 14	6.05	July 14	5.75	Nov. 18	6.45
16	5.95	Feb. 2	4.90	30	6.15	Dec. 4	6.05
Dec. 2	5.46	14	5.35	Aug. 14	6.45	17	6.15
14	5.55	28	5.15	25	6.80		
		May 2	4.65	Sept.15	7.13	1941	
1937		16	5.05	30	7.09		
		30	4.65	Oct. 16	7.09	Jan. 2	5.79
Jan. 2	4.93	June 16	4.15	Nov. 2	6.94	15	5.58
16	4.83	July 1	4.55	16	7.29	Feb. 1	5.65
30	4.70	16	5.81	30	7.07	15	5.39
Feb. 16	5.00	Aug. 16	5.94	Dec. 14	7.71	28	5.64
Mar. 1	4.26	31	6.17			Mar. 15	4.85
15	5.07	Sept.16	5.78	1940		Apr. 15	5.35
Apr. 1	4.91	30	5.55			May 1	5.30
15	4.85	Oct. 16	5.80	Jan. 2	7.49	19	5.23
May 1	4.23	31	6.03	15	6.89	July 25	6.35
15	4.67	Nov. 15	5.81	Feb. 1	6.83	Aug. 6	6.75
June 2	4.65	30	5.63	15	7.07	16	6.91
15	3.75	Dec. 14	5.42	Mar. 1	6.80	Oct. 3	7.38
July 1	4.87	31	6.13	14	6.45	16	7.19
15	5.35			Apr. 1	6.34	Nov. 4	6.53
30	5.71	1939		16	6.28	15	5.94
Aug. 14	6.03			May 1	5.60	29	5.90
21	6.28	Jan. 14	5.13	15	5.24	Dec. 16	5.80
Sept.14	6.21	30	5.41	31	5.03		
Oct. 2	6.60	Feb. 15	4.79	June 15	5.05	1942	
16	6.65	Mar. 1	4.74	July 2	5.55		
		14	4.29	15	5.89	Jan. 2	5.51
						21	5.65
						Feb. 5	5.64

Pulaski 5. (29/4W-31N1). James Wiley. SW¼SW¼sec. 31, T. 29 N., R. 4 W. Drilled unused artesian (?) well in limestone, diameter 4 inches, depth 22 feet. Highest water level is 2.36 below lsd, Apr. 9, 1938; lowest 7.68 below lsd, Aug. 17, 1936. Records available: 1935-38.

Table 6.--Water levels in observation wells in Pulaski County--Cont.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1935		Oct. 3	7.05	June 26	4.80	1938	
		16	6.39	July 3	5.32		
Oct. 16	6.99	31	5.31	10	5.54	Jan. 7	4.94
31	7.09	Nov. 14	4.07	17	5.67	14	5.16
Nov. 15	5.10	Dec. 1	4.91	24	5.87	21	5.18
30	5.08	15	5.32	31	6.05	29	4.56
Dec. 16	4.64	31	2.94	Aug. 7	6.22	Feb. 5	4.75
31	5.22			14	6.18	12	3.13
		1937		21	6.45	18	2.64
1936				28	6.61	26	2.87
		Jan. 15	2.53	Sept. 4	6.76	Mar. 4	3.16
Jan. 15	4.29	Feb. 1	3.90	11	5.74	12	3.23
Feb. 1	5.29	15	4.03	18	6.06	19	2.83
15	5.52	Mar. 1	4.12	25	6.17	25	2.89
29	3.61	15	4.22	Oct. 2	6.27	Apr. 1	2.97
Mar. 16	3.90	31	4.20	9	6.27	9	2.36
31	3.37	Apr. 10	3.58	15	6.33	16	2.63
Apr. 15	4.15	17	3.42	Nov. 12	5.53	23	4.16
30	3.80	24	3.78	19	5.70	30	4.56
May 15	4.70	May 1	3.24	26	5.72	May 7	4.92
June 15	6.35	8	4.08	Dec. 4	5.25	13	5.10
30	6.68	15	4.34	10	5.30	20	4.24
July 15	7.20	22	4.26	17	5.03	28	3.59
Aug. 3	7.48	29	4.34	23	5.00	June 3	4.10
17	7.68	June 5	4.98	31	4.90	14	4.85
Sept. 3	7.57	12	4.80			17	5.05
15	7.41	19	4.74			24	5.27
						July 1	3.07

Pulaski 6. (29/4W-4P1). Earl Overmyer. Francisville. SE¼SW¼ Sec. 4, T. 29 N., R. 4 W. Drilled unused artesian well in limestone, diameter 8 inches, depth 626 feet. Land-surface datum is about 685 feet above msl. Recording gage installed July 4, 1956. Highest water level is 4.03 below lsd, June 15, 1958; lowest 16.82 below lsd, Jan. 17-18, 1957. Records available: 1956-60. Affected by earthquakes, barometric pressure, and by nearby pumping.

(Daily highest water level from recorder graph, 1956)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	----	----	----	----	----	----	----	----	----	13.92	----	----
2	----	----	----	----	----	----	----	10.36	----	13.87	----	----
3	----	----	----	----	----	----	----	----	12.42	14.09	----	15.51
4	----	----	----	----	----	----	----	10.47	12.44	14.08	----	15.56
5	----	----	----	----	----	----	8.51	10.53	12.47	14.22	15.06	15.45
6	----	----	----	----	----	----	8.55	10.65	12.60	14.08	14.98	15.57
7	----	----	----	----	----	----	8.83	10.79	12.76	----	15.03	15.65
8	----	----	----	----	----	----	8.65	10.87	12.85	14.25	15.16	15.66
9	----	----	----	----	----	----	8.60	11.62	12.85	----	15.14	15.65
10	----	----	----	----	----	----	8.85	11.05	12.74	----	15.07	15.43

Table 6.--Water Levels in observation wells in Pulaski County--Cont.

Pulaski 6--Cont.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Oct.	Nov.	Dec.
11	----	----	----	----	----	----	8.95	10.92	12.78	----	15.03	15.42
12	----	----	----	----	----	----	----	10.95	12.95	----	15.23	----
13	----	----	----	----	----	----	8.96	10.94	12.95	----	15.14	----
14	----	----	----	----	----	----	9.06	----	13.08	----	15.14	15.55
15	----	----	----	----	----	----	9.21	h11.00	13.11	14.57	15.13	15.50
16	----	----	----	----	----	----	9.23	----	13.13	14.61	15.36	15.66
17	----	----	----	----	----	----	9.30	----	13.29	14.64	15.29	15.60
18	----	----	----	----	----	----	9.45	----	13.31	14.62	15.28	15.76
19	----	----	----	----	----	----	9.47	----	13.20	14.69	15.27	15.61
20	----	----	----	----	----	----	9.45	----	13.48	14.62	15.09	15.59
21	----	----	----	----	----	----	----	----	13.41	14.67	15.10	15.62
22	----	----	----	----	----	----	----	----	13.41	14.66	15.38	15.69
23	----	----	----	----	----	----	----	----	13.62	14.81	15.38	15.57
24	----	----	----	----	----	----	----	----	13.70	14.90	15.09	15.71
25	----	----	----	----	----	----	h9.80	----	13.72	14.83	15.06	15.80
26	----	----	----	----	----	----	----	h11.99	----	14.82	15.40	15.66
27	----	----	----	----	----	----	----	----	----	----	15.34	15.60
28	----	----	----	----	----	----	----	----	13.88	14.87e	15.21	15.59
29	----	----	----	----	----	----	----	----	13.88	----	----	15.78
30	----	----	----	----	----	----	----	----	14.00	----	----	15.55
31	----	----	----	----	----	----	----	----	----	----	----	15.68

(Daily highest water level from recorder graph, 1957)

1	15.95	15.53	----	14.13	5.27	----	----	7.21	9.62	11,22	7.89	7.31
2	15.84	15.50	----	14.27	5.45	7.20	----	7.34	10.03	11.40	7.87	7.48
3	15.64	15.43	----	14.05	5.72	----	----	7.42	9.65	11.50	7.92	7.36
4	15.81	15.69	14.73	----	5.93	7.10	----	7.49	9.66	11.60	8.04	7.49
5	15.92	15.66	14.71	----	6.07	7.06	----	7.75	9.92	11.68	8.02	7.48
6	15.77	15.61	14.66	----	6.20	7.06	----	7.87	9.97	11.70	8.12	7.29
7	15.77	15.59	14.71	11.55	6.33	7.11	----	7.93	9.88	11.67	7.92	7.23
8	15.77	15.34	14.63	11.00	6.41	7129	6.62	7.96	9.94	11.78	7.62	6.87
9	15.84	15.27	14.58	----	6.54	7.35	6.88	7.99	9.97	11.87	8.19	6.48
10	15.93	15.48	14.61	----	6.48	7.32	7.19	7.99	10.05	11.98	8.52	6.40
11	15.94	15.48	14.44	----	6.59	7.18	7.24	8.03	10.17	12.04	8.36	6.55
12	15.80	15.17	14.68	----	6.70	7.27	7.36	8.14	10.12	12.16	8.14	6.60
13	15.92	15.16	14.69	----	6.65	7.05	6.77	8.18	10.27	12.15	7.91	6.50
14	15.99	15.21	14.57	8.13	6.30	6.83	6.34	8.16	10.42	12.12	7.51	6.72
15	15.95	15.09	14.68	7.87	6.28	6.88	6.31	8.27	10.33	12.08	7.24	6.92
16	16.01	15.09	14.72	7.75	6.50	6.83	6.32	8.42	10.47	11.90	7.15	6.96
17	15.87	15.12	14.68	----	6.58	6.84	----	8.59	10.75	11.88	6.93	6.85
18	16.21	15.03	14.53	----	6.30	6.83	----	8.63	10.72	11.93	6.38	6.46
19	16.03	15.14	14.50	----	6.18	6.85	----	8.68	10.66	11.93	6.46	5.81
20	15.92	15.13	14.73	----	6.38	6.87	----	8.77	10.66	11.96	6.75	5.25
21	15.88	15.05	14.54	6.10	6.43	6.87	h5.20	8.90	10.71	11.87	6.92	5.25
22	15.82	15.03	14.49	5.99	6.27	7.01	----	9.08	10.85	11.80	7.04	5.15

Table 6.--Water levels in observation wells in Pulaski County--Cont.

Pulaski 6--Cont.

(Daily highest water level from recorder graph, 1957)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Oct.	Nov.	Dec.
23	15.95	15.09e	14.60	5.97	6.15	7.23	----	8.91	11.87	10.30	6.69	5.07
24	15.67	----	14.61	6.05	6.33	7.25	----	8.78	----	----	6.78	5.46
25	15.58	----	14.47	6.06	6.01	7.27	----	8.90	----	----	6.97	5.05
26	15.73	----	14.48	5.89	5.95	----	----	9.10	----	----	7.05	5.06
27	15.62	----	14.65	5.70	6.21	----	----	9.29	----	----	7.01	5.17
28	15.47	----	14.51	5.42	6.58	----	----	9.30	----	7.94	7.11	5.15
29	15.52	----	14.46	5.25	6.62	----	6.67	9.33	----	7.62	7.19	5.56
30	15.62	----	14.57	5.24	6.61	h5.47	6.83	9.46	11.22	7.68	7.23	5.55
31	15.49	----	14.33	----	----	----	7.04	9.59	----	7.77	----	5.37

(Daily highest water level from recorder graph, 1958)

1	5.57	6.88	8.46	7.81	----	9.76	5.69	7.46	8.67	10.01	10.82	9.01
2	5.78	7.04	8.19	7.69	8.38	9.65	5.95	7.49	8.76	10.27	10.86	9.12
3	6.07	7.18	8.09	7.73	8.33	9.55	6.15	7.52	8.75	9.95	10.94	8.17
4	6.28	7.22	8.12	7.78	8.50	9.47	6.40	7.62	8.90	9.83	10.93	8.06
5	6.17	7.10	8.01	7.57	8.44	9.45	6.45	7.80	8.94	10.12	10.82	----
6	5.87	7.25	7.97	7.54	8.40	9.58	6.81	7.85	8.91	10.06	11.15	----
7	6.16	7.41	7.91	7.75	8.35	9.52	6.92	7.77	9.02	10.12	11.23	----
8	6.45	7.60	7.73	----	8.32	8.79	7.02	7.77	9.09	10.10	10.97	8.47
9	6.59	7.68	7.67	7.83	8.37	6.60	7.21	7.87	9.02	10.47	10.93	8.67
10	6.61	7.61	7.80	7.66	8.55	5.35	7.21	7.83	9.16	10.47	11.25	8.86
11	6.89	7.64	7.85	7.64	8.60	4.67	7.21	7.84	9.38	10.65	11.44	8.63
12	7.06	7.74	7.83	7.77	8.71	4.51	7.24	7.85	9.37	10.62	11.50	8.60
13	6.96	8.87	7.66	7.89	----	4.29	7.39	7.90	9.38	10.42	11.38	8.97
14	6.91	7.94	7.91	7.89	8.83	4.08	7.09	8.01	9.43	10.53	11.26	8.98
15	7.08	7.89	7.72	7.88	8.67	4.03	6.42	7.89	9.49	10.79	11.66	9.00
16	7.17	8.13	7.66	7.97	8.64	4.20	6.01	7.39	9.50	10.43	11.81	8.80
17	7.18	8.31	7.72	7.98	8.62	4.52	5.84	7.18	9.28	10.49	11.21	----
18	7.29	8.40	7.82	8.03	8.65	4.83	5.77	7.29	9.44	10.58	10.82	----
19	7.29	8.56	7.80	8.12	8.85	5.09	5.88	7.40	9.42	10.49	10.46	----
20	7.24	8.61	7.74	8.00	8.93	5.20	6.07	7.48	9.27	10.50	10.12	----
21	6.82	8.33	7.74	8.06	9.00	5.34	6.19	7.56	9.27	11.28	9.96	----
22	6.87	8.39	7.86	8.05	8.84	5.50	6.27	7.70	9.44	11.64	9.85	9.24
23	7.06	8.38	7.95	7.96	9.15	5.51	6.42	7.83	9.56	11.04	9.68	9.15
24	----	8.26	7.78	7.95	9.00	5.74	6.60	7.82	9.53	10.75	9.59	9.52
25	----	8.50	7.79	8.50	9.00	5.75	6.60	7.94	9.59	10.65	9.68	9.65
26	----	8.39	7.65	8.42	9.20	5.09	----	8.31	9.75	10.68	9.42	9.51
27	6.78	8.22	7.62	8.25	9.55	4.98	----	8.17	9.80	10.73	9.40	9.40
28	6.99	8.25	7.61	8.17	9.49	5.01	6.98	8.17	9.84	10.83	8.93	9.53
29	6.94	----	7.66	----	9.43	5.19	7.17	8.21	9.73	10.91	8.95	9.60
30	6.88	----	7.63	----	9.43	5.42	7.22	8.41	9.69	11.00	9.34	9.88
31	6.84	----	7.66	----	9.42	----	7.30	8.49	----	10.89	----	9.48

Table 6.--Water levels in observation wells in Pulaski County--Cont.

Pulaski 6--Cont.

(Daily highest water level from recorder graph, 1959)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.23	9.48	----	5.70	4.96	7.91	9.72	----	14.07	14.86	14.01	8.36
2	9.31	9.05	7.60	5.43	5.06	8.08	9.91	----	14.05	14.84	14.09	8.46
3	9.40	8.53	7.66	5.33	5.33	8.20	9.99	12.76	14.27	14.83	14.01	8.45
4	9.50	----	7.94	5.63	5.53	8.30	9.86	12.71	14.35	14.97	13.81	8.40
5	9.85	----	7.29	5.59	5.73	8.32	9.89	12.92	14.44	14.89	13.73	8.50
6	9.55	9.57	7.06	5.90	5.85	8.38	10.12	13.00	14.54	14.87	13.63	8.45
7	9.40	9.36	7.69	6.00	6.15	8.53	10.40	13.04	14.57	14.90	13.25	8.46
8	9.55	9.42	7.38	5.98	6.45	8.65	10.42	13.19	14.78	14.84	13.10	8.49
9	----	9.05	7.22	5.97	6.36	8.84	10.70	13.34	e15.07	14.97	12.95	8.71
10	9.72	8.74	7.10	5.98	6.28	8.80	----	13.46	14.89	14.86	12.84	8.69
11	9.77	8.84	6.93	6.04	6.44	8.72	10.64	13.62	14.84	14.69	12.85	8.35
12	9.64	8.21	6.86	6.00	6.76	----	10.63	13.42	14.85	14.50	----	8.20
13	9.64	8.07	7.62	6.02	6.73	----	10.67	13.12	14.83	14.35	----	8.42
14	9.46	----	7.97	6.10	6.90	9.18	10.89	13.21	14.77	14.29	----	8.32
15	9.37	7.98	6.44	6.26	6.97	9.14	10.95	13.06	14.78	14.28	10.43	8.05
16	9.24	7.89	5.70	6.32	7.12	9.26	11.08	13.00	14.99	14.24	9.97	7.99
17	9.29	7.82	5.66	6.50	7.18	9.42	10.90	12.97	15.12	14.35	9.70	8.01
18	9.17	7.89	5.61	6.54	7.19	9.53	10.83	13.12	15.13	14.26	9.14	8.04
19	9.07	8.26	5.43	6.64	7.24	9.52	10.91	13.24	15.17	14.29	9.05	8.18
20	9.25	8.44	5.41	6.52	7.49	9.72	11.03	13.24	15.22	14.31	8.72	8.06
21	8.91	8.44	5.54	6.35	7.51	9.55	11.16	13.48	15.23	14.33	8.66	8.04
22	----	8.16	5.86	6.24	7.72	9.49	11.23	12.80	15.20	14.29	8.61	8.12
23	9.58	8.00	5.94	6.27	7.63	9.64	11.30	13.58	15.22	14.07	8.42	8.09
24	----	8.28	5.94	6.29	7.73	9.69	11.30	----	15.25	14.01	8.26	8.11
25	e9.22	8.08	6.09	6.37	7.60	10.01	11.40	----	15.17	14.12	8.43	8.12
26	9.24	8.04	e5.91	6.66	7.57	9.67	11.46	----	15.10	14.18	8.60	8.03
27	9.36	----	5.77	5.90	7.65	9.56	11.47	----	15.16	14.26	8.60	7.77
28	9.32	----	----	5.15	7.87	9.57	11.50	13.76	15.17	14.31	8.54	7.62
29	9.12	----	----	4.99	7.96	9.65	11.55	13.81	15.15	e14.23	8.56	7.59
30	9.15	----	5.70	4.78	7.90	9.73	11.69	13.95	14.87	14.19	8.40	7.65
31	9.52	----	5.70	----	7.88	----	11.79	13.98	----	14.05	----	7.71

(Daily highest water level from recorder graph, 1960)

1	7.43	7.66	7.85	5.38	7.72	7.34	8.30	10.01	11.15	11.98	12.91	----
2	7.13	7.73	7.45	5.36	7.67	7.29	8.08	10.06	11.24	11.87	12.91	----
3	7.18	7.69	7.40	5.61	7.77	7.34	7.89	9.96	11.43	12.12	13.16	----
4	7.42	7.58	7.66	5.62	7.87	7.48	8.04	9.79	11.42	12.13	13.60	----
5	7.42	7.22	7.90	5.76	7.45	7.67	7.92	9.90	11.45	11.98	13.45	12.01
6	7.32	7.17	8.04	5.77	7.85	8.23	8.07	9.73	11.60	12.10	13.24	12.19
7	7.31	6.91	7.98	----	7.75	8.58	8.42	9.81	11.71	12.36	13.58	12.23
8	7.50	6.48	8.03	----	8.01	8.35	8.42	9.68	11.89	12.38	13.45	----
9	7.80	6.34	e7.83	----	7.42	8.47	8.26	9.75	11.96	12.63	13.50	----
10	7.75	5.96	7.92	6.77	7.28	8.53	8.18	9.82	12.03	12.63	13.68	----

Table 6.--Water levels in observation wells in Pulaski County--Cont.

Pulaski 6--Cont.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	7.95	5.87	8.06	6.47	7.46	8.49	8.58	10.08	11.91	12.62	13.50	----
12	7.61	5.94	8.16	6.67	7.61	8.52	8.43	10.07	11.90	12.56	13.50	----
13	7.59	5.70	8.24	6.71	7.94	8.57	8.58	10.07	12.00	12.55	13.47	----
14	7.08	5.75	8.21	6.78	7.72	8.27	8.92	10.48	12.24	12.60	13.48	----
15	6.94	6.03	7.98	5.96	7.72	8.20	8.73	10.40	12.26	12.69	13.24	----
16	7.25	6.05	7.71	5.46	7.68	7.60	8.66	10.39	12.44	12.68	13.00	----
17	7.03	6.14	7.82	4.97	7.60	7.29	8.68	10.38	12.45	12.59	12.51	----
18	6.81	6.33	8.07	4.96	8.70	7.03	8.76	10.38	12.30	12.72	12.27	----
19	7.09	6.56	8.08	4.89	8.88	6.96	8.84	10.39	11.95	12.67	12.27	----
20	----	6.91	8.28	4.85	8.61	6.91	9.08	10.43	11.73	12.85	12.03	----
21	----	6.56	8.02	5.23	8.70	6.92	9.26	10.45	11.57	12.96	11.93	----
22	7.59	6.60	7.95	5.74	8.41	6.91	9.27	10.61	11.46	12.71	11.84	----
23	7.60	----	8.09	6.74	7.87	6.92	9.34	10.50	----	13.33	12.06	----
24	7.53	----	8.01	6.44	7.64	7.05	9.27	10.53	11.47	13.29	11.87	----
25	7.38	----	8.17	6.27	7.61	7.42	9.38	10.61	11.58	13.33	11.85	12.62
26	7.63	----	8.10	6.33	7.64	7.49	9.39	10.63	11.80	13.30	11.88	12.58
27	7.58	----	7.96	6.81	----	7.50	9.42	10.75	11.76	13.23	11.82	13.13
28	7.75	e7.58	7.10	----	----	7.51	9.63	10.81	11.75	13.22	11.75	12.94
29	7.87	7.66	6.30	7.35	e7.93	7.56	9.59	10.85	11.72	13.40	11.89	12.75
30	7.80	----	5.77	7.69	7.84	7.94	9.60	10.99	----	13.18	----	12.77
31	7.66	----	----	----	7.55	----	9.91	11.06	----	12.90	----	12.75

PUBLICATIONS OF COOPERATIVE GROUND-WATER PROGRAM

Report

Ground-water resources of the Indianapolis area, Marion County, Indiana. C. L. McGuinness. Indiana Department of Conservation, Division of 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. 1963.

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. 1963.

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. 1963.

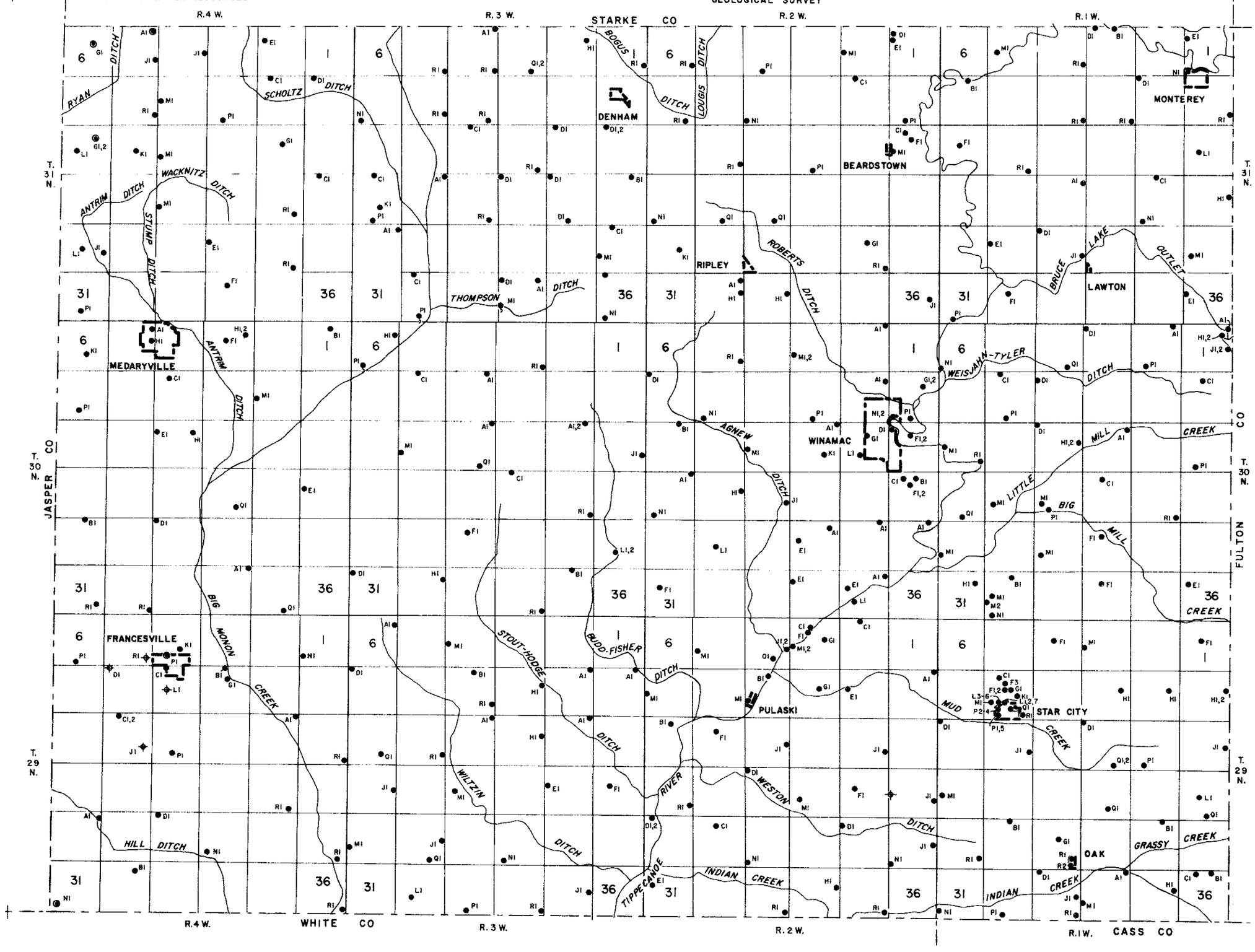
22 Ground-water resources of northwestern Indiana. Preliminary Report: Starke County. J. S. Rosenshein and J. D. Hunn. Indiana Department of Conservation, Division of Water Resources. 1963.

INDEX

STATE OF INDIANA
INDIANA DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

PREPARED BY THE
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BULLETIN 24 PLATE 1



EXPLANATION

- Water well or test hole
- Observation well
- Spring
- Oil or gas well or test hole

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

SECTION LETTER SYMBOLS IN WELL-NUMBERING SYSTEM

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

Base from modified General Highway and Transportation Map revised to July, 1953. Drainage and Town boundaries in part from U.S. Geological Survey topographic maps

MAP OF PULASKI COUNTY, INDIANA, SHOWING LOCATION OF WELLS AND TEST HOLES

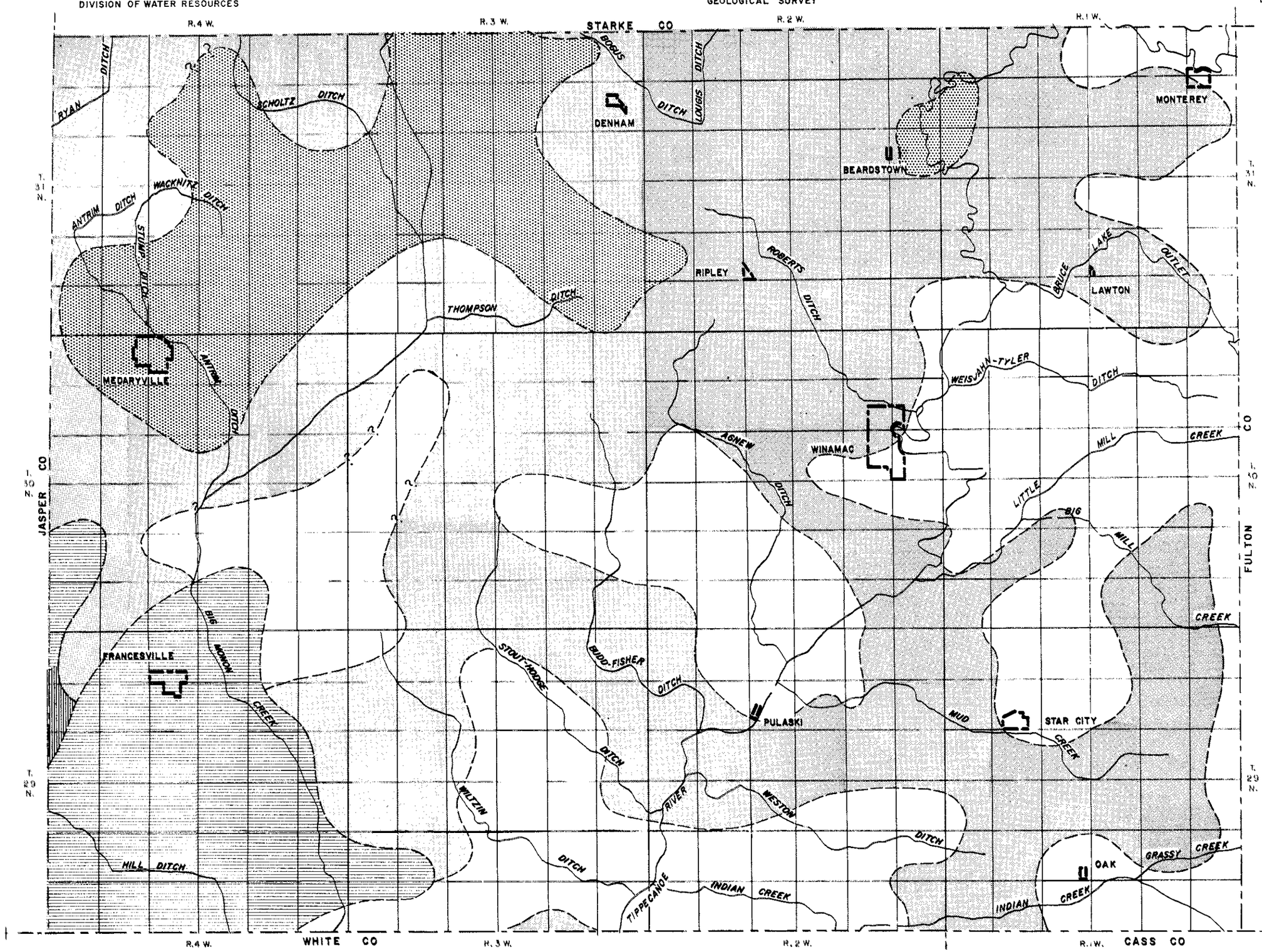
0 1 2 3 4 5 6 MILES
0 5000 10 000 15 000 20 000 FEET

By J. S. Rosenshein and J. D. Hunn
1961

STATE OF INDIANA
INDIANA DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

PREPARED BY THE
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BULLETIN 24 PLATE 2



EXPLANATION

Production from bedrock

Well depths less than 50 feet. Yields generally adequate to more than adequate for domestic use

Well depths generally from 50 to 100 feet. Yields adequate to more than adequate for domestic use. Larger yields possible locally

Production from bedrock, glaciofluvial sand and gravel, and some wind-blown sand

Well depths in bedrock from 90 to 300 feet. Well depths in glaciofluvial sand and gravel from 50 to 100 feet. Wells depths in wind-blown sand generally less than 25 feet. Yields adequate to more than adequate for domestic use. Larger yields possible locally from bedrock and glaciofluvial sand and gravel.

Production from glaciofluvial sand and gravel and wind-blown sand

Well depths generally less than 50 feet. Many domestic wells driven to depths less than 25 feet and in places where improperly located may be subject to contamination by septic wastes. Yields adequate to more than adequate for domestic use. Larger yields possible locally

Production from glaciofluvial sand and gravel

Well depths generally from 50 to 100 feet. Some shallower and deeper production locally. Yields adequate to more than adequate for domestic use. Larger yields possible.

Base from modified General Highway and Transportation Map revised to July, 1953. Drainage and Town boundaries in part from U.S. Geological Survey topographic maps

MAP OF PULASKI COUNTY, INDIANA, SHOWING AVAILABILITY OF GROUND WATER

0 1 2 3 4 5 6 MILES

0 5000 10000 15000 20000 FEET

By J. S. Rosenshein and J. D. Hunn
1961

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

STATE OF INDIANA
INDIANA DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

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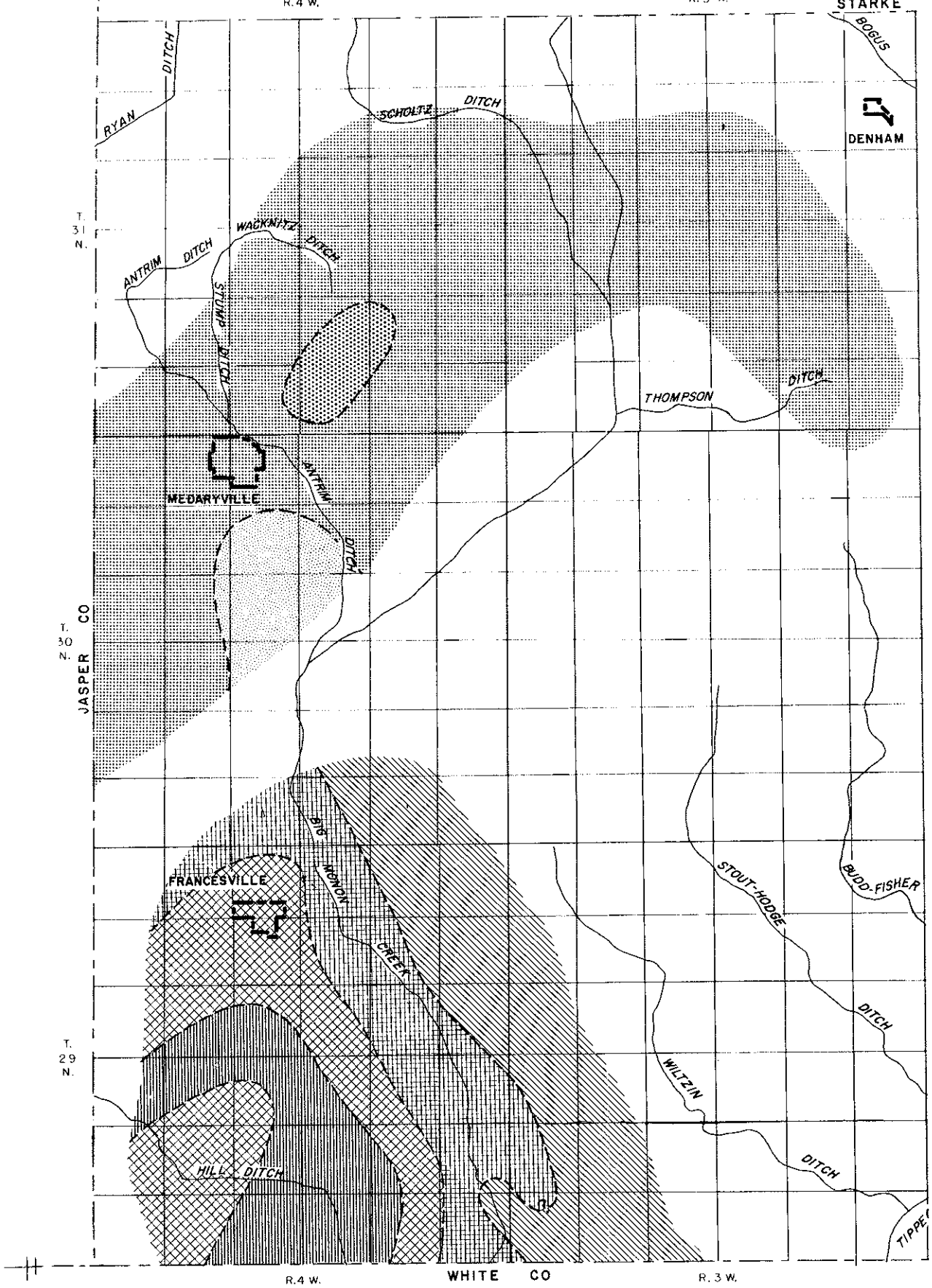


MAP OF PULASKI COUNTY, INDIANA, SHOWING HARDNESS OF WATER IN ROCKS OF SILURIAN AND DEVONIAN AGE

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

By J. S. Rosenshein and J. D. Hunn
1961

EXPLANATION

Hardness of water, in parts per million

Rocks of Devonian age

- less than 100
- 100 – 200
- More than 200
- Data not sufficient to show hardness

Rocks of Silurian age

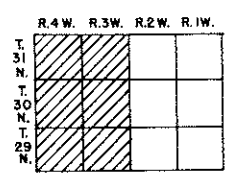
- less than 200
- 200 – 300
- 300 – 400
- More than 400
- Data not sufficient to show hardness

- 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

Base from modified General Highway and Transportation Map revised to July, 1953. Drainage and Town boundaries in part from U.S. Geological Survey topographic maps



Index map of Pulaski County showing area covered by plate

STATE OF INDIANA
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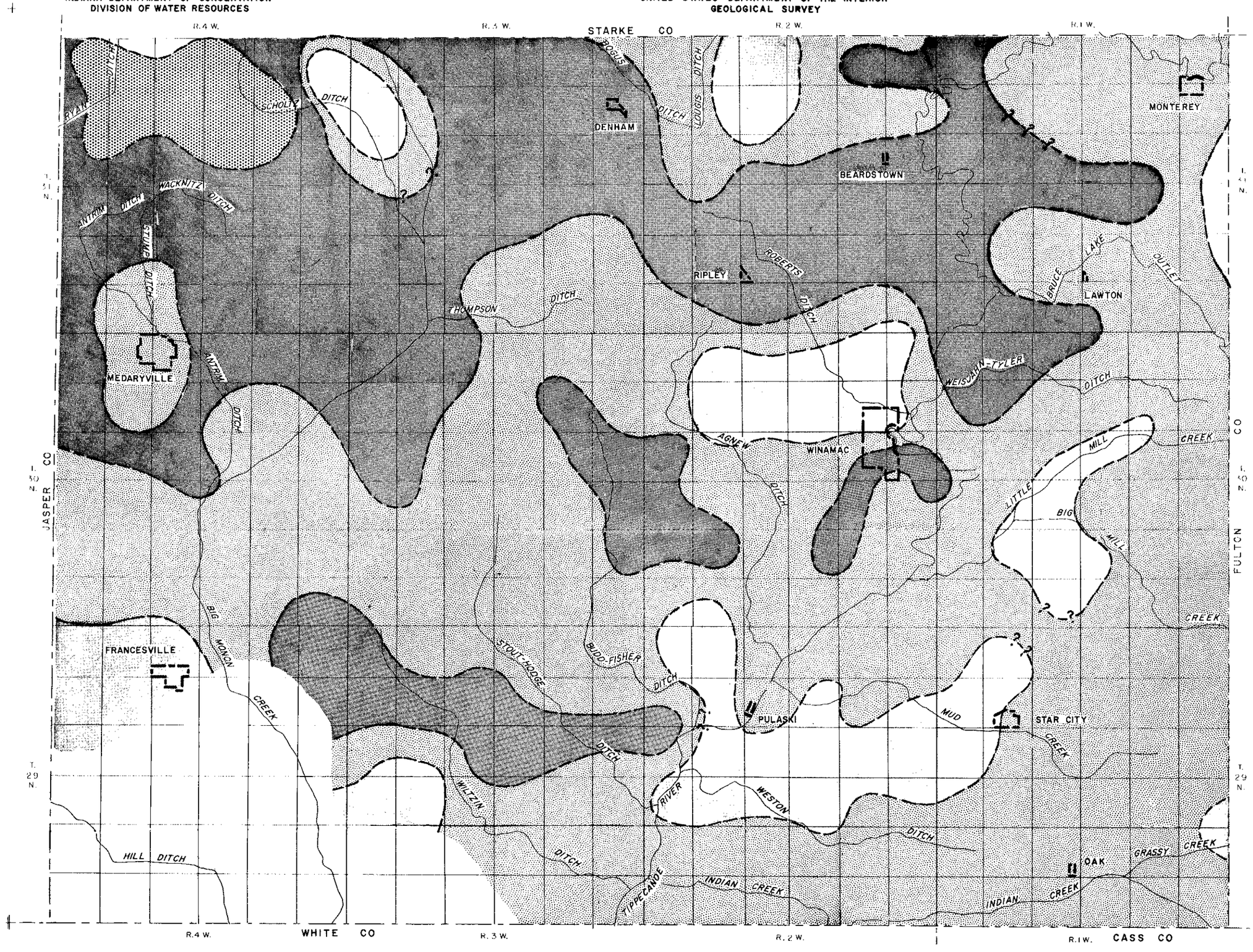
BULLETIN 24 PLATE 4



EXPLANATION

Hardness of water, in parts per million

- less than 100
- 100 — 200
- 200 — 300
- 300 — 400
- Data not sufficient to show hardness
- 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

Base from modified General Highway and Transportation Map revised to July, 1953. Drainage and Town boundaries in part from U.S. Geological Survey topographic maps

MAP OF PULASKI COUNTY, INDIANA, SHOWING HARDNESS OF WATER IN SAND AND GRAVEL OF PLEISTOCENE AGE

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

By J. S. Rosenshein and J. D. Hunn
1961