

STATE OF INDIANA
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DIVISION OF WATER

BULLETIN NO. 27

GROUND-WATER RESOURCES OF
WEST-CENTRAL INDIANA

Preliminary Report: Montgomery County



Prepared by the
GEOLOGICAL SURVEY
UNITED STATES DEPARTMENT OF THE INTERIOR
In cooperation with the
DIVISION OF WATER
DEPARTMENT OF NATURAL RESOURCES

1965

INDIANA DEPARTMENT OF CONSERVATION

John E. Mitchell, Director

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OF THE

DIVISION OF WATER RESOURCES

Charles H. Bechert, Director

GROUND-WATER RESOURCES OF WEST-CENTRAL INDIANA

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BY

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GROUND-WATER RESOURCES OF WEST-CENTRAL INDIANA

Preliminary Report: Montgomery County

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

ABSTRACT

Montgomery County, in west-central Indiana, has an area of about 507 square miles. Consolidated rocks of Mississippian Age and unconsolidated rocks of Pleistocene Age are the major sources of ground water for domestic, stock, industrial, and municipal supplies. Consolidated rocks of Pennsylvanian Age, in the extreme southwestern part of the county, are a minor source of water for domestic and stock supplies. Wells in Montgomery County vary greatly in depth and yield. Wells tapping Mississippian rocks range in depth from about 30 to 300 feet and in yield from less than 1 to about 270 gpm, while those tapping Pennsylvanian rocks range in depth from about 80 to 120 feet. Some wells tapping the consolidated rocks yield no water. Wells tapping Pleistocene sand and gravel range in depth from about 20 to 190 feet and in yield from about 5 to 1,000 gpm. Field chemical analyses of water from these sources show that the chemical quality differs greatly. A modal grouping was used to find the most frequent values for the hardness of water and for the chloride and sulfate content of the ground water in Montgomery County. This method yields the following results for water from aquifers of Mississippian Age: hardness 324 ppm; chloride, 8 ppm; and sulfate, 14 ppm; and for water from aquifers of Pleistocene Age: hardness, 324 ppm; chloride, 8 ppm; and sulfate, 15 ppm. Locally the iron content will exceed the recommended standard of the U. S. Public Health Service (1962) for drinking water.

This preliminary report contains tabulated records of about 661 wells and other drilled holes giving information about well construction, water levels, conditions of occurrence, and character of the water-bearing material; selected logs for about 117 wells and other drilled holes giving the drillers' description of the material encountered and a tentative interpretation by the authors of the geologic age; records of 9 springs giving information about geologic source, yield and temperature of the water; results for 351 field chemical analyses of water from wells, 8 from springs, and 21 from streams, giving the hardness of water and the bicarbonate, chloride, iron, and sulfate content; and water levels in 6 observation wells indicating the magnitude of short and long-term water-level fluctuations in the consolidated and unconsolidated rocks. These basic data include much of the material to be used in an interpretive report on the ground-water resources and geology of the area.

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

INTRODUCTION

Purpose and Scope

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

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

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

Location and Areal Extent

Montgomery County is located in the west-central part of Indiana (fig. 1). The county is rectangular and has an area of about 507 square miles. It is bounded on the north by Tippecanoe County, on the east by Boone, Clinton and Hendricks Counties, on the south by Parke and Putnam Counties, and on the west by Fountain and Parke Counties.

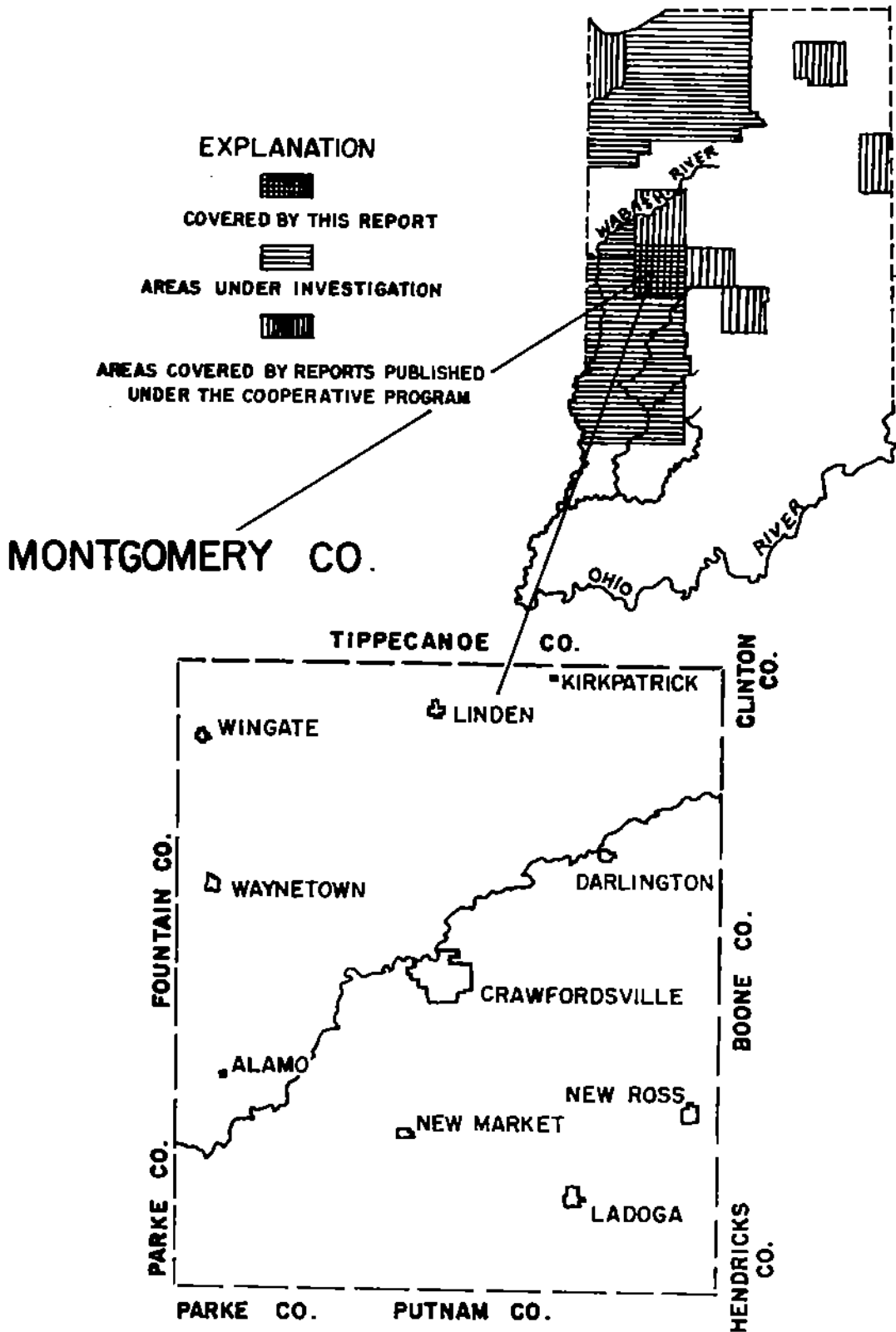


FIGURE 1. -- MAP OF INDIANA, SHOWING AREA COVERED BY THIS REPORT, AREAS UNDER INVESTIGATION, AND AREAS COVERED BY REPORTS PUBLISHED UNDER THE COOPERATIVE PROGRAM.

Well-numbering System

A numbering system is used to locate and identify the wells, holes drilled for purposes other than water supply, and springs in this report. The number assigned indicates the location according to the official rectangular survey of public lands. For example, in the number for well 19/4W-33R1, the part preceding the hyphen indicates that the well is in T. 19 N., R. 4 W. The first number after the hyphen indicates the section in which the well is located. Each quarter-quarter section (40-acre tract) within a section is given a letter symbol as shown on figure 2. Within the quarter-quarter section, wells are numbered serially. Therefore, well 19/4W-33R1 is the first well listed in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 33, T. 19 N., R. 4 W.

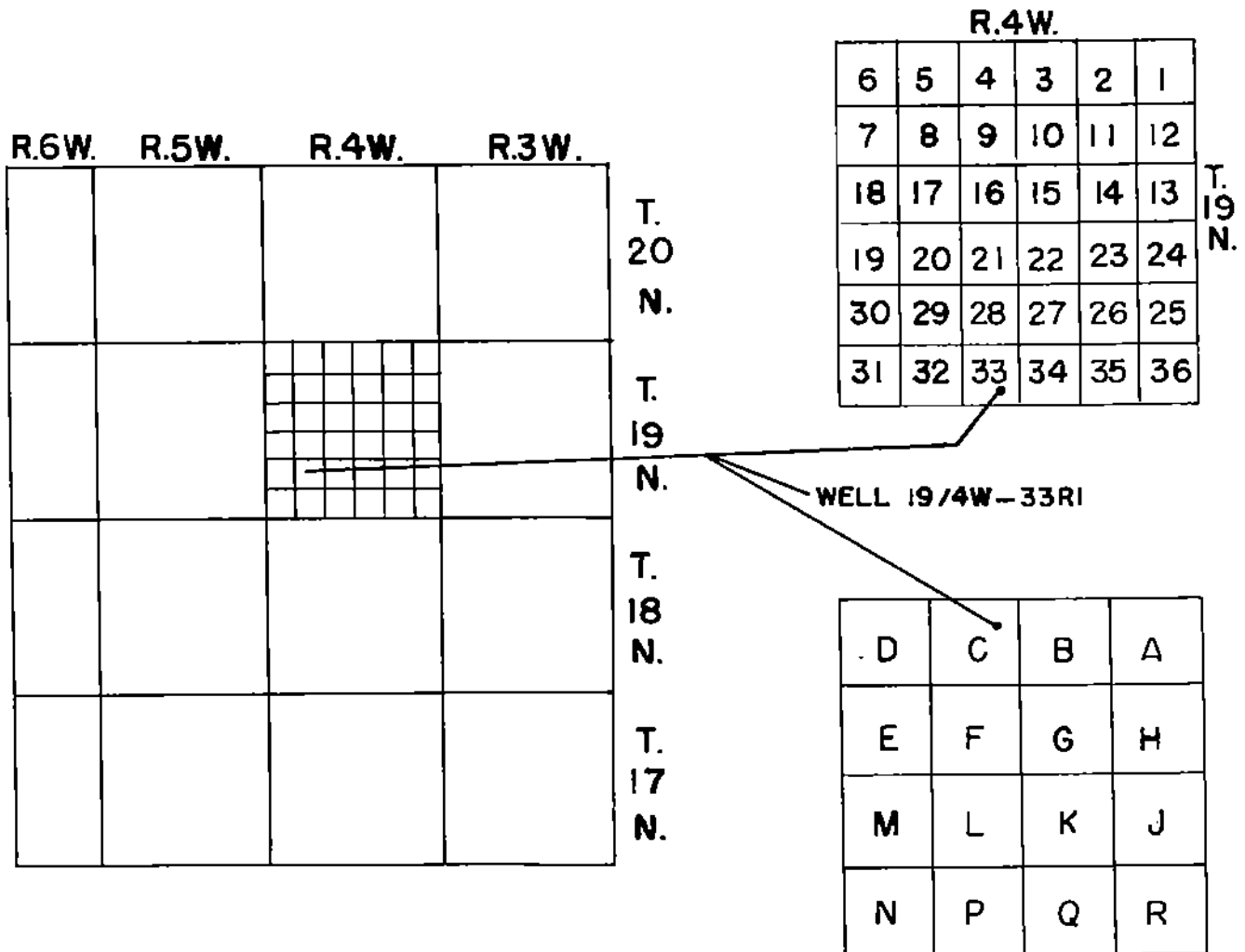


FIGURE 2.-- SKETCH SHOWING WELL-NUMBERING SYSTEM

Acknowledgments

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

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

DATA COLLECTION AND PROCESSING

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

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

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

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

GENERAL GEOLOGY AND SOURCES OF GROUND WATER

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

Rocks of Mississippian age form the bedrock surface with the exception of a minor area in the extreme southwestern corner of the county. These rocks are exposed along Sugar Creek and in scattered outcrops in the southern and eastern part of the county. Siltstones and shale of Early Mississippian age are the predominant rock types although considerable limestone is present in the eastern part of the county. Limestones of Late Mississippian age are present only in the extreme southern part of the county. All these rock units are water bearing to varying degrees, and as a group form one of the two major sources of ground water for domestic, stock, industrial, and municipal supplies in the county.

Well depths in the siltstones and shales of Early Mississippian age range from 30 to 300 feet, the most frequent depth being about 75 feet. Yields range from less than one to about 270 gpm with some dry holes reported. Well depths in the limestone of Early Mississippian age range from 40 to 185 feet, the most frequent depth being about 65 feet. Yields range from about 5 to 60 gpm. Well depths in the limestone of Late Mississippian age range from 30 to 125 feet. Yields range from less than 1 gpm to about 50 gpm with some dry holes reported. The variation in depth of the wells drilled into rock is primarily due to the thickness of glacial drift overlying the bedrock. The majority of the wells obtain water in the first 50 feet of rock penetrated.

Rocks of Pennsylvanian age are present only in the extreme southwest corner of the county. They consist chiefly of sandstones and shales and are a minor source of water for domestic and stock supplies. Well depths range from about 80 to 120 feet.

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

Preglacial streams eroded valleys in the bedrock surface in Montgomery County. Some of these valleys are more or less followed in part by the present valleys at Sugar, Cornstalk, Little Raccoon (Waveland), and Big Raccoon, and Black Creeks. Other preglacial valleys have been completely filled and buried by glacial materials and no surface expression remains.

Deposits of sand or gravel as much as 80 feet thick have been penetrated by wells drilled into these preglacial valleys. Few wells completely penetrate the sand and gravel but it is estimated the deposits will average about 20 feet in thickness. These deposits may be lying on bedrock and overlain by till or recent deposits or interbedded within the till. The sand and gravel is not necessarily continuous--locally till may completely fill a preglacial valley. The sand and gravel deposits in the preglacial valleys are overlain by till.

except in a few areas. In an area west of Crawfordsville near the junction of Sugar and Black Creeks sand and gravel is overlain by Recent alluvium--erosion having removed the till which once overlaid the sand and gravel.

Yields from these sand and gravel deposits range from 5 to 1,000 gpm. The saturated thickness and the grain size of the material in the deposits can change rapidly in a short distance, and are two factors controlling potential yield.

Yields sufficient for domestic, stock, and possibly small industrial and municipal supplies are available from the sand and gravel deposits associated with the preglacial valleys. Yields sufficient for large industrial and municipal supplies are available in the vicinity of Crawfordsville and may be available from a small area in the southeastern part of the county from sand and gravel deposits associated with preglacial valleys.

Large amounts of glaciofluvial sand and gravel in the northern part of the county are not associated with preglacial valleys. These sands and gravels are interbedded in till as relatively thin but areally extensive sheet-like deposits 10 to 15 feet in thickness. Information is not sufficient to determine whether these sands and gravels compose one large mass or are several units, each of which is areally extensive. Yields of as much as 20 gpm, more than adequate for domestic and stock supplies, have been reported from wells penetrating these deposits. Yields sufficient for small industrial and municipal supplies are possible in some areas.

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

Plate 2 shows availability of ground water in the consolidated and unconsolidated rocks underlying the county. Plate 3 shows generalized hardness of water conditions in the consolidated and unconsolidated rocks.

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

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

Pleistocene aquifers			
	Hardness ppm	Chloride ppm	Sulfate ppm
Maximum	716	78	280
Minimum	136	<1	10
Mode	324	8	15

^{1/} mode: The item, in a series of statistical data, which occurs of greatest frequency. (Webster).

Mississippian aquifers

	Hardness ppm	Chloride ppm	Sulfate ppm
Maximum	580	274	210
Minimum	16	1	9
Mode	324	8	14

Table 2.--Significance of selected dissolved mineral constituents and properties of ground water ^{a/}

Constituent or property	Significance
Iron (Fe)-----	Oxidizes to reddish-brown sediment upon exposure to air. More than about 0.3 ppm stains laundry and utensils reddish-brown. More than 0.5 to 1.0 ppm imparts 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 in large amounts in combination with sodium. Increases the corrosiveness of water when in large amounts.
Hardness as CaCO ₃ (Calcium and magnesium)-----	Hard water increases amount of soap needed to make lather. Forms scale in boilers, water heaters, and pipes. Leaves curdy film on bathtubs and other fixtures and on materials washed in the water.

CONFINED AND UNCONFINED CONDITIONS

In Montgomery County ground water occurs in the consolidated and unconsolidated rocks chiefly under confined (artesian) conditions, but in some places it occurs under unconfined (water-table) conditions. Under confined conditions, the aquifer water-bearing material is overlain directly by relatively impervious material, and the water, which is under pressure will

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

rise in the well above the bottom of the impervious material. Under unconfined conditions, the aquifer is overlain directly by permeable unsaturated material and the water does not rise above the level at which it is encountered.

TYPES OF WELLS

Drilled wells are the principal type of water wells used in Montgomery County. A small number of dug and driven wells are still in use and occasionally one is constructed. Most water wells are 4-inches or more in diameter and are constructed by the cable-tool or percussion method of drilling. A well drilled by the cable-tool method is constructed by a combination of drilling, bailing, and driving casing. Where the water-bearing material is consolidated rock, the well casing generally is driven a few inches to several feet into rock, and the well is finished as an open hole in rock. Where the water-bearing material is sand and gravel, the well casing is driven into the water-bearing zone and is left as an open-end casing, or the lower end of the casing is slotted or perforated, or a well screen is set opposite the water-bearing zone below the end of the casing. A modification of the above type, the gravel-packed well, has a gravel lining between the well screen and the water-bearing material.

In Montgomery County the majority of industrial and municipal supply wells drilled in sand and gravel are equipped with well screens--a few are finished with slotted or perforated casing. Most domestic and stock wells that have been completed in sand and gravel use a screen but some are finished with an open-end casing or the casing is slotted or perforated. The use of wire-wound, gauze-wrapped, or gauze-washer well points or screens in domestic and stock wells is becoming more widespread. Successful wells can be obtained by the use of screens, in many water-bearing sand and gravel deposits from which it was once considered impossible to obtain water. Table 3 relates the grain-size in inches and millimeters to the slot and gauze size of screens commonly used in water wells.

Table 3.--Grain size and equivalent screen openings

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

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

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

SUMMARY

Preliminary evaluation of the basic data shows that adequate quantities of ground water are generally available for domestic, stock, small municipal, and small industrial use from the rocks of Mississippian age. Rocks of Pennsylvanian age are a minor source of ground water for domestic and stock use.

Ground water for domestic, stock, and locally for small industrial and small municipal supplies is available from sand and gravel of Pleistocene age associated with preglacial bedrock valleys. In the vicinity of Crawfordsville and possibly in a small area in the southeastern part of the county large supplies are available from the afore-mentioned deposits. Ground water for domestic, stock, and small industrial and municipal supplies generally are available from thin but areally extensive sand and gravel deposits in the northern part of the county.

The quality of the water from the rocks of Mississippian, Pennsylvanian, and Pleistocene age varies greatly. Generally water from these sources exceeds the U. S. Public Health Service (1962) drinking-water standards for iron. The water is generally hard to very hard.

RECORDS

The records of about 661 water wells and holes drilled for purposes other than water supply are given in table 4. The table gives information about well construction, water levels, yields, and drawdowns, thickness and character of the water-bearing material, conditions of occurrence, use, and other pertinent data. The altitude of the land surface at all wells, except oil or gas exploration holes, was determined from topographic maps. Altitudes of oil or gas exploration holes were on the records when received and were checked against the topographic maps.

Table 5 contains the selected logs of about 117 wells and other drilled holes. This table gives the drillers' description of the material encountered, pertinent remarks with regard to the material, and tentative interpretation by the authors of the geologic age of the material. The logs contain local terms used by drillers in describing the material penetrated. A glossary of drillers' terms is on page 11.

The results of 351 analyses of well waters are given in table 6. These chemical analyses were determined in the field by the U. S. Geological Survey. The table gives information about geologic source, temperature, concentration in parts per million of iron, alkalinity (expressed as bicarbonate), sulfate, and chloride content, and hardness of water. The U. S. Public Health Service (1962) drinking-water standards state that the chemical constituents should not exceed the following concentrations: iron, 0.3 ppm; sulfate, 250 ppm; chloride, 250 ppm. Although no official standards have been established for hardness of water, the following classification is in general use: 0-60 ppm, soft; 61-120 ppm, moderately hard; 121-200 ppm, hard; more than 200 ppm, very hard. Water having a hardness of more than 200 ppm requires softening for many purposes.

Records of 9 springs are given in table 7. This table gives geologic source, yield, use, temperature of water, and the results of field chemical analyses for 8 springs.

Table 8 gives the results of 21 field chemical analyses of water from streams in Montgomery County with other data.

Water levels in 6 observation wells in Montgomery County are given in tabel 9. The water levels were measured with an engineers steel tape or by recording gages. Daily high water levels are given for current observation wells equipped with recording gages and daily 2 AM water levels for the discontinued observation well Montgomery 4 and periodic water levels are given for the observation wells that were measured manually. The locations of these observation wells are shown on plate 1.

GLOSSARY OF DRILLERS' TERMS

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

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

Gumbo.--Sticky clay.

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

Juggy.--Water saturated material, usually a silt or fine sand.

Livery.--See juggy.

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

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Table 4.--Records of wells, Montgomery County, Indiana--Cont.

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land surface (feet)	Diameter (inches)	Depth of casing (feet)	Tribble	Water-bearing zone				Yield (gpm)	Water level (feet)	Remarks
										Depth to top (feet)	Thickness (feet)	Material	Geologic age			
17/3W-31Q1	G. Denny	Holt Bros.	1952	820	Dr	190	4	110	Oh	110	80	Sh	M	C	30	A
34B1	G. W. Dean	do	1944	880	Dr	130	4	130	Oh	---	---	---	---	C	30	A: Well backfilled with gravel to 207 ft
38Q1	H. Schockensy	R. L. Scobee and Sons	11-43	810	Dr	217	6	217	Co	---	---	---	---	C	30	A
17/4W-3B1	D. Hester	do	---	840	Dr	100	4	---	Oh	30	70	Sh?	M	C	10	A
3Q1	do	do	---	845	Dr	180	4	---	Oh	---	---	---	---	C	30	A
381	do	do	---	845	Dr	180	4	---	Oh	---	---	---	---	C	30	A
581	E. J. Bonwell	Holt Bros.	1924	830	Dr	82	4	30	Oh	30	55	Sh?	M	C	11	A
6B1	A. Van Cleave	A. Armentrout	12-11	800	Dr	82	4	72	Oh	38	10	Sh?	M	C	9	A
6C1	Mr. Saylor	do	1908	800	Dr	56	4	4	Oh	---	---	---	---	C	25	A
6D1	Town of New Market	do	10-06	790	Dr	128	4	128	Oh	---	---	---	---	C	25	A
6E1	W. L. Surfaco	do	1907	800	Dr	88	4	88	Oh	---	---	---	---	C	24	A
6F1	W. L. Warbritton	A. Armentrout	2-12	800	Dr	74	4	74	Oh	---	---	---	---	C	24	A
6G1	E. Armstrong	do	1907	800	Dr	68	4	88	Oh	---	---	---	---	C	24	A
6H1	E. Armstrong	do	1908	805	Dr	143	4	---	Oh	---	---	---	---	C	24	A
6I1	S. Spencer	do	11-08	805	Dr	78	4	76	Oh	34	26	Sh?	M	C	15	A
6J1	J. Swearington	do	1-09	830	Dr	80	4	54	Oh	---	---	---	---	C	15	A
711	H. Saylor	do	3-12	820	Dr	110	4	110	Co	---	---	---	---	C	5	A: well backfilled with gravel to 162 ft
7N1	J. Van Cleave	do	---	820	Dr	---	4	---	Co	---	---	---	---	C	5	A
8P1	H. Surveys	do	2-09	815	Dr	80	4	59	Oh	59	1	Sh?	M	C	7	A
11H1	R. H. Everhart	Holt Bros.	1948	840	Dr	82	4	---	Oh	---	---	---	---	C	5	A
16C1	M. Smith	do	8-27-32	845	Dr	53	4	51	Oh	51	41	Sh?	M	C	15	A
16J1	V. Jacks	do	1949	855	Dr	90	4	---	Oh	---	---	---	---	C	30	A
18H1	do	do	---	855	Dr	70	4	32	Oh	32	38	Sh?	M	C	6	A
17N1	C. Surfaco	do	---	840	Dr	---	---	---	Oh	---	---	---	---	C	7	A
17Q1	F. Blaydes	do	---	845	Dr	---	---	---	Oh	---	---	---	---	C	7	A
17R1	do	do	---	845	Dr	---	---	---	Oh	---	---	---	---	C	7	A
18A1	F. A. Martin	A. Armentrout	8-07	855	Dr	68	4	48	Oh	48	18	Sh?	M	C	18	A
18N1	T. Contry	do	9-04	835	Dr	84	4	54	Oh	54	40	Sh?	M	C	18	A
18H1	Crabb, Reynolds, and Taylor	do	7-04	840	Dr	78	4	48	Oh	48	30	Sh?	M	C	18	A
19Q1	A. Hester	Holt Bros.	2-11-60	850	Dr	101	4	101	S	92	9	G	P1	C	30	L, A: Dd 10 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 4-in dia, no 40 slot
19R1	L. Amos	do	1952	850	Dr	176	4	174	S	170	4	S, G	P1	C	36	A
21C1	R. W. Rousso	C. Surfaco	---	850	Dr	180	4	---	Oh	20	60	La	M	C	8	A
22E1	J. A. Grador	do	---	850	Dr	128	4	26	Oh	---	---	---	---	C	18	A
25B1	J. Young	do	---	810	Dr	103	2	103	S	---	---	---	---	C	36	A
25D1	do	Holt Bros.	---	810	Dr	140	2 1/2	80	Oh	80	60	Sh?	M	C	20	A
25C1	do	do	---	810	Dr	80	4	---	Oh	---	---	---	---	C	23	A
25G1	do	Holt Bros.	3-49	800	Dr	99	4	---	Oh	70	29	Sh?	M	C	35	A
27J1	D. Brown	do	---	820	Dr	130	2 1/2	---	Oh	---	---	---	---	C	30	A
28K1	E. F. Stewart	do	---	875	Dr	48	4	---	Oh	28	20	La	M	C	30	A
30H1	F. Wilkinson	A. Armentrout	---	875	Dr	---	---	---	Oh	---	---	---	---	C	30	Well flows in spring of year
30Q1	C. Wilkinson	do	---	870	Dr	122	6	---	Oh	96	40	La	M	C	30	A
31D1	P. Priobbe	Holt Bros.	1847	850	Dr	141	4	122	Oh	---	---	---	---	C	45	A
31E1	do	do	1948	850	Dr	115	4	---	Oh	---	---	---	---	C	45	A
31G1	do	do	---	855	Dr	115	3	24	Oh	74	7	La?	M	C	45	A
32E1	J. Poyata	Buark and Toney	1947	855	Dr	128	4	60	Oh	60	68	La?	M	C	10	P
32F1	R. Higbee	Holt Bros.	1949	850	Dr	110	5	---	Oh	---	---	---	---	C	48	A
32G1	do	do	---	850	Dr	120	3	---	Oh	---	---	---	---	C	10	A
34E1	I. Parks	do	---	780	Dr	120	3	70	Oh	---	---	---	---	C	5	A
35A1	R. Powers	Holt Bros.	1936	785	Dr	170	4	144	Oh	144	26	Sh?	M	C	20	A
35B1	V. Biggelo	Ruark Well Drilling	1957	785	Dr	88	6	43	P	42	26	Sh?	M	C	35	A
17/3W-111	J. W. Vaught	A. Armentrout	2-19	800	Dr	88	4	49	Oh	49	20	C	P1	C	12	A
17/3W-112	J. H. Britton	do	11-12	800	Dr	49	4	49	Oh	---	---	---	---	C	20	A
113	A. Armentrout	do	7-02	800	Dr	72	4	---	Oh	48	25	Sh	M	C	20	A

17/5W- 1A4	Pennsylvanian Railroad	800	Dr	140	B	Oh	44	80	Ss	X	C	18	190	P	L; Dd 3.75 ft after 2 hr pumping 100 Gpm; Well owned by Town of Now Market
1C1	G. Basonark	2-10	Dr	57	4	35	35	32	Ss?	M	C	9		S	L; Dd 3.75 ft after 2 hr pumping 100 Gpm; Well owned by Town of Now Market
1J1	P. Johnson	4-07	Dr	64	4	37	37	27	Ss?	M	C	16		D, S	
1K1	C. Gray	3-09	Dr	157	4	123	123	34	Ss?	M	C	41		D, S	
1L1	L. Garland	11-12	Dr	100	4	80	80	20	Ss?	M	C	35		D, S	
1M1	E. L. Smith	18-03	Dr	150	4	41	41	13	Ss?	M	C	100		D, S	
1N1	J. Payne	18-03	Dr	208	4	61	60	147	Ss?	M	C	24		D, S	
1O1	Holt Bros.	2-11	Dr	68	4	48	48	16	Ss?	M	C	12		D, S	Shale at 30 ft
1P1	K. A. Allen	8-11	Dr	63	4	30	26	16	Ss?	M	C	30		D, S	
1Q1	L. S. Everson	8-11	Dr	52	4	30	26	16	Ss?	M	C	30		D, S	
1R1	R. C. Taylor	10-23-48	Dr	743	6	230	220	23	Sh-sg	Pl	C	22		D, S	Shale at 100 ft, A
1S1	H. Snyder	1946	Dr	100	4	100	100	25	Sh	M	C	18		D, S	
1T1	L. Servien	12-08	Dr	102	4	77	77	25	Sh	M	C	18		D, S	A, B. Vanhorn 1; L (partial) L, A; Dd 10 ft after 10 hr pumping at 5 Gpm
1U1	Foster et al	4-2-51	Dr	2,315	4	111	111	111	Sh	M	C	18		D, S	L, A; Dd 10 ft after 10 hr pumping at 5 Gpm
1V1	Mrs. Taylor	8-12-59	Dr	114	4	111	111	111	Sh	M	C	18		D, S	L, A; Dd 10 ft after 10 hr pumping at 5 Gpm
21F1	L. Thompson	1947	Dr	127	4	87	83	45	Sls	M	C	27		D	Drift 0 to 83 ft
21P2	W. Redden	1947	Dr	117	4	85	80	37	Sls	M	C	10		P	Drift 0 to 80 ft; A
21P3	Browns Valley Church	1946	Dr	116	4	104	100	16	Sh-HH	M	C	9		L	Drift 0 to 80 ft; A
21M1	Indiana Farm Bureau Co-op		Dr	110	4	110	110		G	Pl	C			I	A
22G1	G. Grimes	1048	Dr	111	4		30	61	Ls	M	C	20		D, S	A
22X1	C. Lydick	1886	Dr	125	72	25	25	44	Sh	Pl	C	20		D	Dug to limestone
22M1	M. C. Taylor	6-3-47	Dr	124	4	88	80	44	Sh	M	C	20		D	Dug to limestone
22R1	do		Dr	60	3					M	C			S	
25C1	R. Brewer	1947	Dr	33	4	20	18	15	Sls	M	C	13		D, S	Drift 0 to 18 ft; A
25G1	W. Metzger	1956	Dr	97	4	40	40	97	Ls	M	C	20		D, S	L, A; Dug to limestone
27G2	do		Dr	30	60	30				Pl	C			X	A; Dug to limestone
29L1	H. N. Fullenwider		Dr	120	6						C	12		D, S	
29L2	do		Dr	165	6						C	12		D, S	
30X1	J. Whitcotton	1947	Dr	158	4	158	60	140	Sh	M	C			D, S	A
31G1	H. M. Moser		Dr	260	4				G	Pl	C			S	A
32C1	G. L. Billman		Dr	88	4	86	86	35	G	Pl	C			S	A
32E1	do		Dr	35	3	35	35			Pl	C			K	L, A
32E2	do		Dr	30	30	30				Pl	C			D, S	A
32H1	C. R. Overstreet	1949	Dr	121	6	24	24	59	Ls	M	C	15		D, S	L, A
35K1	O. Rivors	1947	Dr	83	6	24	24	59	Ls	M	C	15		D, S	L, A
35L1	L. Williams	1965	Dr	20	4	20	20	34	Sh	M	C	15		D, S	L, A
36K1	E. Brown	8-25-59	Dr	88	4	56	54	34	Sh	M	C	75	10	D	L; Reported Dd 0 ft after 2 hr balling at 18 Gpm. L, A; Reported Dd 0 ft after 1 hr pumping at 10 Gpm
17/6W- 2E1	R. Bennett	4-12-61	Dr	100	4	95	95	5	Sh	M	C	5		D	A
2H1	R. Morrow	1050	Dr	45	4		10	29	Sh	M	C	5		D	A
2J1	G. L. Dillman	1950	Dr	45	4		17	28	Sh	M	C	12		D	A
10J1	State of Indiana	1953	Dr	104	6		32	72	Ss	P	C	51	60	P	Clay and Hardpan 0 to 32 ft; A; Dd 9 ft after 2 hr pumping at 60 Gpm
11A1	H. Thompson	1965	Dr	216	4	40	45		Ss	P	C	70		D	Water from arvicolas at 45 ft
11B1	W. Davis	1948	Dr	105	1		60	45	Sh	M	C	65		D	A
11N1	State of Indiana		Dr	101	4		65	36	Sh	M	C	50		D	A
12N1	H. Coons	1949	Dr	67	4		50	17	Sh	M	C	10		S	A
13K1	W. L. Glenn		Dr	21	20	21				Pl	C			O	Observation well Montgomery 4; W.
22G1	W. Bullordick	1956	Dr	51	4	51			G	Pl	C			S	A; Screen, no 60 wlot
22J1	do	1950	Dr	35	4	35			G	Pl	C	10	10	S	A
23K1	W. G. Moser and M. Dickard		Dr	125	4		80	45	Sh	M	C	30	18	S	A
25E1	C. Reynolds	1947	Dr	138	6	110	105	30	Sh	M	C	30	12	D, S	Drift 0 to 105 ft; A
25L1	C. Lamson		Dr	10	30	16				Pl	C	14		O	Observation well Montgomery 3; W.
25P1	Town of Wavoland	3-6-61	Dr	180	6	121					C			T	L; Dry hole
34D1	R. Johnson		Dr	47	4	12	12	35	Ls	M	C	20		D	Surface 0 to 12 ft; A
34D1	R. Mitchell		Dr	40	6						C			D	Dry hole; Rock at 40 ft
35D1	Town of Wavoland	3-29-61	Dr	150	6	121					C			T	L; Dry hole
36C1	do	1948	Dr	63	10	63	40	23	G	Pl	C	75		D	Observation well Montgomery 2; W
36C2	Pennsylvania Railroad		Dr	8	36	8				Pl	C			D	Observation well Montgomery 2; W
36C3	B. Banta		Dr	18	36	18				Pl	C			O	Observation well Montgomery 1; W; B-in casing not in well and well backfilled with crushed stone

Table 4. --Records of wells, Montgomery County, Indiana--Cont.

Well No.	Owner	Driller	Data completed	Altitude (feet)	Type of well	Depth of well below land surface (feet)	Diameter (inches)	Depth of casing (feet)	Fluids	Water-bearing zone					Yield (gpm)	Uses	Remarks
										Thickness (feet)	Material	Geologic age	Ground-water occurrence	Water level (feet)			
17/6K-35E1	Town of Waveland	Holt Bros.	2-21-61	760	Dr	100	6	52	Ch		Sh	M	C	6	P	L; Dd 44 ft after 7 hr pumping at 30 gpm	
35G1				775	Dr	320		98	Oh		Sh	M	C		P	L; Dd 44 ft after 8 hr pumping at 25 gpm; Water from crevice in limestone at 45 ft	
35H1			4-14-61	760	Dr	100	6	36	Oh		La	M	C	+4	P		
19/3K-2P1	G. Ludwig		1942	865	Dr	53	4	53	S		G	P1	C	10	D,S	A	
501	F. Sadlons		1944	830	Dr	80	4	80	S		G	P1	C	30	D,S	A; Screen, no 100 slot	
501	M. Dacy		1948	830	Dr	50	4	50	S		G	P1	C	25	D,S	A	
771	R. Henderson	Swisher and Shank	1957	815	Dr	80	4	36	Oh		Sh	M	C	0	D	A	
871	C. Ward	Holt Bros.	1949	870	Dr	80	4	30	Oh		Sh	M	C	3	D,S	A	
1071	P. Jacob		1948	880	Dr	71	4	50	Oh		Sh	M	C	15	D,S	A	
1071	S. C. McClain		1949	880	Dr	60	4	55	Oh		La	M	C	18	D,S	A	
1201	L. E. Chadwick		1943	870	Dr	200	4	60	Oh		Sh	M	C	1.5	N	A	
1202	L. E. Chadwick		1952	870	Dr	120	4	35	Oh		Sh	M	C	5	D,S	A	
1811	D. P. Crumba		1948	880	Dr	58	4	40	Oh		Sh	M	C	10	S	A	
1811	H. Hatch	Holt Bros.	7-23-59	845	Dr	90	4	40	Oh		Sh	M	C	6	D	L, A; Dd 10 ft after 2 hr pumping at 5 gpm	
1851	Maco School		1938	840	Dr	100	6	35	Oh		Sh	M	C	15	P	L; Reported Dd 0 ft after 1 hr bailing at 10 gpm	
1851	A. E. Woodard		12-1-60	845	Dr	50	4	40	Oh		Sh	M	C	10	D	A	
1881	H. Ward		1948	845	Dr	58	4	33	Oh		Sh	M	C	4	D	A	
1901	E. Heimbach		7-15-60	850	Dr	46	4	46	S		G	P1	C	20	D	Clay 0 to 40 ft; A; Dd 4 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
22L1	D. Harris			875	Dr	120	4		Oh		La	M	C	25	D	A; Screen, no 40 slot	
22L2	F. A. Williams		4-50	870	Dr	38	4	39	S		G	P1	C	8	D,S	Dry hole; Shale at 92 to 112 ft	
22L3			1950	870	Dr	112	4								D	A	
23Q1	E. M. Williams		1941	895	Dr	81	4	61	S		G	P1	C	30	D,S	A	
24D1	W. Bratton	Swisher and Shank		880	Dr	87	4	87	S		G	P1	C	5	D	A; Shop screen, 3-in dia, 1/16 in gauze opening	
25M1	Dr. Shockley	Holt Bros.	1940	890	Dr	120	4	100	Oh		Sh	M	C	15	D	A	
25N1	M. Brown			890	Dr	49	4	49	S		S,G	P1	C	15	D	A	
25N2	R. Graves			890	Dr	51	4	48	S		S,G	P1	C	18	D	A	
25A1	B. G. Miller		1935	930	Dr	75	4	65	Oh		Sh	M	C	10	D	A	
25R1	J. Brown	Swisher and Shank	8-16-57	880	Dr	52	4	52	S		G	P1	C	40	D	Hardpan 0 to 48 ft; Shop screen, 3-in dia, 1/8 in gauze opening	
28B1	G. Foltner	Holt Bros.	1947	800	Dr	51	4	51	S		G	P1	C	30	D,S	A; Screen, no 100 slot	
29J1	L. Lian		1949	850	Dr	120	4	120	S		G	P1	C	4	D,S	A; Reported Dd 0 ft after 1 hr pumping at 12 gpm; Screen, 2 ft of 4-in dia, no 40 slot	
29Q1			11-25-59	860	Dr	138	4	138	S		G	P1	C	14	D	L; Dd 15 ft after 1 hr pumping at 10 gpm	
30J1	S. H. Harris			860	Dr	40	4	40	Oh		La,Sh	M	C	10	D,S	L; Dd 15 ft after 1 hr pumping at 10 gpm	
30R1	L. McMullen		6-2-61	860	Dr	132	4	128	Oh		La,Sh	M	C	10	D,S	A	
31B1	S. H. Harris		1945	860	Dr	42	4	42	S		G	P1	C	15	D,S	A; Reported sulphur water	
31H1				860	Dr	23	4	23	Oh		G	P1	C	2	D	L, A; Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
32B1	J. J. Hubert		1938	870	Dr	80	4	50	Oh		La	M	C	30	D,S	A	
35A1	Mrs. Wright		2-13-60	885	Dr	60	4	60	S		G	P1	C	10	D	L; A; Reported sulphur water after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	

18/37-35H1	Mr. Feathers	5-3-60	680	Dr	44	4	44	S	38	G	PI	C	10	10	D	Ln;	
35H2	Whitcotton Lumber Co.	4-6-61	880	Dr	10	4	40	S	34	G	PI	C	5	10	I	Ln; Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot L; Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
36D1	Christian Church	1948	880	Dr	53	4	53	S	49	G	PI	C	16	---	P	Reported Dd 0 ft pumping at 10 gpm	
36D2	Powers and Chock	1948	885	Dr	41	4	44	S	41	G	PI	C	11	10	D	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
36D3	Mr. Kroes	1952	885	Dr	47	4	47	S	44	S,G	PI	C	10	---	D	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
36D4	E. Jarvis	10-10-59	885	Dr	50	4	50	S	48	G	PI	C	15	10	D	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
36D5	W. Whitcotton	1949	885	Dr	103	4	---	Oh	99	Ls	M	C	12	---	D,S	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
18/41-201	Y. Jaynes	1945	810	Dr	101	4	101	Oh	---	G	PI	C	30	---	D,S	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
201	D. M. Walters	5-28-61	815	Dr	130	4	---	Oh	100	Sh	M	C	4	20	D	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
201	D. Keefe	5-28-61	740	Dr	49	4	49	S	46	C	PI	C	4	20	D	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
201	G. Bonnah	1952	870	Dr	37	4	38	S	---	S,G	PI	C	12	---	D,S	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
201	Frankfort Rendering Co.	1957	760	Dr	79	---	79	S	---	S	PI	C	---	---	I	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
301	F. Calhoun	8-11-59	800	Dr	104	4	104	S	80	S,G	PI	C	67	10	D	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
302	L. Shrinor	10-11-45	800	Dr	155	---	165	S	---	G	PI	C	85	---	D	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
301	Swisher and Swank	1953	795	Dr	102	4	102	S	---	G	PI	C	45	10	I	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
301	A. Bonebrake	795	795	Dr	150	4	150	S	---	G	PI	C	---	---	P	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
302	Swisher and Swank	795	795	Dr	135	4	105	Oh	---	Ss	M	C	30	8	P	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
303	Crawfordville Hotel	5-49	790	Dr	135	4	---	Oh	80	Ss	M	C	30	8	P	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
304	Den Bar Drive-In	795	795	Dr	114	4	114	S	104	G	PI	C	38	50	P	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
301	Thontre	795	795	Dr	---	---	---	---	---	---	---	---	---	---	---	---	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot
301	J. Coonan	795	795	Dr	---	---	---	---	---	---	---	---	---	---	---	---	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot
301	N. Howler	11-5-57	795	Dr	58	4	58	S	55	S,G	PI	C	---	---	D	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
4A1	Swisher and Swank	5-3-59	790	Dr	62	4	62	S	58	S,G	PI	C	40	12	D	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
4D1	Construction Co.	1944	790	Dr	200	6	---	Oh	125	Sh	M	C	---	---	I	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
4F1	Sommer Motel Crnit	795	795	Dr	80	4	60	Oh	---	Sh	M	C	---	---	N	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
4H1	C. Jones	795	795	Dr	14	5	14	Oh	---	S,G	PI	C	---	---	Jr	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
4N1	City of Crawfordville	795	795	Dr	16	14	16	S	---	S,G	PI	C	---	---	P	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
4N2	Fluorine Corporation	9-12-56	795	Dr	204	10	150	S,Oh	123	C,S	PI	C	90	100	I	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
5A1	Swisher and Swank	1947	790	Dr	157	8	157	---	159	Ls	M	C	---	---	I	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
5A2	Mid-States Steel and Wire Co.	1940	790	Dr	226	12	164	S,Oh	---	G	PI	C	---	---	I	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
5A3	C. Krauss and Sons	1940	790	Dr	164	---	164	S,Oh	---	G	PI	C	75	75	I	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
5B1	Polar Ice and Fuel Co.	1939	790	Dr	77	8	77	S	89	G	PI	C	60	---	N	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
5D2	F. Branhan	1945	790	Dr	70	8	70	S	67	G	PI	C	64	---	X	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
5D1	Wabash College	7-18-47	770	Dr	126	10	126	S	106	G	PI	C	91	300	X	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
6A1	Wabash College	1940	750	Dr	135	---	---	---	---	G	PI	C	---	---	T	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
6C1	R. R. Donnelly and Sons	3-41	745	Dr	129	12	120	S	90	G	PI	C	84	1,000	I	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
6C2	C. Krauss and Sons	12-18-50	750	Dr	102	4	89	Oh	66	Sh	M	C	45	12	D	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
6E1	T. L. Powell	5-17-61	730	Dr	55	---	35	S	32	S	PI	C	21	10	D	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
6F1	R. L. Kinkaid	8-15-59	730	Dr	49	4	49	S	22	S,G	PI	C	18	12	D	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
6H1	J. C. Polley	11-1-57	745	Dr	47	4	47	S	---	G	PI	C	---	---	D	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
6H2	C. A. Miller	11-1-57	745	Dr	47	4	47	S	---	G	PI	C	---	---	D	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	
6K1	M. Cooper	11-1-57	745	Dr	47	4	47	S	---	G	PI	C	---	---	D	L; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot	

Table 4. -- Record of wells, Montgomery County, Indiana -- Con.

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land surface (feet)	Diameter (inches)	Depth of casing (feet)	Finish	Water-bearing zone					Remarks		
										Depth to top (feet)	Thickness (feet)	Material	Geologic age	Ground-water occurrence		Water level (feet)	Yield (gpm)
18/4W- 6R1	Mr. Graef	Swisher and Swank	1956	780	Dr	62	4	82	S		59	3	G	P1			Hardpan 0 to 50 ft; Shop screen, 3-in dia, 1/16 in gauze opening
701	L. Huffman	F. Drathan	1929	760	Dr	90	4	---	Oh		50	40	Sh?	M			Lam. A; Water enters well around end of casing
731	M. K. Brown	Swisher and Swank	1957	785	Dr	68	4	58	Oh		56	2	G	P1			L; Dd 5 ft after 1 hr pumping at 5 gpm
732	T. Davis	Molt Bros.	12-18-59	785	Dr	72	4	56	Oh		58	18	Sh	M			Lam
733	B. R. Goins	Swisher and Swank	5-17-58	790	Dr	80	4	62	Oh		80	20	Sh	M			Drift 0 to 120 ft
801	R. Townsend	Runk and Toney	1947	790	Dr	185	---	120	Oh		120	85	Sh	M			Drift 0 to 63 ft; A
822	D. Copo	---	1947	780	Dr	145	---	87	Oh		83	62	Sh	M			L; A; Reported Dd 0 ft after 2 hr pumping at 10 gpm;
850	W. Williams	Molt Bros.	8-23-60	785	Dr	64	4	64	S		52	12	G	P1			L; A; Reported Dd 0 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 4-in dia, no 40 silt
8E1	Dr. Richardson	---	5- 4-60	785	Dr	72	4	43	Oh		43	20	Sh	M			L; Reported Dd 0 ft after 1 hr pumping at 10 gpm
8L1	A. Clodfelter	---	5- 3-60	780	Dr	50	4	38	Oh		38	12	Sh	M			L; A; Reported Dd 0 ft after 1 hr pumping at 12 gpm
9A1	Mr. Valliere	---	---	785	Dr	60	4	80	---		---	---	G	P1			A; Reported Dd 0 ft after pumping at 12 gpm
9F1	A. R. Stevens	Swisher and Swank	---	795	Dr	30	---	30	---		---	---	G	P1			A; Reported Dd 0 ft after 1 hr pumping at 10 gpm
9M1	F. Clark	Molt Bros.	1948	810	Dr	78	4	78	---		---	---	G	P1			Dry hole; Shale 40 to 80 ft
9M2	---	---	---	800	Dr	60	4	45	Oo		40	5	Sh	M			Clay 0 to 40 ft; Reported Dd 0 ft after 1 hr pumping at 10 gpm
9M3	---	---	---	800	Dr	45	4	45	Oo		40	5	Sh	M			Dd 0 ft after 1 hr pumping at 10 gpm
10M1	M. E. Clarkson	---	9-19-59	800	Dr	80	4	80	---		---	---	G	P1			Clay 0 to 37 ft; A; Dd 10 ft after 2 hr pumping at 7 gpm; Screen, 2 ft of 4-in dia, no 40 silt
11J1	Mr. Hodges	---	---	830	Dr	41	4	41	S		37	4	G	P1			Clay 0 to 37 ft; A; Dd 10 ft after 2 hr pumping at 7 gpm; Screen, 2 ft of 4-in dia, no 40 silt
14A1	C. Morrow	---	8-26-60	835	Dr	70	4	---	Oh		50	20	Sh	M			A; Dd 3 ft after 1 hr pumping at 10 gpm
15A1	M. Ellis	---	---	820	Dr	80	4	50	Oh		40	20	Sh	M			L; A; Dd 3 ft after 1 hr pumping at 10 gpm
15C1	L. Glover	Swisher and Swank	4- 2-58	820	Dr	76	4	56	Oh		56	20	Sh	M			Hardpan 0 to 58 ft, A
16D1	D. Coffman	---	---	815	Dr	68	4	68	S		---	---	G	P1			A; Shop screen, 3-in dia, 1/16 in gauze opening
16E1	R. Montar, Jr.	A. Armentrout	2-09	830	Dr	78	4	68	Oh		65	12	Sh?	M			L; Water level 14.1 ft, 10-15-58
17M1	K. Smith	Swisher and Swank	4-24-58	810	Dr	84	4	34	Oh		54	10	Sh	M			L; Water level 14.1 ft, 10-15-58
18J1	---	---	---	820	Dr	80	4	80	Oh		60	20	Sh?	M			A
18M1	L. Morgan	Mr. Morris	---	790	Dr	92	---	---	Oh		---	---	Sh?	M			A; Dd 10 ft after 2 hr pumping at 10 gpm
18R1	D. Caubre	J. Dorsey	11- 4-59	815	Dr	72	4	55	Oh		50	22	Sh	M			L; A
20D1	M. C. Eisea	Swisher and Swank	1957	810	Dr	51	4	53	P		46	2	C	P1			Lam. A
20E2	J. S. Young	---	7- 2-58	800	Dr	32	4	32	---		30	2	C	P1			L; A; Dd 10 ft after 2 hr pumping at 10 gpm
21B1	J. E. Service	Molt Bros.	1848	845	Dr	50	4	---	Oh		45	5	Sh	M			Lam
22K1	J. R. Yount	---	---	835	Dr	60	4	70	Oh		40	20	Sh	M			A
22R1	C. M. Ward	---	---	840	Dr	70	4	70	Oh		---	---	G	P1			A
25M1	J. M. Wiggart	---	---	870	Dr	61	4	61	S		52	8	G	P1			A; Screen, no 60 silt
28A1	L. L. Follows	---	4- 6-61	865	Dr	58	4	58	S		---	---	C	P1			Clay 0 to 62 ft; A; Reported Dd 0 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 silt
26N1	E. C. Mangos	---	12- 5-60	870	Dr	83	4	83	S		81	2	G	P1			L; A; Dd 5 ft after 1 hr pumping at 7 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 silt

Table 4. --Records of wells, Montgomery County, Indiana--Cont.

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land surface (feet)	Diameter (inches)	Depth of casing (feet)	Finish	Water-bearing zone					Yield (gpm)	Water level (feet)	Use	Remarks
										Depth to top (feet)	Thickness (feet)	Material	Geologic age	Ground-water occurrence				
18/SW-2441	R. W. Smith	Swisher and Swank		770	Dr	85	4	47	Oh		80	Sh	M		7	D,S	A	Clay 0 to 30 ft; A; Dd 30 ft after 2 hr pumping at 7 gpm
2441	S. Harris	Molt Bros.	4-11-01	790	Dr	110	4	31	Oh			Sh	M			D,S	A	
268A	R. D. Patton	Swisher and Swank		780	Dr	203	4	31	Oh		172	Sh	M			D	A	Clay 0 to 40 ft; A; Report- ed Dd 0 ft after 2 hr
2692	---do---	Swisher and Swank		775	Dr	174	4	32	Oh			Sh?	M			S	A	pumping at 10 gpm
2701	M. Smith	---do---		785	Dr	113	4	50	Oh		60	Sh	M		10	D,S	A	L; A; Dd 70 ft after 1 hr
29X1	V. Mitchell	Molt Bros.	11-9-59	710	Dr	100	4	50	Oh			Sh	M		6	D,S	A	hauling at 6 gpm
31C1	J. Wilson	W. L. Laughlin	8-28-80	630	Dr	150	8	50	Oh		100	Sh-ls	M	C	33	D,S	A	Clay 0 to 30 ft; A; Dd 2 ft after 2 hr pumping at 5 gpm
31J1	A. E. Rice	A. Armentrout		770	Dr	91	4	44	Oh		47	Sh?	M	U7	5	D	A	Clay 0 to 40 ft; A; Report- ed Dd 0 ft after 4 hr
31J2	---do---	Molt Bros.	8-27-60	770	Dr	50	4	30	Oh		20	Sh	M	U7	34	D	A	pumping at 2.5 gpm
31L1	H. Miles	A. Armentrout	12-13	725	Dr	92	4	34	Oh		28	Sh?	M	U7	48	D	A	Lam. A; Water from shale and limestone contact at 184 ft
32D1	J. Stewart	Molt Bros.	11-10-59	660	Dr	84	4	44	Oh		44	Sh	M	U7	40	D	A	Dry hole; Shale at 14 ft after 1 hr pumping at 7 gpm; Screen, 2 ft of 3 3/4-in dia, no 30 slot
32E1	R. E. Simpors	M. Crabb	6-53	850	Dr	164	4	10	Oh				M	C	4	D	A	L; A; Reported Dd 0 ft after 5 hr pumping at 12 gpm
32H1	J. H. Denson	Molt Bros.	1949	890	Dr	265	4	40	S		2	G	Pl		7	N	A	Rock at 98 ft
33R1	J. Van Cleave	---do---	5-18-60	705	Dr	40	4	40	S							D	A	Rock at 91 ft
34H1	F. Johnson	---do---	8-13-59	785	Dr	113	4	70	Oh		50	Sh	M	C	57	D	A	Rock at 42 ft
34P1	J. H. Benson	A. Armentrout	4-10	780	Dr	82	4	82	Oh				Pl		23	D,S	A	Rock at 60 ft
36H1	P. Barker	Molt Bros.	5-12-61	790	Dr	136	4	110	Oh		26	Sh	M	C	10	D	A	Rock at 89 ft
38J1	R. Hoater	A. Armentrout	1808	785	Dr	100	4	91	Oh		9	Sh?	M	C	25	De	A	Rock at 39 ft
38K1	P. V. Keys	---do---	9-04	800	Dr	118	4	96	Oh		22	Sh	M	C	19	D	A	Rock at 42 ft
38Q1	---do---	---do---	1-11	860	Dr	83	4	87	Oh		4	Sh?	M	C	33	N	A	Screen, no 80 slot
38Q2	---do---	---do---	1-09	800	Dr	83	4	42	Oh		5	Sh?	M	C	12	N	A	
38R1	B. Van Cleave	---do---	5-12	800	Dr	88	4	80	Oh		28	Sh	Pl		20	D,S	A	
38R2	J. H. Armentrout	---do---	1949	770	Dr	84	4	64	S							D,S	A	
18/8W-301	T. E. Hall	Molt Bros.	1948	750	Dr	178	4	140	Oh		7	La	Pl		9	D	A	Shop screen, 3-in dia, 1/16 in gauze opening
341	G. E. Hill	---do---		760	Dr	140	2	48	Oh							D	A	Do
11A1	A. Kanner	F. Branhan	8-3-53	800	Dr	55	4	48	Oh							D	A	Screen, 2 1/2 ft of no 80 slot
12C1	E. Thomas	K. Ilgner and Son	10-28-57	780	Dr	103	4	103	S							D	A	Reported Dd 0 ft after 4 hr pumping at 10 gpm
12C1	B. Pruitt	Swisher and Swank		780	Dr	103	4	103	S							D	A	Lam (partial), A; Water level 2.6 ft, 9-11-59
13A1	T. G. Pettit	---do---		755	Dr	49	4	49	S							D	A	
23R1	L. Pickett	Molt Bros.		820	Dr	57	4	57	S							P	A	
23R2	E. Seiby	---do---	1952	815	Dr	80	4	80	S							D	A	
23R3	K. Smith	F. Branhan	7-31-48	800	Dr	120	4	120	S							D	A	
23R4	A. McCormick	Molt Bros.		810	Dr	42	4	42	S							D	A	
25B1	A. Hutchison	Swisher and Swank	1948	760	Dr	60	4	32	Oh		20	Sh	M	U7	45	D,S	A	
25K1	A. J. Rook	---do---	1958	720	Dr	47	4	47	Oh		16	Sh	M	C	0	D	A	
26B1	C. E. Carlson	F. Branhan	4-48	783	Dr	115	2	115	Oh		31	Sh	Pl		35	D,S	A	
27A1	E. Ellingsood, Jr.	M. Crabb	1929	750	Dr	122	4	90	Oh		20	Sa	Pl		0	D,S	A	
27P1	A. H. Heath	F. Branhan	1929	750	Dr	110	4	90	Oh		20	Sa?	Pl		0	D,S	A	

18/5W-341L	J. Sladok	M. Grabb	9-20-51	750	Dr	60	4	Oh	80	Sh	P7	C	25	D	A: Water from streak of pebbles in shale	
35E1	J. H. White	F. Branham	5-50	810	Dr	180	4	Oh	100	Sh	M	C	10	D,S	A: Dd 9 ft pumping at 10 RPM	
19/3W-101	F. Farnonett	N. Hilger and Son	1947	815	Dr	66	4	Oh	53	LS	X	C	10	D,S	L, A: Dd 9 ft pumping at 10 RPM	
211	A. Anderson	do	6-52	815	Dr	60	2	Oh	40	LS	X	C	15	D,S	L, A: Reported Dd 0 ft after 1 hr pumping at 40 gpm; Harrison Town Supply	
8C1	J. A. Peterson	Holt Bros.	3-51	750	Dr	100	10	Oh	65	LS	X	C	10	D,S	L, A: Reported Dd 0 ft after 1 hr pumping at 10 gpm	
8D1	A. Fiddler	do	7-20-59	760	Dr	70	4	Oh	35	LS	M	C	27	D	L, A: Reported Dd 0 ft after 1 hr pumping at 10 gpm	
8M1	R. Lobe	do	1936	790	Dr	44	4	S, G	---	S, G	PI	C	30	D	L, A: Reported Dd 0 ft after 1 hr pumping at 60 gpm	
13M1	R. Cook	do	1941	835	Dr	32	4	S, G	20	S, G	PI	C	10	D,S	L, A: Reported Dd 0 ft after 1 hr pumping at 10 gpm	
14A1	R. Masten	do	1941	860	Dr	130	4	Oh	70	Sh?	M	C	40	D,S	Dry hole; Rock at 80 ft	
14K1	J. Booker	do	1941	850	Dr	55	4	Oh	45	Sh?	M	C	20	D,S	Reported gag in gravel above rock	
14P1	J. Roberts	do	1944	855	Dr	87	4	Oh	70	Sh?	M	C	40	D,S	L, A: Dd 4 ft after 1 hr pumping at 10 gpm	
16C1	L. D. Budd	do	1944	820	Dr	75	4	Oh	50	Sh?	M	C	35	D,S	L, A: Reported Dd 0 ft after 3 hr pumping at 10 gpm	
18P1	G. O. Smith	do	1930	810	Dr	120	4	Oh	100	Sh?	M	C	70	D,S	L, A: Reported Dd 0 ft after 1 hr pumping at 10 gpm	
19L1	do	do	1948	845	Dr	145	4	Oh	---	G?	PI	C	72	S	Clay and sand 0 to 80 ft; A: Screen, no 00 snot	
20J1	M. H. McClanky	do	1946	860	Dr	200	4	Oh	---	---	---	C	19	D,S	Clay 0 to 34 ft; A: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 snot	
21P1	F. Pickering	do	1941	850	Dr	151	4	Oh	148	Sh?	M	C	20	D,S	Clay and sand 0 to 80 ft; A: Screen, no 00 snot	
21P2	do	do	1941	850	Dr	75	4	Oh	65	Sh?	M	C	20	D,S	Clay and sand 0 to 80 ft; A: Screen, no 00 snot	
25P1	A. Custer	do	1938	840	Dr	75	4	Oh	45	Sh?	M	C	7	D,S	Clay and sand 0 to 80 ft; A: Screen, no 00 snot	
27J1	C. Wiley	do	7-1-60	850	Dr	66	4	Oh	47	LS	X	C	25	D	Clay and sand 0 to 80 ft; A: Screen, no 00 snot	
33J1	K. Heinback	do	1945	825	Dr	81	4	Oh	50	LS?	M	C	24	S	Clay and sand 0 to 80 ft; A: Screen, no 00 snot	
33K1	Indiana State Highway Department	do	8-58	820	Dr	90	4	Oh	70	LS?	M	C	10	P	Clay and sand 0 to 80 ft; A: Screen, no 00 snot	
19/4W-151	L. Hoyle	N. Hilger and Son	1936	785	Dr	72	2	Oh	60	LS	M	C	31	D,S	Clay and sand 0 to 80 ft; A: Screen, no 00 snot	
151	J. Cassida	Holt Bros.	1935	790	Dr	35	4	Oh	---	G	PI	C	15	D,S	Clay 0 to 34 ft; A: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 snot	
4K1	C. E. Hudson	do	1940	700	Dr	80	4	Oh	60	G	PI	C	30	D,S	Clay 0 to 34 ft; A: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 snot	
4M1	D. Hughes	do	11-21-59	790	Dr	38	4	Oh	34	G	PI	C	19	S	Clay 0 to 34 ft; A: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 snot	
5D1	R. W. Kober	F. Branham	---	800	Dr	150	4	Oh	100	LS	M	C	10	D,S	Clay 0 to 34 ft; A: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 snot	
7J1	T. Shirley	Holt Bros.	1948	765	Dr	111	4	Oh	100	LS	M	C	10	D,S	Clay 0 to 34 ft; A: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 snot	
9P1	G. D. Bradley	do	1938	790	Dr	60	4	Oh	---	G	PI	C	30	D,S	Clay 0 to 34 ft; A: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 snot	
10L1	J. S. Ward	do	---	790	Dr	75	4	Oh	---	G	PI	C	35	S	Clay 0 to 34 ft; A: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 snot	
12D1	J. Booker	do	6-3-55	785	Dr	55	2	Oh	48	LS	M	C	23	N	L	Clay 0 to 34 ft; A: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 snot
12F1	H. Deck	Swisher and Sank	1957	770	Dr	51	4	Oh	47	G	PI	C	12	D,S	Clay 0 to 34 ft; A: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 snot	
14B1	L. Layson	Holt Bros.	5-16-61	710	Dr	63	4	Oh	42	Sh	M	C	5	D	Clay 0 to 34 ft; A: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 snot	
14W1	C. Hinathorpe	do	4-20-60	700	Dr	35	4	Oh	18	Sh	M	C	10	D	Clay 0 to 34 ft; A: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 snot	
15Q1	M. E. Thompson	do	1936	775	Dr	148	4	Oh	90	Sh	M	C	80	D,S	Clay 0 to 34 ft; A: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 snot	
15R1	H. Record	do	1946	770	Dr	105	4	Oh	80	Sh	M	C	70	D,S	Clay 0 to 34 ft; A: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 snot	
16V1	G. Harper	do	7-12-60	755	Dr	58	4	Oh	37	G	PI	C	37	D	Clay 0 to 34 ft; A: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 snot	
16J2	Keller Construction	do	4-20-61	745	Dr	54	4	Oh	54	G	PI	C	32	D	Clay 0 to 34 ft; A: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 snot	
17L1	D. Knapp	do	1947	755	Dr	33	4	Oh	---	G	PI	C	15	N	L	Clay 0 to 34 ft; A: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 snot
17M1	F. Rose	do	1940	760	Dr	64	4	Oh	50	Sh	N	C	18	N	L	Clay 0 to 34 ft; A: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 snot
18M1	T. Agnew	do	1940	750	Dr	40	4	Oh	---	G	PI	C	18	N	L	Clay 0 to 34 ft; A: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 snot
18Q1	E. Todd	do	7-14-60	770	Dr	48	4	Oh	30	Sh	M	C	18	D	Clay 0 to 34 ft; A: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 snot	
19R1	do	do	10-17-60	770	Dr	53	4	Oh	40	Sh	M	C	27	D	Clay 0 to 34 ft; A: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 snot	
19R2	do	do	12-3-59	770	Dr	50	4	Oh	31	Sh	M	C	26	D	Clay 0 to 34 ft; A: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 snot	

Table 4.--Records of wells, Montgomery County, Indiana--Cont.

Well No.	Owner	Driller	Data completed	Altitude (feet)	Type of well	Depth of well below land surface (feet)	Diameter (inches)	Depth of casing (feet)	Finish	Water-bearing zone					Yield (gpm)	Remarks		
										Depth to top (feet)	Thickness (feet)	Material	Geologic age	Ground-water occurrence			Water level (feet)	
19/4w-1983	E. Todd	Holt Bros.	1-13-60	770	Dr	59	4	43	Oh	40	19	Sh	M	C	32	10	D	La; Reported Dd 0 ft after 1 hr pumping at 10 gpm
1984	---do---	---	7-59	770	Dr	49	4	28	Oh	26	23	Sh	M	C	24	10	D	Do
1985	---do---	---	5-15-61	770	Dr	50	4 1/2	30	Oh	30	23	Sh	M	C	18	10	D	L; Reported Dd 0 ft after pumping at 10 gpm
2061	C. E. Jolley	Swisher and Swank	1957	750	Dr	63	4	37	Oh	37	26	Sh	M	---	39	---	D	Lam, A
2081	J. McCollen	---	5-4-57	750	Dr	60	4	37	Oh	---	---	---	M	---	---	---	D	A
2341	M. Endicott	Holt Bros.	1949	770	Dr	45	4	---	Oh	20	25	Sh	M	C	7	---	D,S	A
2441	R. S. Harpor	---	1936	800	Dr	90?	4	---	Oh	70	20	Sh	M	C	30	---	D,S	A
2561	J. B. Campbell	---	1947	785	Dr	106	4	---	Oh	60?	26	Sh	M	C	30	---	D,S	A
2561	C. W. Hinds	---	---	810	Dr	32	4	32	---	---	---	---	Pl	C	45	---	D,S	A
2711	O. L. Gracelius	---	1948	785	Dr	82	4	---	Oh	48	33	Sh	M	C	45	---	D,S	A
2861	W. Redwood	---	1944	760	Dr	75	4	75	Oh	60	15	Sh	M	C	30	---	D	L, A; Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot
2881	P. Stevenson	---	8-18-59	760	Dr	75	4	75	S	61	14	G	Pl	U	61	10	D	L, A; Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot
2882	E. Elliott	---	8-30-60	775	Dr	89	4	85	S	70	15	G	Pl	U	70	10	D	L, A; Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot
3041	J. B. Miller	---	---	770	Dr	69	4	---	Oh	34	35	Sh	M	C	17	---	D	Clay 0 to 22 ft; Reported Dd 0 ft after 1 hr pumping at 10 gpm
3042	Mr. Gueter	---	10-6-60	785	Dr	55	4	28	Oh	22	33	Sh	M	C	21	10	D	Clay 0 to 41 ft; A; Dd 5 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot
3061	Hygrade Corp.	---	4-18-61	750	Dr	46	4	46	S	41	5	G	Pl	C	18	10	S	Reported Dd 0 ft after 1 hr pumping at 10 gpm
3031	B. Thompson	---	3-30-60	715	Dr	30	4	10	Oh	6	24	Sh	M	C	5	10	D	A; Reported Dd 0 ft after 1 hr pumping at 10 gpm
3032	V. Phillips	---	3-30-60	705	Dr	32	4	10	Oh	6	26	Sh	M	C	3	10	D	Pumped dry at 50 gpm
3161	Sam Harris Packing Co.	---	1937	870	Dr	58	10	58	Oh	---	---	---	Pl	C	15	---	N	L; Dd 12 ft after 6 hr pumping at 325 gpm; Screen, 20 ft of 9 1/2-in dia, 10 ft no. 40 slot, Water level 17.3 ft, 6-30-53
3162	---	---	1937	870	Dr	938	---	---	---	---	---	---	---	---	---	---	---	---
3161	Coca-Cola Bottling Co.	---	8-10-60	870	Dr	63	10	01	S	23	40	S,G	Pl	U	23	325	I	Shale at 80 ft
3162	---	---	1937	870	Dr	71	6	71	---	---	---	---	Pl	---	---	---	N	Water level 17.3 ft, 6-30-53
3183	---	---	---	870	Dr	100	10	---	---	---	---	---	Pl	---	---	---	N	Shale at 80 ft
3161	---	---	---	870	Dr	80	8	80	---	80	20	Sh	M	---	---	---	N	Water level 17.3 ft, 6-30-53
3271	Crawfordsville Electric Light and Power Co.	---	1947	670	Dr	61	10	61	B	---	---	---	Pl	C	+15	200	I	Shale at 80 ft
3272	---	---	1947	870	Dr	51	10	51	S	---	---	---	Pl	C	+6	200	I	Shale at 80 ft
3261	Indiana Gas and Water Co., Inc.	H. R. Lamb	5-4-34	880	Dr	67	15	67	S	42	25	G,S	Pl	---	---	---	Do	Water level 17.3 ft, 6-30-53
3262	---	---	12-15-36	710	Dr	48	10	48	Oh	---	---	---	Pl	---	---	---	N	Water level 17.3 ft, 6-30-53
3263	---	---	12-15-36	710	Dr	48	10	48	Oh	36	12	S,C	Pl	---	---	---	N	Water level 17.3 ft, 6-30-53
3264	---	---	1-20-41	690	Dr	82	---	82	---	55	18	S,C	Pl	C	+2	---	L	Water level 17.3 ft, 6-30-53
3265	---	---	9-4-41	700	Dr	84	16	---	---	31	43	S,C	Pl	C	+15	---	P	Water level 17.3 ft, 6-30-53
3266	---	---	9-6-44	700	Dr	84	6	84	---	31	43	S,C	Pl	C	---	---	T	Water level 17.3 ft, 6-30-53
3267	---	---	4-28-53	700	Dr	71	6	---	---	30	41	S,G	Pl	C	+2	---	T	Water level 17.3 ft, 6-30-53

19/4W-32LB	---do---	---do---	7- 9-55	700	Dr	70	38 16	50 70	Gp	30	40	S,G	Pl	C	F	1,000	P	L
32L9	---do---	R. R. Lamb	9-15-44	690	Dr	78	6	---	---	44	12	S,G	Pl	C	F	---	T	L: Dd 30 ft after 8 hr pump- ing at 1,025 gpm; Screen, 20 ft of 16-in dia, no 5 shutter
32L10	---do---	Layne-Northern Co., Inc.	4-28-53	700	Dr	90	8	---	---	57	22	S,G	Pl	C	F	---	T	La
32L11	---do---	---	4-28-53	700	Dr	92	8	---	---	57	20	S,G	Pl	C	F	---	T	La
32L12	---do---	---	5-23-53	700	Dr	77	10	77	S	57	20	S,G	Pl	C	F	608	P	La; Dd 43 ft pumping at 608 gpm; Screen, 20 ft of 12-in dia, no 5 shutter
32L13	---do---	W. R. Lamb	8-15-44	686	Dr	73	5	45	00	30	20	S,G	Pl	C	F	---	O	L: Observation well Mont- gomery 5; W
32M1	Farmers Produce Associ- ation	Layne-Northern Co., Inc.	8-20-44	750	Dr	113	10	113	S	108	5	G	Pl	C	49	130	I	La
32M2	---	---	8-20-44	750	Dr	144	---	---	---	53	19	S,G	Pl	C	32	---	T	L: Dd 46 ft pumping at 138 gpm; Screen, 15 ft of no 6 shutter; Well pulled back and plugged at 114 ft
32M3	---	---	1-12-45	750	Dr	151	12	114	Gp	96	47	S,G	Pl	C	62	138	I	L: Screen, 10 ft of no 40 slot
32M4	Hoester Crown Corp.	Molt Bros.	1950	730	Dr	87	21	87	0r	---	---	G	Pl	C	10	30	N	L: Screen, no 60 slot
32N1	Maplehurst Dairy	---	5- 1-52	765	Dr	122	6	122	S	113	5	G	Pl	C	49	100	I	La
32N2	Producers Dairy Products Inc.	---	1938	765	Dr	178	8	---	Ch	148	30	Sh	M	C	55	60	I	A
32N3	Goodmans Department Store	---	1942	765	Dr	155	6	155	S	---	---	G	Pl	---	---	50	A	L: Screen, no 80 slot
32P1	Bon Nur Life Association	---	1941	705	Dr	185	8	---	Ch	150	35	La	M	C	---	60	A	L: Screen, no 80 slot
32F1	H. Greene	---	1949	755	Dr	60	4	69	\$	---	---	G	Pl	C	35	---	D,S	L: Screen, no 80 slot
32J1	Crawfordsville Drive-In Theater	---	---	755	Dr	56	4	56	---	---	---	G	Pl	---	---	18	P	L: Screen, no 80 slot
32M1	R. Rhoades	---	---	750	Dr	65	3	85	---	---	---	G	Pl	C	35	---	X	L: Screen, no 80 slot
32M2	Raybestos Manhattan, Inc.	---	---	750	Dr	168	3	168	---	---	---	G	Pl	C	50	---	X	L: Screen, no 80 slot
32M3	---	Molt Bros.	1950	750	Dr	168	8	108	---	---	---	G	Pl	C	---	---	I	L: Dd 0 ft after 1 hr pump- ing at 7 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot
32R1	K. Sonman	---	9-13-60	790	Dr	105	4	105	S	100	5	G	Pl	C	66	7	D	L: Screen, no 80 slot
32R2	Randolph Builders	---	9-12-60	800	Dr	70	4	70	S	60	10	G	Pl	U	60	10	D	L: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot
32R3	D. Spear	---	6-30-60	800	Dr	78	4	78	S	68	10	G	Pl	U	69	10	D	L: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot
32R4	Mr. Spears	---	6-29-60	800	Dr	78	4	78	S	64	14	G	Pl	U	64	10	D	L: Screen, 2 ft of 4-in dia, no 40 slot
34D1	D. Hayes	---	10-24-60	725	Dr	42	4	42	S	35	7	G	Pl	C	32	10	D	L: Screen, 2 ft of 3 3/4- in dia, no 40 slot
34D2	A. Kriger	---	12-19-60	740	Dr	42	4	42	S	35	7	G	Pl	U	33	10	D	L: Reported Dd 0 ft after 2 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot
34D3	R. Dawson, Jr.	---	5-17-61	700	Dr	32	4	32	S	24	8	G	Pl	U	24	10	D	L: Screen, 2 ft of 3 3/4- in dia, no 40 slot
34E1	R. Edwards	---	3- 5-61	760	Dr	71	4	71	S	85	6	G	Pl	U	65	10	D	L: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot
34E2	Union Savings and Loan	---	11-11-60	760	Dr	70	4	70	S	80	10	G	Pl	U	60	10	D	L: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot
34E3	D. Maxwell	---	7-26-60	760	Dr	70	4	70	S	58	12	G	Pl	U	58	10	D	L: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot
34E4	L. Nichols	---	7-23-60	765	Dr	53	4	53	S	42	11	G	Pl	U	42	---	D	L: Screen, 2 ft of 3 3/4- in dia, no 40 slot
34E5	G. Hooster	---	1960	765	Dr	53	4	53	S	45	8	G	Pl	C	39	10	D	L: Screen, 2 ft of 3 3/4- in dia, no 40 slot
34E6	R. Dawson, Jr.	---	3-24-61	760	Dr	65	4	65	S	60	5	G	Pl	U	60	10	D	L: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot
34E7	J. D. Salth	---	7-20-60	760	Dr	67	4	67	S	60	7	G	Pl	U	60	10	D	L: Screen, 2 ft of 3 3/4- in dia, no 40 slot
34E8	J. Woodard	---	7-21-60	705	Dr	59	4	59	S	43	16	G	Pl	U	43	10	D	L: Reported Dd 0 ft after 1 hr pumping at 10 gpm; Screen, 2 ft of 3 3/4-in dia, no 40 slot
34E9	J. H. Jackson	---	6- 1-60	705	Dr	54	4	54	S	40	14	G	Pl	C	39	10	D	L: Screen, 2 ft of 3 3/4- in dia, no 40 slot

Table 4.--Records of wells, Montgomery County, Indiana--Cont.

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land surface (feet)	Diameter (inches)	Depth of casing (feet)	Finish	Water-bearing zone					Yield (gpm)	Use	Remarks
										Depth to top (feet)	Thickness (feet)	Material	Geologic age	Ground-water occurrence			
34E10	C. Florey	Holt Bros	11-9-60	765	Dr	53	4	53	S	40	13	G	P1	U	40	D	L: Reported Dd 0 ft after 1 hr pumping at 10 gpm. Screen, 2 ft of 3 3/4-in dia, no 40 slot L, A: Reported Dd 0 ft after 1 hr pumping at 10 gpm. Screen, 2 ft of 3 3/4-in dia, no 40 slot
34E11	D. Harwood	-----do-----	10-22-60	760	Dr	113	4	115	S	113	2	G	P1	C	42	D	L: Reported Dd 0 ft after 1 hr pumping at 10 gpm. Screen, 2 ft of 3 3/4-in dia, no 40 slot
34E12	D. Clark	-----do-----	3-27-61	760	Dr	111	4	111	S	108	5	G	P1	C	38	D	L: Reported Dd 0 ft after 1 hr pumping at 10 gpm. Screen, 2 ft of 3 3/4-in dia, no 40 slot
34E13	R. Thompson	-----do-----	11-7-60	760	Dr	97	4	97	S	94	3	G	P1	C	50	D	L: Reported Dd 0 ft after 1 hr pumping at 10 gpm. Screen, 2 ft of 3 3/4-in dia, no 40 slot
34E14	-----do-----	Swisher and Swank	1957	760	Dr	60	4	60	S	55	4	G	P1	---	---	N	L: Reported Dd 0 ft after 1 hr pumping at 10 gpm. Screen, 2 ft of 3 3/4-in dia, no 40 slot
34E15	L. Thompson	Holt Bros.	5-1-61	760	Dr	115	4	115	S	110	5	G	P1	C	40	D	L: Reported Dd 0 ft after 1 hr pumping at 10 gpm. Screen, 2 ft of 3 3/4-in dia, no 40 slot
34J1	F. Buesenbark	-----do-----	9-12-59	780	Dr	45	4	45	S	37	8	G	P1	C	35	D	L: Reported Dd 0 ft after 1 hr pumping at 10 gpm. Screen, 2 ft of 3 3/4-in dia, no 40 slot
34J2	J. Bundy	Swisher and Swank	1938	780	Dr	109	4	109	S	106	3	S, G	P1	---	---	D	L: Reported Dd 0 ft after 1 hr pumping at 10 gpm. Screen, 2 ft of 3 3/4-in dia, no 40 slot
34J3	H. C. Broadstreet	A. Monbrake	8-15-45	785	Dr	48	2	48	S	48	2	S, G	P1	---	---	D	L: Reported Dd 0 ft after 1 hr pumping at 10 gpm. Screen, 2 ft of 3 3/4-in dia, no 40 slot
34K1	C. Corbett	Swisher and Swank	11-17-58	730	Dr	77	4	77	S	70	7	G	P1	U	70	D	L: Reported Dd 0 ft after 1 hr pumping at 10 gpm. Screen, 2 ft of 3 3/4-in dia, no 40 slot
34L1	Mr. Pattison	-----do-----	-----	730	Dr	43	-----	43	-----	-----	-----	-----	-----	-----	-----	-----	-----
34M1	E. Losturs	Holt Bros.	3-8-61	785	Dr	78	4	78	S	72	8	G	P1	C	42	D	L: Reported Dd 0 ft after 1 hr pumping at 10 gpm. Screen, 2 ft of 3 3/4-in dia, no 40 slot
34N1	J. Rodman	-----do-----	2-20-60	800	Dr	113	4	113	S	109	4	G	P1	C	95	D	L: Reported Dd 0 ft after 1 hr pumping at 10 gpm. Screen, 2 ft of 3 3/4-in dia, no 40 slot
34N2	Randolph Builders, Inc.	-----do-----	1-12-60	800	Dr	71	4	71	S	62	9	G	P1	U	82	D	L: Reported Dd 0 ft after 1 hr pumping at 10 gpm. Screen, 2 ft of 3 3/4-in dia, no 40 slot
34N3	R. Wilson	-----do-----	8-23-60	800	Dr	110	4	110	S	100	10	G	P1	C	80	D	L: Reported Dd 0 ft after 1 hr pumping at 10 gpm. Screen, 2 ft of 3 3/4-in dia, no 40 slot
34N4	L. Koptner	-----do-----	6-13-60	800	Dr	105	4	105	S	100	5	G	P1	C	70	D	L: Reported Dd 0 ft after 1 hr pumping at 10 gpm. Screen, 2 ft of 3 3/4-in dia, no 40 slot
34N5	Randolph Builders, Inc.	-----do-----	8-9-58	800	Dr	110	4	110	S	100	10	G	P1	C	60	D	L: Reported Dd 0 ft after 1 hr pumping at 10 gpm. Screen, 2 ft of 3 3/4-in dia, no 40 slot
36N6	Mr. Quating	-----do-----	8-6-59	795	Dr	103	4	103	S	95	8	G	P1	C	67	D	L: Reported Dd 0 ft after 1 hr pumping at 12 gpm. Screen, 2 ft of 3 3/4-in dia, no 40 slot

Table 4.--Records of wells Montgomery County, Indiana--Cont.

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter (inches)	Depth of casing (feet)	Plumb	Depth to top (feet)	Water-bearing zone				Water level (feet)	Yield (gpm)	Dno	Remarks
											Thickness (feet)	Material	Geologic age	Ground-water occurrence				
19/SW-26L1	K. Thomas	Swisher and Swank		700	Dr	68	4	88	S									Shop screen, 3-in dia, 1/18 in gauze opening at 45 ft; Dd 10 ft pumping at 7 gpm; Shop screen, 3-in dia, 1/8 in gauze opening at 30 gpm; Dd 4 ft balling at 30 gpm; L: Water at clay and shale contact at 127 ft; Reported Dd 0 ft after 1 hr pumping at 10 gpm
27R1	J. Services	do	1056	730	Dr	85	4	85	S									A: Dd 10 ft pumping at 7 gpm; Shop screen, 3-in dia, 1/8 in gauze opening at 30 gpm; L: Dd 4 ft balling at 30 gpm
28A1	L. Layne	Holt Bros.	9-18-59	750	Dr	75	4		Oh	41								L: Dd 4 ft balling at 30 gpm
28B1	J. Murphy	do	8-8-59	780	Dr	127	4	127	Oh	127								L: Water at clay and shale contact at 127 ft; Reported Dd 0 ft after 1 hr pumping at 10 gpm
29P1	T. A. Parish	do	1949	730	Dr	31	4	31										A: Screen, 4 ft, no 40 slot
30R1	M. L. Schenck	do	1943	765	Dr	70	4		Oh	55								A: Screen, 4 ft, no 40 slot
31G1	D. W. Barnot	do	1948	785	Dr	75	4		Oh	60								A: Screen, 4 ft, no 40 slot
31J1	J. Henry	do	1949	790	Dr	135	4	135	S									A: Screen, 4 ft, no 40 slot
31R1	G. E. Larow	do		780	Dr	120	4	120	S									A: Screen, 4 ft, no 40 slot
32A1	E. E. Cox	G. N. Bench		770	Dr	85	4	85	S									A: Screen, 4 ft, no 40 slot
32B1	do	do		880	Dr	55	4	55	Oh									A: Screen, 4 ft, no 40 slot
34A1	R. Smith	Holt Bros.	1943	880	Dr	75	4	75	Oh									A: Screen, 4 ft, no 40 slot
34A2	P. Handricks	Holt Bros.	7-25-59	690	Dr	40	4	40	S	26								A: Screen, 4 ft, no 40 slot
35A1	E. Henderson	do	1942	760	Dr	63	4		Oh	45								A: Screen, 4 ft, no 40 slot
36B1	J. Phillips	Swisher and Swank	1056	795	Dr	50	4	28	Oh	28								A: Screen, 4 ft, no 40 slot
36B2	R. Thomas	Holt Bros.	3-9-01	790	Dr	85	4	85	Oh	63								A: Screen, 4 ft, no 40 slot
19/GW-181	C. Thomas	Swisher and Swank	1949	785	Dr	70	4	70	Oh									A: Screen, 4 ft, no 40 slot
202	H. Hushroys	do	1954	820	Dr	67	4	67	S									A: Screen, 4 ft, no 40 slot
202	W. Blackford	do	11-18-54	820	Dr	110	4	92	Oh									A: Screen, 4 ft, no 40 slot
2E1	E. Kesp	F. Branhan	3-25-58	785	Dr	125	4	38	Oh	38								A: Screen, 4 ft, no 40 slot
11G1	T. Hudson	Swisher and Swank	3-25-58	785	Dr	38	4	38	S									A: Screen, 4 ft, no 40 slot
11P1	C. Wilkison	Holt Bros.	1947	790	Dr	80	4		Oh	70								A: Screen, 4 ft, no 40 slot
12H1	H. L. Cenner	do	1958	765	Dr	65	4		Oh									A: Screen, 4 ft, no 40 slot
13H1	V. Soards	do	1947	780	Dr	90	4	72	Oh	60								A: Screen, 4 ft, no 40 slot
13N1	P. Rhoades	do	1-12-61	780	Dr	99	4	72	Oh	67								A: Screen, 4 ft, no 40 slot
13W2	D. Miller and I. Strinley	do	8-18-60	780	Dr	102	4	76	Oh	73								A: Screen, 4 ft, no 40 slot
14D1	Mr. Rusk	do	8-28-59	760	Dr	68	4	45	Oh	43								A: Screen, 4 ft, no 40 slot
14L1	Town of Waynetown	do	7-50	735	Dr	184	10	100	S	51								A: Screen, 4 ft, no 40 slot
15L1	D. P. Rush	do	1947	745	Dr	94	4	94	S									A: Screen, 4 ft, no 40 slot
15N1	H. I. Starnes	Swisher and Swank	11-13-56	730	Dr	110	4	82	Oh									A: Screen, 4 ft, no 40 slot
24C1	H. Leck	do	775	775	Dr	72	4	64	Oh									A: Screen, 4 ft, no 40 slot
25P1	C. Gray	Holt Bros.	1949	785	Dr	54	4		Oh	30								A: Screen, 4 ft, no 40 slot
25M1	D. Moore	Swisher and Swank	10-30-57	775	Dr	40	4	35	Oh	35								A: Screen, 4 ft, no 40 slot

Well No.	Owner	Location	Drill Date	Depth (ft)	Drill Type	Drill Bit	Drill Size	Drill Length	Drill Material	Drill Notes	Drill Status
27M1	T. I. Livingwood		11-17-54	760	Dr						
34P1	C. Work		1947	765	Dr						
35J1	F. Branham		1948	785	Dr						
35R1	J. Mullin		1948	790	Dr						
35R2			9-12-80	825	Dr						
20/3W-131	P. Boots			84							
1K1			4-14-80	825	Dr						
5C1	I. C. Elston, Jr		1944	800	Dr						
5D1			1944	800	Dr						
5K1			1944	805	Dr						
5P1			1847	800	Dr						
			1855	105							
7G1	R. W. Sebans			810	Dr						
8B1	L. M. Mitchell		1939	800	Dr						
10B1	J. W. Irwin		1941	800	Dr						
10C1	J. Gilmore		1945	800	Dr						
11J1	W. D. Cook		4-5-58	59							
12H1	L. Maugh		1940	820	Dr						
18P1	W. Anderson		1948	800	Dr						
19K1	W. Tribbett		6-3-01	785	Dr						
				36							
22A1	M. Anderson		1948	800	Dr						
22D1	P. Anderson			70							
22L1	W. Dykon		3-17-56	810	Dr						
				68							
22R1	Bowers School		1928	810	Dr						
23K1	W. Keyes		1949	820	Dr						
24K1	M. A. Clouser		1937	820	Dr						
24P1	L. Maugh			66							
25H1	L. and W. Wallin		9-2-59	820	Dr						
				58							
26C1	R. Young		12-23-57	810	Dr						
31F1	C. Rhoads		1920	785	Dr						
32H1	R. Anderson		1945	800	Dr						
32H2			1940	800	Dr						
35H1	R. McCallister		1-17-61	805	Dr						
				74							
35Q1	E. Anderson		5-12-60	805	Dr						
				64							
20/4W-1E1	J. De Planaty		1946	800	Dr						
11J	W. Murdock		1949	800	Dr						
11Z	Nickpatrick Grain Elevator		5-26-61	800	Dr						
				68							
5E1	R. C. Todd			770	Dr						
5R1	R. E. Bonifoo		1943	790	Dr						
5R2			1949	770	Dr						
6P1	T. Wilkins		1949	770	Dr						
6R1	Tom of London		1041	790	Dr						
6A1	J. Raibstone		5-29-61	790	Dr						
				44							
10B1	M. Dovere		1049	800	Dr						
10F1			1944	810	Dr						
10F2			1944	810	Dr						
11Q1	J. K. Johnston		1940	800	Dr						
16C1	G. M. Carlson		1940	800	Dr						
17D1	F. Neuster		1937	790	Dr						
17K1	D. H. Danlike		1949	810	Dr						
17M1	G. Martin		1946	800	Dr						
17N1				36							
17S2	G. N. Bunch		1939	800	Dr						

20/SW- J0C1	C. Mitchol	Swisher and Swank	1955	830	Dr	75	4	75	5	---	G	Pl	C	45	D	A: Shop screen, 3-in dia, 1/10 in gauze opening
31A1	E. Kennedy	A. Bonabrake	10-12-45	835	Dr	129	---	118	Ch	114	15 Sh?	M	C	46	---	Rock at 114 ft
31H1	A. Morrell	---	8-11-45	838	Dr	113	---	107	Ch	107	10 Sh?	N	C	42	---	Rock at 107 ft
31H2	W. Fitzwater	---	8-25-45	838	Dr	114	---	102	Ch	102	12 Sh?	N	C	35	---	Rock at 102 ft
31J1	J. W. Chock	---	6-21-45	823	Dr	120	---	105	Ch	105	12 Sh?	N	C	34	---	Ls, A
31J2	T. Olin	---	7-17-46	820	Dr	144	---	105	Ch	104	10	N	C	33	---	Rock at 104 ft
31K1	O. Summers	Molt Bros.	1943	820	Dr	140	4	80	Ch	---	6	Pl	C	30	---	A
32E1	R. Merrill	A. Bonabrake	9-17-45	823	Dr	110	---	104	Ch	104	5 Sh?	N	C	39	---	Rock at 104 ft
32M1	Eladalo Church	---	6-48	820	Dr	108	4	104	Ch	103	11 Sh?	N	C	34	---	A: Rock at 103 ft
33P1	Mr. Hissas	---	8-17-45	840	Dr	120	---	89	Ch	80	55	N	C	36	---	A: Rock at 89 ft
34L1	L. Olin	Holt Bros.	1949	843	Dr	125	4	70	S	---	30	Pl	C	25	---	A: Screen, no 40 slot
35D1	F. Patton	---	1956	840	Dr	173	4	---	Ch	120	17 Sh	N	C	30	---	A
36F1	V. Melo	---	1950	840	Dr	150	4	---	Ch	120	17 Sh	N	C	30	---	A
36M1	F. MacCliff	---	1939	830	Dr	111	4	---	Ch	66	88	Pl	C	15	---	L, A
20/9W- 1K1	Coal Creek Township School	---	7-53	780	Dr	184	6	184	---	---	---	Pl	---	---	---	L, A
2L1	J. R. McCorkle	---	1093	745	Dr	133	4	---	---	---	Sh	M	---	---	---	A
2R1	R. Moharry	---	1942	750	Dr	153	4	63	---	---	12	Pl	C	30	---	A
14N1	Lodge Hall	---	1950	780	Dr	121	4	---	Ch	110	11 Sh	N	C	24	---	A
14N2	Switzer's Grocery Store	---	---	780	Dr	132	4	---	Ch	100	33 Sh?	N	C	33	---	A
15J1	Town of Wingate	---	6-10-52	770	Dr	136	10	80	Ch	78	58 Sd-sh	N	C	20	480	L; Dd 15.5 ft after 8 hr pumping at 250 gpm
23B1	H. Curtis	---	1950	790	Dr	77	4	---	Ch	70	7 Sh	M	C	9	---	A
23D1	G. S. Rochlosberger	A. Bonabrake	8-2-48	773	Dr	111	---	107	Ch	101	8	M	C	20	---	Rock at 103 ft
23D2	H. W. Crane	---	8-10-48	773	Dr	113	---	113	Co	113	---	M	C	30	---	Rock at 110 ft
24P1	H. Wilson	Molt Bros.	6-30	810	Dr	162	4	82	S	---	20	Pl	C	30	---	A: Shale at 90 ft
25H1	D. Grenard	---	1948	810	Dr	110	4	---	Ch	100	10 Sh	N	C	20	---	A
34E1	Mr. Hatpol	---	---	770	Dr	33	4	55	---	---	---	Pl	---	---	---	A

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

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

Well 17/3W-1L1

Type of record: Driller's log. Altitude: About 915 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	12	12	W. B.
Sand-----	18	30	
Clay-----	23	53	
Sand-----	23	76	
Mississippian System:			
Osage Series:			
Limestone-----	1	77	

Well 17/3W-6M1

Type of record: Driller's log. Altitude: About 835 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Silt, sandy, with trace of clay--	13.5	13.5	
Hardpan-----	6	19.5	
Silt, sandy, firm-----	5	24.5	
Hardpan-----	21.5	46	

Well 17/3W-16R1

Type of record: Driller's log. Altitude: About 885 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Top soil-----	5	5	
Sand and mud-----	45	50	
Mud and gravel-----	43	93	
Mississippian System:			
Osage Series:			
Shale, gray-----	32	125	T. D. 784 ft
Sandstone, hard-----	8	133	
Shale, gray-----	15	148	
Shale-----	78	226	
Limestone-----	7	233	
Shale-----	4	237	

Well 17/3W-18H1

Type of record: Driller's log. Altitude: About 835 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Top soil-----	1	1	W. B.
Clay, yellow-----	17	18	
Hardpan-----	1	19	
Sand-----	1	20	

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 17/3W-18H1--Cont.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Hardpan, brown-----	10	30	
Clay, blue-----	10	40	
Mississippian System:			
Osage Series:			
Shale, blue-----	12	52	
Shale-----	33	85	W. B. 52 to 60 ft and 67 to 85 ft
Shale, blue-----	108	193	W. B. 85 to 140 ft

Well 17/3W-18H2

Type of record: Driller's log.

Altitude: About 835 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Top soil-----	2	2	
Clay, gritty, brown-----	10	12	
Sand and gravel, muddy-----	3	15	
Clay, sandy, brown-----	14	29	
Mississippian System:			
Osage Series:			
Shale, gummy, gray-----	4	33	
Shale, hard and soft strips, gray-----	71	104	W. B.

Well 17/4W-16C1

Type of record: Driller's log.

Altitude: About 840 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Surface and clay-----	42	42	
Mississippian System:			
Osage Series:			
Shale, soft, brown-----	9	51	
Shale, hard, brittle, blue-gray--	1	52	W. B.

Well 17/4W-19Q1

Type of record: Driller's log.

Altitude: About 850 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay and hardpan-----	60	60	
Gravel, muddy-----	1	61	
Clay and hardpan-----	31	92	
Gravel, gray-----	9	101	W. B.

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 17/4W-26D1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	60	60	
Sand and wood-----	12	72	
Mississippian System:			
Osage Series:			
Shale-----	18	90	W. B. 82 to 90 ft

Well 17/5W-1A4

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Top soil and clay-----	5	5	
Clay, yellow-----	5	10	
Clay, sandy, blue-----	30	40	
Mississippian System:			
Osage Series:			
Sandstone, yellow-----	4	44	
Sandstone, gray-----	96	140	W. B.

Well 17/5W-19F1

Type of record: Driller's log. Altitude: About 796 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	8	8	
Sand, yellow-----	8	16	
Mississippian System:			
Osage Series:			
Limestone, blue-----	24	40	W. B. 20 to 21 ft
Shale, gray-----	3	43	
Limestone, gray-----	17	60	
Shale, gray-----	2	62	
Limestone, gray-----	25	87	
Shale, gray-----	3	90	
Shale, muddy, blue-----	10	100	
Shale, gray-----	54	154	
Shale, sandy, gray-----	116	270	
Sandstone, blue-----	50	320	
Shale, sandy, blue-----	50	370	
Limestone, hard, gray-----	5	375	T. D. 2,315 ft

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 17/5W-21E1

Type of record: Driller's log.

Altitude: About 810 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	30	30	
Sand-----	1	31	
Clay, sandy-----	50	81	
Clay-----	30	111	
Mississippian System:			
Osage Series:			
Shale-----	3	114	W. B.

Well 17/5W-21F3

Type of record: Driller's log.

Altitude: About 810 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Drift-----	90	90	
Mississippian System:			
Osage Series:			
Limestone-----	9	99	
Cavity-----	1	100	
Sandstone, shaly, blue-----	16	116	

Well 17/5W-27G1

Type of record: Log from memory by owner.

Altitude: About 845 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Till (?)-----	36	36	
Gravel-----	4	40	W. B.
Mississippian System:			
Osage Series:			
Limestone-----	57	97	W. B.

Well ~~17/5W~~-32H1

Type of record: Driller's log.

Altitude: About 815 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Drift-----	35	35	
Mississippian System:			
Osage Series:			
Limestone and shale-----	85	120	
Sandstone-----	3	123	W. B.

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 17/5W-36K1

Type of record: Driller's log.

Altitude: About 855 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	30	30	Boulder?
Clay, gray-----	15	45	
Limestone, gray-----	2	47	
Hardpan and a trace of blue- stone-----	3	50	
Mississippian System:			
Osage Series:			
Bluestone, soft-----	4	54	W. B.
Bluestone-----	34	88	

Well 17/6W-2E1

Type of record: Driller's log.

Altitude: About 770 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	15	15	
Clay, sandy, gray-----	35	50	
Sand, brown-----	22	72	
Clay, sandy, gray-----	23	95	
Mississippian System:			
Osage Series:			
Shale, blue-----	5	100	W. B.

Well 17/6W-25P1

Type of record: Driller's log.

Altitude: About 730 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks	
Quaternary System:				
Recent and Pleistocene Series:				
Clay, black-----	2	2		
Clay, yellow-----	2	4		
Sand-----	2	6		
Clay, sandy, gray-----	26	32		
Gravel, coarse, gray-----	6	38		
Clay, sandy-----	18	56		
Gravel, coarse, gray-----	8	64		
Clay-----	2	66		
Sand, fine-----	2	68		
Clay-----	24	92		
Mississippian? System:				
Osage Series:				
Limestone-----	2	94		Sandy shale do
Clay, sandy, gray-----	10	104		
Clay, sandy, green-----	17	121		
Shale, blue-----	39	160		

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 17/6W-36B1

Type of record: Driller's log.

Altitude: About 730 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, sandy-----	4	4	
Gravel and sand-----	13	17	
Clay, sandy-----	17	34.5	
Gravel-----	1.5	36	
Clay and sand, cemented-----	73	109	
Mississippian? System:			
Osage Series:			
Shale-----	3	112	
Sand and clay, muddy-----	9	121	
Shale, blue-----	29	150	

Well 17/6W-36E1

Type of record: Driller's log.

Altitude: About 760 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	15	15	
Clay, sandy, gray-----	32	47	
Mississippian System:			
Osage Series:			
Shale, blue-----	3	50	
Shale, brown-----	15	65	
Shale, blue and white-----	6	71	
Shale, blue-----	29	100	

Well 17/6W-36H1

Type of record: Driller's log.

Altitude: About 760 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, black-----	3	3	
Clay, sandy-----	30	33	
Gravel-----	1	34	
Mississippian System:			
Meramec Series:			
Limestone, shelly, and clay-----	2	36	
Limestone, white-----	6	42	
Limestone, brown-----	3	45	
Limestone, gray-----	39	84	W. B. at 45 ft
Mississippian? System:			
Osage Series:			
Shale, blue-----	16	100	

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 18/3W-18A1

Type of record: Driller's log. Altitude: About 845 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Top soil-----	2	2	
Hardpan-----	26	28	
Sand, fine-----	5	33	
Hardpan-----	7	40	
Mississippian System:			
Osage Series:			
Shale, blue-----	50	90	W. B.

Well 18/3W-18Q1

Type of record: Driller's log. Altitude: About 845 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Top soil, black-----	2	2	
Clay, yellow-----	18	20	
Clay and sandy hardpan-----	15	35	
Mississippian System:			
Osage Series:			
Shale-----	15	50	W. B.

Well 18/3W-29Q1

Type of record: Driller's log. Altitude: About 860 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	61	61	
Gravel-----	1	62	W. B.
Clay-----	58	120	
Sand, muddy-----	4	124	
Clay-----	10	134	
Gravel-----	2	136	W. B.

Well 18/3W-30R1

Type of record: Driller's log. Altitude: About 860 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	20	20	
Clay, sandy, gray-----	103	123	
Sand, fine-----	3	126	
Mississippian System:			
Osage Series:			
Shale-----	2	128	
Limestone and shale-----	4	132	W. B.

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 18/3W-35A1

Type of record: Driller's log.

Altitude: About 885 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Pit-----	5	5	
Quaternary System:			
Recent and Pleistocene Series:			
Clay, sandy-----	7	12	
Sand, muddy-----	1	13	
Clay and gray hardpan-----	42	55	
Gravel, gray-----	5	60	W. B.

Well 18/3W-35H2

Type of record: Driller's log.

Altitude: About 880 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	8	8	
Sand-----	7	15	
Clay-----	19	34	
Gravel-----	6	40	W. B.

Well 18/3W-36D4

Type of record: Driller's log.

Altitude: About 885 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Top soil and clay-----	28	28	
Sand-----	2	30	
Clay and hardpan-----	12	42	
Gravel-----	1	43	W. B.
Clay-----	3	46	
Gravel-----	4	50	W. B.

Well 18/3W-36D5

Type of record: Driller's log.

Altitude: About 885 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Drift-----	75	75	
Mississippian System:			
Osage Series:			
Shale-----	24	99	
Limestone-----	4	103	W. B.

Well 18/4W-3D1

Type of record: Driller's log.

Altitude: About 800 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	21	21	
Gravel, brown-----	3	24	Dry

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 18/4W-3D1--Cont.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Hardpan, sandy, gray-----	3	27	
Gravel, brown-----	16	43	Dry
Clay and sandy hardpan-----	37	80	
Sand-----	18	98	W. B.
Gravel-----	6	104	W. B.

Well 18/4W-3L1

Type of record: Driller's log.

Altitude: About 795 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Top soil, black-----	2	2	
Clay, yellow-----	6	8	
Sand-----	1	9	
Hardpan-----	19	28	
Sand, muddy-----	7	35	
Hardpan-----	69	104	
Gravel, coarse-----	10	114	W. B.

Well 18/4W-5A1

Type of record: Driller's log.

Altitude: About 790 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	15	15	
Sand-----	2	17	
Clay, sandy-----	5	22	
Gravel, brown-----	8	30	Dry
Hardpan, gray-----	21	51	
Sand and gravel-----	16	67	Dry
Gravel-----	5	72	W. B.
Hardpan, gray-----	50	122	
Gravel and sand-----	12	134	W. B.
Hardpan-----	16	150	
Gravel-----	3	153	
Clay and hardpan-----	5	158	
Sand and gravel-----	1	159	
Mississippian System:			
Osage Series:			
Limestone-----	41	200	W. B.
Shale, soft, blue-----	4	204	

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 18/4W-5A3

Type of record: Driller's log.

Altitude: About 790 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Top soil and clay-----	20	20	
Clay and sand-----	30	50	
Gravel-----	20	70	Dry
Gravel, cemented-----	10	80	
Clay-----	20	100	
Gravel and clay-----	22	122	
Gravel, gray-----	10	132	W. B.
Clay-----	1	133	
Sand and gravel-----	12	145	
Clay-----	5	150	
Shale-----	4	154	Boulder?
Gravel-----	5	159	
Sand, gravel, and clay-----	5	164	
Mississippian System:			
Osage Series:			
Limestone, gray-----	50	214	W. B.
Shale-----	12	226	

Well 18/4W-6A1

Type of record: Driller's log.

Altitude: About 770 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, sandy-----	8	8	
Gravel-----	42	50	Dry
Hardpan-----	41	91	
Gravel-----	5	96	
Sand, muddy-----	10	106	
Gravel-----	20	126	W. B.

Well 18/4W-6H1

Type of record: Driller's log.

Altitude: About 730 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	15	15	
Gravel-----	15	30	
Clay, sandy-----	2	32	
Sand and gravel-----	17	49	W. B.

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 18/4W-6H2

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

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	2	2	
Gravel-----	16	18	Dry
Hardpan-----	4	22	
Sand-----	16	38	W. B.
Gravel-----	5	43	W. B.

Well 18/4W-7J2

Type of record: Driller's log. Altitude: About 785 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	6	6	
Gravel-----	44	50	Dry
Clay and gray hardpan-----	6	56	
Mississippian System:			
Osage Series:			
Shale-----	16	72	W. B.

Well 18/4W-8D3

Type of record: Driller's log. Altitude: About 785 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	18	18	
Clay, sandy, and gravel-----	34	52	
Gravel-----	12	64	W. B.

Well 18/4W-8E1

Type of record: Driller's log. Altitude: About 785 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	16	16	
Gravel-----	27	43	Dry
Mississippian System:			
Osage Series:			
Shale, blue-----	29	72	W. B.

Well 18/4W-8L1

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

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	6	6	
Hardpan-----	32	38	

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 18/4W-8L1--Cont.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Mississippian System: Osage Series: Shale, blue-----	12	50	W. B.

Well 18/4W-15A1

Type of record: Driller's log. Altitude: About 820 feet.

Quaternary System: Recent and Pleistocene Series: Clay, yellow----- Clay and hardpan-----	12 28	12 40	
Mississippian System: Osage Series: Shale, blue-----	20	60	W. B.

Well 18/4W-17M1

Type of record: Driller's log from memory. Altitude: About 810 feet.

Quaternary System: Recent and Pleistocene Series: Clay----- Gravel----- Clay-----	35 .5 18.5	35 35.5 54	W. B.
Mississippian System: Osage Series: Shale-----	10	64	W. B.

Well 18/4W-18R1

Type of record: Driller's log. Altitude: About 815 feet.

Quaternary System: Recent and Pleistocene Series: Clay----- Gravel and sand----- Clay, gray----- Sand, muddy----- Clay, gray-----	12 8 15 2 13	12 20 35 37 50	Dry
Mississippian System: Osage Series: Shale-----	22	72	W. B.

Well 18/4W-20D1

Type of record: Driller's log from memory. Altitude: About 810 feet.

Quaternary System: Recent and Pleistocene Series: Hardpan----- Gravel----- Hardpan-----	46 2 5	46 48 53	W. B.
---	--------------	----------------	-------

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 18/4W-26N1

Type of record: Driller's log.

Altitude: About 870 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, brown-----	20	20	
Clay, gray-----	61.5	81.5	
Gravel, coarse, gray-----	1.5	83	W. B.

Well 18/4W-26Q2

Type of record: Driller's log.

Altitude: About 870 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	18	18	
Clay and hardpan, gray-----	149	167	
Gravel-----	5	172	W. B.

Well 18/4W-28A1

Type of record: Driller's log from memory.

Altitude: About 830 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Top soil, black-----	5	5	
Hardpan-----	40	45	
Gravel-----	13	58	W. B.
Sand-----	4	62	W. B.
Mississippian System:			
Osage Series:			
Shale-----	--	62	

Well 18/5W-1C1

Type of record: Driller's log.

Altitude: About 725 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	5	5	
Gravel-----	35	40	Dry
Clay-----	46	86	
Gravel-----	3	89	W. B.

Well 18/5W-2A1

Type of record: Driller's log.

Altitude: About 715 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	6	6	
Gravel-----	14	20	Dry
Hardpan-----	13	33	
Gravel-----	40	73	Dry
Gravel-----	6	79	W. B.

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 18/5W-2A2

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

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	4	4	
Gravel-----	62	66	Dry
Gravel-----	19	85	W. B.

Well 18/5W-2B1

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

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Hardpan-----	15	15	
Gravel-----	45	60	Dry
Mississippian System:			
Osage Series:			
Shale-----	20	80	W. B.

Well 18/5W-2G2

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

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	8	8	
Gravel-----	12	20	
Mississippian System:			
Osage Series:			
Shale, blue-----	22	42	

Well 18/5W-2G3

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

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay and fine sand-----	23	23	
Clay, sandy-----	13	36	
Mississippian System:			
Osage Series:			
Shale and some limestone-----	34	70	W. B.

Well 18/5W-10K3

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

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	10	10	
Hardpan-----	5	15	
Sand and gravel-----	17	32	Dry

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 18/5W-10K3--Cont.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Mississippian System: Osage Series: Shale-----	28	60	W. B.

Well 18/5W-13C1

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

Quaternary System: Recent and Pleistocene Series: Clay----- Sand-----	15 5	15 20	
Mississippian System: Osage Series: Shale-----	39	59	W. B.

Well 18/5W-31C1

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

Quaternary System: Recent and Pleistocene Series: Boulders----- Gravel, dirty, yellow----- Sand and gravel, yellow-----	5 15 25	5 20 45	
Mississippian System: Osage Series: Shale, soft, blue----- Slate, blue to gray----- Limestone, shaly, blue-----	5 50 50	50 100 150	W. B.

Well 18/5W-33R1

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

Quaternary System: Recent and Pleistocene Series: Top soil----- Clay----- Hardpan, sandy----- Gravel-----	1 9 28 2	1 10 38 40	W. B.
--	-------------------	---------------------	-------

Well 18/5W-34H1

Type of record: Driller's log. Altitude: About 785 feet.

Quaternary System: Recent and Pleistocene Series: Clay, yellow----- Hardpan, sandy, gray-----	20 43	20 63	
Mississippian System: Osage Series: Shale-----	50	113	W. B.

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 18/5W-36H1

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

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	18	18	
Clay, sandy, gray-----	92	110	
Mississippian System:			
Osage Series:			
Shale, blue-----	26	136	W. B.

Well 18/6W-12C1

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

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	30	30	
Clay, blue-----	18	48	
Mississippian System:			
Osage Series:			
Limestone-----	7	55	W. B.

Well 18/6W-23R4

Type of record: Driller's log. Altitude: About 810 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Top soil-----	1	1	
Clay, yellow-----	7	8	
Hardpan, gray-----	13	21	
Gravel, brown-----	10	31	W. B. at 22 ft
Gravel, gray-----	11	42	

Well 19/3W-1G1

Type of record: Driller's log. Altitude: About 815 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Top soil, yellow, and blue clay--	21.5	21.5	
Sand and gravel-----	2.5	24	W. B.
Clay and hardpan, gray-----	10	34	
Gravel-----	1	35	W. B.
Mississippian System:			
Osage Series:			
Clay and shale, soft-----	18	53	
Limestone, hard, blue-----	13	66	W. B.

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 19/3W-8D1

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

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	10	10	
Hardpan, sandy, and gravel-----	25	35	
Mississippian System:			
Osage Series:			
Limestone-----	38	73	W. B.

Well 19/3W-13M1

Type of record: Driller's log. Altitude: About 835 feet.

Pit-----	4	4	
Quaternary System:			
Recent and Pleistocene Series:			
Sand-----	16	20	Dry
Sand-----	8	28	W. B.
Gravel, coarse-----	4	32	W. B.

Well 19/3W-27J1

Type of record: Driller's log. Altitude: About 850 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Top soil, clayey-----	8	8	
Hardpan, sandy-----	33	41	
Mississippian System:			
Osage Series:			
Shale, blue-----	6	47	
Limestone-----	13	60	
Shale-----	6	66	

Well 19/3W-33M1

Type of record: Driller's log. Altitude: About 820 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Top soil-----	1	1	
Clay, yellow-----	9	10	
Clay and hardpan, gray-----	15	25	
Sand, fine-----	10	35	
Clay and hardpan, gray-----	5	40	
Mississippian System:			
Osage Series:			
Shale-----	30	70	
Limestone-----	20	90	W. B.

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.*

Well 19/4W-12D1

Type of record: Driller's log. Altitude: About 785 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	30	30	
Clay, blue-----	18	48	
Mississippian System:			
Osage Series:			
Limestone-----	7	55	W. B.

Well 19/4W-14B1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, sandy, yellow-----	18	18	
Clay, sandy, gray-----	23	41	
Sand-----	1	42	
Mississippian System:			
Osage Series:			
Shale-----	21	63	W. B.

Well 19/4W-16J1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	35	35	
Gravel-----	2	37	Dry
Gravel-----	21	58	W. B.

Well 19/4W-19R2

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	24	24	
Mississippian System:			
Osage Series:			
Shale, brown-----	7	31	
Shale, blue-----	19	50	W. B.

Well 19/4W-19R5

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	15	15	
Sand-----	3	18	
Clay, sandy-----	12	30	

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 19/4W-31H1--Cont.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand and gravel-----	7	23	Dry
Sand and gravel-----	12	35	W. B.
Gravel-----	28	63	W. B.

Well 19/4W-32L1

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

Quaternary System:			
Recent and Pleistocene Series:			
Gravel and boulders-----	13.5	13.5	
Hardpan-----	28.5	42	
Gravel, coarse, and fine sand----	15	57	W. B.
Sand, coarse, and some gravel----	10	67	W. B.

Well 19/4W-32L4

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

Quaternary System:			
Recent and Pleistocene Series:			
Sand-----	19	19	
Hardpan-----	1.5	20.5	
Gravel, coarse-----	16.5	37	W. B.
Hardpan, blue-----	5	42	
Gravel coarse-----	2	44	
Clay, brown, and layers of gravel-----	3.5	47.5	
Clay, brown-----	2.5	50	
Gravel and hardpan-----	5	55	
Sand, fine, gray-----	8	63	W. B.
Gravel, large, clean-----	8	71	W. B.
Clay, blue-----	9.5	80.5	
Gravel-----	1.5	82	
Mississippian System:			
Osage Series:			
Limestone-----	--	82	

Well 19/4W-32L8

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

Fill-----		4	
Quaternary System:			
Recent and Pleistocene Series:			
Sand and gravel-----	6.5	10.5	
Clay-----	6.5	17	
Sand and gravel-----	2	19	
Clay-----	1.5	20.5	
Sand and gravel-----	1.5	22	

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 19/4W-32L8--Cont.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	2	24	
Sand-----	.5	24.5	
Clay-----	5.5	30	
Sand and gravel-----	40	70	W. B.
Clay, gravelly-----	--	70	

Well 19/4W-32L13

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

Quaternary System:			
Recent and Pleistocene Series:			
Sand and gravel-----	8.5	8.5	
Hardpan-----	1.5	10	
Clay, blue, and gravel-----	4	14	
Clay, blue-----	16.5	30.5	
Sand and coarse gravel-----	20	50.5	W. B.
Clay, gray-----	10.5	61	
Sand and gravel-----	.5	61.5	
Clay, gray-----	2.5	64	
Gravel-----	1	65	
Clay-----	7	72	
Mississippian System:			
Osage Series:			
Rock-----	1	73	Limestone?

Well 19/4W-32M3

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

Quaternary System:			
Recent and Pleistocene Series:			
Top soil-----	2	2	
Clay, soft, yellow-----	16	18	
Clay, gritty, soft-----	3	21	
Sand, muddy, yellow-----	7	28	
Gravel, sandy, coarse-----	11	39	
Clay, gritty, hard-----	23	62	
Clay, gritty, soft-----	7	69	
Gravel, medium-----	4.5	73.5	W. B.
Clay, hard-----	22.5	96	
Sand, medium, and some gravel----	6	102	W. B.
Sand, fine, silty-----	12	114	W. B.
Clay, hard, and some livery sand-	6	120	
Sand, livery, fine, muddy-----	7	127	
Sand, hard, fine-----	6	133	
Clay, hard, gritty-----	9	142	

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 19/4W-32M3--Cont.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Mississippian System:			
Osage Series:			
Rock-----	1	143	Limestone?
Rock, broken-----	1	144	Do
Limestone-----	16	160	W. B.
Shale, black-----	1	161	

Well 19/4W-32N1

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	19	19	
Sand and gravel-----	37	56	Dry
Hardpan-----	50	106	
Sand and gravel-----	7	113	W. B.
Gravel-----	8.5	121.5	W. B.

Well 19/4W-33R1

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	18	18	
Clay, gray-----	52	70	
Sand and gravel-----	3	73	W. B.
Clay-----	27	100	
Gravel-----	5	105	W. B.

Well 19/4W-34E2

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	4	4	
Gravel-----	32	36	Dry
Clay-----	15	51	
Gravel-----	9	60	Dry
Gravel-----	10	70	W. B.

Well 19/4W-34E11

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

Quaternary System:			
Recent and Pleistocene Series:			
Gravel-----	50	50	Dry
Clay and hardpan-----	30	80	
Sand and gravel, dirty-----	6	86	
Clay-----	27	113	
Gravel-----	2	115	W. B.

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 19/4W-34J1

Type of record: Driller's log. Altitude: About 780 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	15	15	
Gravel-----	10	25	Dry
Hardpan, sandy-----	12	37	
Gravel-----	8	45	W. B.

Well 19/4W-34M1

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

Fill dirt and bricks-----	5	5	
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	20	25	
Sand, fine-----	5	30	
Clay-----	25	55	
Sand, fine, muddy-----	3	58	
Clay-----	14	72	
Gravel, coarse, gray-----	6	78	W. B.

Well 19/4W-34N1

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	8	8	
Gravel-----	4	12	Dry
Clay and hardpan-----	97	109	
Gravel, gray-----	4	113	W. B.

Well 19/4W-34N4

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

Quaternary System:			
Recent and Pleistocene Series:			
Top soil and clay-----	3	3	
Clay, yellow-----	7	10	
Hardpan, sandy-----	20	30	
Hardpan and gravel-----	20	50	
Hardpan, sandy-----	20	70	
Hardpan, soft, muddy-----	30	100	
Gravel-----	5	105	

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 19/4W-34N6

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Top soil-----	2	2	
Clay, yellow-----	12	14	
Clay and hardpan, gray-----	17	31	
Gravel, yellow-----	3	34	Dry
Clay and hardpan-----	56	90	
Sand, muddy-----	5	95	
Gravel-----	8	103	W. B.

Well 19/4W-35G2

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Top soil and clay-----	3	3	
Hardpan-----	110	113	
Sand and gravel-----	15	128	W. B.

Well 19/4W-35N1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	18	18	
Clay, gray-----	12	30	
Clay, brown-----	30	60	
Clay, gray-----	11	71	
Clay, brown-----	10	81	
Quicksand and gravel, green-----	9	90	W. B.
Sand and gravel-----	11	101	W. B.

Well 19/5W-2G1

Type of record: Driller's log. Altitude: About 810 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	24	24	
Sand-----	6	30	
Clay-----	35	65	
Sand-----	5	70	
Mississippian System:			
Osage Series:			
Shale-----	9	79	W. B.

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 19/5W-11P1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, soft-----	50	50	
Sand-----	2	52	
Clay-----	8	60	
Mississippian System:			
Osage Series:			
Shale-----	12	72	W. B.

Well 19/5W-25L1

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay, black-----	5	5	
Clay, yellow-----	13	18	
Gravel, coarse-----	2	20	W. B.

Well 19/5W-26E1

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	8	8	
Gravel and sand-----	52	60	Dry
Sand, fine-----	5	65	W. B.
Sand and gravel, cemented-----	15	80	
Gravel-----	5	85	W. B.

Well 19/5W-26J2

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	8	8	
Gravel-----	24	32	Dry
Mississippian System:			
Osage Series:			
Shale, blue-----	14	46	W. B.

Well 19/5W-28A1

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	5	5	
Sand-----	15	20	
Clay-----	14	34	
Sand-----	7	41	

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 19/6W-13N2--Cont.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand-----	10	55	
Clay-----	18	73	
Mississippian System:			
Osage Series:			
Shale-----	29	102	W. B.

Well 19/6W-14L1

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

Quaternary System:			
Recent and Pleistocene Series:			
Top soil-----	4	4	
Sand and gravel-----	4	8	
Hardpan-----	37	45	
Sand, muddy-----	6	51	
Sand and gravel-----	31	82	W. B.
Gravel and hardpan-----	2	84	
Sand and gravel-----	15	99	W. B.
Hardpan, sandy-----	4	103	
Hardpan-----	14	117	
Gravel, cemented, and hardpan---	13	130	
Mississippian System:			
Osage Series:			
Shale-----	33.5	163.5	

Well 20/3W-1J1

Type of record: Driller's log. Altitude: About 825 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	18	18	
Clay, gray-----	60	78	
Sand-----	3	81	W. B.
Gravel-----	3	84	W. B.

Well 20/3W-1K1

Type of record: Driller's log. Altitude: About 825 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow, blue, and gray, and strips of cemented gravel--	54	54	
Clay, gray-----	33	87	
Sand and gravel-----	5	92	W. B.

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 20/3W-11J1

Type of record: Driller's log.

Altitude: About 815 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	20	20	W. B.
Clay, blue, and strips of gravel-----	16	36	
Clay, blue-----	20	56	
Gravel-----	3	59	
Mississippian System:			
Osage Series:			
Limestone, hard-----	--	59	

Well 20/3W-11R1

Type of record: Driller's log.

Altitude: About 820 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	18	18	W. B.
Sand and gravel-----	4	22	
Clay, blue-----	18	40	
Hardpan-----	10	50	
Gravel, dirty-----	3	53	
Hardpan-----	3	56	
Gravel-----	4	60	

Well 20/3W-19K1

Type of record: Driller's log.

Altitude: About 785 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	6	6	W. B.
Gravel and clay-----	18	24	
Gravel, gray-----	12	36	

Well 20/3W-24P1

Type of record: Driller's log.

Altitude: About 820 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Soil and yellow clay-----	20	20	Dry
Sand, white-----	2	22	
Mississippian System:			
Osage Series:			
Sandstone?, white-----	44	66	W. B.

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 20/3W-25H1

Type of record: Driller's log. Altitude: About 820 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Top soil and yellow clay-----	17	17	
Clay, gray-----	13	30	
Sand-----	9	39	
Clay and hardpan-----	14	53	
Gravel-----	5	58	W. B.

Well 20/4W-1L2

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	18	18	
Sand, fine, brown-----	2	20	
Clay, sandy-----	35	55	
Gravel and some clay-----	3	58	
Clay, sandy-----	7	65	
Gravel-----	3	68	W. B.

Well 20/4W-9A1

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay, sandy-----	31	31	
Gravel, brown-----	9	40	W. B.
Gravel, gray-----	4	44	W. B.

Well 20/4W-19P1

Type of record: Driller's log. Altitude: About 830 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	18	18	
Sand-----	2	20	
Clay-----	8	28	
Gravel-----	3	31	W. B.

Well 20/4W-21D1

Type of record: Driller's log. Altitude: About 810 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Top soil, yellow and blue clay---	52	52	
Sand-----	8	60	
Clay, gray, and hardpan-----	18	78	
Gravel, dirty-----	5	83	

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 20/4W-21D1--Cont.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, gray, and strips of sand---	23	106	
Gravel, dirty, juggy-----	3	109	
Clay, gray, and hardpan-----	62	171	
Mississippian System:			
Osage Series:			
Limestone, hard, blue-----	14	185	W. B.

Well 20/5W-9F1

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	12	12	
Sand-----	23	35	
Clay-----	27	62	
Sand and gravel-----	6	68	W. B.

Well 20/5W-10B1

Type of record: Driller's log. Altitude: About 780 feet.

Pit-----	4	4	
Quaternary System:			
Recent and Pleistocene Series:			
Record missing-----	11	15	
Sand-----	5	20	
Hardpan and clay-----	20	40	
Sand, fine-----	1	41	
Clay and hardpan-----	24	65	
Sand-----	6	71	W. B.
Gravel-----	4.	75	W. B.

Well 20/5W-18M1

Type of record: Driller's log. Altitude: About 780 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	5	5	
Gravel-----	85	90	
Clay, blue-----	40	130	
Mississippian System:			
Osage Series:			
Sandstone-----	35	165	
Shale-----	100	265	
Shale, limy-----	20	285	T. D. 871 ft

Table 5.--Selected well logs, Montgomery County, Ind.--Cont.

Well 20/5W-26H1

Type of record: Driller's log. Altitude: About 830 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	4	4	Dry
Gravel-----	16	20	
Sand, dirty, muddy-----	40	60	
Clay and hardpan, gray-----	20	80	
Sand, fine-----	4	84	
Clay and hardpan-----	28	112	
Mississippian System:			
Osage Series:			
Shale, blue-----	20	132	W. B.

Well 20/6W-1K1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Top soil-----	2	2	W. B.
Clay, yellow-----	18	20	
Hardpan-----	46	66	
Gravel, coarse, clean-----	88	154	
Mississippian System:			
Osage Series:			
Shale-----	30	184	

Well 20/6W-15J1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Top soil and clay-----	4	4	W. B.
Hardpan and blue clay-----	32	36	
Sand-----	2	38	
Hardpan-----	16	54	
Sand-----	19	73	
Hardpan-----	5	78	
Mississippian System:			
Osage Series:			
Shale, sandy-----	58	136	W. B.

Table 6.--Field chemical analyses of water from wells, Montgomery County, Ind.
(Results in parts per million)

Well number: See text for description
of well-numbering system.

Geologic Age: Pl, Pleistocene; P,
Pennsylvanian; M, Mississippian.

Material: Cgl, conglomerate; G,
gravel; Ls, limestone; S, sand;
Ss, sandstone; Sh, shale; Sh-ls,
shaly limestone; Sls, siltstone.

Well	Material	Geologic Age	Date of Collection	Temperature (°F)	Iron (Fe)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Hardness as CaCO ₃ (Calcium, Magnesium)	Remarks
17/3W- 1L1	S	Pl	5-23-61	52	0.8	371	12	8	252	
4H1	Ls	M	8- 6-58	58	<.1	464	---	48	80	
4Q1	Ls	M	8- 6-58	63	.1	317	---	4	292	
5D1	G	Pl	8- 7-61	54	3.0	429	18	8	312	
5F1	G	Pl	8- 6-58	60	.2	590	---	8	376	
8N1	G	Pl	5-23-61	53	3.0	371	100	48	436	
11C1	Ls	M	8- 5-58	69	<.1	420	---	6	224	
11K1	G	Pl	8- 5-58	--	1.5	454	---	6	288	
13K1	Ls	M	8- 5-58	--	1.5	425	---	70	212	
14F1	L,Sh	M	8- 5-58	--	2.0	464	---	3	312	
18E1	G	Pl	8- 6-58	--	2.0	425	---	3	276	
21C1	G	Pl	8- 6-58	60	.2	468	---	6	348	
22Q1	Sh?	M	8- 5-58	60	.1	434	---	6	244	
24N1	G	Pl	8- 5-58	64	1.5	459	---	4	268	
26B1	G	Pl	8- 5-58	--	2.0	464	---	12	248	
27C1	Sh?	M	8- 5-58	58	2.0	551	---	32	256	
30G1	G	Pl	8- 6-58	60	2.0	473	---	0	276	
30P1	G	Pl	8- 6-58	60	2.0	464	---	4	284	
30R1	G	Pl	8- 6-58	56	3.0	478	---	6	280	
31Q1	Sh	M	5-23-61	54	1.0	493	12	10	228	
36Q1	----	Pl	8- 5-58	62	2.0	410	---	2	232	
17/4W- 3E1	Sh?	M	9-10-58	--	2.0	517	---	12	308	
5N1	Sh?	M	9- 8-58	58	>7.5	581	---	2	372	Gas in water
6B1	Sh?	M	9- 8-58	59	5.0	566	---	4	372	
7J1	Sh?	M	8- 5-58	61	5.0	532	---	3	352	
7N1	G	Pl	8- 5-58	55	7.5	488	---	6	296	
11H1	Sh?	M?	9- 9-58	--	3.0	493	---	6	348	
16J1	Sh?	M	9- 9-58	--	.3	273	---	30	284	
16R1	Sh?	M	9- 9-58	54	<.1	327	---	14	292	
17N1	Ls	M	8- 6-58	59	2.5	503	---	2	352	
19Q1	G	Pl	5-23-61	55	5.0	532	12	8	368	
19R1	S,G	Pl	5-23-61	53	4.0	517	13	8	324	

Table 6.--Field chemical analyses of water from wells, Montgomery Co., Ind.--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)	Remarks
17/4W-21C1	Ls	M	9-10-58	--	0.8	493	---	12	380	
22E1	Ls	M	9- 9-58	--	<.1	410	---	20	384	
25B2	G	P1	9- 8-58	62	1.0	561	---	6	380	
25C2	Sh	M	9- 8-58	--	4.0	532	---	8	416	
27J1	Ss	M	9-10-58	--	3.0	444	---	10	372	
28K1	Sh?	M	9- 8-58	--	2.0	542	---	3	364	
30Q1	Ls	M	8- 5-58	58	1.0	420	---	6	252	
31F1	G	P1	9- 8-58	57	>7.5	561	---	3	348	
32E1	Ls	M	8- 5-58	61	.1	371	---	10	316	
34F1	G?	P1	9- 8-58	57	3.0	512	---	4	352	
35A1	G	P1	8- 6-58	61	.2	473	---	0	296	
35R1	S	P1	9- 8-58	61	5.0	503	---	5	284	
17/5W- 1Q1	Ss?	M	8- 5-58	55	.5	400	---	76	314	
3Q1	Sh?	M	8- 5-58	60	2.0	478	---	2	308	
7B1	Sh	M	8- 5-58	58	.3	493	---	18	368	
9N1	Sh?	M	8- 5-58	61	1.5	464	---	3	320	
13P1	G	P1	8- 6-58	62	2.5	493	---	2	316	
13R1	Ss	M	8- 5-58	57	2.0	464	---	1	336	
21E1	Sh	M	7-20-61	56	1.5	429	14	6	272	
21F2	Sls	M	8- 5-58	61	.2	390	---	2	252	
21M1	G	P1	8- 5-58	57	2.0	493	---	2	332	
22G1	Ls	M	8- 5-58	58	1.0	498	---	4	244	
25C1	Sls	M	8- 5-58	60	.8	346	---	6	296	
27G1	Ls	M	8- 6-58	62	2.5	498	---	4	336	
27G2	----	P1	8- 6-58	55	.4	390	---	68	676	
30K1	G	P1	8- 6-58	58	3.0	468	---	2	256	
31G1	Sh	M	8- 6-58	58	.8	429	---	2	272	
32C1	G	P1	8- 5-58	53	>7.5	508	---	2	340	
32E1	G	P1	8- 5-58	65	3.0	493	---	6	348	
32H1	Ss	M	8- 5-58	56	3.0	405	---	6	240	
35K1	Ls	M	8- 5-58	55	.5	415	---	30	396	
17/6W- 2E1	Sh	M	7-20-61	--	1.0	478	30	6	376	
2H1	Sh	M	9-10-58	59	<.1	268	---	31	260	
10J1	Ss	M	9-10-58	55	.1	468	---	12	348	
11B1	Sh	M	9-10-58	58	<.1	405	---	10	320	
11N1	Ss	P	9-10-58	59	1.5	464	---	14	352	
12N1	Sh	M	9-10-58	55	3.0	439	---	4	332	
22J1	G	P1	9-10-58	57	<.1	332	---	2	268	

Table 6.--Field chemical analyses of water from wells, Montgomery Co., Ind.--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)	Remarks
17/6W-23K1	Sh	M	9-10-58	56	4.0	493	---	2	322	
25E1	Sls	M	9-10-58	56	1.0	478	---	3	280	
34C1	Ls	M	9-10-58	62	.1	405	---	13	340	
18/3W- 2P1	G	P1	5-24-61	--	3.0	434	13	8	280	
5Q1	G	P1	5-24-61	--	3.0	390	12	8	284	
6P1	G	P1	5-24-61	--	3.0	327	14	6	228	
7P1	Sh	M	5-24-61	56	.1	293	52	10	284	
10P1	Sh	M	5-24-61	55	1.0	307	13	8	212	
11A1	Ls	M	5-24-61	56	.3	322	12	12	228	
15Q2	Sh	M	9-24-58	55	3.0	625	---	2	312	
16A1	Sh	M	5-24-61	54	.8	288	14	6	200	
18A1	Sh	M	8- 7-61	57	.5	415	78	18	364	
18R1	Sh	M	5-24-61	--	1.5	415	24	30	236	
19C1	G	P1	5-24-61	56	2.0	371	14	10	280	
22L1	Ls	M	9-24-58	59	<.1	337	---	6	296	
22L2	G	P1	9-24-58	57	3.0	454	---	1	336	
23Q1	G	P1	9-24-58	57	1.5	410	---	2	228	
24D1	G	P1	9-24-58	57	1.0	478	---	2	276	
25M1	Sh	M	5-24-61	--	3.0	429	12	8	296	
25N1	S,G	P1	9-24-58	--	2.0	508	---	8	316	
26A1	Ss	M	9-24-58	56	2.0	488	---	4	296	
28B1	G	P1	9-25-58	61	2.0	449	---	6	288	
29J1	G	P1	9-25-58	56	1.5	498	---	10	296	
18/3W-29Q1	G	P1	5-24-61	55	1.5	468	16	20	288	
31B1	G	P1	9-24-58	61	2.0	498	---	4	328	
33B1	Ls	M	9-24-58	58	2.0	522	---	32	240	
35A1	G	P1	5-24-61	56	2.0	390	20	14	288	
18/4W- 2B1	G	P1	6-15-61	56	7.5	459	12	6	336	
2K1	Sh	M	6-15-61	56	.5	386	11	8	208	
2M1	G	P1	8- 9-61	--	.5	386	61	10	328	
2R1	S,G	P1	6-15-61	54	7.5	575	280	66	716	
3A1	S	P1	8- 9-61	--	1.0	473	15	6	360	
3D1	S,G	P1	8- 9-61	55	2.5	468	12	10	328	
3L1	G	P1	8- 9-61	--	1.0	390	30	8	304	
3M1	S,G	P1	6-15-61	57	1.0	444	14	8	352	
6A1	G	P1	8-10-61	54	2.0	390	55	14	360	
6E1	Sh	M	6-15-61	--	.5	381	36	10	344	

Table 6.--Field chemical analyses of water from wells, Montgomery Co., Ind.--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)	Remarks
18/4W-	6H2	S,G	P1	8- 9-61	54	0.1	376	53	22	360
	6K1	G	P1	6-15-61	--	.1	400	90	18	404
	7C1	Sh?	M	6-15-61	55	.5	390	46	12	352
	7J1	G	P1	10-15-58	56	.1	415	---	4	348
	8D2	Sls	M	6-15-61	57	.1	356	39	14	320
	8D3	G	P1	6-15-61	--	.1	342	38	26	344
	8L1	Sh	M	6-15-61	--	.1	425	19	10	336
	9A1	G	P1	6-15-61	57	3.0	459	12	14	312
	9F1	G	P1	6-15-61	--	4.0	449	13	10	316
	9M1	G	P1	6-15-61	--	1.0	449	61	18	404
	10M1	G	P1	6-15-61	56	4.0	508	11	46	320
	11J1	G	P1	6-15-61	--	4.0	498	14	16	372
	14A1	Sh	M	8-10-61	--	1.5	478	12	8	300
	15A1	Sh	M	6-15-61	56	1.0	483	11	8	348
	15C1	Sh	M	6-15-61	56	.2	468	11	8	336
	16D1	G	P1	10-15-58	60	2.0	483	---	8	322
	18J1	Sh?	M	10-15-58	55	.3	508	---	4	364
	18M1	Sh?	M	10-15-58	57	.5	498	---	10	292
	18R1	Sh	M	6-15-61	--	.5	483	11	8	364
	20D1	G	P1	10-15-58	56	3.0	561	---	4	372
	21B1	Sh	M	9-25-58	57	1.5	532	---	10	416
	22K1	Sh	M	10-15-58	58	4.0	337	---	10	264
	22N1	G	P1	9-25-58	54	2.0	449	---	18	360
	25N1	G	P1	9-25-58	56	2.0	473	---	4	284
	26A1	G	P1	6-16-61	56	.5	386	10	10	232
	26N1	G	P1	6-16-61	--	3.0	542	11	8	280
	26P1	G	P1	9-26-58	--	1.0	517	---	20	272
	26Q1	G	P1	9-26-58	--	1.5	512	---	20	276
	26Q2	G	P1	6-16-61	57	1.0	488	10	22	264
	27R2	G	P1	9-26-58	--	2.0	454	---	12	308
	28A1	G,S	P1	10-15-58	58	4.0	590	---	26	500
	30P1	G	P1	9-25-58	61	2.0	488	---	8	308
	30Q1	----	P1	9-26-58	56	2.0	459	---	4	304
	32C1	G	P1	9-25-58	59	7.5	512	---	4	380
	34B1	Sh	M	9-26-58	59	1.0	517	---	22	260
18/5W-	1C1	G	P1	7-21-61	--	2.0	376	100	10	364
	1D1	S,G	P1	7-21-61	57	.1	371	41	10	332
	2A2	G	P1	7-21-61	--	.1	249	25	2	312

Table 6.--Field chemical analyses of water from wells, Montgomery Co., Ind.--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)	Remarks
18/5W-	2F1	Sh	M	9-22-58	64	0.1	439	---	10	376
	2G2	Sh	M	7-21-61	57	.1	351	75	18	360
	2G3	Sh, Ls	M	8-10-61	--	.3	215	90	16	256
	3K1	Sh	M	7-21-61	--	.1	410	37	10	304
	8D2	G	P1	7-21-61	55	1.5	327	36	6	280
	9B1	G	P1	7-21-61	--	.1	420	55	14	372
	9B2	Sh	M	9-22-58	--	<.1	386	---	8	348
	10H1	----	P1	7-21-61	57	.1	386	35	12	352
	12L1	Sh?	M	9-22-58	60	.8	429	---	7	376
	12R1	Sh?	M	7-21-61	56	.3	429	90	28	460
	13C1	Sh	M	7-21-61	--	.1	390	47	10	348
	14Q1	Cg1?	P1	9-22-58	60	1.5	542	---	6	320
	16B1	G	P1	9-24-58	58	2.0	390	---	8	348
	16C1	S, G	P1	8-10-61	57	.3	425	28	14	344
	17G1	Sh	M	7-19-61	55	.5	449	17	6	348
	17K1	Sh	M	8-10-61	--	.1	454	38	12	400
	18C1	Sh	M	7-19-61	56	1.0	459	17	6	352
	18E1	Sh?	M	7-19-61	--	2.0	478	30	10	392
	19N1	Sh	M	9-11-58	--	1.5	434	---	2	312
	22R1	----	P1	7-20-61	57	.8	537	10	18	292
	24A1	Sh	M	9-22-58	65	.8	444	---	8	372
	24C1	Sh	M	8-10-61	57	.1	537	32	24	428
	26B1	Sh	M	9-22-58	--	5.0	561	---	8	320
	27G1	Sh	M	8-10-61	--	.3	459	19	10	344
	29K1	Sh	M	7-20-61	57	.5	444	24	6	376
	31C1	Sh-ls	M	7-20-61	59	1.5	586	27	12	364
	31J2	Sh	M	7-20-61	59	3.0	488	17	8	416
	31L1	Sh?	M	7-20-61	--	.1	459	51	12	400
	32D1	Sh	M	7-20-61	58	.3	376	65	16	364
	32E1	----	M	9-11-58	58	.1	508	---	12	136
	33R1	G	P1	7-20-61	59	.5	493	62	18	440
	34H1	Sh	M	7-20-61	58	3.0	464	17	6	356
	34P1	G	P1	7-20-61	--	2.5	464	20	6	348
	36H1	Sh	M	7-20-61	58	3.0	439	18	2	288
	36Q1	Sh?	M	7-20-61	57	2.0	478	14	10	352
18/6W-	1E1	G	P1	7-19-61	54	2.0	425	27	2	340
	3Q1	Sh	M	7-19-61	56	1.0	488	13	274	260
	11A1	G	P1	7-19-61	54	1.5	312	22	24	260

Table 6.--Field chemical analyses of water from wells, Montgomery Co., Ind.--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)	Remarks
18/6W-12C1	Ls	M	7-19-61	57	1.5	395	43	8	360	
12J1	G	P1	7-19-61	57	.5	307	36	6	276	
13A1	G	P1	7-19-61	56	2.0	342	46	12	316	
23R1	G	P1	9-11-58	--	<.1	503	---	19	440	
23R2	S,G	P1	7-20-61	57	.3	508	110	24	492	
23R3	G	P1	7-20-61	56	2.0	508	21	16	416	
25B1	Sh	M	9-11-58	62	.3	503	---	5	368	
25K1	Sh	M	9-11-58	55	3.0	503	---	6	352	
26B1	G	P1	7-19-61	55	.5	512	130	44	564	
27P1	Ss?	P?	9-11-58	57	3.0	517	---	4	348	
34L1	Sh	P?	7-20-61	54	.5	483	14	6	360	
35E1	Sh	M	7-20-61	57	2.0	464	13	4	324	
19/3W-1G1	Ls	M	8-7-61	56	1.5	454	53	14	388	
2J1	Ls	M	8-7-61	57	2.5	429	210	42	580	
8D1	Ls	M	5-25-61	--	.1	312	50	12	260	
13M1	S,G	P1	8-7-61	57	2.5	371	60	14	328	
14A1	Sh?	M	5-25-61	55	.8	390	16	18	140	
14K1	Sh?	M	5-25-61	--	2.0	351	13	12	288	
16C1	Sh?	M	5-25-61	56	.3	293	45	8	256	
18P1	Sh?	M	5-25-61	54	1.0	303	54	10	268	
21P1	Sh?	M	5-25-61	--	1.0	390	12	8	304	
25P1	Sh?	M	5-25-61	--	.1	459	15	14	244	
27J1	Ls	M	5-25-61	--	.8	342	20	8	248	
33M1	Ls	M	8-7-61	54	.1	454	62	12	244	
19/4W-1N1	Ls	M	8-9-61	--	1.5	512	15	6	384	
3L1	G	P1	5-26-61	56	2.5	410	36	8	320	
4K1	G	P1	5-26-61	56	1.0	307	78	12	292	
4M1	G	P1	5-26-61	54	1.0	366	60	18	340	
5D1	Ls	M	5-26-61	55	.1	634	35	38	16	
7J1	Ls	M	6-13-61	--	7.5	614	15	32	144	
9P1	G	P1	5-26-61	--	1.0	293	17	8	236	
15Q1	Sh	M	6-14-61	56	.1	434	53	20	252	
15R1	Sh	M	6-14-61	55	.8	439	63	12	356	
16J1	G	P1	5-26-61	--	1.0	293	12	8	228	
19R2	Sh	M	6-13-61	57	.5	317	68	12	296	
20G1	Sh	M	6-13-61	--	---	317	60	12	296	
20K1	Sh	M	6-13-61	56	1.0	342	41	10	284	
24A1	Sh	M	6-14-61	55	.3	420	20	8	324	

Table 6.--Field chemical analyses of water from wells, Montgomery Co., Ind.--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)	Remarks
19/4W-25G1	G	P1	6-14-61	56	0.5	361	90	12	352	
28G1	Sh	M	6-14-61	--	.5	395	80	16	364	
28H1	G	P1	8- 8-61	56	.2	361	95	10	364	
28H2	G	P1	6-14-61	--	.5	386	58	28	384	
30G1	G	P1	8- 9-61	--	1.0	434	53	10	396	
30J2	Sh	M	6-13-61	--	1.0	425	36	12	356	
33M1	G	P1	6-13-61	57	2.0	332	95	18	352	
34E11	G	P1	6-13-61	56	.2	459	25	16	380	
34J1	G	P1	6-13-61	--	.1	405	29	22	368	
34K1	G	P1	6-14-61	57	1.5	439	14	8	332	
34M1	G	P1	6-13-61	--	.2	332	70	20	328	
34N4	G	P1	6-14-61	--	7.5	459	13	8	328	
35G2	S,G	P1	8- 7-61	54	1.5	464	10	6	320	
35H1	S,G	P1	8- 9-61	--	1.5	468	11	12	220	
35N1	S,G	P1	6-14-61	56	4.0	459	17	6	352	
35R1	Sh	M	6-14-61	57	.1	736	43	96	20	
36M2	S,G	P1	6-14-61	56	.5	429	15	10	212	
19/5W- 3P1	Sh	M	8-16-61	57	.1	386	15	4	320	
11P1	Sh	M	8-16-61	--	.5	464	13	4	304	
13R1	G	P1	7-19-61	57	3.0	395	85	8	404	
14L1	Sh	M	7-19-61	56	2.0	493	16	6	376	
18Q1	G	P1	6-23-61	--	1.0	273	50	6	244	
19G1	G	P1	6-22-61	--	7.5	259	145	30	336	
19L1	G	P1	6-22-61	--	.5	312	80	10	292	
20B1	Sh	M	6-22-61	56	2.0	371	145	18	424	
23A1	G	P1	7-19-61	56	1.0	410	12	14	136	
24D1	G	P1	7-19-61	57	.3	473	95	18	460	
25L2	Sh	M	8-16-61	56	.4	386	105	16	380	
26E1	G	P1	7-18-61	56	.1	400	46	24	400	
26E4	G	P1	7-18-61	57	1.0	381	50	8	348	
26J2	Sh	M	7-19-61	55	.3	400	53	4	344	
26J3	S,G	P1	8-16-61	57	.3	400	38	4	344	
27R1	G	P1	7-18-61	56	.1	351	38	10	308	
30R1	Sh	M	6-22-61	--	.5	405	15	6	300	
31G1	Sh	M	6-22-61	57	1.0	366	14	6	240	
31J1	G	P1	6-22-61	56	3.0	366	14	6	276	
31R1	G	P1	6-22-61	--	3.0	332	15	6	244	

Table 6.--Field chemical analyses of water from wells, Montgomery Co., Ind.--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)	Remarks
19/5W-32B1	G	P1	6-22-61	--	2.0	288	68	20	284	
34A2	G	P1	8-16-61	--	.5	439	21	16	344	
35A1	Sh	M	7-19-61	57	1.0	395	50	10	340	
36B1	Sh	M	7-18-61	56	2.5	439	57	12	388	
19/6W- 1R1	G	P1	6-23-61	57	2.5	415	24	4	324	
2D1	G	P	6-22-61	--	1.5	317	62	12	268	
2E1	Sh?	M	6-22-61	55	2.0	386	13	6	276	
11G1	G	P1	6-22-61	55	1.0	283	90	8	320	
11P1	Sh	M	6-22-61	57	2.0	278	13	6	192	
12J1	Sh	M	8-16-61	54	2.0	429	37	8	356	
13H1	Sh	M	6-22-61	--	.3	317	14	6	240	
14D1	Sh	M	7-18-61	56	.3	420	22	8	316	
15J1	G	P1	6-22-61	--	1.0	293	27	4	228	
15M1	Sh	M	6-22-61	56	.2	376	18	6	280	
24C1	Sh	M	6-22-61	56	1.0	356	34	6	288	
25M1	Ls	M	8-16-61	57	.8	459	16	6	340	
27M1	Ls	M	6-22-61	55	3.0	429	13	6	288	
34P1	G	P1	6-22-61	56	.1	264	240	78	640	
35J1	Sh?	M	6-22-61	--	2.0	351	17	4	256	
36R1	G	P1	6-22-61	56	.1	342	12	12	216	
20/3W- 1J1	S,G	P1	8- 8-61	55	2.0	420	21	6	316	
1K1	S,G	P1	8- 8-61	57	2.0	405	33	8	328	
5G1	G	P1	9-24-58	53	>7.5	551	---	8	480	
7G1	Sh?	M	9-24-58	63	.1	390	---	8	348	
8B1	G	P1	9-24-58	56	.4	498	---	4	332	
10B1	G	P1	5-26-61	56	2.0	322	19	12	244	
10C1	Sh	M	5-26-61	56	2.0	317	18	10	224	
11J1	G	P1	8- 8-61	54	1.5	444	14	8	312	
11R1	G	P1	8- 8-61	53	1.5	434	15	6	312	
12N1	G	P1	5-26-61	54	3.0	303	45	12	268	
16P1	----	----	5-24-61	--	.1	356	24	10	284	
19K1	G	P1	8- 8-61	57	2.0	395	63	10	356	
22A1	Ls?	M	5-25-61	--	1.5	307	15	8	224	
22D1	Sh	M	5-25-61	--	1.5	337	12	10	248	
22L1	Ls	M	8- 8-61	57	.3	478	16	14	304	
26C1	Ls	M	8- 7-61	55	1.5	464	100	28	456	
31F1	Sh	M	9-24-58	63	>7.5	581	---	22	444	
35H1	Ls,Sh	M	8- 7-61	53	.3	429	67	24	268	

Table 6.--Field chemical analyses of water from wells, Montgomery Co., Ind.--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)	Remarks	
20/4W-	1L1	Sh?	M	9-24-58	58	1.0	464	---	10	280	
	1L2	G	P1	8- 8-61	57	1.5	444	13	10	292	
	5E1	G	P1	9-26-58	64	.5	337	---	2	276	
	5R1	G	P1	9-25-58	56	1.0	478	---	10	280	
	5R2	G	P1	9-25-58	59	2.0	429	---	2	280	
	6P1	Sh?	M	9-26-58	54	1.0	420	---	4	200	
	9A1	G	P1	8- 8-61	52	1.0	410	48	8	360	
	10B1	G	P1	9-24-58	60	5.0	566	---	16	508	
	11Q1	Ls	M	10-15-58	55	2.5	503	---	6	328	
	17N1	G	P1	9-26-58	--	2.0	454	---	6	380	
	17N2	Sh?	M	9-26-58	--	.3	586	---	70	24	
	19P1	G	P1	8- 8-61	54	1.5	346	100	12	360	
	21D1	Ls	M	8- 8-61	--	1.0	517	12	24	204	
	21L1	S,G	P1	10-15-58	--	3.0	483	---	5	372	
	23C1	Ls	M	9-24-58	56	.8	464	---	6	288	
	27B1	G	P1	9-26-58	54	7.5	434	---	6	324	
	30M1	G	P1	9-26-58	59	3.0	498	---	6	380	
	30Q1	Sh?	M	9-26-58	57	3.0	454	---	2	280	
	32E1	Sh?	M	9-26-58	55	.8	429	---	4	276	
	32H1	G	P1	10-15-58	54	4.0	459	---	6	308	
	33C1	G	P1	10-15-58	60	3.0	444	---	4	372	Inflamable gas in water
	36F1	Sh?	M	10-15-58	55	.2	483	---	4	204	
20/5W-	3Q1	Sh	M	10-15-58	58	1.5	444	---	0	265	
	5H1	S,G	P1	6-21-61	56	.8	342	12	4	220	
	9F1	S,G	P1	6-21-61	54	1.5	303	20	6	188	
	10B1	S,G	P1	6-21-61	55	3.0	400	14	6	276	
	11R1	S,G	P1	6-21-61	--	1.5	327	14	4	232	
	12R1	G	P1	10-15-58	54	3.0	444	---	0	236	
	13B1	G	P1	10-15-58	58	1.5	434	---	4	216	
	21N1	Sh?	M	8-16-61	54	.1	405	9	4	248	
	22M1	Sh	M	10-15-58	59	.5	434	---	8	208	
	24K1	Sh	M	10-15-58	52	1.0	498	---	3	300	
	25Q1	Sh	M	10-15-58	62	1.0	483	---	2	280	Gas in water
	25R1	G	P1	10-15-58	58	1.0	508	---	2	372	
	26E1	Sh	M	8-16-61	54	.5	449	10	4	120	
	26H1	Sh	M	6-21-61	57	.5	317	10	4	196	
	27D1	Sh	M	8-16-61	54	.3	439	10	6	284	

Table 6.--Field chemical analyses of water from wells, Montgomery Co., Ind.--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)	Remarks
20/5W-27H1	Sh	M	10-15-58	58	0.3	468	---	4	148	
28H2	G	P1	10-15-58	--	.1	478	---	22	548	
29G1	S,G	P1	8-16-61	--	2.0	449	54	10	376	
29M1	Sh?	M	8-16-61	54	.3	503	12	6	356	
29N1	Sh	M	6-21-61	56	.1	493	15	10	364	
30C1	G	P1	6-22-61	--	1.0	288	47	6	244	
31J1	Sh?	M	8-16-61	57	.5	508	13	6	380	
31K1	G	P1	8-16-61	55	1.5	483	12	4	344	
32M1	Sh?	M	8-16-61	56	1.2	551	11	6	384	
33P1	Sh	M	8-16-61	55	1.8	366	11	8	280	
34L1	Sh	M	6-23-61	55	1.5	415	14	6	280	
35D1	G	P1	8-16-61	57	1.8	551	17	10	424	
36M1	Sh	M	10-15-58	56	1.0	508	---	10	344	
20/6W- 1K1	G	P1	6-21-61	--	.5	293	10	6	208	
2R1	G	P1	6-21-61	55	2.0	264	49	8	224	
24P1	G	P1	6-22-61	--	3.0	473	95	16	444	
25H1	Sh	M	6-22-61	--	.3	317	58	8	276	
34E1	G	P1	6-22-61	--	1.0	312	13	6	200	