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GROUND-WATER RESOURCES OF WEST-CENTRAL INDIANA

Preliminary Report: Vigo County

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GROUND-WATER RESOURCES OF WEST-CENTRAL INDIANA

Preliminary Report: Vigo County

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

ABSTRACT

Vigo County, in west-central Indiana, has an area of about 415 square miles. Consolidated rocks of Pennsylvanian age and unconsolidated rocks of Pleistocene age are the sources of ground water for domestic, stock, and industrial supplies and one municipal supply. Wells in rocks of Pennsylvanian age range from about 30 to 470 feet in depth and yields range from less than 1 to about 60 gpm, with some dry holes reported. Wells in sand and gravel of Pleistocene age range from about 15 to 175 feet in depth and yields range from less than 1 to about 2,700 gpm. Field chemical analyses of water from these sources show that the chemical quality differs greatly. Waters from aquifers of Pennsylvanian age have an average hardness of 170 ppm, average chloride content of 50 ppm, and an average sulfate content of 60 ppm. Waters from aquifers of Pleistocene age have an average hardness of 340 ppm, average chloride content of 30 ppm, and an average sulfate content of 95 ppm. Locally either the iron, sulfate, or chloride content will exceed the recommended standards of the U. S. Public Health Service (1946) for drinking water.

This preliminary report contains tabulated records of about 1,127 wells and other drilled holes giving information about well construction, water levels, conditions of occurrence and characteristics of the water-bearing material; selected logs for about 684 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 2 springs giving information about geologic source, yield and temperature of the water; results for 269 field chemical analyses of water from wells, 2 field chemical analyses of water from springs, and 24 field chemical analyses of water from streams, giving the hardness 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 base map of Vigo 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, and areas of high chloride and sulfate content.

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 fourth 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 geology and ground-water conditions 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 general direction of A. N. Sayre and P. E. LaMoreaux, successive chiefs of the Ground Water Branch of the U. S. Geological Survey, and under the immediate supervision of F. H. Klaer and C. M. Roberts, successive district geologists of the Ground Water Branch for Indiana.

Location and Areal Extent

Vigo County is located in the west-central portion of Indiana (Fig. 1). The county is roughly rectangular in shape and has an area of about 415 square miles. It is bounded on the north by Vermillion and Parke Counties, on the east by Clay County, on the south by Sullivan County, and on the west by the State of Illinois.

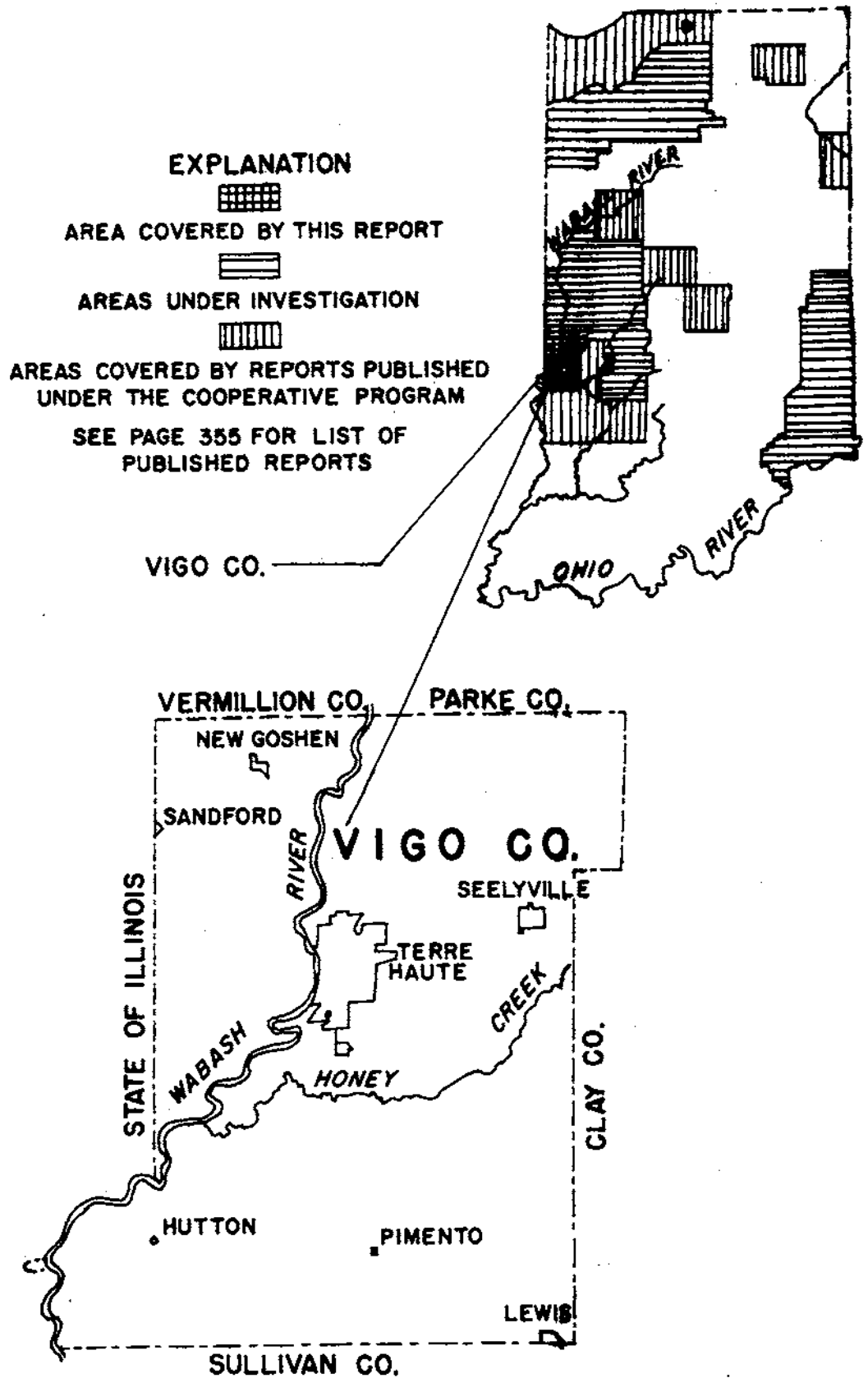


FIGURE 1.--Map of Indiana showing area covered by this report, areas under investigation, and areas covered by reports published under the cooperative program.

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 12/9W-33M1, the part preceding the hyphen indicates that the well is in T. 12 N., R. 9 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 12/9W-33M1 is the first well listed in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 33, T. 12 N., R. 9 W.

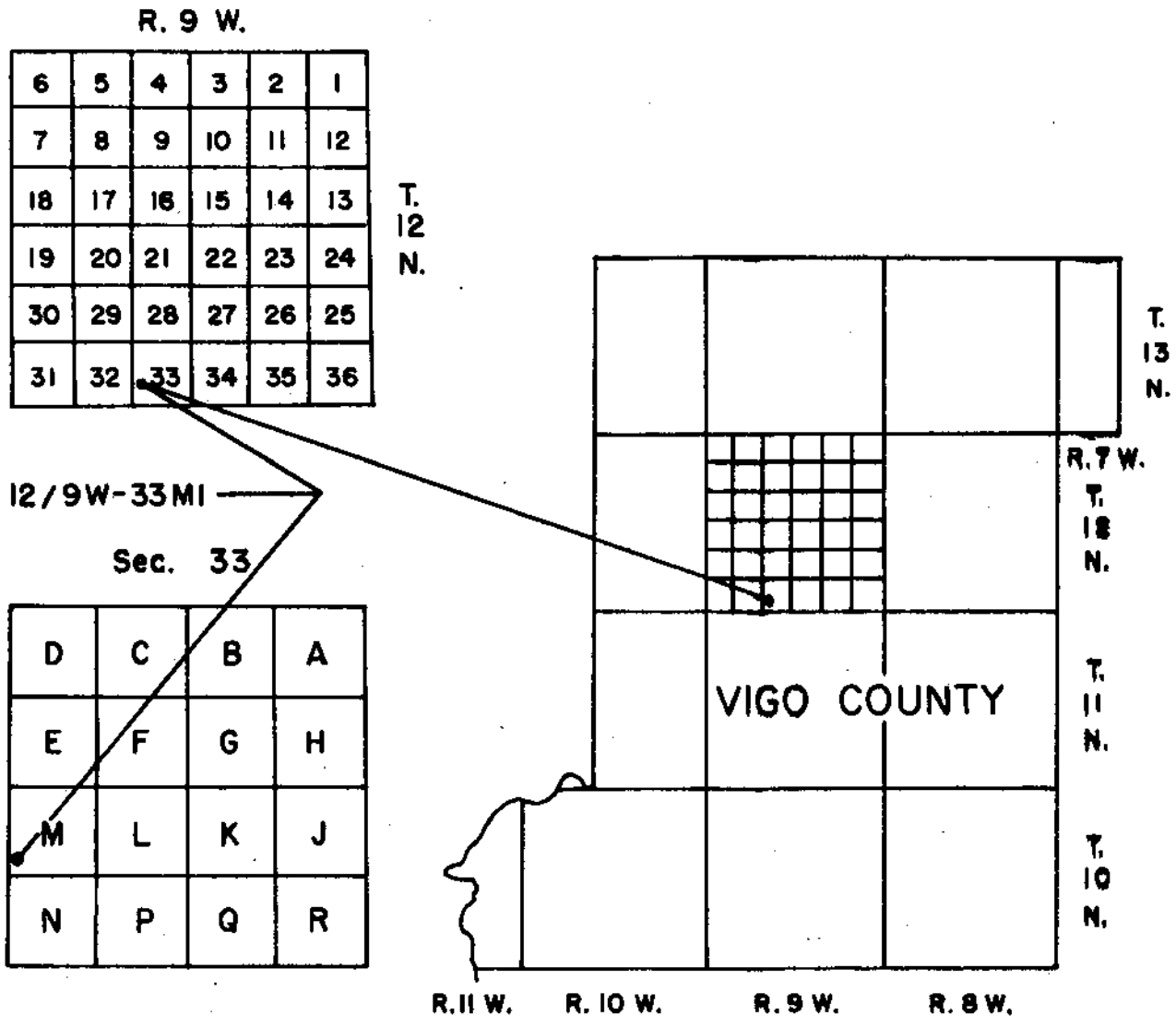


Figure 2.-- Sketch showing well-numbering system

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 2 and 3.

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

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. Any discrepancy between the driller's location and the location shown in the plat book was corrected. The well location was then checked in the field and its location plotted on the appropriate U. S. Geological Survey 7½-minute topographic quadrangle map. The locations given on the records of test holes, oil or gas exploration holes, and wells from other reports were accepted without further verification.

Plate 1 shows the location of water wells, oil wells, test holes, drain 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 2. 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 3. Basic data for the springs are summarized in table 5.

Samples of water were collected at the time the well and spring sites were visited and from the streams during a period of low flow. These water samples were analyzed in the field for alkalinity (expressed as bicarbonate) and chloride content and hardness of water by standard titration methods. Sulfate was determined by a turbidimetric method using a colorimeter when concentrations were below 100 ppm (parts per million) and by a standard titration method when concentrations exceeded 100 ppm. The total iron content was determined at the well site immediately after collection by the bipyridine method by comparison with standard color ampules having known iron concentrations. The results of the field chemical analyses (tables 4, 5, and 6) were used to select sites for collecting larger 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 7 contains water-level measurements obtained from these wells. The data from these observation wells show the effect of seasonal and longer term variations of the ground-water level. Three of the observation

DATA COLLECTION AND PROCESSING--CONTINUED

wells show the effect of pumping of nearby wells and four show fluctuations of water level caused by the Wabash River.

GENERAL GEOLOGY AND SOURCES OF GROUND WATER

The oldest consolidated rocks underlying Vigo County that are important as ground-water sources are of Early and Middle Pennsylvanian age. The rocks of Pennsylvanian age consist chiefly of sandstone, sandy shale, and shale. Limestone and coal make up a minor part of the rock units in this sequence. The limestone is of little economic importance but the coal deposits are of major economic importance.

Rocks of Pennsylvanian age crop out throughout the county. Sandstones are the principal source of ground water from the consolidated rocks and are extensively used for domestic and stock supplies, and a few small industrial supplies. Well depths range from about 30 to 470 feet with the average depth being about 155 feet. Yields from these wells range from less than 1 to about 60 gpm with some dry holes reported.

Very little water is obtained from rocks of Pennsylvanian age west of the Wabash River. Drillers' reports indicate that majority of wells drilled into rock there are either dry or yield salt water at depths of 200 feet or less.

Unconsolidated glacial deposits of Pleistocene age overlie the consolidated rocks of Pennsylvanian age. Along the Wabash River and some of its tributaries, large deposits of glaciofluvial sand and gravel were laid down during the time the Wabash valley was a major discharge channel for melt water from glaciers farther to the north. These deposits are an important source of ground water for domestic, stock, industrial, and irrigation supplies and are the source used for one public supply in the county. Well depths range from about 35 to 175 feet, the average depth being about 80 feet. Yields from these wells range from about 3 to 2,700 gpm. Properly constructed wells in these deposits will yield large quantities of water.

Glaciofluvial sand and gravel are associated with clayey and sandy-clay till in the northern half of the county and to a lesser extent in the southern half of the county. The sand and gravel were deposited as lenses or thin stringers on bedrock and overlain by till or interbedded with till. There is a close relationship between the pre-glacial bedrock channels and the sand and gravel deposits. In many areas these deposits are or with proper development could be additional sources of ground water for domestic, stock, and small industrial supplies, and locally for even larger supplies. In the pre-glacial upland areas the glacial deposits consist chiefly of a clayey to sandy-clay till and do not yield water freely.

Lake sediments are present in several small areas in southern Vigo County along the tributaries of the Wabash River and the Eel River. These sediments are deposited on bedrock or on glaciofluvial sand and gravel. These lacustrine deposits, consisting chiefly of silt and clay, do not yield water freely but in areas where interbedded sand and gravel lenses are present they may be potential sources for domestic and stock supplies.

Wells tapping the sand and gravel aquifers associated with till and lacustrine deposits range in depth from about 15 to 175 feet and have yields ranging from less than 1 to about 200 gpm. At the present time many of the wells drilled in these areas go through the sand and gravel deposits and are completed in the Pennsylvanian bedrock. An exception is the area west of the Wabash River where the majority of the successful water wells are completed in sand and gravel lenses and stringers associated with till.

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

Plate 2 shows availability of ground water in the consolidated and unconsolidated rocks underlying the county. Plate 3 shows the distribution of hardness of water in the consolidated and unconsolidated rocks and areas where the chloride or sulfate content exceeds the limits for these constituents as recommended by the U. S. Public Health Service for public supplies (1946).

The quality of water varies greatly in hardness and in chemical content in the aquifers of Pennsylvanian age and to a lesser extent in aquifers of Pleistocene age. The range of hardness, and of chloride and sulfate content of water from aquifers of Pennsylvanian and Pleistocene age are shown below.

Pennsylvanian

	Hardness ppm	Chloride ppm	Sulfate ppm
Maximum	920	1,120	855
Minimum	1	2	5
Average <u>1/</u>	165	50	60

Pleistocene

Maximum <u>2/</u>	890	665	785
Minimum	150	Near 0	10
Average	340	30	95

1/ Averages do not include those analyses with chloride content over 1,000 ppm, which were a small percentage of the total analyses.

2/ High hardness and high chloride and sulfate content of water due to contamination.

CONFINED AND UNCONFINED CONDITIONS

In Vigo 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 saturated water-bearing material (aquifer) is overlain directly by relatively impervious material, and the water in the well bore, which is confined under pressure in the aquifers, will rise above the bottom of the impervious material. Under unconfined conditions, the water-bearing material (aquifer) is overlain directly by permeable unsaturated material and is in hydraulic continuity with the atmosphere, hence, the water does not rise above the level at which it is encountered. Thus, under confined conditions a fluctuation of water level represents a response to a pressure change in the aquifer, whereas, under unconfined conditions a fluctuation of water level actually represents a change in the amount of water in storage.

TYPES OF WELLS

Drilled wells are the principal type of water wells used in Vigo County. However, a number of driven and jetted wells are used for domestic and stock supplies. A small number of dug wells are still in use and occasionally one is constructed. A few wells have been drilled by the rotary or reverse-rotary methods. Most water wells are 6-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. When the water-bearing material is consolidated rock, the well casing generally is driven a few inches to several feet into rock, and the well finished as an open hole in rock. When the water-bearing material is sand and gravel, the well casing is driven into the water-bearing zone and either 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 Vigo County the majority of the industrial, air conditioning, and irrigation wells drilled in sand and gravel are equipped with wire-wound or shutter-type well screens--a few are finished with slotted or perforated casing. Most domestic and stock wells that have been made in sand and gravel do not use a screen but are finished with an open-end casing or the casing is slotted or perforated. The use of wire-wound, gauze-wrapped, or gauze washer well points or screens in domestic and stock wells is becoming more widespread and probably the majority of wells drilled in recent years have been finished with screens. Table 1 relates the grain-size in inches and millimeters to the slot and gauze size of screens commonly used in water wells.

The jetted well is constructed by forcing water under pressure out of a hollow-rod or small diameter drill pipe that is fitted with a jetting bit. As the material is washed out of the hole ahead of the casing, the casing is driven down the hole. After the water-bearing material is encountered the well is generally finished with a well-point screen set in the water-bearing material below the bottom of the casing.

Table 1.--Grain size and equivalent screen openings

Grain size: After Wentworth (1922).
 Equivalent screen openings: From
 commercial catalogs for water-
 well supplies.

Slot size: In thousandths (0.001) of
 an inch.
 Gauze size: Number of wire strands
 per lineal inch.

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

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 three 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, drain holes, and holes drilled for purposes other than water supply are drilled by either the cable-tool or rotary method in Vigo County.

SUMMARY

Preliminary evaluation of the basic data shows that adequate quantities of ground water are generally available for domestic and stock use, and in some places for small industrial and small public supplies from the rocks of Pennsylvanian age. In the sand and gravel of Pleistocene age, along the Wabash River, ground water is available in adequate quantities for domestic and stock use and locally for industrial, irrigation, and public supplies. These sand and gravel deposits are the source of all large-yield wells in Vigo County. Another source of domestic and stock supplies and possibly small industrial supplies are the sand and gravel deposits interbedded with and overlain by till in the preglacial bedrock channels. There may be interbedded sand and gravel in the lake sediments that might yield ground water in adequate quantities for domestic and stock supplies.

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

RECORDS

The records of about 1,127 water wells and holes drilled for purposes other than water supply are given in table 2. The table gives information about well construction, water levels, yields, and drawdowns, thickness and characteristics 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 3 contains the selected logs of about 684 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 269 analyses of well waters are given in table 4. These chemical analyses were determined in the field by the U. S. Geological Survey. This table gives information about geologic source, temperature, concentration in ppm (parts per million) of iron, alkalinity (expressed as bicarbonate), sulfate, chloride, and hardness of water. The U. S. Public Health Service (1946) drinking-water standards state that the chemical constituents should not exceed the following concentrations: iron and manganese (together), 0.3 ppm; sulfate, 250 ppm; chloride, 250 ppm. No standards have been established for hardness of water; however, the following classification is generally used: 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.

The records of 2 springs are given in table 5. This table gives information about geologic sources, yield, use, temperature of water, and the results of field chemical analyses.

Table 6 gives the results of 24 field chemical analyses of water from streams in Vigo County with other data.

Water levels in 6 observation wells in Vigo County are given in Table 7. The water levels in four of these wells were obtained by recording gages and in the other two wells by measurements made with an engineer's steel tape. Daily high water levels are given for observation wells equipped with recording gages and periodic water levels are given for the observation wells which were measured manually. The locations of these observation wells are shown on plate 1.

GLOSSARY OF DRILLERS' TERMS

- Bone coal.--Black, carbonaceous shale or a clayey or shaly coal.
- Boots.--Any material, usually a shale which when drilled adheres to the bit and stem of the drilling tools.
- Bottoms.--Underclay or fire clay generally found beneath a coal; the bottom or floor of a mine entry.
- Chip slate.--Very hard shale which breaks into small thin, angular pieces.
- Concretion.--Nodules of various shapes and sizes composed of clay and iron stone or iron pyrite.
- Drift.--Any rock material, such as boulders, till, gravel, sand, or clay, transported by a glacier and deposited by or from the 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.
- Jack.--Black, carbonaceous shale or a clayey or shaly coal.
- Pan.--Clay of glacial origin generally contains small pebbles and occasional boulders.
- Pasty.--Smooth, sticky, when used with a rock term.
- Rash.--Coal mixed with clay, slate, or other foreign substance.
- Red rock.--Red, soft to hard, sometimes sandy shale.
- Shell.--Thin and usually hard layer or rock.
- Shelly.--See shell; rock which splits in thin pieces parallel with the bedding surface; a fossiliferous rock.
- Slate.--Hard shale which splits into thin platy fragments, usually black in color.
- Smut.--Soft coal, containing much earthy matter.
- Soapstone.--Hard, smooth, clay or shale, slippery to the touch.
- Softpan.--Hard impervious layer, composed chiefly of clay, partially cemented by relative insoluble materials, becomes plastic when mixed with water.
- Steel band.--Reportedly a hard brown dolomitic fresh-water limestone. May also be used in place of the term iron band, which is generally applied to a black or brown, hard silicate or iron carbonate rock which occurs as a zone of concretions from pebble to boulder size or in thin beds.
- Sulfur.--Thin band or layer of pyrite in a coal seam.
- Wash.--Water laid glacial material consisting of sand, silt, and clay with a high percentage of twigs, leaves, and other organic material.

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Table 2.--Records of wells, Vigo County, Indiana

Well number: See text for description of well-numbering system.
 Altitude: Altitude of land-surface datum from topographic map.
 Type of well: Dr, drilled; Dd, dug; J, jetted.
 Finish: Gp, gravel pack; Oe, open end; Oh, open hole; P, perforated casing; S, screen.
 Material: C, coal; F, fine clay; G, gravel; Ls, limestone; S, sand; Sd-ls, sandy limestone; Sd-sh, sandy shale; Sd-sl, sandy silt; Sh, shale; Ss, sandstone; T, till.
 Geologic age: Pl, Pleistocene; P, Pennsylvanian; D, Devonian.
 Ground-water occurrence: C, confined (artesian); U, unconfined (water table).
 Water level: In feet below land-surface datum on date of completion of well, except as noted in remarks. F, flowing well.
 Use: A, air conditioning; D, domestic; De, destroyed; Dh, drain hole drilled into mine opening; I, industrial; Ir, irrigation; N, not used; O, observation; Og, oil or gas; P, public supply; S, stock; T, test.
 Remarks: A, field chemical analysis in Table 4; E, electric log on file; L, log in Table 3; La, log on file; Lam, log from memory on file; Lm, log from memory in Table 3; S, sample study in Table 3; W, water level measurements in Table 7; Dd, drawdown; Gpm, gallons per minute.

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter (inches)	Depth of casing (feet)	Flash	Water-bearing zone				Yield (gpm)	Use	Remarks	
										Depth to top (feet)	Thickness (feet)	Material	Geologic age				Ground-water occurrence
10/8W-1C1	C. Fisher	B. Ringo	7-10-57	580	Dr	177	6 1/2	87	Oh	120	57	Ss	P	C	35	D	L, A; Dd 65 ft pumping at 13 gpm
2K1	C. Fox	H. Ellis	11-30-53	560	Dr	194	6	100	Oh	141	46	Ss	P	C	17	D	L; Dd 73 ft pumping at 20 gpm
2N1	W. C. Unger	Spaunhower & Sons	2-57	570	Dr	200	6	140	Oh	155	45	Ss	P	C	50	D	L
3C1	E. Legston	L. Adkins	6-48	580	Dr	170	6	125	Oh	120	50	Ss	P	C	15	D	L
3R1	G. Jones	H. Ellis	-----	555	Dr	115	6	62	Oh	61.5	47.5	Ss	P	C	7	D, S	L
4A1	W. A. Ashley	Spaunhower & Sons	8-55	600	Dr	155	6	84	Oh	105	50	Ss	P	C	67	D	L
4D1	G. Cesinger	H. Ellis	11- 9-53	600	Dr	200	6	78	Oh	102	98	Ss	P	C	63	D	L
4F1	O. Wilson	M. Biecard	-----	600	Dr	254	8	95	Oh	179	74	Ss	P	C	68	D	L, A
4J1	E. A. Brinton	-----do-----	-----	595	Dr	220	10	20	Oh	180	40	Ss	P	C	55	D	L, A
4M1	G. Gibson	-----do-----	-----	600	Dr	246	10	89	Oh	107	43	Ss	P	C	65	D	La
4M2	-----do-----	H. Ellis	-----	600	Dr	276	8	107	Oh	174	72	Ss	P	C	78	D	L, A
4N1	P. Armstrong	M. Biecard	-----	600	Dr	185	8	113	Oh	191	85	Ss	P	C	70	D, S	L, A
5A1	G. Fredericks	H. Ellis	-----	590	Dr	200	10	128	Oh	127.5	47.5	Ss	P	C	6	D, S	L, A
5B1	C. Orman	-----do-----	8-17-54	590	Dr	301	6	122	Oh	121	77	Ss	P	C	7	D	La; cement plug set 197 - 200 ft
5M1	P. Thompson	R. C. Page	2-58	585	Dr	293	6	171	Oh	253	48	Ss	P	C	72	D, S	L, A; Dd 78 ft bailing at 15 gpm
5M2	H. Kirts	V. Eaton	6- 1-56	580	Dr	98	6	203	Oh	38	33	Sh	P	C	60	D	La (partial)
5P1	W. Burdette	L. Adkins	11-15-45	595	Dr	285	6	52	P, Oh	246	30	Ss	P	C	14	D	L, A
6D1	D. Beile	R. C. Page	11-25-57	560	Dr	276	6	155	Oh	246	30	Ss	P	C	40	D	La (partial), A
6F1	W. Schomer	L. Schell	-----	570	Dr	105	8	31	Oh	-----	-----	-----	P	C	7	D	Lam
6M1	C. Paub	R. C. Page	1-58	570	Dr	306	8	146	Oh	-----	-----	-----	P	C	57	D	L
6R1	R. Lehar	H. Ellis	8- 1-54	590	Dr	336	5	168	P, Oh	-----	-----	-----	P	C	138	D	L
7F1	R. Genung	H. R. Knox	10-43	575	Dr	151	6	270	Oh	116	3	C	P	C	50	D	L
7G1	G. Parker	R. C. Page	8-58	575	Dr	250	8	47	P	129	7	Ls, Ss	P	C	90	D, S	L, A
8P1	A. Baker	-----do-----	2-16-57	510	Dr	1,216	5	250	-----	-----	-----	-----	P	C	1	D, S	L, A
8Q1	L. Singhurst	H. R. Knox	9-44	505	Dr	234	7	40	Oh	224	24	Ss	P	C	-----	Og	L
9B1	W. French	H. Ellis	8-25-46	580	Dr	224	8	100	Oh	187	30	Ss	P	C	4	D, S	L, A
9P1	P. Singhurst	L. Adkins	-----	591	Dr	214	6	150	Oh	212	18	Ss	P	C	1	D	L, A
10B1	G. Ray	H. Ellis	10- 2-50	580	Dr	150	8	23	Oh	130	81	Ss	P	C	-----	D, S	L, A
10C1	S. Lemmons	M. Biecard	-----	570	Dr	150	7	92	Oh	92	48	Ss	P	C	41	D, S	L, A
10G2	E. Selvia	-----do-----	-----	575	Dr	150	6	101	Oh	101	39	Ss	P	C	42	D, S	L, A
10E1	Maume Collieries Co.	H. Ellis	10-54	570	Dr	150	7	85	Oh	85	55	Ss	P	C	4	D, S	L, A
11J1	Dr. McIntosh	H. Ellis	11-19-54	550	Dr	160	6	120	Oh	95	41	Ss	P	C	46	I	L, A
12H1	V. Cesinger	L. Adkins	4-16-42	550	Dr	43	-----	42	Oh	120	26	Ss	P	C	15	D, S	L
				550	Dr	43	-----	42	Oh	41.5	1.5	S	P1	-----	-----	D, S	L

Table 2. --Records of wells, Vigo County, Indiana--Continued

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter (inches)	Depth of casing (feet)	Finish	Water-bearing zone				Yield (gpm)	Remarks	
										Depth to top (feet)	Thickness (feet)	Material	Geologic age			Ground-water occurrence
10/SW-12N1	P. D. Haas	L. Adkins	6-16-48	555	Dr	300	10	49	Oh							
13M1	F. Cotton	-----do-----	1942	560	Dr	112	6	63	Oh							D, S L, A
14A1	Dr. McIntosh	Spainhower & Sons	4-56	550	Dr	60	8	23	Oh							D, S L
15F1	B. Ray	L. Adkins	6-11-43	590	Dr	150	6	33	Oh							D, S L
16H1	R. Thomas	H. Ellis	11-12-54	580	Dr	186	6	153	Oh							D, S L
16H2	Blackhawk Parsonage	R. C. Page	10-58	585	Dr	182	7	135	Oh							D, S L
16J1	Blackhawk School	M. Biecard	-----	600	Dr	204	8	100	Oh							D, S L
16K1	Blackhawk Fire House	M. Sutton	8-8-57	600	Dr	202	8	156	Oh							P La
16M1	S. Scamehorn	H. Ellis	11-21-53	590	Dr	225	6	174	Oh							L La
16M2	-----do-----	H. R. Knox	10-23-40	590	Dr	160	6	42	Oh							N La
18N1	R. Archer	-----do-----	12-45	605	Dr	85	8	17	Oh							D, S L, A
19J1	S. Beard	-----do-----	9-17-54	620	Dr	228	8	23	P, Oh							D, S L, A
20E1	A. Lamey	L. Adkins	12-14-43	635	Dr	294	5	93	Oh							D, S L
20E2	-----do-----	K. R. Knox	11-44	635	Dr	105	8	30	Oh							N L
20N1	J. Payne	-----do-----	5-29-54	635	Dr	132	7	35	Oh							L, A
21A1	W. Stewart	H. Ellis	10-54	595	Dr	205	6	147	Oh							D, S L, A
21C1	R. Tyson	L. Adkins	4-22-43	610	Dr	220	6	85	Oh							D, S L
21J1	S. J. Dalton	-----do-----	2-45	580	Dr	221	6	140	Oh							D, S L, A
23R1	F. Eldridge	V. Hayden	10-22-59	600	Dr	160	7	102	Oh							D, S L, A
24C1	G. McLaughlin	H. R. Knox	7-47	555	Dr	108	7	27	Oh							D, S L, A
25N1	W. E. Brown	V. Hayden	1955	610	Dr	194	8	18	Oh							D, S L, A
26R1	W. D. Cotten	Spainhower & Sons	1-10-54	620	Dr	210	8	25	Oh							D, S L
27R1	K. Davies	H. R. Knox	7-54	620	Dr	169	7	28	Oh							D, S L, A
28A1	V. Hix	L. Adkins	9-3-41	580	Dr	185	6	66	Oh							D, S L, A
28A2	-----do-----	-----do-----	-----	580	Dr	182	6	64	Oh							D, S L, A
28C1	H. Jeffers	-----do-----	5-25-46	580	Dr	205	8	15	Oh							D, S L, A
31F1	M. Johnson - Monon Coal Co.	C. E. Crick	5-18-53	605	Dr	2,113	-----	67	-----							Og K. Kuhn 2; L. (partial)
31M1	-----do-----	-----do-----	1-53	583	Dr	500	-----	-----	-----							Og K. Kuhn 1; L. (partial)
33G1	B. Beard	-----do-----	6-4-37	565	Dr	1,900	-----	-----	-----							Og Keller Development Co. 1; L. (partial)
34P1	G. Lessman	L. Adkins	6-10-46	580	Dr	275	8	73	Oh							D, S L
35J1	L. Richey	H. Ellis	10-26-53	610	Dr	240	6	120	Oh							D, S L
35N1	G. Lessman	L. Adkins	8-6-45	580	Dr	155	6	108	Oh							D, S L, A
36F1	P. E. Morse	H. Ellis	10-20-53	605	Dr	190	6	86	Oh							D, S L, A
36J1	C. Scamehorn	H. R. Knox	12-46	575	Dr	156	7	22	Oh							D, S L, A
36M1	M. Campbell	-----do-----	9-2-50	600	Dr	132	7	24	Oh							D La
36M2	M. Stout	-----do-----	11-22-49	610	Dr	130	7	24	Oh							D L
36M3	R. B. Matlock	-----do-----	6-46	590	Dr	125	7	22	Oh							D La
36R1	R. Harbaugh	L. Adkins	7-15-48	610	Dr	151	6	20	Oh							P L, A
36S2	Pierson-Allen Lumber Co.	H. R. Knox	5-46	600	Dr	127	7	20	Oh							P L, A
36P1	C. V. Bedwell	-----do-----	8-26-53	580	Dr	122	7	52	Oh							D L, A
36R1	R. Wheaton	V. Hayden	6-23-59	610	Dr	75	8	23	P							D, S L, A
10/9W-1M1	W. L. Wells	R. C. Page	9-58	600	Dr	270	10	19	P, Oh							D L, A
2A1	E. Black	-----do-----	12-11-57	570	Dr	270	8	108	Oh							D L, A
2B1	J. R. Metz	H. R. Knox	8-44	580	Dr	139	6	45	Oh							N La

Table 2.---Records of wells, Vigo County, Indiana---Continued

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter (inches)	Depth of casing (feet)	Finish	Water-bearing zone					Water level (feet)	Yield (gpm)	Remarks
										Depth to top (feet)	Thickness (feet)	Material	Geologic age	Ground-water occurrence			
10/9N-14Q2	Mr. Ogborn	H. R. Knox	9-23-54	600	Dr	130	7	40	Oh	102	20	Ss				L	
13F1	R. P. Nottter	do	11-21-52	560	Dr	105	7	31	Oh	60	25	Ss				D, S	
13J1	R. Quist	do	5-54	580	Dr	86	7	---	Oh	42	36	Ss				L, A	
13J2	V. Sparks	S. L. Howell	9-25-54	580	Dr	51	6	18	Oh	20	2.5	La, A				La, A	
13J3	do	H. R. Knox	9-25-54	580	Dr	71	7	27	Oh	42	26	Ss				N	
15J4	T. French	do	6-30-51	580	Dr	75	8	28	Oh	35	13	Ss				La, A	
15K1	H. Kriescher	do	1-46	565	Dr	105	8	43	Oh	55	12	Ss				L, A	
16C1	M. E. Paddock	L. Adkins	---	540	Dr	155	---	---	Oh	75	34	Ss				D, S	
16E1	L. R. Randolph	H. R. Knox	4-44	540	Dr	150	6	35	Oh	124	6	Ss				L	
17J1	G. and E. Moore	do	8-46	540	Dr	150	8	43(?)	Oh	60	14	Ss				D, S	
17N1	G. Ward	do	8-48	540	Dr	148	7	40	Oh	92	22	Ss				L	
18P1	G. Wadsworth	V. Eaton	7-20-53	540	Dr	55	6	55	P	---	---	S				L, A	
20D1	R. Butts	E. Benson	---	540	Dr	104	---	---	---	---	---	Sd-sh				L, A	
20J1	B. Owen	H. R. Knox	10-45	565	Dr	110	8	46	Oh	56	4	Sd-sh				D, S	
21A1	H. Boyll	do	8-24-44	565	Dr	175	8	46	Oh, P	72	19	Ss				L	
21L1	K. Hayhurst	V. Hayden	---	590	Dr	150	8	40	P	131	4	C				D, S	
21N1	R. Wagner	H. R. Knox	7-17-52	565	Dr	127	7	52	Oh	103	44	Ss				L	
21Q1	Mr. Fidler	do	9-24-52	565	Dr	125	6	40	Oh	52	21	Sd-sh				L	
22E1	K. Payne	do	9-12-52	560	Dr	65	7	50	Oh	52	27	Ss				L	
22E2	M. Boyll	do	1-20-54	565	Dr	70	6	53	Oh	82	30	Ss				L	
22M1	C. Zirkle	do	1-46	530	Dr	93	8	53	Oh	53	17	Ss				La	
23J1	W. Gard	do	9-52	610	Dr	130	7	21	Oh	52	30	Ss				L, A	
23M1	C. A. Swanagan	do	10-46	580	Dr	147	10	24	Oh	88	29	Ss				L	
24M1	R. Payton	do	8-24-53	580	Dr	88	7	22	Oh	60	35	Ss				L	
25N1	W. Moore	J. Straker	6-29-48	585	Dr	2,200	---	---	Oh	122	22	Ss				L	
26E1	H. Bowles	V. Hayden	---	600	Dr	1,106	7	40	Oh	77	11	Sd-sh				L, A	
26C1	R. L. Morgan	H. R. Knox	4-44	595	Dr	133	6	37	Oh	65	5	Ss				L	
26D1	J. Samanaka	L. Adkins	5-16-46	580	Dr	476	6	198	Oh	102	2	C				L	
26E1	G. and E. Brown	do	1-4-60	590	Dr	2,175	---	---	Oh	425	45	Ss				L, A	
26J1	D. E. French	H. R. Knox	10-9-52	580	Dr	1,100	7	32	Oh	63	3	C				L, A	
26J2	E. French	J. T. Pierson & R. Yaw	6-1-37	584	Dr	1,420	---	---	---	73	4	La				C. O. Ring & G. Hoffmeister 1;	
26N1	Indiana State Highway Department	L. Schell	1958	580	Dr	93	6	88	Oh, P	50	15	Ss				L, A	
26P1	R. Wood	H. R. Knox	9-43	570	Dr	80	6	42	Oh	88	5	Ss				L	
26Q1	K. Lutz	do	6-18-48	565	Dr	95	7	31	Oh	62	18	Ss, La				D, S	
28E1	G. Clouse	do	3-20-54	560	Dr	138	6	138	P	33	41	Sh, C				L, A	

10/9W-28H1	C. Sparks	V. Hayden	560	110	8	53	P	85	21	Sd-sh	P	---	---	D,S	L, A
29A1	L. V. Watson	-----do-----	560	65	7	110								S	La (partial), A
30R1	W. Zimmerman	L. Adkins	7-26-26	285	6	76	Oh							D,S	L
31P1	H. S. Ring and D. C. Hull	-----do-----	4-23-56	1,268										Og	C. B. Mansfield 1 community; L (partial)
32F1	Mr. Rankle	U. & E. Drilling Co.	1-3-56	1,386	6	42	P, Oh	148	40	Ss				Og	C. B. Mansfield 1; L (partial)
32M1	W. Lloyd	H. R. Knox	2-17-53	232	8	114		201	29	Ss				D,S	L
32N1	L. Forbes	-----do-----	8-47	185	8	42	Oh	142	28	Ss				D,S	L, A
33A1	W. Pounds	-----do-----	9-20-52	120	6	40	Oh	100	10	Ss				D,S	L, A
33B1	R. Vangilder	-----do-----	8-46	135	7	71	Oh	120	11	Ss				D,S	L, A
33C2	F. Vangilder	F. Hayden	-----do-----	555	113	7	23							T	La
33F1	L. Hunt	S. L. Howell	10-6-59	160	6	45	Oh							N	La
33H1	O. French	V. Hayden	-----do-----	555	65	8	65	26	39	S	Pl			S	La, A
33L1	W. Bovenschulte	H. R. Knox	1-46	223	8	30	Oh	90	23	Ss	P			D,S	L, A
34E1	P. Monko	-----do-----	6-14-54	89	10	25	Oh	135	9	Ss	P			D	L, A
34N1	E. Cronwell	-----do-----	10-8-53	111	7	29	Oh	27	33	Ss	P			D	L, A
34N2	P. Fidler	V. Hayden	-----do-----	530	61	8	61	32	8	S, G	Pl			D,S	L, A
34E1	E. Gallington	H. R. Knox	6-10-50	130	7	48	Oh	102	28	Ss	P			D	L
34E2	D. Hayworth	-----do-----	2-11-48	138	8	50	Oh	112	15	Ss	P			D	L
35N1	J. Turner	-----do-----	8-47	106	8	42	Oh	150	40	Ss	P			D	La
36B1	E. Moore	-----do-----	10-45	50	5	45	Oh	45	5	S, G	Pl			D,S	L
36M1	T. McDonald	-----do-----	6-22-50	117	7	40	Oh	48	7	Ss	P			D,S	L
10/10W-1M1	R. Harkness	Sutherland Bros.	12-2-47	136	10	25	Oh	110	26	Ss	P			D	L
1M2	J. Harkness	-----do-----	11-24-47	520	5	60	Oh	65	3	G	Pl			D	L
2E1	G. R. Capp	V. Hayden	11-6-59	97	7	26	P	60	37	Ss	P			D	L, A
2P1	W. McKeen	R. Benson	1949	215	7	97	Oh	113	42	Ss	P			D	L
3A1	K. A. Werneke	H. R. Knox	3-44	160	6	45	Oh	107	20	Ss	P			D,S	L
3B1	S. E. Allard	M & E Drilling Co.	1-28-57	1,260				127	2	La	P			Og	C. S. Cooksey 1; La
3N1	P. Farmer	V. Hayden	4-48	65	7	60	P, Oh	30	5	G	Pl			D,S	L, A
4G1	E. Crim	Sutherland Bros.	1-13-48	39	6	39	P	12	27	S, G	Pl			D	L
4L1	T. Ferguson	-----do-----	7-18-51	55	6	55	Oe	30	25	S, G	Pl			D,S	L
8G1	P. O. Veach	Kuykendall Drilling Co.	9-15-33	1,020										Og	H. N. Gray 1; La
8Q1	R. Wilson	-----do-----	3-35	2,315										Og	Pierson and others 1;
9M1	J. E. Dent	-----do-----	11-15-53	227										Og	L (partial)
9Q1	N. M. Turner	-----do-----	5-25-39	2,129										Og	Dome Gas Co. 1; L
9R1	Mr. Laybold	V. Hayden	1947	2,146										Og	W. Wyman 1; La
10M1	O. Harlan	-----do-----	6-16-50	57	7	31	P	27	30	Sh				N	La; water level 15.4 ft 8-13-59
11P1	Mabash Western Riders, Inc.	-----do-----	5-25-39	520										N	La
11J1	B. Meyer	H. R. Knox	1947	57	5	57								N	La
12A1	Buckeye Pipe Line Co.	V. Hayden	12-23-33	470										D	La, A
16E1	C. Wilson	-----do-----	11-28-55	550										Og	Siosi Co. 1; La
16F1	L. K. Wilson	-----do-----	8-19-37	540										Og	Pierson, Yeager and others 1;
16P1	M. S. Evans	Carter Oil Co.	5-10-49	518										Og	H. L. Behm 1; L (partial)
17H1	J. C. Johnson	-----do-----	10-33	351										Og	Carter Oil Co. 1; L (partial)
20A1	E. Strwalt, heirs	-----do-----	9-8-51	497										Og	E. Zink 1; La
21A1	D. Strain	-----do-----	4-6-52	1,422										Og	Pierson, Yeager and others 1; L
21R1	C. Clester	L. Schell	7-55	520	4	101	P	92		S, G	Pl			Og	C. Sutherland 1; L (partial)
22L1	Harbamb-Harris	-----do-----	2-9-60	1,458										Og	F. B. Cline 1; La
24E1	R. Hall	V. Hayden	7-55	81	8	22	Oh							D,S	L, A
25A1	W. G. Wilson	A. W. Pieg	10-20-52	203	4	203	P	155	47	Ss	P			D	L
27N1	E. W. Dayhoff	H. R. Knox	10-10-41	198	6	42	Oh	118	8	Ss	P			D,S	L
28H1	L. Reed	-----do-----	6-8-28	1,405										Og	F. B. Cline 1; L (partial)
29H1	E. Strain	Ringo & Son	11-10-28	2,203										Og	Siosi Oil Corp. 6; La
31A1	W. Riggs	Karnes & Shafer	-----do-----	2,192										Og	Siosi Oil Corp. 7; La
31G1	-----do-----	-----do-----	4-6-52	440										Og	Siosi Oil Corp. 9; La
31H1	-----do-----	-----do-----												Og	

Table 2. --Records of wells, Vigo County, Indiana--Continued

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter (inches)	Depth of casing (feet)	Finish	Depth to top (feet)	Water-bearing zone				Water level (feet)	Yield (gpm)	Use	Remarks
											Thickness (feet)	Material	Geologic age	Ground-water occurrence				
11/8W-21W1	J. P. Jefferies and others	C. Clommens	8-14-55	572	Dr	949				62	4	Ss	P			Og	V. K. Michael 1; La	
21R1	Spencer heirs		5-39	580	Dr	1,802				86	7	Ss	P			Og	C. Robinson 1; L (partial)	
22A1	N. Hooper	Ringo & Son	5-94	580	Dr	178	6	101	Oh	152	21	Ss	P		9	D, S	L, A; Dd 116 ft bailing at 9 gpm	
22D1	R. K. Sankey	L. Adkins	6-28-48	585	Dr	89				140	8	Ss	P			D	La	
22D2	J. Meadows	do	5-3-46	560	Dr	150	6	64	Oh	183	15	Ss	P			D	L, A	
22N1	T. Sankey	do	9-7-43	590	Dr	200	6	65	Oh	183	15	Ss	P			D	L, A	
23A1	Oak Hill Cemetery	do	1924	595	Dr	132	8	45	Oh	130	22	Ss	P			P	La	
23A2	Oak Hill Church	R. C. Page	9-58	595	Dr	185	7	141	Oh	141	37	Ss	P			P	L	
23B1	J. P. Jefferies	L. Adkins	6-3-41	605	Dr	214	6	48	Oh	155	49	Ss	P			D, S	L, A	
24C1	E. J. Shepard	Ringo & Son	6-54	615	Dr	90	6	24	Oh	40	30	Ss	P		1.5	D, S	L, A	
24R1	J. Morris	M. O. Schrader	5-9-56	600	Dr	150	6	83	Oh	83	65	Ss	P		10	D	L, A	
25C1	J. Maillet	Spainhower & Sons	4-59	590	Dr	109	6	60	Oh	60	21	Ss	P		2	D	L, A	
25H1	R. Fretz	L. Adkins	9-28-53	590	Dr	140	6	80	Oh	122	14.5	Ss	P		7	D, S	L, A	
26D1	V. Thompson	do	8-7-40	590	Dr	160			Oh	37	123	Ss	P			D, S	L, A	
26R1	B. Miller	do	1944	585	Dr	163	6	69	Oh	120	43	Ss	P			D, S	L, A	
27A1	C. S. Reynolds	do	9-40	570	Dr	150	5	84	Oh	96	6	Ss	P			D, S	L, A	
27B1	Dr. Ray	do	8-22-42	590	Dr	102			Oh				P			D	L, A	
27H1	C. S. Reynolds	do	5-19-41	570	Dr	58			Oh				P			D	L, A	
28K1	R. Aten	M. Bicard		595	Dr	210	6	170	Oh	169	8	Ss	P			D	L, A	
28L1	R. Duffy	H. Ellis	7-27-54	590	Dr	240	6	198	Oh	188	20	Ss	P		17	D	L, A	
28P1	P. Lee	M. Bicard	5-8-53	590	Dr	221	6	107	Oh	163	9	Ss	P		20	D	L, A	
29Q1	B. Schepker	do		580	Dr	210	6	125	Oh	185	25	Ss	P			D	L, A	
29L1	O. L. Pickens	J. D. Dunbar	6-16-49	555	Dr	2,019			Oh	49	21	Sd-sh	P			Og	The Ohio Oil Co. 1; La	
30F1	G. Rost	Spainhower & Sons	11-3-59	555	Dr	1,032			Oh	205	111	Ss	P		4	D	L, A	
30R1	Mauve Collieries Co.	L. Adkins	11-21-57	570	Dr	180	6	96	Oh	145	35	Ss	P			Og	R. G. Lowry 2; La	
31C1	Mauve Collieries Co.	H. Ellis	12-29-57	551	Dr	1,936			Oh	167	27	Ss	P			Og	R. G. Lowry 3; La	
31F1	Sycamore Girl Scout Council, Inc.	Ringo & Son	5-16-54	550	Dr	198	6	97	Oh	187	27	Ss	P		2	P	L	
31Q1	R. Jacobs	H. Ellis	7-54	565	Dr	80	6	52	Oh	127	10	Ss	P		6	D	L, A	
31R1	E. A. Brinton	H. Ellis		570	Dr	185	6	116	Oh	153	32	Ss	P		3.5	D	L, A	
31R2	P. Clinger	R. C. Page	10-58	570	Dr	215	7	160	Oh	159	21	Ss	P		3.5	D	L, A	
32B1	C. Hamblan	H. Ellis	12-22-53	560	Dr	210	7	124	Oh	222	49	Ss	P		8	D	L, A	
32F1	A. Helton	do		610	Dr	185	8	200	Oh	168.5	30.5	Ss	P			D	L, A	
32H1	Mauve Collieries Co.	M. Bicard		570	Dr	178	6	109	Oh	135	46	Ss	P			P	L	
32N1	W. Underhill	Ringo & Son	8-19-55	570	Dr	203	8	95	Oh	189	66	Ss	P		7	D	L, A	
33F1	Mauve Collieries Co.	M. Bicard		610	Dr	1,900			Oh	188	12	Ss	P			Og	Kellar Development Co. 1; S (partial)	
33J1	B. Beard	L. Adkins	9-3-45	585	Dr	235	8	300	Oh	191	44	Ss	P			D	L, A	
34C1	W. McIntosh	C. Bressett	6-15-46	590	Dr	225	6	127	Oh	173	52	Ss	P			D, S	L	
34D1	H. Van Leer	M. Bicard		570	Dr	217	6	136	Oh	164	46	Ss	P		7	D	L, A	
34M1	S. Green	do	4-10-58	585	Dr	1,725			Oh	12	11	S	P1			Og	Echo Oil Co. 1; La	
35H1	do	do	3-21-56	566	Dr	685			Oh	110	65	Ss	P			Og	H. L. Schm 1; La	
35L1	do	do	9-53	572	Dr	1,720			Oh	121	64	Ss	P			Og	F. B. Cline 1; La	
35Q1	J. Unger	L. Adkins	1942	550	Dr	170	6	56	Oh	140	28	Ss	P			D	L, A	
35R1	E. Weddle	H. Ellis		560	Dr	240	6	62	Oh	60.5	14.5	Ss	P		1	D	L	

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)	Remarks
										Depth to top (feet)	Thickness (feet)	Material	Geologic age	Ground-water occurrence			
11/9W-10K1	J. Schoemaker	V. Eaton	5-1-55	495	Dr	58	6	59	P	54	19	S,G	Pl	C	40	L; Dd 7 ft pumping at 10 gpm	
10N1	Hole & Ferguson	McDaniel & Sons	9-57	500	Dr	70	6	70	P			S,G	Pl	U		A	
10Q1	Machine Co.		4-58	500	J	80	2	40	S	25	15	S,G	Pl	U	25	L	
10R1	Mr. Cooper	L. Schell	12-17-51	495	Dr	1,833	6	41		214	34	Ss	P			F. A. Bridge 1; L (partial)	
11C1	H. and K. Ennen		1957	540	Dr	106	6	28								L; Mine water discharge hole	
11D1	Tri-K Mining Co.	Ringo & Son	8-10-57	500	Dr	67	8	65	P	52	1	G	Pl			L; Mine water discharge hole	
11G1	J. Gullity	L. Schell	3-59	580	Dr	180	5	180	P							L	
11K1	L. E. Godchalk	H. R. Knox	3-30-54	550	Dr	105	7	60	P	85	2	C	P		.5	La	
11K2	M. Metro		6-25-54	560	Dr	304	6	105	P	93	9	Ss	P			L	
11K3	W. Talley		5-20-63	540	Dr	275	6	236	P, Oh	250	54	Ss	P			L	
11P1	Reupke Nurseries	McDaniel & Son	7-22-46	540	Dr	16	4	16	Oh	200	75	Ss	P			L, A	
11R1	W. Waller	L. Adkins	4-25-50	560	Dr	126	6	67	P, Oh	70	8	Ss	P			L	
11R2	J. Waller		4-25-50	560	Dr	126	6	67	Oh	200	75	Ss	P			L (partial)	
12C1	Mc. Pleasant Mining Corp.		4-1-44	540	Dr	171	6	16	Oh							La	
12C2			4-21-49	540	Dr	119	6	50	Oh							La	
12M1	E. Newell		4-23-47	550	Dr	280	6	221	Oh	221	59	Ss	P			L	
12B1	R. Barnhart	Sutherland Bros.	4-23-47	550	Dr	49	6	44	P	28	1	S,G	Pl			L, A	
13B2	M. Chausse	Ringo & Son	6-13-58	550	Dr	440	6	66	P	216	35	Ss	P			L	
13C1	A. Hartman	W. H. Wood	6-1-36	530	Dr	440	6	44	P	216	35	Ss	P			L	
13D1	C. Standfill	L. Adkins	10-12-48	540	Dr	90	6	90	P	420	20	Ss	P			L, A	
13P1	T. Carswell	Sutherland Bros.	4-48	540	Dr	116	6	116	P	36	6	S	Pl			L, A	
15D1	Mr. Halsted	L. Schell	8-15-57	500	Dr	76	2	76	P	92	3	S,G	Pl			La, A	
16E1	U. S. Government	McDaniel and Sons	5-10-54	490	Dr	50	2	50	S	35	41	S,G	Pl			L, A	
16E2		Layne-Northern Co., Inc	5-13-54	490	Dr	88	6	88	P	29	53	S,G	Pl			L, A	
16M1			5-8-54	490	Dr	55	6	55	P	28	23	S,G	Pl			L, A	
17A1			7-18-42	480	Dr	86	6	86	P	14	59	S,G	Pl			L, A	
17A2			10-42	480	Dr	84	18	84	Gp	18	66	S,G	Pl			L, A	
17A3	R. Kunz	V. Eaton	6-15-54	490	Dr	51	6	51	P	33	18	S,G	Pl			L, A	
17B1	U. S. Government	Layne-Northern Co., Inc	7-16-42	480	Dr	86	6	86	P	19	65	S,G	Pl			L, A	
17E1	H. Bollinger	H. R. Knox	7-10-46	485	Dr	78	6	78	Oh	30	48	S,G	Pl			L, A	
17E2	U. S. Government	Layne-Northern Co., Inc	7-4-42	480	Dr	80	6	80	P	22	57	S,G	Pl			L, A	
17G1			9-42	480	Dr	81	18	80	Gp	20	61	S,G	Pl			L, A	
17G2			7-13-42	480	Dr	88	6	88	P	23	54	S,G	Pl			L, A	
17H1			7-2-42	480	Dr	89	6	89	P	22	55	S,G	Pl			L, A	
17H2			10-23-42	480	Dr	84	50	61	Gp	22	62	S,G	Pl			L, A	
17H3			6-30-42	490	Dr	89	20	86	S	23	54	S,G	Pl			L, A	
17Q1	U. S. Government	Sutherland Bros.	6-54	480	Dr	86	20	86	S	28	58	S,G	Pl			L, A	

Well No.	Owner	Company	Date	Depth	Drill	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520	540	560	580	600	620	640	660	680	700	720	740	760	780	800	820	840	860	880	900	920	940	960	980	1000	Notes																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
11/9W-1702	U. S. Government	Layne-Northern Co., Inc.	7-3-42	480	Dr	80	106	134	160	180	206	232	258	284	310	336	362	388	414	440	466	492	518	544	570	596	622	648	674	700	726	752	778	804	830	856	882	908	934	960	986	1012	1038	1064	1090	1116	1142	1168	1194	1220	1246	1272	1298	1324	1350	1376	1402	1428	1454	1480	1506	1532	1558	1584	1610	1636	1662	1688	1714	1740	1766	1792	1818	1844	1870	1896	1922	1948	1974	2000	2026	2052	2078	2104	2130	2156	2182	2208	2234	2260	2286	2312	2338	2364	2390	2416	2442	2468	2494	2520	2546	2572	2598	2624	2650	2676	2702	2728	2754	2780	2806	2832	2858	2884	2910	2936	2962	2988	3014	3040	3066	3092	3118	3144	3170	3196	3222	3248	3274	3300	3326	3352	3378	3404	3430	3456	3482	3508	3534	3560	3586	3612	3638	3664	3690	3716	3742	3768	3794	3820	3846	3872	3898	3924	3950	3976	4002	4028	4054	4080	4106	4132	4158	4184	4210	4236	4262	4288	4314	4340	4366	4392	4418	4444	4470	4496	4522	4548	4574	4600	4626	4652	4678	4704	4730	4756	4782	4808	4834	4860	4886	4912	4938	4964	4990	5016	5042	5068	5094	5120	5146	5172	5198	5224	5250	5276	5302	5328	5354	5380	5406	5432	5458	5484	5510	5536	5562	5588	5614	5640	5666	5692	5718	5744	5770	5796	5822	5848	5874	5900	5926	5952	5978	6004	6030	6056	6082	6108	6134	6160	6186	6212	6238	6264	6290	6316	6342	6368	6394	6420	6446	6472	6498	6524	6550	6576	6602	6628	6654	6680	6706	6732	6758	6784	6810	6836	6862	6888	6914	6940	6966	6992	7018	7044	7070	7096	7122	7148	7174	7200	7226	7252	7278	7304	7330	7356	7382	7408	7434	7460	7486	7512	7538	7564	7590	7616	7642	7668	7694	7720	7746	7772	7798	7824	7850	7876	7902	7928	7954	7980	8006	8032	8058	8084	8110	8136	8162	8188	8214	8240	8266	8292	8318	8344	8370	8396	8422	8448	8474	8500	8526	8552	8578	8604	8630	8656	8682	8708	8734	8760	8786	8812	8838	8864	8890	8916	8942	8968	8994	9020	9046	9072	9098	9124	9150	9176	9202	9228	9254	9280	9306	9332	9358	9384	9410	9436	9462	9488	9514	9540	9566	9592	9618	9644	9670	9696	9722	9748	9774	9800	9826	9852	9878	9904	9930	9956	9982	10008	10034	10060	10086	10112	10138	10164	10190	10216	10242	10268	10294	10320	10346	10372	10398	10424	10450	10476	10502	10528	10554	10580	10606	10632	10658	10684	10710	10736	10762	10788	10814	10840	10866	10892	10918	10944	10970	10996	11022	11048	11074	11100	11126	11152	11178	11204	11230	11256	11282	11308	11334	11360	11386	11412	11438	11464	11490	11516	11542	11568	11594	11620	11646	11672	11698	11724	11750	11776	11802	11828	11854	11880	11906	11932	11958	11984	12010	12036	12062	12088	12114	12140	12166	12192	12218	12244	12270	12296	12322	12348	12374	12400	12426	12452	12478	12504	12530	12556	12582	12608	12634	12660	12686	12712	12738	12764	12790	12816	12842	12868	12894	12920	12946	12972	12998	13024	13050	13076	13102	13128	13154	13180	13206	13232	13258	13284	13310	13336	13362	13388	13414	13440	13466	13492	13518	13544	13570	13596	13622	13648	13674	13700	13726	13752	13778	13804	13830	13856	13882	13908	13934	13960	13986	14012	14038	14064	14090	14116	14142	14168	14194	14220	14246	14272	14298	14324	14350	14376	14402	14428	14454	14480	14506	14532	14558	14584	14610	14636	14662	14688	14714	14740	14766	14792	14818	14844	14870	14896	14922	14948	14974	15000	15026	15052	15078	15104	15130	15156	15182	15208	15234	15260	15286	15312	15338	15364	15390	15416	15442	15468	15494	15520	15546	15572	15598	15624	15650	15676	15702	15728	15754	15780	15806	15832	15858	15884	15910	15936	15962	15988	16014	16040	16066	16092	16118	16144	16170	16196	16222	16248	16274	16300	16326	16352	16378	16404	16430	16456	16482	16508	16534	16560	16586	16612	16638	16664	16690	16716	16742	16768	16794	16820	16846	16872	16898	16924	16950	16976	17002	17028	17054	17080	17106	17132	17158	17184	17210	17236	17262	17288	17314	17340	17366	17392	17418	17444	17470	17496	17522	17548	17574	17600	17626	17652	17678	17704	17730	17756	17782	17808	17834	17860	17886	17912	17938	17964	17990	18016	18042	18068	18094	18120	18146	18172	18198	18224	18250	18276	18302	18328	18354	18380	18406	18432	18458	18484	18510	18536	18562	18588	18614	18640	18666	18692	18718	18744	18770	18796	18822	18848	18874	18900	18926	18952	18978	19004	19030	19056	19082	19108	19134	19160	19186	19212	19238	19264	19290	19316	19342	19368	19394	19420	19446	19472	19498	19524	19550	19576	19602	19628	19654	19680	19706	19732	19758	19784	19810	19836	19862	19888	19914	19940	19966	19992	20018	20044	20070	20096	20122	20148	20174	20200	20226	20252	20278	20304	20330	20356	20382	20408	20434	20460	20486	20512	20538	20564	20590	20616	20642	20668	20694	20720	20746	20772	20798	20824	20850	20876	20902	20928	20954	20980	21006	21032	21058	21084	21110	21136	21162	21188	21214	21240	21266	21292	21318	21344	21370	21396	21422	21448	21474	21500	21526	21552	21578	21604	21630	21656	21682	21708	21734	21760	21786	21812	21838	21864	21890	21916	21942	21968	21994	22020	22046	22072	22098	22124	22150	22176	22202	22228	22254	22280	22306	22332	22358	22384	22410	22436	22462	22488	22514	22540	22566	22592	22618	22644	22670	22696	22722	22748	22774	22800	22826	22852	22878	22904	22930	22956	22982	23008	23034	23060	23086	23112	23138	23164	23190	23216	23242	23268	23294	23320	23346	23372	23398	23424	23450	23476	23502	23528	23554	23580	23606	23632	23658	23684	23710	23736	23762	23788	23814	23840	23866	23892	23918	23944	23970	23996	24022	24048	24074	24100	24126	24152	24178	24204	24230	24256	24282	24308	24334	24360	24386	24412	24438	24464	24490	24516	24542	24568	24594	24620	24646	24672	24698	24724	24750	24776	24802	24828	24854	24880	24906	24932	24958	24984	25010	25036	25062	25088	25114	25140	25166	25192	25218	25244	25270	25296	25322	25348	25374	25400	25426	25452	25478	25504	25530	25556	25582	25608	25634	25660	25686	25712	25738	25764	25790	25816	25842	25868	25894	25920	25946	25972	25998	26024	26050	26076	26102	26128	26154	26180	26206	26232	26258	26284	26310	26336	26362	26388	26414	26440	26466	26492	26518	26544	26570	26596	26622	26648	26674	26700	26726	26752	26778	26804	26830	26856	26882	26908	26934	26960	26986	27012	27038	27064	27090	27116	27142	27168	27194	27220	27246	27272	27298	27324	27350	27376	27402	27428	27454	27480	27506	27532	27558	27584	27610	27636	27662	27688	27714	27740	27766	27792	27818	27844	27870	27896	27922	27948	27974	28000	28026	28052	28078	28104	28130	28156	28182	28208	28234	28260	28286	28312	28338	28364	28390	28416	28442	28468	28494	28520	28546	28572	28598	28624	28650	28676	28702	28728	28754	28780	28806	28832	28858	28884	28910

Table 2.--Records of wells, Vigo County, Indiana--Continued

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter (inches)	Depth of casing (feet)	Finish	Water-bearing zone					Yield (gpm)	Water level (feet)	Remarks
										Depth to top (feet)	Thickness (feet)	Material	Geologic age	Ground-water occurrence			
11/9W-36R2	R. E. Wellman	H. Ellis	---	590	Dr	378	---	118	Oh	---	61.5	---	---	---	---	---	L, A
11/10W-2H1	Mr. Gallington	L. Schell	1958	470	Dr	92	6	100	P	---	---	---	---	---	---	---	L, A
2H1	H. A. Brown	---do---	---	530	Dr	89	6	89	Oh	---	83	6	---	---	---	---	L, A
4G1	J. Hays, Jr.	Mingo & Son	6-27-57	550	Dr	99	6	99	Oh	---	84	15	---	---	---	---	L, A; Dd 10 ft pumping at 20 gpm
4H1	W. L. Hoggatt	V. Savon	5-8-54	543	Dr	99	6	99	P	---	86	14	---	---	---	---	L, A; Screen, 2 ft of 3-in dia, 60 slot
4R1	Mrs. Bieker	Smith Bros.	6-4-58	540	Dr	100	4	100	S	---	---	---	---	---	---	---	L, A; Dd 60 ft after 3 hr pumping at 20 gpm
9L1	H. Doollittle	Mingo & Son	6-57	530	Dr	100	6	---	P	---	95	5	---	---	---	---	L, A; Dd 60 ft after 3 hr pumping at 20 gpm
9K1	D. W. Morris	L. D. Lockard	10-12-39	510	Dr	105	5	105	---	---	65.5	9.5	---	---	---	---	L, A; Dd 60 ft after 3 hr pumping at 20 gpm
9L1	Mr. Buzan	U & E Drilling Co.	11-20-55	546	Dr	1,265	---	---	---	---	100	30	---	---	---	---	C. E. Mansfield 1; La
10D1	Pennsylvania Railroad	Layne-Northern Co., Inc.	12-21-30	540	Dr	37	6	---	---	---	---	---	---	---	---	---	L, A
10G1	---do---	---do---	12-15-50	540	Dr	35	6	---	---	---	---	---	---	---	---	---	L, A
14D1	Public Service Co. of Indiana	W. H. Wood	---	468	Dr	23	---	---	---	---	---	---	---	---	---	---	L, A
15H1	Mr. Bell	---do---	11-14-55	484	Dr	1,185	---	---	---	---	---	---	---	---	---	---	C. B. Mansfield 1; L (partial)
22J1	L. Hahan	H. R. Knox	12-43	475	Dr	41	6	41	Oh	---	32	9	---	---	---	---	L, A
23B1	U. S. Government	Layne-Northern Co., Inc.	6-22-42	475	Dr	109	---	---	---	---	17	90	---	---	---	---	L, A
23N1	S. Whitlock	H. R. Knox	7-42	470	Dr	35	6	35	Oh	---	28	7	---	---	---	---	L, A; Dd 0.5 ft balling at 20 gpm
24L1	U. S. Government	V. Hayden	1946	---	---	64	6	64	Oh	---	10	74	---	---	---	---	L, A; Well deepened
25C1	J. S. Frances	Layne-Northern Co., Inc.	6-25-42	460	Dr	87	8	44	Oh	---	20	18	---	---	---	---	L, A
25C2	I. Morgan	V. Hayden	1946	475	Dr	44	8	44	Oh	---	59	3	---	---	---	---	L, A
25C2	I. Morgan	H. R. Knox	5-45	475	Dr	90	12	20	Oh	---	72	18	---	---	---	---	L, A
25E1	B. L. Myles	---do---	8-43	480	Dr	85	8	20	Oh	---	67	2	---	---	---	---	L, A
25E2	C. Kruzan	---do---	9-43	480	Dr	88	6	24	Oh	---	75	10	---	---	---	---	L, A
25E2	D. A. Mays	V. Hayden	1946	480	Dr	93	8	23	Oh	---	23	34	---	---	---	---	L, A
25E4	P. Hannum	---do---	1946	480	Dr	99	8	18	Oh	---	63	2	---	---	---	---	L, A
25E5	R. Sens	H. R. Knox	7-17-51	480	Dr	82	5	31	P, Oh	---	75	7	---	---	---	---	L, A
25E6	S. Roush	Sutherland Bros.	7-56	480	Dr	205	8	19	Oh	---	196	4	---	---	---	---	L, A (partial)
25E7	J. D. Harlan	H. R. Knox	9-43	480	Dr	98	6	24	Oh	---	62	2	---	---	---	---	L, A
25E8	H. Sons	---do---	3-24-43	480	Dr	73	6	20	Oh	---	19	41	---	---	---	---	L, A
25E9	P. Hannum	---do---	7-4-42	485	Dr	80	6	21	Oh	---	68	2	---	---	---	---	L, A
25F1	H. Waterman	---do---	8-43	480	Dr	97	8	22	Oh	---	65	1.5	---	---	---	---	L, A
25E2	T. Howard	V. Hayden	1946	480	Dr	95	8	19	Oh	---	78	19	---	---	---	---	L, A
25E3	C. Harper	H. R. Knox	9-49	480	Dr	53	8	15	Oh	---	35	15	---	---	---	---	L, A
25E4	W. Waterman	H. R. Knox	8-49	480	Dr	92	6	18	Oh	---	18	30	---	---	---	---	L, A
25E5	H. Martin	V. Hayden	3-54	480	Dr	67	8	26	Oh	---	---	---	---	---	---	---	L, A
25E6	R. Veatch	V. Hayden	1955	485	Dr	65	8	22	Oh	---	---	---	---	---	---	---	L, A
25E7	H. L. Hurst	---do---	8-25-53	485	Dr	91	8	24	Oh	---	59	2	---	---	---	---	L, A
25E8	R. L. Hurst	H. R. Knox	7-14-42	485	Dr	73	6	24	Oh	---	61	37	---	---	---	---	L, A
25E8	G. Smith	---do---	7-14-42	485	Dr	73	6	24	Oh	---	61	37	---	---	---	---	L, A
25E9	H. L. Hurst	---do---	7-11-42	485	Dr	75	6	18	Oh	---	25	33	---	---	---	---	L, A
25H1	H. Harlan	---do---	9-2-41	480	Dr	35	6	35	Oh	---	62	3	---	---	---	---	L, A
25H2	---do---	---do---	9-2-41	480	Dr	37	6	31	Oh	---	7	27	---	---	---	---	L, A

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter (inches)	Depth of casing (feet)	Finish	Water-bearing zone					Water level (feet)	Yield (gpm)	Remarks
										Depth to top (feet)	Thickness (feet)	Material	Geologic age	Ground-water occurrence			
12/ 39-1711	Rose Ploytechnic Inst.																
1881	R. Pease	Sutherland Bros.	8-22	340	Dr	79	6	87	Oh	35	2	S	Pl	C	62	16	La
1882	F. Jacob	L. Adkins	3-51	370	Dr	87	6	99	P	81	18	S,G	Pl	C	---	---	L
1883	R. Gough	V. Eaton	6-24-45	570	Dr	180	6	98	S	---	---	S,G	P(?)	---	---	---	La (partial)
1884	A. C. Sheldon	H. R. Knox	5-9-42	515	Dr	98	6	153	Oh	---	---	S,G	Pl	C	77	---	L, A: Screen, 6-in dia
1885	Mr. McFall	H. R. Knox	8-12-40	560	Dr	217	6	140	Oh	221	4	C	P	C	---	---	L
1886	H. J. Adams	G. Brooks	1941	560	Dr	263	6	265	Oh	295	29	Ss	P	C	70	---	L
1887	G. J. Adams	M. Ricard	---	560	Dr	320	6	82	P	69	11	S,G	Pl	C	7	---	L
1941	R. Young	Sutherland Bros.	4-47	550	Dr	82	6	80	Oh	80	2	Ss	P	C	---	---	L
1981	Mrs. Martin	Ringo & Son	6-24-40	370	Dr	108	6	61	Oh	106	2	C,F	P	C	36	6	L
2181	Mr. Freeman	---	---	575	Dr	116	6	90	Oh	---	---	C,F	P	C	---	---	L
2182	E. Hatbee	L. Adkins	3-26-45	575	Dr	90	6	90	Oh	35	45	Ss	P	C	17	4	L
2183	H. Chamberlin	Ringo & Son	10-55	580	Dr	80	6	25	Oh	---	---	---	---	---	---	---	L
2201	R. E. McPherson	L. Adkins	4-6-40	570	Dr	90	6	40	Oh	---	---	---	---	---	---	---	L
2202	C. Valentine	L. Adkins	10-16-42	580	Dr	175	6	35	Oh	97	2	C	P	C	30	4.5	L, A
2401	H. Butts	Ringo & Son	8-2-55	605	Dr	117	6	30	Oh	33	10	Sd-sh	P	C	13	10	L, A
2481	T. Jeffers, Sr.	---	12-54	600	Dr	61	6	50	Oh	50	5	C	P	C	---	---	L, A: Dd 15 ft bailing at 10 gpm
2482	T. Jeffers, Jr.	---	5-55	605	Dr	60	6	41	Oh	43	10	Ss	P	C	3	5	L, A
2483	H. Largo	---	9-17-56	580	Dr	52	6	61	S	52	9	S,G	Pl	C	4	4	L, A
2491	R. Gard	---	1-55	590	Dr	61	6	52	Oh	49	2	S,G	Pl	C	25	20	L, A: Screen, 6.5 ft of 6-in dia
2501	F. Dickerson	---	3-55	585	Dr	52	6	170	Oh	46	6	S,G	Pl	C	17	8	L, A: Dd 4 ft bailing at 8 gpm
2502	F. Bell	L. Adkins	5-19-45	580	Dr	410	6	52	Oh	---	---	---	---	---	---	---	L, A
2601	Traux Tracer Coal Co.	L. Adkins	10-21-53	592	Dr	824	6	330	---	---	---	Ss	P	---	---	---	L, A: Dd 15 ft bailing at 10 gpm
2602	J. Trevarthton	Ringo & Son	4-55	590	Dr	95	6	46	P, Oh	35	2	G	Pl	C	7	5	L
2603	L. Gibson	---	5-55	590	Dr	40	6	40	P	21	2	S,G	Pl	C	5	---	L
2604	L. Pratt	---	3-25-59	570	Dr	80	6	39	Oh	45	20	Sd-sh	P	C	28	---	L, A
2605	---	L. Adkins	7-20-40	575	Dr	118	6	114	Oh	145	5	Sd-sh	P	C	---	---	L, A
2606	---	Campbell Bros.	---	575	Dr	158	6	52	Oh	---	---	---	---	---	---	---	L, A
2607	C. Felling	Ringo & Son	8-26-55	565	Dr	87	6	59	Oh	58	26	Ss	P	C	32	15	L, A: Dd 28 ft bailing at 15 gpm
2801	City of Terre Haute	---	3-8-40	580	Dr	84	7	124	Oh	121	3.5	S	Pl	C	43	10	L, A: Dd 10 ft bailing at 10 gpm
2802	Texas Gas Transmission Co.	---	6-29-42	585	Dr	124	7	83	Oh	---	---	---	---	---	---	---	L, A: Dd 10 ft bailing at 10 gpm
2881	City of Terre Haute	L. Adkins	7-16-41	575	Dr	83	6	45	S	72	11	S,G	Pl	---	---	---	L, A: Screen, 6 ft of 5-in dia
2882	J. Fry	---	8-13-44	560	Dr	125	6	50	P	13	10	S	Pl	---	---	---	L, A
2883	E. Saakley	---	4-9-45	570	Dr	80	6	35	Oh	42	8	S,G	Pl	---	---	---	L, A
2884	J. C. Zimmerman	---	3-22-45	570	Dr	90	6	35	Oh	---	---	---	---	---	---	---	L, A
2885	J. Gilfel	---	6-25-44	560	Dr	80	6	17	Oh	46	4	S	Pl	C	2	---	L, A: "dry hole"
2886	R. Baur	Sutherland Bros.	7-12-47	570	Dr	80	6	70	P	60	10	S,G	Pl	C	---	---	L, A: Observation well Vigo 3
2887	J. C. Auld	---	10-25-47	568	Dr	17	6	61	P	40	21	G	Pl	---	---	---	L, A
2888	D. Zant	L. Adkins	---	550	Dr	61	7	50	P	48	12	S,G	Pl	C	30	20	La; Dd 12 ft after 1 hr pumping at 20 gpm
2889	A. D. Rowland	V. Hayden	9-9-59	560	Dr	60	5	60	P	---	---	---	---	---	---	---	L, A
2890	J. Rockwood	Ringo & Son	8-27-49	575	Dr	166	6	90	Oh	---	---	---	---	---	---	---	La; Screen, 6.5 ft of 4-in dia
3081	Eastside Drive-In Theatre	W. Laughlin	10-57	575	Dr	79	8	79	S	56	23	S,G	Pl	---	---	---	L, A: Well backfilled with gravel to 50 ft
3082	---	Sutherland Bros.	5-16-46	560	Dr	61	8	48	P	48	7.5	S,G	Pl	C	28	15	La; Screen, 5.5 ft of 5 1/2-in dia; Dd 8 ft pumping at 15 gpm
3083	A. Hulman	L. Adkins	---	560	Dr	48	6	48	S	40	8	S,G	Pl	C	25	15	La; Screen, 5.5 ft of 5 1/2-in dia; Dd 10 ft pumping at 15 gpm
3101	R. Farr	Ringo & Son	10-54	550	Dr	48	6	50	S	41	9	S,G	Pl	C	26	20	La; Screen, 6.5 ft of 4-in dia
3102	---	---	---	550	Dr	51	6	51	S	43	8	S,G	Pl	C	25	15	La; Screen, 5.5 ft of 5 1/2-in dia; Dd 10 ft pumping at 15 gpm
3103	G. Ley	---	11-54	560	Dr	51	6	51	S	---	---	---	---	---	---	---	L, A

12/ 8W-31B1	R. Fell	10-55	560	Dr	72	6	72	Oe	70	2	S,G	PI	C	27	4.5	D	L, A
31J1	H. Oldham	2-56	560	Dr	45	6	45	P	13	30	S,G	PI	C	5	10	D	La
31J2	M. Farr	11-54	560	Dr	97	6	97	S	89	8	S,G	PI	C	37	20	D	L; Screen, 6 ft of 5 1/2-in dia Dd 10 ft pumping at 20 gpm
31R1	Mr. Froderman	10-1-58	560	Dr	43	4	43	P	---	---	S,G	PI	C	9	10	D	L, A
32D1	I. Joseph	11-54	570	Dr	53	6	42	Oh	70	20	S,G	PI	C	17	10	D	L, A
32D1	E. Farr	12-10-55	560	Dr	90	6	90	Oe	---	---	S,G	PI	C	25	20	D	L, A; Dd 7 ft pumping at 20 gpm
32D2	B. Pinkston	---	560	Dr	48	8	48	P	38	10	G	PI	C	24	20	D	L
32E1	O. B. Dillbone	11-54	555	Dr	88	6	88	S	82	4	S,G	PI	C	---	---	D	L, A; Screen, 5 ft of 5 1/2-in dia; Dd 36 ft pumping at 20 gpm
32N1	K. Shults	10-55	560	Dr	53	6	53	S	41	12	S,G	PI	C	13	25	D,S	L, A; Screen, 8 ft of 5 1/2-in dia; Dd 15 ft pumping at 25 gpm
32R1	H. Smith	1-21-44	565	Dr	80	4	80	P	77	2	G	PI	C	---	---	D	L
32R2	W. Shults	---	575	Dr	93	8	93	Oe	90	3	S,G	PI	C	15	20	D	La
34B1	H. Stephen	9-55	565	Dr	97	6	62	Oh	65	26	Ss	P	C	8	6	D	L, A
34H1	Mr. Egnew	1-3-46	580	Dr	174	10	125	---	---	---	---	---	---	---	---	D	L, A; Drilled into old mine workings
34H2	Pyramid Coal Corp.	---	580	Dr	156	16	157	---	---	---	---	---	---	---	---	N	La; Mine water discharge hole
34R1	I. Taylor	---	570	Dr	50	---	---	---	---	---	---	---	---	---	---	N	La; Mine water discharge hole
35C1	Pyramid Coal Corp.	11-45	580	Dr	130	4	95	---	---	---	---	---	---	---	---	N	L; Mine water discharge hole
36B1	Ayrshire Collieries Corp.	10-10-47	580	Dr	40	---	---	---	---	---	---	---	---	---	---	De	La
12/ 9W-1M1	Bituminous Materials Corp.	1954	500	Dn	42	2	42	S	22	20	S,G	PI	U	22	---	P	La
1N1	The Visking Corp.	5-29-46	500	Dr	120	6	---	---	30	90	S,G	PI	U	30	---	T	La
1N2	---	6-27-46	500	Dr	120	6	---	---	30	90	S,G	PI	U	30	---	T	La
1N3	---	6-5-46	500	Dr	120	12	120	S	30	90	S,G	PI	U	30	350	I	L; Screen, 20 ft of 10-in dia, no. 55 slot; Dd 11.5 ft pumping at 350 gpm
1N4	---	7-5-46	500	Dr	120	12	119	S	30	90	S,G	PI	U	30	350	I	La; Screen, 20 ft of 10-in dia, no. 55 slot; Dd 11.5 ft pumping 350 gpm
2C1	Winstow Government Standard Scale Works	---	495	Dr	65	4	65	---	---	---	S,G	PI	---	---	---	I	La; Screen, 2.5 ft of 2 1/2-in dia, no. 30 slot
2C2	D. B. Snyder	10-22-59	495	J	50	2 1/2	50	S	25	25	S,G	PI	U	25	20	D	La; Screen, 2.5 ft of 2 1/2-in dia, no. 30 slot
2F1	V. W. Griffin	4-28-47	495	Dr	50	7	50	P	31	19	S,G	PI	U	31	---	D	A
2F2	W. Powell	3-19-47	495	Dr	52	6	52	P	31	21	S,G	PI	U	31	---	D	A
2G1	E. Heck	3-20-58	495	Dn	48	2	48	S	35	13	S,G	PI	U	35	10	D	L; Screen, 2 ft of 2-in dia, no. 20 slot
2L1	F. Rittman	5-28-55	585	Dr	585	---	---	---	60	59	S,G	PI	---	---	---	Og	M. D. McIvin 1; L (partial)
2M1	C. Purcell	11-15-53	494	Dr	1,524	---	---	---	284	21	Ss	P	---	---	---	Og	J. G. Beard 1; La
3A1	V. Wiley	---	515	J	73	2	73	S	23	50	S,G	PI	U	23	---	D	La; Screen, 3 ft of 1 1/2-in dia, no. 10 slot
3A2	C. F. Wood	3-10-60	520	J	90	2	90	S	48	42	S,G	PI	U	48	7	D	L, A; Screen, 3 ft of 1 1/2-in dia, no. 50 slot
3B1	B. Nevins	3-31-47	520	Dr	82	7	82	Oe	---	---	S,G	PI	---	---	---	D	L
3E2	E. Adams	5-10-47	520	Dr	92	4	92	P	---	---	S,G	PI	---	---	---	N	La
3D1	Saxton Mine	8-4-45	470	Dr	153	2	---	---	---	---	S,G	PI	---	---	---	T	La
3G1	A. Stephens	9-18-59	520	J	87	2 1/2	87	S	46	41	S,G	PI	U	46	8	D	L; Screen, 3 ft of 1 1/2-in dia, Dd 3 ft after 4 hr pumping at 8 gpm
3P1	Wabash Sand & Gravel Co.	12-20-47	490	Dr	55	6	55	P	34	21	S,G	PI	U	34	---	I	L
4B1	Saxton Mine	12-18-25	460	Dr	157	2	---	---	12	106	S,G	PI	---	---	---	T	L
4E1	A. H. Brocksmit	4-11-42	464	Dr	170	---	---	---	---	---	---	---	---	---	---	T	L
4F1	---	5-20-42	467	Dr	175	---	---	---	---	---	---	---	---	---	---	T	L
4K1	---	8-22-35	459	Dr	146	2	---	---	20	84.6	S,G	PI	---	---	---	T	L
4M1	---	6-22-42	464	Dr	161	---	---	---	---	---	---	---	---	---	---	T	L
4Q1	J. P. Smith	3-47	490	Dr	63	6	63	P	32	31	S,G	PI	U	32	---	T	L
4Q2	Saxton Mine	6-2-42	467	Dr	163	---	---	---	---	---	S,G	PI	U	23	---	D	L, A; Screen, 2 ft of 4-in dia, no. 25 slot
4R1	S. Weinbrecht	11-57	495	Dr	64	4	64	S	23	41	S,G	PI	U	23	---	D	L, A
5E1	M. Nemeyer	10-22-45	565	Dr	250	---	---	---	---	---	S	PI	---	---	---	N	La
5E2	---	9-10-45	560	Dr	170	6	70	P	---	---	---	---	---	---	---	N	La
5G1	Saxton Mine	11-12-46	517	Dr	176	---	---	---	---	---	---	---	---	---	---	T	L
5H1	A. H. Brocksmit	---	496	Dr	239	---	---	---	---	---	---	---	---	---	---	T	L
5J1	---	6-26-42	469	Dr	195	---	---	---	34	12	Ss	P	---	---	---	T	L
5P1	J. Dennis	9-18-45	485	Dr	155	---	---	---	145	10	Sh	P	---	---	---	De	L; "Salt water"
5P2	---	10-3-45	485	Dr	25	8	12	Oh	---	---	---	P	---	---	---	De	L; "Dry hole"
6H1	M. Nemeyer	10-22-46	560	Dr	200	6	131	Oh	---	---	---	P	---	---	---	De	L; "Dry hole"

Table 2. --Records of wells, Vigo County, Indiana--Continued.

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter (inches)	Depth of casing (feet)	Finish	Water-bearing zone					Water level (feet)	Yield (gpm)	Use	Remarks
										Depth to top (feet)	Thickness (feet)	Material	Geologic age	Ground-water occurrence				
12/ 9W- 6M1	Sisters of St. Francis	Sutherland Bros.	1956	600	Dr	101												
7D1	P. Kerstines	L. Adkins	10-23-48	575	Dr	74		58	P									L; Well backfilled to 58 ft
8K1	C. Hatch	do	8- 6-49	460	Dr	112	6	75	Oh									L; "Salt water"
8N1	D. Hicks	do	10-31-45	480	Dr	45	8	32	Oh									L, A
9A1	W. Dietrich	Sutherland Bros.	3-21-47	500	Dr	63	7	63	P									L
9H1	J. M. Stoker	L. Adkins	8-49	495	Dr	66		66	P									L
10D1	Mr. Andrews	Sutherland Bros.	5-13-47	500	Dr	59	6	59	P									A
10E1	Smith Gardens	W. H. Wood	1942	495	Dr	89	8	89	P									A; Screen, 3 ft of 2-in dia, no. 60 slot
11A1	Mr. Bosc	F. E. Larrabee	12-29-59	500	Dn	55	2	55	S									Screen, 3.5 ft of 1 1/4-in dia, no. 25 slot
11G1	M. Pepsak	Smith Bros.	1-18-60	500	J	55	2	55	S									Screen, 20 ft of 1 1/4-in dia, 10 ft no. 80 slot, 10 ft no. 100 slot
11L1	New York Central Railroad	W. H. Wood	1942	500	Dr	100	12	100	S									Screen, 20 ft of 12-in dia
11L2	do	A. D. Cook	1928	500	Dr	94	12	94	S									Screen, 20 ft of 12-in dia
11L3	do	W. H. Wood	1937	500	Dr	94	12	94	S									Screen, 20 ft of 12-in dia, no. 80 slot
13C1	Miken Homes, Inc.	Smith Bros.	9-22-59	505	J	47	2 1/2	47	S									Screen, 2.5 ft of 2 1/4-in dia, no. 30 slot
13D1	W. Decker	do	9-15-59	505	J	50	2	50	S									Screen, 3.5 ft of 1 1/4-in dia, no. 25 slot
13F1	Miken Homes, Inc.	do	9-21-59	500	J	48	2 1/2	48	S									Screen, 2.5 ft of 2 1/4-in dia, no. 30 slot
13F2	J. Hoffman	do	9-12-59	505	J	50	2	50	S									Screen, 3.5 ft of 1 1/4-in dia, no. 12 slot
13K1	L. Wallis	L. Adkins	7-13-44	505	Dr	41		41	P									L
13P1	Quaker Maid Co.	W. H. Wood	1945	510	Dr	73	12	73	S									L; Screen, 21 ft of 12-in dia; Dd 9 ft pumping at 340 gpm
14E1	Gwin Bros. Pattern Shop	do	1925	500	Dn	40	1 1/2	40	S									Screen, 10 ft of 12-in dia; Dd 17 ft pumping at 480 gpm
14E1	Highland Steel Corp.	do	1925	500	Dr	83	12	83	S									Screen, 12 ft of 12-in dia; Dd 17 ft pumping at 480 gpm
14E2	do	do		500	Dr	83	12	83	S									Screen, 12 ft of 8-in, no. 60 slot
15A1	Wabash Fibre Box Co.	L. Adkins	1954	500	Dr	85	8	85	S									Screen, 4 ft of 3-in dia
15A2	Terre Haute Malleable & Mfg. Corp.	W. H. Wood	1923	500	Dr	96	8	96	S									Screen, 10 ft of 10-in dia, no. 80 slot; Dd 2.5 ft pumping at 400 gpm
15B1	Mesbitt Bottling Co.	C. Sutherland	1842	490	Dr	116	8	116	S									Screen, 20 ft of 12-in dia; Dd 4 ft pumping at 200 gpm
15C1	Garfield Theatre	Pigg	1941	490	Dr	45	2	45	S									L; Screen, 20 ft of 8-in dia, no. 30 slot; Dd 13.5 ft after 14 days pumping at 400 gpm
15C2	Steak & Shake	Hardesty	1926	490	Dr	80	4	80	S									L; Screen, 20 ft of 8-in dia, no. 30 slot; Dd 13.5 ft after 14 days pumping at 400 gpm
15E1	Coca Cola Bottling Co.	J. J. Moser	1942	490	Dr	135	12	135	P									L; Screen, 20 ft of 8-in dia, no. 30 slot; Dd 13.5 ft after 14 days pumping at 400 gpm
15G1	Recipe Foods, Inc.	C. Sutherland	1942	490	Dr	90	8	90	S									L; Screen, 20 ft of 10-in dia, no. 80 slot; Dd 2.5 ft pumping at 400 gpm
15H1	Columbian Enameling Co.	W. H. Wood	1931	500	Dr	90	10	90	S									Screen, 20 ft of 12-in dia; Dd 4 ft pumping at 200 gpm
15H2	do	W. H. Wood	1943	500	Dr	87	10	85	S									L; Screen, 20 ft of 10-in dia, no. 80 slot; Dd 2.5 ft pumping at 400 gpm
15H3	do	do	12-47	500	Dr	90	12	90	S									Screen, 20 ft of 12-in dia; Dd 4 ft pumping at 200 gpm
15P1	Kenly Co.	Kenly Co.	1954	490	Dn	60	2	60	S									L; Screen, 20 ft of 8-in dia, no. 30 slot; Dd 13.5 ft after 14 days pumping at 400 gpm
16P1	Terre Haute Water Works Co.	do	10-22	460	Dr	72	8	72	S									L; Screen, 20 ft of 8-in dia, no. 30 slot; Dd 13.5 ft after 14 days pumping at 400 gpm
18B1	Fraternal Order of Police	Sutherland Bros.	9- 2-48	560	Dr	64	7	64	P									L; Screen, 20 ft of 8-in dia, no. 30 slot; Dd 13.5 ft after 14 days pumping at 400 gpm
19E1	H. Ridenour	L. Adkins	4- 7-44	550	Dr	60												L; "Dry hole"
19R1	West Terre Haute Utilities Co.	Layne-Northern Co., Inc.	4-28-38	480	Dr	81												L

12/ 98-1982	West Terre Haute	Layne-Northern Co., Inc.	6-13-38	Dr	70	14	70	S	13	57	S,G	Pl	U	13	300	P	Screen, 10 ft of 12-in dia; Dd 8 ft pumping at 300 gpm Screen, 12 ft of 12-in dia
19R3	-----do-----	Layne-Northern Co., Inc.	1- 3-47	Dr	111	12	111	S	18	93	S,G	Pl	U	18	600	P	Screen, 10 ft of 12-in dia; Dd 8 ft pumping at 300 gpm
21B1	Smith-Alsop Paint Co.	C. Sutherland	1936	Dr	96	16	96	P	42	53	S,G	Pl	U	42	200	I	Screen, 12 ft of 12-in dia
21F1	Home Packing & Ice Co.	Brown & Ringo	1920	Dr	105	16	105	P	42	53	S,G	Pl	U	42	1200	I	Dd 15 ft after 1/2 hr pumping La at 1,200 gpm
21F2	-----do-----	-----do-----	1940	Dr	124	15	124	P	42	82	S,G	Pl	U	42	1750	I	Dd 3 ft pumping at 1,500 gpm
21F3	-----do-----	-----do-----	1948	Dr	112	10	112	P	42	70	S,G	Pl	U	42	1500	I	L. Screen, 26 ft
21F4	-----do-----	-----do-----	10- 4-37	Dr	123	16	123	S	42	81	S,G	Pl	U	42	1500	I	Screen, 20 ft of 8-in dia, 7 ft of no. 25 slot, 5 ft of no. 12 slot, 8 ft of no. 16 slot; Dd 3 ft pumping at 150 gpm
21G1	Temple Laundry	W. H. Wood	498	Dr	100	8	100	-----	40	42	S,G	Pl	U	40	125	I	Screen, 20 ft of 4-in dia Screen, 20 ft of 6-in dia
21G2	-----do-----	-----do-----	495	Dr	100	8	100	-----	40	42	S,G	Pl	U	40	125	I	Dd 11 ft pumping at 300 gpm
21G3	-----do-----	L. Adkins	12-15-54	Dr	82	8	82	S	40	42	S,G	Pl	U	40	150	I	Dd 2 ft pumping at 150 gpm
21G4	Finer Foods Packing Co.	W. H. Wood	1943	Dr	80	4	80	S	-----	-----	S,G	Pl	-----	120	I	Dd 6 ft pumping at 125 gpm	
21G5	-----do-----	-----do-----	1945	Dr	80	6	80	S	-----	-----	S	Pl	-----	500	I	L. Screen, 7.5 ft dia	
21G6	Drake Produce	R. Benson	1949	Dr	101	8	101	-----	35	35	S,G	Pl	U	35	300	I,A	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
21G7	-----do-----	Moser	1954	Dr	70	2	70	S	35	35	S,G	Pl	U	35	300	I	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
21H1	Borden Pure Milk & Ice Cream Co.	W. H. Wood	1935	Dr	80	10	80	-----	45	35	S,G	Pl	U	45	300	I	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
21H2	-----do-----	-----do-----	1942	Dr	90	10	90	-----	45	35	S,G	Pl	U	45	150	I	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
21H3	Model Milk & Ice Cream Co.	-----do-----	1932	Dr	100	8	100	P	-----	-----	S,G	Pl	U	45	150	I	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
21H4	-----do-----	-----do-----	1939	Dr	103	8	103	P	-----	-----	S,G	Pl	U	45	150	I	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
21J1	Deming Hotel	-----do-----	1930	Dr	110	8	110	P	50	60	S,G	Pl	U	50	125	I	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
21J2	-----do-----	Sutherland Bros.	1952	Dr	87	8	87	S	-----	-----	S,G	Pl	U	50	300	I,A	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
21J3	Kay Bee Store	L. Adkins	1943	Dr	114	6	114	S	55	44	S,G	Pl	U	55	400	A	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
21J4	Indiana State Teachers College	Sutherland Bros.	1-48	Dr	99	10	99	S	55	44	S,G	Pl	U	55	400	A	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
21J5	Hunter Laundry	W. H. Wood	1926	Dr	80	10	80	S	45	35	S,G	Pl	U	45	180	I	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
21J6	Elks Club	-----do-----	1941	Dr	93	6	93	S	44	80	S,G	Pl	U	44	350	A,P	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
21L1	Vlgs Ice Co.	-----do-----	1946	Dr	124	10	124	S	44	80	S,G	Pl	U	44	350	A,P	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
21L2	-----do-----	-----do-----	1943	Dr	110	10	110	S	-----	-----	S,G	Pl	U	45	60	I	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
21L3	-----do-----	-----do-----	495	Dr	110	8	110	S	-----	-----	S,G	Pl	U	45	60	I	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
21M1	Eastern Motor Express Co.	-----do-----	1949	Dr	102	8	102	S	-----	-----	S,G	Pl	U	45	60	I	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
21M2	-----do-----	M. O. Schrader	460	Dr	34	-----	34	-----	-----	-----	S,G	Pl	U	30	50	L	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
21M3	Valentine Co.	W. H. Wood	1930	Dr	95	8	95	-----	30	65	S,G	Pl	U	30	50	L	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
21N2	-----do-----	H. C. Full	1946	Dr	95	10	95	-----	30	65	S,G	Pl	U	30	100	I	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
21P1	The Wadley Co.	W. H. Wood	1926	Dr	131	12	131	P	51	80	S,G	Pl	U	51	300	I	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
21P2	-----do-----	-----do-----	1931	Dr	131	12	131	S	51	80	S,G	Pl	U	51	150	N	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
21P3	-----do-----	-----do-----	5-44	Dr	92	12	92	S	51	41	S,G	Pl	U	51	500	I	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
21Q1	Frozen Fresh Foods, Inc.	-----do-----	500	Dr	83	4	83	-----	38	45	S,G	Pl	U	38	200	I	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
21R1	Indiana Theatre	Andriot-Davidson	6- 4-38	Dr	112	10	112	S	40	72	S,G	Pl	U	40	200	A	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
21R2	S. S. Kresge Co.	Andriot-Davidson	5-38	Dr	107	8	107	-----	49	58	S,G	Pl	U	49	300	A	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
21R3	-----do-----	C. Sutherland	1-39	Dr	106	8	106	S	52	54	S,G	Pl	U	52	300	A	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
21W	Carl Wolf Clothing Co.	W. H. Wood	1936	Dr	120	4	120	-----	-----	-----	S,G	Pl	U	-----	-----	A	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
22A1	Larrison Drug Store	Sutherland Bros.	5-48	Dr	153	6	153	-----	30	23	S,G	Pl	U	30	-----	A	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
22A2	Weston Paper Co.	Layne-Northern Co., Inc.	4-29-51	Dr	116	-----	116	-----	35	80	S,G	Pl	U	35	4220	I	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
22A3	-----do-----	-----do-----	6-24-51	Dr	113	38	113	Op	35	80	S,G	Pl	U	35	4220	I	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
22B1	Midland Bakeries	Moser	1935	Dr	104	8	104	-----	18	86	S,G	Pl	U	18	300	I	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
22F1	D. & H. Laundry	-----do-----	490	Dr	90	72	90	-----	35	55	S,G	Pl	U	35	300	I	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
22K1	Miller-Parrott Baking Co.	-----do-----	1945	Dr	85	4	85	S	-----	-----	S,G	Pl	U	-----	-----	I	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
22M1	Rulman & Co.	Hayworth	500	Dr	46	6	46	-----	35	11	S,G	Pl	U	35	-----	I	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
22M2	-----do-----	-----do-----	500	Dr	90	6	90	-----	-----	-----	S,G	Pl	U	-----	-----	I	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
22M3	Terre Haute House	W. H. Wood	1936	Dr	105	10	105	S	-----	-----	S,G	Pl	U	-----	380	A	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
22N1	Streak & Shake	Sutherland Bros.	500	Dr	80	6	80	-----	-----	-----	S,G	Pl	U	-----	36	A	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
22N2	Tostie Shop	L. Adkins	7-49	Dr	80	6	80	S	50	50	S,G	Pl	U	50	40	A	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
22N3	Radio Station W. T. H. I.	Sutherland Bros.	500	Dr	80	7	80	P	35	25	S,G	Pl	U	35	40	A	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
23L1	R. Hildum	H. R. Knox	4-22-54	Dr	177	6	177	On	65	12	Sh,C	P	-----	-----	N	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia	
25B1	R. Burnett	Ringo & Son	12-55	Dr	77	6	77	P	46	2	Ss	P	C	43	4	D	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia
25B2	M. Hungerford	H. R. Knox	4-30-54	Dr	107	6	107	On	92	19	Ss	P	L	-----	A	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia	
25B3	R. Little	Smith Bros.	9-55	Dr	136	-----	136	On	77	-----	Ls	P	-----	-----	D	Screen, 20 ft of 10-in dia Screen, 20 ft of 6-in dia	

Table 2. --Records of wells, Vigo County, Indiana--Continued

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land surface (feet)	Diameter (inches)	Depth of casing (feet)	Find	Water-bearing zone				Water level (feet)	Yield (gpm)	Use	Remarks
										Depth to top (feet)	Thickness (feet)	Material	Geologic age				
12/ 9W-2584	H. H. Harris	H. R. Knox	12- 4-54	520	Dr	107	7	68	Oh	96	7	SS	P	--	--	La	
2585	F. S. Yenowine	Sutherland Bros.	7- 8-47	540	Dr	142	8	103	Oh	114	10	SS	P	--	5	L, A	
2581	A. Corey	Ringo & Son	10-47	500	Dr	54	8	50	Oh	135	2	SS	P	--	25	L	
2511	Thunderbird Construction Co.	L. D. Lockard	10-14-59	510	Dr	65	4	36	Oh	45	10	Sh	P	C(1)33	1.5	L	
2581	J. Ivatt	L. Adkins	1948	495	Dr	32	---	32	P	---	---	S, G	PI	---	---	L	L; Well backfilled to 63 ft
25Q1	R. J. Williams	Sutherland Bros.	8-22-48	535	Dr	90	7	63	P	54	9	S, G	PI	---	4	La	
25R1	H. R. Knox	Sutherland Bros.	5-26-41	570	Dr	158	---	---	Oh	106	20	SS	P	---	---	La	
25R2	Mrs. Juergens	H. R. Knox	7-46	570	Dr	150	10	87	Oh	92	16	S	P	---	---	L	
25R3	H. Juergens	L. Schell	1957	575	Dr	135	6	86	Oh	85	3	C	P	C	4	La	
26A1	P. LeBron	L. Adkins	2-15-41	500	Dr	235	6	54	P	---	---	S, G	PI	---	---	L	
26J1	Harrison Township School	L. Adkins	11-17-44	500	Dr	175	6	92	Oh	---	---	---	P	---	---	L	
27D1	Terre Haute Brewing Co.	W. H. Wood	1923	490	Dr	125	6	125	---	---	---	S, G	PI	---	600	N	
27D2	---do---	---do---	1940	490	Dr	120	10	120	---	---	---	S, G	PI	---	800	N	
27D3	---do---	---do---	1943	490	Dr	120	12	120	---	---	---	S, G	PI	---	1,400	N	
27D4	---do---	Kelly Well Co	12-47	490	Dr	119	37	30	Gp	48	71	S, G	PI	---	2,100	N	La; Dd 16 ft pumping at 2,100 gpm
27D5	---do---	W. H. Wood	5-51	480	Dr	124	16	124	P	---	---	S, G	PI	---	2,400	N	Li; Dd 14 ft pumping at 1,500 gpm
27F1	Stran Steel Corp.	---do---	6-26-51	490	Dr	99	8	99	S	---	---	S, G	PI	---	135	I	L; Screen, 16 ft of 8-in dia. no. 60 and 80 slot
27R1	Chicago, Milwaukee, St. Paul and Pacific Railroad	---do---	4-10-36	500	Dr	86	12	86	S	36	50	S, G	PI	U	380	I	L; Screen, 12 ft of 11-in dia. 2 ft no. 25 slot, 6 ft no. 40 slot and 4 ft no. 60 slot; Dd 7 ft after 3 hr pumping at 380 gpm
28C1	Terre Haute Ice & Fuel Co.	---do---	1916	500	Dr	119	12	119	---	---	---	S, G	PI	---	---	N	
28C2	---do---	---do---	1920	500	Dr	119	8	119	---	---	---	S, G	PI	---	650	N	La, A; Ashley (1899)
28C3	City of Terre Haute	---do---	1869(?)	460	Dr	1,912	---	---	---	---	---	---	D	C	---	P	
28L1	Commercial Solvents Corp.	Layne-Northern Co., Inc	---	497	Dr	136	---	---	---	---	---	S, G	PI	U	---	T	
28L2	---do---	---do---	---	472	Dr	105	42	---	---	---	---	S, G	PI	U	---	T	
28L3	---do---	---do---	1946	496	Dr	131	18	130	Gp	82	78	S, G	PI	U	1,000	I	La; Screen, 30 ft of 18-in; Dd 11 ft after 8 hr pumping at 1,000 gpm
28L4	---do---	---do---	---	469	Dr	113	42	---	---	---	---	S, G	PI	---	1,500	I	La; Dd 22 ft after 6 hr pumping at 1,500 gpm
28L5	---do---	---do---	---	472	Dr	104	42	---	---	---	---	S, G	PI	---	1,500	I	La; Dd 19 ft after 24 hr pumping at 1,500 gpm
28L6	---do---	---do---	1941	493	Dr	130	14	130	S	50	80	S, G	PI	U	---	O	La, W; Observation well
28L7	---do---	---do---	1941	496	Dr	133	6	133	S	52	81	S, G	PI	U	---	O	La, W; Observation well
28P1	---do---	---do---	---	493	Dr	131	42	---	---	---	---	S, G	PI	---	1,270	I	La; Dd 16 ft after 8 hr pumping 1,270 gpm
32H1	Weston Paper & Manufacturing Co.	---do---	10-30-55	490	Dr	127	38	90	Gp	45	82	S, G	PI	U	2,000	I	La; Screen, 25 ft of 18-in dia. no. 105 slot; Dd 19 ft pumping at 2,000 gpm
32H2	---do---	---do---	10-18-55	490	Dr	130	6	---	---	---	---	S, G	PI	U	---	T	
32E1	---do---	---do---	12-16-23	490	Dr	123	30	123	S	40	83	S, G	PI	U	2,250	I	La; Screen, 60 ft of 30-in dia
32E2	---do---	---do---	5-10-37	490	Dr	112	40	112	S	24	88	S, G	PI	U	750	N	La; Screen, 60 ft of 40-in dia

Table 2.--Records of wells, Vigo County, Indiana--Continued.

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land surface (feet)	Diameter (inches)	Depth of casing (feet)	Plumb	Depth to top (feet)	Water-bearing zone				Yield (gpm)	Remarks
											Thickness (feet)	Material	Geologic age	Ground-water occurrence		
12/10W-14E3	J. Curley	L. Adkins	10-4-48	570	Dr	16		16	P	13	3	G	Pl			La
15A1	R. Coward	do	1947	570	Dr	275		65	P, Oh	41	3	G	Pl			N
15K1	L. Fields	H. R. Knox	8-42	515	Dr	177	5	126	P, Oh	156	4	C	Pl			D
25F1	A. Bays	L. Adkins	6-50	540	Dr	35	8	35	P			S, G	Pl	1400		N
26G1	Indiana Mushroom Corp.	H. R. Knox	8-14-48	470	Dr	260	7	80	Oh	61	3	C	P			L
28K1	F. Lorey	do	11-14-52	512	Dr	1,059						S, G	Pl			Og
28N1	J. Crews	do	9-16-57	490	Dr	40						Ss	P			Og
28Q1	S. Carpenter	M. O. Schrader	9-13-54	487	Dr	1,849				277	34	Ss	P			Og
33B1	J. Crews	do	9-20-50	490	Dr	1,854						S	Pl			Og
33C1	P. Hughes	do	4-54	492	Dr	1,835						S	Pl			Og
33C2	do	do	12-6-51	488	Dr	1,837		87	P	18	9	S, G	Pl			L
33P1	J. Syndeker	Sutherland Bros.	1948	560	Dr	87	6	87	P	78	27	S	Pl			L
34H1	Mr. Green	do	2-21-47	500	Dr	57	7	51	P	29	27	S	Pl			D
34K1	W. Scott	L. Schell	1957	530	Dr	123	6	52	Oh	89	1	C	P			L, A
13/7W-6E1	L. Shaw	Campbell Bros.	3-52	570	Dr	165	6	65	Oh			C	P	3		L, A
7J1	W. Brettail	Ringo & Son	9-31	555	Dr	80	6	50	Oh	71	9	Sd-sh, Ss	P	1.5		L, A
7K1	V. Lowans	M. O. Schrader	9-22-53	600	Dr	130	5	81	Oh			Ss	P	2		L, A
17H1	E. F. Carter	Campbell Bros.	5-11-56	620	Dr	281	6	229	Oh	228	53	Ss	P	13		L, A; Dd 131 ft bailing at 13 gpm
18P1	H. Kessel	Ringo & Son	8-22-57	600	Dr	80	6	80	S	68	12	S, G	Pl	20		L, A; Dd 3 ft pumping at 20 gpm
19J1	R. Nance	do	5-50	600	Dr	85	6	66	Oh	74.5	10.5	C, F	P	4.5		La
19K2	do	do	4-54	605	Dr	73	6	46	Oh	70	3	C, F	P	3		L
20N1	J. Hoffman	do	8-54	600	Dr	77	6	46	P, Oh	46	6	S	Pl			L, A
20P1	R. Walding	do	8-53	610	Dr	93	6	71	Oh	83	6	Sb	P	3		L, A
20Q1	Inland Coal Co.	do	1918	580	Dr	226				177	49	Ss	P			L, A
20R1	F. Underwood	Ringo & Son	9-54	610	Dr	101	6	100	Oh	100	1	S, G	Pl	10		L, A
30K1	Otter Creek Church	do	1-57	605	Dr	200	6	117	Oh			S	P	8		L, A
31A1	E. Revotney	do	4-54	595	Dr	153	6	90	Oh			S	P	9		L, A
31B1	D. C. McNeely	do	9-12-47	600	Dr	53	6	53	Oh	52.5	.5	S, G	Pl	10		L, A
31H1	H. Nevins	do	6-51	595	Dr	82	4	82	P	73	9	S, G	Pl	15		L, A; Dd 35 ft pumping at 15 gpm
31R1	T. Farris	do	3-1-48	610	Dr	122	8	98	Oh	97	2	S, G	Pl	7		L, A; Dd 75 ft pumping at 7 gpm
32B1	G. Morey	do	4-57	605	Dr	315	6	140	Oh	233	82	Ss	P	15		L, A; Dd 15 gpm
32M1	E. Weaver	do	2-20-54	620	Dr	108	6	108	P	92	16	S, G	Pl	15		L, A
13/8W-1Q1	I. M. Gibbs	do	8-13-55	587	Dr	1,622				21	1	S	Pl	4		L, A; Wilkey 1; L (partial)
3B1	W. W. Ross	Ringo & Son	3-30-50	540	Dr	31	6	31	P	103	7	Ss	P	20		National Consumers Oil Co. 1; La
3M1	H. Ross	L. Adkins	4-54	530	Dr	90	12	90	5	10	80	S, G	Pl	1000		L; Screen, 25 ft of 12-in dia; Dd 12 ft pumping at 1,000 gpm
5A1	D. C. Seaman	do	3-6-46	600	Dr	170	6	170	P	145	25	S, G	Pl			L
5B1	L. Pendergast	do	3-21-46	610	Dr	176	6	176	P	161	15	G	Pl			D, S
5M1	C. Forrum	W. Laughlin	4-22-52	600	Dr	92	6	92	Oh	91	1	S, G	Pl	5		L, A
7D1	P. Jeffers	L. Adkins	4-49	580	Dr	142	6	142	Oh	137	5	S, G	Pl			D, S
11E1	J. Hartman	do	10-15-47	545	Dr	38	6	38	P			S	Pl			L, A
12D1	A. North	do	1-17-50	586	Dr	1,474						S	Pl			Og
13A1	Fontana High School	C. Ringo	1928	600	Dr	450	6	250	Oh			S, G	P			L, A
13A2	C. Hamilton	Ringo & Son	12-56	600	Dr	32	6	32	P	28	1	S, G	Pl	5		L, A

Table 2. --Records of wells, Vigo County, Indiana--Continued

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land surface (feet)	Diameter (inches)	Depth of casing (feet)	Finish	Water-bearing zone					Water level (feet)	Yield (gpm)	Remarks
										Depth to top (feet)	Thickness (feet)	Material	Geologic age	Ground-water occurrence			
13/ 9W-10G1	Indiana Department of Conservation	Indiana Department of Conservation		460	Dr	42											
10N1	do	do		460	Dr	48											
11J1	J. Dennis	L. Adkins	8-49	520	Dr	82		82	P								
12D1	G. Music	Smith Bros.	11-4-59	510	J	65	2	65	S						15		
13N1	E. Deilich	do	1956	505	J	63	2 1/2	63	S						21		
13N2	G. Petit	do	8-5-59	510	J	70	2 1/2	70	S						43		
14K1	J. Gambill	L. Adkins	5-50	525	Dr	82		82	P								
16G1	do	do		470	Dr	54											
16P1	Indiana Department of Conservation	Indiana Department of Conservation		460	Dr	24											
16P2	do	do		450	Dr	23											
17C1	Indiana Department of Conservation	Indiana Department of Conservation		625	Dr	58											
17E1	do	do		625	Dr	58											
17M1	do	do		600	Dr	57											
17N1	do	do		600	Dr	56											
17P1	do	do		570	Dr	52											
18B1	Indiana Department of Conservation	Indiana Department of Conservation		629	Dr	54											
18C1	do	do		620	Dr	43											
18D1	M. Rowe	L. Adkins	8-7-41	630	Dr	280	8	73	Oh								
18E1	Texaco Station	Sutherland Bros.	12-47	620	Dr	135	5	45	Oh						40		
18G1	do	do		613	Dr	96											
18K1	Indiana Department of Conservation	Indiana Department of Conservation		590	Dr	57											
18K2	do	do		600	Dr	29											
18R1	do	do		590	Dr	60											
18R2	Indiana Department of Conservation	Indiana Department of Conservation		580	Dr	42											
19A1	do	do		575	Dr	31											
20B1	do	do		580	Dr	55											
20K1	Snow Hill Coal Co.	H. R. Knox	5-44	530	Dr	385	10	28	Oh								
20W1	Talley Coal Mining Co.	J. C. Howes & Son	10-5-52	588	Dr	1,987											
22P1	Saxton Mine	C. E. Crick		472	Dr	226											
23A1	J. Adams	F. E. Larrabee	9-23-59	505	J	65	2	65	S						45		
23R1	do	do		500	Dr	60	6	60	P								
24D1	D. Gerrish	Ringo & Son	1949	500	Dr	62	2 1/2	62	S								
24L1	G. Tinske	Smith Bros.	1956	505	J	59	2	59	S								
24M1	E. L. Toby	McDaniel & Sons	7-23-59	505	J	59	2	59	S								
24W1	D. Mergo	Smith Bros.	5-2-58	505	J	63	2 1/2	63	S								
24W2	G. Dirker	McDaniel & Sons	7-21-59	505	J	59	2	59	S								
24W3	W. R. Adams	Smith Bros.	8-21-59	500	J	58	2 1/2	58	S								
24P1	P. Lemont	do	8-10-59	510	J	53	2 1/2	53	S								
24P2	do	do	8-20-59	510	J	63	2 1/2	63	S								
24P3	do	do	8-28-59	510	J	83	2 1/2	63	S								

13/ 3W-24PA	P. Lemont	Smith Bros.	53	2 1/2	53	42	11	S,G	PI	U	42	15	D	Screen, 3 ft of 2 1/2-in dia, no. 25 slot
25B1	F. Creal	L. Adkins	112	12	112	49	63	S,G	PI	U	49	1050	Ir	Screen, 25 ft of 12-in dia, 10 ft no. 50 slot, 15 ft no. 80 slot; Dd 23 ft after 4 hr pumping at 1,050 gpm
25L1	W. Cain	Smith Bros.	59	4	59	25	34	S,G	PI	U	25	34	D	L. A.; Screen, 2 ft of 4-in dia, no. 60 slot
25Q1	C. E. & E. L. Wagner		63	2 1/2	63	30	33	S,G	PI	U	30	20	OG	K. Kuhn 1; L. (partial) Screen, 2.5 ft of 2 1/2-in dia, no. 30 slot
26H1	A. Sweeting	Smith Bros.	65	2 1/2	65	36	29	S,G	PI	U	36	20	D	La.; Screen, 2 ft of 2 1/2-in dia, no. 30 slot; Dd 3 ft pumping at 20 gpm
26J1	Mr. Short		55	2	55	25	30	S,G	PI	U	25	15	D	Screen, 3.5 ft of 1 1/2-in dia, no. 25 slot
26R1	R. Bryant		238										T	L. R. E. Stouder & T. Cooke 1;
27B1	Saxton Mine	J. Unger	1,630					S,G	PI				OG	L. (partial)
27F1	F. Webb & J. Dunlap		93	6	93	54	39	S,G	PI	U	54		I, A	L.; Screen, 6 ft of 6-in dia
27J1	Radio Station W.T.H.I.	Sutherland Bros.	469	2	469	56	24	S,G	PI	U	56	15	T	L. A.; Screen, 3.5 ft of 1 1/2-in dia, no. 25 slot
27K1	Saxton Mine	W. Z. Smith	150	2	150	62	101	S,G	PI	U	62		T	L. L.
27L1	W. Z. Smith	Smith Bros.	80	2	80	52	90	S,G	PI	U	52		T	L. L.
27P1	S. Cambo		164	6	164	53	1	S	PI	C	38	2	T	L. L.
27Q1	Old Trails Realty Co.	Layne-Northern Co., Inc.	143	6	143	60		S	PI	(W)	60	10	D	L. A
27R1	Saxton Mine	W. Z. Smith	250	6	250	64	64	P	PI				T	L. A
28A1	W. L. Butler	V. Eaton	75	6	75	60							T	L. A
28G1	E. Vermuelen	L. Schell	296										T	L. A
29E1	Saxton Mine	Johnson Drilling Co.	367	2	367								T	L. A
29F1			342										T	L. A
30H1	I. Marks	L. Adkins	125										De	L. "Dry hole"
31A1			107					S	PI				La, A;	Well backfilled with gravel
31C1			370										T	L. L.
31C2	Saxton Mine	Johnson Drilling Co.	209										T	L. L.
32H1			318										De	L. "Dry hole"
32K1	K. F. Steiger	L. Adkins	173										T	L. L.
32M1	Saxton Mine	W. H. Wood	335	6	335	165							T	L. L.
32N1			169										T	L. L.
32P1			197	6	197	15	16	Sh	P	U	15	1	T	La
32Q1	Viking Mine	W. H. Wood	122										T	L. L.
32R1	Saxton Mine	Johnson Drilling Co.	132										T	L. L.
32S1			132										T	L. L.
32T1			176										T	L. L.
32U1	A. H. Brockshidt		170	2	170			S,G	PI				T	L. L.
32V1	W. Z. Smith		138	6	138	41	87	S,G	PI	U	41		T	L. L.
33A1	Anacanda Aluminum Co.	Sutherland Bros.	138	6	138	48	90	S,G	PI	U	48		T	L. L.
34A2			138	12	138	50	88	S,G	PI	U	50	590	I	La A.; Screen, 20 ft of 12-in dia, 11 ft of no. 30 slot, 4 ft of no. 60 slot, 5 ft of no. 125 slot; Dd 12 ft after 8 hr pumping at 590 gpm; Well pulled back to 100 ft
34A3			100	12	100								I	La A.; Screen, 20 ft of 12-in dia, 10 ft of no. 30 slot, 2 ft of no. 60 slot, 8 ft of no. 8 slot; Dd 12 ft after 8 hr pumping at 580 gpm; Well pulled back to 100 ft
34A4			138	12	138	50	88	S,G	PI	U	50	580	I	La A.; Screen, 20 ft of 12-in dia, 10 ft of no. 30 slot, 2 ft of no. 60 slot, 8 ft of no. 8 slot; Dd 12 ft after 8 hr pumping at 580 gpm; Well pulled back to 100 ft
34A5			124	6	124	58	66	S,G	PI	U	58		T	La
34A6			141	6	141	60	80	S,G	PI	U	60		T	La
34A7			140	6	140	79	60	S,G	PI	U	60		T	La
34A8			133	12	133	48	85	S,G	PI	U	48	510	I	La A.; Screen, 20 ft of 12-in dia, 7 ft of no. 40 slot, 9 ft of no. 80 slot, 4 ft of no. 15 slot; Dd 9 ft after 8 hr pumping at 510 gpm; Well pulled back to 100 ft

Table 2. --Records of wells, Vigo County, Indiana--Continued

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter (inches)	Depth of casing (feet)	Finish	Water-bearing zone						Remarks			
										Depth to top (feet)	Thickness (feet)	Material	Geologic age	Ground-water occurrence	Water level (feet)		Yield (gpm)	Use	
13/ 9W-34A9	Anacanda Aluminum Co.	Sutherland Bros.	10-24-55	509	Dr	138	6	---	---	50	88	S/G	PI	U	50	---	T	La	
34A10	---	---	10-53	510	Dr	139	6	---	---	60	84	S/G	PI	U	55	---	L	L	
34C1	Spelterville Develop-ment Co.	---	9-10-23	520	Dr	232	10	174	S	62	112	S/G	PI	U	62	300	H	L; Screen, 20 ft of 10-in dia	
34C2	---	---	1923	520	Dr	250	10	174	S	62	112	S/G	PI	U	62	600	N	La; Screen, 40 ft of 10-in dia	
34C3	---	---	8-24-23	520	Dr	255	10	174	S	62	112	S/G	PI	U	62	650	N	Do	
34C4	---	---	8-16-23	520	Dr	266	10	174	S	62	112	S/G	PI	U	62	650	N	Do	
34C5	---	---	1934	518	Dr	101	6	101	P	61	40	S/G	PI	U	61	---	O	Observation well Vigo 4; W	
34G1	Meyer's Homes	Smith Bros.	---	575	J	84	2 1/2	84	S	---	---	S/G	PI	---	---	---	D	Screen, 2.5 ft of 2 1/2-in dia, no. 60 slot	
34J1	Allis Chalmers Mfg. Co.	Diehl Pump Co.	5-32	510	Dr	100	12	100	S	48	52	S/G	PI	U	48	510	I	Dd 3 ft after 24 hr pumping at 510 gpm	
34J2	---	---	10-52	515	Dr	100	12	100	S	55	45	S/G	PI	U	55	715	I	Screen, 30 ft of 12-in dia, 10 ft of no. 20 slot, 10 ft of no. 80 slot, 10 ft of no. 100 slot; Dd 4 ft after 24 hr pumping at 715 gpm	
34M1	Saxton Mine	---	---	493	Dr	262	---	---	---	---	---	---	---	---	---	---	---	---	---
34Q1	James Coal Co.	Sutherland Bros.	3-12-47	520	Dr	80	5	80	P	54	26	S/G	PI	U	54	---	I	L	
34R1	Allis Chalmers Mfg. Co.	Diehl Pump Co.	10-52	515	Dr	100	12	98	S	50	48	S/G	PI	U	50	760	I	L	
35A1	W. Fischer	Smith Bros.	12-57	495	J	49	2	49	S	---	---	S/G	PI	---	---	15	P	L, A; Screen, 3 ft of 1 1/2-in dia, no. 25 slot	
35E1	R. Reynolds	---	8-9-59	500	J	44	2	44	S	15	29	S/G	PI	U	15	20	D	Screen, 3.5 ft of 1 1/2-in dia, no. 25 slot	
35H1	Paul Roberts Tavern	L. Adkins	5-48	490	Dr	47	6	47	P	---	---	S/G	PI	---	---	---	P	L	
35J1	General Telephone Co.	Smith Bros.	1-58	490	Dr	75	4	75	S	18	57	S/G	PI	U	18	10	A	L; Screen, 6 ft of 4-in dia, of no. 14 slot; Dd 3 ft pumping at 10 gpm	
35J2	J. J. Moser	V. Eaton	7-15-59	485	Dr	60	6	60	S	17	43	S/G	PI	U	17	---	I	L, A; Screen, 10 ft of 6-in dia, no. 80 slot	
35L1	R. Trout	Smith Bros.	9-10-59	490	J	44	2 1/2	44	S	23	21	S/G	PI	U	23	15	D	Screen, 2.5 ft of 2 1/2-in dia, no. 25 slot	
35Q1	J. Phillips	---	10-23-59	490	J	50	2	50	S	25	25	S/G	PI	U	25	15	D	Screen, 2.5 ft of 2 1/2-in dia, no. 25 slot	
35R1	J. L. Robinson	---	---	490	Dr	40	2 1/2	40	S	25	25	S/G	PI	U	25	---	D	L, A; Screen, no. 60 slot	
35R2	W. Knopp	---	8-3-59	490	J	42	2	42	S	20	22	S/G	PI	U	20	15	D	Screen, 3.5 ft of 1 1/2-in dia, no. 25 slot	
36F1	P. Calvert	---	1958	490	J	42	2 1/2	42	S	25	17	S/G	PI	U	25	---	D	La, A; Screen, no. 60 slot	
36F2	G. Dean	---	1-3-60	480	J	45	2	45	S	25	20	S/G	PI	U	25	15	D	Screen, 3.5 ft of 1 1/2-in dia, no. 25 slot	
36F3	W. B. Randolph	---	9-1-59	490	J	44	2	44	S	20	24	S/G	PI	U	20	15	D	A; Screen, 3.5 ft of 1 1/2-in dia, no. 25 slot	
36G1	F. Weaver	---	---	490	Dn	40	2	40	S	---	---	S/G	PI	---	---	---	D	A	
36G2	T. Vanderwiever	Smith Bros.	11-2-59	495	J	48	2 1/2	48	S	25	23	S/G	PI	U	25	20	D	Screen, 3 ft of 2 1/2-in dia, no. 30 slot	
36J1	E. Sturm	L. Schell	---	500	Dn	87	6	37	Oh	87	---	C	P	C	25	10	D	La, A	
36J2	F. Wassell	---	---	490	Dn	100	8	20	Oh	---	---	P	P	---	---	---	D	Lam	
36J3	P. Adair	---	1-55	490	Dr	83	6	24	Oh	---	---	P	P	---	---	2.5	D	Lam	
36J4	E. Herb	---	---	495	Dr	87	8	22	Oh	85	---	C	P	---	---	---	D	Lam	
36J5	J. Redman	---	1957	500	Dr	75	6	31	Oh	---	---	P	P	---	---	---	D	Lam, A	
36K1	R. Gogman	---	---	500	Dn	60	2 1/2	60	S	25	10	S/G	PI	U	25	18	D	La, A	
36K2	R. Cain	---	1-6-58	500	J	49	2	49	S	22	27	S/G	PI	U	22	15	D	L; Screen, 3 ft of 1 1/2-in dia, no. 10 slot	
36K3	E. Denny	---	8-27-59	495	J	44	2	44	S	20	24	S/G	PI	U	20	11	D	Screen, 3.5 ft of 1 1/2-in dia, no. 25 slot	

13/ 9W-36K4	A. Lueckel	Smith Bros.	8-17-59	495	J	44	2	44	5	20	24	S,G	PI	U	20	11	D	Screen, 3.5 ft of 1 1/4-in dia, no. 12 slot Lam: Screen, 8 ft of 6-in dia, no. 80 slot
36M1	North Terre Haute Volunteer Fire Department	L. Schell	3-58	490	Dr	50	6	50	S	15	35	S,G	PI	U	15	50	P	
36M2	-----do-----	-----do-----	1958	490	Dr	105	6	105	S	20	24	S,G	PI	U	20	15	De	Screen, 2.5 ft of 2 1/4-in dia, no. 30 slot
36M3	N. Remington	Smith Bros.	8-10-59	490	J	44	2 1/2	44	S	168	7	Ss	P	U	5	5	D	Lam, A
36Q1	H. Jones	L. Schell	-----	500	Dr	175	8	20	Oh	110	8	Oh	P	U	26	15	D	Lam, A
36Q2	G. Floryo	-----do-----	1958	500	Dr	175	8	30	Oh	18	8	Oh	P	U	26	15	D	Lam, A
36Q3	C. Smith	-----do-----	1958	500	Dr	178	8	18	Oh	48	2	S	PI	U	26	15	D	Screen, 3.5 ft of 1 1/4-in dia, no. 25 slot
36Q4	M. C. Sieben	Smith Bros.	10-15-59	500	J	48	2	48	S	-----	-----	-----	-----	-----	-----	-----	-----	-----
13/10W- 1D1	G. W. Acord	W. L. Dillier & D. E. Klierim	10-13-53	648	Dr	1,857	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
11R1	Mr. Sparks	Indiana Department of Conservation	1958	640	Dr	380	6	120	Oh	160	220	Ss	P	U	17	1.5	D	The Pure Oil Co. 1; L (partial)
11R2	Indiana Department of Conservation	F. E. Larrabee Conservation	-----	640	Dr	39	-----	-----	-----	18	5	Sd-s1	PI	U	-----	-----	-----	-----
12J1	-----do-----	-----do-----	-----	630	Dr	58	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
12R1	New Goshen School	M. O. Schrader	4-28-55	633	Dr	273	5	138	Oh	-----	-----	-----	-----	-----	-----	-----	-----	-----
12R2	Indiana Department of Conservation	Indiana Department of Conservation	-----	640	Dr	54	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
24N1	C. Ray	Y. Eaton	7-2-55	620	Dr	86	6	75	P, Oh	15	3	S	PI	U	17	1.5	D	L, A
										28	5	S,G	PI	C	59			
											2	S	PI					

Table 3.--Selected well logs, Vigo County, Indiana

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

Well 10/8W- 1C1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan, gray-----	50	68	
Sand and gravel-----	2	70	
Wash, gray-----	10	80	
Pennsylvanian system:			
Middle series:			
Slate, black-----	3	83	
Coal-----	1	84	
Fire clay (?)-----	2	86	
Shale, light-blue-----	8	94	
Shale, gray-----	6	100	
Shale, sandy, gray-----	20	120	
Sandstone, gray-----	57	177	W.B.

Well 10/8W- 2K1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	19	19	
Shale, gravelly-----	3	22	Gravelly clay (?)
Pennsylvanian system:			
Middle series:			
Slate, black-----	1.5	23.5	
Coal-----	1.5	25	
Fire clay-----	1	26	
Shale, brown-----	8	34	
Shale, gray-----	65	99	
Sandstone-----	3	102	
Shale, hard, dark-gray-----	7	109	
Sandstone-----	29	138	
Shale, hard, dark-gray-----	3	141	
Sandstone-----	46	187	W.B.
Shale, gray-----	7	194	

Well 10/8W- 2N1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	13	13	
Sand-----	14	27	
Sand and gravel-----	32	59	
Mud, brown-----	7	66	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/8W- 2N1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	4	70	
Sandstone-----	39	109	
Shale, gray-----	6	115	
Slate-----	6	121	
Fire clay-----	3	124	
Shale, gray-----	14	138	
Shale, sandy-----	17	155	
Sandstone-----	45	200	W.B.

Well 10/8W- 3C1

Type of record:	Driller's log.		Altitude: About 580 feet.
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	19	19	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	25	44	
Coal and slate-----	5	49	
Fire clay-----	2	51	
Shale, light-----	3	54	
Sandstone-----	8	62	
Shale and some sandy shale---	58	120	
Sandstone-----	50	170	W.B.

Well 10/8W- 3R1

Type of record:	Driller's log.		Altitude: About 555 feet.
Quaternary system:			
Recent and Pleistocene series:			
Surface, sandy-----	14	14	
Gravel and sand-----	23	37	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	7	44	
Slate, black-----	3.5	47.5	
Coal, soft-----	2	49.5	
Fire clay-----	12	61.5	
Sandstone, white-----	47.5	109	W.B.
Shale-----	6	115	

Well 10/8W- 4A1

Type of record:	Driller's log.		Altitude: About 600 feet.
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	18	18	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/8W- 4F1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	13	95	
Sandstone-----	65	160	
Shale, dark-----	10	170	
Sandstone-----	74	244	W.B.
Shale, dark-----	10	254	

Well 10/8W- 4J1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Pennsylvanian system:			
Middle series:			
Sandstone-----	4	19	
Coal-----	4	23	
Fire clay-----	2	25	
Shale, gray-----	51	76	
Slate, black-----	5	81	
Coal-----	2	83	
Fire clay-----	2	85	
Shale-----	4	89	
Sandstone and sandy shale, white-	58	147	
Shale, dark-----	7.5	154.5	
Slate, black-----	4	158.5	
Coal-----	1.5	160	
Fire clay-----	2	162	
Sandstone, white-----	8	170	
Shale, sandy, gray-----	10	180	
Sandstone, white-----	40	220	W.B.

Well 10/8W- 4M2

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	13	13	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	8	21	
Limestone (?)-----	3.5	24.5	
Sandstone-----	2	26.5	
Shale-----	6	32.5	
Limestone-----	4	36.5	
Shale-----	1	37.5	
Slate-----	2	39.5	
Coal-----	2	41.5	
Fire clay-----	4	45.5	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/8W- 5B1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, hard-----	2.5	73.5	
Limestone-----	5.5	79	
Shale, gray-----	9	88	
Limestone-----	1.5	89.5	
Slate, black-----	3	92.5	
Coal-----	1.5	94	
Fire clay-----	3.5	97.5	
Sandstone-----	1.5	99	
Shale, gray-----	55	154	
Slate, black-----	4	158	
Coal-----	1	159	
Fire clay-----	3	162	
Shale, gray-----	9	171	
Sandstone-----	4	175	
Shale, sandy, white-----	15	190	
Shale, dark-----	6	196	
Sandstone, gray-----	11	207	
Shale, solid, dark-----	13	220	
Slate, black-----	6	226	
Shale, gray-----	3	229	
Sandstone-----	8	237	
Shale, gray-----	16	253	
Sandstone, white-----	48	301	W.B.

Well 10/8W- 5M2			
Type of record: Driller's log.	Altitude: About 580 feet.		
Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	12	12	
Hardpan, solid, yellow-----	5	17	
Hardpan, sandy, soft, yellow-----	1	18	W.B.
Hardpan, gray, and boulders-----	2	20	
Mud, soft, yellow and brown-----	18	38	
Pennsylvanian system:			
Middle series:			
Shale, solid, muddy, dark-----	7	45	W.B.
Slate, solid, muddy, gray-----	26	71	W.B.
Coal and fire clay, soft-----	4	75	
Limestone, hard-----	6	81	
Slate, solid, gray-----	9	90	
Limestone, sandy, hard-----	1	91	
Limestone, sandy, solid-----	5	96	
Slate, black-----	2	98	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/8W- 6D1

Type of record: Driller's log.

Altitude: About 560 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	53	69	
Shale, dark-----	2	71	
Coal-----	2	73	
Fire clay-----	2	75	
Sandstone, gray-----	3.5	78.5	
Shale, sandy-----	5.5	84	
Sandstone, gray-----	7	91	
Slate, black-----	3	94	
Coal-----	2.5	96.5	
Fire clay-----	4.5	101	
Sandstone, gray-----	9	110	
Shale, gray-----	6	116	
Shale, blue-----	11	127	
Shale, sandy, gray-----	4	131	
Shale, gray-----	22	153	
Slate, black-----	3	156	
Coal-----	2	158	
Fire clay-----	4	162	
Sandstone, gray-----	6	168	
Shale, gray-----	11	179	
Sandstone, gray-----	4	183	
Shale, gray-----	10	193	
Sandstone, gray-----	42	235	
Shale, gray-----	4	239	
Sandstone, gray-----	9	248	
Shale, dark-----	3	251	
Sandstone, gray-----	16	267	
Shale, dark-----	1	268	
Coal-----	3	271	
Fire clay-----	2.5	273.5	
Shale, gray-----	2.5	276	

Well 10/8W- 6M1

Type of record: Driller's log.

Altitude: About 570 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	4	20	
Shale, blue-----	37	57	
Shale, gray-----	24	81	
Shale, dark-----	1.5	82.5	
Coal-----	2.5	85	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/8W- 6M1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Fire clay-----	2	87	
Limestone-----	5	92	
Shale, gray-----	13	105	
Slate, black-----	5	110	
Coal-----	3.5	113.5	
Fire clay-----	3.5	117	
Sandstone, gray-----	6	123	
Shale, gray-----	8	131	
Shale, blue-----	27	158	
Shale, gray-----	16	174	
Slate, black-----	2	176	
Coal-----	2	178	
Shale, gray-----	8	186	
Sandstone, gray-----	9	195	
Shale, gray-----	5	200	
Shale, dark-----	8	208	
Sandstone, dark-----	3	211	
Shale, sandy-----	6	217	
Sandstone, gray-----	3	220	
Shale, gray-----	14	234	
Shale, sandy, gray-----	13	247	
Sandstone, gray-----	18	265	
Shale, gray-----	3	268	
Sandstone, gray-----	4	272	
Shale, gray-----	7	279	
Slate, black-----	2	281	
Shale, gray-----	12	293	
Sandstone, gray-----	13	306	

Well 10/8W- 6R1

Type of record: Driller's log.		Altitude: About 590 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	24	24	
Shale-----	6	30	Clay (?)
Shale, gravelly-----	2	32	Clay, gravelly (?)
Pennsylvanian system:			
Middle series:			
Shale, dark-----	76	108	
Slate, black-----	2.5	110.5	
Coal-----	1.5	112	
Fire clay-----	1	113	
Limestone-----	5	118	
Shale, dark-----	7	125	
Sandstone-----	3	128	
Shale, dark-----	3	131	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/8W- 6R1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Limestone-----	5	136	
Slate, black-----	7	143	
Mine opening-----	5	148	
Bottoms-----	6	154	
Shale, dark-----	34	188	
Slate, black-----	3.5	191.5	
Coal-----	2.5	194	
Fire clay-----	3	197	
Shale-----	11	208	
Coal-----	.5	208.5	
Slate, gray-----	5	213.5	
Sandstone-----	14	227.5	
Shale, sandy-----	4	231.5	
Sandstone-----	12.5	244	
Shale, dark-----	16	260	
Slate, black-----	4.5	264.5	
Fire clay-----	4	268.5	
Shale, white-----	2.5	271	
Sandstone-----	2.5	273.5	
Shale, gray-----	45	318.5	
Sandstone-----	11.5	330	
Shale, sandy-----	6	336	

Well 10/8W- 7F1

Type of record: Driller's log.

Altitude: About 575 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	16	16	
Sand and gravel-----	4	20	
Hardpan-----	18	38	
Shale, gumbo-----	5	43	Clay (?)
Pennsylvanian system:			
Middle series:			
Slate, gray-----	73	116	
Coal-----	3	119	W.B.
Fire clay-----	1	120	
Limestone-----	5	125	
Shale, dark-----	4	129	
Limestone and sandstone, brown---	7	136	W.B.
Slate, black-----	11	147	
Limestone, black-----	3	150	
Slate, dark-----	1	151	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/8W- 7G1

Type of record: Driller's log.

Altitude: About 575 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	
Sand-----	5	22	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	25	47	
Shale, gray-----	44	91	
Shale, dark-----	2	93	
Coal-----	2	95	
Fire clay-----	1	96	
Limestone-----	5	101	
Shale, gray-----	9	110	
Sandstone-----	3.5	113.5	
Shale, dark-----	6	119.5	
Slate-----	4	123.5	
Coal-----	3	126.5	
Fire clay-----	4.5	131	
Shale, gray-----	6	137	
Shale, dark-----	21	158	
Shale, gray-----	25	183	
Slate-----	1	184	
Steel band-----	1	185	
Slate, black-----	3.5	188.5	
Coal-----	3.5	192	
Fire clay-----	1.5	193.5	
Sandstone-----	7.5	201	
Shale, blue-----	9	210	
Sandstone, gray-----	15	225	
Shale, dark-----	1.5	226.5	
Sandstone-----	3.5	230	
Slate-----	3.5	233.5	
Sandstone-----	8.5	242	
Shale, gray-----	8	250	

Well 10/8W- 8P1

Type of record: Driller's log.

Altitude: About 610 feet.

Quaternary system:			
Recent and Pleistocene series:			
Drift-----	28	28	
Pennsylvanian system:			
Middle series:			
Shale, muddy, gray-----	93	121	
Coal and black shale-----	3	124	"Gas"
Limestone-----	6	130	
Shale, gray-----	4	134	
Limestone-----	3	137	
Shale, gray-----	8	145	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/8W-10C2--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Slate, black-----	5	76	
Coal-----	2	78	
Fire clay-----	7	85	
Sandstone-----	55	140	W.B.
Shale, sandy, dark-----	10	150	

Well 10/8W-10E1			
Type of record: Driller's log.		Altitude: About 570 feet.	
Quaternary system:			
Recent and Pleistocene (?) series:			
Surface-----	18	18	
Gravel-----	.5	18.5	
Shale, gray-----	11.5	30	Clay (?)
Shale, sandy-----	5	35	Sandy clay (?)
Shale, dark-----	5	40	Clay (?)
Shale, soft, gray-----	10	50	Soft clay (?)
Coal-----	2	52	
Gravel-----	3	55	
Pennsylvanian system:			
Middle (?) series:			
Shale, soft-----	28	83	
Slate, black-----	5	88	
Coal-----	2	90	
Fire clay-----	5	95	
Sandstone-----	41	136	W.B.
Slate, black-----	1	137	
Shale, dark-----	13	150	

Well 10/8W-11J1			
Type of record: Driller's log.		Altitude: About 550 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	
Shale, gravelly-----	3	20	Gravelly clay (?)
Shale, sandy-----	9	29	Sandy clay (?)
Clay, yellow-----	3	32	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	13	45	
Sandstone-----	27	72	
Coal-----	2	74	
Shale, dark-----	17	91	
Slate, black-----	5	96	
Fire clay-----	7	103	
Sandstone-----	6	109	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/8W-13M1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	25	25	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	20	45	
Slate, black-----	3	48	
Shale, light-----	12	60	
Shale, sandy-----	6	66	
Sandstone-----	40	106	W.B.
Shale, blue-----	3	109	
Coal-----	1	110	
Fire clay-----	2	112	

Well 10/8W-14A1

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

Quaternary system			
Recent and Pleistocene series:			
Top soil-----	14	14	
Muck-----	4	18	
Gravel, trace-----	--	18	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	5	23	
Sandstone, gray-----	19	42	Trace of coal at 32 ft
Sandstone, off white-----	19	60	W.B.

Well 10/8W-15F1

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

Open well-----	18	18	
Pennsylvanian system:			
Middle series:			
Shale, light-----	8	26	
Shale, blue-----	61	87	
Rock, black-----	2	89	
Coal-----	5	94	
Fire clay-----	3	97	
Sandstone-----	53	150	W.B.

Well 10/8W-16H1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/8W-16H1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Sandstone-----	8	23	
Shale, gray-----	9	32	
Coal-----	1.5	33.5	
Fire clay-----	2.5	36	
Limestone-----	1.5	37.5	
Shale, gray-----	12.5	50	
Limestone-----	4.5	54.5	
Slate, black-----	3	57.5	
Coal-----	1.5	59	
Fire clay-----	2	61	
Shale, sandy, gray-----	10	71	
Sandstone and sandy shale, white-----	39	110	
Shale, dark-----	6	116	
Shale, gray-----	20	136	
Slate, black-----	5	141	
Coal-----	2.5	143.5	
Fire clay-----	1.5	145	
Shale, sandy, gray-----	7	152	
Sandstone, white-----	34.5	186.5	W.B.
Shale, gray-----	--	186.5	

Well 10/8W-16J1			
Type of record: Driller's log.	Altitude: About 600 feet.		
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	29	49	
Slate, black-----	1.5	50.5	
Coal-----	.5	51	
Fire clay-----	2	53	
Limestone-----	3	56	
Shale, sandy, gray-----	11	67	
Limestone-----	7.5	74.5	
Slate, black-----	3.5	78	
Coal-----	3	81	
Fire clay-----	1	82	
Shale, sandy, gray-----	36	118	
Shale, gray-----	30	148	
Slate, black-----	3	151	
Coal-----	1	152	
Fire clay-----	2	154	
Shale, sandy, gray-----	7	161	W.B.
Sandstone, white-----	43	204	W.B.
Slate, black-----	.5	204.5	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/8W-16M1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	
Sand and gravel-----	8	25	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	57	82	
Slate, black-----	1.5	83.5	
Coal-----	2	85.5	
Fire clay-----	2.5	88	
Limestone-----	1	89	
Shale, sandy-----	4	93	
Shale, light-gray-----	14	107	
Slate, black-----	1	108	
Fire clay-----	.5	108.5	
Limestone-----	4	112.5	
Slate, black-----	12.5	125	
Coal-----	4.5	129.5	
Bottoms, hard-----	4.5	134	
Sandstone-----	9	143	
Shale, gray-----	22	165	
Steel band-----	2.5	167.5	
Slate, black-----	2.5	170	
Coal-----	2.5	172.5	
Fire clay-----	1.5	174	
Sandstone-----	46	220	W.B.
Shale, gray-----	5	225	

Well 10/8W-18N1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	16	16	
Pennsylvanian system:			
Middle series:			
Sandstone, red-----	14	30	W.B.
Sandstone, gray-----	28	58	W.B.
Shale, dark-----	14	72	
Coal-----	2	74	
Fire clay-----	4	78	
Shale, sandy-----	7	85	

Well 10/8W-19J1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	18	18	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/8W-19J1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	32	50	
Shale, dark-----	51	101	
Coal-----	2	103	W.B.
Shale, dark-----	5	108	W.B.
Shale, sandy-----	9	117	
Limestone, hard-----	5	122	
Coal-----	6	128	
Shale, sandy-----	64	192	
Shale, gray-----	18	210	
Slate, dark-----	3	213	
Coal-----	5	218	
Fire clay-----	2	220	
Limestone, hard-----	2	222	
Shale, gray-----	6	228	

Well 10/8W-20E1

Type of record: Driller's log. Altitude: About 635 feet.

Open well-----	29	29	
Pennsylvanian system:			
Middle series:			
Shale, light-----	31	60	
Shale, gray-----	52	112	
Coal-----	3	115	
Limestone-----	5	120	
Shale, sandy-----	9	129	
Limestone-----	7	136	
Slate, black-----	6	142	
Shale, light-----	12	154	
Shale, sandy-----	8	162	
Shale, gray-----	60	222	
Shale, blue-----	3	225	
Slate, black-----	7	232	
Slate, gray-----	12	244	
Slate, black-----	3	247	
Shale, blue-----	4	251	
Sandstone-----	12	263	
Shale, blue-----	3	266	
Slate, gray-----	9	275	
Slate, black-----	7	282	
Fire clay-----	1	283	
Limestone-----	7	290	
Sandstone-----	3	293	
Shale, blue-----	1	294	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/8W-20E2			
Type of record: Driller's log.		Altitude: About 635 feet.	
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	18	18	
Hardpan-----	4	22	
Pennsylvanian system:			
Middle series:			
Shale, light-----	8	30	
Shale, sandy-----	10	40	
Shale, gray-----	35	75	
Sandstone, light-----	5	80	W.B.
Shale, dark-----	25	105	

Well 10/8W-20N1			
Type of record: Driller's log.		Altitude: About 635 feet.	
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	25	25	
Pennsylvanian system:			
Middle series:			
Coal-----	2	27	
Shale, soft, gray-----	8	35	
Limestone-----	3	38	
Shale, sandy-----	52	90	W.B.
Slate, gray-----	28	118	
Coal-----	2	120	
Shale, sandy-----	11	131	W.B.
Limestone, hard-----	1	132	

Well 10/8W-21A1			
Type of record: Driller's log.		Altitude: About 595 feet.	
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	19	19	
Pennsylvanian system:			
Middle series:			
Sandstone, red-----	3	22	
Shale, gray-----	21	43	
Slate, black-----	1	44	
Fire clay-----	3	47	
Shale, gray-----	11	58	
Shale, sandy-----	3	61	
Sandstone-----	4	65	
Shale, gray-----	2	67	
Limestone-----	6	73	
Slate, black-----	7.5	80.5	
Coal-----	4	84.5	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/8W-24C1

Type of record: Driller's log.

Altitude: About 555 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	19	19	
Hardpan-----	8	27	
Pennsylvanian system:			
Middle series:			
Limestone, hard-----	3	30	
Shale, light-----	6	36	
Sandstone, white-----	14	50	W.B.
Sandstone, dark-----	7	57	
Shale, dark-----	7	64	
Sandstone-----	4	68	
Sandstone, light-----	6	74	W.B.
Coal-----	2	76	
Sandstone, dark-----	6	82	
Slate, blue-----	4	86	
Shale, light-----	9	95	
Limestone, hard-----	4	99	
Shale, dark-----	9	108	

Well 10/8W-25N1

Type of record: Driller's log.

Altitude: About 610 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	18	18	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	72	90	
Shale, dark-----	5	95	
Slate, black-----	3	98	
Fire clay-----	5	103	
Shale, gray-----	9	112	
Sandstone-----	73	185	
Sandstone, white-----	9	194	W.B.

Well 10/8W-26R1

Type of record: Driller's log.

Altitude: About 620 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	17	17	
Pennsylvanian system:			
Middle series:			
Sandstone-----	18	35	
Shale, gray-----	34	69	
Shale, sandy-----	6	75	W.B.
Shale, gray-----	23	98	
Shale, black-----	6	104	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/8W-26R1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	3	107	
Shale, soft, gray-----	11	118	
Sandstone-----	32	150	
Shale, gray-----	26	176	
Sandstone-----	13	189	
Sandstone, white-----	21	210	W.B.

Well 10/8W-27R1			
Type of record: Driller's log.		Altitude: About 620 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	14	14	
Hardpan-----	12	26	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	8	34	
Shale, dark-----	62	96	
Coal-----	4	100	
Shale, dark-----	4	104	
Shale, sandy-----	4	108	
Limestone, hard-----	3	111	
Limestone, sandy-----	14	125	
Sandstone-----	44	169	W.B.

Well 10/8W-28A1			
Type of record: Driller's log.		Altitude: About 580 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Pennsylvanian system:			
Middle series:			
Shale, light-----	6	24	
Shale, blue-----	12	36	
Limestone-----	5	41	
Shale, blue-----	11	52	
Sandstone-----	15	67	
Shale, sandy, blue-----	38	105	
Shale, blue-----	25	130	
Slate, black-----	10	140	
Coal-----	3	143	
Fire clay-----	2	145	
Limestone-----	5	150	
Sandstone-----	45	195	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/8W-28C1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan-----	13	28	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	5	33	
Slate, black-----	5	38	
Fire clay-----	2	40	
Shale, light-----	10	50	
Shale, dark-----	4	54	
Sandstone-----	3	57	
Shale, gray-----	3	60	
Shale, hard, dark-----	90	150	
Slate, black-----	5	155	
Coal-----	4	159	
Fire clay-----	2	161	
Limestone-----	9	170	
Sandstone-----	20	190	W.B.
Shale, sandy-----	15	205	

Well 10/8W-31F1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	12	12	
Pennsylvanian system:			
Middle series:			
Sandstone, gray-----	33	45	
Shale-----	20	65	
Coal-----	4	69	
Fire clay-----	6	75	
Limestone-----	4	79	
Shale and sandstone-----	54	133	
Coal-----	3	136	
Sandstone and shale-----	29	165	
Coal-----	1	166	
Sandstone, shaly-----	99	265	T.D. 2,113 ft

Well 10/8W-31M1

Type of record: Driller's log. Altitude: About 583 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	16	16	
Hardpan-----	21	37	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/8W-31M1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	17	54	
Shale, dark-----	16	70	
Coal-----	5	75	
Fire clay-----	4	79	
Shale, dark-----	6	85	
Limestone, hard-----	4	89	
Shale, dark-----	55	144	
Slate, gray-black, and coal-----	5	149	
Shale, gray-----	11	160	
Limestone, broken-----	10	170	
Limestone, hard-----	5	175	
Coal-----	1	176	
Fire clay-----	4	180	
Shale, gray-----	12	192	
Shale, dark-----	80	272	
Slate, black-----	5	277	
Coal-----	3	280	
Fire clay-----	5	285	
Shale, sandy-----	27	312	
Shale, dark-----	8	320	
Coal-----	2	322	
Sandstone-----	11	333	
Shale, gray-----	5	338	
Sandstone-----	37	375	
Coal-----	2	377	T.D. 500 ft
Well 10/8W-33G1			
Type of record: Driller's log.		Altitude: About 565 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	15	15	
Pennsylvanian system:			
Middle series:			
Slate, dark-----	35	50	
Slate, light-----	10	60	
Slate, dark-gray-----	22	82	
Slate, light-----	36	118	
Sandstone-----	22	140	
Slate, blue-----	10	150	
Slate, dark-----	15	165	
Sandstone-----	65	230	W.B.
Slate, light-----	20	250	
Slate, dark-----	10	260	
Sandstone-----	8	268	
Slate, dark-----	27	295	
Sandstone-----	25	320	W.B.; T.D. 1,900 ft

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/8W-34P1			
Type of record: Driller's log.		Altitude: About 580 feet.	
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Hardpan-----	31	51	
Gravel-----	1	52	
Pennsylvanian system:			
Middle series:			
Shale, light-----	40	92	
Sandstone-----	3	95	
Slate, black-----	5	100	
Coal-----	2	102	
Fire clay-----	3	105	
Shale, light-----	10	115	
Sandstone-----	17	132	
Shale, dark-----	73	205	
Slate, black-----	3	208	
Coal-----	2	210	
Fire clay-----	2	212	
Sandstone-----	32	244	
Shale, dark-----	2	246	
Lower (?) series:			
Slate, black-----	4	250	
Limestone-----	10	260	
Shale, blue-----	6	266	
Slate, black-----	4	270	
Shale, light-----	5	275	

Well 10/8W-35J1			
Type of record: Driller's log.		Altitude: About 610 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	26	26	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	16	42	
Shale, gray-----	67	109	
Slate, black-----	.5	109.5	
Rock and slate-----	3.5	113	Limestone (?) & slate
Slate, black-----	3	116	
Fire clay-----	2	118	
Sandstone-----	40	158	
Coal-----	.5	158.5	
Sandstone-----	8.5	167	W.B.
Shale, gray-----	19	186	
Sandstone-----	2	188	
Shale, light-gray-----	2	190	
Sandstone-----	50	240	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/8W-35N1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	12	12	
Hardpan-----	38	50	
Drift-----	20	70	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	20	90	
Slate, black-----	3	93	
Coal-----	2	95	
Shale, gray-----	5	100	
Sandstone-----	43	143	W.B.
Coal-----	2	145	
Shale, blue-----	10	155	

Well 10/8W-36F1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	23	23	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	49	72	
Slate, black-----	3.5	75.5	
Coal-----	2	77.5	
Fire clay-----	7.5	85	
Sandstone-----	38	123	W.B.
Shale, dark-gray-----	3	126	W.B.
Sandstone-----	23	149	W.B.
Coal and slate-----	1	150	
Fire clay-----	2	152	
Sandstone-----	38	190	W.B.

Well 10/8W-36J1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Old well-----	28	28	
Pennsylvanian system:			
Middle series:			
Slate, black-----	8	36	
Fire clay-----	3	39	
Limestone, hard-----	4	43	
Shale, light-----	7	50	
Sandstone, white-----	18	68	W.B.
Coal-----	3	71	
Fire clay-----	4	75	
Shale, sandy-----	5	80	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/8W-36J1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Slate, gray-----	24	104	
Limestone, hard-----	2	106	
Fire clay-----	4	110	
Shale, light-----	4	114	
Sandstone, white-----	42	156	W.B.

Well 10/8W-36M2

Type of record: Driller's log.		Altitude: About 610 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	22	22	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	56	78	
Shale, black-----	9	87	
Coal-----	3	90	
Fire clay-----	4	94	
Sandstone, white-----	30	124	W.B.
Shale, black-----	6	130	

Well 10/8W-36N1

Type of record: Driller's log.		Altitude: About 610 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Pennsylvanian system:			
Middle series:			
Sandstone-----	12	32	
Shale, gray-----	70	102	
Slate, black-----	5	107	
Fire clay-----	3	110	
Sandstone-----	39	149	W.B.
Coal-----	2	151	

Well 10/8W-36P1

Type of record: Driller's log.		Altitude: About 580 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay, red, and hardpan-----	28	28	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	30	58	
Slate, black-----	4	62	
Coal-----	2	64	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/8W-36P1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Fire clay-----	3	67	
Shale, sandy-----	18	85	
Sandstone, white-----	25	110	W.B.
Coal-----	4	114	
Shale, dark-----	8	122	

Well 10/8W-36R1

Type of record: Driller's log.		Altitude: About 610 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	18	18	
Pennsylvanian system:			
Middle series:			
Shale-----	19	37	W.B.
Slate, black-----	5	42	
Limestone-----	1	43	
Shale, light-----	9	52	
Sandstone-----	23	75	W.B.

Well 10/9W- 1M1

Type of record: Driller's log.		Altitude: About 600 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	13	13	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	15	28	
Sandstone-----	5	33	
Shale, gray-----	1.5	34.5	
Shale, dark-----	2	36.5	
Shale, gray-----	14.5	51	
Sandstone, gray-----	2	53	
Shale, gray-----	4	57	
Sandstone, very hard-----	5	62	
Shale, gray-----	31	93	
Shale, blue-----	17	110	
Shale, gray-----	5	115	
Shale, blue-----	7	122	
Shale, gray-----	35.5	157.5	
Shale, dark-----	1.5	159	
Coal-----	1	160	
Shale, gray-----	3	163	
Limestone-----	4	167	
Shale, gray-----	9	176	
Shale, sandy, dark-----	3	179	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W- 1M1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Slate, black-----	3	182	
Coal-----	3	185	
Fire clay-----	2	187	
Shale, sandy-----	7	194	
Shale, blue-----	23	217	
Shale, sandy-----	6	223	
Shale, blue-----	21	244	
Slate, black-----	2	246	
Coal-----	1	247	
Shale, gray-----	2.5	249.5	
Shale, sandy, gray-----	8.5	258	
Shale, gray-----	12	270	

Well 10/9W- 2A1

Type of record: Driller's log.	Altitude: About 570 feet.		
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	1	18	
Sandstone-----	5	23	
Shale, sandy-----	5	28	
Shale, gray-----	9	37	
Shale, blue-----	48	85	
Shale, gray-----	16	101	
Coal-----	2.5	103.5	
Fire clay-----	1.5	105	
Limestone-----	3	108	
Shale, gray-----	8	116	
Sandstone, gray-----	7	123	
Shale, soft-----	1	124	
Slate, black-----	3.5	127.5	
Coal-----	3	130.5	
Fire clay-----	3	133.5	
Sandstone-----	2	135.5	
Shale, gray-----	7.5	143	
Shale, blue-----	15	158	
Shale, gray-----	14	172	
Shale, blue-----	3	175	
Coal-----	2.5	177.5	
Fire clay-----	4.5	182	
Sandstone, gray-----	5	187	
Shale, sandy, gray-----	6	193	
Sandstone, dark-gray-----	39	232	
Shale, gray-----	1.5	233.5	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W- 2A1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Sandstone, gray-----	15.5	249	
Shale, blue-----	5	254	
Shale, gray-----	9	263	
Sandstone, gray-----	7	270	
Well 10/9W- 2B2			
Type of record: Driller's log.		Altitude: About 580 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan-----	4	19	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	4	23	
Shale, gray-----	24	47	
Shale, blue-----	49	96	
Shale, gray-----	18	114	
Coal and rock-----	2	116	Coal and limestone (?)
Fire clay-----	1	117	
Limestone-----	2.5	119.5	
Shale, gray-----	9	128.5	
Sandstone, gray-----	6	134.5	
Slate, black-----	4	138.5	
Coal-----	3.5	142	
Fire clay-----	5.5	147.5	
Shale, gray-----	7.5	155	
Shale, blue-----	13	168	
Shale, gray-----	12	180	
Shale, blue-----	5	185	
Coal-----	2.5	187.5	
Fire clay-----	4	191.5	
Sandstone, gray-----	36.5	228	
Shale, blue-----	2.5	230.5	
Sandstone, gray-----	38	268.5	
Shale, blue-----	8.5	277	

Well 10/9W- 2B3			
Type of record: Driller's log.		Altitude: About 570 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	17	17	
Hardpan-----	26	43	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	32	75	
Shale, sandy-----	18	93	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W- 2B3--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	12	105	
Slate, dark-----	10	115	
Coal and shale-----	4	119	
Limestone, hard-----	3	122	W.B.
Shale, gray-----	5	127'	
Sandstone-----	5	132	W.B.
Limestone-----	3	135	

Well 10/9W- 2E2

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

Quaternary system:			
Recent and Pleistocene (?) series:			
Clay-----	16	16	
Hardpan-----	14	30	
Shale, brown-----	5	35	Clay (?)
Shale, gray-----	5	40	Do
Shale, green-----	10	50	Do
Pennsylvanian system:			
Middle series:			
Shale, gray-----	10	60	
Shale, dark-----	57	117	
Shale, gray-----	6	123	
Coal-----	2	125	
Limestone, hard-----	2	127	
Shale, gray-----	10	137	
Sandstone-----	3	140	
Shale, gray-----	1	141	
Limestone-----	2	143	
Shale-----	3	146	
Coal-----	4	150	
Fire clay-----	2	152	
Shale, light-----	15	167	

Well 10/9W- 2H1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	15	15	
Hardpan-----	16	31	
Pennsylvanian system:			
Middle series:			
Sandstone-----	12	43	
Shale, dark-----	17	60	
Shale, sandy-----	32	92	
Shale, light-----	8	100	W.B.
Shale, dark-----	15	115	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W- 2H1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	3	118	
Limestone-----	2	120	W.B.
Shale, light-----	2	122	
Sandstone-----	6	128	W.B.
Limestone, brown-----	8	136	
Slate, black-----	2	138	
Coal-----	2	140	
Shale, sandy-----	15	155	
Shale, dark-----	20	175	

Well 10/9W- 3Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface and mud-----	18	18	
Hardpan-----	10	28	
Sand and gravel-----	7	35	
Pennsylvanian system:			
Middle series:			
Shale, soft, gray-----	10	45	
Shale, dark-----	3	48	
Coal-----	2	50	
Fire clay-----	8	58	
Shale, sandy-----	7	65	
Sandstone-----	10	75	W.B.
Shale, sandy-----	13	88	
Sandstone, dark-----	12	100	W.B.
Shale, sandy-----	10	110	
Shale, dark-----	4	114	

Well 10/9W- 3Q3

Type of record: Driller's log. Altitude: About 569 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay and sandy-----	40	40	
Gravel and sand-----	7	47	
Pennsylvanian system:			
Middle series:			
Coal-----	1	48	
Sandstone, hard-----	52	100	
Shale, sandy-----	43	143	
Coal-----	2	145	
Shale-----	15	160	
Limestone-----	13	173	Coal at 163 ft
Shale-----	57	230	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W- 3Q3--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Sandstone-----	150	380	
Coal-----	7	387	T.D. 1,200 ft
Well 10/9W- 3R1			
Type of record: Driller's log.		Altitude: About 570 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay and sand-----	21	21	
Gumbo, green-----	11	32	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	13	45	
Coal-----	3	48	
Fire clay-----	8	56	
Limestone, sandy-----	12	68	
Sandstone, white-----	6	74	W.B.
Limestone, sandy-----	8	82	
Well 10/9W- 4L1			
Type of record: Driller's log.		Altitude: About 550 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay and sand-----	25	25	
Hardpan, gray-----	32	57	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	13	70	
Sandstone-----	10	80	
Shale, dark-----	5	85	
Sandstone, dark-----	5	90	W.B.
Slate, dark-----	5	95	
Coal-----	3	98	
Fire clay-----	2	100	
Sandstone-----	35	135	
Well 10/9W- 6E1			
Type of record: Driller's log.		Altitude: About 496 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Soil, dirt, soft-----	8	8	
Gravel, coarse-----	11	19	W.B.
Pennsylvanian system:			
Middle series:			
Shale-----	2	21	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W- 8M1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	12	12	
Sand-----	5	17	
Pennsylvanian system:			
Middle series:			
Limestone-----	13	30	
Shale, sandy-----	22	52	
Sandstone-----	11	63	W.B.
Shale-----	1	64	

Well 10/9W- 9P1

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

Quaternary system:			
Recent and Pleistocene (?) series:			
Old hole-----	28	28	
Hardpan and soft shale-----	7	35	Hardpan and clay (?)
Pennsylvanian system:			
Middle series:			
Limestone, hard-----	5	40	
Shale, gray-----	2	42	
Red rock, cavy-----	6	48	
Limestone, broken-----	5	53	
Shale, sandy-----	22	75	
Limestone-----	3	78	
Sandstone-----	20	98	W.B.
Shale, dark-----	22	120	
Coal-----	2	122	
Fire clay-----	5	127	
Sandstone-----	16	143	W.B.
Limestone-----	4	147	

Well 10/9W- 9Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	20	20	
Hardpan-----	4	24	
Mud, gray-----	4	28	
Pennsylvanian system:			
Middle series:			
Limestone, hard-----	5	33	
Red rock-----	8	41	
Shale, sandy-----	10	51	
Shale, dark-----	6	57	
Sandstone, white-----	39	96	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W- 9Q1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	17	113	
Coal-----	3	116	
Fire clay-----	7	123	
Sandstone, white-----	13	136	W.B.
Limestone, hard-----	1	137	

Well 10/9W-10C1

Type of record: Driller's log.		Altitude: About 565 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	16	16	
Hardpan-----	6	22	
Pennsylvanian system:			
Middle series:			
Sandstone-----	28	50	W.B.
Shale, dark-----	10	60	

Well 10/9W-10E1

Type of record: Driller's log.		Altitude: About 565 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	18	18	
Hardpan-----	10	28	
Pennsylvanian system:			
Middle series:			
Limestone-----	2	30	
Shale, dark-----	2	32	
Sandstone-----	37	69	W.B.
Shale-----	1	70	

Well 10/9W-11C1

Type of record: Driller's log.		Altitude: About 610 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	28	28	
Pennsylvanian system:			
Middle series:			
Sandstone-----	17	45	W.B.
Shale, dark-----	22	67	
Coal-----	3	70	
Fire clay-----	4	74	
Shale, gray-----	5	79	
Sandstone-----	7	86	W.B.
Shale, sandy-----	6	92	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W-11E1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay and sand-----	19	19	
Pennsylvanian system:			
Middle series:			
Sandstone-----	24	43	W.B.
Shale, dark-----	22	65	
Coal-----	2	67	
Fire clay-----	6	73	
Limestone, sandy-----	7	80	W.B.
Sandstone-----	15	95	

Well 10/9W-11E2

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay and soil-----	6	6	
Hardpan-----	10	16	
Pennsylvanian system:			
Middle series:			
Sandstone-----	34	50	W.B.
Shale, dark-----	17	67	
Coal-----	2	69	
Fire clay-----	1	70	
Shale, gray-----	10	80	

Well 10/9W-11K1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Old well-----	19	19	
Hardpan-----	6	25	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	6	31	
Sandstone, white-----	31	62	W.B.
Slate, gray-----	6	68	
Coal-----	1	69	
Fire clay-----	3	72	
Shale, gray-----	4	76	
Limestone, broken-----	9	85	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W-11M1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, red-----	20	20	
Pennsylvanian system:			
Middle series:			
Sandstone, white-----	38	58	W.B.
Shale, blue-----	21	79	
Coal-----	2	81	W.B.
Fire clay-----	3	84	
Sandstone-----	16	100	W.B.

Well 10/9W-13E1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	14	14	
Hardpan-----	6	20	
Pennsylvanian system:			
Middle series:			
Sandstone-----	45	65	W.B.
Shale, dark-----	7	72	
Shale, sandy-----	8	80	W.B.

Well 10/9W-13K1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	25	25	
Pennsylvanian system:			
Middle series:			
Shale-----	10	35	
Sandstone-----	30	65	W.B.
Shale-----	15	80	
Coal-----	3	83	
Shale-----	7	90	
Limestone-----	40	130	
Shale-----	--	130	

Well 10/9W-13M1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	18	18	
Hardpan-----	12	30	
Pennsylvanian system:			
Middle series:			
Sandstone-----	35	65	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W-13M1--Continued

Material	Thick-ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	10	75	
Slate, blue-----	5	80	

Well 10/9W-14A1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	21	21	
Pennsylvanian system:			
Middle series:			
Sandstone-----	56	77	W.B.
Slate, dark-----	3	80	

Well 10/9W-14B1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	21	21	
Pennsylvanian system:			
Middle series:			
Sandstone-----	44	65	W.B.
Slate and coal-----	6	71	
Fire clay-----	4	75	
Shale, gray-----	3	78	

Well 10/9W-14E2

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

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	16	16	
Hardpan-----	6	22	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	6	28	
Sandstone-----	46	74	W.B.
Shale, gray-----	11	85	
Sandstone-----	4	89	W.B.
Limestone, hard-----	7	96	
Sandstone-----	6	102	W.B.
Limestone, hard-----	4	106	
Shale, sandy-----	14	120	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W-14E3

Type of record: Driller's log.		Altitude: About 590 feet.	
Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	16	16	
Hardpan-----	4	20	
Pennsylvanian system:			
Middle series:			
Sandstone-----	47	67	W.B.
Shale, dark-----	8	75	

Well 10/9W-14G1

Type of record: Driller's log.		Altitude: About 600 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow, and hardpan-----	20	20	
Pennsylvanian system:			
Middle series:			
Sandstone, dark-----	4	24	
Sandstone, light-----	46	70	W.B.
Shale, dark-----	2	72	

Well 10/9W-14H1

Type of record: Driller's log.		Altitude: About 600 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	22	22	
Pennsylvanian system:			
Middle series:			
Sandstone, brown-----	8	30	
Sandstone, white-----	26	56	W.B.
Sandstone, dark-----	11	67	
Shale, dark-----	11	78	

Well 10/9W-14J2

Type of record: Driller's log.		Altitude: About 600 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Hardpan-----	19	19	
Pennsylvanian system:			
Middle series:			
Sandstone-----	5	24	
Shale, sandy-----	6	30	
Sandstone-----	35	65	W.B.
Shale, dark-----	10	75	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W-14L5

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

Material	Thick ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	16	16	
Hardpan-----	4	20	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	12	32	
Sandstone-----	38	70	W.B.
Shale, dark-----	5	75	
Coal-----	3	78	
Fire clay-----	4	82	
Shale, sandy-----	3	85	W.B.
Limestone, hard-----	5	90	
Shale, sandy-----	7	97	

Well 10/9W-14M1

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

Recent and Pleistocene series:			
Surface and clay-----	12	12	
Hardpan-----	5	17	
Pennsylvanian system:			
Middle series:			
Slate, gray-----	13	30	
Shale, sandy-----	12	42	
Sandstone, white-----	14	56	W.B.
Slate, dark-----	14	70	
Coal-----	3	73	
Fire clay-----	4	77	
Shale, gray-----	10	87	
Sandstone-----	6	93	W.B.
Shale, gray-----	2	95	

Well 10/9W-14M5

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

Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	18	18	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	3	21	
Shale, sandy-----	7	28	
Sandstone-----	40	68	W.B.
Shale, dark-----	7	75	
Coal-----	3	78	
Fire clay-----	3	81	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W-14M8

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	17	17	
Hardpan-----	9	26	
Pennsylvanian system:			
Middle series:			
Red rock and shale-----	9	35	
Shale, sandy-----	23	58	
Sandstone-----	34	92	W.B.
Shale, dark-----	15	107	
Coal-----	3	110	
Fire clay-----	5	115	

Well 10/9W-14N1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	18	18	
Mud, gray-----	5	23	
Pennsylvanian system:			
Middle series:			
Fire clay-----	7	30	
Shale, light-----	5	35	
Sandstone, dark-----	10	45	W.B.
Sandstone, light-----	28	73	W.B.
Shale, dark-----	5	78	
Shale, sandy-----	2	80	

Well 10/9W-14Q2

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

Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	15	15	
Pennsylvanian system:			
Middle series:			
Limestone, hard-----	3	18	
Shale, gray-----	3	21	
Red rock-----	4	25	
Shale, sandy-----	49	74	
Slate, dark-----	16	90	
Coal and shale-----	4	94	
Fire clay-----	6	100	
Limestone-----	2	102	
Sandstone-----	20	122	W.B.
Shale, sandy-----	8	130	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W-15F1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	20	20	
Pennsylvanian system:			
Middle series:			
Shale, soft-----	3	23	
Shale, sandy-----	12	35	
Shale, gray-----	25	60	
Sandstone-----	25	85	W.B.
Shale, dark-----	6	91	
Coal-----	2	93	
Shale, gray-----	12	105	

Well 10/9W-15J1

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

Quaternary system:			
Recent and Pleistocene series:			
Open hole-----	18	18	
Hardpan-----	4	22	
Pennsylvanian system:			
Middle series:			
Shale, soft-----	4	26	
Shale, sandy-----	16	42	
Sandstone-----	36	78	W.B.
Shale, dark-----	8	86	

Well 10/9W-15J4

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

Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	15	15	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	20	35	
Sandstone-----	13	48	W.B.
Shale, sandy-----	7	55	
Sandstone-----	12	67	W.B.
Slate, black, and coal-----	5	72	
Fire clay-----	3	75	

Well 10/9W-15K1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, red-----	16	16	
Hardpan-----	14	30	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W-15K1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, soft-----	11	41	
Shale, sandy-----	9	50	
Sandstone, white-----	37	87	W.B.
Shale, dark-----	8	95	
Coal-----	3	98	W.B.
Fire clay-----	3	101	
Limestone, brown-----	4	105	

Well 10/9W-16C1			
Type of record: Driller's log.		Altitude: About 540 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan-----	19	37	
Pennsylvanian system:			
Middle series:			
Shale, light-----	41	78	
Limestone-----	5	83	
Shale, soft-----	8	91	
Sandstone-----	19	110	
Shale, dark-----	5	115	
Sandstone-----	20	135	
Shale (?), dark-----	5	140	
Sandstone-----	10	150	
Shale-----	5	155	
Sandstone-----	--	155	

Well 10/9W-16E1			
Type of record: Driller's log.		Altitude: About 540 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	10	10	
Sand and gravel-----	15	25	
Hardpan-----	8	33	
Pennsylvanian system:			
Middle series:			
Limestone, hard-----	5	38	
Red rock, cavy-----	9	47	
Shale, light-----	28	75	
Sandstone-----	34	109	W.B.
Shale, dark-----	6	115	
Coal-----	3	118	
Fire clay-----	6	124	
Sandstone-----	6	130	
Limestone, hard-----	3	133	
Shale, sandy-----	18	151	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W-17J1

Type of record: Driller's log.

Altitude: About 540 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	20	20	
Sand, soft-----	8	28	
Muck, blue-----	14	42	
Pennsylvanian system:			
Middle series:			
Limestone, hard-----	7	49	
Red rock, cavy-----	8	57	
Shale, sandy-----	3	60	
Sandstone-----	14	74	W.B.
Coal-----	2	76	
Shale, sandy-----	4	80	
Sandstone-----	10	90	W.B.
Shale, sandy-----	5	95	
Sandstone-----	25	120	W.B.
Coal-----	6	126	
Fire clay-----	1	127	
Sandstone, white-----	19	146	W.B.
Limestone-----	2	148	
Limestone, sandy-----	2	150	

Well 10/9W-17N1

Type of record: Driller's log.

Altitude: About 540 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	16	16	
Hardpan-----	3	19	
Gravel-----	12	31	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	17	48	
Coal-----	1	49	
Fire clay-----	5	54	
Shale, light-----	6	60	
Limestone, hard-----	5	65	
Shale, soft-----	4	69	
Red rock-----	14	83	
Shale, sandy-----	9	92	
Sandstone, dark-----	22	114	W.B.
Sandstone, white-----	29	143	
Shale, dark-----	5	148	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W-18P1

Type of record: Driller's log.

Altitude: About 540 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil and yellow clay-----	17	17	
Sand and some gravel-----	2	19	W.B.
Hardpan, solid, yellow-----	6	25	
Hardpan, gray-----	10	35	W.B.
Hardpan, gray, and sand streaks--	2	37	W.B.
Hardpan, gray-----	11	48	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	5	53	
Slate, gray-----	2	55	

Well 10/9W-20D1

Type of record: Driller's log.

Altitude: About 540 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow, and sand-----	25	25	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	5	30	Trace of coal
Shale, dark-----	3	33	
Shale, light-----	19	52	
Shale, sandy, gray-----	26	78	
Shale, gray-----	3	81	
Shale, sandy-----	9	90	
Shale, gray-----	8	98	
Limestone-----	4	102	
Shale, gray-----	2	104	

Well 10/9W-20J1

Type of record: Driller's log.

Altitude: About 565 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	21	21	
Sand, light-----	6	27	
Muck, blue-----	19	46	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	4	50	
Muck and shale-----	6	56	
Shale, sandy-----	4	60	W.B.
Limestone, hard-----	7	67	
Red rock-----	5	72	
Shale, sandy-----	4	76	W.B.
Sandstone-----	19	95	W.B.
Shale, sandy-----	8	103	
Limestone, sandy-----	7	110	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W-21A1

Type of record: Driller's log.

Altitude: About 565 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	18	18	
Hardpan-----	2	20	
Quicksand-----	8	28	W.B.
Pennsylvanian system:			
Middle series:			
Shale, soft-----	18	46	
Limestone, hard-----	6	52	
Red rock-----	7	59	
Shale, light-----	20	79	
Sandstone-----	48	127	W.B.
Shale, dark-----	4	131	
Coal-----	4	135	
Fire clay-----	5	140	
Shale, light-----	6	146	
Sandstone-----	6	152	W.B.
Limestone, hard-----	5	157	
Limestone, sandy-----	8	165	
Limestone, brown-----	10	175	

Well 10/9W-21L1

Type of record: Driller's log.

Altitude: About 590 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	22	22	
Hardpan-----	18	40	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	22	62	
Shale, dark-----	8	70	
Shale, green-----	2	72	
Limestone, hard-----	5	77	
Red rock-----	5	82	
Shale, gray-----	8	90	
Limestone, sandy-----	5	95	
Shale, gray-----	8	103	
Sandstone-----	44	147	W.B.
Shale, dark-----	3	150	

Well 10/9W-21N1

Type of record: Driller's log.

Altitude: About 565 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, red-----	14	14	
Hardpan-----	10	24	
Mud, blue-----	28	52	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W-21N1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	21	73	W.B.
Limestone, hard-----	5	78	
Shale, dark-----	5	83	
Shale, red and gray-----	3	86	
Shale, dark-----	14	100	
Sandstone-----	27	127	W.B.

Well 10/9W-21Q1			
Type of record: Driller's log.		Altitude: About 565 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	15	15	
Sand and gravel-----	23	38	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	5	43	W.B.
Limestone, hard-----	4	47	
Red rock-----	5	52	
Shale, sandy-----	11	63	
Shale, gray-----	9	72	
Limestone, broken-----	6	78	W.B.
Limestone, hard-----	4	82	
Sandstone-----	30	112	
Shale, dark-----	13	125	

Well 10/9W-22E2			
Type of record: Driller's log.		Altitude: About 565 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	18	18	
Sand and gravel-----	24	42	
Hardpan and gravel-----	11	53	
Pennsylvanian system:			
Middle series:			
Sandstone, white-----	17	70	W.B.

Well 10/9W-22M1			
Type of record: Driller's log.		Altitude: About 550 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Old well-----	18	18	
Hardpan-----	7	25	
Sand and gravel-----	18	43	
Hardpan-----	9	52	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W-22M1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Sandstone, white-----	30	82	W.B.
Shale, dark-----	11	93	

Well 10/9W-23J1

Type of record: Driller's log.

Altitude: About 610 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	16	16	
Hardpan-----	5	21	
Pennsylvanian system:			
Middle series:			
Sandstone, white-----	46	67	W.B.
Shale, dark-----	8	75	
Coal-----	2	77	
Fire clay-----	3	80	
Shale, gray-----	8	88	
Sandstone-----	29	117	W.B.
Limestone, hard-----	4	121	
Shale, sandy-----	9	130	

Well 10/9W-23M1

Type of record: Driller's log.

Altitude: About 580 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	18	18	
Hardpan-----	6	24	
Pennsylvanian system:			
Middle series:			
Limestone, hard-----	3	27	
Shale, light-----	2	29	
Red rock-----	6	35	
Shale, sandy-----	10	45	
Shale, light-----	7	52	
Shale, sandy-----	8	60	
Sandstone, white-----	35	95	W.B.
Shale, dark-----	14	109	
Coal-----	4	113	
Shale, dark-----	5	118	
Shale, light-----	4	122	
Sandstone, white-----	22	144	W.B.
Shale, gray-----	3	147	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W-24M1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Shale, yellow and dark-----	20	20	Clay (?)
Pennsylvanian system:			
Middle series:			
Sandstone-----	45	65	W.B.
Slate, dark-----	5	70	
Coal-----	4	74	
Fire clay-----	3	77	
Shale, sandy-----	11	88	W.B.

Well 10/9W-25N1

Type of record: Sample study by George E. Heap. Altitude: About 585 feet.

Record missing-----	85	85	
Pennsylvanian system:			
Middle series:			
Coal-----	5	90	
Sandstone, medium, subangular to subrounded, well-cemented, white-----	5	95	
Sandstone, medium, subangular to subrounded, well-cemented, white, many phosphatic (?) nodules-----	5	100	
Sandstone, medium, subangular to subrounded, well-cemented, white, with some tan to buff- tan, argillaceous and dolo- mitic limestone-----	5	105	
Limestone, very finely crystal- line, partly dolomitic, tan- gray mottled, and gray-white, soft, shale-----	5	110	
Sandstone, medium to fine- grained, calcareous cement, white to tan, and a streak of brown-tan dolomite-----	10	120	
Limestone, argillaceous, dolo- mitic, brown-tan with white to tan, calcareous cement, medium to fine-grained sandstone-----	5	125	
Sandstone, fine, subrounded, very argillaceous, grading into sandy shale-----	10	135	
Shale, sandy, fine gray-----	20	155	
Shale, gray-----	5	160	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W-25N1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Sandstone, fine very argillaceous, gray, much pyrite and/or marcasite and a streak of buff, finely crystalline limestone-----	5	165	
Shale, silty, light-gray-----	5	170	
Shale, light-gray-----	15	185	
Dolomite, brown, and black shale with a trace of coal-----	5	190	
Shale, black and gray, and coal---	5	195	
Limestone, fossiliferous, rather soft, white to buff, some dark-brown dolomite, and coal and black shale-----	8	203	
Fire clay, white, and gray shale--	7	210	
Fire clay, white-----	5	215	
Coal-----	1	216	
Sandstone, fine, subrounded, micaceous, poorly-cemented-----	4	220	
Shale, finely micaceous, slightly calcareous, dark-gray; dark-gray to gray-buff argillaceous, somewhat pyritic, medium to finely crystalline limestone, few fossils; streak of gray-white gypsum-----	7	227	
Limestone, finely-granular, very dolomitic, gray-----	8	235	
Coal-----	5	240	
Coal, trace of dark, siliceous limestone (coal caved?)-----	5	245	
Underclay, soft, light, with a trace of gray-white pyritic dolomitic limestone, fossiliferous-----	5	250	
Shale, very sandy, micaceous, gray, with many carbonaceous inclusions-----	10	260	
Sandstone, fine-grained, very argillaceous, dark-gray, many rounded crystalline pyrite clusters, and gray, micaceous, very sandy shale-----	10	270	
Shale, soft, light-gray-----	35	305	
Shale, hard, black-----	10	315	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W-25N1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, very sandy, micaceous, soft, light-gray, grading into micaceous, argillace- ous, medium to fine, poorly- assorted, subangular to subrounded sandstone-----	5	320	
Shale, very sandy, micaceous, soft, light-gray, grading into micaceous, argillace- ous, medium to fine, poorly- assorted, subangular to subrounded sandstone, with many carbonaceous streaks and inclusions-----	10	330	
Shale, very sandy, micaceous, soft, light-gray, grading into micaceous, argillace- ous, medium to fine sub- angular to subrounded sandstone, with a streak of buff, soft shale-----	5	335	
Shale, dark-gray-----	10	345	
Shale, dark-gray, with a streak of white, finely-cemented sandstone-----	5	350	
Shale, soft, gray-white-----	5	355	
Sandstone, medium to coarse, subangular, fairly well-ce- mented-----	5	360	
Sandstone, medium to coarse, subangular, poorly-cemented---	10	370	
Sandstone, coarse, subangular, poorly-cemented-----	10	380	
Sandstone, coarse, subangular to subrounded, loose-----	35	415	T.D. 2,200 ft

Well 10/9W-26B1			
Type of record: Driller's log.	Altitude: About 600 feet.		
Quaternary system:			
Recent and Pleistocene (?) series:			
Clay-----	10	10	
Shale, sandy-----	15	25	Clay (?)
Shale, green-----	8	33	Do
Pennsylvanian system:			
Middle series:			
Shale, gray-----	4	37	
Sandstone-----	2	39	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W-26B1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	8	47	
Limestone, sandy-----	3	50	
Shale, sandy, broken-----	6	56	
Limestone, sandy-----	5	61	
Shale, gray-----	4	65	
Sandstone-----	5	70	W.B.
Shale, gray-----	20	90	W.B.
Coal-----	5	95	
Shale, gray-----	11	106	

Well 10/9W-26C1

Type of record: Driller's log.		Altitude: About 595 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	20	20	
Hardpan-----	12	32	
Pennsylvanian system:			
Middle series:			
Shale, light-----	18	50	
Shale, sandy-----	25	75	
Limestone, sandy-----	15	90	
Shale, dark-----	12	102	
Coal-----	2	104	W.B.
Fire clay-----	4	108	
Sandstone-----	12	120	W.B.
Limestone, hard-----	5	125	
Shale, sandy-----	8	133	

Well 10/9W-26D1

Type of record: Driller's log.		Altitude: About 580 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Pennsylvanian system:			
Middle series:			
Shale, light-----	18	36	
Limestone-----	5	41	
Shale, yellow-----	5	46	
Shale, light-----	19	65	
Sandstone-----	5	70	
Limestone-----	5	75	
Sandstone-----	50	125	
Coal-----	3	128	
Fire clay-----	7	135	
Sandstone-----	13	148	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W-26D1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	5	153	
Sandstone-----	9	162	
Shale, gray-----	16	178	
Shale, dark-----	17	195	
Shale, light-----	5	200	
Shale, dark-----	10	210	
Shale, light-----	25	235	
Shale, gray-----	30	265	
Coal-----	1	266	
Limestone-----	4	270	
Shale, light-----	10	280	
Limestone-----	10	290	
Slate, black-----	10	300	
Limestone-----	5	305	
Slate, black-----	7	312	
Coal-----	5	317	
Shale, light-----	18	335	
Shale, gray-----	15	350	
Limestone-----	12	362	
Shale, dark-----	20	382	
Shale, light-----	8	390	
Coal-----	2	392	
Fire clay-----	3	395	
Shale, dark-----	30	425	
Sandstone-----	45	470	W.B.
Shale-----	6	476	
Well 10/9W-26E1			
Type of record: Driller's log.		Altitude: About 590 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	14	14	
Sandstone-----	2	16	Cemented sand (?)
Shale, gray-----	3	19	Clay (?)
Gravel-----	2	21	
Pennsylvanian system:			
Middle series:			
Limestone-----	3	24	
Shale-----	12	36	
Red rock and green shale-----	1	37	
Shale, gray-----	70	107	
Coal and slate-----	2	109	
Shale, sandy-----	121	230	
Coal or black slate-----	2	232	
Shale-----	25	257	
Limestone-----	5	262	
Slate, black-----	15	277	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W-26E1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal and slate-----	2	279	
Shale, dark-----	89	368	
Sandstone-----	54	422	T.D. 2,175 ft

Well 10/9W-26J1

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

Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	17	17	
Hardpan-----	14	31	
Pennsylvanian system:			
Middle series:			
Sandstone-----	21	52	
Shale, dark-----	11	63	
Coal-----	3	66	W.B.
Fire clay-----	4	70	
Shale, dark-----	3	73	
Limestone-----	4	77	W.B.
Shale, gray-----	23	100	

Well 10/9W-26J2

Type of record: Driller's log. Altitude: About 584 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	20	20	
Shale, blue-----	2	22	Clay (?)
Gravel and mud-----	4	26	W.B.
Pennsylvanian system:			
Middle series:			
Fire clay-----	4	30	
Sandstone-----	23	53	
Shale, blue-----	11	64	
Coal-----	5	69	
Shale, gray-----	8	77	
Limestone-----	4	81	
Shale, gray-----	19	100	
Shale, dark-----	28	128	
Sandstone-----	2	130	
Shale, hard-----	6	136	
Shale, gray-----	32	168	
Coal-----	4	172	
Shale, gray-----	1	173	
Limestone, brown-----	2	175	
Shale, gray-----	1	176	
Sandstone, broken, gray-----	6	182	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W-26J2--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	2	184	
Limestone, hard-----	6	190	
Coal-----	5	195	
Shale, dark-----	1	196	
Sandstone, hard-----	2	198	
Fire clay-----	1	199	
Sandstone, shells and shale-----	6	205	
Shale, gray-----	90	295	
Limestone, hard-----	1	296	
Shale, gray-----	1	297	
Coal-----	4	301	"Gas"
Shale, gray-----	24	325	
Shale, dark-----	13	338	
Sandstone and shale-----	9	347	"Gas"
Sandstone-----	35	382	W.B. at 355 ft
Coal-----	4	386	
Shale-----	14	400	T.D. 1,420 ft

Well 10/9W-26N1			
Type of record: Driller's log.	Altitude: About 550 feet.		
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Hardpan-----	30	50	
Pennsylvanian system:			
Middle series:			
Sandstone-----	15	65	W.B.
Shale, dark-----	15	80	
Coal-----	3.5	83.5	
Shale-----	4.5	88	
Sandstone-----	5	93	W.B.
Shale, light-----	--	93	

Well 10/9W-26P1			
Type of record: Driller's log.	Altitude: About 570 feet.		
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	20	20	
Pennsylvanian system:			
Middle series:			
Limestone-----	4	24	
Fire clay, soft-----	6	30	
Red rock-----	11	41	
Slate and limestone-----	3	44	W.B.
Shale, dark-----	18	62	
Sandstone-----	18	80	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W-28D1

Type of record: Driller's log.

Altitude: About 565 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	17	17	
Mud and gravel-----	16	33	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	41	74	W.B.
Limestone-----	4	78	
Red rock-----	7	85	
Shale, sandy-----	10	95	

Well 10/9W-28E1

Type of record: Driller's log.

Altitude: About 560 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	30	30	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	18	48	
Slate and coal-----	7	55	W.B.
Fire clay-----	3	58	
Limestone, hard-----	2	60	
Shale, gray-----	6	66	
Limestone, hard-----	4	70	
Shale and red rock-----	7	77	
Limestone, hard-----	4	81	
Sandstone-----	4	85	W.B.
Shale, gray-----	15	100	
Sandstone-----	35	135	W.B.
Shale, gray-----	3	138	

Well 10/9W-28H1

Type of record: Driller's log.

Altitude: About 560 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	15	15	
Hardpan-----	25	40	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	10	50	
Shale, light-----	20	70	
Limestone-----	3	73	
Shale, light-----	7	80	
Limestone, sandy-----	5	85	
Shale, sandy, broken-----	21	106	W.B.
Shale-----	4	110	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

		Well 10/9W-30R1		
Type of record: Driller's log.				Altitude: About 565 feet.
Material	Thick- ness (feet)	Depth (feet)	Remarks	
Quaternary system:				
Recent and Pleistocene series:				
Surface-----	25	25		
Sand-----	5	30		
Pennsylvanian system:				
Middle series:				
Slate, black-----	4	34		
Coal-----	1	35		
Shale, light-----	30	65		
Shale, gray-----	20	85		
Shale, sandy-----	15	100		
Shale, light-----	7	107		
Sandstone-----	5	112		
Limestone-----	6	118		
Shale, light-----	9	127		
Limestone-----	5	132		
Shale, sandy-----	40	172		
Sandstone-----	8	180		
Shale-----	10	190		
Coal-----	4	194		
Fire clay-----	6	200		
Sandstone-----	25	225		
Shale, light-----	60	285		

		Well 10/9W-31P1		
Type of record: Driller's log.				Altitude: About 549 feet.
Material	Thick- ness (feet)	Depth (feet)	Remarks	
Quaternary system:				
Recent and Pleistocene series:				
Surface-----	30	30		
Sand and gravel-----	10	40		
Pennsylvanian system:				
Middle series:				
Shale-----	10	50		
Sandstone-----	10	60		
Shale-----	10	70		
Limestone-----	5	75		
Shale-----	10	85		
Limestone-----	5	90		
Red rock-----	10	100		
Sandstone-----	80	180		
Coal-----	3	183		
Clay-----	7	190		
Sandstone-----	40	230		
Shale, gray-----	70	300		
Shale, soft-----	30	330		
Coal-----	4	334	T.D. 1,268 ft	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W-32F1

Type of record: Driller's log.

Altitude: About 563 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	40	40	
Pennsylvanian system:			
Middle series:			
Shale-----	10	50	
Coal-----	3	53	
Shale, gray-----	27	80	
Limestone-----	5	85	
Shale-----	5	90	
Coal and shale-----	5	95	
Shale-----	10	105	
Limestone-----	5	110	
Red rock-----	10	120	
Sandstone-----	50	170	
Shale-----	10	180	
Sandstone-----	10	190	
Coal-----	5	195	
Clay-----	5	200	
Shale, sandy-----	50	250	
Slate, gray-----	30	280	
Limestone-----	5	285	
Shale-----	10	295	
Shale, dark-----	15	310	
Coal-----	6	316	T.D. 1,386 ft.

Well 10/9W-32M1

Type of record: Driller's log.

Altitude: About 565 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, red-----	14	14	
Hardpan-----	24	38	
Pennsylvanian system:			
Middle series:			
Slate, gray-----	7	45	
Shale, dark-----	49	94	
Limestone, hard-----	2	96	
Shale, gray-----	5	101	
Limestone, hard-----	3	104	
Shale, gray-----	2	106	
Red rock, cavy-----	5	111	
Shale, sandy-----	37	148	
Sandstone-----	40	188	W.B.
Shale, gray-----	9	197	
Limestone, hard-----	4	201	
Sandstone-----	29	230	W.B.
Slate, dark-----	2	232	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W-32N1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	17	17	
Hardpan-----	18	35	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	7	42	
Shale, dark-----	30	80	
Shale, gray-----	7	87	
Limestone, hard-----	3	90	
Shale, light-----	2	92	
Limestone, hard-----	2	94	
Red rock-----	9	103	
Shale, sandy, gray-----	39	142	
Sandstone, gray-----	28	170	W.B.
Shale, sandy, dark-----	5	175	
Limestone, hard-----	4	179	
Slate, dark-----	6	185	

Well 10/9W-33A1

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

Dug well-----	40	40	
Pennsylvanian system:			
Middle series:			
Shale and limestone-----	53	93	
Shale, sandy-----	7	100	
Sandstone-----	10	110	W.B.
Slate, gray-----	6	116	
Coal-----	4	120	
Fire clay-----	--	120	

Well 10/9W-33B1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	16	16	
Hardpan-----	12	28	
Mud, soft-----	5	33	
Sand and gravel-----	27	60	W.B.
Mud, soft-----	5	65	
Shale-----	10	75	
Shale, dark-----	13	88	
Shale, sandy-----	8	96	
Sandstone, dark-----	24	120	
Sandstone, light-----	11	131	W.B.
Coal-----	4	135	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W-33H1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	26	26	
Sand-----	39	65	W.B.
Gravel and hardpan-----	--	65	

Well 10/9W-33L1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	16	16	
Hardpan-----	6	22	
Pennsylvanian system:			
Middle series:			
Shale, soft-----	7	29	
Limestone, hard-----	4	33	
Red rock, cavy-----	11	44	
Shale, sandy, dark-----	46	90	
Sandstone, dark-----	23	113	W.B.
Shale, dark-----	5	118	
Slate, black, and coal-----	7	125	
Fire clay-----	3	128	
Limestone, hard-----	7	135	
Sandstone, white-----	9	144	W.B.
Shale, sandy, light-----	21	165	
Shale, sandy, dark-----	25	190	
Shale, dark-----	33	223	

Well 10/9W-34B1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	16	16	
Hardpan-----	7	23	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	5	28	
Sandstone-----	30	58	W.B.
Shale, dark-----	17	75	
Coal-----	3	78	
Shale, gray-----	11	89	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W-34N1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	17	17	
Hardpan-----	5	22	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	5	27	
Sandstone-----	33	60	W.B.
Shale, dark-----	14	74	
Coal-----	3	77	
Fire clay-----	4	81	
Limestone, hard-----	5	85	
Sandstone-----	13	98	W.B.
Shale, sandy-----	13	111	

Well 10/9W-34N2

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	15	15	
Hardpan-----	5	20	
Shale, sandy, soft-----	10	30	Sandy clay (?)
Hardpan-----	2	32	
Sand and gravel-----	8	40	W.B.
Hardpan-----	12	52	
Shale, green-----	9	61	Clay (?)

Well 10/9W-34R1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	15	15	
Hardpan-----	9	24	
Sand and gravel-----	22	46	
Pennsylvanian system:			
Middle series:			
Shale, light-----	11	57	
Shale, sandy-----	7	64	
Sandstone-----	8	72	W.B.
Shale, dark-----	25	97	
Coal-----	2	99	
Fire clay-----	3	102	
Sandstone, white-----	28	130	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/9W-34R2

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	15	15	
Hardpan-----	12	27	
Shale, soft-----	5	32	Clay (?)
Hardpan-----	16	48	
Pennsylvanian system:			
Middle series:			
Shale, light-----	7	55	
Sandstone, white-----	37	92	W.B.
Slate and coal-----	5	97	
Fire clay-----	4	101	
Limestone, hard-----	4	105	
Shale, sandy-----	7	112	
Sandstone, white-----	15	127	W.B.
Shale, gray-----	11	138	

Well 10/9W-36E1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	14	14	
Hardpan-----	16	30	
Shale, dark-----	15	45	Clay (?)
Sand and gravel-----	5	50	W.B.

Well 10/9W-36M1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	15	15	
Sand and gravel-----	13	28	
Hardpan-----	12	40	
Pennsylvanian system:			
Middle series:			
Sandstone, brown-----	8	48	
Sandstone, white-----	7	55	W.B.
Shale, dark-----	27	82	
Coal-----	3	85	
Fire clay-----	3	88	
Shale, gray-----	10	98	
Limestone, sandy-----	6	104	W.B.
Shale, gray-----	13	117	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/10W- 1M1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene (?) series:			
Clay-----	16	16	
Sandstone-----	22	38	Cemented sand (?)
Shale, cavy, gray-----	12	50	Clay (?)
Shale, green-----	10	60	Clay (?)
Pennsylvanian system:			
Middle series:			
Limestone-----	5	65	
Shale, red-----	7	72	
Shale, brown-----	5	77	
Shale, sandy-----	3	80	
Shale-----	30	110	
Sandstone-----	26	136	W.B.

Well 10/10W- 1M2

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

Quaternary system:			
Recent and Pleistocene (?) series:			
Clay-----	18	18	
Gravel and shale-----	2	20	W.B., gravel and clay (?)
Sandstone-----	27	47	Cemented sand (?)
Shale, sandy, brown-----	18	65	Sandy clay (?)
Gravel-----	3	68	W.B.

Well 10/10W- 2E1

Type of record: Driller's log. Altitude: About 470 feet.

Quaternary system:			
Recent and Pleistocene series:			
Gravel-----	19	19	
Pennsylvanian system:			
Middle series:			
Limestone-----	8	27	
Shale-----	17	44	
Shale, sandy-----	16	60	
Sandstone-----	37	97	W.B.

Well 10/10W- 2P1

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

Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	20	20	
Sand-----	25	45	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	8	53	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/10W- 2P1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	29	82	
Limestone, hard-----	5	87	
Fire clay-----	6	93	
Shale-----	7	100	
Shale, sandy-----	13	113	
Sandstone, light-----	42	155	W.B.
Shale, gray-----	3	158	
Sandstone, blue-----	7	165	W.B.
Coal-----	4	169	
Shale-----	6	175	
Sandstone-----	15	190	
Shale, green-----	25	215	

Well 10/10W- 3A1

Type of record: Driller's log.

Altitude: About 480 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	45	45	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	30	75	
Sandstone-----	20	95	W.B.
Shale, dark-----	12	107	
Coal-----	3	110	W.B.
Fire clay-----	5	115	
Shale, sandy-----	12	127	
Limestone-----	2	129	W.B.
Shale, light-----	31	160	

Well 10/10W- 3N1

Type of record: Driller's log.

Altitude: About 470 feet.

Quaternary system:			
Recent and Pleistocene series:			
Gravel-----	35	35	W.B.
Hardpan-----	8	43	
Pennsylvanian system:			
Middle series:			
Limestone-----	3	46	
Red rock-----	3	49	
Shale, gray-----	5	54	
Limestone sandy-----	6	60	
Shale, gray-----	5	65	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

		Well 10/10W- 8Q1	
Type of record: Driller's log.		Altitude: About 450 feet.	
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	112	112	
Pennsylvanian system:			
Middle series:			
Slate, gray-----	20	132	
Coal-----	2	134	
Slate, gray-----	48	182	
Coal-----	2	184	W.B.
Fire clay-----	5	189	
Shale, gray-----	33	222	
Coal-----	2	224	
Shale, dark-----	36	260	
Slate, light-brown-----	15	275	
Limestone, dark-----	5	280	
Coal-----	5	285	
Shale, sandy-----	12	297	
Shale, muddy-----	31	328	
Coal-----	4	332	
Shale, sandy-----	7	339	
Coal-----	3	342	
Sandstone-----	20	362	W.B.; "Gas"; T.D. 2,315 ft

		Well 10/10W- 9N1	
Type of record: Driller's log.		Altitude: About 460 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Drift-----	10	10	
Pennsylvanian system:			
Middle series:			
Limestone-----	2	12	
Mud, blue-----	22	34	
Limestone-----	8	42	
Coal-----	3	45	
Fire clay-----	7	52	
Limestone-----	4	56	
Slate-----	23	79	
Sandstone-----	34	115	
Coal-----	2	115	
Slate-----	17	132	
Limestone-----	6	138	
Slate, gray-----	32	170	
Shale, dark-----	10	180	
Slate, gray-----	52	232	
Shale, brown, and coal-----	5	237	
Shale, sandy-----	13	250	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/10W- 9N1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Limestone, hard-----	4	254	
Coal-----	6	260	"Gas"
Shale, sandy-----	8	268	
Shale and sandstone-----	6	274	"Gas"
Slate-----	3	277	"Gas"

Well 10/10W-11J1

Type of record: Driller's log.

Altitude: About 535 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	17	17	
Hardpan-----	15	32	
Pennsylvanian system:			
Middle series:			
Shale, light-----	13	45	
Shale, dark-----	9	54	
Shale, gray-----	26	80	
Limestone, hard-----	2	82	
Shale, light-----	3	85	
Limestone, hard-----	4	89	
Red rock-----	5	94	
Shale, gray-----	16	110	
Shale, sandy-----	35	145	
Sandstone-----	11	156	W. B.
Slate, gray-----	14	170	
Coal-----	2	172	
Shale, light-----	6	178	
Limestone-----	3	181	
Sandstone-----	36	217	W. B.
Limestone, hard-----	4	221	
Shale, sandy-----	5	226	

Well 10/10W-16E1

Type of record: Driller's log.

Altitude: About 470 feet.

Quaternary system:			
Recent and Pleistocene series:			
Hardpan-----	18	18	
Gravel-----	1	19	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	40	59	
Coal-----	1	60	
Limestone, hard-----	8	68	
Shale, red-----	6	74	
Limestone-----	6	80	W. B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/10W-16E1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	40	120	
Sandstone-----	15	135	
Coal-----	4	139	
Fire clay-----	3	142	
Sandstone-----	18	160	
Shale, sandy-----	35	195	
Shale, dark-----	70	265	
Coal-----	5	270	"Gas"
Fire clay-----	5	275	
Limestone-----	10	285	
Coal-----	5	290	"Gas"
Shale, gray-----	40	330	
Coal-----	2	332	"Gas"
Shale, sandy-----	48	380	T.D. 1,040 ft

Well 10/10W-16F1

Type of record: Driller's log.		Altitude: About 550 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Dirt and clay, to gravel-----	40	40	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	5	45	
Shale, gray-----	47	92	
Limestone-----	4	96	
Shale-----	30	126	
Sandstone-----	47	173	W.B.
Coal-----	3	176	
Shale, light-gray-----	7	183	
Sandstone, broken-----	26	209	"Gas"
Shale-----	93	302	
Coal-----	1	303	
Shale, dark-----	14	317	
Sandstone, broken-----	5	322	
Coal-----	2	324	"Gas"
Shale-----	42	366	
Coal-----	2	368	"Gas"; T.D. 2,181 ft

Well 10/10W-16H1

Type of record: Driller's log.		Altitude: About 540 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Sand-----	15	15	
Pennsylvanian system:			
Middle series:			
Mud and shale-----	60	75	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/10W-16H1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale and shells-----	40	115	
Limestone-----	12	127	
Shale-----	9	136	
Shale, sandy-----	19	155	
Coal-----	5	160	
Shale-----	10	170	
Limestone-----	5	175	
Sandstone-----	3	178	
Limestone-----	5	183	
Sandstone and sandy limestone----	17	200	
Shale, sandy-----	30	230	
Shale-----	70	300	
Limestone, shelly-----	2	302	
Shale, sandy-----	58	360	
Sandstone and shale-----	10	370	T.D. 2,190 ft

Well 10/10W-17H1

Type of record: Driller's log.

Altitude: About 475 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	30	30	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	8	38	
Limestone-----	1	39	
Coal-----	1	40	
Limestone-----	6	46	
Shale, blue-----	12	58	
Shale, sandy, gray-----	37	95	
Sandstone-----	20	115	
Coal-----	4	119	
Fire clay-----	8	127	
Shale, sandy-----	38	165	
Fire clay-----	40	205	
Shale-----	34	239	
Limestone-----	2	241	
Coal-----	5	246	
Limestone-----	4	250	
Shale, sandy-----	10	260	
Sandstone-----	4	264	"Gas"
Slate, black-----	4	268	
Coal-----	4	272	
Limestone-----	2	274	
Shale, sandy-----	4	278	
Shale, dark-----	20	298	
Shale, dark-----	2	300	"Gas"

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/10W-17H1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, dark-----	7	307	"Gas"
Coal and black shale-----	3	310	
Limestone, broken, and sandstone-----	10	320	
Limestone, hard-----	3	323	
Shale, muddy, gray-----	5	328	
Shale, sandy-----	23	351	

Well 10/10W-20A1			
Type of record: Driller's log.		Altitude: About 465 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	60	60	
Pennsylvanian system:			
Middle series:			
Shale, light-gray-----	2	62	
Limestone-----	3	65	
Shale, light-gray-----	3	68	
Clay, red-----	3	71	
Shale, blue-gray-----	4	75	
Shale, sandy-----	4	79	
Limestone-----	3	82	
Shale, light-gray-----	23	105	
Shale, sandy-----	40	145	
Coal-----	3	148	
Shale, blue-----	3	151	
Clay, soft, brown-----	4	155	
Shale, gray-----	13	168	
Slate, gray-----	4	172	
Shale, gray-----	4	176	
Limestone, sandy-----	28	204	
Shale, gray-----	5	209	
Slate and coal-----	7	216	
Shale, dark-----	4	220	
Shale, sandy-----	14	234	
Shale, dark-----	4	238	
Shale, gray-----	32	270	
Shale, dark-----	22	292	
Shale, gray-----	6	298	
Shale, sandy-----	6	304	
Limestone-----	2	306	
Limestone, sandy-----	3	309	
Limestone, black-----	9	318	
Shale, black-----	2	320	
Coal-----	7	327	
Shale, dark-----	13	340	
Coal-----	8	348	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/10W-20A1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	5	353	
Shale, sandy-----	15	368	
Sandstone-----	72	440	W.B.; T.D. 970 ft

Well 10/10W-21R1			
Type of record: Driller's log.		Altitude: About 520 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Sand-----	40	40	
Hardpan-----	52	92	
Sand and gravel, streak-----	--	92	W.B.
Hardpan-----	9	101	

Well 10/10W-22L1			
Type of record: Driller's log.		Altitude: About 542 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Sand-----	40	40	
Gravel-----	40	80	
Coal, trace-----	--	80	
Sand and shale-----	26	106	Sand and clay (?)
Gravel-----	9	115	
Pennsylvanian system:			
Middle series:			
Limestone-----	4	119	
Red rock and green shale-----	2	121	
Shale, sandy, gray-----	13	134	
Shale, gray-----	18	152	
Shale, sandy, gray-----	38	190	
Coal-----	14	204	
Shale, sandy, gray-----	49	253	
Shale, sandy, dark-----	45	298	
Shale, gray-----	22	320	
Shale, gray, trace of coal-----	10	330	
Shale, sandy-----	10	340	
Limestone-----	6	346	
Coal-----	3	349	
Shale-----	36	385	
Shale, sandy, dark-----	65	450	
Sandstone-----	45	495	T.D. 1,458 ft

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/10W-24H1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Hardpan-----	18	18	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	12	30	
Sandstone-----	46	76	
Limestone-----	2	78	
Shale-----	3	81	
Limestone-----	--	81	

Well 10/10W-25A1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand and brown clay-----	23	23	
Pennsylvanian system:			
Middle series:			
Shale, hard-----	9	32	
Limestone-----	3	35	
Slate, black-----	5	40	
Coal-----	3	43	
Shale, gray-----	10	53	
Sandstone-----	5	58	
Shale, gray-----	55	113	
Shale, soft, light-----	6	119	
Limestone, hard-----	5	124	
Shale, brown-----	11	135	
Shale, gray-----	20	155	
Sandstone, very fine-grained-----	47	202	W.B.
Coal-----	1	203	

Well 10/10W-27N1

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

Quaternary system:			
Recent and Pleistocene series:			
Old hole-----	18	18	
Hardpan-----	14	32	
Pennsylvanian system:			
Middle series:			
Coal and fire clay-----	6	38	
Shale, gray-----	22	60	
Shale, dark-----	42	102	
Coal-----	1	103	
Fire clay-----	3	106	
Limestone, hard-----	5	111	
Red rock and shale-----	7	118	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/10W-27N1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Sandstone-----	8	126	W.B.
Shale, gray-----	5	131	
Limestone-----	2	133	
Sandstone-----	55	188	
Shale, dark-----	10	198	

Well 10/10W-28H1

Type of record: Driller's log.

Altitude: About 476 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	10	10	
Pennsylvanian system:			
Middle series:			
Sandstone-----	10	20	
Shale-----	65	85	
Limestone-----	2	87	
Shale, gray-----	4	91	
Limestone-----	6	97	
Red rock-----	6	103	
Shale-----	62	165	
Coal-----	5	170	
Shale, gray-----	10	180	
Sandstone-----	35	215	
Shale-----	70	285	
Coal-----	2	287	
Shale, sandy-----	12	299	
Limestone-----	2	301	
Coal-----	6	307	
Shale-----	44	351	
Coal-----	6	357	"Gas"
Shale-----	28	385	
Sandstone-----	33	418	T.D. 1,405 ft

Well 10/10W-29H1

Type of record: Driller's log.

Altitude: About 470 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	2	2	
Pennsylvanian system:			
Middle series:			
Shale-----	12	14	
Coal-----	2	16	
Clay-----	2	18	
Shale, sandy, light-----	7	25	
Sandstone-----	5	30	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/10W-29H1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy, light-----	8	38	
Shale, dark-gray-----	54	92	
Limestone, gray-----	3	95	
Sandstone, gray-----	7	102	
Well 10/10W-31N1			
Type of record: Driller's log.		Altitude: About 443 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	104	104	
Pennsylvanian system:			
Middle series:			
Red rock-----	4	108	
Shale, sandy-----	9	117	
Shale, blue-----	18	135	
Shale, sandy-----	20	155	
Shale, blue-----	37	192	
Shale, gray-----	93	285	
Coal-----	2	287	
Shale, gray-----	15	302	
Limestone-----	6	308	
Coal-----	2	310	
Shale, gray-----	65	375	
Limestone, shell-----	1	376	
Sandstone-----	64	440	W.B. ; Trace of oil
Coal-----	1	441	T.D. 2,376 ft

Well 10/10W-31R1			
Type of record: Driller's log.		Altitude: About 445 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Soil-----	2	2	
Sand-----	20	22	
Pennsylvanian system:			
Middle series:			
Shale-----	5	27	
Limestone-----	3	30	
Shale-----	47	77	
Sandstone-----	48	125	
Shale-----	12	137	
Coal-----	3	140	
Shale-----	17	157	
Sandstone-----	13	170	
Shale-----	80	250	
Limestone-----	5	255	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/10W-31R1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	5	260	
Shale, gray-----	80	340	
Sandstone, gray-----	75	415	T.D. 2,181 ft

Well 10/10W-32N1

Type of record: Driller's log.

Altitude: About 454 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	12	12	
Hardpan-----	18	30	
Pennsylvanian system:			
Middle series:			
Shale-----	30	60	
Coal-----	1	61	
Shale-----	11	72	
Limestone-----	10	82	
Shale-----	10	92	
Slate-----	8	100	
Shale, sandy-----	15	115	
Sandstone-----	27	142	
Shale, gray-----	4	146	
Shale, sandy-----	9	155	
Shale, gray-----	24	179	
Coal-----	2	181	
Shale, gray-----	7	188	
Limestone-----	2	190	
Limestone, broken, and shale-----	49	239	
Shale-----	13	252	
Coal-----	2	254	
Shale, broken, and slate-----	11	265	
Limestone, sandy-----	8	273	
Slate, black-----	4	277	
Coal-----	2	279	
Shale, broken, and limestone-----	21	300	
Shale, dark-----	30	330	
Slate, black-----	3	333	
Coal-----	2	335	
Limestone, broken-----	7	342	
Limestone, brown-----	8	350	
Limestone, sandy-----	10	360	
Sandstone-----	13	373	W.B.
Limestone, sandy-----	2	375	
Shale, sandy-----	25	400	
Sandstone-----	26	426	
Slate-----	9	435	
Limestone-----	6	441	
Sandstone-----	59	500	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/10W-33A1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil, caly, and sand-----	25	25	
Sand, fine-----	13	38	W.B.
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	22	60	
Shale, dark-gray-----	7	67	
Limestone, hard-----	3	70	
Shale-----	4	74	
Coal-----	2	76	
Shale, dark-----	6	82	
Sandstone-----	16	98	
Shale-----	52	150	
Limestone-----	8	158	
Shale-----	3	161	

Well 10/10W-35D1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand-----	18	18	
Pennsylvanian system:			
Middle series:			
Limestone, shelly-----	1	19	
Shale, dark-----	3	22	
Slate, black, and mud-----	5	27	
Coal-----	2	29	
Fire clay-----	6	35	
Shale, dark-----	61	96	
Limestone, hard-----	8	104	
Red rock-----	6	110	
Shale and limestone-----	9	119	
Shale, light-----	26	145	
Sandstone-----	25	170	W.B.
Shale, dark-----	10	180	

Well 10/10W-35D2

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

Quaternary system:			
Recent and Pleistocene series:			
Clay and fine sand-----	20	20	
Hardpan-----	37	57	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	48	105	
Coal-----	1	106	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 10/10W-35D2--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Fire clay-----	6	112	
Limestone-----	2	114	
Shale, light-----	2	116	
Limestone, hard-----	3	119	
Red rock-----	10	129	
Shale-----	2	131	
Sandstone, dark-----	9	140	
Shale-----	5	145	
Sandstone-----	49	194	
Shale, dark-----	7	201	
Coal-----	4	205	
Fire clay-----	16	221	
Sandstone-----	10	231	

Well 10/10W-36Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	8	8	
Hardpan-----	4	12	
Pennsylvanian system:			
Middle series:			
Shale and sandstone-----	23	35	
Slate, black-----	3	38	
Coal-----	1	39	
Fire clay-----	2	41	
Shale-----	19	60	
Limestone, white-----	10	70	
Shale-----	10	80	

Well 11/ 8W- 1A1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan-----	16	34	W.B.
Softpan-----	3	37	
Pennsylvanian system:			
Middle series:			
Shale, dark-gray-----	3	40	
Coal-----	2.5	42.5	
Clay-----	.5	43	
Shale, sandy, gray-----	17	60	
Shale, dark-gray-----	7	67	
Coal-----	1	68	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W- 1A1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Clay-----	2	70	W.B.
Sandstone-----	4	74	
Shale, sandy, gray-----	14	88	
Coal-----	6	94	
Clay-----	1	95	
Shale, sandy, gray-----	5	100	
Sandstone-----	5	105	
Shale, sandy, gray-----	7	112	
Coal-----	3	115	
Clay-----	2.5	117.5	
Sandstone-----	2.5	120	
Shale, sandy, gray-----	12	132	
Coal-----	2	134	
Clay-----	6	140	
Shale, sandy, soft, light-gray---	10	150	
Shale, sandy, gray-----	40	190	
Lower (?) series:			
Shale, gray-----	8	198	
Sandstone-----	19	217	
Coal-----	4	221	
Shale, sandy, gray-----	21	242	

Well 11/ 8W- 1J1			
Type of record: Driller's log.		Altitude: About 600 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Pan, sandy-----	26	36	
Pennsylvanian system:			
Middle series:			
Coal-----	1.5	37.5	
Clay-----	2.5	40	
Shale, sandy, gray-----	18	58	
Slate, black-----	7	65	
Coal-----	1	66	
Clay-----	2	68	
Shale, sandy-----	16	84	
Coal-----	6.5	90.5	
Clay-----	1.5	92	
Shale, dark-----	3	95	
Sandstone-----	10	105	
Shale, sandy, gray-----	40	145	
Shale, soft, light-gray-----	5	150	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W- 2C1

Type of record: Driller's log.

Altitude: About 575 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	12	12	
Pan-----	4	16	
Sand and gravel-----	2	18	
Pan-----	15	33	
Sand and gravel-----	4	37	
Pan-----	33	70	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	5	75	
Coal-----	1.5	76.5	
Clay-----	.5	77	
Shale, gray-----	18	95	
Shale, dark-gray-----	7	102	
Slate, black-----	6	108	
Clay-----	4.5	112.5	
Sandstone-----	13.5	126	
Shale, sandy, dark-gray-----	.5	126.5	
Sandstone-----	1	127.5	
Shale, sandy, gray-----	7.5	135	
Shale, dark-gray-----	2	137	

Well 11/ 8W- 2D1

Type of record: Driller's log.

Altitude: About 550 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	6	6	
Sand-----	14	20	
Pan-----	12	32	
Pennsylvanian system:			
Middle series:			
Shale, sandy, gray-----	35	67	
Coal-----	3	70	
Shale, sandy, gray-----	15	85	
Shale, gray-----	2	87	
Shale, dark-gray-----	3	90	
Slate, black-----	10	100	
Coal-----	1	101	
Clay-----	1	102	
Shale, gray-----	21	123	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W- 3B1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Sand and gravel-----	24	44	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	20	64	
Sandstone-----	10	74	

Well 11/ 8W- 3P1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan-----	17	35	
Sand, fine-----	14	49	W.B.
Hardpan-----	17	66	
Pennsylvanian system:			
Middle series:			
Sandstone-----	1	67	

Well 11/ 8W- 3Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Hardpan-----	17	31	
Pennsylvanian system:			
Middle series:			
Sandstone-----	45	76	W.B.
Coal-----	3	79	
Fire clay-----	2	81	

Well 11/ 8W- 3R1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	12	12	
Hardpan-----	19	31	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	26	57	
Sandstone-----	13	70	
Shale, gray-----	17	87	
Sandstone-----	5	92	
Shale, light-----	5	97	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W- 3R1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, dark-----	12	109	
Slate, black-----	3	112	
Shale, gray-----	3	115	
Limestone-----	2	117	
Sandstone, white-----	23	140	W.B.

Well 11/ 8W- 3R2			
Type of record: Driller's log.		Altitude: About 570 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Clay (?), sandy-----	9	24	
Sand and gravel-----	4	28	W.B.

Well 11/ 8W- 4N1			
Type of record: Driller's log.		Altitude: About 565 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Hardpan-----	53	73	
Sand and gravel-----	2	75	
Hardpan-----	4	79	
Gravel-----	3	82	W.B.
Hardpan-----	9	91	

Well 11/ 8W- 5C1			
Type of record: Driller's log.		Altitude: About 555 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan-----	5	20	
Sand and gravel-----	14	34	
Shale, sandy-----	7	41	Sandy clay (?)
Sand, coarse-----	1.5	42.5	
Shale, sandy-----	1.5	44	Sandy clay (?)
Sand and gravel-----	6	50	W.B.

Well 11/ 8W- 5N1			
Type of record: Driller's log.		Altitude: About 545 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	22	22	
Sand-----	5	27	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W- 5N1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Hardpan-----	57	84	
Gravel-----	2	86	
Hardpan-----	4	90	
Pennsylvanian system:			
Middle series:			
Sandstone-----	24	114	
Slate, black-----	1	115	
Well 11/ 8W- 5R1			
Type of record: Driller's log.		Altitude: About 565 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan-----	38	53	
Sand-----	2	55	W.B.
Gravel, dirty, and hardpan-----	5	60	W.B.
Well 11/ 8W- 6A1			
Type of record: Driller's log.		Altitude: About 555 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	
Sand, gray-----	5	22	
Shale, sandy-----	12	34	Sandy clay (?)
Sand and gravel, coarse-----	15.5	49.5	W.B.
Well 11/ 8W- 6N1			
Type of record: Driller's log.		Altitude: About 550 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Sand-----	31	41	
Gravel-----	2	43	
Hardpan-----	3	46	
Drift-----	22	68	
Sand-----	10	78	W.B.
Gravel-----	4	82	W.B.
Hardpan-----	.5	82.5	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W- 6Q1

Type of record: Driller's log.

Altitude: 550 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	25	25	
Sand-----	2	27	
Hardpan-----	17	44	
Sand-----	3	47	
Hardpan-----	13	60	
Gravel and hardpan-----	6	66	

Well 11/ 8W- 6R1

Type of record: Driller's log.

Altitude: About 535 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	8	8	
Sand, dirty, brown-----	20	28	
Hardpan, gray-----	37	65	
Softpan-----	12	77	
Sand, dirty, gray-----	7	84	
Wash, dark-----	13	97	
Sand and gravel-----	2	99	W.B.

Well 11/ 8W- 6R2

Type of record: Driller's log.

Altitude: About 550 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Sand, dirty-----	8	28	
Softpan-----	4	32	
Sand and gravel-----	5	37	W.B.

Well 11/ 8W- 7G1

Type of record: Driller's log.

Altitude: About 550 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface and hardpan-----	24	24	
Sand, blue-----	4	28	
Shale, gravelly-----	18	46	Gravelly clay (?)
Pennsylvanian system:			
Middle series:			
Shale, gray-----	30	76	
Coal-----	.5	76.5	
Fire clay-----	6.5	83	
Shale, sandy-----	5	88	
Shale, gray-----	6	94	
Coal-----	1	95	
Shale, gray-----	3	98	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W- 7G1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Limestone-----	4	102	
Shale, gray-----	5	107	
Limestone-----	5.5	112.5	
Slate, gray-----	2.5	115	
Slate, black-----	7	122	
Jack-----	2	124	
Mine opening-----	6	130	
Fire clay-----	4	134	
Shale, dark-----	42	176	
Slate, black, and steel bands---	3.5	179.5	
Coal-----	2	181.5	
Fire clay-----	6.5	188	
Shale, dark-----	25	213	
Shale, hard, dark-----	5	218	
Slate, black-----	7	225	
Fire clay-----	3	228	
Shale, gray-----	9	237	
Coal-----	2	239	
Fire clay-----	14	253	
Shale, gray-----	7	260	
Sandstone-----	26	286	W.B.
Shale, sandy-----	2	288	

Well 11/ 8W- 7H1			
Type of record: Driller's log.	Altitude: About 550 feet.		
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	
Sand-----	4	21	
Shale, sandy, gray-----	3	24	Sandy clay (?)
Shale, gray-----	37	61	Clay (?)
Shale, sandy, gray-----	7	68	Sandy clay (?)
Sand and gravel-----	3	71	W.B.
Pennsylvanian system:			
Middle series:			
Shale, gray-----	1	72	

Well 11/ 8W- 8H1			
Type of record: Driller's log.	Altitude: About 550 feet.		
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	16.5	36.5	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W- 8H1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Sandstone-----	3	39.5	
Shale, gray-----	5.5	45	
Limestone-----	4	49	
Slate, black-----	5	54	
Coal-----	3	57	
Fire clay-----	2	59	
Shale, gray-----	45	104	
Slate, black-----	5	109	
Coal-----	3	112	
Fire clay-----	2	114	
Shale, soft, gray-----	33	147	
Coal-----	2	149	
Fire clay and shale-----	20	169	
Slate, black-----	5	174	
Coal-----	2	176	
Fire clay-----	2	178	
Sandstone-----	4	182	
Shale, sandy, gray-----	28	210	
Sandstone, white-----	26	236	W.B.
Lower series:			
Shale, blue-----	10	246	

Well 11/ 8W- 8P1

Type of record: Driller's log.

Altitude: About 560 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, red-----	17	17	
Clay, yellow-----	9	26	
Hardpan-----	36	62	
Pennsylvanian system:			
Middle series:			
Shale, soft-----	8	70	
Shale, gray-----	6	76	
Slate, black-----	4	80	
Coal-----	2	82	
Fire clay-----	4	86	
Shale, gray-----	14	100	
Limestone, hard-----	1	101	
Coal-----	3	104	
Limestone, hard-----	3	107	
Slate, dark-----	3	110	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W- 8P3			
Type of record: Driller's log.		Altitude: About 550 feet.	
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	6	6	
Clay, sandy, yellow-----	21	27	
Sand, trace-----	--	27	W.B.
Hardpan, gray-----	11	38	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	27	65	
Limestone and shale streaks-----	3	68	
Slate, black, and coal-----	13	81	W.B.
Fire clay-----	4	85	
Well 11/ 8W- 9D1			
Type of record: Driller's log.		Altitude: About 570 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	12	29	
Sandstone-----	2	31	
Sandstone and sandy shale-----	6	37	
Slate, black-----	3.5	40.5	
Coal-----	3	43.5	
Shale-----	35	78.5	
Fire clay-----	13.5	92	
Steel band-----	3	95	
Slate-----	3	98	
Coal-----	1	99	
Fire clay-----	6	105	
Shale-----	32	137	
Coal-----	2	139	
Shale-----	23	162	
Slate, black-----	5	167	
Coal-----	2	169	
Fire clay-----	5	174	
Shale, gray-----	7	181	
Sandstone-----	5	186	
Coal and soft clay-----	5	191	
Sandstone-----	9	200	
Shale, gray-----	14	214	
Sandstone-----	21	235	W.B.
Lower (?) series:			
Shale, white-----	10	245	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W- 9D2

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan-----	26	36	
Gravel-----	12	48	W.B.

Well 11/ 8W-10D1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan, gray-----	12	30	
Softpan, dark-----	46	76	
Pennsylvanian system:			
Middle series:			
Slate, soft, black-----	2	78	
Fire clay (?)-----	3	81	
Shale (?), light-----	5	86	
Shale (?), light-blue-----	10	96	
Slate, gray-----	24	120	
Shale, sandy, gray-----	17	137	
Coal-----	1	138	
Fire clay, blue-----	2	140	
Slate, sandy, gray-----	8	148	
Shale, gray-----	15	163	
Slate, black-----	5	168	
Chip slate, black-----	2	170	
Coal-----	1	171	
Fire clay, dark-----	3	174	
Shale, gray-----	6	180	
Coal-----	3	183	
Fire clay (?)-----	5	188	
Shale, gray-----	12	200	
Sandstone, gray-----	18	218	
Shale, sandy, blue-----	2	220	

Well 11/ 8W-10E1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan-----	35	45	
Gravel-----	11	56	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-10H1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	12.5	12.5	
Pennsylvanian system:			
Middle series:			
Sandstone-----	22.5	35	
Shale, gray-----	3	38	
Sandstone-----	5	43	
Shale, gray-----	16	59	
Sandstone-----	26	85	
Shale, sandy, gray-----	30	115	
Slate, black-----	5	120	
Fire clay-----	3	123	
Shale, gray-----	12	135	
Sandstone and shale-----	10	145	
Coal-----	1.5	146.5	
Fire clay-----	2.5	149	
Shale, sandy, dark-----	21	170	
Sandstone-----	20	190	
Shale, gray-----	15	205	
Coal-----	3	208	
Fire clay-----	3	211	
Shale, gray-----	21	232	
Sandstone-----	3	235	
Shale, sandy, gray-----	15	250	

Well 11/ 8W-10M1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel, mucky-----	78	78	
Sand and gravel-----	--	78	W.B.

Well 11/ 8W-11D1

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	15	15	
Gravel-----	5	20	
Pennsylvanian system:			
Middle series:			
Shale-----	12	32	
Sandstone-----	6	38	
Shale, sandy-----	40	78	
Sandstone-----	26	104	
Shale, black-----	8	112	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-12P1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, dark-----	5	45	
Sandstone, gray-----	15	60	
Shale, gray-----	12	72	
Limestone-----	3	75	
Slate-----	3	78	
Coal-----	3	81	
Shale, dark-----	12	93	
Shale, sandy, light-----	23	116	
Sandstone-----	31	147	
Shale, light-----	18	165	
Shale, dark-----	5	170	
Coal-----	4	174	
Shale, dark-----	8	182	
Shale, gray-----	2	184	
Limestone, brown-----	10	194	
Shale, muddy, brown-----	9	203	
Shale, light-----	6	209	
Shale, dark-----	27	236	
Shale, light-----	7	243	
Sandstone-----	21	264	
Lower (?) series:			
Shale, dark-----	4	268	
Sandstone, sharp, hard-----	20	288	
Limestone, sandy, hard-----	15	303	
Shale, light-----	9	312	
Shale, dark-----	9	321	
Sandstone, hard-----	29	350	
Shale, broken, green-----	2	352	
Sandstone, hard-----	38	390	
Shale, gray-----	2	392	T.D. 1,685 ft

Well 11/ 8W-12R1			
Type of record: Driller's log.		Altitude: About 615 feet.	
Old hole-----	40	40	
Pennsylvanian system:			
Middle series:			
Shale-----	2	42	
Sandstone-----	3	45	
Shale, gray-----	12	57	
Sandstone-----	5	62	
Shale, dark-----	65	127	
Shale, sandy-----	4	131	
Shale, gray-----	2	133	
Shale, blue-----	14	147	
Sandstone-----	35	182	W.B.
Coal-----	--	182	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-13J1			
Type of record: Driller's log.		Altitude: About 617 feet.	
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	20	20	
Pennsylvanian system:			
Middle series:			
Shale-----	8	28	
Sandstone, broken-----	4	32	
Shale-----	9	41	
Coal-----	2	43	
Shale, sandy-----	22	65	
Sandstone, broken-----	20	85	
Slate-----	3	88	
Shale, dark-----	12	100	
Shale, gray-----	3	103	
Sandstone-----	81	184	
Coal-----	5	189	
Shale, light-----	3	192	
Shale, dark-----	16	208	
Coal-----	2	210	
Shale, dark-----	59	269	
Lower (?) series:			
Shale, gray-----	22	291	
Coal-----	1	292	
Shale, light-----	21	313	
Shale, dark-----	76	389	
Sandstone-----	117	506	T.D. 835 ft

Well 11/ 8W-13N1			
Type of record: Driller's log.		Altitude: About 605 feet.	
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	28	28	
Pennsylvanian system:			
Middle series:			
Sandstone-----	27	55	
Shale-----	25	80	
Coal-----	3	83	
Shale, light-----	6	89	
Sandstone-----	26	115	W.B.

Well 11/ 8W-13P1			
Type of record: Driller's log.		Altitude: About 610 feet.	
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	24	24	
Hardpan-----	15	39	

Table 3.--Selected well log, Vigo County, Indiana--Continued

Well 11/ 8W-13P1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Sandstone-----	21	60	
Shale, sandy-----	16	76	
Shale, sandy, blue-----	74	150	
Sandstone, white-----	45	195	W.B.

Well 11/ 8W-14B2			
Type of record: Driller's log.		Altitude: About 608 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	3	3	
Clay-----	9	12	
Sand and gravel-----	9	21	
Pennsylvanian system:			
Middle series:			
Sandstone-----	26	47	W.B.
Coal-----	2	49	
Shale, sandy-----	8	57	
Shale-----	19	76	
Shale, black-----	4	80	
Shale, light-----	3	83	
Shale, sandy-----	7	90	
Sandstone-----	6	96	W.B.
Shale-----	4	100	
Coal-----	2	102	
Underclay-----	2	104	
Sandstone-----	6	110	
Shale, sandy-----	8	118	
Sandstone-----	62	180	
Shale-----	23	203	
Coal-----	1	204	
Shale, sandy-----	6	210	
Sandstone-----	13	223	
Shale-----	18	241	
Coal-----	.5	241.5	
Underclay-----	1.5	243	
Shale-----	15	258	
Sandstone-----	15	273	
Lower (?) series:			
Shale-----	3	276	
Coal-----	1	277	
Underclay-----	3	280	
Shale, sandy-----	17	297	
Shale-----	10	307	
Coal-----	1.5	308.5	
Underclay-----	1.5	310	
Sandstone-----	4	314	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-14B2--Continued

Material	Thick ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower (?) series:			
Shale-----	10	324	
Coal-----	1	325	
Underclay-----	1	326	
Shale-----	1	327	
Sandstone-----	98	425	T.D. 703 ft

Well 11/ 8W-14M1

Type of record: Driller's log.		Altitude: About 560 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	10	10	
Hardpan-----	44	54	
Sand and gravel-----	.5	54.5	W.B.
Hardpan-----	.5	55	

Well 11/ 8W-14N1

Type of record: Driller's log.		Altitude: About 590 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	14	14	
Pennsylvanian system:			
Middle series:			
Sandstone-----	5	19	
Shale, gray-----	8	27	
Fire clay and gravel-----	5	32	Fire clay and concretions (?)
Shale, sandy-----	18	50	
Sandstone-----	5	55	
Shale, sandy-----	26	81	
Shale, gray-----	17	98	
Shale, sandy-----	12	110	
Shale, light-gray-----	14	124	
Shale, dark-gray-----	6	130	
Slate, black-----	4	134	
Coal-----	2	136	
Shale, sandy, gray-----	33	169	W.B.
Coal-----	3	172	W.B.
Shale, sandy, gray-----	18	190	

Well 11/ 8W-15E2

Type of record: Driller's log.		Altitude: About 560 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	3	20	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-15E2--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	3	23	
Shale, sandy-----	25	48	
Sandstone-----	6	54	
Shale, sandy-----	7	61	
Sandstone-----	13	74	
Coal-----	2.5	76.5	
Bottoms-----	3.5	80	
Shale, sandy, dark-----	7	87	
Shale, blue-----	11	98	
Slate, black-----	6	104	
Fire clay-----	4	108	
Shale, sandy-----	7	115	
Coal-----	1.5	116.5	
Fire clay-----	1.5	118	
Shale, gray-----	14	132	
Sandstone-----	13	145	W.B.
Shale, gray-----	1	146	
Sandstone-----	14	160	
Shale, white-----	6	166	
Sandstone and shale-----	14	180	

Well 11/ 8W-15G1			
Type of record:	Driller's log.	Altitude:	About 544 feet.
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	36	36	
Pennsylvanian system:			
Middle series:			
Coal-----	3	39	
Shale-----	42	81	
Shale, sandy-----	20	101	
Sandstone-----	24	125	W.B.
Shale, dark-----	45	170	
Shale, gray-----	60	230	
Lower (?) series:			
Shale, dark-----	18	248	
Coal-----	2	250	
Shale, sandy-----	32	282	
Limestone-----	2	284	
Sandstone-----	6	290	
Shale, dark-----	46	336	
Sandstone-----	60	396	T.D. 1,602 ft

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-15J1

Type of record: Driller's log. Altitude: About 569 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	12	12	
Sand-----	8	20	
Gravel-----	2	22	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	28	50	
Sandstone-----	15	65	W.B.
Sandstone, shaly-----	15	80	
Coal-----	3	83	
Shale, dark-----	29	112	
Shale, gray-----	5	117	
Sandstone, broken-----	11	128	
Coal-----	4	132	
Shale, gray-----	10	142	
Sandstone-----	29	171	
Lower (?) series:			
Shale, gray-----	31	202	
Shale, white-----	39	241	
Shale, gray-----	21	262	
Coal-----	2	264	
Shale, light-----	21	285	
Sandstone, broken-----	20	305	
Shale, sandy, dark-----	30	335	
Shale, gray-----	20	355	T.D. 802 ft

Well 11/ 8W-15N1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	5	19	
Sandstone, soft-----	5	24	
Sandstone, pasty, light-----	46	70	
Sandstone, pasty, light-gray-----	10	80	
Coal-----	1	81	
Fire clay, hard-----	2	83	
Slate, sandy, gray-----	--	83	

Well 11/ 8W-16G1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-16G1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	2	18	
Shale, sandy-----	14	32	Sandy clay (?)
Shale, gray-----	10	42	Clay (?)
Coal, broken, and gravel-----	3	45	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	7	52	
Slate, black-----	4	56	
Coal-----	1	57	
Fire clay-----	9	66	
Limestone-----	3	69	
Shale, gray-----	8	77	
Shale, sandy-----	10	87	
Sandstone-----	2	89	
Shale, sandy-----	7	96	
Shale, dark-----	22	118	
Coal-----	3	121	
Fire clay-----	1	122	
Shale, dark-----	7	129	
Sandstone-----	10	139	
Shale, dark-----	11	150	
Slate, black-----	5	155	
Fire clay-----	3	158	
Shale, sandy-----	12	170	
Coal-----	2.5	172.5	
Fire clay-----	7.5	180	
Sandstone-----	34	214	W.B.

Well 11/ 8W-16P1

Type of record: Driller's log.

Altitude: About 575 feet.

Quaternary system:		
Recent and Pleistocene series:		
Surface-----	15	15
Soil, sandy-----	5	20
Hardpan-----	10	30
Pennsylvanian system:		
Middle series:		
Slate, black-----	3	33
Coal-----	5	38
Fire clay-----	7	45
Shale, gray-----	45	90
Shale, sandy-----	10	100
Shale, gray-----	16	116
Coal-----	4	120
Fire clay-----	3	123
Sandstone-----	2	125

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-16P1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	25	150	
Slate, black-----	7	157	
Fire clay-----	3	160	
Sandstone-----	32	192	
Shale, gray-----	6	198	
Coal-----	3	201	
Fire clay-----	11	212	
Sandstone-----	4	216	

Well 11/ 8W-16P3

Type of record: Driller's log.		Altitude: About 560 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Sand and gravel-----	4	22	
Pennsylvanian system:			
Middle series:			
Shale, light-----	12	34	
Sandstone-----	16	50	W.B.

Well 11/ 8W-16P4

Type of record: Driller's log.		Altitude: About 575 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	35	35	
Pennsylvanian system:			
Middle series:			
Slate, black-----	13	48	
Coal-----	4	52	
Fire clay-----	2	54	
Shale, light-----	21	75	
Shale, sandy-----	50	125	
Sandstone-----	5	130	
Coal-----	3	133	
Sandstone-----	12	145	
Shale, dark-----	15	160	
Slate, black-----	5	165	
Shale, light-----	--	165	

Well 11/ 8W-16P5

Type of record: Driller's log.		Altitude: About 570 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	19	19	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-16P5--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	6	25	
Mud, blue-----	9	34	
Slate, black-----	8	42	
Coal-----	5	47	
Fire clay-----	11	58	
Shale, dark-----	15	73	
Shale, sandy-----	24	97	
Shale, dark-----	6	103	
Sandstone-----	8	111	
Shale, sandy, dark-----	8	119	
Shale, gray-----	9	128	
Coal-----	2	130	
Fire clay-----	3	133	
Shale, dark-----	23	156	
Slate, black-----	7	163	
Limestone, white-----	2	165	
Fire clay-----	2	167	
Shale, sandy-----	9	176	
Shale, dark-----	8	184	
Coal-----	3	187	
Fire clay-----	4	191	
Sandstone-----	1	192	
Sandstone, white-----	40	232	W.B.

Well 11/ 8W-16Q1

Type of record: Driller's log.

Altitude: About 565 feet.

Quaternary system:			
Recent and Pleistocene series:			
Open well-----	16	16	
Hardpan-----	22	38	
Pennsylvanian system:			
Middle series:			
Sandstone-----	62	100	
Coal-----	2	102	
Sandstone-----	8	110	
Shale, blue-----	25	135	
Sandstone-----	11	146	
Shale, dark-----	2	148	

Well 11/ 8W-16Q6

Type of record: Driller's log.

Altitude: About 560 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Sand-----	6	21	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-1606--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Shale, sandy-----	7	28	Sandy clay (?)
Shale, gray-----	2	30	Clay (?)
Sand and gravel-----	9	39	
Pennsylvanian system:			
Middle series:			
Limestone-----	1.5	40.5	
Shale, light-gray-----	24.5	65	
Shale, dark-gray-----	18	83	
Shale, sandy-----	7	90	
Shale, gray-----	3	93	
Shale, dark-----	1	94	
Coal-----	1	95	
Shale, dark-----	6	101	
Sandstone, dark-----	3	104	
Shale, blue-----	12	116	
Shale, dark-----	4	120	
Limestone-----	1.5	121.5	
Slate, black-----	2.5	124	
Coal-----	2	126	
Fire clay-----	2.5	128.5	
Sandstone-----	2	130.5	
Shale, gray-----	12.5	143	
Shale, dark-----	1	144	
Coal-----	.5	144.5	
Shale, gray-----	5.5	150	
Sandstone, dark-----	4	154	
Sandstone, light-gray-----	43	197	W.B.
Shale, gray-----	3	200	
Sandstone, gray-----	4	204	
Shale, gray-----	1	205	

Well 11/ 8W-16R1

Type of record: Driller's log.

Altitude: About 565 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	
Hardpan-----	15	32	
Pennsylvanian system:			
Middle series:			
Sandstone-----	4	36	
Shale, light-----	16	52	
Shale, sandy-----	4	56	
Sandstone-----	41	97	
Shale, blue-----	39	136	
Shale, light-----	4	140	
Sandstone-----	5	145	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-16R1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, light-----	5	150	
Shale, dark-----	4	154	
Coal-----	2	156	
Shale, light-----	9	165	
Sandstone-----	6	171	W.B.

Well 11/ 8W-16R3			
Type of record: Driller's log.		Altitude: About 565 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Sand, gravel, and sandy shale----	15	35	Sand, gravel, and sandy clay (?)
Pennsylvanian system:			
Middle series:			
Sandstone-----	5	40	
Shale, gray-----	7	47	
Sandstone-----	51	98	
Coal-----	2	100	
Fire clay-----	5	105	
Shale, blue-----	19	124	
Slate, black-----	5	129	
Fire clay-----	3	132	
Sandstone-----	2	134	
Shale, gray-----	10	144	
Coal-----	1.5	145.5	
Fire clay-----	7.5	153	
Sandstone-----	38	191	W.B.

Well 11/ 8W-17A1			
Type of record: Driller's log.		Altitude: About 560 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Pennsylvanian system:			
Middle series:			
Shale, soft, gray-----	15	35	
Shale, light-----	10	45	
Limestone-----	4	49	
Slate, black-----	11	60	
Coal-----	5	65	
Shale, light-----	20	85	
Slate, black-----	5	90	
Coal-----	3	93	
Shale, light-----	32	125	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-17A1--Continued

Material	Thick-ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	2	127	
Shale, sandy-----	13	140	
Shale, dark-----	15	155	
Shale, light-----	45	200	
Sandstone-----	35	235	W. B.
Limestone-----	5	240	
Shale, blue-----	33	273	

Well 11/ 8W-17J1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Hardpan-----	13	29	
Pennsylvanian system:			
Middle series:			
Limestone-----	8	37	
Shale, sandy, dark-----	4	41	
Slate-----	7.5	48.5	
Fire clay-----	9	57.5	
Shale, gray-----	20	77.5	
Shale, dark-----	12.5	90	
Shale, light-----	4	94	
Limestone-----	2	96	
Shale, light, and fire clay-----	4	100	
Shale, sandy, light-----	15	115	
Limestone-----	5	120	
Slate-----	2	122	
Coal-----	3	125	
Shale, brown-----	15	140	
Shale-----	20	160	
Fire clay-----	5	165	
Limestone-----	--	165	

Well 11/ 8W-17N1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	9	9	
Sand and gravel-----	106	115	
Coal-----	2	117	
Sand and gravel-----	13	130	
Pennsylvanian system:			
Middle series:			
Sandstone-----	9	139	
Shale, sandy-----	12	151	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-17N1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Slate, black-----	7	158	
Coal-----	2	160	
Fire clay-----	1	161	
Sandstone-----	14	175	
Coal-----	5	180	
Fire clay-----	1	181	
Coal-----	1	182	
Sandstone-----	2	184	

Well 11/ 8W-18R1			
Type of record: Driller's log.		Altitude: About 560 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	19	19	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	13	32	
Shale, gray-----	22.5	54.5	
Coal-----	1.5	56	
Fire clay-----	2	58	
Shale, gray-----	12	70	
Limestone-----	4.5	74.5	
Slate, black-----	2.5	77	
Coal-----	3.5	80.5	
Fire clay-----	1.5	82	
Sandstone-----	7	89	
Shale, gray-----	48	137	
Slate, black-----	6	143	
Fire clay-----	3	146	
Shale, gray-----	8	154	
Shale, sandy-----	5	159	
Sandstone-----	3	162	
Shale, sandy-----	24	186	
Slate, black-----	3	189	
Shale, dark-----	15	204	
Slate, black-----	4	208	
Limestone-----	2	210	
Shale, sandy-----	8	218	
Sandstone-----	4	222	
Shale, gray-----	3	225	
Coal-----	2.5	227.5	
Bottoms-----	1	228.5	
Sandstone-----	39.5	268	W. B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

		Well 11/ 8W-19B2		
Type of record: Driller's log.				Altitude: About 550 feet.
Material	Thick- ness (feet)	Depth (feet)	Remarks	
Quaternary system:				
Recent and Pleistocene series:				
Surface-----	19	19		
Hardpan-----	13	32		
Pennsylvanian system:				
Middle series:				
Shale, light-----	20	52		
Shale, dark-----	3	55		
Coal-----	2	57		
Shale-----	13	70		
Limestone, black-----	10	80		
Slate, black-----	7	87		
Coal-----	3	90		
Fire clay-----	2	92		
Shale, gray-----	3	95		
Sandstone-----	5	100		
Shale, light-----	10	110		
Shale, dark-----	35	145		
Slate-----	8	153		
Coal-----	3	156		
Shale, gray-----	24	180		
Sandstone-----	5	185		
Shale, gray-----	30	215		
Slate, black-----	8	223		
Coal-----	2	225		
Sandstone-----	8	233		
Coal-----	2	235		
Sandstone-----	35	270	W.B.	

		Well 11/ 8W-20C1		
Type of record: Driller's log.				Altitude: About 560 feet.
Quaternary system:				
Recent and Pleistocene series:				
Surface-----	16	16		
Sand-----	3	19		
Pennsylvanian system:				
Middle series:				
Shale, sandy-----	29.5	48.5		
Coal-----	1.5	50		
Limestone-----	5.5	55.5		
Shale, gray-----	6.5	62		
Sandstone-----	9	71		
Limestone-----	1	72		
Slate, black-----	6.5	78.5		
Coal-----	2.5	81		
Fire clay-----	3	84		
Shale, gray-----	39	123		
Slate, black-----	3	126		
Fire clay-----	2	128		

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-20C1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	21	149	
Limestone-----	2	151	
Shale, gray-----	12	163	
Coal-----	3.5	166.5	
Fire clay-----	1	167.5	
Shale, dark-----	26.5	194	
Slate, black-----	5	199	
Fire clay-----	4	203	
Sandstone-----	5	208	
Shale, light-----	6	214	
Coal-----	2.5	216.5	
Shale, hard-----	1	217.5	
Sandstone-----	7.5	225	
Shale, gray-----	4	229	
Shale, sandy-----	9	238	
Shale, gray-----	4	242	
Sandstone-----	30	272	W.B.
Shale, gray-----	4	276	
Well 11/ 8W-20Q1			
Type of record: Driller's log.		Altitude: About 570 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Hardpan-----	17	31	
Pennsylvanian system:			
Middle series:			
Coal-----	1	32	
Fire clay-----	4	36	
Shale, gray-----	29	65	
Sandstone-----	1	66	
Slate, black-----	1	67	
Fire clay-----	2	69	
Shale, sandy, gray-----	10	79	
Limestone-----	7	86	
Shale, sandy, light-gray-----	19	105	
Shale, boots, gray-----	2	107	
Shale, sandy, gray-----	29	136	
Sandstone, gray-----	3	139	
Shale, sandy, gray-----	9	148	
Rock, light-gray-----	38	186	W.B.; Sandstone (?)
Coal, trace-----	--	186	
Shale, gray-----	2	188	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-20R1

Type of record: Driller's log.

Altitude: About 570 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface; yellow clay-----	23	23	
Pennsylvanian system:			
Middle series:			
Shelf rock, brown-----	.5	23.5	Limestone (?)
Coal-----	4	27.5	
Fire clay, light-----	3.5	31	
Shale, light-gray-----	37	68	
Slate-----	4	72	
Shale, light-gray-----	9	81	
Limestone-----	6	87	
Shale, sandy, gray-----	19	106	
Sandstone, white-----	21	127	
Shale, sandy, gray-----	33	160	
Sandstone, white-----	23	183	W.B.

Well 11/ 8W-21A8

Type of record: Driller's log.

Altitude: About 565 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	19	19	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	8	27	
Shale, sandy-----	5	32	
Shale, gray-----	5	37	
Shale, sandy-----	13	50	
Sandstone-----	51	101	
Coal-----	2.5	103.5	
Fire clay-----	1.5	105	
Shale, sandy-----	3	108	
Shale, blue-----	21	129	
Slate, black-----	6	135	
Fire clay-----	2	137	
Shale, gray-----	4	141	
Shale, sandy-----	9	150	
Shale, gray-----	3	153	
Coal-----	3	156	
Fire clay-----	10	166	
Sandstone-----	45	211	W.B.
Shale, gray-----	1	212	

Well 11/ 8W-21A10

Type of record: Driller's log.

Altitude: About 510 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	14	14	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-21A10--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Hardpan-----	4	18	
Sand-----	7	25	
Pennsylvanian system:			
Middle series:			
Shale, dark-gray-----	5	30	
Shale, sandy-----	26	56	
Sandstone, gray-----	7	63	W.B.
Shale, sandy, gray-----	38	101	
Coal-----	2	103	
Shale, dark-gray-----	22	125	
Slate, black-----	5	130	
Coal-----	2	132	
Fire clay-----	2	134	
Shale, gray-----	5	139	
Shale, sandy, gray-----	9	148	
Shale, dark-gray-----	9	157	
Shale, soft, light-gray-----	11	168	
Sandstone, gray-----	7	175	
Sandstone, white-----	29	204	W.B.

Well 11/ 8W-21B3			
Type of record: Driller's log.		Altitude: About 565 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	7	24	
Shale, gray-----	15	39	
Sandstone-----	4	43	
Shale, sandy-----	13	56	
Sandstone-----	48	104	
Coal, soft-----	1	105	
Shale, gray-----	9	114	
Shale, blue-----	12	126	
Slate, black-----	6	132	
Fire clay-----	3	135	
Shale, sandy-----	8	143	
Shale, dark-----	8.5	151.5	
Coal-----	3	154.5	
Fire clay-----	10.5	165	
Sandstone-----	42	207	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-21H1

Type of record: Driller's log.

Altitude: About 565 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Sand-----	5	19	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	19	38	
Sandstone-----	4	42	
Shale, gray-----	15	57	
Sandstone-----	23	80	
Shale, dark-----	15	95	
Sandstone-----	5	100	
Limestone-----	5	105	
Shale, dark-----	3	108	
Coal-----	2	110	
Fire clay-----	4	114	
Shale, dark-----	21	135	
Shale, light-----	27	162	
Sandstone-----	34	196	W.B.

Well 11/ 8W-21R1

Type of record: Driller's log.

Altitude: About 580 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	25	25	
Pennsylvanian system:			
Middle series:			
Slate, yellow-----	50	75	
Slate, blue-----	10	85	
Slate, light-----	5	90	
Shale, light-----	25	115	
Sandstone-----	10	125	
Shale, dark-----	13	138	
Coal-----	4	142	
Shale, light-----	30	172	
Sandstone-----	40	212	W.B.
Lower (?) series:			
Coal-----	4	216	
Shale, light-----	4	220	
Shale, dark-----	10	230	
Shale, black-----	5	235	
Coal-----	5	240	
Fire clay-----	5	245	
Shale, light-----	35	280	
Shale, dark-----	20	300	
Shale, gray-----	65	365	
Sandstone-----	35	400	W.B.; T.D. 1,802 ft

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-22A1			
Type of record:	Driller's log.	Altitude: About 580 feet.	
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Softpan, yellow-----	10	28	
Softpan, dark-----	10	38	
Pennsylvanian system:			
Middle series:			
Slate, gray-----	8	46	
Slate, sandy, gray-----	12	58	
Shale, gray-----	10	68	
Shale, sandy, gray-----	10	78	
Shale, gray-----	10	88	
Shale, blue-----	3	91	
Slate, black-----	4	95	
Coal, trace-----	--	95	
Fire clay-----	3	98	
Shale, sandy, light-----	4	102	
Sandstone, pasty-----	24	126	
Sandstone, blue-----	6	132	W.B.
Coal-----	2	134	
Fire clay-----	3	137	
Shale, sandy, gray-----	15	152	
Sandstone, gray-----	21	173	W.B.
Shale, sandy, gray-----	5	178	

Well 11/ 8W-22D2			
Type of record:	Driller's log.	Altitude: About 560 feet.	
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Pennsylvanian system:			
Middle series:			
Sandstone-----	1	11	
Shale, gray-----	17	28	
Sandstone-----	7	35	
Shale, gray-----	15	50	
Sandstone-----	32	82	
Shale, dark-----	5	87	
Shale, gray-----	15	102	
Shale, dark-----	25	127	
Shale, gray-----	13	140	
Sandstone-----	8	148	W.B.
Shale, sandy-----	2	150	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-22N1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Muck, blue-----	4	20	
Pennsylvanian system:			
Middle series:			
Coal-----	2	22	
Fire clay-----	4	26	
Shale, light-----	32	58	
Sandstone-----	15	73	
Shale, brown-----	2	75	
Sandstone-----	52	127	
Shale, blue-----	18	145	
Coal-----	2	147	
Shale, sandy-----	15	162	
Coal-----	2	164	
Shale, sandy-----	21	185	
Sandstone-----	15	200	W.B.

Well 11/ 8W-23A2

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	21	21	
Sand and gravel-----	19	40	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	9	49	
Shale, gray-----	7	56	
Coal-----	.5	56.5	
Shale, gray-----	25	81.5	
Shale, dark-----	1.5	83	
Slate, black-----	4	87	
Coal-----	2	89	
Fire clay-----	7	96	
Sandstone-----	5.5	101.5	
Shale, blue-----	5	106.5	
Coal-----	3	109.5	
Fire clay-----	2.5	112	
Shale, sandy-----	29	141	
Sandstone, light-----	37	178	W.B.
Sandstone, dark-----	2	180	
Shale, blue-----	5	185	

Well 11/ 8W-23B1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Open well-----	27	27	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-23B1--Continued			
Material	Thick ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, light-----	28	55	
Shale, dark-----	11	66	
Sandstone-----	15	81	
Coal-----	2	83	
Shale, blue-----	3	86	
Sandstone-----	2	88	
Shale, blue-----	18	106	
Rock, black-----	2	108	
Slate, black-----	3	111	
Shale, light-----	21	132	
Sandstone-----	20	152	
Coal-----	3	155	
Sandstone-----	49	204	W. B.
Shale, blue-----	10	214	

Well 11/ 8W-24C1			
Type of record: Driller's log.		Altitude: About 615 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	23	23	
Pennsylvanian system:			
Middle series:			
Sandstone, yellow-----	15	38	
Shale, blue-----	2	40	
Sandstone, pasty, blue-----	30	70	W. B.
Shale, sandy, gray-----	20	90	

Well 11/ 8W-24R1			
Type of record: Driller's log.		Altitude: About 600 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Pan, sandy-----	29	45	
Pennsylvanian system:			
Middle series:			
Sandstone-----	13	58	
Slate, black-----	2	60	
Shale, sandy, gray-----	7	67	
Coal-----	.5	67.5	
Clay-----	2.5	70	
Shale, gray-----	15	85	
Sandstone-----	65	150	W. B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-25C1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Record missing-----	30	30	
Sand-----	15	45	
Mud-----	15	60	
Pennsylvanian system:			
Middle series:			
Sandstone, brown-----	21	81	W.B.
Shale, gray-----	28	109	
Shale, sandy, gray-----	--	109	

Well 11/ 8W-25H1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Pan-----	65	80	
Pennsylvanian system:			
Middle series:			
Coal-----	.5	80.5	
Clay-----	.5	81	
Shale, sandy, gray-----	34	115	
Shale, gray-----	7	122	
Sandstone-----	18.5	140.5	W.B.

Well 11/ 8W-26D1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Pennsylvanian system:			
Middle series:			
Shale, light-----	10	30	
Sandstone-----	5	35	
Coal-----	2	37	
Sandstone-----	123	160	W.B.

Well 11/ 8W-26R1

Type of record: Driller's log. Altitude: About 583 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Hardpan-----	26	42	
Pennsylvanian system:			
Middle series:			
Sandstone-----	5	47	

Table 3. Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-26R1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, blue-----	16	63	
Shale, sandy, blue-----	17	80	
Slate, black-----	5	85	
Coal-----	2	87	
Fire clay-----	1	88	
Rock-----	32	120	
Sandstone-----	43	163	W. B.

Well 11/ 8W-27A1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Sand-----	1	19	
Pennsylvanian system:			
Middle series:			
Slate, black-----	5	24	
Coal-----	2	26	
Fire clay-----	1	27	
Shale, light-----	11	38	
Sandstone-----	3	41	
Shale, light-----	16	57	
Sandstone-----	29	86	"Oil"
Shale, soft-----	10	96	
Coal-----	4	100	
Shale, light-----	2	102	
Shale, sandy-----	23	125	
Shale, blue-----	2	127	
Slate, black-----	4	131	
Shale, light-----	19	150	

Well 11/ 8W-27B1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface and hardpan-----	30	30	
Pennsylvanian system:			
Middle series:			
Slate and coal-----	5	35	
Sandstone-----	57	92	
Sandstone-----	4	96	Oil
Sandstone-----	6	102	W. B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-27H1

Type of record: Driller's log.

Altitude: About 570 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Pennsylvanian system:			
Middle series:			
Shale, light-----	16	36	
Rock, black-----	4	40	Limestone (?)
Slate, black-----	2	42	
Coal-----	4	46	
Fire clay-----	1	47	
Shale, light-----	11	58	

Well 11/ 8W-28L1

Type of record: Driller's log.

Altitude: About 590 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	23	23	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	7	30	
Shale, boots-----	43	73	
Slate, black-----	4	77	
Coal-----	.5	77.5	
Fire clay-----	10.5	88	
Shale, brown-----	3.5	91.5	
Limestone-----	1.5	93	
Shale, gray-----	23.5	116.5	
Coal-----	2.5	119	
Shale, sandy-----	8	127	
Sandstone-----	8	135	
Shale, dark-----	1.5	136.5	
Coal-----	1	137.5	
Shale, dark-----	2.5	140	
Sandstone-----	3	143	
Shale, sandy-----	4	147	
Shale, dark-----	13	160	
Slate, black-----	8	168	
Fire clay-----	4	172	
Sandstone-----	5	177	
Shale, dark-----	7	184	
Coal-----	2.5	186.5	
Fire clay-----	2.5	189	
Shale, dark-----	4	193	
Shale, gray-----	5.5	198.5	
Sandstone-----	40.5	239	W.B.
Shale-----	1	240	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-28P1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	21	21	
Pennsylvanian system:			
Middle series:			
Sandstone-----	5.5	26.5	
Fire clay-----	8.5	35	
Shale, gray-----	34	69	
Slate, blue-----	3	72	
Coal-----	1.5	73.5	
Fire clay-----	16.5	90	
Shale, gray-----	5	95	
Shale, sandy-----	10	105	
Sandstone-----	20	125	
Shale-----	2	127	
Coal-----	1.5	128.5	
Shale, gray-----	3.5	132	
Sandstone-----	8	140	
Shale, sandy-----	13	153	
Slate, black-----	4	157	
Coal-----	2	159	
Fire clay-----	4	163	
Sandstone-----	9	172	W. B.
Shale, dark-----	4	176	
Coal-----	2.5	178.5	
Shale, gray-----	5.5	184	
Sandstone-----	37	221	W. B.
Shale, gray-----	--	221	

Well 11/ 8W-28Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	40	40	
Pennsylvanian system:			
Middle series:			
Fire clay-----	3	43	
Shale, gray-----	22	65	
Slate, black-----	5	70	
Fire clay-----	2	72	
Shale, gray-----	53	125	
Sandstone-----	5	130	
Shale, sandy, gray-----	38	168	
Coal-----	1	169	
Shale, gray-----	16	185	
Sandstone, white-----	25	210	W. B.
Slate-----	--	210	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-30F1

Type of record: Driller's log.

Altitude: About 555 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan and sand-----	39	49	
Pennsylvanian system:			
Middle series:			
Shale, sandy, gray-----	21	70	W.B.

Well 11/ 8W-30R1

Type of record: Driller's log.

Altitude: About 565 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	30	30	
Gravel-----	5	35	
Hardpan-----	25	60	
Sand and hardpan-----	40	100	
Pennsylvanian system:			
Middle series:			
Shale, black-----	2	102	
Shale-----	8	110	
Limestone-----	5	115	
Shale-----	30	145	
Sandstone-----	35	180	W.B.

Well 11/ 8W-31F1

Type of record: Driller's log.

Altitude: About 550 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	19	19	
Shale, gravelly-----	13	32	Gravelly clay (?)
Sand and gravel-----	2	34	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	3	37	
Mud, blue-----	11	48	
Shale, gray-----	40	88	
Slate, black-----	2.5	90.5	
Coal-----	.5	91	
Fire clay-----	6	97	
Sandstone-----	16	113	
Shale, sandy-----	5	118	
Shale, gray-----	4	122	
Sandstone-----	13	135	
Shale, sandy-----	9	144	
Sandstone-----	4	148	
Shale, sandy-----	19	167	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-31F1--Continued:

Material	Thick-ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Sandstone-----	27	94	
Slate, black-----	2	196	
Fire clay-----	1.5	197.5	
Limestone-----	.5	198	

Well 11/ 8W-31Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Softpan, yellow-----	5	20	
Hardpan, gray-----	10	30	
Softpan-----	8	38	
Clay-----	3	41	
Pennsylvanian system:			
Middle series:			
Limestone-----	1	42	
Slate, black-----	2	44	
Coal-----	2	46	
Fire clay-----	4	50	
Sandstone, pasty-----	4	54	
Shale, light-blue-----	16	70	
Shale, blue-----	10	80	

Well 11/ 8W-31R1

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

Quaternary system:			
Recent and Pleistocene (?) series:			
Surface-----	12	12	
Shale, sandy-----	11	23	Sandy clay (?)
Shale, gravelly-----	17	40	Gravelly clay (?)
Pennsylvanian system:			
Middle series:			
Shale, gray-----	61	101	
Slate, black-----	2	103	
Coal-----	2	105	
Fire clay-----	10	115	
Sandstone-----	5	120	
Shale-----	7	127	
Sandstone-----	10	137	W.B.
Shale, sandy, gray-----	7	144	
Sandstone, gray-----	5	149	
Shale and coal-----	4	153	
Sandstone, white-----	32	185	W.B.
Slate, black-----	--	185	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-31R2

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	13	13	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	6	19	
Shale, gray-----	8	27	
Shale, soft-----	7	34	
Shale, dark-----	2.5	36.5	
Slate-----	1	37.5	
Coal-----	1.5	39	
Shale, gray-----	21	60	
Shale, blue-----	24	84	
Shale, gray-----	11	95	
Shale, blue-----	2	97	
Slate, black-----	3	100	
Coal-----	2	102	
Fire clay-----	9	111	
Shale, gray-----	4	115	
Sandstone, gray-----	2	117	
Shale, gray-----	18	135	
Shale, sandy, blue-----	3	138	
Shale, gray-----	8	146	
Shale, dark-----	13	159	W.B.
Sandstone, gray-----	21	180	W.B.
Shale, blue-----	2.5	182.5	
Sandstone, blue-----	2.5	185	
Shale, sandy, gray-----	8	193	
Sandstone, gray-----	6.5	199.5	
Gravel and shale-----	8.5	208	Concretions (?)
Shale, boots, blue-----	7	215	

Well 11/ 8W-32B1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	21	21	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	6	27	
Slate, black-----	1	28	
Coal-----	2.5	30.5	
Fire clay-----	1.5	32	
Limestone-----	3	35	
Shale, gray-----	12	47	
Limestone-----	3	50	
Slate, black-----	3	53	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-32B1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	2	55	
Fire clay-----	2	57	
Shale, white-----	6	63	
Sandstone-----	2	65	
Shale, gray-----	44	109	
Slate, black-----	5	114	
Fire clay-----	10	124	
Sandstone-----	3	127	
Shale, sandy-----	18	145	
Sandstone-----	7	152	
Shale, dark-gray-----	12	164	
Slate, black-----	2	166	
Shale, dark-gray-----	8	174	
Sandstone-----	5	179	
Shale, sandy-----	16	195	
Slate, dark-----	6	201	
Fire clay-----	8	209	
Shale, gray-----	9	218	
Shale, sandy-----	4	222	
Sandstone-----	49	271	W.B.

Well 11/ 8W-32F1			
Type of record: Driller's log.		Altitude: About 580 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Shale, sandy, and gravel-----	29	44	Sandy clay (?)
Pennsylvanian system:			
Middle series:			
Shale-----	9	53	
Sandstone-----	3	56	
Shale-----	48	104	
Slate, black-----	4	108	
Coal-----	2	110	
Fire clay-----	7	117	
Shale-----	10	127	
Sandstone-----	42	169	
Shale-----	3	172	
Sandstone-----	38	210	W.B.

Well 11/ 8W-32H1			
Type of record: Driller's log.		Altitude: About 610 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	30	30	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-32H1--Continued			
Material	Thick ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	51	81	
Slate-----	4	85	
Coal-----	1.5	86.5	
Fire clay-----	3.5	90	
Shale, gray-----	9.5	99.5	
Sandstone-----	30.5	130	W.B.
Shale, blue-----	5	135	
Sandstone-----	46	181	W.B.
Shale, dark-----	4	185	

Well 11/ 8W-32N1			
Type of record: Driller's log.		Altitude: About 570 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	21	21	
Shale, gray-----	17	38	Clay (?)
Gravel-----	2	40	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	4	44	
Coal and slate-----	2	46	
Fire clay-----	4	50	
Shale, gray-----	45	95	
Slate, black-----	4	99	
Fire clay-----	10	109	
Sandstone-----	69	178	W.B.

Well 11/ 8W-33F1			
Type of record: Driller's log.		Altitude: About 610 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	28	28	
Pennsylvanian system:			
Middle series:			
Coal-----	2	30	
Sandstone-----	2	32	
Shale, gray-----	49	81	
Coal-----	2.5	83.5	
Fire clay and shale-----	11.5	95	
Sandstone-----	10	105	
Shale, gray-----	27	132	
Sandstone-----	38	170	
Shale, sandy, dark-----	18	188	
Sandstone, white-----	12	200	W.B.
Shale, gray-----	2	202	
Coal-----	1	203	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-33J1			
Type of record: Sample study by Kellar Development Company. Altitude: About 575 ft.			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Sample missing-----	72	72	
Pennsylvanian system:			
Middle series:			
Shale, hard, black, trace of sand-----	10	82	
Shale, soft, gray-----	18	100	
Shale, muddy-----	15	115	
Sandstone, coarse, soft, gray---	12	127	
Shale, muddy, gray-----	6	133	
Shale, hard, black-----	6	139	
Shale, muddy, gray-----	5	144	
Coal and some black shale-----	11	155	
Coal and some gray shale-----	5	160	
Shale, muddy, gray-----	5	165	
Sandstone, fine micaceous, shaly, gray-----	12	177	
Sandstone, fine, micaceous, gray-----	5	182	
Sandstone, fine, micaceous, white-----	49	231	
Coal and gray and black shale---	29	260	
Sandstone, coarse, micaceous, gray-----	6	266	
Lower series:			
Shale, muddy, gray-----	6	272	
Limestone, coarsely crystalline, sandy, gray-----	5	277	
Shale, muddy, gray-----	5	282	
Coal-----	10	292	
Sandstone, fine, subrounded, soft, white; trace of coal----	6	298	
Sandstone, fine, subrounded, soft, white-----	26	324	
Coal-----	5	329	
Sandstone, fine, angular, soft, gray-----	10	339	
Shale, gray-----	5	344	
Coal, some black shale-----	22	366	
Sandstone, fine, subrounded, soft, gray-----	10	376	
Sandstone, fine, subrounded, soft, white-----	29	405	T.D. 1,900 ft

Well 11/ 8W-34C1			
Type of record: Driller's log. Altitude: About 585 feet.			
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-34C1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Slate-----	3	20	
Coal-----	5	25	
Shale, gray-----	55	80	
Shale, sandy, dark-----	45	125	
Sandstone-----	20	145	
Coal-----	2	147	
Shale, dark-----	7	154	
Shale, sandy-----	5	159	
Coal-----	1	160	
Shale, dark-----	4	164	
Sandstone-----	5	169	
Shale, dark-----	10	179	
Shale, light-----	12	191	
Sandstone-----	44	235	W.B.

Well 11/ 8W-34D1

Type of record: Driller's log.	Altitude: About 590 feet.	
Quaternary system:		
Recent and Pleistocene series:		
Surface-----	18	18
Pennsylvanian system:		
Middle series:		
Sandstone-----	5	23
Shale-----	7	30
Coal-----	2	32
Fire clay-----	2	34
Shale, gray-----	6	40
Shale, dark-----	7	47
Limestone-----	4	51
Slate, black-----	4	55
Shale, gray-----	25	80
Shale, black-----	27	107
Shale, gray-----	18	125
Sandstone-----	10	135
Slate, black-----	4	139
Coal-----	1	140
Fire clay-----	2	142
Sandstone-----	2	144
Shale, gray-----	29	173
Sandstone-----	52	225
		W.B.

Well 11/ 8W-34M1

Type of record: Driller's log.	Altitude: About 570 feet.	
Quaternary system:		
Recent and Pleistocene series:		
Soil and surface-----	35	35

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-34M1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	32	67	
Slate, black-----	3.5	70.5	
Coal-----	1.5	72	
Fire clay-----	3	75	
Shale, dark-----	60.5	135.5	
Sandstone-----	25	160.5	
Shale, dark-----	3.5	164	
Sandstone, white-----	46	210	W.B.
Shale, dark-----	7	217	

Well 11/ 8W-35Q1			
Type of record: Driller's log.		Altitude:	About 550 feet.
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	23	23	
Sand-----	10	33	
Hardpan-----	13	46	
Drift-----	4	50	
Pennsylvanian system:			
Middle series:			
Sandstone-----	50	100	
Shale, blue-----	17	117	
Sandstone-----	21	138	
Shale, blue-----	2	140	
Sandstone-----	28	168	W.B.
Coal-----	2	170	

Well 11/ 8W-35R1			
Type of record: Driller's log.		Altitude:	About 560 feet.
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Shale, sandy, yellow-----	5	23	
Shale, gravelly, blue-----	33	56	
Rock-----	3	59	Boulder (?)
Pennsylvanian system:			
Middle series:			
Shale-----	1.5	60.5	
Sandstone-----	14.5	75	W.B.
Shale, gray, and dark shale-----	55	130	
Slate, black-----	13	143	
Shale-----	22	165	
Sandstone-----	10	175	
Shale-----	1	176	
Slate, black-----	3.5	179.5	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-35R1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	1	180.5	
Fire clay-----	2.5	183	
Sandstone-----	5	188	
Coal-----	3	191	
Fire clay-----	14	205	
Shale-----	35	240	

Well 11/ 9W- 1A1			
Type of record: Driller's log.		Altitude: About 555 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	23	23	
Hardpan-----	28	51	
Sand-----	2	53	
Hardpan-----	28	81	
Sand and gravel-----	35	116	W.B.
Sand-----	6	122	W.B.
Hardpan-----	--	122	

Well 11/ 9W- 1A3			
Type of record: Driller's log.		Altitude: About 555 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay, red-----	8	8	
Sand, soft, and mud-----	15	23	
Hardpan, gray-----	16	39	
Mud and soft sand-----	4	43	
Hardpan and gravel-----	38	81	
Sand and gravel-----	3	84	W.B.

Well 11/ 9W- 1C1			
Type of record: Driller's log.		Altitude: About 560 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Drift-----	8	28	
Hardpan-----	10	38	
Sand and gravel-----	4	42	
Hardpan-----	58	100	
Gravel-----	5	105	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W- 1K1			
Type of record: Driller's log.		Altitude: About 550 feet.	
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil and sand-----	15	15	
Mud, soft, yellow-----	8	23	
Sand-----	4	27	
Hardpan, sandy, gray-----	43	70	
Mud, glacial-----	3	73	
Sand and coarse gravel-----	7	80	W.B.
Well 11/ 9W- 1L2			
Type of record: Driller's log.		Altitude: About 550 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	18	18	
Hardpan-----	4	22	
Quicksand-----	2	24	
Hardpan-----	53	77	
Sand and gravel-----	8	85	W.B.
Well 11/ 9W- 1R1			
Type of record: Driller's log.		Altitude: About 545 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	5	5	
Sand, red-----	32	37	
Gravel and sand-----	3	40	W.B.
Hardpan-----	5	45	
Well 11/ 9W- 2G1			
Type of record: Driller's log.		Altitude: About 500 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Sand and gravel, dirty-----	12	27	
Pennsylvanian system:			
Middle series:			
Slate, soft, gray-----	6	33	
Slate, gray-----	4	37	
Coal-----	1	38	
Fire clay-----	2	40	
Limestone-----	5	45	
Slate, gray-----	3	48	
Slate, black-----	7	55	
Coal-----	6	61	
Fire clay-----	.5	61.5	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W- 2H1

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

Material	Thick ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	5	5	
Sand-----	10	15	
Hardpan soft-----	15	30	
Hardpan-----	84	114	
Sand, fine-----	1	115	
Pennsylvanian system:			
Middle series:			
Slate, black-----	6	121	

Well 11/ 9W- 2H3

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan-----	41	51	
Sand-----	17	68	"Dry"
Hardpan-----	5	73	
Sand and gravel-----	7	80	W.B.

Well 11/ 9W- 2H4

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

Quaternary system:			
Recent and Pleistocene series:			
Drift-----	18	18	
Gravel-----	2	20	
Pennsylvanian system:			
Middle series:			
Shale-----	10	30	
Sandstone-----	5	35	
Sandstone, broken-----	30	65	
Shale-----	61	126	
Coal-----	3	129	
Sandstone, broken-----	11	140	
Slate-----	2	142	
Shale, gray-----	8	150	
Slate-----	2	152	
Shale, gray-----	66	218	
Shale, sandy-----	93	311	
Sandstone, broken-----	49	360	T.D. 1,156 ft

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W- 2J1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil and soft clay-----	6	6	
Mud, sandy, yellow-----	14	20	W.B.
Hardpan, solid, gray-----	4	24	
Sand and soft mud-----	2	26	W.B.
Hardpan, solid, gray-----	14	40	
Sand and soft mud-----	1	41	W.B.
Hardpan, solid, gray-----	24	65	
Hardpan, sandy, soft, gray-----	18	83	
Hardpan, silty, gray-----	3	86	
Pennsylvanian system:			
Middle series:			
Shale-----	4	90	
Shale, light-----	2	92	

Well 11/ 9W- 2K1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	6	6	
Sand, dirty-----	14	20	
Softpan, yellow-----	10	30	
Hardpan, gray-----	8	38	
Sand and gravel-----	2	40	W.B.
Hardpan-----	1	41	
Sand and gravel-----	11	52	W.B.
Hardpan, gray-----	6	58	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	2	60	
Limestone-----	5	65	
Slate, black-----	8	73	

Well 11/ 9W- 2P1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	23	23	
Hardpan-----	37	60	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	36	96	
Coal-----	1	97	
Shale, gray-----	5	102	
Rock-----	3	105	Limestone (?)
Shale, light-----	10	115	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W- 5L1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	48	48	
Sand, fine-----	13	61	W.B.
Gravel, coarse-----	9	70	W.B.
Sand, coarse-----	12	82	W.B.
Gravel, coarse, and some sand----	9	91	W.B.
Sand, coarse-----	12	103	W.B.
Pennsylvanian system:			
Middle series:			
Shale, dark-----	27	130	
Sandstone and limestone-----	20	150	W.B.
Shale, dark-----	5	155	

Well 11/ 9W- 7C3

Type of record: Driller's log. Altitude: About 485 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, gritty-----	4	4	
Sand, fine-----	1	5	
Gravel, muddy-----	3	8	
Sand and gravel, medium-----	13	21	
Sand, medium-----	17	38	
Sand and gravel, medium-----	66	104	W.B.
Sand and gravel, coarse-----	16	120	W.B.
Sand and gravel, medium-----	8	128	W.B.
Sand, medium, and boulders-----	3.5	131.5	W.B.

Well 11/ 9W- 7J1

Type of record: Driller's log. Altitude: About 485 feet.

Quaternary system:			
Recent and Pleistocene series:			
Gravel, coarse, dirty-----	22	22	
Gravel-----	34	56	W.B.
Sand-----	--	56	

Well 11/ 9W- 7R1

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	4	4	
Sand-----	18	22	
Sand and gravel-----	36	58	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W- 8N1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil and dirt, muddy-----	24	24	W.B. 19 to 95 ft
Sand, coarse, muddy-----	6	30	
Gravel, medium, muddy-----	18	48	
Gravel, fine, clean-----	10	58	
Sand, coarse, clean-----	9	67	
Gravel, fine, and coarse, clean sand-----	20	87	
Gravel, coarse, clean-----	8	95	
Pennsylvanian system:			
Middle series:			
Shale-----	1	96	

Well 11/ 9W- 9G2

Type of record: Driller's log. Altitude: About 489 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	4	4	
Gravel and limestone-----	62	66	
Pennsylvanian system:			
Middle series:			
Coal-----	2	68	
Shale, gray-----	3	71	
Sandstone-----	7	78	
Limestone-----	4	82	
Shale, light-----	9	91	
Sandstone-----	4	95	
Shale, sandy-----	4	99	
Shale, gray-----	41	140	
Shale, black-----	6	146	
Shale, gray-----	5	151	
Shale, sandy-----	9	160	
Coal-----	2	162	
Shale-----	75	237	
Sandstone-----	33	270	T.D. 1,699 ft

Well 11/ 9W-10A1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand-----	16	16	
Sand and gravel-----	30	46	
Pennsylvanian system:			
Middle series:			
Shale, light-----	2	48	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-10A1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Rock, hard, light-----	6	54	
Limestone-----	3	57	
Slate, blue-----	7	64	
Slate, black-----	4	68	
Mine opening-----	5	73	
Well 11/ 9W-10F1			
Type of record: Driller's log.		Altitude: About 495 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Hardpan-----	18	18	
Sand, fine-----	12	30	W.B.
Sand-----	12	42	W.B.
Gravel, coarse-----	6	48	W.B.
Well 11/ 9W-10G3			
Type of record: Driller's log.		Altitude: About 500 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Old pit-----	35	35	
Sand and gravel-----	5	40	
Sand, fine-----	6	46	W.B.
Sand, coarse, and gravel-----	8	54	W.B.
Well 11/ 9W-10K1			
Type of record: Driller's log.		Altitude: About 495 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Gravel and sand-----	31	31	
Hardpan and glacial mud-----	23	54	
Sand-----	4	58	W.B.
Sand and gravel-----	1	59	W.B.
Well 11/ 9W-10P1			
Type of record: Driller's log.		Altitude: About 500 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	8	8	
Sand and gravel-----	32	40	W.B.
Pennsylvanian system:			
Middle series:			
Fire clay, dirty, white-----	40	80	

Table 3.--Selected well logs; Vigo County, Indiana--Continued

Well 11/ 9W-10Q1

Type of record: Driller's log. Altitude: About 495 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand-----	18	18	
Gravel-----	12	30	
Sand-----	28	58	
Pennsylvanian system:			
Middle series:			
Shale, dark-gray-----	15	73	
Limestone, sandy-----	17	90	
Shale, muddy, dark-----	70	160	
Sandstone-----	5	165	
Shale-----	49	214	
Sandstone-----	34	248	W.B.; T.D. 1,833 ft

Well 11/ 9W-11C1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan, gray-----	21	31	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	44	75	
Slate, dark-----	7	82	
Coal-----	2	84	
Fire clay-----	2	86	
Sandstone, pasty-----	10	96	
Limestone-----	3	99	
Slate, black-----	7	106	
Mine opening-----	--	106	

Well 11/ 9W-11G1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	32	32	
Hardpan-----	20	52	
Gravel-----	1	53	W.B.
Pennsylvanian system:			
Middle series:			
Shale-----	68	121	
Limestone-----	6	127	
Fire clay-----	16	143	
Shale-----	37	180	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-11K2

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, white-----	25	25	
Clay and hardpan-----	25	50	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	18	68	
Shale, dark-----	22	90	
Coal-----	3	93	
Limestone, hard-----	2	95	W. B.
Shale, gray-----	9	104	
Limestone, hard-----	7	111	
Slate, black-----	7	118	
Shale, sandy-----	9	127	
Limestone, hard-----	2	129	
Shale, sandy-----	18	147	
Slate, dark-----	4	151	
Coal-----	2	153	
Shale, sandy-----	25	178	
Slate, black-----	10	188	
Coal-----	4	192	
Limestone, hard-----	2	194	
Shale, gray-----	4	198	
Shale, sandy-----	20	218	
Slate, black-----	10	228	
Limestone, hard-----	2	230	
Coal-----	1	231	
Fire clay-----	3	234	
Sandstone-----	4	238	
Shale, sandy-----	12	250	
Sandstone-----	54	304	W. B.

Well 11/ 9W-11K3

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

Quaternary system:			
Recent and Pleistocene series:			
Surface and sand-----	12	12	
Mud, dark-----	13	25	
Pennsylvanian system:			
Middle series:			
Shale, soft, light-----	35	60	
Shale, dark, and coal-----	5	65	
Limestone, hard-----	5	70	
Sandstone-----	8	78	W. B.
Shale, soft-----	3	81	
Shale, sandy-----	13	94	
Limestone, hard-----	3	97	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-11K3--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Slate, dark-----	5	102	
Coal-----	3	105	
Shale, gray-----	13	118	
Shale, dark-----	39	157	
Limestone, hard-----	4	161	
Coal-----	3	164	
Shale, dark-----	5	169	
Limestone, hard-----	2	171	
Shale, sandy-----	27	198	
Coal-----	2	200	
Sandstone-----	75	275	W.B.

Well 11/ 9W-12C1			
Type of record: Driller's log.		Altitude: About 540 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Sand and hardpan-----	42	60	
Gravel-----	4	64	
Hardpan-----	18	82	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	28	110	
Slate, black-----	10	120	
Mine opening-----	6	126	
Fire clay-----	4	130	
Shale, blue-----	6	136	
Shale, light-----	28	164	
Slate, black-----	3	167	
Coal-----	4	171	

Well 11/ 9W-12M1			
Type of record: Driller's log.		Altitude: About 555 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	30	30	
Hardpan-----	20	50	
Pennsylvanian system:			
Middle series:			
Shale, white-----	55	105	
Shale, dark-----	4	109	
Coal-----	1	110	
Fire clay-----	2	112	
Sandstone-----	2	114	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-13B1			
Type of record: Driller's log.		Altitude: About 550 feet.	
Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	14	14	
Sand and gravel-----	18	32	"Dry"
Pennsylvanian system:			
Middle series:			
Shale, gray-----	41	73	
Shale, black-----	6	79	
Shale, gray-----	3	82	
Sandstone-----	3	85	
Shale, gray-----	35	120	
Shale, dark-----	36	156	
Coal-----	4	160	
Shale, sandy-----	5	165	
Soapstone and shale-----	5	170	
Fire clay-----	4	174	
Shale, sandy, dark-----	11	185	
Shale, dark-----	12	197	
Coal-----	5	202	
Shale, gray-----	9	211	
Shale, dark-----	10	221	
Sandstone-----	59	280	W.B.

Well 11/ 9W-13B2			
Type of record: Driller's log.		Altitude: About 550 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Softpan, yellow-----	10	28	
Sand and small gravel-----	1	29	W.B.
Hardpan, gray-----	7	36	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	13	49	

Well 11/ 9W-13C1			
Type of record: Driller's log.		Altitude: About 550 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	14	14	
Mud, white-----	17	31	
Pennsylvanian system:			
Middle series:			
Slate, black-----	3	34	
Shale-----	7	41	
Slate, gray-----	5	46	
Limestone-----	5	51	
Shale, black-----	2	53	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-13C1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	5	58	
Fire clay-----	3	61	
Shale, sandy-----	5	66	
Sandstone-----	10	76	W.B.
Slate-----	18	94	
Shale, dark-gray-----	35	129	
Slate, black-----	5	134	
Coal-----	4	138	
Fire clay-----	3	141	
Shale, sandy, dark-----	26	167	
Slate, black-----	9	176	
Limestone-----	7	183	
Slate-----	3	186	
Sandstone-----	5	191	
Slate-----	3	194	
Sandstone-----	22	216	
Sandstone-----	35	251	W.B.; "Gas"
Slate, dark-----	42	293	
Shale, dark-----	27	320	
Slate, dark-----	14	334	
Shale, sandy-----	78	412	
Lower (?) series:			
Limestone, sandy, hard-----	8	420	
Sandstone-----	20	440	"Salt water"

Well 11/ 9W-13D1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	24	24	
Hardpan, sandy-----	12	36	
Sand-----	6	42	W.B.
Hardpan-----	48	90	
Pennsylvanian system:			
Middle series:			
Shale-----	--	90	

Well 11/ 9W-16E1

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	10	10	
Gravel and sand, muddy-----	10	20	
Sand, sharp, and medium gravel---	40	60	W.B. 29 to 87 ft
Sand sharp-----	15	75	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-16E1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Gravel, medium-----	11	86	
Gravel, muddy-----	1	87	
Pennsylvanian system:			
Middle series:			
Shale-----	1	88	

Well 11/ 9W-16M1			
Type of record: Driller's log.		Altitude: About 490 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	5	5	
Clay, gravelly-----	20	25	
Gravel, medium to coarse-----	45	70	W.B. 34 to 93 ft
Sand, sharp-----	17	87	
Coal-----	.5	87.5	
Gravel, medium to coarse-----	5.5	93	
Pennsylvanian system:			
Middle series:			
Shale-----	.5	93.5	

Well 11/ 9W-17A1			
Type of record: Driller's log.		Altitude: About 480 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	8	8	
Sand and gravel, dirty-----	20	28	W.B. 18 to 84 ft
Gravel, dirty-----	12	40	
Sand and gravel-----	16	56	
Sand, medium-----	7	63	
Sand, clean, medium-gray-----	18	81	
Sand and gravel-----	3	84	
Pennsylvanian system:			
Middle series:			
Shale-----	2	86	

Well 11/ 9W-17A3			
Type of record: Driller's log.		Altitude: About 490 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	15	15	
Sand and gravel, muddy-----	15	30	
Sand, fine, yellow-----	2	32	
Sand and coarse gravel, gray-----	13	45	W.B.
Sand and coarse gravel, yellow---	2	47	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-17A3--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, coarse, gray-----	3	50	W.B.
Sand and coarse gravel, gray-----	1	51	W.B.
Well 11/ 9W-17B1			
Type of record: Driller's log.		Altitude: About 480 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	15	15	
Gravel, medium-----	15	30	W.B. 19 to 84 ft
Sand, coarse, and gravel-----	15	45	
Sand, coarse-----	18	63	
Sand, coarse, clean-----	18	81	
Sand, coarse, and gravel, clean---	3	84	
Pennsylvanian system:			
Middle series:			
Shale-----	2	86	
Well 11/ 9W-17E2			
Type of record: Driller's log.		Altitude: About 480 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Top soil, slightly muddy-----	15	15	
Gravel, medium, slightly muddy----	30	45	W.B. 22 to 79 ft
Gravel, fine, slightly muddy-----	13	58	
Sand, coarse, slightly muddy-----	8	66	
Sand, coarse, and gravel-----	13	79	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	1	80	
Well 11/ 9W-17H1			
Type of record: Driller's log.		Altitude: About 480 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Top soil and clay-----	15	15	
Gravel, medium, clean-----	35	50	W.B. 22 to 87 ft
Gravel, medium-----	13	63	
Gravel, fine-----	5	68	
Gravel, medium-----	5	73	
Gravel, fine, and sand; clean, gray-----	14	87	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	2	89	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-17H3

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	15	15	
Gravel, fine, clean-----	60	75	W.B. 23 to 87 ft
Gravel, fine, and medium sand; clean-----	12	87	
Pennsylvanian system:			
Middle series:			
Shale-----	2	89	

Well 11/ 9W-17Q2

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	2	2	
Clay, gravelly-----	4	6	
Sand and gravel, medium-----	42	48	W.B. 22 to 75 ft
Gravel, medium-----	10	58	
Gravel, coarse-----	4	62	
Gravel, medium, clean-----	10	72	
Sand, coarse, clean-----	3	75	
Pennsylvanian system:			
Middle series:			
Shale-----	5	80	

Well 11/ 9W-18H1

Type of record: Driller's log. Altitude: About 470 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil and clay-----	10	10	
Sand and gravel-----	18	28	W.B. 14 to 79 ft
Sand, coarse, clean-----	10	38	
Sand, fine, clean-----	3	41	
Sand and gravel, clean-----	9	50	
Sand, fine, clean-----	10	60	
Sand, coarse, and medium gravel; clean-----	14	74	
Sand and coarse gravel, muddy----	5	79	
Shale, blue-----	1	80	

Well 11/ 9W-20R1

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	1	1	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-20R1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, sandy-----	9	10	
Clay, gravelly-----	8	18	
Sand and gravel, medium, clean---	2	20	W.B.
Pennsylvanian system:			
Middle series:			
Shale, blue-----	2	22	

Well 11/ 9W-21C1

Type of record: Driller's log. Altitude: About 495 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand-----	30	30	
Pennsylvanian system:			
Middle series:			
Shale, light-----	35	65	
Shale, blue-----	47	112	
Coal-----	3	115	
Shale, light-----	10	125	
Limestone-----	9	134	
Slate-----	4	138	
Coal-----	2	140	
Fire clay-----	1	141	
Limestone-----	7	148	
Shale, light-----	27	175	

Well 11/ 9W-22R2

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	15	15	
Hardpan-----	15	30	
Mud, yellow-----	10	40	
Pennsylvanian system:			
Middle series:			
Shale, light-----	15	55	
Sandstone, white-----	13	68	W.B.
Shale, dark-----	79	147	
Coal-----	3	150	
Limestone, hard-----	5	155	
Shale, dark-----	5	160	
Sandstone, dark-----	20	180	W. B.
Limestone, sandy-----	11	191	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-23N1

Type of record: Driller's log. Altitude: About 557 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	20	20	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	117	137	
Coal-----	3	140	
Limestone, gray-----	2	142	
Shale, gray-----	11	153	
Limestone, dark-----	6	159	
Slate-----	9	168	
Shale, gray-----	18	186	
Shale, dark-----	43	229	
Shale, gray-----	40	269	
Coal-----	1	270	
Shale, sandy, gray-----	11	281	
Shale, dark-----	17	298	
Slate, black-----	1	299	
Limestone-----	1	300	
Shale, gray-----	17	317	
Coal-----	1	318	
Shale, sandy, gray-----	26	344	
Sandstone, broken-----	25	369	
Sandstone-----	35	404	T.D. 2,116 ft

Well 11/ 9W-24L1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Pan-----	37	52	
Pennsylvanian system:			
Middle series:			
Shale, light-gray-----	20.5	72.5	
Coal-----	.5	73	
Shale, light-gray-----	7	80	
Shale, gray-----	10	90	
Shale, sandy, gray-----	5	95	
Shale, dark-gray-----	2	97	
Coal-----	1	98	
Clay-----	7	105	
Sandstone-----	8	113	
Shale, sandy, gray-----	47	160	
Coal-----	4	164	
Clay-----	3	167	
Shale, sandy, gray-----	8	175	
Sandstone-----	18	193	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-24L1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy, gray-----	35	228	
Slate, black-----	9.5	237.5	
Coal-----	1.5	239	
Clay-----	2	241	
Sandstone-----	50	291	W.B.

Well 11/ 9W-25E1			
Type of record: Driller's log.		Altitude: About 530 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Softpan-----	12	12	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	59	71	
Slate, dark-----	3	74	
Limestone-----	3	77	
Slate, sandy, gray-----	12	89	
Limestone-----	6	95	
Coal-----	4	99	
Clay, hard-----	2	101	
Shale, sandy, blue-----	6	107	

Well 11/ 9W-25F1			
Type of record: Driller's log.		Altitude: About 550 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	16	16	
Hardpan-----	20	36	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	53	89	
Coal-----	1	90	
Sandstone-----	5	95	W.B.
Slate, dark-----	7	102	
Coal and sandstone-----	2	104	W.B.
Limestone, hard-----	3	107	
Coal-----	3	110	
Sandstone, dark-----	15	125	W.B.
Shale, dark-----	25	150	

Well 11/ 9W-25K1			
Type of record: Driller's log.		Altitude: About 550 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	44	44	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-25K1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, dark-----	14	58	
Coal-----	1	59	
Fire clay-----	3	62	
Sandstone-----	15	77	W.B.
Limestone, hard-----	1	78	
Slate, blue-----	2	80	
Coal-----	3	83	
Fire clay-----	3	86	
Limestone, sandy-----	6	92	
Shale, sandy-----	8	100	
Shale, dark-----	26	126	
Sandstone-----	6	132	W.B.
Coal-----	3	135	
Fire clay-----	2	137	
Limestone, hard-----	2	139	
Shale, sandy-----	21	160	
Shale, dark-----	8	168	
Sandstone, white-----	22	190	W.B.

Well 11/ 9W-25M1

Type of record: Driller's log.

Altitude: About 550 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	20	20	
Hardpan-----	17	37	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	43	80	
Coal-----	1	81	W.B.
Shale, gray-----	5	86	
Limestone, hard-----	3	89	
Shale, gray-----	7	96	
Sandstone-----	12	108	W.B.
Slate, dark-----	1	109	

Well 11/ 9W-25Q1

Type of record: Driller's log.

Altitude: About 555 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	22	22	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	23	45	
Coal-----	1	46	
Fire clay-----	2	48	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-25Q1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	23	71	
Sandstone-----	7	78	
Slate-----	1	79	
Coal-----	4	83	
Fire clay-----	2	85	
Shale, gray-----	54	139	
Coal-----	2.5	141.5	
Fire clay-----	2	143.5	
Shale, gray-----	30	173.5	
Sandstone-----	32	205.5	
Shale-----	2	207.5	
Shale, sandy-----	18	225.5	
Sandstone-----	8	233.5	

Well 11/ 9W-26B1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	42	42	
Pennsylvanian system:			
Middle series:			
Shale, light-----	38	80	W. B.
Shale, dark-----	20	100	
Coal-----	2	102	
Fire clay-----	5	107	
Limestone, hard-----	4	111	
Fire clay-----	3	114	
Shale, sandy-----	7	121	
Slate, black-----	4	125	
Coal-----	3	128	
Fire clay-----	3	131	
Limestone, sandy-----	3	134	W. B.
Limestone, hard-----	2	136	
Shale, light-----	7	143	
Shale, dark-----	46	189	
Slate, black-----	4	193	
Fire clay-----	3	196	
Shale, light-----	13	209	

Well 11/ 9W-26C1

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

Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	15	15	
Sand-----	10	25	
Hardpan-----	23	48	W. B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-26C1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Sandstone, gray-----	17	65	
Shale, dark-----	55	120	
Shale, gray-----	21	141	
Coal-----	2	143	
Shale-----	2	145	
Limestone-----	4	149	
Shale-----	4	153	
Sandstone-----	9	162	
Coal-----	4	166	
Shale, sandy-----	14	180	
Shale-----	12	192	

Well 11/ 9W-26G1			
Type of record: Driller's log.		Altitude: About 560 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	17	17	
Hardpan-----	6	23	
Mud, soft-----	7	30	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	5	35	
Sandstone-----	59	94	W.B.
Slate, blue-----	2	96	
Coal-----	3	99	
Limestone, hard-----	5	104	
Sandstone-----	13	117	
Slate, blue-----	3	120	
Coal-----	3	123	
Sandstone, dark-----	9	132	W.B.
Shale, dark-----	18	150	

Well 11/ 9W-26M1			
Type of record: Driller's log.		Altitude: About 590 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	20	20	
Hardpan-----	30	50	
Pennsylvanian system:			
Middle series;			
Shale, blue-----	4	54	
Coal-----	2	56	
Fire clay-----	8	64	
Limestone, sandy-----	12	76	
Sandstone-----	34	110	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-26M1--Continued

Material	Thick-ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, light-----	5	115	
Shale, sandy-----	20	135	
Shale, dark-----	20	155	
Sandstone-----	5	160	
Shale, dark-----	22	182	
Coal-----	3	185	
Limestone, very hard-----	5	190	W.B.
Limestone, sandy-----	10	200	
Coal-----	5	205	
Fire clay-----	5	210	
Shale, sandy-----	6	216	

Well 11/ 9W-26N1

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

Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	12	12	
Sand-----	13	25	
Hardpan-----	25	50	
Sand-----	35	85	
Pennsylvanian system:			
Middle series:			
Shale-----	39	124	
Limestone-----	3	127	W.B.
Shale-----	1	128	

Well 11/ 9W-26N3

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	9	9	
Silt-----	10	19	
Shale, sandy-----	11	30	Sandy clay (?)
Shale, gray-----	10	40	Clay (?)
Sand and gravel-----	6	46	W.B.
Shale, gray-----	--	46	Clay (?)

Well 11/ 9W-26R2

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	19	19	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-26R2--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	82.5	101.5	
Coal-----	1.5	103	
Shale, hard-----	3	106	
Limestone-----	3	109	
Shale, gray-----	5	114	
Shale, sandy-----	10	124	
Slate, black-----	7	131	
Shale, gray-----	51	182	
Slate, black-----	4	186	W.B.
Shale, gray-----	21	207	
Sandstone-----	7	214	
Shale, sandy-----	39	253	
Sandstone-----	11	264	
Shale, sandy-----	3	267	
Sandstone-----	10	277	
Slate, black-----	4	281	
Shale, gray-----	9	290	
Sandstone-----	6	296	
Shale, gray-----	4	300	

Well 11/ 9W-27G1			
Type of record: Driller's log.		Altitude: About 570 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Soil-----	6	6	
Clay, soft-----	11	17	
Hardpan-----	13	30	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	39	69	
Shale, light-gray-----	15	84	
Shale, gray-----	16	100	
Shale, blue-----	30	130	

Well 11/ 9W-28B1			
Type of record: Driller's log.		Altitude: About 535 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan-----	30	40	
Sand-----	5	45	
Hardpan-----	33	78	
Gravel-----	1	79	W.B.
Hardpan-----	3	82	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-28B1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, blue-----	3	85	

Well 11/ 9W-28G1

Type of record: Driller's log.		Altitude: About 560 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	3	3	
Hardpan-----	5	8	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	9	17	

Well 11/ 9W-29N1

Type of record: Driller's log.		Altitude: About 485 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Soil and sand-----	10	10	
Sand and gravel-----	8	18	
Pennsylvanian system:			
Middle series:			
Shale-----	2	20	

Well 11/ 9W-30D1

Type of record: Driller's log.		Altitude: About 480 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	26	26	
Sand, fine-----	9	35	W.B.
Gravel, loose-----	7	42	W.B.
Gravel, coarse, solid-----	--	42	W.B.

Well 11/ 9W-30M1

Type of record: Driller's log.		Altitude: About 485 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Soil and dirt-----	8	8	
Gravel, medium-----	14	22	W.B.
Sand, coarse-----	5	27	W.B.
Pennsylvanian system:			
Middle series:			
Shale-----	2	29	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-30N1			
Type of record: Driller's log.		Altitude: About 480 feet.	
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil and muck, soft-----	14	14	
Gravel-----	1	15	
Pennsylvanian system:			
Middle series:			
Shale-----	1	16	

Well 11/ 9W-31E1			
Type of record: Driller's log.		Altitude: About 492 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Soil, sand, and gravel-----	25	25	
Pennsylvanian system:			
Middle series:			
Shale-----	20	45	
Sandstone, hard-----	40	85	
Shale-----	10	95	
Sandstone and silty sandstone---	24	119	
Shale and silty shale-----	85	204	
Coal-----	6	210	
Limestone-----	5	215	
Coal-----	2	217	
Shale, silty-----	16	233	
Coal-----	4	237	
Shale-----	62	299	
Sandstone, lignitic, limy-----	4	303	
Shale-----	70	373	
Coal-----	3	376	
Shale-----	9	387	
Sandstone-----	24	411	T.D. 1,228 ft

Well 11/ 9W-31N1			
Type of record: Driller's log.		Altitude: About 495 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Soil and dirt-----	8	8	
Gravel, medium-----	11	19	W.B.
Pennsylvanian system:			
Middle series:			
Shale, blue-----	2	21	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-32J1

Type of record: Driller's log. Altitude: About 535 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil-----	14	14	
Sand-----	61	75	
Gravel-----	10	85	
Pennsylvanian system:			
Middle series:			
Shale with some coal-----	20	105	
Shale, silty-----	105	210	
Shale, coaly, black-----	3	213	
Limestone and shale-----	12	225	
Limestone-----	17	242	
Shale, black, and coal-----	3	245	
Shale, silty-----	76	321	T.D. 1,180 ft

Well 11/ 9W-32M1

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

Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	10	10	
Sand-----	10	20	
Quicksand-----	12	32	W.B.
Hardpan-----	8	40	
Gravel-----	6	46	W.B.
Pennsylvanian system:			
Middle series:			
Shale-----	17	63	

Well 11/ 9W-33C1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	13	13	
Clay, sandy-----	4	17	
Gravel and sand, muddy-----	2	19	
Clay, hard, and gravel-----	4	23	
Clay, hard, gritty-----	19	42	
Clay, shaly-----	9	51	
Shale, gritty, blue-----	28	79	Clay (?)
Shale, gravelly, black-----	6	85	Do
Shale, gravelly, blue-----	7	92	Do
Pennsylvanian system:			
Middle series:			
Limestone-----	12	104	
Shale, gritty, blue-----	22	126	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-33F1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	17	17	
Hardpan-----	16	33	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	25	58	
Shale, dark-----	14	72	
Coal-----	3	75	W.B.
Shale, gray-----	4	79	
Limestone, hard-----	2	81	
Sandstone-----	5	86	W.B.
Shale, sandy-----	6	92	
Sandstone, broken-----	8	100	
Shale, gray-----	3	103	

Well 11/ 9W-33G1

Type of record: Driller's log. Altitude: About 548 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	10	10	
Sand, silty-----	20	30	
Pennsylvanian system:			
Middle series:			
Sandstone, broken-----	20	50	
Sandstone-----	20	70	
Clay-----	5	75	
Coal-----	3	78	
Sandstone, silty-----	42	120	
Limestone-----	5	125	
Shale, gray-----	75	200	
Coal and slate-----	4	204	
Limestone-----	6	210	
Sandstone-----	20	230	
Coal-----	5	235	
Limestone-----	5	240	
Clay-----	10	250	
Shale, gray-----	50	300	
Coal-----	5	305	T.D. 1,185 ft

Well 11/ 9W-34C1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	18	18	
Hardpan-----	26	44	
Gravel-----	8	52	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-34L1

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

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	21	21	
Hardpan-----	31	52	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	8	60	
Coal-----	1	61	
Shale, soft, yellow-----	9	70	
Shale, soft, gray-----	4	74	
Shale, sandy-----	61	135	
Shale, dark-----	46	181	
Coal-----	5	186	
Limestone-----	4	190	
Limestone, hard-----	5	195	
Shale, light-----	4	199	
Slate, dark-----	7	206	
Coal-----	4	210	W.B.
Shale, dark-----	6	216	
Limestone, hard-----	4	220	W.B.
Shale, light-----	7	227	
Shale, dark-----	29	256	

Well 11/ 9W-34P1

Type of record: Driller's log. Altitude: About 576 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	17	17	
Hardpan-----	12	29	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	21	50	
Sandstone-----	16	66	W.B.
Coal and fire clay-----	5	71	
Shale, sandy-----	4	75	
Limestone, hard-----	4	79	
Sandstone, white-----	9	88	W.B.
Shale, dark-----	12	100	

Well 11/ 9W-34Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	18	18	
Hardpan-----	3	21	
Gravel-----	9	30	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-34Q1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, blue-----	20	50	
Shale, gray-----	9	59	
Sandstone-----	6	65	W.B.
Shale, blue-----	5	70	
Sandstone-----	5	75	
Shale, blue-----	45	120	
Limestone, brown-----	15	135	W.B.
Shale, blue-----	10	145	
Well 11/ 9W-35C1			
Type of record: Driller's log.		Altitude: About 580 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	38	38	
Gravel-----	2	40	
Shale, gravelly-----	7.5	47.5	Gravelly clay (?)
Pennsylvanian system:			
Middle series:			
Limestone-----	.5	48	
Soft-----	1	49	Shale (?)
Limestone-----	2	51	
Sandstone-----	9	60	
Shale, sandy-----	13	73	
Shale, gray-----	70	143	
Shale, soft-----	10	153	
Coal-----	2	155	
Fire clay-----	1.5	156.5	
Limestone-----	4.5	161	
Shale, white-----	4	165	
Slate, gray-----	3	168	
Sandstone-----	2	170	
Limestone-----	5	175	
Shale, gray-----	2	177	
Slate, black-----	1	178	
Coal-----	3	181	
Fire clay-----	11	192	
Shale, gray-----	53	245	
Limestone-----	1	246	
Shale, sandy-----	4	250	
Shale, gray-----	70	320	
Sandstone-----	10	330	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-35K1

Type of record: Driller's log.

Altitude: About 570 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	15	15	
Hardpan-----	20	35	W.B.
Pennsylvanian system:			
Middle series:			
Shale, gray-----	4	39	
Sandstone-----	6	45	
Shale, sandy-----	70	115	
Shale, dark-----	28	143	
Coal-----	3	146	
Limestone, hard-----	5	151	W.B.
Shale, gray-----	5	156	
Slate, dark-----	9	165	
Coal-----	4	169	
Limestone-----	2	171	
Slate, gray-----	3	174	
Limestone, hard-----	11	185	W.B.
Shale, dark-----	5	190	

Well 11/ 9W-35P1

Type of record: Driller's log.

Altitude: About 570 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan, gravelly-----	4	22	
Clay, sandy-----	7	29	
Pennsylvanian system			
Middle series:			
Shale, sandy, soft, gray-----	9	38	
Shale, soft, gray-----	7	45	
Shale, solid, dark-gray-----	55	100	
Shale, booty, light-gray-----	5	105	
Shale, dark-----	3	108	
Coal-----	2	110	Gas
Limestone-----	5	115	
Rock, white-----	3	118	Limestone (?)
Sandstone-----	9	127	W.B.
Shale-----	1	128	
Slate-----	1	129	
Coal-----	3	132	
Fire clay-----	5	137	
Shale, gray-----	7	144	
Sandstone-----	2	146	
Shale, gray-----	32	178	
Coal-----	.5	178.5	
Shale, gray-----	7.5	186	
Sandstone-----	80	266	W.B.
Shale, gray-----	5	271	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-36Q1

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

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	12	12	
Gravel-----	12	24	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	37	61	
Shale, muddy, gray-----	20	81	
Slate, dark-----	4	85	
Limestone, hard-----	2	87	
Shale, blue-----	8	95	
Limestone, shell-----	5	100	
Shale, light-----	12	112	
Shale, dark, and coal-----	4	116	
Limestone-----	3	119	
Shale, dark-blue-----	120	239	
Shale, light-----	26	265	
Shale, white-----	39	304	
Shale, dark-----	20	324	
Sandstone-----	6	330	T.D. 560 ft

Well 11/ 9W-36R2

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	19	19	
Pennsylvanian system:			
Middle series:			
Shale-----	89	108	
Coal, trace-----	--	108	
Limestone-----	2	110	
Shale-----	8	118	
Sandstone-----	7	125	
Shale, gray-----	1	126	
Slate, black-----	8	134	
Fire clay-----	4	138	
Sandstone-----	2	140	
Shale, sandy-----	5	145	
Shale, soft-----	40	185	
Slate, black-----	3	188	
Coal-----	2	190	
Fire clay-----	4	194	
Sandstone-----	20	214	
Shale, sandy-----	3	217	
Shale, dark-----	11	228	
Sandstone-----	50	278	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/10W- 2H1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan-----	37.5	47.5	
Pennsylvanian system:			
Middle series:			
Shale, light-----	14	61.5	
Slate-----	1	62.5	W.B.
Fire clay-----	2.5	65	
Shale-----	21	86	
Limestone-----	2	88	
Fire clay-----	12	100	
Shale, gray-----	2	102	

Well 11/10W- 2M1

Type of record: Driller's log. Altitude: About 470 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan-----	38	48	
Pennsylvanian system:			
Middle series:			
Limestone-----	5	53	
Shale, white-----	9	62	
Shale, gray-----	28	90	
Coal-----	2	92	
Fire clay-----	--	92	

Well 11/10W- 4G1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan, gray-----	61	76	
Sand-----	3	79	W.B.
Sand and gravel-----	3	82	W.B.
Hardpan-----	1	83	
Sand and gravel-----	6	89	W.B.

Well 11/10W- 4H1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil and yellow clay-----	10	10	
Hardpan, soft, yellow-----	18	28	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/10W-10D1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, blue-----	12	37	

Well 11/10W-10G1

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	1	1	
Clay, yellow-----	18	19	
Clay, sandy, hard-----	16	35	
Pennsylvanian system:			
Middle series:			
Shale-----	--	35	

Well 11/10W-15H1

Type of record: Driller's log. Altitude: About 484 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and gravel-----	40	40	
Pennsylvanian system:			
Middle series:			
Limestone-----	2	42	
Sandstone-----	13	55	
Coal-----	2	57	
Clay-----	8	65	
Shale, sandy-----	35	100	
Shale, gray-----	110	210	
Shale-----	10	220	
Limestone-----	4	224	
Shale, gray-----	16	240	
Shale-----	40	280	
Coal-----	2	282	
Shale, gray-----	18	300	
Shale, dark-----	30	330	T.D. 1,185 ft

Well 11/10W-23B1

Type of record: Driller's log. Altitude: About 475 feet.

Quaternary system:			
Recent and Pleistocene series:			
Soil and gravel-----	10	10	
Gravel, medium-----	35	45	W.B. 17 to 107 ft
Sand, coarse-----	8	53	
Sand, medium-----	12	65	
Sand and gravel, coarse-----	27	92	
Gravel, medium-----	15	107	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/10W-23B1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system: Middle series: Shale-----	2	109	

Well 11/10W-23N1

Type of record: Driller's log.		Altitude: About 470 feet.	
Quaternary system: Recent and Pleistocene series:			
Gravel and sand-----	10	10	
Hardpan-----	7	17	
Gravel-----	47	64	W.B.

Well 11/10W-24L1

Type of record: Driller's log.		Altitude: About 460 feet.	
Quaternary system: Recent and Pleistocene series:			
Top soil, gravelly-----	10	10	
Gravel, fine, muddy-----	62	72	W.B.
Sand, coarse, and fine gravel; clean-----	12	84	W.B.
Pennsylvanian system: Middle series:			
Shale-----	3	87	

Well 11/10W-25C2

Type of record: Driller's log.		Altitude: About 475 feet.	
Quaternary system: Recent and Pleistocene series:			
Sand and gravel-----	20	20	
Pennsylvanian system: Middle series:			
Sandstone-----	18	38	W.B.
Shale, dark-----	21	59	
Coal-----	3	62	W.B.
Fire clay-----	3	65	
Shale, light-----	5	70	
Limestone, hard-----	2	72	
Shale, sandy-----	18	90	W.B.

Well 11/10W-25E1

Type of record: Driller's log.		Altitude: About 480 feet.	
Quaternary system: Recent and Pleistocene series:			
Sand and gravel-----	20	20	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/10W-25E1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Sandstone, white-----	42	62	W.B.
Fire clay-----	5	67	
Coal-----	2	69	W.B.
Shale, light-----	6	75	
Shale, sandy-----	10	85	W.B.

Well 11/10W-25E5

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

Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	23	23	
Pennsylvanian system:			
Middle series:			
Sandstone-----	34	57	W.B.
Shale, dark-----	6	63	
Coal-----	2	65	W.B.
Fire clay-----	3	68	
Shale, gray-----	7	75	
Sandstone-----	7	82	W.B.

Well 11/10W-25F5

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

Quaternary system:			
Recent and Pleistocene series:			
Gravel-----	24	24	
Pennsylvanian system:			
Middle series:			
Shale, limy, sandy, broken-----	32	56	
Shale, dark-----	7	63	
Coal-----	1	64	
Shale-----	3	67	

Well 11/10W-25F6

Type of record: Driller's log. Altitude: About 485 feet.

Quaternary system:			
Recent and Pleistocene series:			
Gravel-----	16	16	
Pennsylvanian system:			
Middle series:			
Sandstone-----	30	46	
Shale, gray-----	18	64	
Coal-----	1	65	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/10W-25F7

Type of record: Driller's log. Altitude: About 485 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	24	24	
Pennsylvanian system:			
Middle series:			
Sandstone-----	17	41	
Shale, dark-----	18	59	
Coal-----	2	61	W.B.
Fire clay-----	2	63	
Shale, dark-----	5	68	
Shale, gray-----	4	72	
Sandstone-----	9	81	

Well 11/10W-25J1

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

Quaternary system:			
Recent and Pleistocene series:			
Open pit-----	10	10	
Gravel-----	9	19	
Pennsylvanian system:			
Middle series:			
Sandstone-----	35	54	
Shale-----	12	66	
Coal-----	2	68	
Fire clay-----	1	69	
Shale, light-----	--	69	

Well 11/10W-25J2

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

Quaternary system:			
Recent and Pleistocene series:			
Gravel-----	25	25	
Pennsylvanian system:			
Middle series:			
Limestone, sandy, white-----	25	50	
Shale-----	5	55	

Well 11/10W-25L1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	12	12	
Pennsylvanian system:			
Middle series:			
Sandstone-----	38	50	W.B.
Shale, dark-----	8	58	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/10W-25L1--Continued *			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	1	59	
Shale, gray-----	10	69	
Limestone-----	1	70	
Sandstone, white-----	23	93	W.B.

Well 11/10W-25M1			
Type of record: Driller's log.		Altitude: About 480 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Gravel-----	24	24	
Pennsylvanian system:			
Middle series:			
Sandstone, red-----	3	27	
Sandstone, gray-----	29	56	
Coal-----	1	57	
Fire clay-----	8	65	
Shale-----	10	75	
Sandstone-----	8	83	
Shale-----	8	91	

Well 11/10W-25N2			
Type of record: Driller's log.		Altitude: About 485 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Gravel-----	13	13	
Pennsylvanian system:			
Middle series:			
Limestone-----	37	50	
Shale, dark-----	11	61	
Coal-----	2	63	
Fire clay-----	2	65	

Well 11/10W-26R1			
Type of record: Driller's log.		Altitude: About 475 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Gravel-----	27	27	
Hardpan-----	15	42	
Sand-----	10	52	W.B.
Gravel-----	--	52	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

		Well 12/ 8W- 1R1		
Type of record: Driller's log.				Altitude: About 590 feet.
Material	Thick- ness (feet)	Depth (feet)	Remarks	
Quaternary system:				
Recent and Pleistocene series:				
Surface-----	17	17		
Softpan, yellow-----	7	24		
Hardpan, gray-----	28	52		
Softpan-----	35	87		
Pennsylvanian system:				
Middle (?) series:				
Shale, light-----	1	88		
Slate, dark-blue-----	12	100		
Shale, soft, light-----	8	108		
Limestone, shelly-----	2	110		
Chip slate, black-----	3	113		
Clay, cavy, dark-----	10	123		
Shale, clayey, cavy, light-----	26	149		
Shale, sandy, hard, light-blue---	5	154		
Shale, dark-----	9	163		
Shale, sandy, light-----	5	168		
Lower series:				
Shale, dark-----	3	171		
Shale, sandy, blue-----	25	196		
Shale, sandy, gray-----	12	208		
Slate, brown-----	9	217		
Coal-----	1	218		
Fire clay, tough-----	7	225		
Shale, sandy, light-----	5	230		
Shale, sandy, blue-----	18	248		
Coal-----	2	250		
Fire clay-----	2	252		
Shale, sandy, light-----	33	285		
Shale, sandy, blue-----	40	325		
Sandstone, gray-----	12	337	W.B.	
Shale, sandy, blue-----	2	339		
Sandstone, soft, blue-----	16	355	W.B.	
Shale, dark-blue-----	8	363		

		Well 12/ 8W- 2A1		
Type of record: Driller's log.				Altitude: About 590 feet.
Material	Thick- ness (feet)	Depth (feet)	Remarks	
Quaternary system:				
Recent and Pleistocene series:				
Surface-----	13	13		
Sand, red-----	30	43		
Hardpan-----	2	45		
Gravel-----	2	47		
Hardpan-----	6	53		
Gravel-----	5	58		
Pennsylvanian system:				
Middle (?) series:				
Shale-----	2	60		

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W- 2R2

Type of record: Driller's log.

Altitude: About 580 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Hardpan, gray-----	38	58	
Pennsylvanian system:			
Middle (?) series:			
Shale, sandy, light-----	6	64	
Shale, sandy, dark-----	4	68	
Slate, sandy, gray-----	5	73	
Coal-----	6	79	
Clay-----	3	82	
Shale, sandy, white-----	3	85	
Shale, sandy, blue-----	5	90	
Slate, black-----	4	94	
Coal-----	2	96	
Shale, sandy, light-----	3	99	

Well 12/ 8W- 6D1

Type of record: Driller's log.

Altitude: About 585 feet.

Quaternary system:			
Recent and Pleistocene series:			
Muck-----	13.5	13.5	
Sand and gravel-----	1.5	15	
Softpan-----	5	20	
Sand and gravel, streak-----	--	20	
Pennsylvanian system:			
Middle series:			
Slate, blue, and coal-----	2	22	
Fire clay, soft-----	5	27	
Shale, sandy, gray-----	53	80	
Slate, black-----	4	84	
Coal-----	5	89	
Fire clay, hard-----	1	90	
Shale, sandy, light-----	5	95	
Coal-----	1	96	
Shale, sandy, light-----	6	102	
Sandstone, blue-----	10	112	
Shale, sandy, light-----	6	118	
Slate, dark-blue-----	9	127	
Coal-----	2	129	
Fire clay, white-----	2	131	
Shale, sandy, white-----	17	148	
Slate, brown-----	5	153	
Coal-----	3	156	
Clay-----	1	157	
Shale, sandy, light-----	7	164	
Coal-----	1	165	
Shale, sandy, light-----	14	179	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W- 6D1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower (?) series:			
Chip slate, black-----	4	183	
Coal-----	1	184	
Shale, light-----	1	185	

Well 12/ 8W- 6M1			
Type of record: Driller's log.		Altitude:--	About 580 feet.
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Softpan, yellow-----	15	30	
Hardpan, gray, and trace of sand-	33	63	W.B.
Hardpan, dark-----	27	90	
Softpan, yellow-----	10	100	
Wash, clayey, gray-----	15	115	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	--	115	

Well 12/ 8W- 6M2			
Type of record: Driller's log.		Altitude:--	About 580 feet.
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	21	21	
Softpan, yellow-----	9	30	
Sand, trace-----	--	30	W.B.
Softpan, gray-----	6	36	
Hardpan, gray-----	50	86	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	26	112	
Slate, blue-----	10	122	
Shale, gray-----	10	132	
Slate, hard, dark-----	1	133	
Slate, black-----	3	136	
Chip slate, black-----	6	142	
Shale, sandy, gray-----	25	167	
Coal, trace-----	--	167	
Fire clay, dark-----	2	169	
Shale, gray-----	3	172	
Coal-----	1	173	
Fire clay, blue-----	3	176	
Shale, sandy, light-----	3	179	
Shale, sandy, gray-----	10	189	
Shale, light-----	4	193	
Sandstone, gray-----	7	200	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W- 8P1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Hardpan-----	12	71	
Gravel-----	7	78	W.B.

Well 12/ 8W- 8Q1

Type of record: Driller's log.

Altitude: About 563 feet.

Quaternary system:			
Recent and Pleistocene series:			
Soil, clay, sand and gravel seams, and hardpan-----	152	152	
Pennsylvanian system:			
Lower series:			
Slate, black-----	12	164	
Sandstone and sandy shale-----	7	171	
Shale, gray-----	2.8	173.8	
Coal-----	1.5	175.3	
Shale, slightly sandy-----	9.6	184.9	
Sandstone-----	4.6	189.5	
Coal-----	.5	190	
Sandstone-----	5.5	195.5	
Shale, gray-----	.5	196	
Sandstone-----	1	197	
Sandstone and shale-----	8.5	205.5	
Slate, gray-----	2.5	208	
Coal-----	1.5	209.5	
Clay-----	1.5	211	
Shale, light-gray-----	6.1	217.1	
Limestone-----	1.7	218.8	
Slate, black-----	5.2	224	
Shale, gray-----	4.5	228.5	
Sandstone-----	.3	228.8	
Shale, sandy-----	13.2	242	
Slate, black-----	3	245	
Coal-----	3	248	
Clay-----	2	250	
Slate, black-----	4	254	
Shale, gray-----	1	255	
Slate, gray, with siderite-----	3.5	258.5	
Shale, gray-----	18.5	277	
Shale, dark-----	2	279	
Limestone-----	1.1	280.1	
Slate, fossilized, black, some coal-----	9.9	290	
Sandstone, limy-----	10	300	
Shale, gray, with siderite bands-----	21	321	
Sandstone, limy-----	24	345	T.D. 790 ft

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W- 9N1			
Type of record: Driller's log.		Altitude: About 560 feet.	
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Sand-----	4	24	
Hardpan-----	45	69	
Sand-----	4	73	W.B.
Sand and gravel, yellow-----	13	86	W.B.

Well 12/ 8W-10R1			
Type of record: Driller's log.		Altitude: About 600 feet.	
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	21	21	
Pennsylvanian system:			
Middle series:			
Sandstone-----	20	41	
Shale, blue-----	30	71	
Slate, black-----	6	77	
Coal-----	1	78	
Fire clay-----	2	80	

Well 12/ 8W-11D1			
Type of record: Driller's log.		Altitude: About 580 feet.	
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Hardpan, gray-----	11	25	
Sand and gravel-----	2	27	
Hardpan, gray-----	28	55	
Wash, yellow-----	7	62	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	3	65	
Slate, gray-----	5	70	
Slate, dark-----	4	74	
Coal-----	4	78	
Fire clay, blue-----	3	81	
Shale, sandy, blue-----	10	91	
Slate, dark-----	7	98	
Coal-----	2	100	W.B.
Shale, gray-----	10	110	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-11F1			
Type of record:	Driller's log.	Altitude:	About 580 feet.
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	18	18	
Hardpan-----	12	30	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	5	35	
Slate, dark-----	15	50	
Slate, black-----	4	54	W.B.
Fire clay-----	4	58	
Shale, sandy-----	6	64	
Slate, gray-----	4	68	W.B.
Coal-----	5	73	
Fire clay-----	6	79	
Sandstone-----	7	86	W.B.
Shale, dark-----	2	88	

Well 12/ 8W-11K1			
Type of record:	Driller's log.	Altitude:	About 580 feet.
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	25	25	
Sand and gravel-----	1	26	
Hardpan, gray-----	19	45	
Pennsylvanian system:			
Middle series:			
Shale, sandy, light-----	15	60	
Slate, gray-----	7	67	
Coal-----	4	71	
Fire clay, cavy-----	7	78	
Shale, light-----	4	82	
Shale, sandy, blue-----	3	85	
Slate, black-----	10	95	
Clay-----	2	97	
Shale, cavy, gray-----	8	105	
Slate, black-----	2	107	
Coal, trace-----	--	107	
Clay-----	2	109	
Shale, cavy, gray-----	7	116	
Slate, blue-----	3	119	
Coal, trace-----	--	119	
Shale, cavy, light-gray-----	5	124	
Shale, cavy, white-----	5	129	
Shale, cavy, light-gray-----	15	144	
Shale, sandy, gray-----	3	147	
Shale, gray-----	4	151	
Shale, dark-gray-----	15	166	
Shale, sandy, light-----	2	168	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-11K1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower (?) series:			
Limestone-----	2	170	
Shale, dark-----	6	176	
Shale, sandy, dark-blue-----	24	200	
Shale, sandy, blue-----	17	217	
Limestone-----	1	218	
Slate, sandy, dark-----	2	220	
Coal-----	1	221	
Shale, sandy, light-----	7	228	
Sandstone, white-----	50	278	W.B.; "Bad water"
Sandstone, blue-----	5	283	
Shale, dark-blue-----	4	287	
Shale, sandy, gray-----	4	291	
Shale, sandy, blue-----	26	317	
Sandstone, blue-----	15	332	
Shale, sandy, blue-----	52	384	
Sandstone, blue-----	12	396	
Shale, blue-----	14	410	
Shale, sandy, blue-----	4	414	
Sandstone-----	36	450	W.B.

Well 12/ 8W-11P1

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

Record missing-----	99	99	
Pennsylvanian system:			
Middle series:			
Fire clay, white-----	5	104	
Slate, sandy, gray-----	6	110	
Limestone-----	1	111	
Slate, black-----	5	116	
Shale, gray-----	12	128	
Coal-----	2	130	
Fire clay-----	6	136	
Shale, gray-----	6	142	
Shale (?), light-gray-----	14	156	
Shale, gray-----	14	170	
Shale, dark-black-----	4	174	
Shale, sandy, blue-----	2	176	
Lower (?) series:			
Shale, gray-----	8	184	
Shale, sandy, blue-----	5	189	
Shale, dark-blue-----	5	194	
Shale, sandy, blue-----	4	198	
Shale, sandy, gray-----	15	213	
Shale, dark-----	4	217	
Shale, sandy, gray-----	15	232	
Shale, gray-----	24	256	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-11P1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower (?) series:			
Shale, sandy, gray-----	11	267	
Shale, sandy, light-gray-----	21	288	
Shale, dark-gray-----	10	298	
Shale, sandy, light-gray-----	5	303	
Sandstone, pasty, gray-----	25	328	
Sandstone, gray-----	13	341	"Bad water"
Sandstone, blue-----	9	350	Do
Shale, sandy, blue-----	25	375	Do
Sandstone, pasty, gray-----	15	390	
Shale, sandy, blue-----	15	405	
Sandstone, blue-----	100	505	W.B.
Well 12/ 8W-11R1			
Type of record: Driller's log.		Altitude: About 580 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Sand, yellow-----	4	18	
Hardpan, dark-----	26	44	
Softpan, dark-----	23	67	
Pennsylvanian system:			
Middle series:			
Sandstone-----	13	80	
Coal-----	5.5	85.5	
Fire clay-----	3.5	89	
Shale, white-----	6	95	
Slate, blue-----	3.5	98.5	
Limestone, hard-----	1.5	100	
Slate, blue-----	5	105	
Coal-----	3	108	
Fire clay-----	2	110	
Shale, light-----	30	140	
Shale, blue-----	30	170	
Sandstone-----	10	180	W.B.
Lower (?) series:			
Shale, sandy, blue-----	83	263	
Coal-----	1	264	
Fire clay-----	3	267	
Shale, sandy, light-----	15	282	
Sandstone, blue-----	19	301	W.B.
Sandstone, white-----	99	400	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-12C1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	17	17	
Sand-----	26	43	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	21	64	
Coal-----	5	69	
Fire clay-----	5	74	
Shale, black-----	31	105	
Coal-----	1	106	
Shale, gray-----	24	130	
Sandstone-----	19	149	
Lower (?) series:			
Shale, sandy-----	121	270	
Sandstone-----	15	285	

Well 12/ 8W-12G1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, red-----	15	15	
Hardpan-----	45	60	
Sand and gravel-----	15	75	
Pennsylvanian system:			
Middle series:			
Shale, light-----	10	85	
Limestone, hard-----	2	87	
Coal-----	3	90	W.B.
Shale, dark-----	5	95	
Shale, light-----	5	100	
Sandstone, white-----	35	135	W.B.
Shale, light-----	10	145	
Slate, dark-----	7	152	
Sandstone, dark-----	16	168	
Sandstone, broken-----	7	175	
Sandstone, white-----	15	190	W.B.
Lower (?) series:			
Shale, dark-----	--	190	

Well 12/ 8W-13P1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan, gray-----	7	25	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-13P1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Sandstone, pasty, gray-----	4	29	
Slate, sandy, gray-----	10	39	W.B.
Slate, gray-----	13	52	
Slate, black-----	8	60	
Coal, trace-----	--	60	
Fire clay, white-----	3	63	
Slate, gray-----	4	67	
Slate, dark-----	3	70	
Coal, trace-----	--	70	
Slate, gray-----	20	90	
Coal-----	1	91	
Slate, gray-----	16	107	
Slate, dark-----	3	110	
Coal-----	2	112	
Fire clay-----	3	115	
Shale, gray-----	5	120	

Well 12/ 8W-14J1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	48	48	
Pennsylvanian system:			
Middle series:			
Fire clay-----	4	52	
Sandstone, gray-----	5	57	
Shale, gray-----	15	72	
Slate, black-----	8	80	
Fire clay-----	3	83	
Shale, gray-----	7	90	
Sandstone-----	4	94	
Coal-----	5	99	
Fire clay-----	4	103	
Limestone-----	3	106	
Slate, black-----	4.5	110.5	
Coal-----	1.5	112	
Shale, sandy-----	11	123	
Slate, black-----	4	127	
Fire clay-----	5	132	
Shale, sandy-----	6	138	
Coal-----	1	139	
Fire clay-----	4	143	
Shale, sandy-----	51	194	
Sandstone-----	9	203	
Lower (?) series:			
Shale, sandy, gray-----	40	243	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-14J1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower (?) series:			
Coal-----	1	244	
Fire clay-----	3	247	
Sandstone-----	23	270	
Shale, dark-----	15	285	
Sandstone-----	30	315	W.B.
Shale, sandy, gray-----	10	325	

Well 12/ 8W-15A1

Type of record: Driller's log.		Altitude: About 595 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Pennsylvanian system:			
Middle series:			
Sandstone-----	7	25	
Shale, blue-----	45	70	
Limestone-----	5	75	
Sandstone-----	40	115	W.B.
Coal-----	3	118	

Well 12/ 8W-15B1

Type of record: Driller's log.		Altitude: About 590 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Pennsylvanian system:			
Middle series:			
Sandstone-----	10	28	
Slate-----	17	45	
Coal-----	1	46	
Clay-----	3	49	
Slate, gray-----	16	65	
Sandstone, white-----	35	100	W.B.

Well 12/ 8W-15C2

Type of record: Driller's log.		Altitude: About 500 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Pennsylvanian system:			
Middle series:			
Sandstone, soft, yellow-----	8	28	
Shale, gray-----	20	48	
Sandstone-----	7	55	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-15C2--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	5	60	
Shale, dark-----	8	68	
Coal-----	6	74	
Shale, light-----	10	84	
Shale, sandy-----	11	95	
Coal-----	2	97	
Shale, light-----	5	102	
Shale, blue-----	8	110	
Well 12/ 8W-15D1			
Type of record: Driller's log.		Altitude: About 570 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	20	20	
Hardpan-----	11	31	
Boulders-----	4	35	
Sand and gravel-----	13	48	
Hardpan-----	8	56	
Shale, soft, dark-----	9	65	Soft clay (?)
Mud and gravel-----	25	90	
Pennsylvanian system:			
Middle series:			
Shale, soft, light-----	10	100	
Slate, black-----	4	104	
Sandstone-----	8	112	W.B.
Shale, light-----	4	116	
Limestone-----	2	118	
Slate, black-----	3	121	W.B.
Coal-----	2	123	
Fire clay-----	11	134	
Well 12/ 8W-15E1			
Type of record: Driller's log.		Altitude: About 575 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	20	20	
Hardpan and gravel-----	35	55	
Mud and gravel-----	23	78	
Pennsylvanian system:			
Middle series:			
Coal-----	2	80	W.B.
Fire clay-----	2	82	
Shale, sandy-----	23	105	
Shale, dark-----	45	150	
Slate, black, and coal-----	6	156	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-17F2

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	10	10	
Shale, blue-----	34	44	Clay (?)
Shale, sandy-----	6	50	Sandy clay (?)
Shale, blue-----	13	63	Clay (?)
Sand and gravel-----	5	68	W.B.
Pennsylvanian system:			
Middle series:			
Coal and slate-----	2	70	
Sandstone-----	2	72	
Shale-----	10	82	

Well 12/ 8W-18B1

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

Quaternary system:			
Recent and Pleistocene series:			
Record missing-----	5	5	
Clay, sandy-----	25	30	
Quicksand-----	11	41	
Hardpan-----	44	85	
Sand-----	2	87	W.B.

Well 12/ 8W-18R1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand-----	65	65	
Sand and gravel, yellow-----	17	82	
Sand and gravel-----	6	88	
Sand, gray-----	10	98	

Well 12/ 8W-18R3

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

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	5	5	
Hardpan, sandy-----	133	138	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	17	155	
Slate, black-----	13	168	
Coal-----	2	170	
Fire clay-----	2	172	
Sandstone, light-----	6	178	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-18R3--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	19	197	
Sandstone, dark-----	11	208	
Slate, black-----	2	211	
Coal-----	2	213	
Fire clay-----	5	218	
Slate, black, with a thin lime- stone shell-----	3	221	
Coal-----	4	225	W. B.
Sandstone-----	10	235	
Lower (?) series:			
Limestone, broken-----	8	243	
Limestone, shell, hard-----	2	245	
Slate, black-----	5	250	
Shale, dark-----	5	255	
Coal-----	2	257	
Shale, brown-----	6	263	

Well 12/ 8W-19A1			
Type of record: Driller's log.		Altitude: About 560 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Soil and surface-----	41	41	
Pennsylvanian system:			
Middle series:			
Fire clay-----	4	45	
Shale, dark-----	8	53	
Shale, gray-----	11	64	
Slate, black-----	5	69	
Fire clay-----	3	72	
Shale, gray-----	18	90	
Sandstone-----	5	95	
Coal-----	5	100	
Fire clay and shale-----	7.5	107.5	
Slate, black-----	4	111.5	
Coal-----	1.5	113	
Shale, sandy-----	14	127	
Slate, black-----	4	131	
Shale, gray-----	20	151	
Shale, sandy-----	26	177	
Shale, dark-----	43	220	
Shale, gray-----	15	235	
Lower (?) series:			
Slate, black-----	4	239	
Coal-----	2	241	
Fire clay-----	3	244	
Shale, dark-----	17	261	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-19A1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower (?) series:			
Coal-----	1	262	
Fire clay-----	3	265	
Shale, sandy, dark-----	30	295	
Sandstone, white-----	25	320	W.B.

Well 12/ 8W-19N1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	15	15	
Shale, sandy-----	3	18	Sandy clay (?)
Gravel-----	1	19	"Dry"
Shale, soft, sandy-----	19	38	Soft sandy clay (?)
Sand, fine-----	9	47	
Coal-----	1	48	
Quicksand-----	18	66	
Shale, sandy-----	3	69	Sandy clay (?)
Sand, coarse-----	2	71	W.B.
Sand and gravel-----	9	80	W.B.
Pennsylvanian system:			
Middle series:			
Sandstone-----	2	82	W.B.

Well 12/ 8W-21A1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan, gray-----	36	54	
Sand and fine gravel-----	3	57	
Hardpan-----	4	61	
Pennsylvanian (?) system:			
Middle (?) series:			
Shale, soft, light-----	17	78	
Shale, green-----	7	85	
Shale, soft, light-----	21	106	
Coal and clay-----	2	108	W.B.

Well 12/ 8W-21H1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-21H1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, fine, yellow-----	5	23	
Hardpan, gray-----	22	45	
Pennsylvanian system:			
Middle series:			
Slate, dark-blue-----	2	47	
Coal-----	3.5	50.5	
Fire clay, light-blue-----	3.5	54	
Sandstone, gray-----	4	58	
Slate, sandy, gray-----	11	69	
Shale, light-gray-----	14	83	
Slate, dark-blue-----	5	88	
Slate, light-blue-----	20	108	
Slate, black-----	3	111	
Coal-----	4.5	115.5	
Fire clay-----	--	115.5	

Well 12/ 8W-21Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan-----	37	55	
Pennsylvanian system:			
Middle series:			
Sandstone-----	5	60	
Shale, sandy, light-----	5	65	
Sandstone-----	20	85	
Mine opening-----	5	90	

Well 12/ 8W-21R1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Pennsylvanian system:			
Middle series:			
Sandstone, clayey, soft-----	5	25	
Clay, yellow-----	10	35	
Sandstone, pasty, light-blue-----	45	80	W.B.

Well 12/ 8W-22D1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20.5	20.5	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-22D1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy, blue-----	15.5	36	
Sandstone-----	28	64	
Coal-----	1	65	
Clay, dark-----	2	67	
Shale, sandy, blue-----	21	88	
Slate, black-----	2	90	

Well 12/ 8W-22N1			
Type of record: Driller's log.		Altitude: About 580 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	25	25	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	20	45	
Sandstone-----	37	82	
Shale, brown-----	18	100	
Sandstone-----	20	120	
Coal-----	3	123	
Shale, light-----	4	127	
Shale, blue-----	16	143	
Slate, black-----	11	154	
Shale, light-----	4	158	
Sandstone-----	2	160	
Shale, light-----	6	166	
Coal-----	6	172	
Shale-----	3	175	

Well 12/ 8W-24A1			
Type of record: Driller's log.		Altitude: About 605 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Hardpan, gray-----	15	31	
Pennsylvanian system:			
Middle series:			
Coal, trace-----	--	31	
Slate, sandy, gray-----	18	49	
Slate, gray-----	10	59	
Slate, black-----	6	65	
Coal-----	1	66	
Fire clay, hard-----	3	69	
Slate, sandy, light-gray-----	9	78	
Slate, gray-----	19	97	
Coal-----	2	99	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-24A1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Fire clay-----	3	102	
Slate, black-----	4	106	
Shale, sandy, light-gray-----	11	117	

Well 12/ 8W-24B2

Type of record: Driller's log.		Altitude: About 605 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Softpan, gray-----	16	36	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	3	39	
Coal-----	2	41	
Fire clay, hard-----	2	43	
Sandstone, pasty, gray-----	10	53	W.B.
Slate, gray-----	7	60	

Well 12/ 8W-24M1

Type of record: Driller's log.		Altitude: About 580 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan, gray-----	31	49	
Sand and gravel, dirty-----	2	51	W.B.
Pennsylvanian system:			
Middle series:			
Slate, blue-----	1	52	

Well 12/ 8W-24P1

Type of record: Driller's log.		Altitude: About 590 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Softpan, yellow-----	6	24	
Hardpan, gray-----	28	52	
Sand and gravel-----	9	61	W.B.

Well 12/ 8W-25C1

Type of record: Driller's log.		Altitude: About 585 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-25C1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Hardpan, gray-----	32	46	
Sand and gravel-----	4	50	W.B.
Wash-----	1.5	51.5	W.B.

Well 12/ 8W-25M1

Type of record: Driller's log.

Altitude: About 580 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	13	13	
Sandstone-----	5	18	Cemented sand (?)
Hardpan-----	27	45	
Drift-----	5	50	
Hardpan-----	15	65	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	5	70	
Slate, black-----	10	80	
Shale, light-----	15	95	
Coal and dirty band-----	8	103	
Shale, light-----	2	105	
Coal-----	3	108	
Shale, light-----	17	125	
Slate, black-----	2	127	
Coal-----	2	129	
Shale, light-----	14	143	
Coal-----	4	147	
Shale, light-----	20	167	
Limestone-----	8	175	
Shale, dark-----	14	189	
Limestone-----	5	194	
Shale, light-----	6	200	
Shale, dark-----	5	205	
Limestone-----	5	210	
Shale, light-----	10	220	
Sandstone-----	15	235	
Lower (?) series:			
Shale, dark-----	10	245	
Coal-----	4	249	
Sandstone-----	6	255	
Shale, light-----	10	265	
Shale, dark-----	5	270	
Shale, light-----	15	285	
Sandstone-----	5	290	
Shale, dark-----	10	300	
Shale, light-----	15	315	
Coal-----	3	318	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-26Q1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan, gray-----	12	27	
Softpan, yellow-----	8	35	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	10	45	
Slate, sandy, gray-----	20	65	W.B.
Slate, gray-----	15	80	
Coal-----	--	80	

Well 12/ 8W-26R2

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

Quaternary system:			
Recent and Pleistocene series:			
Surface and pan-----	30	30	
Pennsylvanian system:			
Middle series:			
Shale, dark-gray-----	16	46	
Coal-----	1.5	47.5	
Shale, dark-gray-----	26.5	74	
Slate, black-----	10	84	
Shale, sandy, gray-----	14	98	
Coal-----	7	105	
Clay, hard-----	1	106	
Shale, sandy, hard, dark-gray---	4	110	
Coal and sulfur-----	1	111	
Shale, sandy, gray-----	2	113	
Limestone, dark-----	1.5	114.5	
Shale, sandy, gray-----	11.5	126	
Shale, dark-gray-----	2	128	
Coal-----	1	129	
Shale, sandy, gray-----	6	135	
Shale, dark-gray-----	5.5	140.5	
Coal-----	3.5	144	
Clay, hard-----	1	145	
Shale, sandy, gray-----	5	150	W.B.
Shale, gray-----	6	156	

Well 12/ 8W-27Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Hardpan, gray-----	8	24	
Softpan, gray-----	27	51	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-27Q1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Rock, clayey, yellow-----	10	61	
Sandstone, pasty, gray-----	20	81	W.B.
Shale, sandy, blue-----	6	87	

Well 12/ 8W-28A1

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

Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	18	18	
Hardpan-----	5	23	
Softpan-----	33	56	
Pennsylvanian system:			
Middle series:			
Sandstone, yellow-----	2	58	
Sandstone, white-----	26	84	W.B.

Well 12/ 8W-28Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan-----	9	24	
Sand and gravel-----	.5	24.5	
Hardpan, gray, with streaks of sand-----	45.5	70	
Pan, tough, light-green-----	31	101	
Muck, soft, dark-----	20	121	
Sand, gray-----	3.5	124.5	W.B.

Well 12/ 8W-28R1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand-----	43	43	
Hardpan-----	29	72	
Sand and gravel-----	11	83	W.B.
Pennsylvanian system:			
Middle series:			
Shale-----	--	83	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-29C2

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Sand-----	7	23	
Hardpan-----	42	65	
Sand and hardpan-----	62	127	
Pennsylvanian system:			
Middle series:			
Coal-----	--	127	

Well 12/ 8W-29D1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	30	30	
Hardpan-----	12	42	
Sand and gravel-----	8	50	W.B.

Well 12/ 8W-29H1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	29	29	
Pennsylvanian system:			
Middle series:			
Slate, black-----	15	44	
Sandstone-----	10	54	
Limestone-----	6	60	
Shale-----	25	85	
Coal-----	5	90	

Well 11/ 8W-29J1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	17	17	
Sand, fine-----	1	18	Dry
Hardpan-----	28	46	
Sand, dirty-----	4	50	W.B.
Pennsylvanian (?) system:			
Middle (?) series:			
Coal-----	1	51	
Hardpan and slate-----	29	80	Shale (?) and slate

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-29N1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Sand-----	4	22	
Hardpan-----	16	38	
Sand and gravel-----	2	40	W.B.
Hardpan and cemented gravel-----	20	60	
Sand and gravel-----	10	70	W.B.

Well 12/ 8W-30B1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	20	20	
Glacial drift and boulders-----	10	30	
Hardpan, blue-----	30	60	
Sand and boulders-----	20	80	
Pennsylvanian system:			
Middle series:			
Fire clay, white-----	10	90	
Shale, sticky, blue-----	60	150	
Slate, black-----	10	160	
Coal-----	6	166	

Well 12/ 8W-30B2

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil-----	5	5	
Clay-----	7	12	
Clay, sandy-----	28	40	
Shale, sandy, gray-----	16	56	
Sand, fine, brown-----	4	60	W.B.
Sand, gray, coal and wood-----	11	71	W.B.
Sand, coarse, gray-----	3	74	W.B.
Gravel, small, and sand-----	5	79	W.B.

Well 12/ 8W-30Q1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	25	25	
Hardpan-----	23	48	
Sand-----	10	58	W.B.
Drift-----	3	61	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-31A3

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	22	22	
Hardpan-----	21	43	
Sand and gravel, blue-----	5	48	W.B.
Sand, gray-----	3	51	W.B.

Well 12/ 8W-31B1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	21	21	
Hardpan, gray-----	15	36	
Hardpan, dark-----	34	70	
Sand and gravel, dirty-----	2	72	W.B.

Well 12/ 8W-31J2

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	25	25	
Hardpan, gray-----	17	42	
Sand, dirty-----	2	44	
Hardpan, gray-----	45	89	
Sand and gravel-----	8	97	W.B.

Well 12/ 8W-31R1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	24	24	
Hardpan, gray-----	10	34	
Softpan, yellow, and streak of gravel and sand-----	6	40	W.B.
Hardpan, gray-----	3	43	

Well 12/ 8W-32B1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Softpan, gray-----	9	24	
Hardpan, gray-----	13	37	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-32B1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Sandstone, soft, blue-----	3	40	
Slate, blue-----	3	43	
Slate, black-----	4	47	
Coal-----	3	50	
Fire clay-----	3	53	

Well 12/ 8W-32D1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	13	13	
Softpan, yellow-----	9	22	
Hardpan, gray-----	48	70	
Sand, dirty, gray-----	4	74	W.B.
Wash, gray-----	4	78	W.B.
Sand, gray-----	4	82	W.B.
Sand, coarse, and wheat-gravel---	4	86	W.B.
Sand and gravel, gray-----	4	90	W.B.

Well 12/ 8W-32D2

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

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	18	18	
Hardpan-----	20	38	
Gravel-----	10	48	W.B.

Well 12/ 8W-32E1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	22	22	
Hardpan, gray-----	38	60	
Wash, gray-----	22	82	
Sand and gravel-----	4	86	W.B.
Hardpan-----	2	88	

Well 12/ 8W-32N1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	
Hardpan, gray-----	24	41	
Sand and gravel-----	12	53	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-32R1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Sand, fine-----	20	30	
Hardpan-----	47	77	
Gravel-----	2	79	W.B.
Pennsylvanian system:			
Middle series:			
Shale-----	1	80	

Well 12/ 8W-34B1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Softpan, dark-----	44	60	
Pennsylvanian system:			
Middle series:			
Sandstone, shaly, blue-----	5	65	
Sandstone, pasty, yellow-----	26	91	W.B.
Coal, trace-----	--	91	
Shale, sandy, light-gray-----	6	97	

Well 12/ 8W-34H1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Sand and gravel-----	2	18	
Pan, sandy-----	2	20	
Sand and gravel-----	8	28	
Pan, sandy-----	36	64	
Sand-----	22	86	
Pan-----	10	96	
Sand and gravel-----	2	98	
Hardpan-----	2	100	
Sand and gravel-----	2	102	
Hardpan-----	7	109	
Sand and gravel-----	2	111	
Hardpan-----	4	115	
Sand and gravel-----	2	117	
Hardpan-----	8.5	125.5	
Pennsylvanian system:			
Middle series:			
Slate, soft, black-----	1.5	127	
Coal-----	1.5	128.5	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 9W- 1N3--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Dirt, soft, and sand-----	8	14	W.B. 30 to 120 ft.
Gravel, medium-----	39	53	
Gravel, fine-----	12	65	
Sand, coarse-----	10	75	
Gravel, fine-----	5	80	
Gravel, medium-----	10	90	
Sand, coarse, and gravel-----	30	120	
Pennsylvanian system:			
Middle series:			
Shale or slate-----	--	120	

Well 12/ 9W- 2F2

Type of record: Driller's log. Altitude: About 495 feet.

Quaternary system:			
Recent and Pleistocene series:			
Dirt and sand-----	20	20	W.B. 31 to 52 ft
Sand and gravel-----	16	36	
Gravel-----	11	47	
Sand-----	5	52	
Gravel, fine-----	--	52	

Well 12/ 9W- 2L1

Type of record: Driller's log. Altitude: About 495 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	5	5	W.B. W.B.
Gravel-----	35	40	
Gravel and sand-----	20	60	
Gravel-----	25	85	
Sand and gravel-----	34	119	
Pennsylvanian system:			
Middle series:			
Shale-----	16	135	W.B.
Shale, gray-----	5	140	
Coal and black shale-----	2	142	
Shale, gray-----	13	155	
Sandstone, gray-----	15	170	
Shale, gray-----	7	177	
Coal and black shale-----	2	179	
Shale, gray-----	12	191	
Coal and black shale-----	2	193	
Shale, gray-----	22	215	
Sandstone, gray-----	7	222	
Shale, sandy-----	2	224	
Sandstone, gray-----	21	245	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 9W- 2L1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	10	255	
Shale, sticky, dark-----	5	260	
Coal and black shale-----	1	261	
Shale, sandy-----	44	305	T.D. 585 ft

Well 12/ 9W- 3A2

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

Quaternary system:

Recent and Pleistocene series:

Record missing-----	9	9	
Sand, fine, brown-----	39	48	
Gravel-----	2	50	W.B.
Sand, fine, brown-----	33	83	W.B.
Gravel-----	7	90	W.B.

Well 12/ 9W- 3B1

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

Quaternary system:

Recent and Pleistocene series:

Surface-----	41	41	
Gravel-----	11	52	
Sand-----	10	62	
Gravel, medium-----	20.5	82.5	

Well 12/ 9W- 3D1

Type of record: Driller's log. Altitude: About 470 feet.

Quaternary system:

Recent and Pleistocene series:

Surface drift-----	1	1	
Gravel, coarse-----	8	9	
Sand, red-----	20	29	
Sand and gravel-----	83	112	W.B.
Drift, blue-----	1.3	113.3	

Pennsylvanian system:

Middle series:

Slate, black-----	3.5	116.8	
Shale, sandy-----	3.4	120.2	
Sandstone, hard-----	2.6	122.8	
Shale, sandy-----	1.5	124.3	
Sandstone, hard-----	2.6	126.9	
Slate, soft, gray-----	11.9	138.8	
Slate, hard, blue-----	3.5	142.3	
Slate, black-----	1.3	143.6	
Slate, gray-----	3.2	146.8	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 9W- 4E1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, dark, hard bands-----	20	126.5	
Slate, black-----	1	127.5	
Coal-----	2	129.5	
Shale, sandy, gray-----	36	165.5	
Coal-----	4.5	170	

Well 12/ 9W- 4F1

Type of record: Driller's log. Altitude: About 467 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand-----	93	93	
Gravel-----	30	123	
Pennsylvanian system:			
Middle series:			
Sandstone, hard-----	6	129	
Sandstone-----	8	137	
Shale, hard, brown-----	30	167	
Shale, moderately hard, brown---	2	169	
Coal-----	6.3	175.3	

Well 12/ 9W- 4K1

Type of record: Driller's log. Altitude: About 459 feet.

Quaternary system:			
Recent and Pleistocene series:			
Soil, sandy-----	20	20	
Sand and gravel-----	84.6	104.6	W.B.
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	1.3	105.9	
Sandstone-----	2.2	108.1	
Shale, sandy-----	5.6	113.7	
Slate, blue-----	.7	114.4	
Sandstone-----	.6	115	
Slate, gray-----	9.7	124.7	
Coal-----	4.5	129.2	
Fire clay-----	1.4	130.6	
Rash and sticky shale-----	10.9	141.5	
Slate, gray-----	3.4	144.9	
Sandstone-----	1.3	146.2	

Well 12/ 9W- 4M1

Type of record: Driller's log. Altitude: About 464 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and sand-----	80	80	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 9W- 4M1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	11	91	
Pennsylvanian system:			
Middle series:			
Shale, soft, blue, with hard bands-----	19	110	
Slate, black-----	2	112	
Coal-----	1	113	
Fire clay-----	2	115	
Shale, gray-----	5	120	
Sandstone, hard, gray-----	1	121	
Sandstone, moderately hard, gray-	16	137	
Shale, moderately hard, gray----	2	139	
Shale, moderately hard, brown----	17	156	
Coal-----	4.8	160.8	

Well 12/ 9W- 4Q2			
Type of record: Driller's log.		Altitude: About 467 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface and sand-----	100	100	
Gravel-----	3	103	
Pennsylvanian system:			
Middle series:			
Sandstone, hard, gray-----	2	105	
Shale, soft, dark-----	7	112	
Shale, gray, with hard bands----	4	116	
Slate, black-----	1	117	
Limestone-----	.4	117.4	
Slate, black-----	1.3	118.7	
Coal-----	1.6	120.3	
Fire clay-----	1.8	122.1	
Shale, moderately hard, gray----	7	129.1	
Sandstone, moderately hard, gray-	11	140.1	
Shale, sandy, moderately hard, gray-----	4	144.1	
Shale, brown-----	14.2	158.3	
Coal-----	5	163.3	

Well 12/ 9W- 4R1			
Type of record: Driller's log.		Altitude: About 495 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	2	2	
Gravel-----	8	10	
Sand-----	10	20	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 9W- 5G1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	6.1	34.8	
Fire clay-----	3	37.8	
Fire clay, limy-----	4.5	42.3	
Limestone-----	2.1	44.4	
Shale, limy-----	.3	44.7	
Limestone-----	.9	45.6	
Shale, sandy, limy-----	10.2	55.8	
Slate, sandy-----	53	108.8	
Slate, gray-----	27.5	136.3	
Siderite-----	.1	136.4	
Slate, black and gray-----	2.9	139.3	
Slate, black-----	2	141.3	
Slate, brown and black-----	3	144.3	
Coal-----	2	146.3	
Fire clay-----	1.5	147.8	
Shale, limy-----	3.4	151.2	
Shale, clayey, black and gray with limestone boulders-----	8.4	159.6	
Coal-----	1.3	160.9	
Sandstone-----	2.4	163.3	
Slate, slightly sandy, gray-----	1.5	164.8	
Slate, black-----	3.5	168.3	
Coal-----	4.5	172.8	
Fire clay-----	1	173.8	
Fire clay, limy-----	1.4	175.2	
Sandstone-----	.8	176	

Well 12/ 9W- 5H1

Type of record: Driller's log.

Altitude: About 496 feet.

Quaternary system:		
Recent and Pleistocene series:		
Surface-----	25	25
Pennsylvanian system:		
Middle series:		
Shale, yellow-----	4	29
Shale, gray-----	7	36
Limestone-----	1	37
Sandstone, soft, gray-----	28.4	65.4
Shale, gray-----	16	81.4
Shale, gray, with hard bands-----	13.3	94.7
Shale, black-----	1	95.7
Shale, gray-----	1	96.7
Slate, black-----	2	98.7
Shale, dark-----	2	100.7
Slate, black-----	3.5	104.2
Coal-----	1	105.2

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 9W- 5H1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	3	108.2	
Limestone-----	1	109.2	
Shale, gray-----	4	113.2	
Shale, limy, gray-----	6	119.2	
Slate, black-----	1	120.2	
Shale, gray-----	4	124.2	
Slate, black-----	4	128.2	
Sulfur-----	.2	128.4	
Coal-----	3.1	131.5	
Shale, gray-----	2	133.5	
Limestone-----	1.5	135	
Shale, limy-----	24	159	
Shale, gray, with hard bands-----	8	167	
Shale, dark, with hard bands-----	21.3	188.3	
Slate, black-----	1	189.3	
Coal-----	1	190.3	
Fire clay-----	3	193.3	
Shale, gray-----	2.5	195.8	
Shale, hard, gray-----	4	199.8	
Shale, gray-----	4	203.8	
Shale, limy-----	10.5	214.3	
Shale, sandy, gray-----	20	234.3	
Coal-----	4.7	239	

Well 12/ 9W- 5J1

Type of record: Driller's log.

Altitude: About 469 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	4	4	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	24	28	
Shale, soft, gray-----	6	34	
Shale, gray, with hard bands-----	12	46	W.B.
Limestone-----	.2	46.2	
Slate, black-----	2	48.2	
Shale, soft, dark-----	5	53.2	
Coal-----	2.2	55.4	
Shale, limy-----	1	56.4	
Shale, gray-----	8	64.4	
Shale, dark-----	3	67.4	
Shale, black-----	1	68.4	
Sandstone, dark-----	4	72.4	
Slate, black-----	3.5	75.9	
Coal-----	3.3	79.2	
Shale, gray-----	2	81.2	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 9W- 5J1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy, gray, with hard bands-----	1	82.2	
Shale, gray-----	3	85.2	
Shale, limy-----	4	89.2	
Sandstone, gray-----	20	109.2	
Shale-----	4	113.2	
Shale, dark, with hard bands-----	4	117.2	
Shale, dark-----	6	123.2	
Shale, gray, with hard bands-----	10	133.2	
Slate, black-----	1	134.2	
Coal-----	1	135.2	

Well 12/ 9W- 5P1

Type of record: Driller's log. Altitude: About 485 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Pennsylvanian system:			
Middle series:			
Sandstone-----	2	12	
Fire clay-----	3	15	
Shale, light-----	90	105	
Sandstone-----	5	110	
Coal-----	1	111	
Sandstone-----	3	114	
Shale, light-----	10	124	
Coal-----	1	125	
Shale-----	5	130	
Slate, black-----	8	138	
Coal-----	2	140	
Shale, sandy-----	5	145	
Sandstone-----	10	155	"Salt water"

Well 12/ 9W- 6H1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	12	12	
Hardpan-----	38	50	
Pennsylvanian system:			
Middle series:			
Shale, light-----	16	66	
Shale, brown-----	4	70	
Shale, light-----	20	90	
Shale, dark-----	4	94	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 9W- 6H1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, light-----	4	98	
Limestone-----	3	101	
Sandstone-----	14	115	
Shale, light-----	40	155	
Shale, gray-----	36	191	
Shale, dark-----	9	200	

Well 12/ 9W- 6M1

Type of record: Driller's log.		Altitude: About 600 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay, sandy-----	10	10	
Muck and gravel, blue-----	5	15	
Drift, sandy, gray-----	35	50	
Gravel, muddy-----	7	57	
Gravel, fine-----	4	61	W.B.
Gravel, muddy-----	16	77	
Gravel, medium-----	2	79	W.B.
Gravel-----	2	81	W.B.
Gravel, muddy-----	13	94	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	7	101	

Well 12/ 9W- 7D1

Type of record: Driller's log.		Altitude: About 575 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	23	23	
Hardpan-----	34	57	
Gravel-----	3	60	W.B.
Hardpan-----	8	68	
Pennsylvanian system:			
Middle series:			
Shale, light-----	6	74	

Well 12/ 9W- 8K1

Type of record: Driller's log.		Altitude: About 460 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Pennsylvanian system:			
Middle series:			
Shale, light-----	42	52	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 9W-13P1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system: Middle series: Shale-----	--	73	

Well 12/ 9W-15H2

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil, black-----	5	5	
Pebbles, ½-inch, to brown quartz sand-----	45	50	W.B. 30 to 85 ft
Gravel, medium to coarse-----	10	60	
Sand, coarse, brown, and gravel--	10	70	
Sand, coarse; gravel, and pebbles-----	15	85	

Well 12/ 9W-16P1

Type of record: Driller's log. Altitude: About 460 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	16	16	
Clay and sand-----	6	22	
Sand-----	15	37	W.B. 22 to 87 ft
Sand and gravel-----	15	52	
Gravel and some sand-----	15	67	
Gravel and sand-----	5	72	
Sand, blue-gray-----	15	87	
Pennsylvanian system:			
Middle series:			
Rock-----	2.8	89.8	

Well 12/ 9W-18B1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	10	10	
Hardpan-----	35	45	
Sand and gravel-----	4	49	W.B.
Hardpan-----	2	51	
Shale-----	11	62	Clay (?)
Sand and gravel-----	2	64	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 9W-19E1			
Type of record: Driller's log.		Altitude: About 550 feet.	
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Pennsylvanian system:			
Middle series:			
Sandstone, yellow-----	28	43	
Sandstone, white-----	8	51	
Shale, light-----	9	60	
Well 12/ 9W-21F4			
Type of record: Driller's log.		Altitude: About 495 feet.	
Cinders-----	4	4	
Quaternary system:			
Recent and Pleistocene series:			
Sand-----	14	18	
Sand and clay-----	12	30	
Sand and gravel-----	9	39	
Sand, fine-----	7	46	
Sand and some gravel-----	6	52	
Sand and gravel-----	41	93	
Gravel and sand-----	7	100	
Sand, gray, and gravel-----	2	102	
Sand, fine-----	6	108	
Sand and gravel-----	2	110	
Gravel, large-----	2	112	
Sand and gravel-----	8	120	
Pennsylvanian system:			
Middle series:			
Shale-----	3	123	
Well 12/ 9W-21J3			
Type of record: Driller's log.		Altitude: About 500 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Open pit-----	7	7	
Sand-----	13	20	
Gravel-----	13	35	
Rock, cemented-----	4	39	
Gravel, coarse-----	49	88	
Sand-----	10	98	
Gravel-----	11	109	
Sand-----	5	114	
			Cemented gravel (?)

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 9W-21M2

Type of record: driller's log. Altitude: About 460 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Fill-----	20.5	20.5	
Quaternary system:			
Recent and Pleistocene series:			
Silt-----	7.5	28	
Sand-----	5	33	
Gravel, small-----	1	34	

Well 12/ 9W-22A2

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

Quaternary system:			
Recent and Pleistocene series:			
Fill and clay-----	9	9	
Sand-----	11	20	
Gravel, medium-----	27	47	
Sand, muddy-----	8	55	
Sand, coarse-----	5	60	
Sand and gravel, fine-----	40	100	
Sand, coarse-----	15	115	
Clay-----	1	116	

Well 12/ 9W-22N3

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

Quaternary system:			
Recent and Pleistocene series:			
Sand-----	20	20	
Sand and gravel-----	47	67	W.B. 55 to 80 ft
Gravel, coarse-----	3	70	
Sand and gravel-----	10	80	

Well 12/ 9W-23L1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	38	38	
Hardpan-----	10	48	
Pennsylvanian system:			
Middle series:			
Shale, soft-----	15	63	
Limestone, hard-----	2	65	
Slate and coal-----	7	72	W.B.
Limestone, hard-----	5	77	
Limestone, broken-----	3	80	
Shale, dark-----	62	142	
Limestone-----	2	144	
Coal-----	6	150	
Shale, dark-----	4	154	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 9W-23L1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Limestone-----	2	156	
Shale, dark-----	7	163	
Sandstone-----	12	175	W.B.
Shale, dark-----	2	177	
Well 12/ 9W-25B1			
Type of record: Driller's log.		Altitude: About 515 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Sand-----	30	30	
Softpan, gray-----	16	46	
Sand and small gravel, dirty-----	2	48	W.B.
Softpan, dark-----	17	65	
Wash, dark-----	11	76	
Sand, dirty-----	1	77	
Pennsylvanian system:			
Middle series:			
Slate, black-----	--	77	
Well 12/ 9W-25B2			
Type of record: Driller's log.		Altitude: About 520 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Sand-----	14	14	
Hardpan-----	44	58	
Sand, soft-----	14	72	
Pennsylvanian system:			
Middle series:			
Coal-----	2	74	
Shale, dark-----	10	84	
Limestone, hard-----	8	92	
Sandstone-----	8	100	W.B.
Shale, gray-----	7	107	
Well 12/ 9W-25B3			
Type of record: Driller's log.		Altitude: About 515 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Sand and clay-----	16	16	
Hardpan-----	50	66	
Sand, dirty, gray-----	5	71	W.B.
Hardpan-----	2	73	
Pennsylvanian system:			
Middle series:			
Coal-----	2	75	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 9W-25L1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system			
Middle series:			
Shale, dark-----	8	38	W.B.
Limestone, gray-----	7	45	
Slate-----	10	55	
Coal-----	5	60	
Shale, light-----	5	65	

Well 12/ 9W-25M1

Type of record: Driller's log. Altitude: About 495 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Sand and gravel-----	20	30	
Pennsylvanian system:			
Middle series:			
Shale, light-----	2	32	

Well 12/ 9W-25Q1

Type of record: Driller's log. Altitude: About 535 feet.

Quaternary system:			
Recent and Pleistocene series:			
Record missing-----	54	54	W.B.
Hardpan and gravel-----	--	54	
Gravel and sand-----	2	56	
Sand-----	7	63	
Pennsylvanian system:			
Middle series:			
Shale-----	4	67	
Limestone, white-----	2	69	
Limestone, brown-----	5	74	
Shale, black, and coal-----	10	84	
Slate-----	6	90	

Well 12/ 9W-25R2

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

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	20	20	W.B.
Sand and clay, red-----	15	35	
Hardpan and gravel-----	25	60	
Hardpan, soft-----	9	69	
Sand and mud-----	18	87	
Pennsylvanian system:			
Middle series:			
Limestone, hard-----	2	89	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 9W-27D5

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Fill, surface, and brown sand----	10	10	
Gravel and sand-----	23	33	
Gravel, fine-----	3	36	
Gravel, coarse, and boulders----	16	52	
Sand, coarse-----	11	63	
Gravel, fine, and sand-----	5	68	
Sand, fine-----	20	88	
Sand and some gravel-----	5	93	
Sand, coarse-----	12	105	
Sand, coarse, and gravel-----	13	118	
Gravel and sand-----	6	124	

Well 12/ 9W-27F1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	8	8	
Sand and gravel-----	50	58	
Sand, fine-----	20	78	
Gravel, fine-----	21	91	

Well 12/ 9W-27R1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, coarse, sharp, clean-----	17	17	
Sand and gravel-----	4	21	
Gravel, fine-----	6	27	
Gravel and boulders-----	4	31	
Gravel, fine-----	8	39	W.B. 36 to 86.5 ft
Sand, coarse, and gravel-----	18	57	
Sand-----	1	58	
Sand and coarse gravel-----	5	63	
Sand and fine gravel-----	1	64	
Sand-----	1	65	
Sand, fine, sharp-----	4	69	
Sand, coarse, sharp-----	4.7	73.7	
Gravel, pea-sized, coarse, fine, sharp, brown-----	5.3	79	
Gravel, pea-sized, coarse, fine, sharp, gray-----	2.7	81.7	
Sand, coarse, sharp, and coarse gravel up to 1-inch diameter---	4.8	86.5	Trace of coal at 83.5 ft

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 9W-28L1

Type of record: Driller's log. Altitude: About 497 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Fill-----	5	5	
Quaternary system:			
Recent and Pleistocene series:			
Clay, gritty-----	6	11	
Sand, coarse, and gravel-----	47	58	
Gravel, medium-----	11	69	
Sand, coarse, and gravel-----	31	100	
Sand, coarse-----	25	125	
Gravel, medium-----	7	132	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	4	136	

Well 12/ 9W-32H2

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil, sandy-----	3	3	
Sand, clay, and boulders-----	15	18	
Sand, and gravel, medium to coarse-----	12	30	
Sand and gravel, medium-----	65	95	W.B. 47 to 129.5 ft
Sand, sharp-----	5	100	
Sand, sharp, and some coarse gravel-----	15	115	
Gravel, medium to coarse, very little sand-----	14.5	129.5	
Pennsylvanian system:			
Middle series:			
Limestone-----	.5	130	

Well 12/ 9W-33E3

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

Fill and cinders-----	8	8	
Quaternary system:			
Recent and Pleistocene series:			
Clay and gravel-----	6	14	
Sand and gravelly clay-----	23	37	
Sand and gravel-----	41	78	W.B.
Sand and some gravel-----	32	110	W.B.
Sand and gravel, coarse-----	11	121	W.B.
Pennsylvanian system:			
Middle series:			
Shale-----	--	121	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 9W-33G2

Type of record: Driller's log. Altitude: About 485 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Fill-----	5	5	
Quaternary system:			
Recent and Pleistocene series:			
Gravel and clay-----	5	10	
Gravel, coarse-----	10	20	
Sand-----	1	21	
Gravel, coarse-----	6	27	
Boulder, big, with coarse gravel--	5	32	
Sand and gravel-----	6	38	
Gravel, coarse, dark-----	3	41	W.B. 38 to 84 ft
Sand, yellow, and coarse gravel--	7	48	
Sand, fine, yellow-----	12	60	
Sand and gravel, light-----	5	65	
Sand and gravel-----	19	84	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	1	85	

Well 12/ 9W-33M2

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	3	3	
Gravel, coarse, some clay-----	17	20	
Sand and gravel, medium to coarse-----	30	50	
Sand, fine-----	14	64	W.B. 56 to 115 ft
Sand and gravel, medium-----	11	75	
Sand, fine-----	5	80	
Sand and gravel, medium-----	5	85	
Sand and gravel, medium to coarse-----	10	95	
Sand, fine-----	20	115	
Pennsylvanian system:			
Middle series:			
Limestone-----	.5	115.5	

Well 12/ 9W-34A1

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	5	5	
Clay, sandy-----	7	12	
Sand and gravel, coarse-----	15	27	W.B. 20 to 71 ft

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 9W-34A1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel, medium-----	23	50	Float (?)
Coal-----	.5	50.5	
Sand and gravel, medium-----	8.5	59	
Sand, fine-----	8	67	
Sand and gravel, coarse-----	4	71	

Well 12/ 9W-34Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand-----	45	45	W.B. 53 to 73 ft
Sand and gravel-----	18	63	
Gravel-----	10	73	
Muck-----	2	75	

Well 12/ 9W-34R1

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	3	3	W.B. 42 to 101.5 ft
Sand, muddy-----	4	7	
Sand, medium, clean-----	7	14	
Sand and gravel-----	12	26	
Sand, medium-----	3	29	
Sand and gravel, medium-----	34	63	
Sand and gravel, coarse-----	17	80	
Sand, coarse-----	9	89	
Sand and gravel, medium-----	3	92	
Sand and gravel, coarse-----	4	96	
Sand, medium-----	4.5	100.5	
Sand, gritty-----	1	101.5	
Pennsylvanian system:			
Middle series:			
Shale, gray-----		101.5	

Well 12/ 9W-35E1

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

Quaternary system:			
Recent and Pleistocene series:			
Pit-----	4	4	W.B. W.B.
Sand and gravel-----	26	30	
Gravel, hard, cemented-----	1	31	
Sand and gravel-----	32	63	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 9W-35H1

Type of record: Driller's log.		Altitude: About 500 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	Sandy silt (?)
Soil, sandy-----	10	30	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	38	68	
Sandstone-----	37	105	
Shale, light-----	5	110	
Shale, dark-----	35	145	
Shale, light-----	10	155	

Well 12/ 9W-35K1

Type of record: Driller's log.		Altitude: About 500 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Boulders-----	10	25	
Sand-----	6	31	
Gravel and sand-----	8	39	
Gravel-----	2	41	

Well 12/ 9W-35K2

Type of record: Driller's log.		Altitude: About 500 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	33	33	W.B. 30-33 ft
Pennsylvanian system:			
Middle series:			
Shale-----	16	49	
Sandstone-----	6	55	
Shale, light-gray-----	10	65	
Sandstone-----	5	70	
Shale, dark-----	2	72	
Limestone, black-----	5	77	
Shale, black-----	7	84	
Coal-----	5	89	
Shale-----	3	92	
Sandstone-----	--	92	

Well 12/ 9W-35Q1

Type of record: Driller's log.		Altitude: About 500 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	26	26	W.B.
Hardpan-----	46	72	
Gravel-----	--	72	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 9W-36N3

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand-----	10	10	
Clay-----	18	28	
Hardpan-----	35	63	
Sand, fine, muddy-----	7	70	
Gravel, sandy, with some clay----	8	78	
Sand, gravel, and shale-----	12	90	Sand, gravel, and clay (?)
Gumbo and gravel-----	2	92	W.B.
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	17	109	
Sandstone-----	8	117	W.B.
Sandstone, brown-----	2	119	W.B.
Shale-----	1	120	

Well 12/ 9W-36Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Hardpan-----	35	55	
Gravel and sand-----	4	59	
Hardpan-----	26	85	
Gravel-----	12	97	W.B.

Well 12/10W- 1H1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	19	19	
Hardpan, yellow-----	26	45	
Sand, fine, gray-----	2	47	W.B.
Hardpan, brown-----	18	65	
Sand, coarse, gray-----	2	67	W.B.
Pennsylvanian system:			
Middle series:			
Shale, light-gray-----	--	67	

Well 12/10W- 1L1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface, sandy, and yellow clay--	28	28	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/10W- 1L1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Hardpan, gray-----	34	62	W.B.
Sand and gravel, fine-----	10	72	
Drift, brown-----	10	82	
Pennsylvanian system:			
Middle series:			
Shale, light-----	--	82	

Well 12/10W- 9A1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	30	30	
Pennsylvanian system:			
Middle series:			
Shale, light-----	10	40	W.B. at 82 and 86 ft.
Shale, blue-----	21	61	
Shale, sandy-----	42	103	

Well 12/10W-11E1

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

Quaternary system:				
Recent and Pleistocene series:				
Soil and clay-----	6	6	"Gas" W.B.	
Mud and sand, yellow-----	11	17		
Mud, gray-----	17	34		
Mud-----	1	35		
Hardpan, gray-----	39	74		
Sand-----	1	75		
Hardpan, gray-----	7	82		
Mud-----	25	107		
Pennsylvanian system:				
Middle series:				
Shale, gray-----	4	111		

Well 12/10W-14E1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	12	12	
Hardpan-----	83	95	
Pennsylvanian system:			
Middle series:			
Shale, light-----	29	124	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/10W-14E1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	6	130	
Fire clay-----	3	133	
Shale, light-----	5	138	
Slate, gray-----	22	160	

Well 12/10W-14E2			
Type of record: Driller's log.		Altitude: About 570 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Gravel, dirty-----	3	13	
Gravel-----	1	14	
Hardpan-----	8	22	

Well 12/10W-15A1			
Type of record: Driller's log.		Altitude: About 570 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan-----	49	67	
Pennsylvanian system:			
Middle series:			
Shale, light-----	4	71	
Shale, dark-----	3	74	
Rock, hard, black-----	22	96	
Shale, gray-----	40	136	
Shale, dark-----	4	140	
Coal-----	2	142	
Shale, gray-----	21	163	
Sandstone-----	12	175	
Shale, gray-----	16	191	
Shale, dark-----	66	257	
Slate, black-----	4	261	
Coal-----	4	265	
Fire clay-----	2	267	
Rock, black-----	8	275	

Well 12/10W-15K1			
Type of record: Driller's log.		Altitude: About 515 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay and sand-----	14	14	
Hardpan-----	27	41	
Gravel-----	3	44	W.B.
Hardpan-----	67	111	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/10W-15K1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale-----	13	124	
Shale, sandy-----	10	134	
Shale, dark-----	22	156	
Coal-----	4	160	W.B.
Fire clay-----	10	170	
Limestone, hard-----	4	174	
Limestone, broken-----	3	177	

Well 12/10W-25F1

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

Quaternary system:

Recent and Pleistocene series:

Surface-----	5	5	
Sand-----	10	15	
Gravel-----	19	34	
Sand-----	1	35	

Well 12/10W-26G1

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

Quaternary system:

Recent and Pleistocene series:

Old hole-----	20	20	
Mud and gravel-----	10	30	
Mud, blue-----	31	61	

Pennsylvanian system:

Middle series:

Coal-----	3	64	W.B.
Fire clay-----	4	68	
Shale, soft-----	7	75	
Shale, dark-----	7	82	
Red rock-----	3	85	
Limestone, hard-----	3	88	
Shale, soft-----	5	93	
Shale, sandy-----	27	120	
Shale, dark-----	23	143	
Coal-----	3	146	
Fire clay-----	4	150	
Shale, sandy-----	65	215	
Slate, dark-----	45	260	

Well 12/10W-28K1

Type of record: Driller's log. Altitude: About 512 feet.

Quaternary system:

Recent and Pleistocene series:

Clay-----	34	34	
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Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/10W-28K1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand-----	3	37	
Shale-----	14	51	Clay (?)
Sand and gravel-----	15	66	
Shale, gray-----	20	86	Clay (?)
Sand and gravel-----	21	107	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	90	197	
Coal-----	2	199	
Shale, gray-----	20	219	
Coal-----	6	225	
Shale-----	4	229	
Limestone-----	3	232	
Shale, gray-----	57	289	
Limestone-----	3	292	
Shale, sandy-----	18	310	
Sandstone-----	35	345	T.D. 1,059 ft

Well 12/10W-28N1

Type of record: Driller's log.

Altitude: About 490 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface, silty-----	12	12	
Sand and gravel, fine-----	13	25	
Sand, sharp-----	15	40	

Well 12/10W-28Q1

Type of record: Driller's log.

Altitude: About 487 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand-----	63	63	
Pennsylvanian system:			
Middle series:			
Coal-----	2	65	
Shale, gray-----	8	73	
Limestone-----	2	75	
Shale, gray-----	105	180	
Coal-----	1	181	
Shale, gray-----	20	201	
Shale-----	64	265	
Shale, sandy-----	100	365	
Shale, dark-----	25	390	
Coal-----	3	393	T.D. 1,849 ft

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/10W-33B1

Type of record: Driller's log.

Altitude: About 490 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand-----	22	22	Clay (?)
Gravel-----	3	25	
Shale, gray-----	13	38	
Gravel and coal-----	1	39	
Sand and gravel-----	8	47	
Pennsylvanian system:			
Middle series:			
Shale, white-----	2	49	W.B.
Sandstone-----	16	65	
Shale, white-----	25	90	
Shale, dark-gray-----	9	99	
Limestone-----	2	101	
Shale-----	59	150	
Coal-----	4	154	
Limestone-----	5	159	
Sandstone-----	38	197	
Shale, gray-----	38	235	
Coal-----	6	241	
Unknown-----	36	277	
Sandstone-----	34	311	
Shale, dark-gray-----	31	342	
Shale, sandy, light-gray-----	32	374	
Coal-----	4	378	
Shale, sandy-----	37	415	

Well 12/10W-33C1

Type of record: Driller's log.

Altitude: About 492 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	26	26	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	33	59	
Coal-----	4	63	
Shale-----	14	77	
Limestone-----	5	82	
Shale-----	12	94	
Shale, gray-----	74	168	
Shale, sandy-----	4	172	
Coal-----	2	174	
Limestone-----	5	179	
Sandstone-----	9	188	
Shale, gray-----	37	225	
Shale, dark-----	21	246	
Shale, sandy-----	12	258	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/10W-33G1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Limestone-----	3	261	
Shale, sandy-----	29	290	
Sandstone-----	21	311	T.D. 1,835 ft

Well 12/10W-33P1

Type of record: Driller's log.

Altitude: About 560 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	15	15	
Hardpan, gray-----	3	18	
Sand, trace-----	--	18	W.B.
Hardpan-----	26	44	
Shale, sandy, hard, with pebbles-	26	70	Sandy clay (?)
Shale, gray, and small gravel----	8	78	Clay (?) and gravel
Sand, fine, gray; wood, and gumbo balls-----	3	81	W.B.
Sand and gravel, fine-----	4	85	W.B.
Sand, very fine-----	2	87	W.B.

Well 12/10W-34H1

Type of record: Driller's log.

Altitude: About 500 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	6	6	
Sand-----	12	18	
Sand, coarse-----	2	20	
Sand-----	19	39	W.B. 29 to 56 ft
Sand, fine-----	7	46	
Sand-----	10	56	
Pennsylvanian system:			
Middle series:			
Shale-----	1	57	

Well 12/10W-34K1

Type of record: Driller's log.

Altitude: About 530 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	22	22	
Hardpan-----	30	52	
Pennsylvanian system:			
Middle series:			
Shale-----	37	89	
Coal-----	1	90	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/10W-34K1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Fire clay-----	5	95	
Shale, gray-----	5	100	
Shale, light-----	3	103	
Limestone-----	8	111	
Fire clay, red and yellow-----	8	119	
Limestone-----	4	123	

Well 13/ 7W- 6E1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface and pan-----	48	48	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	20	68	
Shale, sandy, gray-----	60	128	
Shale, dark-gray-----	20	148	
Shale, sandy, gray-----	17	165	

Well 13/ 7W- 7J1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Wash, gray-----	17	27	
Sand, dirty-----	4	31	
Sand and gravel-----	17	48	"Bad water"
Pennsylvanian system:			
Middle series:			
Slate, black-----	2.5	50.5	
Coal-----	1.5	52	
Clay, blue-----	2	54	
Clay, light-----	3	57	
Slate, blue-----	14	71	
Shale, sandy, blue, with sand- stone bands-----	9	80	W.B.

Well 13/ 7W- 7K1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Hardpan-----	67	81	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 7W- 7K1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	.5	81.5	
Clay-----	.5	82	
Shale, sandy, gray-----	16	98	
Shale, dark-gray-----	6	104	
Coal-----	1	105	
Clay-----	4	109	
Shale, dark-gray-----	12	121	
Coal-----	1	122	
Clay-----	1	123	
Shale, sandy, dark-gray-----	7	130	
Well 13/ 7W-17H1			
Type of record: Driller's log.		Altitude: About 620 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	8	8	
Softpan-----	10	18	
Sand-----	3	21	
Softpan-----	7	28	
Pennsylvanian system:			
Middle series:			
Shale, light-----	9	37	
Coal-----	7	44	
Clay-----	6	50	
Shale, hard, dark-----	16	66	
Shale, soft, brown-----	4	70	
Slate, black-----	2	72	
Coal-----	2	74	
Shale, sandy, light-----	21	95	
Sandstone-----	6	101	
Shale, soft, light-brown-----	11	112	
Slate, dark-----	5	117	
Shale, sandy, gray-----	2.5	119.5	
Sandstone-----	1	120.5	
Lower series:			
Limestone, dark-----	9	129.5	
Shale, gray-----	1	130.5	
Sandstone, dark-----	5	135.5	
Slate, black-----	14.5	150	
Coal-----	1.5	151.5	
Shale, sandy, light-----	41.5	193	
Coal-----	2.5	195.5	
Clay-----	1	196.5	
Shale, dark-gray-----	12.5	209	
Rock, dark-brown-----	19	228	
Sandstone, light-----	53	281	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 7W-18P1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	19	19	
Hardpan, gray-----	1	20	
Sand and gravel-----	3	23	
Hardpan, gray-----	45	68	
Sand-----	2	70	W.B.
Sand and gravel-----	10	80	W.B.

Well 13/ 7W-19A2

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Hardpan-----	24	44	
Softpan, yellow-----	10	54	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	9	63	
Limestone-----	2	65	
Slate, black-----	5	70	
Coal, trace-----	--	70	W.B.
Fire clay-----	3	73	W.B.

Well 13/ 7W-19J1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	19	19	
Hardpan-----	27	46	
Sand-----	--	46	W.B.
Pennsylvanian system:			
Middle series:			
Slate, black-----	4	50	
Coal-----	1	51	
Slate, dark-blue-----	4	55	
Shale, light-----	6	61	
Fire clay-----	3	64	
Shale, light-----	5	69	
Coal-----	2	71	
Fire clay-----	5	76	
Rock, hard-----	1	77	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 7W-20N1

Type of record: Driller's log.

Altitude: About 610 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Hardpan, gray-----	15	35	
Softpan, yellow-----	10	45	
Hardpan, gray-----	7	52	
Pennsylvanian system:			
Middle series:			
Coal-----	3	55	
Fire clay-----	7	62	
Shale, sandy, light-----	1	63	
Slate, sandy, gray-----	10	73	
Slate, black-----	7	80	
Shale, blue-----	3	83	
Slate, black-----	6	89	W.B.
Clay-----	4	93	

Well 13/ 7W-29H1

Quaternary system:

Recent and Pleistocene series:			
Surface-----	4	4	
Wash-----	16	20	
Sand-----	2	22	
Wash-----	18	40	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	10	50	
Clay, light-----	15	65	
Slate, sandy, gray-----	27	92	
Lower (?) series:			
Coal-----	2	94	
Fire clay-----	2	96	
Slate, dark-----	5	101	
Coal-----	3.5	104.5	
Fire clay-----	4.5	109	
Slate, blue-----	19	128	
Coal-----	2	130	
Coal, smut, black-----	2	132	
Fire clay-----	10	142	
Shale, sandy, light-----	20	162	
Sandstone, gray-----	15	177	
Sandstone, white-----	49	226	W.B.

Well 13/ 7W-29R1

Type of record: Driller's log.

Altitude: About 610 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 7W-29R1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Hardpan, gray-----	40	60	
Softpan, dark-----	30	90	
Wash, dark-----	10	100	
Sand and gravel-----	1	101	W.B.

Well 13/ 7W-30K1

Type of record: Driller's log.

Altitude: About 605 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan, gray-----	27	42	
Pennsylvanian system:			
Middle series:			
Coal-----	3	45	
Fire clay-----	8	53	
Slate, blue-----	3	56	
Slate, black-----	9	65	
Slate, blue-----	3	68	
Clay-----	3	71	
Shale, light-----	10	81	
Shale, gray-----	5	86	
Shale, light-blue-----	6	92	
Shale, gray-----	9	101	
Shale, sandy, gray-----	4	105	
Coal, trace-----	--	105	
Fire clay (?)-----	3	108	
Shale (?), light-gray-----	6	114	
Shale, dark-blue-----	7	121	
Lower (?) series:			
Slate, black-----	3	124	
Shale, hard, gray-----	4	128	
Sandstone, pasty, light-----	4	132	
Shale, sandy, dark-----	3	135	
Shale, sandy, blue-----	10	145	
Sandstone, pasty, gray-----	5	150	
Shale, sandy, gray-----	31	181	
Coal, trace-----	--	181	
Fire clay, hard-----	3	184	
Shale, sandy, blue-----	16	200	

Well 13/ 7W-31A1

Type of record: Driller's log.

Altitude: About 595 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 7W-31A1--Continued			
	Thick- ness (feet)	Depth (feet)	
Quaternary system:			
Recent and Pleistocene series:			
Hardpan, gray-----	17	34	
Hardpan, yellow-----	12	46	
Hardpan, dark-----	26	72	
Softpan, yellow-----	8	80	
Pennsylvanian system:			
Middle series:			
Fire clay-----	5	85	
Shale, clayey-----	10	95	
Shale, blue-----	5	100	
Sandstone, gray-----	4	104	
Shale, blue-----	9	113	
Shale, sandy, gray-----	17	130	
Sandstone, shaly, gray-----	8	138	
Lower (?) series:			
Shale, light-----	3	141	
Shale, sandy, light-----	9	150	
Shale, dark-blue-----	3	153	

Well 13/ 7W-31B1

Type of record:	Driller's log.	Altitude:	About 600 feet.
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan, gray-----	18	33	
Gravel, trace-----	--	33	
Hardpan, dark-----	19.5	52.5	
Sand and gravel-----	.5	53	W.B.

Well 13/ 7W-31H1

Type of record:	Driller's log.	Altitude:	About 595 feet.
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan-----	46	61	
Wash, yellow-----	10	71	
Hardpan-----	2	73	
Sand-----	4	77	W.B.
Sand and gravel-----	5	82	W.B.

Well 13/ 7W-31R1

Type of record:	Driller's log.	Altitude:	About 610 feet.
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 7W-31R1--Continued

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Muck, sandy, yellow-----	17	32	
Hardpan, gray-----	33	65	
Softpan, gray-----	20	85	
Wash, gray-----	12	97	
Sand, fine, and little gravel----	2	99	W.B.
Wash and muck-----	4	103	
Softpan, dark-gray and gray-----	18	121	
Pennsylvanian system:			
Middle (?) series:			
Fire clay, white-----	1	122	

Well 13/ 7W-32B1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Softpan-----	9	25	
Hardpan, gray-----	20	45	
Softpan, dark-----	27	72	
Softpan, yellow-----	12	84	
Wash, dark-----	13	97	
Sand, dirty-----	5	102	
Sand, coarse, and small gravel---	2	104	W.B.; "Too much iron"
Sand and gravel-----	2	106	Do
Softpan, dark-----	14	120	
Sand and some gravel-----	2	122	
Softpan, yellow-----	8	130	
Pennsylvanian system:			
Lower series:			
Shale, light-----	3	133	
Slate (?), blue-----	3	136	
Slate (?), black-----	3	139	
Coal-----	1	140	
Fire clay (?)-----	3	143	
Shale, blue-----	3	146	
Shale, sandy, gray-----	20	166	
Coal, trace-----	--	166	
Fire clay, hard-----	2	168	
Shale, dark-blue-----	4	172	
Sandstone, pasty, gray-----	36	208	
Sandstone, white-----	20	228	
Sandstone, blue-----	5	233	
Sandstone, light-blue-----	82	315	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 7W-32M1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Sand, dirty, yellow-----	8	28	
Hardpan, gray-----	50	78	
Sand, dirty, gray-----	6	84	
Softpan-----	8	92	
Sand-----	4	96	W.B.
Sand and gravel-----	12	108	W.B.

Well 13/ 8W- 1N1

Type of record: Driller's log. Altitude: About 587 feet.

Quaternary system:			
Recent and Pleistocene series:			
Drift-----	102	102	W.B. at 68 and 93 ft
Pennsylvanian system:			
Middle series:			
Coal-----	4	106	
Shale-----	45	151	
Slate and shale-----	21	172	
Sandstone-----	3	175	
Sandstone, shaly-----	22	197	T.D. 1,622 ft

Well 13/ 8W- 1Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	21	21	
Sand-----	1	22	W.B.
Hardpan-----	9	31	

Well 13/ 8W- 3M1

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

Quaternary system:			
Recent and Pleistocene series:			
Loam, sandy-----	8	8	
Sand, yellow-----	17	25	W.B.
Gravel-----	65	90	W.B.

Well 13/ 8W- 5A1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand-----	33	33	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 8W- 5A1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Hardpan-----	40	73	
Gravel-----	1	74	
Hardpan-----	48	122	
Drift, brown-----	5	127	
Hardpan-----	18	145	
Sand and gravel-----	25	170	W.B.

Well 13/ 8W- 5B1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand-----	35	35	
Hardpan-----	73	108	
Drift-----	40	148	
Gravel, green-----	11	159	
Hardpan-----	2	161	
Gravel, clean-----	15	176	W.B.

Well 13/ 8W- 5M1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	27	27	
Hardpan, gray-----	57	84	
Clay, sandy, yellow-----	7	91	
Sand and gravel, yellow-----	1	92	W.B.

Well 13/ 8W- 7D1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, yellow-----	31	31	
Hardpan-----	106	137	
Sand and gravel-----	5	142	W.B.

Well 13/ 8W-13A1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface and hardpan-----	80	80	
Sand and gravel-----	20	100	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	20	120	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 8W-13A1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Clay, soft, light-----	40	160	
Lower series:			
Limestone-----	6	166	
Clay, soft-----	74	240	
Shale, sandy, hard, light-----	130	370	
Limestone, sandy-----	10	380	
Shale and sandstone-----	26	406	
Sandstone and limestone, gray----	22	428	
Sandstone, white-----	22	450	

Well 13/ 8W-13A2

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Softpan, yellow-----	13	28	
Sand and gravel-----	1	29	W.B.
Hardpan, gray-----	3	32	

Well 13/ 8W-13F1

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

Quaternary system:			
Recent and Pleistocene:			
Surface-----	10	10	
Muck and wash, gray-----	20	30	
Sand-----	4	34	W.B.
Sand and gravel-----	15	49	W.B.
Hardpan-----	2	51	
Pennsylvanian system:			
Middle series:			
Slate-----	2	53	

Well 13/ 8W-13G2

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Muck, gray-----	30	40	
Sand and gravel-----	3	43	"Bad water"
Wash, gray-----	5	48	Do
Sand and gravel-----	1	49	Do
Softpan, gray-----	9	58	
Sand and gravel-----	1	59	Do

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 8W-13G2--Continued

Material	Thick-ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy, light-----	4	63	
Shale, gray-----	5	68	
Slate, dark-----	8	76	
Clay-----	3	79	
Shale, sandy, gray-----	4	83	
Slate, black-----	4	87	W.B.
Clay-----	2	89	

Well 13/ 8W-13G3

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Sand, dirty-----	5	20	
Muck-----	10	30	
Sand and gravel-----	5	35	
Wash-----	10	45	
Hardpan, gray-----	7	52	
Pennsylvanian system:			
Middle series:			
Coal, trace-----	--	52	
Fire clay-----	3	55	
Rock-----	1	56	Limestone (?)
Slate, gray-----	4	60	
Slate, dark-blue-----	4	64	
Slate, black-----	5	69	
Coal-----	2	71	
Fire clay-----	3	74	
Slate, blue-----	6	80	
Slate, black-----	4	84	
Coal-----	1	85	
Fire clay, hard-----	3	88	
Slate, gray-----	17	105	

Well 13/ 8W-13H1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Wash and muck-----	15	30	
Sand and gravel-----	25	55	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	3	58	
Slate, dark-blue-----	9	67	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 8W-13H1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	2	69	W.B.
Clay, hard-----	4	73	
Shale, gray-----	2	75	
Well 13/ 8W-13H3			
Type of record: Driller's log.		Altitude: About 540 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Muck and sand-----	21	35	
Sand and gravel-----	20	55	"Bad water"
Pennsylvanian system:			
Middle series:			
Slate, dark-blue-----	8	63	
Coal, trace-----	--	63	
Shale, soft, light-gray-----	8	71	
Slate, black-----	4	75	
Coal, trace-----	--	75	"Bad water"
Shale, soft, light-gray-----	12	87	
Shale, gray-----	28	115	
Shale, sandy, gray-----	8	123	
Shale, gray-----	5	128	
Shale, sandy, blue-----	3	131	
Lower (?) series:			
Limestone-----	16	147	
Slate, black-----	4	151	
Coal-----	4	155	W.B.
Shale, sandy, blue-----	4	159	
Well 13/ 8W-13Q1			
Type of record: Driller's log.		Altitude: About 595 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Gravel-----	40	40	
Hardpan-----	35	75	
Sand-----	24	99	W.B.
Well 13/ 8W-13R2			
Type of record: Driller's log.		Altitude: About 595 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan, gray-----	25	43	
Sand and gravel-----	13	56	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 8W-14A1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Wash, gray-----	10	25	
Softpan, gray-----	6	31	
Hardpan, gray-----	38	69	
Sand and gravel-----	7	76	W.B.

Well 13/ 8W-14B1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan-----	27	37	
Gravel and hardpan-----	1	38	W.B.

Well 13/ 8W-14L1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan-----	32	50	
Sand-----	10	60	
Hardpan-----	20	80	
Sand-----	25	105	W.B.
Gravel-----	7	112	W.B.

Well 13/ 8W-14N1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan-----	50	60	
Gravel-----	3	63	
Hardpan-----	12	75	
Gravel-----	5	80	W.B.
Hardpan-----	1	81	

Well 13/ 8W-14Q1

Type of record: Driller's log. Altitude: About 535 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	21	21	
Hardpan-----	19	40	
Gravel, medium-----	5	45	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 8W-16N1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Hardpan-----	53	73	
Sand and gravel-----	2	75	W.B.

Well 13/ 8W-20L1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	105	105	
Pennsylvanian system:			
Middle series:			
Limestone and shale-----	24	129	
Shale-----	8	137	
Sandstone-----	13	150	W.B.
Shale-----	5	155	
Sandstone and coal-----	15	170	
Sandstone-----	35	205	W.B.
Sandstone and limestone-----	5	210	
Shale, sandy-----	10	220	
Lower (?) series:			
Shale and blue mud-----	24	244	
Limestone-----	3	247	
Shale and blue mud-----	29	276	
Coal-----	5	281	
Shale-----	29	310	
Sandstone-----	105	415	T.D. 1,636 ft

Well 13/ 8W-24A1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Pan-----	107	122	
Pennsylvanian system:			
Middle (?) series:			
Shale, light-gray-----	23	145	
Coal-----	1	146	
Clay-----	3	149	
Shale, sandy, gray-----	31	180	

Well 13/ 8W-24A2

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 8W-24A2--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Pan-----	50	68	W.B.
Sand-----	1	69	
Pan-----	1	70	

Well 13/ 8W-24B1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	W.B. W.B.
Hardpan-----	49	64	
Sand and gravel, dirty-----	14	78	
Hardpan-----	13	91	
Sand-----	8	99	
Sand and gravel-----	1	100	
Hardpan, gray-----	--	100	

Well 13/ 8W-24E1

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

Quaternary system:				
Recent and Pleistocene series:				
Open well-----	20	20		
Hardpan-----	52	72		
Pennsylvanian system:				
Middle series:				
Sandstone-----	11	83		
Shale, gray-----	3	86		
Coal and slate-----	7	93		
Shale, light-----	7	100		
Sandstone-----	4	104		
Shale, light-----	3	107		
Shale, dark-----	6	113		
Coal and slate-----	4	117		
Shale, light-----	11	128		
Coal and slate-----	8	136		
Shale, gray-----	6	142		
Shale, light-----	11	153		
Sandstone-----	6	159		
Lower (?) series:				
Shale, light-----	9	168		
Shale, dark-----	7	175		
Sandstone-----	33	208		
Shale, sandy, gray-----	4	212		

Table 3.--Selected well logs, Vigo County, Indiana--Continued

		Well 13/ 8W-25C1	
Type of record: Driller's log.		Altitude: About 590 feet.	
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Pan-----	22.5	42.5	
Pennsylvanian system:			
Middle series:			
Coal-----	1	43.5	
Clay-----	1	44.5	
Shale, gray-----	33.5	78	
Shale, dark-gray-----	4	82	
Coal-----	3	85	
Clay-----	3	88	
Shale, gray-----	17	105	
Clay-----	3	108	
Shale, sandy, gray-----	17	125	
Shale, dark-gray-----	6	131	
Coal-----	1	132	
Clay-----	1	133	
Shale, light-gray-----	9	142	
Shale, dark-gray-----	5	147	
Shale, light-gray-----	13	160	
Lower (?) series:			
Coal-----	1	161	
Clay-----	2	163	
Shale, soft, light-gray-----	9	172	
Sandstone-----	2	174	
Shale, light-----	18	192	
Sandstone-----	7	199	
Shale, dark-gray-----	1	200	
Shale, light-gray-----	30	230	
Shale, gray-----	12	242	
Sandstone-----	4	246	
Shale, dark-gray-----	2	248	
Shale, light-gray-----	4	252	
Sandstone-----	8	260	
Shale, sandy, gray-----	103	363	
Sandstone-----	19	382	

		Well 13/ 8W-25R1	
Type of record: Driller's log.		Altitude: About 590 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan-----	77	95	
Pennsylvanian system:			
Middle series:			
Shale, light-----	17	112	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 8W-25R1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, blue-----	10	122	
Sandstone-----	5	127	
Shale, blue-----	32	159	
Sandstone-----	19	178	
Lower (?) series:			
Shale, blue-----	5	183	
Shale, sandy-----	12	195	
Sandstone-----	5	200	
Shale, sandy, gray-----	12	212	
Sandstone-----	49	261	

Well 13/ 8W-26B1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Softpan, yellow-----	16	36	
Wash and sand, soft, yellow-----	4	40	W.B.
Hardpan, gray-----	11	51	

Well 13/ 8W-27E1

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	3	3	
Clay and hardpan-----	20	23	
Sand and gravel-----	3	26	
Hardpan, gravelly-----	37	60	
Sand and gravel-----	3	63	
Hardpan, gravelly-----	17	80	
Sand and gravel-----	10	90	W.B.

Well 13/ 8W-28H1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan-----	50	60	
Sand and gravel-----	2	62	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 8W-29F1			
Type of record: Driller's log.		Altitude: About 595 feet.	
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand-----	20	20	
Mud, soft-----	16	36	
Quicksand-----	6	42	
Clay, brown, with gravel-----	10	52	
Shale, sandy, light-----	13	65	Sandy clay (?)
Shale, sandy-----	47	112	Do
Sand, coarse-----	--	112	W.B.
Well 13/ 8W-29L1			
Type of record: Driller's log.		Altitude: About 575 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Open pit-----	12	12	
Drift, sandy-----	38	50	
Hardpan-----	25	75	
Sand and gravel-----	6	81	W.B.
Well 13/ 8W-34B1			
Type of record: Driller's log.		Altitude: About 590 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	20	20	
Sand and gravel mixed in clay---	10	30	
Sandstone-----	10	40	Cemented sand (?)
Sand and gravel-----	2	42	W.B.
Shale, sandy-----	3	45	Sandy clay (?)
Sandstone-----	11	56	"Dry"; cemented sand (?)
Sand, gravel, and coal-----	5	61	
Sand and gravel-----	5	66	W.B.
Pennsylvanian system:			
Middle series:			
Shale, white-----	14	80	
Well 13/ 8W-34F1			
Type of record: Driller's log.		Altitude: About 580 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface, sandy-----	35	35	
Hardpan-----	20	55	
Sand-----	18	73	W.B.
Gravel and sand-----	3	76	W.B.
Pennsylvanian system:			
Middle series:			
Coal-----	5	81	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W- 1N1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	5	5	
Sand-----	8	13	
Gravel-----	41	54	
Sand-----	15	69	
Gravel, medium-----	17	86	

Well 13/ 9W- 4A1

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

Quaternary system:			
Recent and Pleistocene series:			
Soil; sand and gravel-----	4	4	
Pennsylvanian system:			
Middle series:			
Shale-----	50	54	
Sandstone-----	1.7	55.7	
Coal-----	3.5	59.2	
Fire clay and sandy shale-----	12	71.2	
Black rock and gray shale-----	5	76.2	
Coal-----	4.7	80.9	
Iron band and black shale-----	2.2	83.1	
Coal-----	3.9	87	
Fire clay-----	3	90	
Limestone-----	9.5	99.5	
Shale, gray-----	10.5	110	
Shale, sandy, and sandstone-----	34	144	
Iron band and gray shale-----	5.3	149.3	
Coal-----	1.6	150.9	
Shale and iron band-----	10	160.9	
Shale, sandy, and iron band-----	12.3	173.2	
Sandstone-----	14	187.2	
Shale, gray-----	2	189.2	
Coal-----	6.5	195.7	

Well 13/ 9W- 4D1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	12	12	
Hardpan-----	26(?)	38(?)	
Sand and gravel-----	8(?)	46(?)	W.B.
Hardpan-----	12(?)	58	
Undifferentiated:			
Record missing-----	117	175	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W- 4E1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	W.B.
Sand and gravel-----	62	77	
Sand, fine, brown-----	13	90	
Pennsylvanian system:			
Middle series:			
Clay, alternating hard and soft, blue-----	55	145	
Slate-----	5	150	
Coal-----	--	150	

Well 13/ 9W- 4L1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, fine-----	10	10	
Sand, coarse-----	38	48	
Sand, fine-----	2	50	
Gravel-----	10	60	

Well 13/ 9W- 6R1

Type of record: Driller's log. Altitude: About 588 feet.

Quaternary system:			
Recent and Pleistocene series:			
Till, brown and silty, and sandy clay-----	30	30	Auger refusal at 45 ft
Till, compact, gray-----	15	45	

Well 13/ 9W- 7C1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, red-----	6	6	W.B.
Sand, clayey, red-----	4	10	
Sand, soupy, gray-----	8	18	
Till, clayey, sandy, tough, gray-	2	20	
Soupy materials-----	8	28	
Till, clayey, tough, gray-----	4	32	
Soft zone-----	1	33	
Clay, green and olive-green, and sandy clay, no pebbles, like top of bedrock-----	1	34	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W- 7C2

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	3	3	
Hardpan-----	7	10	
Sand and gravel-----	33	43	
Pennsylvanian system:			
Middle series:			
Sandstone-----	15	58	

Well 13/ 9W- 7J1

Type of record: Driller's log. Altitude: About 613 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	3	3	
Sand-----	9	12	
Hardpan-----	29	41	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	3	44	

Well 13/ 9W- 7N1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	12	12	
Hardpan and gravel-----	28	40	
Sand-----	4	44	W.B.
Hardpan and gravel-----	24	68	

Well 13/ 9W-10N1

Type of record: Driller's log. Altitude: About 460 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay and silt-----	8	8	
Clay and sand, silty-----	17	25	
Sand, silty-----	15	40	
Sand and gravel, dirty-----	8	48	

Well 13/ 9W-14K1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand-----	55	55	
Gravel-----	3	58	
Sand and gravel-----	24.5	82.5	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W-16G1

Type of record: Driller's log. Altitude: About 470 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	30	30	
Sand-----	15	45	
Drift-----	4	49	
Drift, shaly-----	5	54	

Well 13/ 9W-16P2

Type of record: Driller's log. Altitude: About 460 feet.

Quaternary system:			
Recent and Pleistocene series:			
Silt, brown, and soupy clay-----	13	13	
Clay, silty, brown-----	8	21	
Clay, gray, containing small shells-----	2	23	
Pennsylvanian system:			
Middle series:			
Shale-----	--	23	

Well 13/ 9W-17C1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface, sandy-----	1	1	
Hardpan-----	12.5	13.5	
Sand-----	15.5	29	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	41.3	70.3	

Well 13/ 9W-17E1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, brown-----	18	18	
Sand, gray-----	7	25	W.B.
Till, hard, gray-----	2	27	
Clay, sandy, soft, soupy-----	18	45	
Till, gray-----	13	58	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W-17M1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	3	3	
Sand and gravel-----	14	17	
Hardpan-----	27	44	
Sand and gravel-----	4	48	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	9	57	

Well 13/ 9W-17N1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	27	27	
Hardpan-----	13	40	
Sand-----	6	46	
Drift-----	2	48	
Pennsylvanian system:			
Middle series:			
Sandstone-----	8	56	

Well 13/ 9W-17P1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	4	4	
Sand-----	2	6	
Hardpan-----	29	35	
Sand and gravel-----	7	42	
Sand and shale-----	10	52	

Well 13/ 9W-18D1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Hardpan and sand-----	53	73	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	48	121	
Coal-----	6	127	
Shale, light-----	11	138	
Limestone-----	4	142	
Shale, light-----	18	160	
Shale, blue-----	130	290	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W-18G1

Type of record: Driller's log.

Altitude: About 620 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	10	10	
Sand and clay-----	8	18	
Shale, sandy, gray-----	7	25	Sandy clay (?)
Mud, blue-----	5	30	
Mud, green-----	10	40	
Shale, brown-----	7	47	Clay (?)
Sand, fine-----	4	51	W.B.
Shale, sandy-----	10	61	Sandy clay (?)
Clay and gravel-----	20	81	
Pennsylvanian system:			
Middle series:			
Shale, light-gray-----	27	108	
Shale, dark-----	24	132	
Coal-----	1	133	
Shale-----	2	135	

Well 13/ 9W-18G2

Type of record: Driller's log.

Altitude: About 613 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, sandy-----	10	10	
Hardpan-----	4	14	
Sand-----	4	18	
Clay, sandy-----	8	26	
Hardpan-----	28	54	
Gravel-----	3	57	
Hardpan-----	22	79	
Pennsylvanian system:			
Middle series:			
Shale, soft, blue-----	17	96	

Well 13/ 9W-18K2

Type of record: Driller's log.

Altitude: About 600 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	8	8	
Clay, sandy, yellow, and sand----	9	17	W.B.
Sand, gray-----	8	25	W.B.
Till, hard, gray-----	4	29	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W-18R1			
Type of record: Driller's log.		Altitude: About 590 feet.	
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	4	4	
Sand and gravel-----	35	39	
Drift, sandy-----	4	43	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	17	60	
Well 13/ 9W-18R2			
Type of record: Driller's log.		Altitude: About 580 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay, black-----	2	2	
Clay, red-----	5	7	
Sand-----	18	25	W.B.
Till, sandy, hard, blue-----	2	27	
Sand-----	12	39	W.B.
Gravel or bedrock, and chat-----	3	42	W.B.
Well 13/ 9W-19A1			
Type of record: Driller's log.		Altitude: About 575 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	4	4	
Sand-----	1	5	
Hardpan-----	25	30	
Pennsylvanian system:			
Middle series:			
Shale, limy-----	1	31	
Well 13/ 9W-20B1			
Type of record: Driller's log.		Altitude: About 580 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	7	7	
Sand-----	13	20	W.B.
Hardpan and gravel-----	20	40	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	15	55	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W-20K1

Type of record: Driller's log.

Altitude: About 530 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, red-----	10	10	
Hardpan and boulders-----	18	28	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	11	39	
Limestone, hard-----	2	41	
Shale, gray-----	14	55	
Shale, dark-----	15	70	
Coal-----	4	74	
Fire clay-----	7	81	
Limestone, hard-----	4	85	
Shale, sandy-----	65	150	
Shale, dark-----	35	185	
Slate, dark-----	10	195	
Shale, light-----	9	204	
Slate, dark-----	11	215	
Limestone, hard-----	2	217	
Coal-----	5	222	
Limestone, hard-----	6	228	
Shale, light-----	5	233	
Limestone, sandy-----	7	240	
Shale, dark-----	43	283	
Coal-----	3	286	
Shale, dark-----	4	290	
Limestone, hard-----	3	293	
Shale, gray-----	22	315	
Slate, dark-----	14	329	
Coal-----	5	334	
Shale, gray-----	8	342	
Slate, dark-----	18	360	
Shale, gray-----	10	370	
Slate, dark-----	15	385	
Mine opening-----	--	385	

Well 13/ 9W-20M1

Type of record: Driller's log.

Altitude: About 588 feet.

Quaternary system:		
Recent and Pleistocene series:		
Clay, yellow-----	19	19
Clay-----	1	20
Clay and gravel-----	5	25
Pennsylvanian system:		
Middle series:		
Shale, sandy, blue-----	5	30
Shale, gray-----	15	45
Sandstone-----	2	47

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W-22P1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	1.3	103.8	
Fire clay-----	5.2	109	
Sandstone-----	3	112	
Shale, sandy, light-----	13	125	
Shale, sandy, blue-----	32	157	
Coal-----	5.8	162.8	
Shale, sandy-----	12.2	175	
Slate, black-----	6	181	
Coal-----	1	182	
Fire clay-----	3	185	
Sandstone-----	9	194	
Slate, sandy-----	3.3	197.3	
Coal-----	1.6	198.9	
Slate, brown-----	11.1	210	
Sandstone-----	5	215	
Slate, brown-----	7	222	
Slate, black-----	2.3	224.3	
Coal-----	1.2	225.5	
Fire clay-----	.5	226	

Well 13/ 9W-24M1

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	2	2	
Gravel, large, and sandy clay----	2	4	
Sand and gravel-----	59	63	

Well 13/ 9W-25L1

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	3	3	
Sand-----	22	25	
Sand and gravel-----	17	42	W.B.
Sand-----	10	52	W.B.
Gravel-----	7	59	W.B.

Well 13/ 9W-25Q1

Type of record: Driller's log. Altitude: About 493 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	54	54	
Coal-----	1	55	
Sand and gravel-----	36	91	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W-2501--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	13	104	
Limestone, shaly, black-----	3	107	
Coal-----	4	111	
Shale-----	8	119	
Sandstone, gray-----	7	126	
Shale, gray-----	9	135	
Shale, dark-----	6	141	
Slate, shaly-----	12	153	
Shale, gray-----	8	161	
Sandstone-----	11	172	
Shale, brown-----	6	178	
Coal-----	2	180	
Shale, gray-----	35	215	T.D. 570 ft

Well 13/ 9W-27B1			
Type of record: Driller's log.		Altitude: About 506 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Sand-----	55	55	
Sand and gravel-----	97	152	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	3	155	
Slate, black-----	5	160	
Coal-----	1.5	161.5	
Shale, clayey-----	12.3	173.8	
Coal-----	2.8	176.6	
Slate, sandy, brown-----	9.4	186	
Shale, blue-----	13	199	
Slate, black-----	6	205	
Coal-----	1	206	
Fire clay-----	3	209	
Sandstone-----	3	212	
Shale, brown-----	8	220	
Sandstone-----	3	223	
Slate, brown-----	7.5	230.5	
Coal-----	6.2	236.7	
Slate-----	1	237.7	
Fire clay-----	.8	238.5	

Well 13/ 9W-27F1			
Type of record: Driller's log.		Altitude: About 467 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	102	102	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W-27K1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	1	224.2	
Fire clay-----	1	225.2	
Sandstone-----	17	242.2	
Slate, brown-----	6.6	248.8	
Coal-----	2.7	251.5	
Slate, brown-----	10	261.5	
Coal-----	3.1	264.6	
Coal and slate-----	1.6	266.2	
Fire clay-----	5	271.2	
Slate, black-----	.5	271.7	
Coal-----	1.5	273.2	
Fire clay-----	5.5	278.7	
Sandstone-----	12	290.7	
Shale, light-----	3.5	294.2	
Limestone-----	3.5	297.7	
Slate, black-----	1.4	299.1	
Coal-----	2.5	301.6	
Fire clay-----	3.1	304.7	
Slate, brown-----	12.8	317.5	
Coal-----	2.6	320.1	
Slate, light-blue-----	1.6	321.7	
Coal-----	.5	322.2	
Fire clay-----	.5	322.7	
Coal-----	3.8	326.5	
Fire clay-----	2.2	328.7	
Shale, light-----	10	338.7	
Slate, black-----	1	339.7	
Shale, clayey-----	4	343.7	
Sandstone-----	19	362.7	
Shale, gray-----	21	383.7	
Sandstone-----	6	389.7	
Shale, light-----	5	394.7	
Shale, dark-----	12	406.7	
Lower (?) series:			
Coal-----	2.5	409.2	
Fire clay-----	2.5	411.7	
Limestone-----	2	413.7	
Slate, black-----	3	416.7	
Shale, dark-blue-----	53	469.7	

Well 13/ 9W-27L1

Type of record: Driller's log.

Altitude: About 461 feet.

Quaternary system:

Recent and Pleistocene series:

Soil, sandy-----	5	5	
Sand, red-----	80	85	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W-27R1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel, clean-----	5	80	
Sand, fine red-----	5	85	
Gravel, medium, and sand, clean--	10	95	
Sand and gravel, clean-----	35	130	
Gravel, coarse, or small boulders-----	12	142	
Pennsylvanian system:			
Middle series:			
Clay, blue-----	1	143	

Well 13/ 9W-28A1

Type of record: Driller's log.

Altitude: About 465 feet.

Quaternary system:			
Recent and Pleistocene series:			
Soil and drift-----	13	13	
Clay, sandy, blue-----	10	23	
Sand and gravel-----	75.6	98.6	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	18.1	116.7	
Shale, sandy, gray-----	6.5	123.2	
Slate, black-----	1.7	124.9	
Coal-----	1.5	126.4	
Slate, gray-----	4	130.4	
Fire clay-----	3.5	133.9	
Limestone-----	5	138.9	
Slate, black-----	1	139.9	
Slate, gray-----	4.1	144	
Slate, soft, gray-----	27	171	
Sandstone-----	2	173	
Slate, gray-----	2.3	175.3	
Shale, sandy-----	4.7	180	
Coal-----	5.3	185.3	

Well 13/ 9W-28G1

Type of record: Driller's log.

Altitude: About 466 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Sand and gravel-----	105	125	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	2	127	
Slate, black-----	1.5	128.5	
Coal-----	2	130.5	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W-28G1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Fire clay-----	5.5	136	
Sandstone-----	5	141	
Slate, sandy, light-----	24	165	
Slate, sandy, brown-----	13	178	
Coal-----	5.6	183.6	
Fire clay-----	1.9	185.5	
Slate, black, and coal-----	1.5	187	
Fire clay-----	2	189	
Sandstone-----	5	194	
Shale, sandy, blue-----	11	205	
Slate, black-----	6	211	
Coal-----	1.5	212.5	
Fire clay-----	3.5	216	
Sandstone, white-----	6	222	
Sandstone, gray-----	14	236	
Slate, sandy-----	5.3	241.3	
Coal-----	7	248.3	
Slate, hard, dark-----	.5	248.8	
Fire clay-----	.7	249.5	

Well 13/ 9W-29E1

Type of record: Driller's log.		Altitude: About 610 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	19	19	
Hardpan, soft, gray-----	29	48	
Hardpan, solid, gray-----	5	53	
Sand, gray-----	1	54	W.B.
Hardpan, solid, gray-----	10	64	

Well 13/ 9W-29K1

Type of record: Driller's log.		Altitude: About 574 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface, sandy, and hardpan-----	68.9	68.9	
Pennsylvanian system:			
Middle series:			
Sandstone-----	6.1	75	
Sandstone with shale streak-----	7	82	
Shale, sandy-----	38.5	120.5	
Slate, gray, with siderite bands-----	37.3	157.8	
Slate, black-----	.2	158	
Siderite-----	.1	158.1	
Slate, black-----	.4	158.5	
Slate, gray-----	1	159.5	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W-29K1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Siderite-----	.4	159.9	
Slate, gray-----	.3	160.2	
Slate, black-----	6.6	166.8	
Coal-----	2.2	169	
Fire clay-----	2.4	171.4	
Limestone-----	1.3	172.7	
Shale, limy-----	1.6	174.3	
Clay, gray and black, with lime- stone boulders-----	7.5	181.8	Clay with lime- stone nodules (?)
Slate, black-----	1.6	183.4	
Slate, sandy, black-----	.9	184.3	
Slate, gray-----	1.2	185.5	
Slate, black-----	1.2	186.7	
Limestone, black-----	1.1	187.8	
Limestone, gray-----	.8	188.6	
Slate, black-----	.2	188.8	
Coal-----	4.5	193.3	
Fire clay-----	2.6	195.9	
Sandstone-----	2.4	198.3	
Shale, sandy-----	26.9	225.2	
Slate, gray-----	2.1	227.3	
Slate, gray and black-----	1.2	228.5	
Slate, black, with siderite bands-----	1.3	229.8	
Siderite-----	.2	230	
Slate, fossilized, black-----	.6	230.6	
Slate, black and gray, with siderite bands-----	18	248.6	
Limestone, black-----	1.5	250.1	
Slate, black-----	.4	250.5	
Coal-----	1.8	252.3	
Slate, black-----	.2	252.5	
Fire clay-----	2.2	254.7	
Fire clay, limy-----	2.5	257.2	
Limestone-----	4.6	261.8	
Sandstone-----	.9	262.7	
Sandstone with shale streaks-----	2.1	264.8	
Sandstone, limy-----	1.4	266.2	
Slate, sandy-----	30.1	296.3	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W-30H1		Altitude: About 605 feet.	
Type of record: Driller's log.			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface; sand, gravel and hard- pan-----	78	78	
Pennsylvanian system:			
Middle series:			
Shale, clayey, brown-----	20.7	98.7	
Shale, gray-----	8.5	107.2	
Coal-----	4.5	111.7	
Fire clay-----	6.6	118.3	
Limestone-----	.9	119.2	
Shale, limy-----	2.8	122	
Shale, sandy-----	13.5	135.5	
Sandstone-----	3.5	139	
Shale, sandy-----	59.8	198.8	
Slate, gray, with siderite bands-	19.4	218.2	
Slate, black-----	.3	218.5	
Siderite-----	.2	218.7	
Slate, black-----	.3	219	
Slate, gray-----	2.1	221.1	
Slate, black, with siderite parting-----	4.8	225.9	
Slate, black-----	.9	226.8	
Coal-----	2	228.8	
Fire clay-----	2	230.8	
Shale, limy-----	4.2	235	
Shale, clayey, gray and black----	4.3	239.3	
Slate, gray and black-----	3.3	242.6	
Limestone-----	.3	242.9	
Shale, soft, black-----	.3	243.2	
Slate, black-----	.6	243.8	
Coal-----	.4	244.2	
Sandstone and shale-----	2.5	246.7	
Slate, gray-----	.8	247.5	
Sulfur-----	.1	247.6	
Slate, fossilized, black-----	.2	247.8	
Slate, black-----	2.4	250.2	
Slate, black, with sand streaks--	.8	251	
Coal, with sulfur streak-----	1.7	252.7	
Sulfur-----	.1	252.8	
Coal-----	.2	253	
Sulfur-----	.1	253.1	
Coal, with sulfur streaks-----	2.4	255.5	
Fire clay-----	1.5	257	
Fire clay, limy-----	1.1	258.1	
Limestone-----	1.7	259.8	
Shale, limy-----	2.8	262.6	
Shale, sandy-----	11.4	274	
Limestone-----	1.6	275.6	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W-30H1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	10	285.6	
Slate, gray-----	4.7	290.3	
Slate, black, with siderite bands	21.7	312	
Limestone, black-----	1	313	
Slate, black-----	.8	313.8	
Coal-----	1.6	315.4	
Fire clay-----	3.2	318.6	
Shale, sandy, limy-----	1.2	319.8	
Sandstone, limy-----	8.5	328.3	
Shale, sandy, with limestone spots-----	28	356.3	
Coal-----	2	358.3	
Band-----	.1	358.4	
Coal-----	.7	359.1	
Band-----	1.8	360.9	
Coal-----	2.1	363	
Fire clay, hard-----	.3	363.3	
Shale, sandy, hard-----	3.5	366.8	

Well 13/ 9W-31A1			
Type of record: Driller's log.		Altitude: About 597 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Soil, sand and gravel-----	37	37	
Hardpan-----	52	89	
Pennsylvanian system:			
Middle series:			
Shale-----	3.5	92.5	
Coal-----	4.1	96.6	
Fire clay-----	6	102.6	
Limestone-----	2.2	104.8	
Shale, limy-----	1.6	106.4	
Sandstone-----	18.3	124.7	
Shale, sandy-----	50.3	175	
Slate, gray, with siderite bands-	24.1	199.1	
Slate, black-----	.2	199.3	
Siderite-----	.2	199.5	
Slate, gray and black, with siderite bands-----	2.6	202.1	
Slate, black, with siderite parting-----	3.6	205.7	
Slate, black-----	1.9	207.6	
Coal-----	1.9	209.5	
Fire clay-----	2.7	212.2	
Fire clay, limy-----	3.6	215.8	
Shale, black and gray, with lime- stone boulders-----	6.1	221.9	Shale with lime- stone nodules (?)

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W-31A1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Limestone, black-----	.7	222.6	
Shale, clayey, black-----	.6	223.2	
Slate, black-----	.9	224.1	
Sandstone-----	2.7	226.8	
Slate, gray-----	.9	227.7	
Slate, fossilized-----	1.5	229.2	
Slate, black-----	1.2	230.4	
Limestone, black-----	.9	231.3	
Coal-----	4.4	235.7	
Fire clay-----	.9	236.6	
Sandstone and shale-----	4.9	241.5	
Sandstone-----	17.9	259.4	
Shale, sandy-----	7	266.4	
Slate, gray-----	24.2	290.6	
Chip slate, black-----	1.7	292.3	
Coal-----	1.5	293.8	
Fire clay, brown-----	1.9	295.7	
Shale, sandy, limy-----	5.3	301	
Sandstone, limy-----	3.2	304.2	
Shale, sandy, with some sandstone	22.3	326.5	
Shale, sandy-----	5.3	331.8	
Coal-----	2.5	334.3	
Shale, sandy, and sandstone with coal partings-----	2	336.3	
Coal-----	1.8	338.1	
Fire clay-----	3.5	341.6	
Shale, sandy-----	.9	342.5	

Well 13/ 9W-31C1

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

Quaternary system:			
Recent and Pleistocene series:			
Open well-----	23	23	
Hardpan-----	85	108	
Pennsylvanian system:			
Middle series:			
Shale, light-----	10	118	
Coal-----	5	123	
Shale, light-----	2	125	

Well 13/ 9W-31R1

Type of record: Driller's log. Altitude: About 607 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface; clay, and sand-----	45	45	
Hardpan-----	45	90	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W-31R1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, very soft-----	12.9	102.9	
Shale, clayey, red-----	1.8	104.7	
Shale, clayey, green and black---	4	108.7	
Limestone-----	.3	109	
Shale, gray-----	3.3	112.3	
Siderite-----	.1	112.4	
Shale, gray-----	5.8	118.2	
Coal-----	5.6	123.8	
Fire clay-----	8.5	132.3	
Limestone-----	1	133.3	
Shale, limy-----	3.1	136.4	
Sandstone-----	5.5	141.9	
Shale, sandy-----	53.8	195.7	
Slate, gray, with siderite bands-	28.4	224.1	
Slate, black-----	.8	224.9	
Slate, gray-----	2.3	227.2	
Slate, black-----	4.9	232.1	
Coal-----	2.1	234.2	
Fire clay-----	2.6	236.8	
Shale, limy-----	2.1	238.9	
Limestone and black slate-----	4.9	243.8	
Slate, black-----	3.9	247.7	
Coal-----	1.2	248.9	
Sandstone with shale streaks-----	.9	249.8	
Slate, gray-----	1.1	250.9	
Slate, fossilized, black-----	.9	251.8	
Slate, black-----	2.1	253.9	
Slate, sandy, hard, black-----	1	254.9	
Coal-----	4.6	259.5	
Fire clay-----	2.7	262.2	
Fire clay, sandy-----	.4	262.6	
Sandstone with shale streaks-----	1.2	263.8	
Shale with sandstone streaks-----	1.6	265.4	
Sandstone with shale streaks-----	18.4	283.8	
Sandstone, dark, with shale streak-----	1.5	285.3	
Shale with sandstone streaks-----	4.8	290.1	
Shale, slightly sandy-----	5	295.1	
Slate, gray-----	1.3	296.4	
Slate, black-----	1.5	297.9	
Siderite-----	.2	298.1	
Slate, fossilized, black-----	.2	298.3	
Slate, gray, with siderite bands-	13	311.3	
Slate, gray and black, with siderite-----	6.5	317.8	
Slate, black-----	1.8	319.6	
Sulfur-----	.1	319.7	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W-31R1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	1.6	321.3	
Fire clay-----	6.2	327.5	
Limestone, sandy-----	4.3	331.8	
Shale, limy-----	2	333.8	
Shale, sandy-----	.8	334.6	
Slate, gray-----	4.3	338.9	
Slate, gray and black-----	3.9	342.8	
Shale, sandy-----	7.3	350.1	
Sandstone-----	3.4	353.5	
Shale, sandy-----	6	359.5	
Coal-----	3.3	362.8	
Shale-----	.3	363.1	
Sandstone-----	.6	363.7	
Shale-----	.7	364.4	
Coal-----	1.7	366.1	
Shale with sandstone streaks-----	4.1	370.2	

Well 13/ 9W-32H1

Type of record: Driller's log.

Altitude: About 586 feet.

Quaternary system:		
Recent and Pleistocene series:		
Surface; sand, clay, and hardpan-	82	82
Pennsylvanian system:		
Middle series:		
Shale, sandy-----	63	145
Shale, gray-----	26	171
Slate, black-----	5.1	176.1
Siderite-----	.2	176.3
Coal-----	6.2	182.5
Fire clay-----	3.3	185.8
Shale, clayey-----	.7	186.5
Limestone-----	.8	187.3
Shale, clayey, and limestone-----	.8	188.1
Shale, clayey, black-----	.9	189
Limestone-----	.2	189.2
Shale, clayey, black-----	.9	190.1
Limestone-----	.7	190.8
Shale, clayey, black-----	1.9	192.7
Slate, black, and limestone-----	3.7	196.4
Coal-----	.7	197.1
Slate, black-----	.1	197.2
Sandstone-----	.8	198
Shale, sandy, gray-----	.6	198.6
Slate, gray-----	.6	199.2
Slate, black-----	3.4	202.6
Sulfur-----	.2	202.8

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W-32H1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	4.4	207.2	
Fire clay-----	.9	208.1	
Shale, sandy-----	1	209.1	

Well 13/ 9W-32K1

Type of record: Driller's log.

Altitude: About 585 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface; clay, and sand-----	37	37	
Hardpan-----	48.2	85.2	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	44.1	129.3	
Limestone-----	.9	130.2	
Shale, sandy-----	13.3	143.5	
Slate, gray-----	28.8	172.3	
Slate, black-----	.3	172.6	
Siderite-----	.2	172.8	
Slate, black and gray-----	1.6	174.4	
Siderite-----	.4	174.8	
Slate, black-----	5.6	180.4	
Coal-----	1.5	181.9	
Fire clay-----	4.4	186.3	
Shale, limy-----	3	189.3	
Limestone and black slate-----	.8	190.1	
Slate, black-----	6	196.1	
Bone coal-----	.4	196.5	
Sandstone-----	3.3	199.8	
Slate, sandy, gray-----	.9	200.7	
Slate, black-----	1.9	202.6	
Limestone, black-----	.5	203.1	
Limestone, gray-----	.6	203.7	
Limestone, black-----	.4	204.1	
Coal-----	4.5	208.6	
Fire clay, green-----	1.1	209.7	
Sandstone and shale streaks-----	1.4	211.1	
Sandstone-----	1.9	213	
Shale, sandy-----	3.8	216.8	
Sandstone-----	.9	217.7	
Shale, sandy-----	21.8	239.5	
Slate, gray-----	3.8	243.3	
Slate, black and gray, with siderite bands-----	19.7	263	
Limestone, black-----	1.3	264.3	
Coal-----	1.6	265.9	
Fire clay, gray-----	2.5	268.4	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W-32K1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, limy, green-----	2	270.4	
Limestone, sandy-----	8.3	278.7	
Shale, limy, sandy, black-----	2.6	281.3	
Shale, limy-----	4.5	285.8	
Sandstone with shale streaks-----	11.2	297	
Shale, sandy-----	4.8	301.8	
Slate, sandy-----	5.2	307	
Slate, gray-----	.5	307.5	
Coal-----	4.7	312.2	
Bone coal-----	.1	312.3	
Fire clay, sandy-----	1.7	314	
Shale, sandy-----	4.2	318.2	

Well 13/ 9W-32M1			
Type of record: Driller's log.		Altitude: About 600 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Drift-----	96	114	
Pennsylvanian system:			
Middle series:			
Limestone-----	2	116	
Shale, light-----	3	119	
Sandstone-----	11	130	
Shale, light-----	15	145	
Shale, blue-----	28	173	

Well 13/ 9W-32R1			
Type of record: Driller's log.		Altitude: About 560 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	3	3	
Softpan-----	32	35	
Softpan, gravelly-----	3	38	
Softpan-----	18	56	
Hardpan-----	15	71	
Softpan-----	6	77	
Pennsylvanian system:			
Middle series:			
Shale, soft, gray-----	13	90	
Limestone-----	1.1	91.1	
Shale, gray-----	1.5	92.6	
Limestone-----	.5	93.1	
Shale, sandy, gray-----	47	140.1	
Shale, gray-----	38.5	178.6	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W-32R1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, dark-----	1	179.6	
Shale, gray-----	2	181.6	
Shale, dark-----	1	182.6	
Shale, brown-----	6.5	189.1	
Coal-----	1	190.1	
Shale, gray-----	1.5	191.6	
Limestone-----	.8	192.4	
Shale, gray, with limestone band-	5.3	197.7	
Shale, gray, with hard bands----	2	199.7	
Shale, dark-----	4	203.7	
Slate, black-----	1.1	204.8	
Limestone-----	.5	205.3	
Shale, limy-----	2	207.3	
Slate, black-----	1.2	208.5	
Limestone-----	.7	209.2	
Shale, limy-----	.5	209.7	
Limestone-----	.9	210.6	
Coal, bony, hard-----	.3	210.9	
Coal-----	1.5	212.4	
Fire clay-----	1.5	213.9	
Limestone-----	.5	214.4	
Shale, limy-----	12	226.4	
Limestone-----	3	229.4	
Shale, limy, sandy-----	10	239.4	
Shale, sandy-----	8	247.4	
Shale, gray-----	4	251.4	
Shale, dark-----	2	253.4	
Shale, brown-----	12	265.4	
Shale, black-----	2	267.4	
Coal-----	2	269.4	
Shale, gray-----	4	273.4	
Limestone, soft partings-----	1	274.4	
Shale, sandy, gray-----	12	286.4	
Shale, limy-----	4	290.4	
Shale, sandy, gray-----	36	326.4	
Shale, sandy, brown-----	3	329.4	
Coal-----	5	334.4	
Sandstone-----	1	335.4	

Well 13/ 9W-33A1

Type of record: Driller's log.

Altitude: About 459 feet.

Quaternary system:			
Recent and Pleistocene series:			
Soil and drift-----	18	18	
Sand and gravel, brown-----	53	71	
Sand and gravel, gray-----	25	96	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W-33D1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Siderite and shale bands-----	.9	72	
Shale, gray-----	9.8	81.8	
Shale, gray and black, with siderite bands-----	2.4	84.2	
Shale, black-----	6.7	90.9	
Coal-----	2.1	93	
Fire clay-----	1.8	94.8	
Shale, limy-----	3.3	98.1	
Shale, gray and black, with limestone boulders-----	8.7	106.8	Shale with lime- stone nodules (?)
Coal-----	.2	107	
Sandstone with shale streaks-----	2	109	
Slate, gray-----	.7	109.7	
Slate, black-----	3.3	113	
Slate, black, with sandstone streaks-----	.5	113.5	
Coal-----	2.5	116	
Sulfur-----	.3	116.3	
Coal-----	1.4	117.7	
Fire clay-----	.7	118.4	
Shale, sandy-----	.6	119	
Sandstone-----	3	122	

Well 13/ 9W-33E1

Type of record: Driller's log.		Altitude: About 545 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	6	6	
Pennsylvanian system:			
Middle series:			
Shale, weathered-----	4	10	
Shale, sandy-----	55	65	
Slate, black and gray-----	31	96	
Shale, gray-----	.5	96.5	
Slate, black-----	6.6	103.1	
Coal-----	2.2	105.3	
Fire clay-----	2	107.3	
Limestone-----	.4	107.7	
Shale, clayey, gray, with lime- stone boulders-----	4.1	111.8	Shale with lime- stone nodules (?)
Shale, clayey, gray and black, with limestone boulders-----	2.2	114	Do
Shale, clayey, limy, black-----	2.8	116.8	
Slate, black-----	3.2	120	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W-33N1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Slate, black-----	2	73.4	
Limestone-----	.9	74.3	
Coal-----	4.3	78.6	
Shale, gray-----	2	80.6	
Shale, sandy, gray-----	21	101.6	
Shale, brown-----	4	105.6	
Shale, brown, with hard bands----	26	131.6	
Slate, black-----	2	133.6	
Coal-----	1.3	134.9	
Fire clay-----	2	136.9	
Shale, sandy, gray-----	19	155.9	
Slate, gray-----	5	160.9	
Shale, sandy, brown-----	15.1	176	

Well 13/ 9W-33R1			
Type of record: Driller's log.	Altitude: About 461 feet.		
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	10	10	
Sand and gravel-----	70	80	W.B.
Drift, blue-----	6	86	
Gravel-----	8.4	94.4	
Sandstone-----	3.4	97.8	
Slate, blue-----	23.8	121.6	
Coal and slate-----	4	125.6	
Slate, gray-----	.5	126.1	
Coal-----	2	128.1	
Slate, black-----	1.5	129.6	
Fire clay-----	1.3	130.9	
Limestone-----	.3	131.2	
Slate, black-----	2	133.2	
Slate, gray-----	9.1	142.3	
Slate, black-----	1.4	143.7	
Slate, gray-----	16.2	159.9	
Coal-----	5.8	165.7	
Fire clay-----	1.2	166.9	
Shale, sandy-----	3.4	170.3	

Well 13/ 9W-34A7			
Type of record: Driller's log.	Altitude: About 507 feet.		
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	4	4	
Soil and sand-----	11	15	
Sand, brown-----	20	35	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W-34A7--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel, brown-----	5	40	
Sand and gravel, brown, with cobbles-----	30	70	W.B. 60 to 139 ft
Boulder-----	5	75	
Sand and gravel, brown-----	3	78	
Sand and gravel, gray-----	8	86	
Sand, medium, gray-----	9	95	
Sand and gravel, gray-----	13	108	
Sand and little gravel, gray-----	9	117	
Sand and small gravel, gray-----	10	127	
Sand and very good gravel, gray--	6	133	
Sand and large cobbles-----	3	136	
Sand and good gravel-----	3	139	
Pennsylvanian system:			
Middle series:			
Shale-----	1	140	

Well 13/ 9W-34A10

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

Quaternary system:			
Recent and Pleistocene series:			
Soil-----	4	4	
Soil and sand-----	12	16	
Sand-----	16	32	
Sand and gravel-----	19	51	
Sand, small amount of gravel-----	9	60	
Gravel, coarse, and sand-----	8	68	W.B. 60 to 138 ft
Gravel, very coarse, and sand----	16	84	
Sand and gravel-----	11	95	
Sand-----	8	103	
Gravel and sand-----	17	120	
Sand-----	5	125	
Sand and medium gravel-----	14	139	

Well 13/ 9W-34C1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand-----	25	25	
Gravel-----	55	80	W.B. 62 to 174 ft
Sand-----	6	86	
Gravel-----	18	104	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W-34C1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	20	124	
Sand, coarse-----	26	150	
Sand and gravel-----	12	162	
Gravel-----	12	174	
Pennsylvanian system:			
Middle series:			
Limestone-----	16	190	
Limestone, soft, white-----	15	205	
Shale, light-----	16	221	
Shale, black-----	11	232	

Well 13/ 9W-34M1

Type of record: Driller's log. Altitude: About 493 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand-----	11	11	
Clay, red-----	1	12	
Gravel-----	6	18	
Sand-----	5	23	
Sand and gravel-----	12	35	
Gravel, fine-----	12	47	
Sand and gravel-----	8	55	
Gravel, coarse-----	3	58	
Gravel-----	12	70	
Sand-----	16	86	
Gravel-----	2	88	
Sand-----	7	95	
Gravel and sand, fine-----	5.4	100.4	
Sand and gravel-----	37.6	138	
Gravel, coarse-----	1.3	139.3	
Pennsylvanian system:			
Middle series:			
Shale, black-----	2.7	142	
Shale, gray-----	.2	142.2	
Coal-----	1.1	143.3	
Fire clay-----	4.1	147.4	
Shale, sandy-----	17.1	164.5	
Shale, blue-----	10.5	175	
Shale, black-----	.5	175.5	
Coal-----	.3	175.8	
Shale, black-----	3	178.8	
Shale, gray-----	3.7	182.5	
Coal-----	5.2	187.7	
Shale, sandy-----	11	198.7	
Shale, sticky, gray-----	4.8	203.5	
Shale, dark-----	9.7	213.2	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W-35J1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and large gravel-----	5	5	
Sand and gravel-----	16	21	W.B. 18 to 75 ft
Gravel-----	4	25	
Sand, fine-----	28	53	
Sand, fine to coarse-----	10	63	
Sand, fine-----	3	66	
Gravel and sand, fine-----	7	73	
Sand, fine-----	2	75	

Well 13/ 9W-35J2

Type of record: Driller's log. Altitude: About 485 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	17	17	
Sand and thin layer of gravel----	29	46	W.B.
Sand and little gravel-----	4	50	W.B.
Gravel, some over-size, and little sand-----	9	59	W.B.
Gravel and more sand-----	1	60	W.B.

Well 13/ 9W-35R1

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	2	2	
Sand-----	19	21	
Sand and gravel-----	19	40	W.B.

Well 13/ 9W-36J1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	37	37	
Pennsylvanian system:			
Middle series:			
Sandstone-----	8	45	
Shale-----	40	85	
Slate, hard-----	2	87	
Coal-----	--	87	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W-36J5

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	31	31	
Pennsylvanian system:			
Middle series:			
Limestone-----	4	35	
Shale, light-----	15	50	
Sandstone-----	10	60	W.B.
Shale, gray-----	15	75	
Shale, dark-----	--	75	

Well 13/ 9W-36K2

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	1	1	
Hardpan, sandy-----	4	5	
Sand and gravel-----	44	49	W.B.

Well 13/ 9W-36M2

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand-----	105	105	
Pennsylvanian system:			
Middle series:			
Coal, trace, and limestone-----	--	105	

Well 13/ 9W-36Q3

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan-----	22	40	
Pennsylvanian system:			
Middle series:			
Limestone-----	8	48	
Shale-----	33	81	
Slate-----	3	84	
Coal-----	7	91	
Shale-----	44	135	
Coal-----	3	138	
Fire clay-----	2	140	
Sandstone-----	8	148	
Shale-----	11	159	
Coal-----	5	164	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/ 9W-36Q3--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale-----	3	167	
Fire clay-----	7	174	
Limestone-----	1	175	
Shale-----	1	176	
Coal-----	2	178	
Well 13/10W-1D1			
Type of record: Driller's log.		Altitude: About 648 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay and sand-----	17	17	
Mud and gray sand-----	18	35	
Sand and mud-----	8	43	
Sand and gray mud-----	10	53	
Sand and green mud-----	7	60	
Sand and mud-----	3	63	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	9	72	
Shale, red-----	5	77	
Shale-----	3	80	
Shale, gray and red-----	7	87	
Limestone, sandy, gray-----	10	97	
Shale, dark-gray-----	16	113	
Shale, muddy-----	7	120	
Shale, dark-----	12	132	
Shale, light-----	8	140	
Coal and shale-----	7	147	
Shale, muddy-----	7	154	
Limestone, hard, brown-----	2	156	
Limestone-----	9	165	
Sandstone-----	12	177	
Shale, sandy-----	21	198	
Shale, gray-----	18	216	
Shale, dark-----	45	261	
Coal and shale-----	5	266	
Shale-----	3	269	
Limestone-----	1	270	
Shale, dark-----	13	283	
Coal and shale-----	4	287	
Shale, black-----	3	290	
Shale, sandy-----	7	297	
Shale, dark-----	16	313	
Shale, muddy-----	14	327	
Shale, dark-----	8	335	
Shale, light-gray-----	5	340	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 13/10W-12R2--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, gray-----	4	6	
Clay, yellow-----	12	18	
Clay, sandy, soupy, gray-----	28	46	
Till, clayey, hard, gray-----	8	54	

Well 13/10W-24N1

Type of record: Driller's log.

Altitude: About 620 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Sand and mud, yellow-----	3	18	W.B.
Unknown-----	2	20	
Sand, mud, and little gravel, gray-----	5	25	W.B.
Unknown-----	34	59	
Sand, mud, and some pebbles-----	2	61	W.B.
Pennsylvanian system:			
Middle series:			
Shale-----	25	86	

Table 4.--Field chemical analyses of water from wells, Vigo County, Indiana
(Results in parts per million)

Well Number	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
10/ 8W- 1C1	Ss	P	5- 7-59	--	0.1	464	10	8	160	
4F1	Ss	P	5-11-59	--	.1	1,280	15	48	12	
4J1	Ss	P	5-11-59	--	.1	844	10	26	5	
4M2	Ss	P	5- 7-59	--	.1	1,440	20	148	7	
4N1	Ss	P	5-11-59	--	.1	952	12	42	6	
5B1	Ss	P	8-17-59	68	.1	1,500	12	148	8	
5M2	Sh	P	6-29-60	--	.3	2,220	8	1,120	18	
5P1	Ss	P	-----	--	.1	1,670	-----	334	12	
7G1	Ss	P	5-10-59	--	.5	1,530	20	452	42	
8Q1	Sh,Ss	P	6-29-60	--	.3	1,400	9	156	8	
9B1	Ss	P	5- 7-59	--	.1	878	25	24	4	
10B1	Ss	P	5- 7-59	--	.1	795	10	24	4	
10C1	Ss	P	5- 7-59	--	.1	747	10	24	5	
10C2	Ss	P	5- 7-59	--	.1	815	10	24	4	
12N1	-----	P	5-10-59	--	1.0	464	25	72	252	
18N1	Ss	P	-----	52	.1	466	-----	16	88	
19J1	Sh	P	5-11-59	--	5.0	576	25	52	100	Water has yellow color.
20N1	Sd-sh	P	5-11-59	--	.1	220	190	102	412	
21J1	-----	P	-----	--	.1	839	-----	42	16	
23R1	Ss	P	6-30-60	--	.1	717	8	12	8	
25N1	Ss	P	8-25-59	--	.5	444	15	6	168	

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

Material: C, coal; G, gravel; Ls, limestone; S, sand; Sd-sh, sandy shale; Sh, shale; Ss, sandstone.

Geologic age: P1, Pleistocene; P, Pennsylvanian; D, Devonian.

10/ 8W-27R1	P	5-11-59	--	0.1	517	10	6	26
28C1	Ss	8-25-59	56	.1	1,160	11	48	6
35N1	Ss		56	.1	481		10	52
36F1	Ss,Sh	5-11-59	--	.1	903	25	6	262
36J1	Ss	5-11-59	--	.1	234	280	158	528
36N1	Ss	4-16-58	54	.3	473		20	238
	Ss	7-29-57	54	.1	405		18	218
36R1	Ss,Sh	8-17-59	--	3.0	444	72	20	364
10/ 9W-1M1	P	8-25-59	--	.1	366	13	8	234
2A1	P	8-25-59	--	.1	1,410	16	38	5
2B2	P	8-11-59	--	.1	356	40	22	272
2B3	Ls,Ss	8-25-59	--	.1	927	13	38	10
2E2	P	8-11-59	--	1.0	1,370	12	162	68
3R1	Ss	4-21-60	--	.4	610	8	8	76
8M1	Ss	8-11-59	--	.1	390	52	8	360
9Q1	Ss	8-11-59	--	.1	956	9	40	2
11C1	Ss	8-27-59	--	3.0	429	12	9	254
11E2	Ss	11- 4-59	--	.5	444	10	10	192
11K1	Ss	8-11-59	--	.1	327	415	104	672
14A1	Ss	8-12-59	--	.1	249	185	54	376
14B1	Ss	8-10-59	--	.1	264	21	19	196
14E2	Ss	8-12-59	--	.1	332	165	30	380
14E3	Ss	8-12-59	--	2.5	337	14	4	240
14G1	Ss	8-12-59	--	.1	395	15	2	248
14J2	Ss	8-12-59	57	.1	381	15	4	224
14L5	Ss,	8-12-59	--	.1	503	12	17	144
	Sd-sh							
14M1	Ss	8-12-59	--	.1	586	12	8	42
14M2,5	Ss	8-12-59	--	3.0	449	75	18	336
14M5	Ss	6- 2-60	58	.8	278	30	12	160
15J1	Ss	8-12-59	--	.1	371	39	10	276
15J2	P	8-12-59	--	2.5	566	74	13	356
15J4	Ss	9-15-59	--	3.0	561	225	24	500
16C1	P	8-11-59	57	.1	293	105	24	296
18P1	S	4-21-60	--	.1	361	31	14	312
20D1	P	8-11-59	--	.1	1,160	16	90	62
22E2	Ss	8-11-59	--	1.0	434	160	28	466
26B1	Ss,Sh	8-11-59	--	.1	327	185	36	424

Composite sample.

Table 4.--Field chemical analyses of water from wells, Vigo County, Indiana--Continued

Well Number	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
10/ 9W-26D1	Ss	P	7-29-57	--	0.8	176	-----	16	208	
26J1	C, Ls	P	2-18-58	--	.5	517	-----	12	248	
26N1	Ss	P	10-21-59	56	.3	586	12	24	4	
28E1	Ss, Sh, C	P	8-11-59	--	.1	332	110	58	480	
28H1	Sd-sh	P	8-11-59	54	.1	595	15	12	70	
29J1	-----	P	8-11-59	57	.1	542	22	3	154	
32N1	Ss	P	-----	56	.1	1,160	-----	612	28	
33A1	Ss	P	4-21-60	52	.1	190	255	140	452	
33H1	S	P1	8-11-59	--	5.0	395	17	4	280	
33L1	Ss	P	7-29-57	--	.1	683	-----	122	7	
34N1	Ss	P	8-11-59	--	.1	468	38	42	252	
34N2	S, G	P1	8-11-59	--	.1	317	87	10	296	
10/10W- 2E1	Ss	P	4-21-60	53	.3	678	48	224	100	
3N1	S, G	P1	8-13-59	--	.1	268	31	5	248	
12A1	S, G	P1	8-12-59	--	2.5	415	13	4	296	
21R1	S, G	P1	8-13-59	--	7.5	381	24	2	236	
24H1	-----	P	8-13-59	--	.3	1,080	23	29	82	
32D1	-----	D	8-13-59	64	1.0	1,310	18	9,950	300	
11/ 8W- 1B1	G	P1	7-30-57	--	2.5	368	-----	2	262	
1J1	-----	P	6-12-58	63	.1	893	-----	24	8	
2D1	-----	P(?)	5- 5-59	59	> 7.5	425	2,360	18	1,790	Mine Water (?)
3Q1	Ss	P	5- 5-59	--	.3	464	25	8	300	
5C1	S, G	P1	5- 5-59	--	1.5	498	10	4	340	
5R1	G	P1	7-30-57	--	.2	376	-----	8	464	
6A1	S, G	P1	5- 5-59	--	.1	322	25	8	252	
6R2	S, G	P1	8-14-59	--	.1	288	19	3	216	
7H1	S, G	P1	8-14-59	--	1.0	464	20	3	316	
8P1	-----	P	5- 6-59	--	.3	610	10	4	38	

11/ 8W- 8P3	Sh,C	P	8-23-60	--	0.3	268	65	12	232
9D1	Ss	P	5- 6-59	--	.1	1,220	45	116	88
10E1	G	Pl	5- 6-59	--	7.5	532	10	3	284
10M1	S,G	Pl	5- 6-59	--	5.0	576	10	7	266
11D1	-----	P	7-30-57	--	.1	383	-----	82	62
11P1	Ss	P	5- 8-59	--	2.0	566	35	36	444
12L1	Ss	P	8-24-59	--	.1	595	14	8	6
12R1	Ss	P	5- 6-59	--	.1	605	10	8	5
14N1	Sd-	P	7-30-57	--	.1	569	-----	8	20
	sh,C								
15E2	Ss	P	5- 6-59	64	.1	844	10	34	6
16G1	Ss	P	5- 6-59	--	.1	859	50	26	5
16P3	Ss	P	7-29-57	--	.2	200	-----	28	246
16P4	-----	P	7-29-57	--	.1	771	-----	34	5
16Q1	-----	P	7-30-57	--	.1	380	-----	2	276
17J1	-----	P	5- 6-59	--	.1	854	10	10	4
20Q1	Ss	P	6-30-60	--	.2	805	9	6	20
20R1	Ss	P	6-30-60	--	.3	737	8	8	18
21A8	Ss	P	12-19-57	56	.3	683	-----	24	16
21A10	Ss	P	5-11-59	--	.3	605	15	84	8
22A1	Ss	P	5- 6-59	--	.1	752	15	18	6
22D2	Ss	P	7-29-57	--	.5	268	-----	2	180
24C1	Ss	P	5- 6-59	--	.1	303	65	74	496
25H1	Ss	P	5- 6-59	--	.5	444	15	5	284
28K1	Ss	P	5- 6-59	--	.1	996	10	16	4
28L1	Ss	P	5- 6-59	--	.1	888	10	22	5
28P1	Ss	P	5- 6-59	--	.1	1,460	10	20	1
30F1	Sd-sh	P	6-30-60	--	2.5	488	53	22	380
31R1	Ss	P	5- 6-59	--	.1	1,140	10	16	1
32N1	Ss	P	5- 6-59	65	.1	1,110	10	15	6
34C1	Ss	P	5- 6-59	--	.1	1,040	10	36	4
34M1	Ss	P	5- 6-59	--	.1	1,100	10	56	7
11/ 9W- 1C1	G	Pl	9-30-57	--	4.0	464	-----	4	346
1L1	Ss	P	5- 6-59	--	.1	459	25	10	164
2J1	S	Pl	7-27-60	--	.5	249	57	8	232
2J2	S,G	Pl	7-26-60	--	1.0	205	57	8	184

Table 4.--Field chemical analyses of water from wells, Vigo County, Indiana--Continued

Well Number	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
11/ 9W- 3E2	S, G	P1	12-19-57	59	0.1	264	-----	2	352	
4H1	S, G	P1	7-26-60	--	.3	278	130	18	292	
4L1	S, G	P1	7-26-60	--	.2	254	125	10	280	
7J2	S, G	P1	7-26-60	--	.1	303	260	32	428	
7R1	S, G	P1	7-26-60	54	.1	264	185	22	356	
9C1	S, G	P1	8- 7-58	60	.1	303	-----	38	328	
9C2	S, G	P1	8- 7-58	61	.2	303	-----	38	328	
9D1	S, G	P1	8- 7-58	61	1.0	317	-----	8	244	
9E1	S, G	P1	7-26-60	--	.2	249	99	16	292	
10C1	S, G	P1	7-26-60	--	.2	249	410	76	596	Contaminated (?)
10E1	S, G	P1	7-26-60	--	.3	229	165	36	352	
10F1	G	P1	8-18-59	--	.1	264	106	326	584	Contaminated (?)
10F2	G	P1	8-25-59	--	.1	259	150	72	376	Do
10G1	S, G	P1	8-18-59	--	.1	337	785	62	888	Do
10G2	S, G	P1	7-27-60	--	.1	244	525	32	656	Do
10N1	S, G	P1	9-12-57	60	.3	222	-----	170	428	Do
11K3	Ss	P	8-25-59	--	.1	1,330	12	236	6	
13B2	S, G	P1	8-18-59	55	.1	307	23	7	256	
13D1	S	P1	7-30-57	--	.1	113	-----	8	216	
15D1	S, G	P1	8-15-57	60	.1	293	-----	666	608	Contaminated (?)
15D2	S, G	P1	8-15-57	56	.1	264	-----	366	556	Do
17A3	S, G	P1	7-26-60	--	.1	264	57	60	324	Do
24L1	Ss	P	5- 6-59	58	.1	1,040	10	56	4	
25M1	Ss	P	5- 7-59	--	.3	986	15	46	56	
26N3	S, G	P1	2-28-58	--	3.0	590	-----	2	332	Water turbid
30D1	G	P1	4-21-60	--	.1	332	60	18	264	
32M1	S, G	P1	8-12-59	56	5.0	351	17	4	384	
34C1	S, G	P1	8-11-59	--	1.5	542	22	2	238	
35C1	Ls	P	8-12-59	--	.1	1,180	21	268	12	

11/ 9W-35K1	Ls	P	8-11-59	--	0.1	376	150	15	400
36R2	-----	P	5- 7-59	--	.1	415	245	374	920
11/10W- 2H1	Sh	P	8-18-59	--	.1	678	17	144	50
4H1	S	P1	7-26-60	--	1.0	429	20	18	268
4R1	S,G	P1	8-26-59	--	1.0	517	12	11	296
23N1	G	P1	4-21-60	--	.2	298	79	16	284
25E5	Ss,C	P	8-13-59	--	.1	512	129	12	496
25F5	-----	P	8-13-59	--	.1	464	20	86	208
25F6	-----	P	8-25-59	--	.1	478	12	15	304
25F7	C	P	8-18-59	--	.1	415	20	19	272
25J2	-----	P	8-13-59	--	.1	273	71	10	268
25N2	-----	P	8-18-59	--	.1	356	11	7	192
12/ 8W- 2A1	G	P1	8-26-59	--	.1	220	18	2	156
2R2	-----	P	4- 9-59	--	.3	390	15	2	162
6M1	S	P1	4- 9-59	--	.1	508	55	6	448
6M2	S	P1	4- 9-59	--	.5	561	110	30	530
8A1	S,G	P1	7-31-57	--	4.0	307	-----	1	252
9N1	S,G	P1	4-16-59	--	1.5	254	38	4	188
11D1	C	P	7-26-60	--	.3	351	13	8	4
11K1	Ss	P	4-16-59	56	.1	566	30	144	12
11R1	Ss	P	4-16-59	54	.1	561	20	110	18
13P1	Ss	P	7-27-60	--	1.5	386	25	8	272
15A1	Ss	P	4-16-59	--	2.5	566	270	8	420
18R1	S	P1	9-15-59	--	.5	254	120	22	268
21R1	Ss	P	4-16-59	--	2.0	429	10	6	280
22N1	-----	P	7-31-57	--	1.0	315	-----	14	314
24A1	-----	P	4-16-59	--	.1	512	10	4	8
24B2	Ss	P	4-16-59	--	.8	459	10	4	288
24M1	S,G	P1	7-31-57	--	.1	434	-----	50	534
26Q1	Sd-sh	P	8-17-59	--	.3	415	22	4	252
26R2	-----	P	6-28-60	--	.1	1,190	9	84	10
27Q1	Ss	P	4-15-59	--	.5	483	10	4	306
28Q1	S	P1	4-16-59	61	1.0	561	8	8	82
29D1	S,G	P1	4-16-59	54	1.5	468	45	14	374
30B2	S,G	P1	4-16-58	637	1.0	244	-----	0	220

Corrodes pipes

Softened ?

Table 4.--Field chemical analyses of water from wells, Vigo County, Indiana--Continued

Well Number	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
12/ 8W-31B1	S,G	P1	-----	--	3.0	415	10	6	290	
31R1	S,G	P1	8-17-59	--	.1	171	23	12	160	
32B1	Sh,C	P	4-15-59	61	5.0	444	10	4	214	
32D1	S,G	P1	4-15-59	56	.1	376	20	6	220	Iron filter ?
32E1	S,G	P1	4-16-59	61	.1	332	35	6	258	
32N1	S,G	P1	4-16-59	--	7.5	400	10	0	264	
34B1	Ss	P	4-15-59	--	.3	444	10	4	258	
34H1	-----	-----	4-15-59	--	.1	303	75	82	324	Mine water
12/ 9W- 2F1	S,G	P1	4-17-59	--	.1	293	95	14	306	
2G1	S,G	P1	3-20-58	56	-----	237	-----	0	225	
3A2	S,G	P1	7-28-60	--	.1	249	120	18	300	
4Q1	S,G	P1	4-17-59	--	.1	264	150	12	312	
4R1	S,G	P1	4-15-59	--	.3	249	140	20	292	
5E1	S	P1	4- 9-59	--	5.0	493	90	28	404	
8N1	Ss	P	8-26-59	--	.1	498	135	120	72	
9H1	S,G	P1	4-14-59	--	.1	298	155	14	364	
10D1	S,G	P1	4-14-59	--	.1	283	130	14	316	
11A1	S,G	P1	7-28-60	52	.1	381	90	26	376	
21M1	S,G	P1	4-13-59	60	.1	346	90	10	352	
25B1	S,G	P1	4-17-59	--	.3	483	75	12	412	
25B2	Ss	P	4-14-59	--	.1	400	45	10	96	
25B3	Ls	P	4-17-59	--	.1	517	12	16	36	
25B5	Ss	P	4-14-59	--	.1	503	55	8	200	
28C3	Ls	D	9-15-60	--	.3	590	90	5,400	1,240	
34P1	S,G	P1	7-27-60	--	.1	298	92	14	284	
35K1	S,G	P1	4-14-59	--	.1	351	60	20	308	
35Q1	G	P1	4-17-59	--	2.5	390	15	24	192	
36N2	Ss	P	4-14-59	60	2.0	454	10	18	236	

12/ 9W-36N3	S, G, Ss	P1	4-14-59	--	0.5	429	42	8	332
36Q1	G	P1	4-14-59	--	3.0	439	10	6	306
12/10W- 1H1	S	P1	6- 2-60	56	3.0	439	40	8	360
33P1	S, G	P1	8- 1-57	--	.5	264	---	28	460
34K1	C	P	4-13-59	57	.1	669	25	136	30
13/ 7W- 6E1	Sd-sh	P	9-14-59	--	.1	717	13	29	24
7J1	Sd-sh, Ss	P	4- 8-59	--	2.0	581	855	26	872
7K1	-----	P	4- 8-57	--	.1	586	5	6	22
17H1	Ss	P	4-30-58	57	.2	478	---	15	88
18P1	S, G	P1	4- 8-59	--	.1	468	195	34	558
19J1	S	P1	4- 8-59	--	.1	278	55	8	212
20N1	Sh	P	4- 8-59	--	.1	410	10	4	26
29R1	S, G	P1	4- 8-59	--	3.0	337	10	4	228
31A1	-----	P	4- 8-59	--	.1	459	10	6	196
31B1	S, G	P1	4- 8-59	--	.1	425	10	4	238
31H1	S, G	P1	4- 8-59	--	1.0	449	10	4	280
31R1	S, G	P1	9-24-58	--	2.0	366	---	4	256
32B1	Ss	P	6-26-60	--	.1	468	8	6	28
13/ 8W- 1Q1	S	P1	4- 9-59	--	.3	254	55	60	274
13A1	S, G	P1	4- 9-59	--	.1	146	95	12	184
13G2	Sh	P	4- 9-59	--	.1	683	10	3	14
13G3	-----	P	4- 9-59	--	.1	625	10	16	12
13G6	C	P	7-20-60	56	1.5	434	400	16	690
13H1	-----	P	4- 9-59	--	.3	752	25	22	14
13H2	S	P1	4- 8-58	--	.1	166	65	14	152
13H3	C	P	7-20-60	60	.3	2,640	685	546	144
13Q1	S	P1	4- 9-58	--	.3	386	40	8	316
13R2	S, G	P1	10-23-58	58	.1	439	---	6	356
14A1	S, G	P1	4- 9-59	--	.3	429	115	6	406
16N1	S, G	P1	4- 9-59	--	.1	376	300	12	554
24B1	S, G	P1	4- 9-59	--	3.0	386	85	10	362
25C1	Ss	P	4-22-59	--	.1	1,730	25	1,080	48

Methane gas?

Table 4.--Field chemical analyses of water from wells, Vigo County, Indiana--Continued

Well Number	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
13/ 8W-26B1	S,G	P1	8-14-59	--	0.3	390	132	8	396	
13/ 9W-2A1	G	P1	8-14-57	56	.1	261	-----	0	288	
4D1	S,G	P1	4-10-59	--	.5	327	165	32	416	
4L2	S,G	P1	7-21-60	--	.3	381	130	8	396	
13N1	S,G	P1	8-26-59	--	.1	254	58	4	240	
14K1	S,G	P1	8-26-59	--	.1	293	40	6	264	
24D1	S,G	P1	8-26-59	--	.1	283	62	4	268	
25L1	G	P1	8-26-59	--	.1	249	33	10	244	
27P1	S,G	P1	7-21-60	--	.1	303	95	8	328	
29E1	S	P1	7-21-60	--	1.5	634	60	20	522	
29F1	S	P1	4-10-59	--	.1	468	285	36	618	
31C2	S	P1	8-14-57	56	.1	334	-----	32	732	Well depth 138 ft
34A3	S,G	P1	14- 3-56	--				404	624	Well depth 100 ft
34A4	S,G	P1	6-13-58	--				44	344	Well depth 138 ft
34A8	S,G	P1	8-30-56	--				376	688	Well depth 100 ft
35A1	S,G	P1	7-15-57	--				14	412	Do
35J2	S,G	P1	10-10-57	--				86	444	
35R1	S,G	P1	4- 9-59	--	.1	271	110	14	316	
36F1	S,G	P1	7-20-60	67	.2	298	250	8	456	
36F3	S,G	P1	8-26-59	--	.1	322	101	8	372	
36G1	S,G	P1	4-15-59	--	.1	317	155	10	384	
36J1	S,G	P1	4- 9-59	--	.1	282	72	10	298	
36J5	Ss	P	4- 9-59	--	.1	356	70	8	660	
36K1	S,G	P1	4- 9-59	--	.1	303	85	12	332	
36Q1	Ss	P	4- 9-59	--	.1	361	65	20	184	
36Q3	-----	P	9-15-59	--	.1	298	77	10	256	
13/10W-24N1	S,G	P1	7-21-60	--	.1	517	175	18	552	

Table 5.--Records of springs, Vigo County, Indiana

Spring number: See text for well-numbering system.
 Altitude: Altitude of land-surface datum from topographic map.
 Water-bearing material: T, till.
 Geologic age: Pl, Pleistocene.

Use: D, domestic
 Field chemical analyses: In parts per million;
 water samples collected on date of measurement.

Spring	Owner	Altitude (feet)	Water-bearing material	Geologic age	Flow (gpm)	Date of measurement	Use	Temperature (°F)	Field chemical analyses					Remarks
									Iron (Fe)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Hardness as CaCO ₃	
12/8W-34R2	I. Taylor	560	T	Pl	----	5- 5-59	D	--	1.0	307	30	10	224	Spring in small gully at base of hill.
13/8W-25N1	Vigo County	565	T	Pl	----	9-15-60	D	66	.1	229	21	8	204	Spring at bottom of ditch in road-cut on county road right of way.

Table 6.--Field chemical analyses of water from streams Vigo County, Indiana
(Results in part per million)

Name	Location	Date of collection	Temperature (F°)	Iron (Fe)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Hardness as CaCO ₃	Remarks
T. 10 N., R. 9 W.									
Prairie Creek	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 8	9-13-60	69	0.8	205	17	16	172	Sample taken at bridge on county road.
Do-----	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 10	9-13-60	61	.2	268	24	10	244	Do
Ditch flowing into Prairie Creek	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 31	9-13-60	58	.2	195	340	22,380	2,610	Sample taken on north side of county road.
T. 10 N., R. 10 W.									
T. 11 N., R. 8 W.									
Honey Creek	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 2	9-15-60	64	.2	259	890	10	1,150	Sample taken at bridge on county road.
T. 11 N., R. 9 W									
Do-----	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13	9-15-60	63	.2	278	1,420	10	1,470	Do
Do-----	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 15	9-15-60	64	.2	259	1,100	12	1,200	Sample taken at bridge on federal road.
Do-----	NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 18	9-15-60	64	.2	312	515	68	660	Sample taken at bridge on state road
Branch of Honey Creek	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 25	9-15-60	62	.2	132	1,310	10	1,600	Sample taken at bridge on county road.
Do-----	SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 25	9-15-60	64	.2	234	860	12	1,030	Do

T. 11 N., R. 10 W.

Clear Creek	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 2	9-15-60	75	0.3	312	28	14	312	Sample taken at bridge on county road.
Hawks Creek	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 16	9-15-60	72	.2	386	50	10	404	Do
Wabash River	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 33	9-13-60	68	.3	288	59	26	312	

T. 12 N., R. 8 W.

Honey Creek	SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 36	9-14-60	60	.2	390	1,060	10	1,340	Sample taken at bridge on county road.
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T. 12 N., R. 9 W.

Wabash River	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 8	9-15-60	76	.2	264	57	20	280	
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T. 12 N., R. 10 W.

Little Sugar Creek	NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 13	9-15-60	73	.2	317	41	14	308	Sample taken at bridge on county road.
Sugar Creek	NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 23	9-15-60	71	.2	307	38	26	316	Do

T. 13 N., R. 8 W.

Spring Creek North Branch	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 6	9-15-60	69	.2	366	29	10	344	Do
Otter Creek	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 13	9-15-60	66	.2	224	640	10	788	Do
Gundy Ditch	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 19	9-15-60	62	.2	239	39	8	224	Do
Otter Creek	NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 25	9-15-60	65	.5	200	395	14	532	Do
Sulphur Creek	NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 33	9-15-60	64	.2	210	1,100	14	1,300	Do

T. 13 N., R. 9 W.

Brouillette's Creek North Salt Creek	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 4	9-15-60	69	.2	371	295	16	536	Do
Otter Creek	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 5	9-15-60	71	.3	390	54	14	404	Do
	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 26	9-15-60	70	.2	220	520	64	720	Do

Table 7.--Water levels in observation wells, Vigo County, Indiana

Vigo 1. (12/9W-28L6). Commercial Solvents Corporation. Terre Haute. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 28, T. 12 N., R. 9 W. Drilled unused water table well in glacio-fluvial sand and gravel, diameter 1 $\frac{1}{2}$ inches, depth 130.5 feet. Land-surface datum is 493.4 feet above msl. Highest water level is 42.37 below lsd, Apr. 19, 1944; lowest 56.70 below lsd, Nov. 15, 1944. Records available 1944. Affected by nearby pumping.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1944		Feb. 16	50.23	May 17	42.95	Sept. 6	52.12
Jan. 5	50.15		23	31	42.53	20	55.45
12	50.15	Mar. 8	46.63	June 14	42.87	Oct. 4	55.61
19	49.65		22	28	43.12	18	56.20
26	50.15	Apr. 5	48.57	July 12	49.70	Nov. 1	56.37
Feb. 2	50.15		19	26	50.70	15	56.70
9	50.23	May 3	42.95	Aug. 23	52.03	29	56.28

Vigo 2. (12/9W-28L7). Commercial Solvents Corporation. Terre Haute. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 28, T. 12 N., R. 9 W. Drilled unused water table well in glacio-fluvial sand and gravel, diameter 6 inches, depth 133.5 feet. Land-surface datum is 495.9 feet above msl. Recording gage installed Feb. 13, 1946. Highest water level is 42.15 below lsd, Apr. 17, 1950; lowest, 60.95 below lsd, Dec. 17, 1948. Records available 1946-59. Affected by nearby pumping and river fluctuation.

(Daily highest water level from recorder graph, 1946)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	-----	-----	50.50	-----	52.40	51.30	50.80	53.90	54.80	55.45	56.68	56.52
2	-----	-----	51.10	-----	-----	50.40	51.00	53.75	54.65	55.50	-----	56.47
3	-----	-----	50.85	50.20	-----	50.25	51.20	53.75	54.70	55.65	-----	56.58
4	-----	-----	50.80	50.45	-----	50.25	51.40	53.75	54.70	54.35	-----	56.60
5	-----	-----	50.80	50.65	-----	50.25	51.55	53.65	54.75	55.00	-----	56.68
6	-----	-----	51.05	50.70	51.85	50.35	51.70	53.65	54.75	54.95	56.34	56.62
7	-----	-----	51.25	50.70	52.00	50.45	51.85	53.80	54.75	54.90	56.35	56.52
8	-----	-----	-----	50.60	52.25	50.55	51.85	53.95	54.35	54.90	56.45	56.46
9	-----	-----	-----	-----	52.35	50.65	52.05	54.10	54.30	55.40	56.43	56.43
10	-----	-----	51.50	-----	52.30	50.75	52.20	54.25	54.60	-----	56.41	56.59
11	-----	-----	51.35	-----	52.05	51.05	52.25	54.20	54.70	-----	56.34	56.72
12	-----	-----	51.35	-----	51.50	51.20	52.40	54.10	54.80	-----	56.37	56.72
13	-----	-----	51.60	-----	51.30	51.55	52.50	54.30	55.00	-----	56.36	56.79
14	-----	-----	51.70	-----	51.35	51.35	52.45	54.50	55.00	-----	56.39	56.63
15	-----	52.00	51.75	-----	51.30	50.75	52.50	54.65	54.85	-----	56.47	56.48
16	-----	51.65	51.50	-----	51.65	50.35	52.55	54.80	54.75	-----	56.47	56.40
17	-----	51.15	51.10	51.60	52.05	50.15	52.70	54.90	54.85	-----	56.40	56.47
18	-----	49.40	50.90	50.75	51.60	50.20	52.70	55.00	55.00	-----	56.39	56.53
19	-----	49.15	50.70	51.75	51.00	50.40	52.95	54.80	55.20	-----	56.40	56.55
20	-----	48.95	-----	51.95	50.85	50.20	53.10	54.85	55.40	-----	56.46	56.54

Table 7.--Water levels in observation wells, Vigo County, Indiana, Continued

Vigo 2--Continued

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	-----	48.75	-----	51.80	50.65	49.85	53.20	54.95	55.45	-----	56.19	-----
22	-----	48.75	-----	51.75	50.70	49.49	53.10	55.05	55.20	-----	56.44	56.63
23	-----	48.80	-----	-----	50.60	49.05	53.20	55.05	55.35	55.30	56.52	56.61
24	-----	48.80	-----	-----	50.25	48.90	53.25	55.05	55.20	55.49	56.44	56.69
25	-----	48.85	-----	-----	50.50	49.05	53.45	55.00	55.15	55.80	56.39	56.60
26	-----	50.50	-----	-----	50.25	49.60	53.50	54.80	55.35	55.98	56.51	56.69
27	-----	50.40	-----	52.35	50.20	50.05	53.60	55.05	55.35	56.20	56.58	56.80
28	-----	50.65	-----	52.35	50.65	50.45	53.65	55.05	55.40	56.28	56.58	56.90
29	-----	-----	-----	52.30	50.95	50.90	53.65	55.05	55.40	56.37	56.52	56.84
30	-----	-----	-----	52.50	51.20	50.85	53.75	55.10	55.35	56.53	56.50	56.78
31	-----	-----	-----	-----	51.45	-----	53.80	54.95	-----	56.58	-----	56.84

(Daily highest water level from recorder graph, 1947)

1	56.72	55.44	-----	53.88	-----	49.15	50.80	53.37	-----	56.21	56.84	56.65
2	56.72	55.11	-----	53.90	49.90	49.14	50.92	53.38	-----	56.36	56.67	56.65
3	56.75	54.90	-----	53.93	49.58	49.15	51.02	53.39	-----	56.49	56.60	56.63
4	56.81	54.80	55.70	53.90	49.19	48.92	51.16	53.40	54.83	56.58	56.62	56.56
5	56.80	54.73	55.48	53.84	48.89	48.71	51.28	53.36	54.90	56.46	56.60	56.54
6	56.74	54.66	55.41	53.69	48.68	48.46	51.37	53.62	54.96	56.52	56.61	56.46
7	56.83	54.72	55.43	53.54	48.59	48.17	51.48	53.74	54.93	56.67	56.62	56.37
8	56.90	54.91	55.35	53.39	38.52	-----	51.62	53.84	54.95	56.75	56.60	56.36
9	56.95	54.93	55.25	53.32	48.51	-----	51.75	53.91	55.04	56.89	56.54	56.26
10	56.95	55.04	55.16	53.24	48.56	-----	51.91	53.82	55.10	57.00	56.50	56.18
11	56.87	55.16	55.20	53.24	48.65	-----	52.00	53.88	55.12	57.10	56.51	56.14
12	56.70	55.28	55.25	53.12	48.79	46.73	52.08	53.98	55.19	57.12	56.54	56.10
13	56.58	55.34	55.36	52.86	49.00	46.59	52.13	54.02	55.20	57.06	56.52	56.06
14	56.51	55.32	55.40	52.65	49.20	46.48	52.22	54.12	55.00	57.19	56.53	56.07
15	56.52	55.39	55.21	52.51	49.43	46.44	52.34	54.20	54.98	57.27	56.54	56.08
16	56.43	55.36	54.97	52.43	-----	46.46	52.43	-----	54.96	57.36	56.47	56.12
17	56.31	55.36	54.85	52.46	49.76	46.70	52.53	54.21	55.06	57.45	56.44	55.98
18	56.12	55.39	54.78	52.48	49.72	47.09	52.63	54.22	55.14	57.47	56.43	55.73
19	55.93	55.43	54.70	52.39	49.66	47.47	52.72	54.27	55.27	57.38	56.44	55.62
20	55.86	55.54	54.71	52.66	49.68	47.83	52.73	54.34	55.38	57.28	56.47	55.51
21	55.86	55.64	54.72	52.56	49.54	48.02	52.74	54.35	53.85	57.32	56.46	55.47
22	55.89	55.76	54.71	51.95	49.27	48.39	52.80	54.36	55.15	57.35	56.60	55.43
23	55.95	55.69	54.61	51.81	49.12	48.83	52.83	54.36	55.36	57.30	56.56	55.50
24	56.03	55.69	54.57	51.63	48.92	49.23	52.88	54.37	55.54	57.37	56.56	55.48
25	55.92	55.82	54.53	51.49	48.80	49.57	52.93	54.40	55.70	57.41	56.60	55.42
26	55.80	55.90	54.50	51.18	48.73	49.69	52.98	54.42	55.86	57.29	56.60	55.42
27	55.76	55.94	54.41	50.81	48.82	-----	53.08	54.40	55.94	57.17	56.61	55.42
28	55.87	56.01	54.30	50.60	48.96	-----	53.15	54.43	55.90	57.15	56.61	55.41
29	55.95	-----	54.16	50.40	49.08	-----	53.27	54.52	55.90	57.03	56.64	55.36
30	55.99	-----	53.94	50.21	49.22	-----	53.32	-----	56.06	57.00	56.67	55.35
31	55.77	-----	53.88	-----	49.19	-----	53.34	-----	-----	56.94	-----	55.36

Table 7.--Water levels in observation wells, Vigo County, Indiana, Continued

Vigo 2--Continued

(Daily highest water level from recorder graph, 1948)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	55.60	57.36	56.16	52.17	53.28	54.01	55.08	54.69	55.88	58.84	-----	59.95
2	55.95	57.38	55.90	52.08	53.18	54.25	54.93	54.76	55.90	58.89	-----	60.00
3	55.82	57.49	55.70	51.82	53.16	54.50	54.80	54.83	56.00	58.74	-----	60.20
4	55.70	57.60	55.49	51.60	53.38	54.70	54.72	54.75	56.00	58.69	-----	60.20
5	55.48	57.70	55.31	51.54	53.70	54.77	54.69	54.63	56.05	58.78	57.40	60.05
6	55.38	57.85	55.20	51.57	53.93	54.62	54.67	54.58	56.09	58.98	58.30	60.00
7	55.26	57.87	55.15	51.72	54.12	54.61	54.72	54.50	56.17	58.89	57.35	60.10
8	55.21	57.81	55.18	51.60	53.89	54.81	54.83	54.48	56.32	59.11	57.00	60.25
9	55.30	57.91	55.30	51.30	53.48	54.98	54.88	54.48	56.47	59.22	56.95	60.40
10	55.55	57.94	55.50	50.90	53.28	55.10	53.72	54.50	56.65	58.12	58.65	60.55
11	55.67	58.02	55.77	50.63	53.27	55.23	54.94	54.42	56.86	59.09	59.00	60.60
12	55.73	58.06	56.05	50.59	53.31	55.31	55.03	54.57	57.06	59.21	59.15	60.50
13	55.82	58.14	56.36	50.75	53.30	55.16	55.08	-----	57.07	59.40	59.30	60.45
14	55.91	58.18	56.28	50.81	53.14	55.16	55.08	-----	57.27	59.53	59.40	60.60
15	-----	58.13	56.24	50.72	52.74	55.09	55.06	-----	57.48	-----	59.30	60.75
16	56.12	58.10	56.39	50.58	52.28	55.04	55.06	-----	57.73	-----	59.35	60.85
17	56.29	58.12	56.62	50.42	52.13	55.33	54.90	-----	57.91	-----	59.45	60.95
18	56.40	57.92	56.83	50.22	52.13	55.67	54.83	-----	58.13	-----	59.60	60.85
19	56.49	57.66	56.68	50.14	52.11	55.75	54.82	55.43	58.26	-----	59.75	60.40
20	56.64	57.38	56.32	50.20	52.19	55.63	54.85	55.46	58.19	-----	59.83	60.10
21	56.77	57.08	55.94	50.35	52.42	55.60	54.92	55.40	58.20	57.26	59.70	60.05
22	56.84	56.88	55.67	50.67	52.71	55.81	54.80	55.42	58.28	57.30	59.65	60.05
23	-----	56.84	55.54	51.00	52.68	56.02	54.68	55.42	58.32	-----	59.75	60.10
24	57.06	56.92	55.25	51.41	52.69	56.28	54.60	55.45	58.43	-----	59.85	60.25
25	57.04	56.96	54.80	51.60	52.92	56.41	54.59	55.52	58.40	-----	59.85	60.20
26	57.05	56.98	54.34	51.65	53.32	56.44	54.60	54.59	58.28	-----	59.85	59.95
27	57.07	57.03e	53.98	52.00	53.57	56.12	54.61	55.66	58.25	-----	59.90	59.85
28	57.17	56.99e	53.44	52.47	53.86	55.87	54.58	55.72	58.44	-----	59.80	59.95
29	57.23	56.57e	52.90	52.89	53.98	55.54	54.52	55.77	58.60	-----	59.75	60.15
30	57.31	-----e	52.34	53.12	53.89	55.30	54.54	55.75	58.74	-----	59.80	60.05
31	57.38	-----	-----	-----	53.89	-----	54.60	55.78	-----	-----	-----	59.80

(Daily highest water level from recorder graph, 1949)

1	59.40	-----	51.10	53.40	55.00	54.30	55.40	54.60	55.80	58.35	54.80	56.65
2	58.90	-----	51.20	53.10	54.95	54.65	55.20	54.60	55.95	58.10	54.85	56.85
3	58.70	52.05	51.30	53.10	55.05	54.90	55.05	54.65	56.25	58.05	54.85	56.85
4	58.65	52.05	51.50	53.30	55.15	55.05	55.05	54.60	56.15	58.15	54.85	56.70
5	58.65	52.15	51.80	-----	55.40	54.85	55.00	54.55	56.10	58.35	54.95	56.65
6	58.40	52.20	52.05	-----	55.55	54.80	55.20	54.50	56.30	58.50	54.95	56.85
7	58.20	52.35	52.10	53.55	55.35	55.00	55.50	54.45	56.55	58.45	54.95	57.00
8	57.85	52.60	52.25	53.75	55.10	55.20	55.70	54.45	56.80	58.25	55.00	57.15
9	57.40	53.00	52.40	53.80	55.10	55.45	55.80e	54.45	56.95	57.95	55.05	57.36
10	57.00	53.30	52.65	53.65	55.25	55.65	55.60	-----	57.05	57.85	55.05	57.35

Table 7.--Water levels in observation wells, Vigo County, Indiana, Continued

Vigo 2--Continued

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	56.85	53.50	52.80	53.60	55.50	55.60	55.60	54.60	56.95	57.80	55.05	57.20
12	56.60	53.65	53.00	53.80	55.70	55.40	55.65	54.65	56.90	57.50	55.10	57.15
13	56.40	53.65	53.05	54.00	55.90	55.35	55.70	54.75	57.10	57.00	55.05	57.25
14	56.20	53.70	53.00	54.30	55.80	55.50	55.70	54.80	57.25	56.50	54.95	57.35
15	56.00	53.60	53.15	54.50	55.60	55.75	55.65	54.70	57.45	56.10	54.90	57.40
16	55.60	53.30	-----	54.65	55.55	56.00	55.60	54.65	57.60	55.65	54.90	57.45
17	55.50	52.95	-----	54.55	55.70	56.00	55.55	54.75	57.60	55.50	54.95	57.40
18	55.45	52.60	53.50	54.50	55.95	55.80	55.55	54.85	57.40	55.50	55.05	57.20
19	-----	52.20	-----	54.70	56.20	55.50	55.50	54.95	57.35	55.55	55.25	57.15
20	-----	51.70	-----	54.85	56.40	55.20	55.50	55.05	57.50	55.55	55.25	57.25
21	-----	51.35	-----	55.05	56.30	55.20	55.55	55.05	57.65	55.55	55.25	57.40
22	-----	51.25	-----	55.20	56.00	55.25	55.50	55.10	57.85	55.35	55.30	57.40
23	-----	51.15	-----	55.10	55.90	55.30	55.35	55.15	57.95	55.20	55.45	57.05
24	-----	51.20	-----	54.90	55.70	55.40	55.20	55.20	58.00	55.05	55.70	57.55
25	-----	51.25	-----	54.85	55.40	55.40	55.05	55.25	57.85	54.95	56.00	55.90
26	-----	51.25	-----	55.05	55.10	55.25	55.00	55.30	57.80	54.90	56.20	55.40
27	53.00	51.05	-----	55.25	54.80	55.20	54.95	55.40	57.95	54.90	56.10	55.05
28	52.95	51.05	-----	55.35	54.40	55.40	54.80	55.35	58.10	54.85	56.10	54.75
29	-----	-----	-----	55.40	53.95	55.40	54.75	55.40	58.25	54.85	56.25	54.45
30	-----	-----	-----	55.25	53.90	55.40	54.70	55.55	58.40	54.80	56.40	54.20
31	-----	-----	53.65	-----	54.00	-----	54.65	55.65	-----	54.80	-----	53.90

(Daily highest water level from recorder graph, 1950)

1	53.45	44.75	44.65	44.65	42.60	47.15	47.50	50.05	53.65	52.85	54.90	55.10
2	53.30	44.80	44.90	44.35	42.70	47.40	47.40	50.30	53.25	52.75	55.05	55.05
3	53.30	44.90	45.05	44.25	42.90	47.30	47.35	50.50	52.75	52.90	55.15	54.65
4	53.05	44.95	45.00	43.20	43.20	47.00	47.55	50.80	52.45	53.00	55.25	54.50
5	52.35	44.90	44.95	44.10	43.25	46.95	47.80	51.00	52.40	53.20	55.20	54.35
6	51.50	44.95	44.95	44.05	43.30	47.30	47.95	50.85	52.35	53.35	55.15	54.30
7	50.50	45.20	45.10	43.80	43.25	47.70	48.15	50.80	52.50	53.50	55.25	54.15
8	49.45	45.55	45.25	43.35	43.20	48.00	48.25	51.00	52.65	51.95	55.35	54.05
9	48.65	-----	45.45	42.75	43.50	48.30	47.85	51.25	52.80	52.90	55.45	53.75
10	48.20	-----	45.55	42.45	43.90	48.15	47.75	51.25	52.55	53.20	55.50	53.20
11	47.85	-----	45.45	42.30	44.20	47.75	48.05	51.35	52.55	53.35	55.55	52.95
12	47.55	-----	45.40	42.30	44.55	47.70	48.50	51.40	52.75	53.45	55.40	-----
13	47.35	-----	45.35	42.35	44.75	48.00	48.80	51.10	52.95	53.60	55.30	-----
14	46.95	-----	45.50	42.40	44.50	48.30	49.10	51.05	53.20	53.55	53.35	-----
15	46.50	45.85	45.50	42.65	44.50	48.50	49.10	51.40	53.45	53.50	55.45	-----
16	46.00	45.60	45.45	42.30	44.80	48.65	48.65	51.60	53.60	53.45	55.50	-----
17	45.45	45.20	45.40	42.15	45.10	48.50	48.45	51.95	53.45	53.55	55.65	-----
18	45.20	44.80	45.50	42.20	45.45	47.80	48.90	52.25	53.40	53.75	55.80	-----
19	45.15	44.40	45.35	42.35	45.75	47.55	49.20	51.25	53.50	53.95	55.65	-----
20	45.10	44.10	45.25	42.50	45.80	47.60	49.40	52.00	53.70	54.05	55.65	53.00

Table 7.--Water levels in observation wells, Vigo County, Indiana, Continued

Vigo 2--Continued

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	45.21	43.95	45.30	42.85	45.50	47.60	49.55	51.95	53.75	54.20	55.50	53.10
22	44.95	43.90	45.25	43.10	45.45	47.65	49.40	52.20	53.55	54.10	55.30	53.15
23	45.00	44.00	45.45	43.00	45.80	47.70	49.25	52.50	53.10	54.05	-----	53.20
24	45.05	44.05	45.75	43.00	46.10	47.60	49.15	52.80	52.45	54.20	-----	53.20
25	45.25	44.20	45.60	43.30	46.05	47.25	49.35	53.05	52.20	54.30	-----	53.05
26	45.45	44.15	45.35	43.45	46.45	47.10	49.50	53.05	52.20	54.45	-----	53.05
27	45.50	44.20	45.30	43.45	46.50	47.25	49.60	52.90	52.30	54.50	-----	53.10
28	45.30	44.40	45.30	43.45	46.20	47.20	49.75	52.85	52.50	54.65	-----	53.20
29	45.10	-----	45.20	43.10	46.15	47.15	49.85	53.05	52.80	54.70	54.80	53.25
30	44.90	-----	45.05	42.70	46.50	47.40	49.90	53.30	53.00	54.65	54.95	53.35
31	44.85	-----	44.90	-----	-----	-----	49.85	53.55	-----	54.75	-----	53.40

(Daily highest water level from recorder graph, 1951)

1	53.30	53.80	50.05	51.50	51.25	52.75	53.30	53.25	52.25	52.95	55.10	55.60
2	53.25	54.10	50.15	51.40	51.35	52.80	53.30	53.25	52.15	53.05	55.15	55.35
3	53.25	54.30	50.15	51.40	51.45	52.60	53.45	53.15	52.15	53.10	55.10	55.30
4	53.10	54.30	49.95	51.40	51.60	52.55	53.60	53.00	52.25	53.15	55.05	55.40
5	52.90	54.20	49.90	51.55	51.65	52.70	53.80	52.90	52.30	53.25	55.00	55.50
6	52.65	54.30	50.05	51.70	51.40	52.90	53.90	52.85	52.30	53.35	55.20	55.55
7	52.30	54.45	50.35	51.70	51.40	53.10	53.85	52.80	52.40	53.30	55.40	55.45
8	52.15	54.55	50.55	51.55	51.60	53.25	53.70	52.75	52.35	53.35	55.50	55.25
9	52.10	54.65	50.75	51.50	51.80	53.25	53.55	52.75	52.30	53.50	55.65	55.00
10	52.05	54.75	50.75	51.60	52.05	53.00	53.70	52.75	52.30	53.70	55.65	54.90
11	52.05	54.75	50.55	51.70	52.20	52.95	53.55	52.70	52.40	53.85	55.40	54.90
12	52.20	54.75	50.55	51.65	51.85	53.00	53.40	52.60	52.45	54.00	55.40	55.00
13	52.40	54.85	50.75	51.50	51.45	53.15	53.15	52.50	52.45	54.10	55.45	55.10
14	52.35	54.85	51.00	51.15	51.30	53.35	52.60	52.50	52.50	53.90	55.40	55.20
15	52.30	54.85	51.35	50.70	51.25	53.55	51.95	52.45	52.50	53.90	55.30	55.20
16	52.45	54.80	51.60	50.50	51.20	53.50	51.85	52.40	52.50	54.10	55.20	55.10
17	52.55	54.50	51.45	50.50	51.20	53.15	51.85	52.40	52.50	54.30	55.00	55.05
18	52.75	54.10	51.00	50.45	51.25	53.15	52.05	52.35	52.60	54.45	54.80	55.15
19	53.00	53.90	50.80	50.45	51.40	53.30	52.20	52.30	52.70	54.65	54.75	55.30
20	53.00	53.85	50.80	50.45	51.25	53.50	52.45	52.25	52.75	54.60	54.85	55.40
21	52.60	53.60	50.85	50.30	51.20	53.60	52.55	52.30	52.85	54.50	55.10	55.50
22	52.50	52.85	50.90	50.25	51.40	53.75	52.50	52.30	54.85	54.50	55.20	55.55
23	52.50	52.05	50.95	50.25	51.65	53.65	52.35	52.35	52.85	54.70	55.30	55.50
24	52.60	51.15	51.05	50.45	51.90	53.40	52.65	52.30	52.85	54.85	55.25	55.50
25	52.70	50.40	50.95	50.80	52.15	53.40	52.95	52.30	52.90	54.95	55.05	55.35
26	52.95	50.15	50.95	51.10	52.25	53.45	53.20	52.30	53.00	55.05	55.00	-----
27	53.15	50.05	51.10	51.30	52.10	53.55	53.45	52.30	53.10	55.00	55.15	55.25
28	53.25	50.00	51.40	51.35	52.05	53.70	53.45	52.35	53.10	54.85	55.30	55.10
29	53.20	-----	51.60	51.25	52.20	53.65	52.40	52.35	53.05	54.80	55.45	54.95
30	53.35	-----	51.80	51.20	52.40	53.45	53.10	52.35	52.95	54.95	55.60	54.80
31	53.55	-----	51.80	-----	52.60	-----	53.10	52.30	-----	55.05	-----	54.55

Table 7.--Water levels in observation wells, Vigo County, Indiana, Continued

Vigo 2--Continued

(Daily highest water from recorder graph, 1952)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	54.30	51.05	52.05	50.05	47.60	46.20	46.75	49.95	50.40	49.70	52.00	53.85
2	53.95	50.75	52.10	50.30	47.70	46.10	47.00	50.05	50.40	50.75	51.95	53.95
3	53.65	50.50	52.00	50.50	47.85	46.25	47.25	50.00	50.35	50.20	52.00	54.05
4	53.35	50.55	52.10	50.70	47.95	46.50	47.45	49.95	50.40	50.15	52.00	54.20
5	53.05	50.55	-----	50.60	47.95	46.75	47.55	50.05	50.45	50.10	52.25	54.35
6	52.75	50.50	52.50	50.10	48.10	47.00	47.55	50.15	50.55	50.10	52.40	54.40
7	52.50	50.45	52.65	49.95	48.25	47.30	47.55	50.25	50.50	51.30	52.45	54.40
8	52.30	50.40	52.55	49.85	48.30	47.40	47.75	50.30	50.65	51.35	52.55	54.40
9	52.30	50.20	52.45	49.85	48.35	47.60	47.95	50.35	50.75	51.30	52.50	54.45
10	52.30	49.90	52.35	50.00	48.40	47.75	48.05	50.25	50.80	51.30	52.50	54.50
11	52.30	49.85	52.45	50.05	48.35	48.00	48.15	50.25	50.85	51.25	52.60	54.60
12	52.35	49.85	52.45	50.05	48.30	48.15	48.30	50.35	50.85	51.25	52.70	54.60
13	52.35	49.90	52.30	49.85	48.45	48.30	48.30	50.45	50.95	51.25	52.75	54.65
14	52.40	50.00	52.15	49.70	48.50	47.65	48.30	50.55	51.05	51.30	52.70	54.60
15	52.45	50.10	51.80	49.60	48.60	47.75	48.40	50.60	51.10	51.35	52.60	54.60
16	52.50	50.20	51.50	49.45	48.70	47.45	48.50	50.35	51.05	51.40	52.55	54.65
17	52.50	50.15	51.10	49.30	48.60	47.25	48.65	50.20	51.15	51.45	52.50	54.75
18	52.40	50.20	50.80	49.10	48.45	47.00	48.80	50.20	51.05	51.50	52.55	54.80
19	52.20	50.45	-----	48.90	48.30	46.85	48.95	50.20	51.05	51.45	52.60	54.90
20	52.05	50.55	50.65	48.60	48.15	46.80	48.85	50.20	51.00	51.40	52.70	54.95
21	53.95	50.80	50.55	48.50	48.15	46.75	48.85	50.25	50.95	51.50	52.90	54.95
22	-----	51.10	50.30	48.55	48.10	46.50	49.05	50.30	50.95	51.55	53.20	54.95
23	-----	51.45	50.00	48.70	-----	46.30	49.25	50.30	50.95	51.60	53.30	55.00
24	-----	51.45	49.90	48.75	-----	46.15	49.40	50.25	49.60	51.75	53.35	55.05
25	-----	51.45	49.90	48.70	-----	46.00	49.60	50.25	49.35	51.75	53.45	55.00
26	-----	51.50	49.95	48.60	-----	45.95	49.70	50.25	50.30	51.75	53.60	54.95
27	-----	51.65	50.05	48.40	-----	46.10	49.70	50.30	50.40	51.75	53.70	54.95
28	-----	51.80	50.10	48.10	47.40	46.35	49.65	50.35	50.35	51.80	53.75	54.90
29	-----	51.95	50.05	47.90	47.10	46.40	49.75	50.40	49.60	51.90	53.85	54.90
30	51.30	-----	49.95	47.65	46.80	46.50	49.85	50.40	49.60	51.95	53.85	54.90
31	51.25	-----	49.95	-----	46.40	-----	49.90	50.40	-----	52.00	-----	54.95

(Daily highest water level from recorder graph, 1953)

1	54.95	54.35	54.40	51.80	53.30	53.10	55.20	57.00	58.75	58.75	58.75	59.05
2	54.95	54.35	54.45	51.70	53.40	53.15	55.25	57.00	58.90	58.80	58.75	59.10
3	54.95	54.40	-----	51.55	53.30	53.30	55.30	56.95	59.00	58.85	58.75	59.20
4	54.95	54.45	54.30	51.30	53.25	53.40	55.30	56.95	59.05	58.90	58.85	59.30
5	54.95	54.50	54.05	51.10	53.40	53.55	55.20	57.10	58.90	58.85	59.00	59.30
6	55.00	54.50	53.90	51.10	53.45	53.70	55.15	57.10	58.80	58.85	58.95	59.35
7	55.00	54.55	53.55	51.10	53.45	53.70	55.10	57.20	58.80	58.90	59.05	59.30
8	55.00	54.60	53.40	50.00	53.50	53.70	54.90	57.35	58.80	58.90	59.05	59.40
9	55.00	54.60	53.15	50.50	53.60	53.80	54.80	57.30	58.85	58.95	59.05	59.50
10	55.05	54.65	53.05	52.00	53.60	53.90	54.85	57.30	59.00	58.90	59.10	59.45

Table 7.--Water levels in observation wells, Vigo County, Indiana, Continued

Vigo 2--Continued

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	55.05	54.70	52.95	52.10	53.55	54.05	55.00	57.45	59.05	58.75	59.20	59.50
12	55.05	54.70	52.95	52.05	53.70	54.20	55.00	57.50	59.05	58.70	59.20	59.45
13	55.05	54.75	53.05	52.00	53.75	54.30	55.00	57.55	58.90	56.50	59.30	59.35
14	55.10	54.70	53.10	52.15	53.85	54.25	55.05	57.65	58.90	57.65	59.25	59.30
15	55.05	54.70	52.95	52.30	53.85	54.20	55.25	57.75	58.80	57.90	59.25	59.35
16	55.10	54.70	52.80	52.40	53.95	54.25	55.55	57.75	58.85	57.85	59.25	59.50
17	54.95	54.70	52.70	52.50	53.95	54.40	55.80	57.75	58.80	57.85	59.25	59.55
18	54.15	54.75	52.60	52.60	53.90	54.50	56.00	57.85	58.80	57.80	59.30	59.65
19	54.85	54.75	52.55	52.60	53.95	54.60	56.00	58.00	58.80	57.75	59.35	59.75
20	54.75	54.75	52.30	52.60	54.05	54.70	56.05	58.10	58.65	57.95	59.35	59.80
21	54.70	54.80	52.15	52.70	54.05	54.75	56.15	58.20	58.65	58.40	59.30	59.75
22	54.65	53.45	51.95	52.80	54.05	54.70	56.25	58.35	58.65	58.45	59.20	59.85
23	54.60	53.35	51.80	52.90	53.75	54.80	56.40	58.30	58.65	58.50	59.20	59.90
24	54.50	54.50	51.65	52.90	53.55	54.90	56.50	58.30	58.70	58.60	59.25	59.95
25	53.75	54.50	51.65	53.00	53.50	55.05	56.55	58.40	58.65	58.55	59.30	59.95
26	54.40	54.50	51.45	53.00	53.45	54.20	56.40	58.55	58.60	58.55	59.40	59.90
27	54.40	54.50	51.35	53.00	53.25	55.00	56.40	58.65	58.55	58.70	59.30	59.80
28	54.35	54.50	51.35	53.05	53.20	55.00	56.50	58.75	58.55	58.75	59.15	59.80
29	54.35	-----	51.40	53.15	53.05	55.00	56.65	58.70	58.65	58.70	59.10	59.85
30	54.35	-----	51.35	53.20	53.05	55.15	56.75	58.60	58.75	58.75	59.05	60.05
31	54.35	-----	51.50	-----	53.05	-----	56.90	58.60	-----	58.80	-----	60.15

(Daily highest water level from recorder graph, 1954)

1	60.25	58.15	57.30	59.65	58.35	57.30	56.45	59.15	58.90	59.00	-----	58.20
2	60.15	59.80	57.60	59.75	58.30	56.00	56.55	59.10	58.95	59.00	-----	58.20
3	60.05	59.90	57.60	58.95	58.10	55.70	56.30	59.10	59.00	59.00	-----	58.20
4	60.00	60.00	59.15	59.35	56.80	55.50	56.15	59.25	59.00	58.95	-----	58.20
5	60.10	60.05	59.40	59.20	56.25	55.30	56.05	59.25	58.95	58.95	-----	58.15
6	60.30	60.05	58.30	59.25	56.10	55.15	56.30	59.20	58.95	58.95	-----	58.15
7	60.35	58.05	57.40	59.45	56.00	55.00	57.75	59.05	58.95	58.95	-----	58.15
8	60.40	57.90	57.30	59.60	55.80	55.00	56.85	58.95	59.05	58.95	-----	58.10
9	60.45	59.55	57.40	59.70	55.55	55.30	56.95	58.90	59.10	58.90	-----	58.10
10	60.35	59.90	57.50	59.80	55.50	55.90	56.55	58.90	59.10	58.80	58.05	58.20
11	60.30	59.95	57.55	59.50	55.40	57.15	56.45	58.85	59.10	58.70	-----	58.25
12	60.45	60.10	57.60	59.40	55.50	57.35	56.40	58.80	59.05	58.60	-----	58.35
13	60.45	60.10	58.30	59.30	55.50	57.35	57.15	58.75	59.00	58.45	-----	58.30
14	60.55	58.20	57.40	59.25	55.90	57.30	56.75	58.75	59.10	58.35	-----	58.35
15	60.55	57.95	57.25	59.20	55.65	57.45	58.40	58.55	59.10	58.15	-----	58.40
16	60.45	59.60	57.60	59.20	55.45	57.55	58.65	58.70	59.05	57.95	58.15	58.35
17	60.35	59.85	57.75	59.65	55.40	57.60	58.75	58.80	59.00	57.75	58.15	58.35
18	60.35	59.95	58.15	58.85	55.40	56.25	58.75	58.80	59.00	57.55	58.10	58.30
19	60.35	59.90	59.65	58.75	55.90	56.30	58.70	58.85	59.05	57.35	58.15	58.30
20	60.40	59.80	58.45	58.75	55.70	56.20	58.85	58.80	59.00	57.25	58.10	58.30

Table 7.--Water levels in observation wells, Vigo County, Indiana, Continued

Vigo 2--Continued

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	60.50	59.65	58.10	58.95	55.75	57.50	58.95	58.65	59.10	57.20	58.10	58.40
22	60.60	59.60	59.35	59.00	55.70	56.35	59.00	58.55	59.10	57.15	58.10	58.35
23	60.50	59.60	59.45	58.30	55.45	56.40	59.10	58.55	59.10	57.10	58.20	58.35
24	60.35	59.60	59.70	57.15	55.35	56.35	59.05	58.65	59.05	57.00	58.15	58.35
25	60.30	59.70	59.65	56.80	55.40	58.00	59.00	58.75	59.00	57.00	58.15	58.50
26	60.30	58.30	59.85	56.60	57.25	58.10	58.95	58.75	59.00	56.30	58.15	58.55
27	60.40	57.80	59.90	56.55	57.65	56.25	59.10	58.75	58.95	-----	58.20	58.60
28	60.50	57.45	59.50	56.60	57.75	56.05	59.10	58.85	59.00	-----	58.25	58.60
29	60.50	-----	59.35	58.10	56.60	56.40	59.10	58.80	59.00	-----	58.25	58.70
30	60.35	-----	59.40	57.45	56.05	56.40	59.20	58.80	59.05	-----	58.25	58.65
31	58.35	-----	59.60	-----	55.85	-----	59.20	58.80	-----	-----	-----	58.50

(Daily highest water level from recorder graph, 1955)

1	58.40	56.95	56.50	54.50	53.40	53.90	54.15	54.35	55.80	58.15	57.95	56.35
2	58.20	57.00	56.30	54.45	53.45	53.90	54.45	54.25	56.00	58.25	58.10	56.45
3	58.00	57.00	56.15	54.45	53.45	53.95	54.60	54.20	56.10	58.20	58.10	56.55
4	57.95	57.05	55.90	54.40	53.45	54.00	54.70	54.20	56.15	58.25	58.05	56.55
5	57.85	57.05	55.70	54.50	53.55	54.05	54.85	54.20	56.20	58.35	57.80	56.55
6	57.70	57.05	55.40	54.50	53.65	54.10	54.90	54.20	56.30	58.40	57.45	56.60
7	57.45	57.10	55.25	54.55	53.65	54.10	55.05	54.20	56.55	58.30	57.20	56.65
8	57.15	57.10	55.05	54.65	53.75	54.10	55.20	54.15	56.75	58.00	57.10	56.75
9	56.90	57.15	54.90	54.65	53.80	54.00	55.10	54.25	56.85	57.60	57.10	56.80
10	56.60	57.20	54.70	54.65	53.90	53.85	54.80	54.20	57.00	57.35	57.10	56.80
11	56.45	57.20	54.65	54.65	53.90	53.75	54.70	54.30	57.00	57.20	57.10	56.75
12	56.25	57.30	54.65	54.75	53.90	53.65	54.60	54.25	57.05	57.10	57.00	56.75
13	56.20	57.30	54.70	54.75	54.00	53.50	54.55	54.30	57.20	57.05	56.90	56.80
14	56.15	57.25	54.70	54.70	54.05	53.45	54.50	54.35	57.40	57.15	56.90	56.95
15	56.20	57.25	54.65	54.55	54.00	53.35	54.45	54.35	57.55	57.10	56.95	57.00
16	56.30	57.25	54.65	54.45	53.95	53.30	54.40	54.40	57.65	57.05	57.10	57.10
17	56.35	57.25	54.70	54.45	54.00	-----	54.30	54.50	57.75	57.00	57.00	57.10
18	56.40	57.20	54.75	54.40	54.05	-----	54.15	54.50	57.75	57.10	56.80	57.10
19	56.45	57.10	54.75	54.35	54.15	-----	53.90	54.50	57.75	57.40	56.55	57.10
20	56.50	57.10	54.65	54.25	54.35	-----	53.70	54.60	57.85	57.50	56.20	57.20
21	56.50	57.05	54.60	54.20	54.25	53.45	53.65	54.65	58.00	57.65	56.10	57.35
22	56.55	56.95	54.60	54.15	54.20	53.45	53.65	54.65	58.05	57.75	56.05	-----
23	56.60	56.85	54.70	54.00	54.20	53.50	53.70	54.70	58.15	57.55	56.05	-----
24	56.65	56.80	54.65	53.90	54.25	53.60	53.75	54.70	58.15	57.60	56.00	-----
25	56.65	56.70	54.50	53.90	54.20	53.65	53.70	54.70	58.25	57.75	56.00	-----
26	56.70	56.65	54.45	53.85	54.10	53.70	53.80	54.75	58.20	57.85	55.95	-----
27	56.70	56.60	54.40	53.75	54.10	53.75	54.00	54.95	58.20	58.00	55.90	-----
28	56.75	56.55	54.40	53.65	54.05	53.80	54.20	55.25	58.15	58.00	55.90	57.45
29	56.80	-----	54.45	53.50	54.00	53.85	54.40	55.35	58.25	57.95	56.00	57.55
30	56.85	-----	54.40	53.45	53.95	53.90	54.55	55.45	58.15	57.80	56.20	57.60
31	56.90	-----	54.50	-----	53.90	-----	54.45	55.65	-----	57.75	-----	57.50

Table 7.--Water levels in observation wells, Vigo County, Indiana, Continued

Vigo 2--Continued

(Daily highest water level from recorder graph, 1956)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	57.45	58.45	55.50	55.20	54.40	52.10	51.70	53.25	54.20	55.30	55.85	56.15
2	57.45	58.50	55.30	55.10	54.25	51.10	51.70	53.40	54.40	53.75	55.90	56.10
3	57.50	58.55	55.05	54.90	54.10	50.20	52.00	53.45	54.40	53.80	55.90	56.05
4	57.70	58.45	54.75	54.85	54.05	49.90	52.00	53.45	54.40	55.20	55.90	56.10
5	57.80	58.35	54.70	54.75	54.05	49.80	52.00	-----	54.45	55.30	55.85	56.10
6	57.85	58.35	54.75	54.70	54.00	49.80	52.00	-----	54.50	55.35	55.90	56.10
7	57.80	58.45	54.85	54.65	54.00	51.20	-----	-----	54.55	55.40	55.95	56.10
8	57.65	58.50	54.95	54.50	54.05	51.30	-----	53.50	54.55	55.40	55.95	56.15
9	57.65	58.55	55.00	54.45	54.05	51.40	-----	53.60	54.55	55.40	55.95	56.05
10	57.80	58.55	54.85	54.35	52.85	51.50	-----	53.65	54.65	55.45	55.95	56.00
11	57.95	58.50	54.65	54.35	52.60	51.75	52.15	53.75	54.75	55.40	55.95	56.05
12	58.00	58.35	54.60	54.40	52.45	52.10	52.15	53.75	54.75	55.40	55.90	56.05
13	58.05	58.25	54.65	54.40	52.30	52.25	52.25	53.85	54.95	55.50	55.95	56.10
14	58.00	58.20	54.80	54.35	52.20	52.35	52.25	53.90	55.10	55.60	56.00	56.10
15	57.90	58.25	54.95	54.35	52.05	52.50	52.35	53.95	55.05	55.60	56.00	56.10
16	57.90	58.25	55.05	54.35	52.00	52.60	52.35	53.95	55.05	55.65	56.00	56.05
17	58.00	-----	55.10	54.45	51.95	52.75	52.25	53.95	55.10	55.55	56.00	56.05
18	58.10	-----	55.05	54.45	51.95	52.80	52.05	54.00	55.10	-----	55.95	56.15
19	58.15	-----	55.05	54.55	51.95	52.90	52.00	54.05	55.10	-----	55.95	56.15
20	58.15	-----	55.15	54.65	51.90	53.00	52.35	54.10	55.15	55.80	55.95	56.10
21	58.10	-----	55.20	54.60	51.90	53.00	52.55	54.20	55.15	-----	55.95	56.10
22	58.00	56.85	55.20	54.55	51.95	52.55	52.70	54.30	55.20	55.50	56.00	56.05
23	58.00	56.75	55.20	54.60	51.95	52.10	52.75	54.35	55.20	55.70	56.00	56.00
24	58.15	56.70	55.10	54.60	51.90	51.70	52.80	54.40	55.20	55.80	56.00	-----
25	58.30	56.50	54.95	54.60	51.80	51.60	52.85	54.50	55.25	-----	56.00	-----
26	58.35	56.15	54.90	54.55	51.80	51.55	52.85	54.45	55.25	-----	-----	-----
27	58.40	55.95	55.05	54.50	51.75	51.60	53.00	54.50	55.30	55.90	-----	56.00
28	58.35	55.75	55.10	54.50	51.70	51.65	53.05	52.85	55.30	-----	56.05	56.00
29	58.20	55.65	55.20	54.45	51.65	51.65	53.15	52.60	55.30	55.80	56.20	56.00
30	58.20	-----	55.25	54.45	52.50	51.65	53.20	53.75	55.35	55.85	56.20	56.00
31	58.40	-----	55.25	-----	52.30	-----	53.20	54.15	-----	55.85	-----	56.00

(Daily highest water level from recorder graph, 1957)

1	56.05	55.45	54.75	54.65	47.15	47.00	44.80	45.95	51.00	52.35	51.95	52.20
2	56.05	55.55	54.55	54.65	47.10	47.00	44.40	46.45	51.05	52.30	52.10	52.25
3	56.00	55.55	54.40	54.55	47.00	47.00	44.15	46.80	51.05	52.40	52.15	52.35
4	56.05	55.55	54.35	54.20	47.00	47.10	43.95	46.90	51.15	52.45	52.25	52.50
5	56.10	55.65	54.35	53.75	47.05	47.20	43.85	47.20	51.15	52.50	52.40	52.70
6	56.15	55.60	54.40	53.20	47.15	47.35	43.70	47.75	51.30	52.65	52.55	52.80
7	56.15	55.65	54.45	52.70	47.40	47.50	43.55	47.75	51.45	52.70	52.65	52.95
8	56.15	55.65	54.45	52.35	47.65	47.80	43.50	48.00	51.50	52.75	52.75	52.90
9	56.15	55.65	54.50	52.05	47.85	48.05	43.50	48.20	51.65	52.85	52.75	52.70
10	56.15	55.50	54.55	51.70	48.05	48.20	43.50	48.40	51.75	52.90	52.70	52.50

Table 7.--Water levels in observation wells, Vigo County, Indiana, Continued

Vigo 2--Continued

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	56.15	55.40	54.55	51.35	48.20	48.35	43.50	48.50	51.90	52.90	52.70	52.25
12	56.20	55.25	54.60	50.95	48.10	48.15	43.50	48.70	51.90	52.90	52.70	52.05
13	56.25	55.15	54.65	50.45	47.90	47.85	43.60	48.85	51.95	52.85	52.65	51.95
14	-----	55.05	54.70	50.00	47.70	47.10	43.80	48.85	52.05	52.80	52.65	51.90
15	56.25	55.00	54.70	49.65	47.55	47.35	43.70	48.95	51.95	52.90	52.55	51.95
16	56.25	55.00	54.70	49.30	47.40	47.10	43.65	49.15	51.90	52.90	52.35	51.95
17	-----	55.00	54.70	49.15	47.35	46.85	43.65	49.35	52.00	52.90	52.05	52.05
18	-----	55.00	53.95	49.00	47.35	46.75	43.75	49.50	52.10	54.85	51.75	52.15
19	-----	55.05	54.80	48.95	47.35	46.90	43.85	49.60	52.20	52.80	51.65	51.90
20	-----	55.05	54.85	48.90	47.30	46.85	43.85	49.75	52.25	52.75	51.50	51.55
21	-----	55.10	54.90	48.70	47.15	46.85	43.90	49.95	52.25	52.80	51.50	51.10
22	56.25	55.05	54.90	48.55	47.00	46.90	44.00	50.05	52.20	52.95	51.55	50.45
23	56.10	55.15	54.85	48.35	46.85	46.90	44.20	50.25	52.05	53.00	51.60	50.00
24	55.90	55.10	54.80	48.15	46.70	47.00	44.45	50.35	52.00	52.90	51.65	49.60
25	55.80	55.15	54.80	47.90	46.55	47.15	44.35	50.50	52.00	52.65	51.70	49.15
26	55.65	55.10	54.80	47.70	46.45	47.20	44.30	50.55	52.00	52.40	51.75	48.85
27	55.45	55.00	54.75	47.55	46.40	47.40	44.30	50.60	52.05	52.05	51.85	48.60
28	55.45	54.85	54.80	47.40	46.50	47.20	44.45	50.65	52.15	51.85	51.90	48.50
29	55.45	-----	54.80	47.35	46.55	46.35	44.65	50.75	52.20	51.80	52.00	48.35
30	55.45	-----	54.75	47.25	46.65	45.45	44.85	50.45	52.25	51.75	52.10	48.25
31	55.45	-----	54.65	-----	46.85	-----	45.10	50.90	-----	51.85	-----	48.10

(Daily highest water level from recorder graph, 1958)

1	48.05	50.10	52.90	53.55	52.75	54.15	44.80	44.65	45.60	48.65	50.95	49.80
2	48.00	50.75	52.70	53.50	52.80	54.25	45.00	44.40	45.75	48.75	51.00	51.10
3	-----	50.85	52.50	53.60	52.85	54.30	45.30	44.15	45.90	48.80	50.95	51.75
4	-----	51.10	52.40	53.65	52.80	54.40	45.60	44.00	46.05	48.90	51.00	51.90
5	-----	51.30	51.30	53.70	52.65	53.90	45.85	43.70	46.15	49.00	51.10	52.00
6	-----	51.50	51.15	53.30	52.65	53.60	46.10	43.60	46.30	49.05	51.15	52.10
7	-----	51.50	52.00	53.00	52.55	53.40	46.30	43.40	46.40	49.05	51.25	52.00
8	49.10	51.70	51.95	52.85	52.65	53.25	46.45	43.45	46.45	49.15	51.30	51.95
9	49.30	51.75	51.85	52.75	52.60	53.25	46.60	43.50	46.60	49.20	51.30	52.25
10	49.45	51.80	51.85	52.70	52.55	53.70	46.15	43.55	46.80	49.30	51.20	52.55
11	49.65	52.00	51.85	52.70	52.50	53.60	46.70	43.65	47.05	49.35	51.30	52.65
12	49.85	52.20	52.55	52.75	52.50	52.75	46.40	43.85	47.25	49.45	51.50	52.80
13	49.90	52.40	52.95	52.70	52.55	51.70	46.15	44.00	47.40	49.50	52.20	52.90
14	50.00	52.50	53.15	52.65	53.10	50.20	45.90	44.25	47.50	49.65	51.80	52.80
15	50.10	52.40	52.85	52.65	53.15	48.65	45.55	44.44	47.55	49.70	51.75	52.40
16	50.30	52.35	52.60	52.80	53.45	47.10	45.35	44.30	47.65	49.75	51.55	52.35
17	50.40	52.35	52.50	52.80	53.75	45.95	45.05	44.15	47.70	49.85	51.35	52.35
18	50.55	52.50	53.05	52.85	53.90	45.40	44.80	43.95	47.80	50.00	51.20	52.45
19	50.60	52.65	53.40	52.90	54.00	45.05	44.55	43.85	47.65	50.05	51.05	52.45
20	50.60	52.70	53.50	52.75	54.00	44.85	44.30	43.70	47.65	50.10	51.00	52.50

Table 7.--Water levels in observation wells, Vigo County, Indiana, Continued

Vigo 2--Continued

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	50.60	52.80	53.65	52.55	54.00	44.70	44.05	43.60	47.90	50.20	50.95	52.50
22	50.50	52.95	53.75	52.40	54.15	44.55	43.80	43.60	47.95	50.00	50.90	52.40
23	50.40	52.90	53.80	52.40	54.15	44.50	43.50	43.60	48.00	50.45	50.80	51.95
24	50.30	52.85	53.80	52.55	54.15	44.60	43.50	43.75	48.05	50.55	50.75	51.65
25	50.25	53.00	53.90	52.65	54.10	44.65	43.60	43.90	48.25	50.65	50.35	51.40
26	-----	53.05	53.80	52.65	54.15	44.70	43.85	44.25	48.35	50.70	50.45	51.25
27	-----	53.05	53.75	52.60	54.20	44.65	44.20	44.55	48.45	50.65	50.25	51.20
28	-----	53.05	53.70	52.60	54.20	44.60	44.45	44.80	48.45	50.70	50.15	51.15
29	49.20	-----	53.70	52.65	54.25	44.55	44.75	45.05	48.50	50.80	50.15	51.10
30	49.30	-----	53.65	52.70	54.20	44.65	44.85	45.30	48.50	50.85	49.90	51.05
31	49.30	-----	53.55	-----	54.15	-----	44.85	45.50	-----	50.90	-----	51.00

(Daily highest water level from recorder graph, 1959)

1	50.95	50.25	45.80	46.85	45.45	46.50	47.60	48.20	49.45	49.90	50.65	53.80
2	50.90	50.00	45.90	46.95	45.00	46.60	47.55	48.20	49.45	49.90	50.65	53.85
3	50.95	49.85	46.05	46.90	44.35	46.65	47.55	48.25	49.50	49.95	50.75	54.00
4	51.45	49.75	46.25	46.75	43.95	46.85	47.60	48.25	49.55	50.00	52.45	54.10
5	-----	49.05	46.40	46.50	43.80	46.85	47.65	48.30	49.55	50.00	52.65	54.15
6	-----	49.55	46.45	46.40	43.65	47.05	47.45	48.45	49.55	50.05	52.85	54.15
7	52.10	49.65	46.60	46.35	43.50	47.05	47.60	48.40	49.50	50.15	53.00	54.10
8	52.20	49.60	46.50	46.20	43.60	46.85	47.60	48.30	49.50	50.20	53.10	54.15
9	52.30	49.55	46.45	46.25	44.00	46.95	47.75	48.30	49.35	50.15	53.05	54.25
10	52.35	49.45	46.50	46.30	44.30	47.05	47.85	48.30	49.35	50.15	53.15	54.35
11	52.30	49.10	46.95	46.90	-----	47.25	48.00	48.35	49.40	50.05	53.20	54.40
12	52.22	48.45	46.35	46.35	44.75	47.35	48.05	48.35	49.40	49.95	53.30	54.45
13	52.25	46.80	46.20	46.35	44.80	47.35	48.05	48.45	49.45	49.95	53.40	54.45
14	52.15	45.95	46.10	46.50	45.00	47.35	48.05	48.55	49.40	49.95	-----	54.35
15	52.25	45.15	46.05	46.60	45.15	47.35	48.10	48.60	49.45	49.90	53.30	54.30
16	52.40	44.55	45.95	46.75	45.25	47.55	48.15	48.65	49.50	50.00	53.15	54.20
17	52.50	44.30	45.90	46.95	45.35	47.75	48.15	48.65	49.55	50.10	53.10	54.10
18	52.45	44.15	45.90	47.05	45.35	47.90	48.20	48.70	49.55	50.05	52.95	54.10
19	52.40	44.85	45.85	47.20	45.50	47.95	48.20	48.80	49.60	50.00	53.05	54.15
20	52.45	45.00	45.85	47.20	45.80	48.00	48.20	48.90	49.65	50.05	53.10	54.15
21	-----	45.15	45.90	47.15	46.00	48.00	48.25	48.50	49.65	50.05	53.25	54.10
22	-----	45.10	45.95	46.95	46.25	48.10	48.35	48.95	49.70	50.10	53.30	54.15
23	-----	45.05	46.05	46.70	46.45	48.15	48.35	49.00	49.70	50.15	53.30	54.15
24	-----	45.30	46.25	46.60	46.35	48.05	48.35	49.05	49.75	50.25	53.35	54.25
25	-----	45.60	46.45	46.60	46.30	48.25	48.25	49.10	49.80	50.30	53.45	54.30
26	-----	45.60	46.60	46.70	46.35	48.30	48.15	49.20	49.85	50.30	53.50	54.25
27	51.50	45.70	46.75	46.70	46.45	48.35	48.20	49.30	49.85	50.45	53.65	54.30
28	51.25	45.75	46.95	-----	46.45	48.30	48.15	49.40	49.80	50.50	53.75	54.25
29	50.90	-----	46.90	46.20	46.40	48.05	48.15	49.40	49.85	50.55	53.70	54.25
30	50.75	-----	46.85	45.85	46.50	47.70	48.15	49.50	49.95	50.65	53.55	54.25
31	50.50	-----	46.80	-----	46.35	-----	48.15	49.50	-----	50.75	-----	54.15

Table 7.--Water levels in observation wells, Vigo County, Indiana, Continued

Vigo 3. (12/8W-29M1). John C. Auld. Terre Haute. NW $\frac{1}{2}$ SW $\frac{1}{2}$ sec. 29, T. 12 N., R. 8 W. Dug unused artesian well in sand lense in till, diameter 36 inches, depth 17.0 feet. Land-surface datum is 568.0 feet above msl. Highest water level is 0.28 below lsd, Feb. 16, 1956; lowest, 12.68 below lsd, Oct. 7, 1954. Records available 1945-59.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1945		Mar. 15	1.51	1947		Nov. 2	7.49
			2.18			9	7.49
June 15	1.15		2.52	Jan. 3	4.15	16	7.65
22	1.40	Apr. 5	3.49	10	3.88	23	7.75
29	2.75	12	3.75	17	2.67	Dec. 2	7.82
July 6	3.30	19	3.91	24	2.56	7	7.88
13	3.90	26	4.01	31	1.44	15	7.89
20	3.71	May 3	1.19	Feb. 7	3.17	22	7.81
27	4.10	10	2.49	14	3.71	29	7.68
Aug. 3	2.80	17	1.07	21	3.77		
10	3.15	24	2.75	28	3.93	1948	
17	2.94	31	2.60	Mar. 7	4.21		
24	3.91	June 7	2.80	14	2.49	Jan. 5	2.05
31	4.35	14	3.64	21	2.10	14	2.84
Sept. 7	5.05	21	3.91	28	2.60	19	3.57
14	5.24	28	4.23	Apr. 4	2.82	27	4.06
21	5.35	July 5	4.52	11	.71	Feb. 2	4.27
28	5.67	12	4.75	18	2.24	9	4.40
Oct. 4	1.84	19	5.16	25	.68	16	3.25
12	3.27	26	5.59	May 2	1.09	23	3.25
19	3.75	Aug. 2	5.89	9	2.90	Mar. 1	1.73
26	3.30	9	6.36	16	1.28	8	1.82
Nov. 2	2.80	16	6.63	June 1	2.77	15	1.11
9	1.60	23	6.94	8	1.50	22	1.03
16	1.93	30	7.28	15	3.11	29	1.35
23	.94	Sept. 6	7.60	22	2.68	Apr. 7	1.92
30	1.25	13	7.95	29	2.92	12	1.40
Dec. 7	2.04	20	8.35	July 6	3.78	19	2.97
14	3.15	27	8.67	13	4.10	24	3.72
22	3.40	Oct. 4	8.87	20	4.20	May 3	4.03
28	1.07	11	9.00	27	4.63	10	2.99
		18	9.07	Aug. 3	4.97	17	2.59
1946		25	9.12	10	5.35	25	3.68
		Nov. 1	9.15	17	5.62	June 2	4.09
Jan. 4	1.25	8	9.10	24	6.02	7	4.24
11	.55	15	9.06	31	6.49	14	4.55
18	2.75	22	9.19	Sept. 7	6.78	21	4.70
25	2.90	29	9.15	14	7.10	28	4.91
Feb. 1	2.71	Dec. 6	8.98	21	7.22	July 6	5.13
8	1.81	13	7.48	28	7.49	12	5.38
15	1.40	20	5.66	Oct. 5	7.67	19	5.58
22	1.44	27	5.30	12	7.78	26	5.29
Mar. 1	2.25			19	7.90	Aug. 9	6.12
8	2.62			26	7.90	16	6.40

Table 7.--Water levels in observation wells, Vigo County, Indiana, Continued

Vigo 3--Continued

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1948		1950		Nov. 16	3.00	Sept. 20	5.99
				23	1.06	27	5.65
Aug. 23	6.97	Jan. 2	1.32	30	2.75	Oct. 4	5.54
30	7.51	12	1.12	Dec. 7	1.25	11	5.18
Sept. 7	8.04	19	2.14	14	2.48	18	5.28
13	8.43	26	.94	21	3.26	25	3.23
20	8.85	Feb. 2	2.16	28	3.31	Nov. 1	3.36
27	7.84	9	1.07			8	1.24
Oct. 4	8.07	16	1.33	1951		15	1.14
11	8.29	23	1.00			22	2.28
18	7.77	Mar. 2	1.26	Jan. 4	1.20	29	1.75
25	7.27	9	2.60	11	2.26	Dec. 6	1.03
Nov. 1	7.22	16	1.38	18	.97	13	2.12
8	3.14	23	2.40	25	2.70	20	2.55
15	2.62	30	1.80	Feb. 1	3.00	27	1.27
23	2.65	Apr. 6	1.30	9	3.09		
29	2.88	13	2.60	15	1.90	1952	
Dec. 6	2.98	20	2.80	22	1.16		
13	3.29	27	3.00	Mar. 1	1.72	Jan. 3	1.23
20	1.77	May 4	2.50	8	2.37	10	2.04
27	3.04	11	2.87	15	1.10	17	1.03
		18	3.47	22	2.92	24	2.53
1949		25	3.73	29	2.33	31	2.68
		June 1	3.90	Apr. 5	3.04	Feb. 7	.66
Jan. 3	2.21	8	3.10	12	1.03	14	2.22
10	1.00	15	2.96	19	1.76	21	2.34
18	.54	22	1.39	26	2.76	28	2.74
24	.96	29	2.89	May 3	2.86	Mar. 6	2.59
31	2.68	July 6	1.99	10	1.29	13	1.82
Feb. 7	2.92	13	3.29	17	3.29	20	1.03
15	.93	20	3.13	24	3.68	27	2.26
21	2.29	27	3.75	31	3.85	Apr. 3	1.67
28	2.29	Aug. 3	4.03	June 7	3.87	10	1.82
Mar. 8	2.96	10	4.56	14	4.08	17	1.70
14	2.55	17	4.96	21	4.20	24	2.35
21	3.08	24	5.30	28	2.86	May 1	3.28
28	1.30	31	5.69	July 5	2.83	8	3.62
Apr. 4	2.26	Sept. 7	4.28	12	1.62	15	3.73
11	3.15	14	4.37	18	3.32	22	3.93
25	1.90	21	3.99	26	3.68	29	3.62
Nov. 17	2.55	28	3.20	Aug. 2	3.21	June 5	3.78
24	3.14	Oct. 5	3.66	9	3.92	12	3.80
Dec. 1	3.40	12	4.03	16	4.47	19	2.92
8	3.64	19	3.60	23	4.83	26	2.63
15	2.52	26	4.95	30	5.21	July 3	3.56
22	1.88	Nov. 2	4.17	Sept. 6	5.39	10	3.72
29	1.24	10	2.86	13	5.64	17	4.12

Table 7.--Water levels in observation wells, Vigo County, Indiana, Continued

Vigo 3--Continued

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1952		May 21	2.67	Apr. 1	9.56	Feb. 10	3.37
		28	3.28	2	9.22	17	3.94
July 24	4.63	June 4	3.59	15	8.99	24	2.82
31	5.12	11	3.79	22	8.83	Mar. 3	1.94
Aug. 7	5.63	18	4.03	29	8.66	10	2.67
14	6.03	25	4.18	May 6	8.35	17	2.64
21	5.72	July 2	3.03	13	8.15	24	2.17
28	6.19	9	2.55	20	7.63	31	2.72
Sept. 4	6.36	16	3.66	27	7.87	Apr. 7	3.64
11	6.76	23	3.93	June 3	7.72	14	1.08
18	6.93	30	4.63	10	7.74	21	2.79
25	6.89	Aug. 6	4.93	17	7.75	28	2.63
Oct. 2	7.08	13	5.38	24	7.52	May 5	3.75
9	7.27	20	5.96	July 1	7.52	12	3.95
16	7.39	27	6.72	8	7.54	19	4.09
23	7.57	Sept. 3	7.29	15	7.52	26	4.14
30	7.67	10	7.92	22	7.63	June 2	3.27
Nov. 6	7.82	17	8.38	29	7.94	9	3.09
13	7.93	24	8.99	Aug. 5	8.28	16	2.33
20	7.98	Oct. 1	9.28	12	8.40	23	3.63
28	8.12	8	9.53	19	9.17	30	3.87
Dec. 4	8.13	15	9.68	26	9.94	July 7	4.07
11	5.89	22	9.83	Sept. 1	11.24	14	4.19
18	5.13	29	9.92	9	11.82	21	3.89
25	4.94	Nov. 5	10.03	16	12.22	28	4.65
		12	10.16	23	12.29	Aug. 4	5.29
1953		19	10.28	30	12.35	11	5.76
		26	10.36	Oct. 7	12.68	18	6.31
Jan. 1	4.93	Dec. 3	11.38	14	12.53	25	6.92
8	4.53	10	10.83	21	11.22	Sept. 1	7.63
15	4.09	17	10.96	28	11.05	8	8.07
22	2.72	24	11.29	Nov. 4	11.74	15	8.78
29	2.28	31	11.17	11	11.83	22	9.37
Feb. 5	2.92			18	11.85	29	9.35
12	1.29	1954		25	11.94	Oct. 6	8.99
19	2.88			Dec. 2	12.07	13	5.64
26	2.63	Jan. 7	11.22	9	12.18	20	5.62
Mar. 5	1.05	14	11.35	16	12.26	27	5.83
12	1.97	21	11.38	23	12.31	Nov. 3	2.82
19	1.25	25	11.15	30	10.24	10	3.64
26	2.15	Feb. 4	10.86			17	1.33
Apr. 3	1.12	11	10.78	1955		24	1.21
9	1.23	18	10.87			Dec. 1	3.12
16	1.63	25	10.59	Jan. 6	2.12	8	3.14
23	2.64	Mar. 4	10.65	13	1.94	15	3.35
30	2.83	11	10.18	20	3.35	22	3.74
May 7	3.07	18	9.63	27	3.81	29	3.83
14	3.56	25	9.73	Feb. 3	4.18		

Table 7.--Water levels in observation wells, Vigo County, Indiana, Continued

Vigo 3--Continued

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1956		Apr. 21	1.00	Mar. 2	3.10	Jan. 25	3.47
			28		9	Feb. 1	3.29
Jan. 5	3.74	May 5	3.32		16	8	3.34
	12		12		23	15	1.39
	19		19		30	22	3.09
	26		26	Apr. 6	2.50	Mar. 1	1.65
Feb. 2	2.08	June 2	1.75		13	8	2.23
	9		9		20	15	3.29
	16		16		27	29	2.99
	23		23	May 4	3.93	Apr. 5	2.35
Mar. 1	2.11	July 9	3.42		11	12	3.03
	8		14		18	19	3.37
	15		21		25	26	3.70
	22		28	June 1	3.82	May 3	3.99
	29		28		8	10	4.50
Apr. 5	1.91	Aug. 4	2.32		15	17	4.64
	12		11		22	24	4.73
	19		18		29	31	2.30
	26		25	July 6	3.27	June 7	3.77
May 3	2.85	Sept. 2	5.15		13	14	3.26
	10		8		20	21	4.10
	17		15		27	28	4.40
	24		22	Aug. 3	1.57	July 5	4.69
	31		29		10	12	4.99
June 7	3.07	Oct. 6	6.27		17	19	5.33
	14		13		24	26	5.61
	21		20		31	Aug. 2	5.96
	28		27	Sept. 7	3.15	9	5.98
July 5	3.74	Nov. 3	6.08		14	16	6.34
	12		10		21	23	6.67
	19		17		28	30	7.02
	26		24	Oct. 5	3.95	Sept. 6	6.53
Aug. 2	3.29	Dec. 1	3.35		12	13	6.37
	9		8		19	20	6.77
	16		15		26	Oct. 4	7.28
	23		22	Nov. 2	4.35	11	5.39
	30		29		9	18	5.40
Sept. 13	4.53				16	25	5.43
		1958			23	Nov. 1	5.15
1957					30	8	3.57
		Jan. 5	3.19	Dec. 7	2.65	15	1.93
Mar. 3	2.40		12		14	22	3.05
	10		19		21	29	3.45
	17		26		28	Dec. 6	3.15
	24	Feb. 2	2.87			13	1.55
	31		9	1959		20	2.25
Apr. 7	1.33		16	Jan. 4	4.05	27	2.23
	14		23		11		
					18		

Table 7.--Water levels in observation wells, Vigo County, Indiana, Continued

Vigo 4. (13/9W-34C5). Spelerville Development Company. Terre Haute. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 34, T. 13 N., R. 9 W. Drilled unused water table well in glacio-fluvial sand and gravel, diameter 6 inches, depth 100.8 feet. Land-surface datum is 518.5 feet above msl. Recording gage installed July 19, 1955. Highest water level is 50.48 below lsd, June 21-22, 1958; lowest, 62.82 below lsd, Sept. 29, 1955. Records available: 1955-59.

(Daily highest water level from recorder graph, 1955)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	61.79	-----
2	-----	-----	-----	-----	-----	-----	-----	-----	62.04	-----	61.80	-----
3	-----	-----	-----	-----	-----	-----	-----	-----	-----	62.67	61.80	-----
4	-----	-----	-----	-----	-----	-----	-----	-----	-----	62.66	61.73	-----
5	-----	-----	-----	-----	-----	-----	-----	-----	-----	62.66	61.63	-----
6	-----	-----	-----	-----	-----	-----	-----	-----	-----	62.63	61.54	60.38
7	-----	-----	-----	-----	-----	-----	-----	-----	-----	62.59	61.40	60.37
8	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	61.31	60.37
9	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	61.25	60.39
10	-----	-----	-----	-----	-----	-----	-----	-----	62.27	62.17	61.19	60.40
11	-----	-----	-----	-----	-----	-----	-----	-----	62.30	62.03	61.18	60.42
12	-----	-----	-----	-----	-----	-----	-----	-----	62.33	61.92	61.17	60.43
13	-----	-----	-----	-----	-----	-----	-----	-----	62.35	61.82	61.17	60.47
14	-----	-----	-----	-----	-----	-----	-----	-----	62.39	-----	61.15	60.48
15	-----	-----	-----	-----	-----	-----	-----	61.36	62.43	-----	61.15	60.51
16	-----	-----	-----	-----	-----	-----	-----	-----	62.45	-----	61.14	60.54
17	-----	-----	-----	-----	-----	-----	-----	-----	62.48	-----	61.07	60.55
18	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	60.95	60.59
19	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	60.84	60.63
20	-----	-----	-----	-----	-----	-----	60.73	61.53	-----	-----	60.74	60.66
21	-----	-----	-----	-----	-----	-----	60.68	-----	-----	-----	60.63	60.69
22	-----	-----	-----	-----	-----	-----	60.67	-----	-----	-----	60.54	60.72
23	-----	-----	-----	-----	-----	-----	60.66	-----	62.67	-----	60.49	60.75
24	-----	-----	-----	-----	-----	-----	60.66	-----	62.69	-----	60.42	60.78
25	-----	-----	-----	-----	-----	-----	60.67	-----	62.71	-----	60.39	60.83
26	-----	-----	-----	-----	-----	-----	-----	61.76	62.74	-----	60.33	60.86
27	-----	-----	-----	-----	-----	-----	60.69	61.79	62.76	-----	60.31	60.88
28	-----	-----	-----	-----	-----	-----	-----	-----	62.78	-----	60.29	60.90
29	-----	-----	-----	-----	-----	-----	-----	-----	62.79	-----	60.29	60.90
30	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	60.94
31	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	60.97

(Daily highest water level from recorder graph, 1956)

1	60.99	61.78	59.18	58.54	59.27	-----	57.99	58.96	60.34	61.42	62.22	62.57
2	61.01	61.79	59.04	58.55	59.22	-----	58.05	59.00	60.38	61.46	62.23	62.57
3	61.07	61.80	58.91	58.46	-----	-----	58.09	59.05	60.41	61.51	62.25	62.58
4	61.11	61.80	58.77	58.48	59.16	-----	58.16	59.07	60.45	61.53	62.27	62.58
5	61.13	61.80	58.65	58.49	59.08	-----	58.21	59.10	60.49	61.56	62.29	62.58

Table 7.--Water levels in observation wells, Vigo County, Indiana, Continued

Vigo 4--Continued

Day:	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
6	61.16	61.80	58.63	58.49	59.04	-----	58.26	59.14	60.53	61.59	62.30	62.60
7	61.19	61.81	58.51	58.54	59.03	-----	58.29	59.17	60.57	61.63	62.35	62.60
8	61.23	61.77	58.45	58.55	59.02	-----	-----	59.21	60.62	61.65	62.38	62.59
9	61.25	61.76	-----	58.56	59.00	-----	-----	59.26	60.64	61.67	62.38	-----
10	61.28	61.73	-----	58.56	59.03	-----	59.42	59.30	60.68	61.69	62.40	62.48
11	61.30	61.68	-----	58.55	59.06	-----	58.46	59.36	60.72	61.71	62.41	62.45
12	61.33	61.62	-----	58.58	59.08	-----	58.51	59.40	60.76	61.73	62.44	62.42
13	61.36	61.52	58.10	58.61	59.10	-----	58.58	59.46	60.80	61.75	62.46	62.39
14	61.39	61.44	58.07	58.62	59.11	-----	58.62	59.51	60.85	61.78	62.47	62.35
15	61.42	61.38	-----	58.64	59.08	-----	58.66	59.56	-----	61.80	62.49	62.34
16	61.45	61.22	-----	58.67	59.10	58.03	58.69	59.60	-----	61.85	62.52	62.32
17	61.48	61.09	-----	58.74	59.08	58.10	58.67	59.66	-----	61.87	62.52	62.31
18	61.50	60.93	-----	58.78	59.12	58.17	58.63	59.68	-----	61.87	62.53	-----
19	61.51	60.76	-----	58.83	59.15	58.25	58.61	59.75	-----	61.92	62.54	-----
20	61.55	60.60	58.22	58.87	59.19	58.31	58.61	59.78	61.06	61.94	62.54	-----
21	61.57	60.43	58.23	58.91	59.22	58.36	58.62	59.81	61.12	61.95	62.56	62.25
22	61.61	60.27	58.26	58.96	59.25	58.37	58.65	59.88	61.14	61.97	62.56	62.23
23	61.63	60.10	58.28	59.01	59.29	58.18	58.68	59.93	61.16	62.02	-----	62.23
24	61.65	-----	58.32	59.06	59.32	58.00	-----	59.97	61.20	62.03	62.54	62.21
25	61.67	-----	58.38	59.11	59.30	57.94	58.69	60.00	61.22	62.06	62.54	62.19
26	61.70	-----	58.39	59.12	59.30	57.92	58.70	60.05	61.26	62.07	62.55	62.17
27	61.74	-----	58.42	59.16	59.30	57.93	58.72	60.09	61.29	62.10	62.55	62.16
28	61.75	-----	58.44	59.20	59.21	57.94	58.75	60.15	61.33	62.11	62.55	62.14
29	61.77	59.34	58.46	59.25	59.09	57.95	-----	60.19	-----	62.14	62.56	62.14
30	61.77	-----	58.48	59.30	58.96	57.97	-----	-----	61.29	62.16	62.57	62.12
31	61.77	-----	58.52	-----	58.80	-----	-----	60.29	-----	62.21	-----	62.13

(Daily highest water level from recorder graph, 1957)

1	62.13	-----	60.77	60.79	54.03	55.32	-----	54.46	57.68	59.30	59.75	59.30
2	62.14	-----	60.66	60.75	54.01	55.34	-----	54.61	57.75	59.34	59.75	59.32
3	62.14	-----	60.55	60.63	54.01	55.41	-----	54.71	57.83	59.38	59.75	59.33
4	62.16	-----	60.48	60.38	54.02	55.48	-----	54.84	57.90	59.43	59.77	59.38
5	62.17	61.47	60.43	59.86	54.12	55.57	-----	54.95	57.98	59.48	59.79	59.39
6	62.18	-----	60.40	59.26	54.32	55.66	-----	55.06	58.05	59.52	59.82	59.41
7	62.18	-----	60.38	58.68	54.51	55.77	-----	55.18	58.12	59.56	59.85	59.42
8	62.20	-----	60.38	58.29	54.69	55.85	-----	55.29	-----	59.61	59.85	59.34
9	62.21	61.40	60.38	57.81	54.85	55.95	-----	55.41	-----	59.65	59.91	59.21
10	62.23	61.38	60.38	57.29	54.98	56.04	52.11	55.52	58.36	59.73	59.94	59.06
11	62.23	61.35	60.38	56.77	55.14	56.12	52.15	-----	58.44	59.76	59.95	-----
12	62.25	61.24	60.42	-----	55.27	56.07	52.19	-----	58.52	59.79	59.95	-----
13	62.25	61.17	60.45	-----	55.25	56.03	52.30	-----	58.58	59.84	59.93	-----
14	62.26	61.09	60.48	-----	55.20	55.92	52.51	56.00	58.65	59.88	59.90	-----
15	62.27	61.05	50.55	-----	55.13	55.84	52.62	56.10	58.69	59.92	59.86	-----
16	62.29	61.01	60.56	-----	55.09	55.72	52.59	56.22	58.76	59.96	59.80	-----

Table 7.--Water levels in observation wells, Vigo County, Indiana, Continued

Vigo 4--Continued

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
17	62.30	60.97	60.58	-----	55.05	55.65	52.63	56.31	58.82	60.00	59.69	-----
18	62.32	-----	60.59	-----	55.09	55.61	52.70	56.43	58.88	60.04	59.60	-----
19	62.34	-----	60.61	54.96	55.17	55.58	52.86	56.53	58.93	60.07	59.50	-----
20	-----	-----	60.63	54.99	55.25	55.58	52.97	56.63	58.99	60.11	59.42	-----
21	-----	-----	60.64	54.95	55.21	55.63	53.06	56.72	59.03	60.14	59.36	-----
22	-----	-----	60.66	54.79	-----	55.73	53.21	56.82	59.08	60.16	59.30	-----
23	-----	-----	60.69	54.66	-----	55.80	53.39	56.93	59.10	60.15	59.28	-----
24	-----	-----	60.74	54.44	-----	55.88	53.56	56.99	59.12	60.12	59.26	55.76
25	62.05	60.94	60.78	54.25	-----	55.96	-----	57.09	59.14	60.08	59.25	-----
26	61.93	60.94	60.82	54.14	-----	56.04	-----	57.19	59.15	60.02	59.22	-----
27	61.81	60.90	60.83	54.09	54.86	55.73	53.76	57.28	59.20	-----	59.23	-----
28	61.70	60.85	60.83	54.08	54.91	-----	53.88	57.39	59.22	-----	59.24	-----
29	-----	-----	60.83	54.08	55.03	-----	54.02	57.45	59.23	-----	59.25	-----
30	-----	-----	60.84	54.08	55.15	-----	54.15	57.53	59.26	-----	59.28	-----
31	-----	-----	60.82	-----	55.27	-----	54.30	57.61	-----	-----	-----	-----

(Daily highest water level from recorder graph, 1958)

1	-----	56.50	58.46	58.93	59.49	59.90	51.36	53.68	54.81	57.14	58.61	-----
2	-----	56.57	58.44	58.94	59.52	59.95	51.56	53.60	54.92	57.20	58.64	-----
3	-----	56.66	58.40	58.96	59.55	59.99	51.80	53.51	55.04	57.25	58.69	-----
4	-----	56.75	58.38	58.98	59.53	60.02	52.13	53.42	55.14	57.31	58.72	58.08
5	-----	-----	58.37	58.98	59.48	60.06	52.46	53.34	55.26	57.39	58.77	58.08
6	-----	-----	58.38	59.01	59.44	60.11	52.76	53.26	55.35	57.47	58.72	58.11
7	-----	-----	58.41	59.05	59.41	60.14	53.01	53.22	55.45	57.50	58.86	58.12
8	-----	-----	58.43	59.06	59.37	60.18	53.26	53.26	55.54	57.54	58.89	58.13
9	-----	-----	58.46	59.06	59.33	60.21	53.51	53.28	55.63	57.59	58.93	58.15
10	-----	-----	58.50	59.07	59.31	60.15	53.72	53.31	55.73	57.65	58.98	58.20
11	-----	56.27	58.52	59.08	59.30	60.15	53.90	53.39	55.80	57.70	59.01	58.23
12	-----	57.36	58.55	59.09	59.30	59.92	54.01	53.48	55.89	57.73	59.04	58.25
13	-----	57.44	58.57	59.10	59.33	58.92	54.03	53.60	55.99	57.77	59.09	58.31
14	-----	57.53	58.60	59.11	59.34	56.89	54.00	53.70	56.07	57.81	59.12	58.34
15	-----	57.60	58.63	59.12	59.35	54.59	53.98	53.80	56.17	57.85	59.15	58.39
16	-----	57.68	58.66	59.15	59.38	52.80	53.95	53.85	56.25	57.89	59.18	58.42
17	-----	57.75	58.70	59.16	59.40	51.70	53.89	53.84	56.32	57.94	59.10	58.46
18	-----	57.85	58.74	59.18	59.43	51.06	53.81	53.82	56.40	57.99	59.02	58.50
19	-----	57.93	58.77	59.21	59.46	50.71	53.68	53.77	56.43	58.03	58.96	58.51
20	-----	58.00	58.81	59.24	59.49	50.52	53.47	53.70	-----	58.07	58.85	58.55
21	55.95	58.07	58.84	59.27	59.53	50.48	53.20	53.67	-----	58.10	58.78	58.59
22	55.99	58.13	58.88	59.29	59.56	50.48	52.99	53.67	-----	58.15	58.72	58.62
23	56.07	58.19	58.92	59.31	59.60	50.50	52.86	53.72	56.65	58.20	58.69	58.64
24	56.12	58.25	58.96	59.34	59.62	50.57	52.82	53.85	56.72	58.25	58.67	58.69
25	56.14	58.31	58.99	59.40	59.66	50.64	52.82	54.00	56.77	58.30	58.66	58.73
26	56.16	58.34	58.98	59.41	59.69	50.75	52.90	54.11	56.85	58.35	58.57	58.76
27	56.20	58.37	58.97	59.42	59.70	50.83	53.02	54.23	56.91	58.40	58.47	58.79
28	56.27	58.42	58.96	59.43	59.76	50.93	53.18	54.36	56.98	58.45	-----	58.82

Table 7.--Water levels in observation wells, Vigo County, Indiana, Continued

Vigo 4--Continued

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
29	56.31	-----	58.95	59.46	59.81	51.05	53.43	54.46	57.02	58.49	-----	58.87
30	56.38	-----	58.94	59.48	59.83	51.19	53.66	54.58	57.08	58.53	-----	58.90
31	56.44	-----	58.93	-----	59.84	-----	53.81	54.70	-----	58.57	-----	58.93

(Daily highest water level from recorder graph, 1959)

1	58.95	-----	52.01	54.98	55.06	56.05	-----	59.43	60.29	60.85	60.87	60.28
2	58.98	-----	52.22	55.00	54.42	56.14	-----	59.47	60.30	60.85	60.88	60.30
3	59.00	-----	52.45	55.06	53.77	56.22	-----	59.50	60.33	60.86	60.90	60.32
4	59.03	-----	52.69	55.01	53.42	56.31	-----	59.54	60.35	60.87	60.90	60.33
5	59.06	-----	52.85	54.98	53.21	56.39	-----	59.56	60.37	60.88	60.89	60.35
6	59.07	-----	53.02	54.91	53.17	56.49	58.28	59.59	60.40	60.89	60.89	60.37
7	59.10	-----	53.22	54.83	53.16	56.58	58.34	59.62	60.42	60.90	60.86	60.38
8	59.12	-----	53.34	54.80	53.16	56.68	58.40	-----	60.45	60.91	60.84	60.40
9	59.16	-----	53.45	54.70	53.17	-----	-----	-----	60.47	60.93	60.82	60.42
10	59.18	-----	53.54	54.72	53.25	56.82	58.50	-----	60.49	60.94	60.80	60.43
11	59.20	-----	53.60	54.80	53.43	56.90	58.46	-----	60.51	60.91	60.79	60.45
12	59.22	-----	53.64	54.86	53.63	56.97	58.61	-----	60.52	60.87	60.78	60.44
13	59.24	-----	53.68	54.94	53.88	57.03	58.66	-----	60.55	60.85	60.77	60.40
14	59.25	-----	53.64	55.02	54.09	57.09	58.70	-----	60.56	60.82	60.74	60.35
15	59.28	-----	53.71	55.10	54.26	57.16	58.77	-----	60.59	60.79	60.67	60.29
16	59.29	-----	53.76	55.19	54.39	57.22	58.81	-----	60.61	60.77	60.61	60.21
17	59.31	51.30	53.79	55.27	54.52	57.29	58.89	-----	60.64	60.76	60.53	60.12
18	59.30	51.17	53.77	55.36	54.64	57.36	58.93	-----	60.67	60.76	60.46	60.08
19	59.33	51.13	53.74	55.45	54.76	57.44	58.98	-----	60.69	60.75	60.38	60.05
20	59.30	51.09	53.77	55.53	54.94	57.52	59.02	-----	60.71	60.76	60.33	60.03
21	59.18	51.09	53.83	55.57	55.06	57.57	59.08	-----	60.73	60.77	60.32	60.02
22	59.00	51.08	53.97	55.52	55.19	57.66	59.13	-----	60.75	60.78	60.28	60.00
23	58.79	51.09	54.11	55.48	55.32	57.73	59.16	-----	60.78	60.79	60.25	-----
24	58.62	51.25	54.22	55.47	55.50	57.79	59.20	-----	60.80	60.80	60.26	-----
25	58.45	51.38	54.37	55.53	55.55	-----	59.23	-----	60.81	60.81	60.26	60.03
26	58.32	51.50	54.51	55.61	55.63	-----	59.26	-----	60.83	60.81	60.26	60.03
27	58.15	51.65	54.63	55.67	55.72	-----	59.30	-----	60.84	60.83	60.26	60.03
28	57.99	51.83	54.77	55.67	55.77	-----	59.32	60.17	60.85	60.84	60.26	60.04
29	57.32	-----	54.85	55.59	55.84	-----	59.34	60.21	60.85	60.84	60.27	60.01
30	-----	-----	54.90	55.48	55.91	-----	59.37	60.23	60.85	60.85	60.27	59.96
31	-----	-----	54.95	-----	55.99	-----	59.40	60.26	-----	60.85	-----	59.90

Vigo 5. (11/9W-34P1). Firman Equipment Corp. Youngstown. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 34, T. 11 N., R. 9 W. Drilled unused artesian well in sandstone, diameter 8 inches, depth 98.5 feet. Land-surface datum is 575.8 feet above msl. Recording gage installed July 21, 1955. Highest water level is 4.26 below lsd, Mar. 13-15, 1959; lowest, 12.76 below lsd, Nov. 20, 1956. Records available: 1955-59.

Table 7.--Water levels in observation wells, Vigo County, Indiana, Continued

Vigo 5--Continued

(Daily highest water level from recorder graph, 1955)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	-----	-----	-----	-----	-----	-----	-----	7.15	-----	-----	7.26	-----
2	-----	-----	-----	-----	-----	-----	-----	7.19	-----	-----	e7.01	-----
3	-----	-----	-----	-----	-----	-----	-----	7.23	-----	-----	6.64	-----
4	-----	-----	-----	-----	-----	-----	-----	7.27	-----	-----	6.40	-----
5	-----	-----	-----	-----	-----	-----	-----	7.32	-----	h8.11	6.27	-----
6	-----	-----	-----	-----	-----	-----	-----	7.37	-----	-----	6.27	-----
7	-----	-----	-----	-----	-----	-----	-----	7.40	h8.68	-----	6.27	h5.18
8	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	6.29	-----
9	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	6.33	-----
10	-----	-----	-----	-----	-----	-----	-----	7.40	8.83	-----	6.29	-----
11	-----	-----	-----	-----	-----	-----	-----	7.33	8.90	-----	6.29	-----
12	-----	-----	-----	-----	-----	-----	-----	7.31	8.98	h6.96	6.35	-----
13	-----	-----	-----	-----	-----	-----	-----	7.30	-----	-----	6.43	-----
14	-----	-----	-----	-----	-----	-----	-----	7.33	h9.14	-----	-----	h5.65
15	-----	-----	-----	-----	-----	-----	-----	7.39	-----	-----	-----	-----
16	-----	-----	-----	-----	-----	-----	-----	7.43	-----	-----	h6.10	5.74
17	-----	-----	-----	-----	-----	-----	-----	7.46	-----	-----	-----	-----
18	-----	-----	-----	-----	-----	-----	-----	7.49	-----	-----	-----	-----
19	-----	-----	-----	-----	-----	-----	-----	7.57	-----	h7.10	-----	-----
20	-----	-----	-----	-----	-----	-----	-----	7.61	-----	-----	-----	-----
21	-----	-----	-----	-----	-----	-----	-----	7.65	h9.55	-----	-----	-----
22	-----	-----	-----	-----	-----	-----	6.88	7.71	-----	-----	h5.29	5.99
23	-----	-----	-----	-----	-----	-----	-----	e7.72	-----	-----	-----	5.99
24	-----	-----	-----	-----	-----	-----	-----	7.83	-----	-----	-----	6.00
25	-----	-----	-----	-----	-----	-----	-----	7.88	-----	-----	-----	6.03
26	-----	-----	-----	-----	-----	-----	-----	7.94	-----	h7.25	-----	6.11
27	-----	-----	-----	-----	-----	-----	-----	7.99	-----	-----	-----	-----
28	-----	-----	-----	-----	-----	-----	-----	8.03	-----	-----	-----	h6.09
29	-----	-----	-----	-----	-----	-----	7.01	8.08	h8.91	-----	-----	-----
30	-----	-----	-----	-----	-----	-----	7.03	8.12	-----	7.22	h5.59	-----
31	-----	-----	-----	-----	-----	-----	7.09	8.20	-----	7.24	-----	-----

(Daily highest water level from recorder graph, 1956)

1	-----	-----	4.76	-----	5.48	5.69	6.50	7.97	9.50	11.06	12.34	12.51
2	-----	h5.69	4.77	5.06	5.46	5.69	6.55	8.01	9.56	11.08	12.39	12.53
3	-----	-----	4.85	4.97	5.47	5.69	6.62	8.06	9.63	11.13	12.44	12.54
4	h6.05	-----	4.97	-----	5.50	5.75	6.68	8.11	-----	11.19	12.50	12.57
5	-----	-----	5.03	-----	5.58	5.82	6.73	8.15	-----	11.27	12.53	12.61
6	-----	-----	5.05	-----	5.63	5.91	6.78	8.19	9.85	11.30	12.54	-----
7	-----	-----	5.09	-----	5.66	5.98	6.83	8.27	9.94	11.33	12.56	-----
8	-----	-----	5.19	-----	5.71	6.05	6.85	8.32	10.01	11.41	12.60	-----
9	-----	h4.88	-----	-----	5.73	6.14	6.88	8.38	10.08	11.45	12.64	-----
10	-----	-----	5.33	5.02	5.74	6.23	6.93	8.40	10.15	11.55	12.65	-----

Table 7.--Water levels in observation wells, Vigo County, Indiana, Continued

Vigo 5--Continued

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	h6.17	-----	-----	5.01	5.81	-----	6.99	8.45	10.19	11.59	12.66	10.39
12	-----	-----	-----	5.02	5.87	6.40	7.03	8.50	10.25	11.62	12.67	10.30
13	-----	-----	-----	5.08	5.93	6.47	7.04	8.52	10.29	11.66	12.74	10.27
14	-----	-----	-----	-----	5.99	6.53	7.06	8.53	10.37	11.67	12.74	10.22
15	-----	-----	-----	-----	6.08	6.59	7.11	8.54	10.33	11.71	12.74	10.17
16	-----	-----	h4.92	-----	6.09	6.65	7.12	8.61	10.33	11.75	12.74	10.17
17	-----	-----	-----	5.28	6.12	6.70	7.13	8.66	10.34	11.79	12.74	-----
18	h6.32	-----	-----	5.35	6.18	6.74	7.19	8.71	10.41	11.83	12.74	10.18
19	-----	-----	-----	5.45	6.22	6.78	7.24	8.78	10.43	11.88	12.75	10.17
20	-----	-----	-----	5.53	6.31	6.73	7.27	8.85	10.45	11.93	-----	10.07
21	-----	h4.69	-----	-----	6.34	6.69	7.31	8.91	10.54	11.97	-----	9.97
22	-----	-----	-----	-----	6.37	6.41	7.37	8.96	10.56	12.00	-----	9.90
23	-----	-----	-----	-----	6.41	6.23	7.43	8.99	10.61	12.04	-----	9.84
24	-----	-----	-----	5.81	6.47	6.18	7.46	9.06	10.68	12.11	-----	9.82
25	-----	-----	-----	5.84	6.55	6.18	7.56	9.15	10.73	12.16	-----	9.78
26	-----	-----	-----	5.81	6.54	6.19	7.60	9.20	10.80	12.18	-----	9.73
27	6.45	-----	5.07	-----	6.34	6.23	7.66	9.24	10.85	12.20	-----	9.69
28	6.36	-----	5.12	-----	6.05	6.31	7.72	9.28	-----	12.24	12.43	9.65
29	-----	4.72	5.19	-----	5.91	6.39	7.78	9.35	10.94	12.26	12.46	9.68
30	-----	-----	-----	5.55	5.84	6.44	7.85	9.41	10.97	12.29	12.49	9.65
31	-----	-----	-----	-----	5.72	-----	7.92	9.45	-----	12.31	-----	9.64

(Daily highest water level from recorder graph, 1957)

1	-----	7.86	-----	-----	5.68	5.63	5.16	5.59	6.52	7.35	7.17	5.75
2	-----	7.79	-----	h5.44	5.76	5.65	5.27	5.62	6.55	7.37	7.19	5.79
3	-----	7.71	-----	-----	5.87	5.69	5.69	5.40	5.53	6.56	7.41	5.76
4	9.70	7.72	6.36	-----	5.98	5.75	5.51	5.30	6.60	7.44	7.26	5.78
5	9.71	7.68	6.36	-----	6.08	5.82	5.61	5.25	6.68	7.48	7.29	5.79
6	9.72	7.60	6.38	-----	6.16	5.88	5.75	5.25	6.74	7.51	7.33	5.71
7	9.72	7.56	6.41	-----	6.26	5.93	5.85	5.32	6.76	7.52	7.29	-----
8	9.69	7.48	6.44	-----	6.30	5.98	5.95	5.41	6.79	7.55	7.18	-----
9	9.64	7.32	6.47	-----	6.36	6.01	5.96	5.51	6.83	7.60	7.07	5.14
10	9.65	7.20	6.54	-----	6.39	6.05	6.01	5.59	6.86	7.64	7.03	5.10
11	-----	7.11	6.52	-----	6.42	-----	6.04	5.67	6.92	7.68	6.99	5.13
12	9.55	7.01	6.54	-----	6.47	5.57	6.07	5.80	6.91	7.72	6.95	5.21
13	9.51	6.97	6.58	-----	6.52	5.31	6.01	5.90	6.92	7.75	6.78	5.26
14	9.50	6.97	6.56	-----	6.54	5.27	5.92	5.95	6.96	7.76	6.40	5.32
15	9.48	6.97	6.52	-----	6.55	-----	5.84	6.00	6.97	7.77	-----	5.42
16	9.50	6.97	6.44	5.21	6.62	-----	5.78	6.07	6.97	7.65	6.14	5.45
17	9.46	6.99	6.39	5.16	-----	-----	5.73	6.14	7.02	7.63	6.02	5.23
18	9.47	7.01	6.28	5.07	6.64	-----	5.72	6.20	7.07	7.64	5.72	4.82
19	9.53	7.01	6.22	5.04	6.46	-----	-----	6.25	-----	-----	5.63	4.57
20	9.55	7.05	6.22	5.04	6.16	5.25	-----	6.30	-----	7.68	-----	4.47

Table 7.--Water levels in observation wells, Vigo County, Indiana, Continued

Vigo 5--Continued

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	9.48	7.09	6.17	5.08	-----	5.34	-----	6.36	-----	7.70	-----	4.50
22	9.00	7.09	6.14	5.09	-----	5.46	-----	6.43	7.08	7.71	-----	4.52
23	8.52	7.12	6.13	5.10	5.35	5.59	-----	6.48	7.12	7.40	-----	4.53
24	8.20	7.11	6.14	5.12	5.22	5.71	-----	6.45	7.17	7.24	5.42	4.59
25	8.07	7.07	5.97	5.13	5.13	5.75	-----	6.45	7.20	7.16	5.47	4.63
26	8.03	6.85	5.57	5.21	5.09	5.81	-----	6.50	7.21	7.14	5.49	4.46
27	7.98	6.57	5.49	5.30	5.10	5.86	-----	6.54	7.27	7.14	5.53	4.42
28	7.93	6.41	-----	5.41	5.20	5.41	-----	6.49	7.31	7.15	5.57	4.38
29	7.91	-----	-----	5.51	5.30	5.16	-----	6.48	7.33	7.11	5.60	4.39
30	7.91	-----	-----	5.60	5.43	5.15	5.61	6.48	7.34	7.10	5.67	4.43
31	7.86	-----	-----	-----	5.55	-----	5.59	6.50	-----	7.11	-----	4.47

(Daily highest water level from recorder graph, 1958)

1	4.50	4.92	-----	5.29	5.60	5.70	-----	4.53	5.92	5.92	6.05	4.83
2	-----	4.99	-----	5.33	5.60	5.71	-----	4.37	5.96	5.96	6.05	4.76
3	4.73	5.06	5.93	5.37	5.55	5.74	-----	4.34	5.97	5.96	6.07	4.63
4	4.90	5.14	5.94	5.41	5.46	5.77	-----	4.34	5.97	5.96	6.08	4.56
5	5.01	5.18	5.93	5.41	5.12	5.81	-----	4.42	6.00	5.99	6.08	4.54
6	5.06	5.21	5.92	5.39	4.90	5.85	-----	4.58	6.02	6.04	6.11	4.57
7	5.09	5.26	5.88	5.39	4.82	5.88	-----	4.73	6.03	6.05	6.16	4.68
8	5.18	5.33	5.83	5.43	4.82	5.90	-----	4.87	6.08	6.05	6.13	4.74
9	5.25	5.41	5.81	5.43	4.84	5.90	4.80	5.01	-----	6.04	6.11	4.82
10	5.31	5.45	5.83	5.43	4.95	5.73	-----	5.11	-----	5.78	6.14	4.97
11	5.39	5.49	5.86	5.44	5.06	5.73	-----	5.21	6.18	5.66	6.21	5.06
12	5.47	5.55	5.89	5.50	5.15	5.73	-----	5.32	6.22	5.63	6.23	5.10
13	5.52	5.63	5.86	5.58	5.27	-----	-----	5.38	6.25	5.60	6.23	5.19
14	5.52	5.69	5.88	5.63	5.39	-----	-----	5.22	6.28	5.52	-----	5.29
15	5.56	5.72	5.91	5.66	5.47	-----	-----	5.01	6.31	5.48	-----	5.38
16	5.67	5.79	5.92	5.71	5.51	-----	-----	4.86	6.24	5.48	-----	5.43
17	5.69	5.86	5.94	5.76	5.42	-----	-----	4.85	6.02	5.49	5.44	5.47
18	5.71	5.92	5.96	5.80	5.41	-----	-----	4.86	5.88	5.54	5.08	5.53
19	5.75	5.97	6.00	5.82	5.42	-----	-----	4.95	5.80	5.61	4.99	5.55
20	5.72	6.02	6.01	5.83	5.48	-----	-----	5.08	5.75	5.63	4.97	5.58
21	5.34	6.07	6.03	5.82	5.54	-----	-----	5.16	5.75	5.68	4.97	5.69
22	5.03	6.07	6.05	5.79	5.62	-----	4.68	5.24	5.78	5.71	4.98	5.72
23	4.91	6.10	6.08	5.78	5.64	-----	4.68	5.33	5.81	5.75	5.03	5.72
24	4.79	6.09	5.83	5.75	5.71	-----	4.71	5.37	5.84	5.79	5.04	5.74
25	4.78	6.10	5.45	5.80	5.75	-----	4.77	5.46	5.86	5.83	5.03	5.79
26	4.75	6.07	5.25	5.80	5.81	-----	4.87	5.53	5.91	5.86	4.85	5.84
27	4.74	5.99	5.24	5.76	5.82	-----	5.00	5.60	5.91	5.90	4.79	5.84
28	4.74	5.98	5.23	5.69	5.80	-----	5.06	5.65	5.91	5.95	4.74	5.86
29	4.78	-----	5.24	5.68	5.77	-----	5.03	5.71	5.89	5.99	4.76	5.88
30	4.83	-----	5.25	5.62	-----	-----	5.01	5.77	5.89	6.05	4.83	5.94
31	4.89	-----	5.25	-----	5.72	-----	4.73	5.83	-----	6.06	-----	5.84

Table 7.--Water levels in observation wells, Vigo County, Indiana, Continued

Vigo 5--Continued

(Daily highest water level from recorder graph, 1959)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.75	-----	4.63	5.07	-----	5.95	-----	7.43	8.68	9.59	10.06	8.78
2	5.71	-----	4.61	4.74	-----	5.97	-----	7.49	8.67	9.62	10.06	8.78
3	5.70	-----	4.62	4.66	-----	6.01	-----	7.47	8.73	9.64	10.07	8.79
4	5.70	-----	4.71	4.64	-----	6.04	-----	7.43	8.79	9.70	9.97	8.77
5	5.76	-----	4.67	4.64	-----	6.05	-----	7.42	8.84	9.72	9.97	8.75
6	-----	-----	4.67	4.68	-----	6.06	-----	7.42	8.88	9.73	9.99	8.73
7	5.75	-----	4.69	4.77	-----	6.06	e6.67	7.42	8.94	9.75	10.05	8.72
8	5.76	-----	4.67	4.89	5.81	6.06	6.68	7.43	9.00	9.77	10.04	8.72
9	5.80	-----	4.50	5.00	5.85	e5.96	6.70	7.46	9.05	9.84	10.01	8.74
10	5.82	-----	4.40	5.05	5.83	5.97	6.74	7.52	8.96	9.85	9.97	8.73
11	5.85	-----	4.29	5.10	5.83	5.90	6.76	7.56	8.92	9.85	9.97	-----
12	5.88	-----	4.28	5.15	5.80	5.84	6.80	7.61	8.91	9.83	9.92	-----
13	5.88	-----	4.26	5.18	5.78	5.84	6.85	7.67	8.91	9.81	9.66	-----
14	5.72	-----	4.26	5.23	5.78	-----	6.90	7.73	8.91	9.81	9.48	-----
15	5.63	-----	4.26	5.30	5.79	-----	6.93	7.78	8.91	9.83	9.18	-----
16	5.52	-----	4.33	5.35	5.83	-----	6.95	7.83	8.97	9.86	9.07	-----
17	5.51	4.37	4.39	5.41	5.85	-----	6.95	7.82	9.07	9.88	9.05	-----
18	5.51	4.37	4.53	5.41	5.86	-----	6.95	7.85	9.13	9.91	8.93	-----
19	-----	4.43	4.65	4.98	5.86	-----	6.97	7.92	9.20	9.93	8.89	-----
20	-----	4.59	4.72	4.76	5.96	-----	7.10	7.97	9.23	9.95	8.82	-----
21	-----	4.77	4.79	4.75	5.91	-----	7.08	8.02	9.27	9.99	8.80	-----
22	-----	4.91	4.91	4.74	5.93	-----	7.12	8.07	9.33	9.99	8.78	-----
23	-----	4.91	5.01	4.74	5.94	-----	7.13	8.13	9.39	9.90	8.73	-----
24	-----	4.85	5.05	4.80	6.00	-----	7.16	8.20	9.44	9.89	8.71	6.35
25	-----	4.75	5.13	4.91	6.01	-----	7.20	8.27	9.49	9.89	8.73	6.36
26	-----	4.69	5.17	5.03	5.98	-----	7.25	8.32	9.47	9.90	8.76	6.34
27	-----	4.67	5.17	5.10	5.98	-----	7.28	8.39	9.49	9.97	e8.78	6.25
28	-----	4.67	5.22	5.11	5.97	-----	7.29	8.45	e9.52	10.02	8.80	6.12
29	-----	-----	5.25	5.14	5.95	-----	7.33	8.49	-----	10.02	8.81	6.02
30	-----	-----	5.24	-----	5.95	-----	7.37	8.56	-----	10.05	8.79	5.96
31	-----	-----	5.24	-----	5.95	-----	7.38	8.63	-----	10.06	-----	5.95

Vigo 6. (13/9W-34A1). Anaconda Aluminum Co., Terre Haute. NE $\frac{1}{2}$ NE $\frac{1}{2}$ sec. 34, T. 13 N., R. 9 W. Driven unused water table well in sand and gravel, diameter 6 inches, depth 138.0 feet. Land-surface datum is 510.7 feet above msl. Recording gage installed July 20, 1956. Highest water level is 42.43 below lsd, June 28, 1958; lowest, 50.84 below lsd, Nov. 9, 1956. Records available 1956-59. Affected by nearby pumping.

(Daily highest water level from recorder graph, 1956)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	-----	-----	-----	-----	-----	-----	-----	47.45	48.46	48.96	-----	50.13
2	-----	-----	-----	-----	-----	-----	-----	47.47	48.43	49.06	50.65	50.13

Table 7.--Water levels in observation wells, Vigo County, Indiana, Continued

Vigo 6--Continued

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
3	-----	-----	-----	-----	-----	-----	-----	47.49	48.42	49.06	50.19	50.14
4	-----	-----	-----	-----	-----	-----	-----	47.51	48.43	49.08	50.01	50.15
5	-----	-----	-----	-----	-----	-----	-----	47.53	49.02	49.10	-----	50.16
6	-----	-----	-----	-----	-----	-----	-----	47.54	49.18	49.11	-----	50.17
7	-----	-----	-----	-----	-----	-----	-----	47.57	49.28	49.13	-----	50.18
8	-----	-----	-----	-----	-----	-----	-----	47.59	49.34	49.15	50.76	50.17
9	-----	-----	-----	-----	-----	-----	-----	47.62	49.39	49.24	50.81	50.15
10	-----	-----	-----	-----	-----	-----	-----	47.65	49.06	49.24	50.33	50.12
11	-----	-----	-----	-----	-----	-----	-----	47.68	48.82	49.25	50.09	50.12
12	-----	-----	-----	-----	-----	-----	-----	47.69	48.77	49.26	50.06	50.12
13	-----	-----	-----	-----	-----	-----	-----	47.71	48.75	49.27	50.05	50.12
14	-----	-----	-----	-----	-----	-----	-----	47.74	48.75	49.28	50.04	50.12
15	-----	-----	-----	-----	-----	-----	-----	47.76	48.74	49.29	50.03	50.12
16	-----	-----	-----	-----	-----	-----	-----	47.78	48.75	49.31	-----	50.12
17	-----	-----	-----	-----	-----	-----	-----	47.80	48.75	49.33	-----	50.12
18	-----	-----	-----	-----	-----	-----	-----	47.83	48.77	49.94	-----	50.13
19	-----	-----	-----	-----	-----	-----	-----	47.85	48.78	50.12	-----	50.12
20	-----	-----	-----	-----	-----	-----	-----	47.87	48.80	49.58	-----	50.12
21	-----	-----	-----	-----	-----	-----	-----	47.89	48.81	49.55	50.07	50.12
22	-----	-----	-----	-----	-----	-----	-----	47.92	48.82	49.54	50.07	50.12
23	-----	-----	-----	-----	-----	-----	-----	47.94	48.84	50.16	50.07	50.12
24	-----	-----	-----	-----	-----	-----	-----	47.97	48.85	50.30	50.07	50.12
25	-----	-----	-----	-----	-----	-----	47.32	48.01	48.87	50.38	50.07	50.12
26	-----	-----	-----	-----	-----	-----	47.33	48.03	48.88	50.00	50.09	50.11
27	-----	-----	-----	-----	-----	-----	47.34	48.05	48.89	49.83	50.09	50.11
28	-----	-----	-----	-----	-----	-----	47.38	48.07	48.91	49.78	50.10	50.12
29	-----	-----	-----	-----	-----	-----	47.39	48.11	48.92	49.76	50.11	50.12
30	-----	-----	-----	-----	-----	-----	47.41	48.68	48.94	50.36	50.12	50.11
31	-----	-----	-----	-----	-----	-----	47.43	48.89	-----	-----	-----	50.11

(Daily highest water level from recorder graph, 1957)

1	50.12	50.06	49.61	49.26	45.83	44.90	44.09	45.45	47.66	48.55	49.42	48.78
2	50.10	50.03	49.60	49.25	45.64	44.89	43.90	45.58	47.74	48.61	49.46	48.78
3	50.10	50.01	49.59	49.20	45.52	44.89	43.70	45.69	-----	48.66	49.46	48.77
4	50.10	50.00	49.58	49.18	45.44	44.89	43.62	45.77	-----	48.71	49.48	48.78
5	50.10	49.99	49.56	-----	45.38	44.89	-----	45.82	48.00	48.76	49.37	48.78
6	50.11	49.98	49.56	-----	45.34	44.90	-----	45.88	48.07	48.78	49.22	48.78
7	50.11	49.97	49.56	-----	45.32	44.92	-----	45.95	48.14	48.70	49.15	48.78
8	50.11	49.95	49.52	-----	45.30	44.99	-----	46.02	48.20	48.66	49.13	48.80
9	50.12	49.94	49.50	-----	45.29	-----	-----	46.10	48.26	48.77	49.12	48.78
10	50.14	49.92	49.49	48.30	45.28	-----	43.17	47.16	48.33	48.85	49.11	48.76
11	50.15	49.89	49.47	48.15	45.28	-----	43.14	46.22	48.39	48.89	49.09	48.76
12	50.16	49.88	49.47	47.96	45.30	-----	43.28	46.30	48.45	48.94	49.06	-----
13	50.16	49.86	49.45	47.78	45.31	-----	-----	46.38	48.02	48.97	49.05	-----
14	50.17	49.85	49.43	47.57	45.31	45.12	-----	46.44	47.80	49.00	49.06	-----

Table 7.--Water levels in observation wells, Vigo County, Indiana, Continued

Vigo 6--Continued

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
15	50.18	49.83	49.43	47.35	45.31	45.10	-----	46.50	47.69	49.04	49.05	-----
16	50.18	49.82	49.41	47.16	45.60	45.09	-----	46.58	47.67	49.10	49.04	-----
17	50.18	49.80	49.40	46.97	45.60	45.08	-----	46.66	47.64	49.13	49.01	-----
18	50.19	49.80	49.39	46.80	45.60	45.07	44.26	46.73	47.97	49.18	48.98	-----
19	50.20	49.79	49.38	46.64	45.56	45.06	44.40	46.80	48.02	49.20	48.97	48.62
20	50.22	49.78	49.37	46.63	45.50	45.06	44.52	46.88	48.08	49.23	48.95	48.48
21	50.23	49.76	49.37	46.38	45.43	45.40	44.62	46.95	48.12	49.25	48.92	48.12
22	50.23	49.75	49.36	46.27	45.35	45.60	44.71	47.03	48.01	49.27	48.91	47.82
23	50.20	49.74	49.34	46.16	45.27	45.70	44.77	47.12	48.00	49.30	48.88	47.58
24	50.16	49.72	49.30	46.07	45.15	45.78	44.82	47.16	48.15	49.30	48.86	47.37
25	50.14	49.71	49.28	45.95	45.08	45.80	44.94	47.24	48.24	49.34	48.84	47.14
26	50.13	49.71	49.28	45.90	45.02	45.80	45.06	47.31	48.31	49.35	48.82	46.90
27	50.11	49.69	49.28	46.40	44.95	45.65	45.14	46.58	48.36	49.37	48.80	46.67
28	50.09	49.66	49.28	46.44	44.92	45.59	45.24	46.36	48.42	49.38	48.79	46.47
29	50.09	-----	49.27	46.40	44.91	44.86	-----	47.30	48.47	49.39	48.78	46.27
30	50.08	-----	49.26	46.37	44.91	44.36	45.30	47.48	48.51	49.39	48.78	46.08
31	50.06	-----	49.26	-----	44.91	-----	-----	47.58	-----	49.41	-----	45.92

(Daily highest water level from recorder graph, 1958)

1	45.79	46.74	48.53	-----	48.96	49.74	42.78	43.37	43.90	45.60	46.65	47.15
2	45.68	46.82	48.58	48.57	49.01	49.88	42.79	43.22	43.95	45.60	46.70	47.15
3	45.60	46.89	48.63	48.58	49.01	49.96	-----	43.11	43.95	45.70	46.70	47.10
4	45.53	46.85	48.60	48.59	48.72	50.00	-----	42.71	44.00	45.70	46.75	47.10
5	45.45	46.85	48.04	-----	48.89	50.04	-----	42.71	44.05	45.80	46.90	47.10
6	45.40	47.10	48.11	-----	48.97	50.08	-----	42.68	44.00	45.80	46.90	47.10
7	45.37	47.24	48.08	-----	48.99	50.10	-----	42.67	44.00	45.80	46.95	47.10
8	45.91	47.34	48.10	-----	48.76	50.14	-----	42.79	44.15	45.80	46.95	47.10
9	45.40	47.42	48.13	-----	-----	50.17	-----	42.78	44.25	45.80	47.00	47.15
10	45.44	47.52	48.16	-----	-----	-----	-----	-----	44.25	45.75	47.00	47.15
11	45.45	47.56	48.17	-----	-----	-----	-----	-----	44.50	45.75	47.05	47.15
12	45.46	47.62	48.19	-----	-----	-----	43.92	-----	44.50	45.75	47.10	47.15
13	45.50	47.68	48.20	-----	49.05	-----	43.92	43.00	44.60	45.85	47.10	47.15
14	44.96	47.75	48.22	-----	48.91	-----	43.97	43.00	44.60	45.80	47.15	47.15
15	45.56	47.80	48.24	-----	48.84	-----	44.16	43.10	44.75	45.90	47.15	45.15
16	45.60	47.86	48.25	-----	49.12	-----	44.19	43.15	44.75	45.85	47.20	47.15
17	45.64	47.92	-----	-----	49.19	-----	44.30	43.10	44.90	46.10	47.25	47.15
18	45.67	48.02	-----	48.78	49.22	-----	44.29	43.05	44.90	46.10	47.25	47.10
19	45.73	48.02	-----	48.79	49.24	-----	44.25	43.15	45.00	46.10	47.30	47.10
20	-----	48.06	48.35	48.80	49.25	-----	44.26	43.25	44.95	46.10	47.30	47.10
21	-----	48.14	48.37	48.81	49.27	-----	44.32	43.25	45.05	46.15	47.30	47.05
22	-----	-----	-----	48.80	49.37	-----	44.31	43.35	45.05	46.25	47.30	47.05
23	-----	-----	-----	48.84	49.53	-----	44.21	43.35	45.15	46.30	47.25	47.05
24	-----	-----	-----	48.85	49.61	-----	44.32	43.45	45.15	46.35	47.25	47.05
25	46.13	-----	-----	48.88	-----	-----	44.26	43.45	45.30	46.40	47.25	47.10

Table 7.--Water levels in observation wells, Vigo County, Indiana, Continued

Vigo 6--Continued

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	46.23	-----	-----	48.90	-----	-----	44.24	43.55	45.30	46.45	47.25	47.05
27	64.32	-----	-----	48.91	-----	42.50	44.12	43.55	45.40	46.45	47.20	47.05
28	46.40	48.46	-----	48.92	-----	42.43	44.09	43.65	45.40	46.50	47.20	47.05
29	46.46	-----	-----	48.94	-----	42.44	44.24	43.65	45.50	46.55	47.25	47.10
30	46.52	-----	-----	48.96	49.80	42.53	44.21	43.80	45.50	46.60	47.20	47.05
31	46.67	-----	-----	-----	49.28	-----	43.65	43.80	-----	46.60	-----	47.05

(Daily highest water level from recorder graph, 1959)

1	47.05	46.70	-----	44.00	44.85	44.85	46.10	47.35	47.95	48.55	-----	48.80
2	47.05	46.65	-----	44.05	44.80	44.95	46.15	47.35	48.00	48.55	-----	48.70
3	47.10	46.60	-----	44.05	44.70	44.95	46.20	47.35	48.05	48.55	-----	48.70
4	47.15	46.60	-----	44.15	44.60	45.05	46.25	47.40	48.05	48.55	-----	48.65
5	47.20	46.65	-----	44.15	44.50	45.05	46.25	47.40	48.05	48.60	-----	48.70
6	47.20	46.50	-----	44.20	44.40	45.10	46.30	47.45	48.05	48.60	-----	48.65
7	47.20	46.50	-----	44.20	-----	45.10	46.35	47.50	48.05	48.60	-----	48.65
8	47.25	46.45	-----	44.20	44.25	-----	46.40	47.50	48.05	48.60	-----	48.75
9	47.25	46.40	-----	44.25	44.20	45.25	46.45	47.50	48.15	48.60	-----	48.70
10	47.25	46.40	-----	44.35	44.15	45.25	46.50	47.50	48.15	48.65	-----	48.75
11	47.25	46.40	-----	44.35	44.10	45.25	46.50	47.55	48.15	48.60	-----	48.70
12	47.30	46.40	43.00	44.35	44.10	45.30	46.50	47.55	48.15	48.60	-----	48.75
13	47.30	45.35	43.05	44.40	44.10	45.35	46.55	-----	48.15	48.60	-----	48.70
14	-----	44.50	43.10	44.40	44.10	45.40	46.60	-----	48.15	48.60	-----	48.65
15	47.30	43.00	43.10	44.45	44.10	45.40	46.60	-----	48.25	48.60	-----	48.65
16	47.40	-----	43.20	44.45	44.15	45.45	46.65	-----	48.30	48.65	-----	48.65
17	47.40	43.02	43.25	44.50	44.15	45.50	46.75	-----	48.30	48.70	-----	48.60
18	47.40	-----	43.30	44.50	44.15	45.50	46.75	-----	48.30	48.65	-----	48.65
19	47.45	-----	43.35	44.45	44.25	45.55	46.75	-----	48.35	48.65	-----	48.65
20	47.45	-----	43.40	44.50	44.25	45.60	46.80	-----	48.35	48.65	-----	48.65
21	47.35	-----	43.45	44.55	44.30	45.65	46.80	-----	48.35	48.65	-----	48.65
22	47.15	-----	43.50	44.60	44.35	45.70	46.85	-----	48.35	48.65	-----	48.65
23	47.05	-----	43.55	44.60	44.45	45.70	46.90	-----	48.35	48.70	-----	48.65
24	47.00	-----	43.55	44.65	44.45	45.80	46.95	-----	48.35	48.70	-----	48.65
25	46.90	-----	43.60	44.65	44.50	45.80	46.95	-----	48.45	48.70	-----	48.60
26	46.90	-----	43.60	44.70	44.55	45.90	46.95	-----	48.45	-----	-----	48.60
27	46.80	-----	43.70	44.70	44.65	45.90	46.95	47.95	48.45	-----	-----	48.55
28	46.80	-----	43.80	44.75	44.70	45.95	47.05	47.90	-----	-----	48.70	48.55
29	46.80	-----	43.85	44.80	44.80	46.00	47.05	47.90	-----	48.73	48.70	48.55
30	46.75	-----	43.90	44.85	44.80	46.05	47.10	47.95	48.50	-----	48.70	48.55
31	46.70	-----	43.90	-----	44.80	-----	47.30	47.95	-----	-----	-----	48.55

PUBLICATIONS OF COOPERATIVE GROUND-WATER PROGRAM

Report

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

Bulletins

- No. 1 Memorandum concerning a pumping test at Gas City, Indiana. J. G. Ferris, Indiana Department of Conservation, Division of Water Resources. 1945.
- 2 A preliminary report of the ground-water levels of the State based on records of twenty-six observation wells for which long time records are available. Indiana Department of Conservation, Division of Water Resources. 1946 (Out of print).
- 3 Ground-water resources of St. Joseph County, Indiana. Part 1, South Bend area. F. H. Klaer, Jr., and R. W. Stallman. Indiana Department of Conservation, Division of Water Resources. 1948.
- 4 Ground-water resources of Boone County, Indiana. E. A. Brown. Indiana Department of Conservation, Division of Water Resources. 1949.
- 5 Ground-water resources of Noble County, Indiana. R. W. Stallman and F. H. Klaer, Jr. Indiana Department of Conservation, Division of Water Resources. 1950.
- 7 Water-level records of Indiana. Indiana Department of Conservation, Division of Water Resources. 1956.
- 8 Ground-water resources of Tippecanoe County, Indiana. Appendix, Basic Data. J. W. Rosenshein and O. J. Cosner. Indiana Department of Conservation, Division of Water Resources. 1956.
- 8 Ground-water resources of Tippecanoe County, Indiana. J. S. Rosenshein. Indiana Department of Conservation, Division of Water Resources. 1958 (1959).
- 9 Ground-water resources of Adams County, Indiana. F. A. Watkins, Jr., and P. E. Ward. Indiana Department of Conservation, Division of Water Resources. 1962.
- 10 Ground-water resources of northwestern Indiana. Preliminary Report: Lake County. J. S. Rosenshein. Indiana Department of Conservation, Division of Water Resources. 1961.
- 11 Ground-water resources of west-central Indiana. Preliminary Report: Greene County. F. A. Watkins, Jr., and D. G. Jordan. Indiana Department of Conservation, Division of Water Resources. 1961.

Publications of cooperative ground-water programs--Continued

Bulletins--Continued

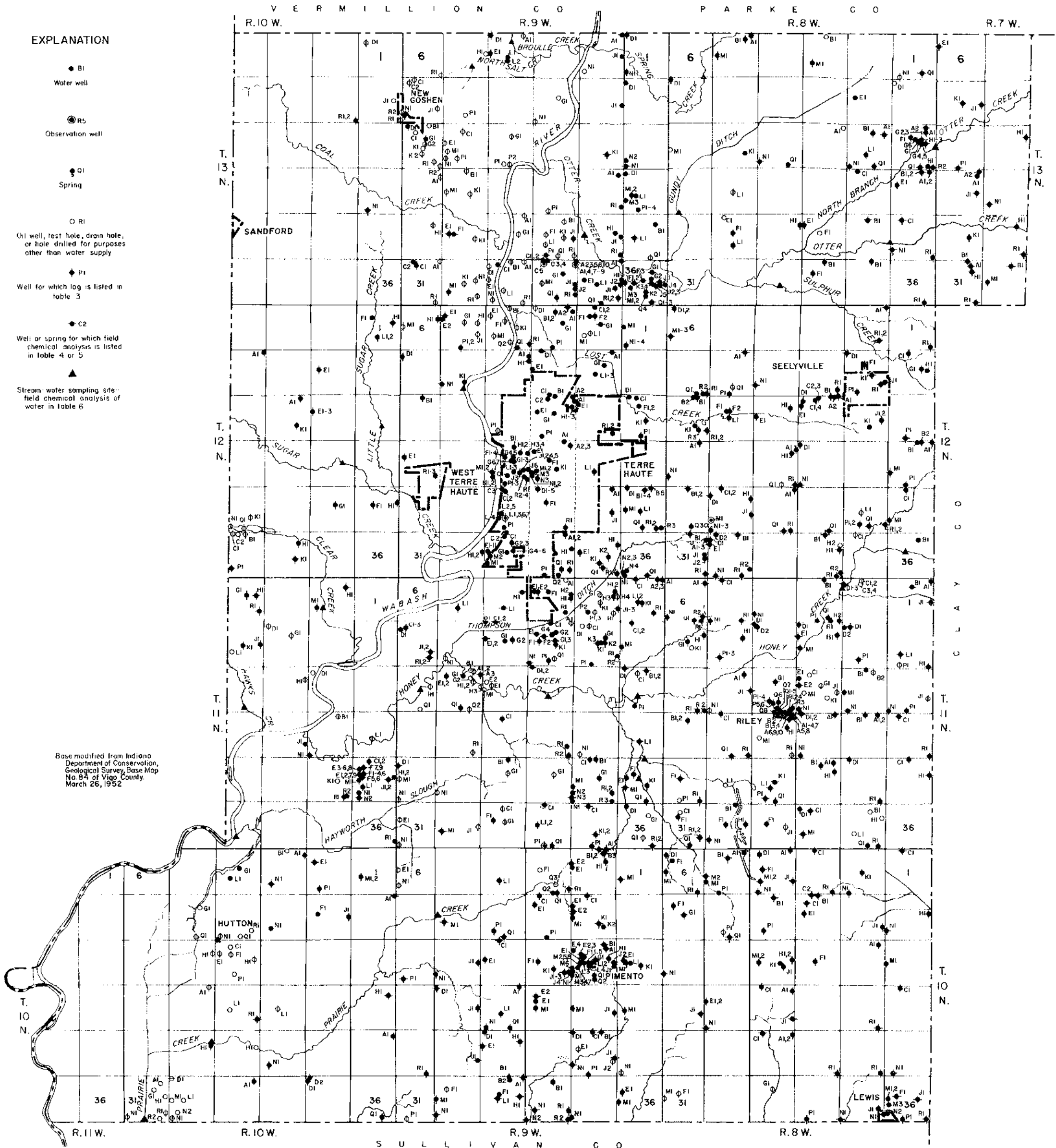
- 12 Ground-water resources of northwestern Indiana. Preliminary Report: Porter County. J. S. Rosenshein. Indiana Department of Conservation, Division of Water Resources. 1962.
- 13 Ground-water resources of northwestern Indiana. Preliminary Report: La Porte County. J. S. Rosenshein and J. D. Hunn. Indiana Department of Conservation, Division of Water Resources. 1962.
- 14 Ground-water resources of west-central Indiana. Preliminary Report: Sullivan County. F. A. Watkins, Jr., and D. G. Jordan. Indiana Department of Conservation, Division of Water Resources. 1962.
- 15 Ground-water resources of northwestern Indiana. Preliminary Report: St. Joseph County. J. S. Rosenshein and J. D. Hunn. Indiana Department of Conservation, Division of Water Resources. 1962.
- 16 Ground-water resources of west-central Indiana. Preliminary Report: Clay County. F. A. Watkins, Jr., and D. G. Jordan. Indiana Department of Conservation, Division of Water Resources. 1962.
- 17 Ground-water resources of west-central Indiana. Preliminary Report: Vigo County. F. A. Watkins, Jr., and D. G. Jordan. Indiana Department of Conservation, Division of Water Resources. 1963.

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EXPLANATION

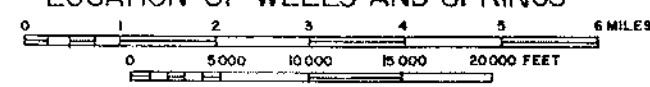
- BI
Water well
- RI
Observation well
- QI
Spring
- RI
Oil well, test hole, drain hole, or hole drilled for purposes other than water supply
- ◆ PI
Well for which log is listed in Table 3
- C2
Well or spring for which field chemical analysis is listed in Table 4 or 5
- ▲
Stream water sampling site; field chemical analysis of water in Table 6

Base modified from Indiana Department of Conservation, Geological Survey, Base Map No. 84 of Vigo County, March 26, 1952

DIAGRAM OF TOWNSHIP

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

MAP OF VIGO COUNTY, INDIANA SHOWING LOCATION OF WELLS AND SPRINGS



BY F. A. WATKINS, JR. AND O. G. JORDAN

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

SECTION LETTER SYMBOLS IN WELL-NUMBERING SYSTEM

EXPLANATION

Production from unconsolidated rocks



Water from sand and gravel of Pleistocene age overlain by Pleistocene lake sediments or Recent alluvium. Well depths range from 35 to 175 feet. Yields more than adequate for domestic and stock use. Area of industrial, irrigation, and municipal pumpage and large yields.



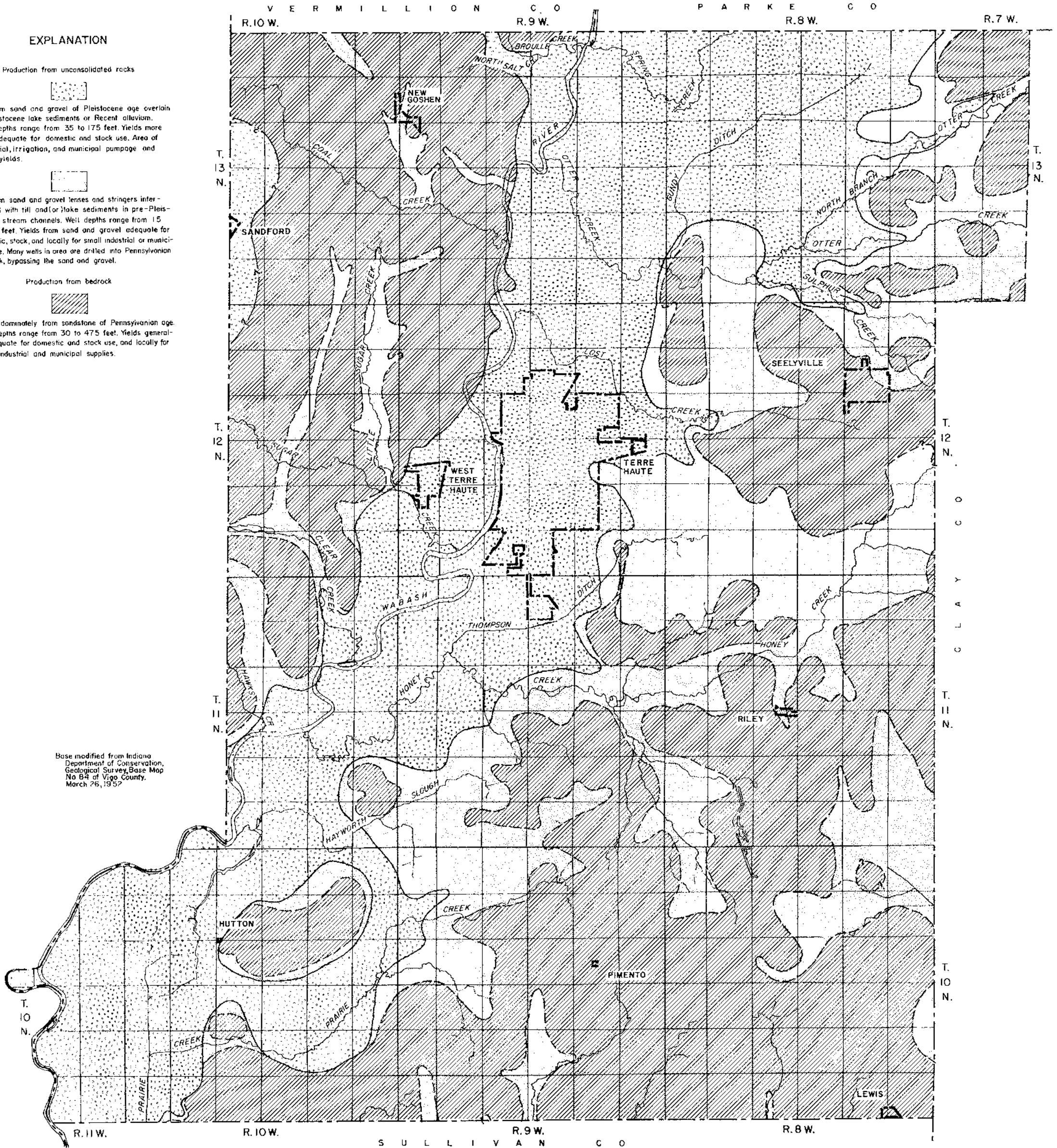
Water from sand and gravel lenses and stringers interbedded with till and/or lake sediments in pre-Pleistocene stream channels. Well depths range from 15 to 175 feet. Yields from sand and gravel adequate for domestic, stock, and locally for small industrial or municipal use. Many wells in area are drilled into Pennsylvanian bedrock, bypassing the sand and gravel.

Production from bedrock

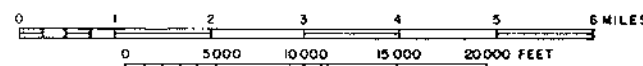


Water predominately from sandstone of Pennsylvanian age. Well depths range from 30 to 475 feet. Yields generally adequate for domestic and stock use, and locally for small industrial and municipal supplies.

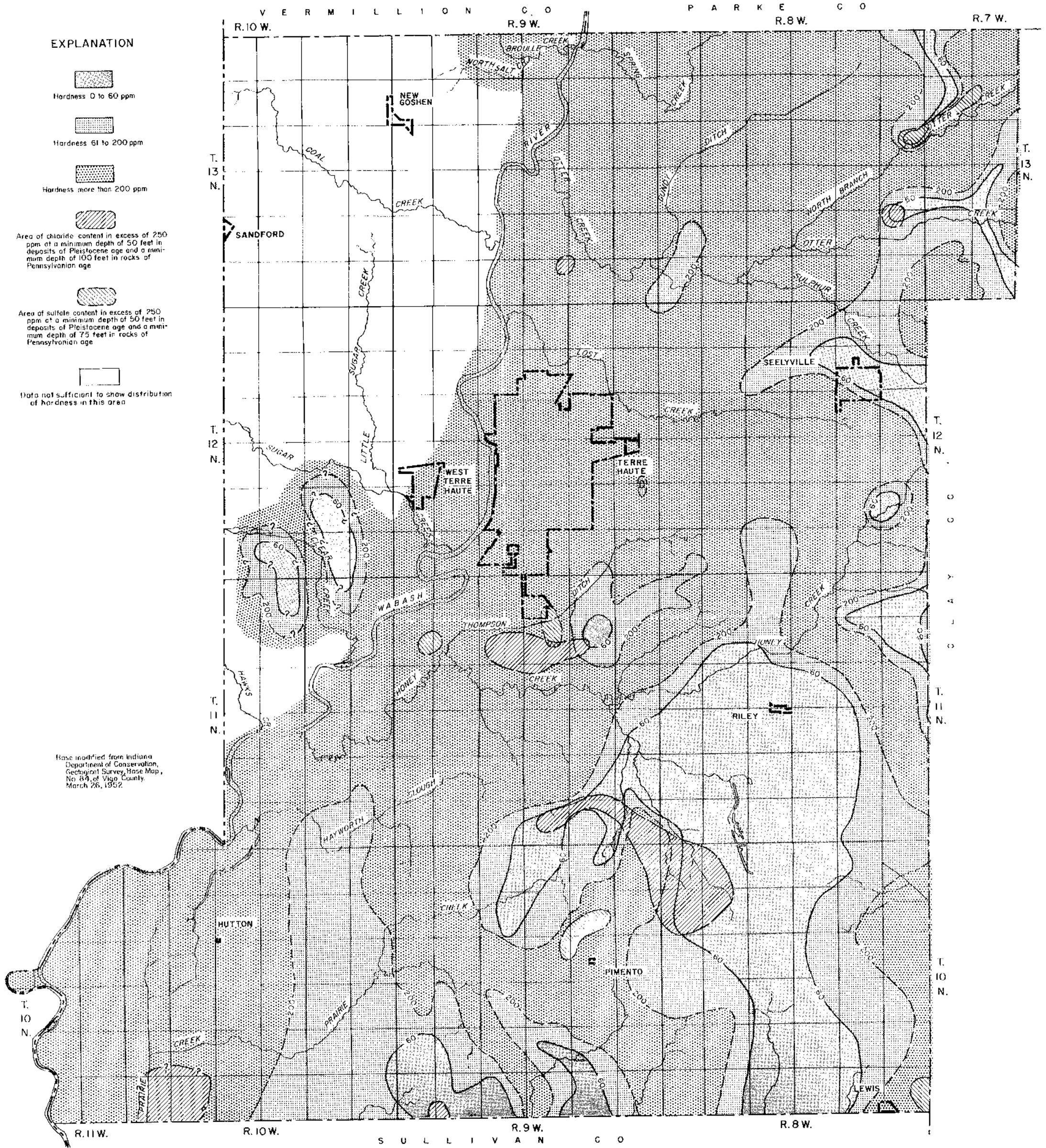
Base modified from Indiana Department of Conservation, Geological Survey, Base Map No 84 of Vigo County, March 26, 1957



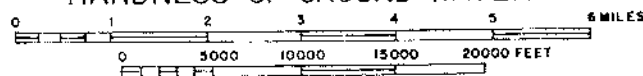
MAP OF VIGO COUNTY, INDIANA SHOWING
AVAILABILITY OF GROUND WATER



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



MAP OF VIGO COUNTY, INDIANA SHOWING
HARDNESS OF GROUND WATER



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

1961