

STATE OF INDIANA
INDIANA DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

BULLETIN NO. 10

GROUND-WATER RESOURCES
OF NORTHWESTERN INDIANA

Preliminary Report: Lake County



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

1961

INDIANA DEPARTMENT OF CONSERVATION

Donald E. Foltz, Director

BULLETIN NO. 10

OF THE

DIVISION OF WATER RESOURCES

Charles H. Bechert, Director

GROUND-WATER RESOURCES OF NORTHWESTERN INDIANA

Preliminary Report: Lake County

BY

J. S. Rosenshein

GEOLOGIST, U. S. GEOLOGICAL SURVEY

Prepared by the

GEOLOGICAL SURVEY

UNITED STATES DEPARTMENT OF THE INTERIOR

In cooperation with the

DIVISION OF WATER RESOURCES

INDIANA DEPARTMENT OF CONSERVATION

1961

CONTENTS

	Page
Abstract-----	1
Introduction-----	2
Purpose and scope-----	2
Location and areal extent-----	2
Well-numbering system-----	4
Acknowledgments-----	5
Data collection and processing-----	5
Geologic sources of ground water-----	6
Type of wells-----	7
Summary-----	8
Records-----	8
Selected bibliography-----	9
Publications of cooperative ground-water program-----	227
Index-----	229

ILLUSTRATIONS

(All plates in pocket)

	Page
Plate 1. Map of Lake County, Ind., showing location of wells and test holes-----	
2. Map of Lake County showing availability of ground water-----	
3. Map of Lake County showing generalized quality of water in rocks of Middle Silurian age-----	
4. Map of Lake County showing generalized quality of water in sand and gravel deposits of Pleistocene age-----	
Figure 1. Map of Indiana showing location of area covered by this report, areas under investigations, and areas covered by reports published under the cooperative program-----	3
2. Sketch showing well-numbering system-----	4

TABLES

	Page
Table 1. Grain size and equivalent screen openings-----	7
2. Records of wells and test holes in Lake County, Ind.-----	10
3. Selected logs of wells and test holes in Lake County-----	41
4. Field chemical analyses of water from wells in Lake County-----	208
5. Water levels in observation wells in Lake County-----	216

GROUND-WATER RESOURCES OF NORTHWESTERN INDIANA

Preliminary Report: Lake County

By J. S. Rosenshein

ABSTRACT

Lake County, in northwestern Indiana, has an area of about 517 square miles. Consolidated rocks of Middle Silurian age and unconsolidated rocks of Pleistocene age are the chief sources of ground water for domestic and stock, industrial, and public supplies. Water from these sources varies greatly in chemical quality, and field-chemical analyses show that locally the concentration of iron and sulfate exceed the maximum concentration recommended in the standards of the U. S. Public Health Service for drinking water.

This preliminary report contains tabulated records of about 1,400 wells and test holes giving information about well construction, water level, condition of occurrence, and characteristic of water-bearing material; selected logs for about 525 wells and test holes giving driller's description of materials penetrated and author's interpretation of their geologic ages; results for about 175 field chemical analyses giving hardness of water and the bicarbonate, carbonate, chloride, iron, and sulfate content; and water levels in 11 observation wells indicating the magnitude of short-term and long-term water-level fluctuations in the consolidated and unconsolidated rocks. These basic data include much of the material to be used in an interpretive report on the ground-water resources and geology of the area.

A base map of Lake County shows the location of each well or test hole listed in this report. Additional maps show the availability of ground-water in the county and generalized quality of water with respect to the hardness and iron and sulfate content of water in the rocks of Middle Silurian and Pleistocene ages.

INTRODUCTION

Purpose and Scope

An investigation of the ground-water resources and geology of 10 counties in northwestern Indiana has been in progress since June 1954. This investigation is being made by the U. S. Geological Survey in cooperation with the Division of Water Resources, Indiana Department of Conservation, as a part of a broad program of these agencies to inventory and evaluate the ground-water resources of Indiana.

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

The investigation was made under the general direction of A. N. Sayre and P. E. LaMoreaux, successive Chiefs of the Ground Water Branch of the Geological Survey, and under the immediate supervision of C. M. Roberts, District Geologist of the Ground Water Branch for Indiana.

Location and Areal Extent

Lake County is in the extreme northwestern part of Indiana (fig. 1). The county is a somewhat elongated rectangle with irregularly shaped northern and southern boundaries and includes about 517 square miles. It is bounded on the north by Lake Michigan, on the south by Jasper and Newton Counties, on the west by the State of Illinois, and on the east by Porter County.

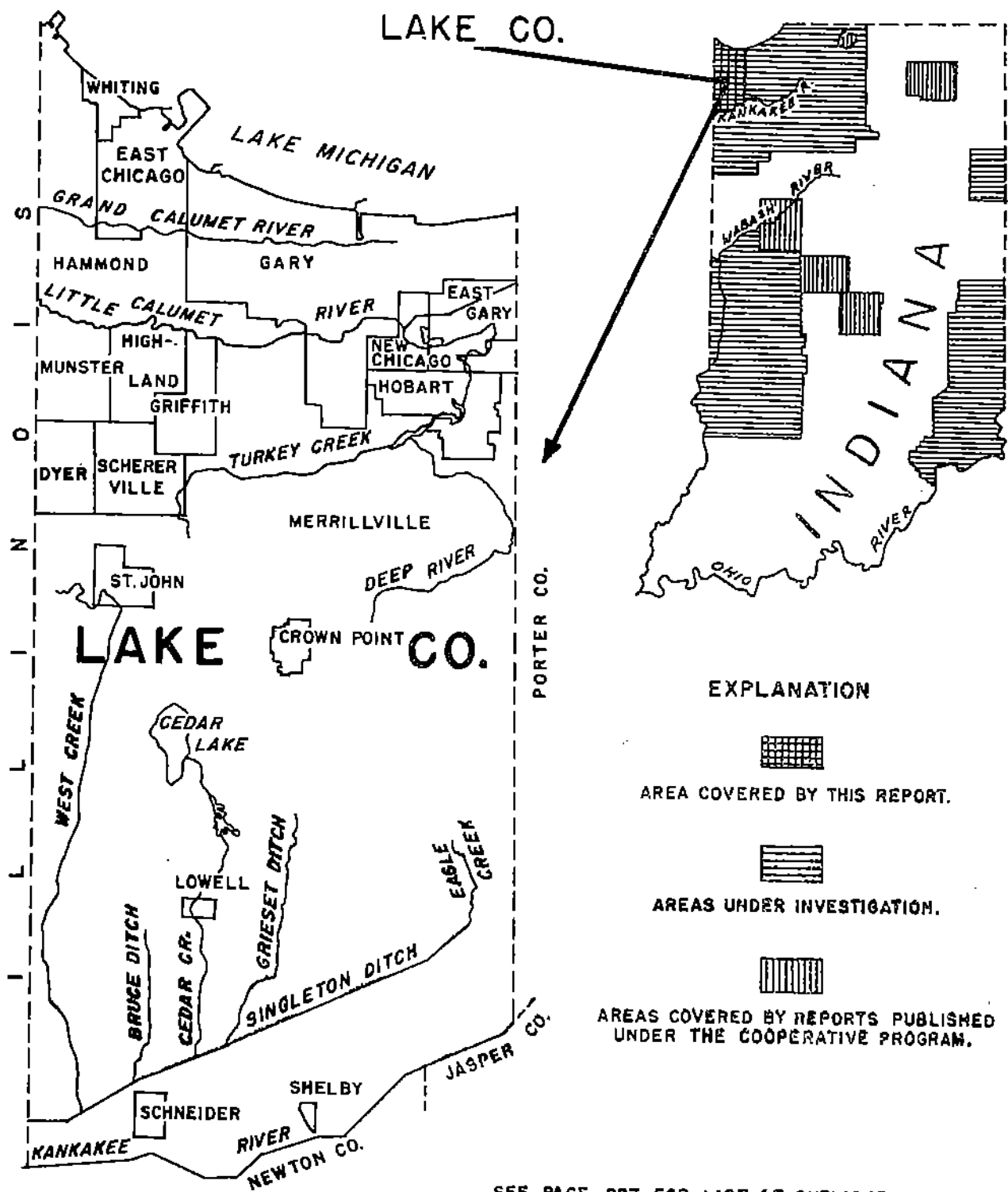


FIGURE 1.-- Map of Indiana showing area covered by this report, areas under investigation and areas covered by reports published under the cooperative program.

Well-Numbering System

A numbering system is used to locate and identify the wells and test holes in this report. The number that is assigned each well indicates its location according to the official rectangular public-land survey. For example, in the number for well 34/8W-36E1 the numbers preceding the hyphen indicates that the well is in T. 34 N., R. 8 W. The first number after the hyphen indicates the section in which the well is located. Each quarter-quarter section (40-acre tract) within a section is assigned a letter symbol as shown on figure 2. Within the quarter-quarter section the wells are numbered consecutively. Therefore, well 36E1 is the first well listed in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 36, T. 34 N., R. 8 W.

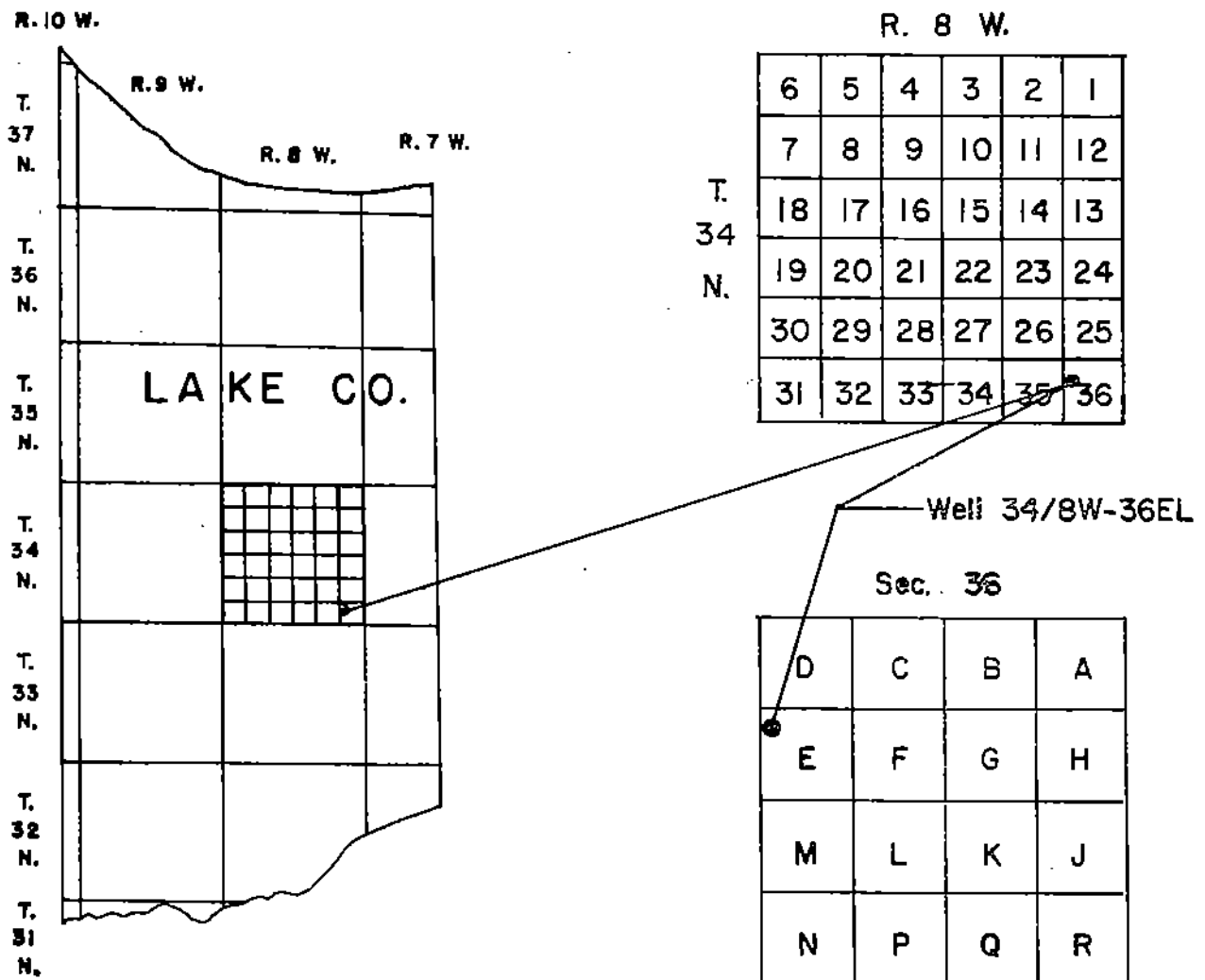


FIGURE 2.--Sketch showing well-numbering system.

Acknowledgments

The author thanks all persons who contributed time, information, and assistance during the collection, tabulation, and processing of data for this report. R. J. Vig, formerly of the Geological Survey, collected and helped process much of the basic data and assisted in the preparation of several parts of the report. H. C. Kost of the Indiana Department of Conservation assisted in the processing of data in the field. Well drillers, whose names are listed in the table of well records, furnished much of the information summarized in tables 2 and 3.

The author also thanks the following government agencies which provided information for the report: Divisions of Oil and Gas and Water Resources, Indiana Department of Conservation; Indiana State Highway Department; Indiana Toll Road Commission; Indiana State Board of Health; Illinois Geological Survey; and U. S. Corps of Engineers.

DATA COLLECTION AND PROCESSING

The well data were collected for drillers, water-works superintendents, owners, and others. The well records obtained from the drillers were of two types--written records and reports from memory. Tentative driller's locations were checked against the property records in the County Courthouse to verify the location, to locate the property, and to obtain the name of the current property owner. Discrepancies between driller's location and the location of property shown in the plat books were corrected. The locations of wells were checked further in the field if major discrepancies existed between the driller's location and the property record in the plat books, if the location given by the driller could not be verified from county records, or if the verified location was not sufficiently accurate to be used.

Plate 1 shows the location of water wells and test holes, and test holes drilled for purposes other than water supply. Most of these locations are shown to the nearest 10 acres. The basic data for these wells and test holes are summarized in table 2. In addition, selected driller's logs of wells and test holes and author's interpretations of the geologic age of the materials encountered are given in table 3.

Samples of water were collected at the time well sites were visited. These water samples were analyzed in the field office for hardness, alkalinity (carbonate and bicarbonate), chloride, and sulfate content by standard titration methods. The alkalinity is expressed as carbonate and bicarbonate. The total iron content was determined at the well site immediately after the water sample was collected. A visual method was used to determine the iron concentration in parts per million by matching the color of the treated sample to that of a liquid-color standard having a known iron concentration. The results of the field chemical analyses (table 4) were used to select sites for collecting larger water samples for more comprehensive and accurate chemical analyses by the laboratory of the U. S. Geological Survey.

Observation wells were established at the beginning of the investigation in order to determine the factors affecting the changes in storage in the ground-water reservoir. Table 5 contains the water-level data obtained from these wells. Most of the wells were drilled originally for industrial or public supplies but generally are not now used for these purposes. The observation wells were chosen so as to obtain water-level information from artesian and water-table aquifers. Whenever possible, the wells were established at sites where the factors affecting the water levels in the aquifer were due chiefly to natural causes.

GEOLOGIC SOURCES OF GROUND WATER

The oldest known consolidated rocks underlying Lake County are of Cambrian and Ordovician age. These rocks consist of dolomite, dolomitic limestone, sandstone, and shale. Few wells have been drilled into these rocks for water supplies in Lake County because of the deep water levels, the small yields, and the poor quality of water.

The rocks of Ordovician age are overlain by dolomite or dolomitic limestone of Middle Silurian age, which is the chief bedrock source of ground water. Water from this aquifer is utilized extensively in the western half of the county for domestic, stock, and a few public supplies. Much of the material of Middle Silurian age listed in table 2 as limestone or limestone (?) is either dolomite or dolomitic limestone. The deposits of Middle Silurian age are overlain in the central part of the county by a thin veneer of dolomitic limestone of Middle Devonian age that thickens eastward and is overlain by shale of Late Devonian age. The rocks of Devonian age are not extensively used as a source of water in Lake County.

The bedrock is overlain by unconsolidated glacial drift of Pleistocene age. The drift forms several prominent topographic features in the county (Leverett and Taylor, 1915; Wayne, 1958), such as the Valparaiso moraine in the central half, the beach-lines and lake bottoms of glacial Lake Chicago in the northern part, and the glaciofluvial plain in the southern part. The drift ranges in thickness from less than 30 to more than 250 feet and consists of glaciofluvial sand and some gravel, till, thin glaciolacustrine clay, silt, and sand. Glaciofluvial sand and some gravel underlie much of the county and are the chief source of ground water in the unconsolidated rocks. Locally the glacial material is overlain by thin alluvium, eolian sand, and organically rich sand, silt, and clay of Recent age.

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

Plate 2 shows the availability of ground water in the consolidated and unconsolidated rocks underlying the county. In addition, plates 3 and 4 show pertinent information on quality of water in the principal aquifers.

Plate 3 shows the distribution of hardness and iron and sulfate content in the water-bearing rocks of Middle Silurian age; plate 4 shows similar information for the water-bearing deposits of Pleistocene age.

TYPES OF WELLS

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

Water wells less than 3-inches in diameter are constructed in unconsolidated material by driving or jetting. The driven well consists of a small-diameter pipe having a drive point attached to the end, which is driven into shallow water-bearing material. The jetted well is constructed by forcing water under pressure out of a hollow-rod or small-diameter drill pipe that is fitted with a jetting bit. As the material is washed out of the hole ahead of the casing, the casing is driven down into the hole. After the water-bearing material is penetrated the well is generally finished with a well-point screen set in the water-bearing material below the bottom of the casing. Table 1 relates the grain-size in inches and millimeters to the slot and the gauze size of screens commonly used in water wells.

Table 1.--Grain size and equivalent screen openings

Grain size: After Wentworth (1922). Slot size: In thousandths (.001) of an inch.
 Equivalent screen openings: From commercial catalogs for water-well supplies. Gauze size: Number of wire strands per lineal inch.

Material	Grain size		Equivalent screen opening	
	Inches	Millimeters	Slot size	Gauze size
Gravel-----	>.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	-----	-----

Oil or gas test holes in Lake County generally were drilled by the cable-tool method. Structure test holes for foundations and bridges generally are drilled by the wash-boring method. In this method test hole samples usually are collected by driving a sampling tube into the material after specific intervals of boring.

SUMMARY

Preliminary evaluation of the basic data shows that adequate quantities of ground water are available for domestic, stock, and locally for public and some types of industrial supplies from the dolomite and dolomitic limestone of Middle Silurian age and the sand and gravel of Pleistocene age. The rocks of Cambrian and Ordovician age yield only small quantities of water and are a minor source of ground water in the county.

The quality of water from the rocks of Middle Silurian and Pleistocene age varies greatly. Locally water from these sources exceeds the U. S. Public Health Service drinking-water standards for iron and sulfate content.

RECORDS

The records of about 1,400 wells and test holes are given in table 2. The table contains information about well construction, water levels, yields and drawdowns, conditions of occurrence, thickness and characteristics of water-bearing materials, type of pump, and other data. The altitude of the land surface at all wells except test borings was interpolated from topographic maps. Altitudes of borings were leveled by the Federal or State agency for whom the borings were made.

Table 3 contains the selected logs of about 525 wells and test holes. This table gives the driller's description of the material encountered, pertinent remarks with regard to the material, and the driller's interpretation of the geologic age of the material.

The results of about 191 partial chemical analyses of water are given in table 4. Of this number 174 were determined in the field office of the Geological Survey, and 17 were determined by other governmental agencies or by commercial laboratories. This table gives information about geologic source, temperature, concentration in parts per million (ppm) of iron, carbonate, bicarbonate, sulfate, chloride, and hardness of water. The U. S. Public Health Service standards for drinking water are given in the table headnotes for iron and manganese together, sulfate, and chloride. No standards have been established for hardness of water. However, water with respect to hardness is generally classified as follows: 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.

Table 5 contains the records of water levels in 11 observation wells. The water levels in all observation wells, except two, were obtained either by recording gages installed on the well or by manual measurements made

with an engineer's steel tape calibrated to a hundredth of a foot. Water levels in two of the wells were obtained from air-line gage readings. All water levels in table 5 are in feet below land-surface datum. Daily highest water levels are given for the observation wells equipped with recording gages and periodic water levels are given for the observation wells measured manually or by air-line gage. Factors affecting the water levels in the observation wells are also indicated. The location of the observation wells is shown on plate 1.

SELECTED BIBLIOGRAPHY

- Batchley, W. S., 1897, The geology of Lake and Porter Counties, Indiana: Indiana Dept. Geology and Nat. Resources 22nd Ann. Rept., p. 25-104.
- Bergstrom, R. E., Foster, J. W., Selkregg, Lidia F., and Pryor, W. A., 1955, Ground-water possibilities in northeastern Illinois: Illinois Geol. Survey Circ. 198, 23 p.
- Gutstadt, A. M., 1958, Cambrian and Ordovician stratigraphy and oil and gas possibilities in Ind.: Ind. Dept. Conserv., Geol. Survey Bull. 14, 103 p.
- Harrell, Marshall, 1935, Ground water in Indiana: Indiana Dept. Conserv., Div. Geology Pub. 133, 504 p.
- Hem, J. D., 1959, Study and interpretation of the chemical characteristics of natural water: U. S. Geol. Survey Water-Supply Paper 1473, 269 p.
- Keech, C. F., and Dreeszen, V. H., 1959, Geology and ground-water resources of Clay County, Nebr., with a section on chemical quality of the water by F. H. Rainwater: U. S. Geol. Survey Water-Supply Paper 1468, p. 62-86.
- Leverett, Frank, 1899, Wells of Northern Indiana: U. S. Geol. Survey Water-Supply and Irrig. Paper 21, 64 p.
- Leverett, Frank, and Taylor, F. B., 1915, the Pleistocene of Ind. and Mich. and the history of the Great Lakes: U. S. Geol. Survey Mon. 53, 529 p.
- Logan, W. N., 1931, The subsurface strata of Indiana: Indiana Dept. Conserv., Div. Geology Pub. 108, p. 418.
- _____, 1932, Geologic map of Ind.: Ind. Dept. Conserv., Div. Geology Pub. 112.
- Patton, J. B., 1956, Geologic map of Indiana: Indiana Dept. Conserv., Geol. Survey Atlas of Mineral Resources Map 9.
- Rosenshein, J. S., and Cosner, O. J., 1956, Ground-water resources of Tippecanoe County, Indiana: Appendix, basic data: Indiana Dept. Conserv., Div. Water Resources Bull. 8, 67 p.
- Wayne, W. J., 1958, Glacial Geology of Indiana: Indiana Dept. Conserv., Geol. Survey Atlas Mineral Resources Map 10.
- Wentworth, C. K., 1922, A scale of grade and class terms for clastic sediments: Jour. Geology, vol. 30, p. 377-392.

Table 2.--Records of wells and test holes in Lake County, Indiana

Well number: See text for description of well-numbering system.
 Altitude: Altitude of land-surface datum, except as noted in text, p. 20.
 Type of well: B, bored; Dm, driven; Dr, drilled; Dk, dug; J, jetted.
 Finish: Gp, gravel pack; Os, open hole; S, screen; dia, diameter in inches.
 K, gauze size, sl. slot, sl. size.
 Character: D, drift; Do, dolomite; G, gravel; Ls, limestone; Sd, sand; Sh, shale; Ss, sandstone; T, till.
 Geologic age: C, Cambrian; D, Devonian; M, Mississippian; O, Ordovician; Pl, Pleistocene; S, Silurian.
 Condition of occurrence: C, confined; U, unconfined; see text for definition of terms.

Water level: In feet below land-surface datum on date of completion of well, except where otherwise noted.
 Use: A, air conditioning; B, domestic; Do, distriuted; I, industrial; Ir, irrigation; X, not used; O, observation; P, public supply; S, stock; J, test.
 Type of pump and horsepower: C, centrifugal; J, jet; M, lift; P, pitcher; S, submersible; T, turbine; Numerical indented raised, horsepower of electric motor.
 Remarks: Ca, chemical analysis table 4; dd, drawdown; E, electric log available for inspection; G, gamma-ray log available for inspection; Kpm, gallons per minute; L, log of well in table 3.

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Depth to bedrock (feet)	Water-bearing zone				Water level (feet)	Use	Remarks
										Depth to top (feet)	Thickness (feet)	Character	Geologic age			
31/9W-2G1	J. Tokarz	Lowell Well and Pump Co.	8-5-54	635	J	62	2 Oh				Ls (?)	S	C (?)	1	D	
2L1	H. Bedlaczek	-----	1-12-56	635	J	56	2 Oh				Ls (?)	S	C (?)	1	D	
32/7W-6H1	O. G. Pfaffeld	Peterson Dren.	3-18-58	640	Dr	79	4 Oh		68	0R	11	S	C (?)	8	D	
32/8W-1A1	-----	-----	10-16-45	640	Dr	915	8-6		53							
18J1	J. Strickhorn	-----	Spring 1921	635	Dr	1,105	10-7		73							
27E1	C. Mathin	Lowell Well and Pump Co.	9-17-56	---	J	24	2 S; 00g				Sd	Pl		7	D, S	J
28B1	R. Mathin	-----	9-12-58	640	J	24	2				Sd	Pl		10, S	J	
28F1	Town of Shelby	-----	1952	642	Dm	18	4 S; 4ft, dia 4				Sd	Pl	U		O	
28M1	A. Schissler	R. Robinson	1953	635	Dr	87	4 Oh		50	50	37	S	C	2	P	J
28X2	Town of Shelby	-----	1952	638	Dm	18	4 S; 4ft, dia 4				Sd	Pl	U		P	J
28N1	L. Wilkins	Lowell Well and Pump Co.	3-31-56	635	Dr	55	3 Oh		45		1	S	C	5	D	J
28P1	D. Viers	-----	1956	635	Dr	77	3 Oh		55 (?)	55	22	Ls (?)	C		D	
28Q2	J. Knight	-----	1955	633	Dr	42	3 Oh		39	39	3	Ls (?)	C	5	D	
28R3	R. Mulford	-----	1956	635	Dr	71	3 Oh		48	53	16	Ls (?)	C		D	
31C1	G. Horner	-----	8-7-54	635	J	51	2		51 (?)			Ls (?)	C		D	
31C2	-----	-----	10-6-54	635	J	18	2 S; 00g					Sd	U (?)		J	
31C3	C. Rohlfenzel	-----	1950	635	Dr	104	3 Oh		40 (?)	40 (?)	04 (?)	Ls (?)	C		D	
33D1	J. Rider	-----	4-20-56	635	Dr	46	3 Oh		44		2	Ls (?)	C	6	D	P
33E1	J. Schissler	-----	1-56	635	Dr	67	3 Oh		57 (?)	65	2	Ls (?)	C		D	
33E2	J. K. Froehlich	-----	3-29-56	635	Dr	76	3 Oh		50	66	10	Ls	D		D	P
33E3	K. Cincro	-----	1955	635	Dr	66	3 Oh		42 (?)	50	16	Ls (?)	C		D	
33F1	L. A. and E. Davis	-----	1950	635	Dr	44	3 Oh		36	40	4	Ls (?)	C		D	
33F2	R. Barton	-----	4-16-56	635	Dr	63	5 Oh		40	40	23	Ls (?)	C	12	D	L
33F3	J. Hood	-----	1955	635	Dr	51	3 Oh		58	42	9	Ls (?)	C		D	
33F4	L. O. Kilaor	-----	1955	635	Dr	44	3 Oh		30	38	6	Ls (?)	C		D	J

Well ID	Owner	Location	Date	Dr	47	1 Oh	40	44	3	La(?)	S	C	D	Ca.
32/8W-23F5	I. Masich	do	1958	Dr	635	1 Oh	---	44	3	La(?)	S	C	---	---
32/9W-241	E. Fry	do	1955	Dr	615	1 Oh	34	38	3	La(?)	S	C	---	---
32/9W-241	E. K. Craylor	do	1954	J	650	2 S; 60g	---	---	---	Sd	P1	---	D, S	Ca.
32/9W-241	F. K. and H. Loop	do	---	J	680	2 S; 60g, dia 1 1/2	---	---	---	Sd	P1	---	23 D, S	---
32/9W-241	F. Johnson	do	---	J	670	2 S; 60g, dia 1 1/2	---	---	---	Sd	P1	---	12 D	Well polluted.
32/9W-241	Trustees West Creek Township	H. F. Nuttall	---	J	690	2 S; 60g	---	---	---	Sd	P1	---	N	---
412	Shelby Well and Pump Co.	Shelby Well and Pump Co.	---	Dr	690	1 Oh	70	70	J	La	S	C	---	Ca.
4N1	Mr. Blanchard	Hub Plumbing Co.	4-22-55	J	700	2 S; 4ft., 60g, dia 1	---	---	---	Sd	P1	---	40 D	Ca.
4N2	Mr. Blanchard	Lowell Well and Pump Co.	---	J	700	2 S; 60g	---	---	---	Sd	P1	---	---	---
5N1	M. A. Carsten	P. P. and Son Co.	10-21-43	Dr	680	10	25	---	---	Sd	P1	---	---	Oil well; L.
5J1	Roberts Motel	Lowell Well and Pump Co.	---	J	680	2 S; 60g	---	---	---	Sd	P1	---	---	Ca.
5J2	R. Gunt	---	---	J	690	2	---	---	---	Sd	P1	---	30 D	---
5J3	F. W. Strickland	---	0-17-54	J	690	2	---	---	---	Sd	P1	---	22 D	---
5J4	M. B. Hayden	---	---	J	690	2	---	---	---	Sd	P1	---	33 D	---
5N1	U. Strickland	---	---	J	680	2	---	---	---	Sd	P1	---	---	---
1B1	G. E. Scifford	---	---	J	650	2 S; 60g, dia 1 1/2	---	---	---	Sd	P1	---	---	Ca.
1B1	Indiana State Highway Department	Indiana State Highway Department	4-5-54	---	631	---	---	---	---	---	---	---	---	Test pit; L.
212	---	---	4-5-54	---	632	---	---	---	---	---	---	---	---	Do.
26C1	---	---	4-5-54	---	620	---	---	---	---	---	---	---	---	Test pit; sand 0-10 ft.
26C2	---	---	4-5-54	---	628	---	---	---	---	---	---	---	---	Test pit; L.
29H1	S. Little	---	3-17-43	Dr	615	8	33	---	---	---	---	---	---	Oil well; L.
29H1	F. E. Deann	---	1942	Dr	630	---	63	---	---	---	---	---	---	Do.
29H1	Indiana State Highway Department	Indiana State Highway Department	4-12-54	---	632	---	---	---	---	---	---	---	---	Test pit; casarao yellow sand 0-18 ft.
33B2	Town of Schneider	---	4-12-54	---	632	6 Oh	00(?)	---	---	---	---	---	---	Test pit; L.
34D1	H. Horschback	Lowell Well and Pump Co.	1-19-51	Dr	635	3 Oh	59(?)	59(?)	21(?)	La(?)	S	C	---	Water has hydrogen sulfide gas.
36E1	B. D. Stowe	Peterson Bros.	4-13-56	Dr	670	4 Oh	77	77	26	La	S	C	---	Ca.
12Q1	D. Flockinger	Lowell Well and Pump Co.	12-8-54	J	690	2 S; 60g	---	---	---	---	P1	---	---	Do 10 ft. after 5 hr pumping @ 6 gpm; Ca., L.
12R1	D. Dalloy	---	1-18-54	J	690	2	---	---	---	---	P1	---	---	Ca., L.
13C1	M. E. Collins	---	4-5-53	Dr	670	1 S; 60g	80	82	6	La(?)	S	C(?)	---	Ca., L.
13C2	F. D. Braden	---	4-30-54	Dr	670	5 Oh	---	---	---	---	P1	---	---	Temperature 56.5°F.
24M1	L. Fairchild	Kramer Bros.	1951	Dr	615	---	---	---	---	---	S	C	---	Abandoned; gas in well.
33/7W-5E1	M. Franklin	W. Matheons	1951	J	680	2 Oh	113	113	5	La(?)	S(?)	C	---	Yield 15 gpm; Ca., L.
33/7W-5E1	M. Franklin	Peter County Well Service	7-53	J	690	2 S; 4ft., 60g	---	---	---	---	P1	---	---	---
9D1	C. McCollay	Hub Plumbing Co.	12-19-46	J	695	2 S; 4ft., 60g, dia 1	---	---	---	---	P1	---	---	Ca.
17P1	H. Garrison	Lowell Well and Pump Co.	---	J	675	2 S; 60g	---	---	---	---	P1	---	---	Ca.
18P1	F. Hensford	---	---	J	675	---	---	---	---	---	P1	---	---	---
20C1	R. Creemur	Hub Plumbing Co.	11-2-40	J	700	2	---	---	---	---	P1	---	---	---
26C1	H. Shorman	---	11-8-55	J	670	2 S; 4ft., 60g, dia 1	---	---	---	---	P1	---	---	Ca.
33/8W-1H1	J. and M. Donk	Lowell Well and Pump Co.	---	J	690	2 S; 60g	---	---	---	---	P1	---	---	---
4H1	E. Woodko	Hub Plumbing Co.	6-21-51	J	740	2 S; 4ft., 60g, dia 1	---	---	---	---	P1	---	---	Yield 11 gpm; Ca., L.
5D1	Floaming Farm Service	---	2-28-51	J	750	---	---	---	---	---	P1	---	---	---
5J1	C. Emory	---	7-21-53	J	710	---	---	---	---	---	P1	---	---	---
5M1	G. Stumacher	---	5-16-50	J	770	---	---	---	---	---	P1	---	---	---
6Q1	R. L. Lucas	---	3-19-53	J	730	---	---	---	---	---	P1	---	---	---
7B1	D. S. Rose	Lowell Well and Pump Co.	8-2-56	J	730	2 S; 4ft., 60g	---	---	---	---	P1	---	---	---
7C1	A. Corchidas	Pump Co.	---	J	725	2 S; 60g	---	---	---	---	P1	---	---	---
7K1	A. L. Ping	Hub Plumbing Co.	3-17-54	J	720	2 S; 4ft., 60g, dia 1	---	---	---	---	P1	---	---	Yield 5 gpm; has two additional 2-inch wells 50 ft and 56 ft deep, respectively; Ca.
8G1	J. Koehn	---	4-2-48	J	745	---	---	---	---	---	P1	---	---	---
9Q1	C. Emory	---	1-25-40	J	730	---	---	---	---	---	P1	---	---	---
10N1	F. Hichman	---	5-29-48	J	730	---	---	---	---	---	P1	---	---	---
12B1	E. Bordine	---	3-27-56	J	695	---	---	---	---	---	P1	---	---	---
12R1	A. Fitzpatrick	---	8-14-49	J	740	---	---	---	---	---	P1	---	---	---
13M1	E. H. and A. Meyers	Lowell Well and Pump Co.	---	J	720	2 S; 60g	---	---	---	---	P1	---	---	---
18K1	J. M. Baum	---	---	J	725	---	---	---	---	---	P1	---	---	---
18N1	J. Surpriso	H. F. Nuttall	---	J	695	---	---	---	---	---	P1	---	---	---
18P1	F. Ewer	Hub Plumbing Co.	11-22-55	J	700	2 S; 4ft., 60g, dia 1	---	---	---	---	P1	---	---	---

Table 2.--Records of wells and test holes in Lake County, Indiana--Continued

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Finish	Depth to bedrock (feet)	Water-bearing zone					Type of pump and horsepower	Remarks		
										Depth to top (feet)	Thickness (feet)	Character	Geologic age	Conditions of occurrence			Water level (feet)	Use
33/8W-18P2	Z. Yana	Lowell Well and Pump Co.		700 J	J	51	2 S; 60R											
21R1	K. E. Truelove	Hub Plumbing Co.	4-10-18	680 J	J	55	2 S; 4ft, 60R, dia 1											Ca.
22D1	D. M. Story	Lowell Well and Pump Co.		700 J	J	60	2 S; 60R											Ca.
23P1	R. Gummins		10-9-56	675 J	J	40												Ca.
23Q1	P. Hoffman			670 J	J	30												Ca.
25D1	V. L. Taylor			690 J	J	30												Ca.
36H1	R. Ellis	Guske's Well and Pump Co.		645 Dr	Dr	20	4 S; 5ft											Ca.
33/8W-1J1	W. Hook	Hub Plumbing Co.	4-20-52	715 J	J	43	2 S; 4ft, 60R, dia 1											Ca.
1M1	R. W. Boyles		11-19-53	685 J	J	58												Ca.
1M1	J. Rice		3-20-53	700 J	J	55												Ca.
1N1	X. Ebner	Lowell Well and Pump Co.	4-23-50	700 J	J	47	2 S; 4ft, 60R											Ca.
2A1	V. K. Roberts	H. F. Hufflitz		690 J	J	56	2 S; 60R											Ca.
2B1			8-7-57	723 J	J	53												Ca.
2K1	O. Kristie			720 J	J	54												Ca.
2L1	W. C. Schwartz	Lowell Well and Pump Co.		720 J	J	51												Ca.
2M1	D. Hafston	H. F. Hufflitz	1937	708 J	J	30												Ca.
3H1	D. Hawkinson			703 J	J	58												Ca.
3J1	H. F. Hufflitz		1892	710 J	J	28												Ca.
3L1	X. Kain			720 J	J	52	2 S; 60R											Ca.
3M1	C. W. McKinroy			720 J	J	40	2 S; 3.5ft, 60R											Ca.
3N1	S. Mesobuck			710 J	J	40	2 S; 60R											Ca.
3R1	K. Harmon		9-5-37	715 J	J	24												Ca.
3R1	H. F. Hufflitz			715 J	J	24												Ca.
3R2	O. Blachor	Welling Well Works	1950	740 Dr	Dr	35	5 Oh	181	173	La(?)	S	C	75	D, S			Ca.	
4E1	H. O. Stephenson	Lowell Well and Pump Co.		720 J	J	38	2 S; 80R											Ca.
5B1	R. Combs		10-17-56	730 J	J	50	2 S; 60R											Ca.
5C1	C. V. Story	Hub Plumbing Co.	9-1-50	710 J	J	50	2 S; 3.5ft, 60R, dia 1											Ca.
5R1	Mr. Lesnowski	Lowell Well and Pump Co.	8-3-50	730 J	J	56	2 S; 60R											Ca.
7G1	R. Yarek	Peterson Bros.	11-20-55	710 Dr	Dr	180	4 Oh	135	135	La	S	C	55	D			Ca.	
7G2	L. Elxeman	H. F. Hufflitz		715 J	J	52	2 S; 60R											Ca.
7H1	J. Cox	Lowell Well and Pump Co.		700 J	J	42												Ca.
7K1	W. Juuti	Peterson Bros.	8-15-55	710 Dr	Dr	161	4 Oh	138	138	La	S	C	50	D			Ca.	
8M1	V. Stonor		5-2-56	720 Dr	Dr	163	4 Oh	148	148	La	S	C	00	D			Ca.	
8M2	J. Tarno		4-11-57	715 Dr	Dr	165	4 Oh	148	148	La	S	C	45	D			Ca.	
11G1	H. F. Hufflitz	H. F. Hufflitz		750 J	J	40	2 S; 60R											Ca.
11K1	M. W. Jones	Lowell Well and Pump Co.		720 J	J	42												Ca.
11L1	T. Horachal			705 J	J	37												Ca.
12A1	A. G. Stonor			714 J	J	58												Ca.
12B1	G. T. Postone		10-29-50	750 J	J	40												Ca.
12C1	D. Z. McLaughlin		8-22-56	560 J	J	46												Ca.
12D1	E. A. McChauly		1-23-56	600 J	J	46												Ca.
12E1	E. Droyer	Hub Plumbing Co.	7-23-57	710 J	J	38	2 S; 4ft, 60R, dia 1											Ca.
12E1	D. O. Kretzman	H. F. Hufflitz	7-27-37	695 J	J	35	2 S; 60R											Ca.
12E2	R. W. Turkington	Hub Plumbing Co.	10-22-48	600 J	J	34												Ca.
12E3	G. W. Abbott	Lowell Well and Pump Co.		700 J	J	55												Ca.
12G1	T. J. Odenroll		3-27-58	700 J	J	61	2 S; 3ft, 60R, dia 1											Ca.
12G2	Mr. Nance	Hub Plumbing Co.	10-21-55	703 J	J	72	2 S; 4ft, 60R, dia 1											Ca.

Well No.	Owner	Location	Depth	Drilling Date	Well Type	Flow Rate	Pressure	Water Level	Notes
1263	Community Church	Lowell Well and Pump Co.	40	11-9-50	2 9; 80g	705 J	58		
1264	T. J. O'Donnell, Jr.	Lowell Well and Pump Co.	58	3-27-58	2	710 J			
1265	R. Adams	do	38	6-8-56	2 9; 4ft, 60g	690 J	31	17	Yield 12 gpm; see log well 1202, L.
1266	J. Bucknag	do	48	6-4-58	2 9; 4ft, 60g	690 J	38	10	Yield 11 gpm; Ca, L.
1267	C. Rufinagle	do	46	5-8-57	2 S; 4ft, 60g, dia 1	710 J	48	7	
1268	G. Shaw	Hub Plumbing Co.	55	5-8-57	2 S; 4ft, 60g, dia 1	700 J			
1269	J. Surprises	H. P. Rutledge	60	1937	2 S; 60g	720 J			
1270	P. Parrot	Steady Well and Pump Co.	60	6-54	2 9; 4ft, 60g	710 J	168	315	Slight odor hydrogen sulfide gas; L, S.
1271	N. A. Cumming	do	703		12 Ch	745 Dr			
1272	E. Bradbury	Lowell Well and Pump Co.	52		2 8; 60g	713 J			Ca.
1273	D. P. Chavrias	do	44	705 J	2 8; 100g	705 J			
1274	E. Jackson	do	56	710 J	2 9; 60g	710 J			
1275	G. Devos	do	50	710 J	2	710 J			Yield 15 gpm.
1276	W. Mokisz	do	51	710 J	2	710 J			
1277	Dixie Lumber Co.	Pitzgerald Well and Pump Co.	45	6-14-56	2 8; 3ft, 60g	685 J			
1278	E. Werno	Lowell Well and Pump Co.	28	695 J	2 9; 80g, dia 1 1/2	695 J			
1279	Mr. Sweet	Steady Well and Pump Co.	117	1955	3 Ch	890 Dr	105(?)	12(?)	
1280	G. Bruce	do	28	890 Da	1 1/2 S; 60g	890 Da			Ca.
1281	L. E. Matter	H. P. Rutledge	76	720 J	2	720 J			
1282	Lowell Lumber Co.	do	54	7-17-56	4 9; 10ft, 60g, dia 3 1/2	685 J			Water has hydrogen sulfide gas.
1283	E. Werno	do	183	1956	3 Ch	710 Dr	139	24	
1284	R. J. Brannock	do	34	690 J	2 9; 80g	690 J			
1285	R. M. Tunnell	do	27	670 J	2	670 J			Water has hydrogen sulfide gas; other Town well same depth.
1286	W. Demarling	do	55	690 J	2	690 J			
1287	Town of Lowell	Mr. Fleck	285	1900(?)	6	690 Dr			
1288	R. Housen	Lowell Well and Pump Co.	34	670 J	2 9; 80g	670 J			Spring issuing at base of hill; many seeps in area.
1289	J. Surprises	H. P. Rutledge	82	720 J	2 9; 60g	720 J			Yield 14 gpm; L.
1290	H. P. Sanko	Lowell Well and Pump Co.	82	4-18-56	2 9; 4ft, 60g	720 J			Little rd reported after 3 hr pumping 29 gpm.
1291	H. Burham	Webbing Well Works	152	6-56	5 Ch	710 Dr	128	22	
1292	L. Cunningham	Lowell Well and Pump Co.	42	700 J	2 9; 60g	700 J			
1293	F. Blaker	do	46	11-5-56	2	700 J			
1294	P. Mabler	H. P. Rutledge	43	700 J	2	700 J			
1295	C. W. Bartell	Lowell Well and Pump Co.	39	690 J	2	690 J			
1296	R. Ballou	do	51	10-29-56	2	695 J			
1297	Lowell Lumber Co.	do	50	11-8-56	2	700 J			
1298	P. Durus	do	48	10-13-55	2	700 J			
1299	A. Kullor	do	46	700 J	2	700 J			
1300	B. Stratton	do	50	700 J	2	700 J			
1301	J. Bartholomew	do	50	4-19-56	2 9; 4ft, 60g	700 J	40	10	Yield 8 gpm; Ca, L.
1302	Lowell Lumber Co.	do	50	4-11-56	2 9; 4ft, 60g	700 J	40	10	Yield 8 gpm; see log well 2571.
1303	M. Driscoll	do	50	11-8-56	2 9; 80g	700 J			Oil well; see Logan, 1931, p 418; L.
1304	Wago and Jones	Lowell Well and Pump Co.	70	1914	2 9; 80g	680 Dr	73		
1305	L. Superant	do	54	710 J	2	710 J			
1306	S. Williams	do	78	715 J	2	715 J			
1307	B. Wietbrock	do	46	720 J	2	720 J			
1308	B. Shirley	do	63	720 J	2	720 J			
1309	F. A. Rosenwinkel	Petersen Bros.	150	4-22-58	4 Ch	720 Dr	149	1	Oil 5 ft after 2 hr pumping 10 gpm; Ca, L.
1310	Rono's Restaurant	Lowell Well and Pump Co.	70	715 J	2 9; 60g	715 J			
1311	C. Benck	do	81	700 J	2	700 J			Oil 40 ft after 3 hr pumping 8 gpm; water has hydrogen sulfide gas; Ca, L.
1312	A. Paddors	do	38	690 J	2	690 J			
1313	G. W. Stuppy	Peterson Bros.	150	12-17-56	4 Ch	680 Dr	134	16	

Table 2.---Records of wells and test holes in Lake County, Indiana---Continued

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land surface (feet)	Diameter of well (inches)	Finish	Depth to bedrock (feet)	Water-bearing zone				Water level (feet)	Use	Type of pump and horsepower	Remarks
										Depth to top (feet)	Thickness (feet)	Character	Geologic age				
33/9W-31N1 33N1	Dr. Suddarth Mr. Bolehak	Wohling Well Works Shooby Well and Pump Co.	2-52 1955	695 Dr 685 Dr	Dr	184 98	5 Oh 4 Oh	5 Oh 4 Oh	110 90(?)	110 90(?)	74 8(?)	La(?) Ls	S S	C C	43 18	D,S D	Ca.
36M1	J. M. Harper	Lowell Well and Pump Co.	5-52	650 J	Dr	40	2 S; 60G	5 Oh	102	102	113	Ls(?)	S	C	37	D	Ca.
33/10W-1B1 1P1	E. Huseman	Wohling Well Works	1955	720 Dr	Dr	215	5 Oh	5 Oh	105	105	82	Ls(?)	S	C	26	D	Ca.
1201 1261 1281 1291 12P1	W. Orr J. Huseman W. R. Wolish A. Huseman	----- ----- ----- -----	1048 12-53 1950 1048	710 Dr 700 Dr 680 Dr 705 Dr	Dr	200 230 188 170	5 Oh 4 Oh 5 Oh 5 Oh	5 Oh 4 Oh 5 Oh 5 Oh	138 127 90 96	138 127 90 96	122 103 98 74	La(?) Ls(?) Ls(?) Ls(?)	S S S S	C C C C	25 18 22 34	D D D D	Ca. Ca. Ca. Ca.
13D1	H. Brandt	-----	-----	700 Dr	Dr	142	5 Oh	5 Oh	100	100	42	La(?)	S	C	42	D	Ca.
13E1 13L1	K. Horlitz L. C. Bradley	----- Lowell Well and Pump Co.	4-52 -----	720 Dr 710 J	Dr	168 38	5 Oh 2 S; 60G	5 Oh 5 Oh	130 -----	130 -----	38 -----	La(?) Ls	S P1	C -----	57 -----	D L	Ca. Ca.
24K1 25D1 25X1	M. Parmely E. Frags H. H. Huseman	Wohling Well Works Peterson Dros.	8-45 3-20-55 -----	725 Dr 685 Dr 680 Dr	Dr	190 117 125	5 Oh 4 Oh 4 Oh	5 Oh 4 Oh 4 Oh	117 100 123	117 100 123	73(?) 17 2	La(?) Ls Ls	S S S	C C C	60 20 30	D D,S S	Ca. Ca. Ca.
34/7W-5A1 6N1 6N2	H. W. Korbade H. Battershan C. A. Snyder	Hub Plumbing Co. ----- -----	1-25-56 9-22-48 7-14-59	720 J 700 J 700 J	Dr	40 38 35	2 S; 4ft, 60G, dia 1 ----- -----	2 S; 4ft, 60G, dia 1 ----- -----	----- ----- -----	----- ----- -----	----- ----- -----	Sd Sd Sd	P1 P1 P1	U U U	18 23 30	D D D	Ca. Ca. Ca.
6R1 7N1 8N1	P. Saldt Truiston Winfield Township K. Emetz	----- ----- Peterson Dros.	12-27-50 12-28-55 2-20-58	700 J 710 J 730 Dr	Dr	45 40 182	2 S; 4ft, 40G, dia 1 ----- 4 Oh	2 S; 4ft, 40G, dia 1 ----- -----	----- ----- 105	----- ----- -----	----- ----- 13	Ls ----- -----	S ----- -----	C ----- -----	40 ----- -----	--- S ---	Ca. Ca. Ca.
17E1 18D1 18P1	N. Thoms J. Hulston K. R. Hughes	Hub Plumbing Co. ----- Nelson Well and Pump Service	6- 4-54 4-28-50 7-15-59	750 J 710 J 715 J	J	65 45 35	2 S; 4ft, 60G, dia 1 2 S; 3.5ft, 60G, dia 1 2 S; 3.5ft, 60G, dia 1	2 S; 4ft, 60G, dia 1 2 S; 3.5ft, 60G, dia 1 2 S; 3.5ft, 60G, dia 1	----- ----- -----	----- ----- -----	----- ----- 7	Sd Sd Sd	P1 P1 P1	----- ----- C	50 20 20	D D,S J	Ca. Ca. Ca.
20D1 20D2	J. Pilmitz W. V. Evelt	Hub Plumbing Co. Waco Well Drilling	3-20-57 4-15-57	750 J 760 J	J	89 96	2 S; 4ft, 60G, dia 1 3 S; 5ft, 60G, dia 1 1/2	2 S; 4ft, 60G, dia 1 3 S; 5ft, 60G, dia 1 1/2	----- -----	----- -----	16 87	Sd Sd,G	P1 P1	C C	60 34	D(?) D,S	Ca. Ca.
28E1 28H1 29F1	L. Lawson C. Chakarekhis E. L. Donk	----- Hub Plumbing Co. Lowell Well and Pump Co.	8- 1-56 5-23-40 -----	740 J 765 J 700 J	J	100 75 38	2 S; 3.5ft, 60G, dia 1 1/2 2 S; 4ft, 60G, dia 1 2 S; 60G	2 S; 3.5ft, 60G, dia 1 1/2 2 S; 4ft, 60G, dia 1 2 S; 60G	----- ----- -----	----- ----- -----	----- ----- -----	Sd Sd Sd	P1 P1 P1	C(?) ----- -----	----- ----- -----	----- ----- -----	Ca. Ca. Ca.
29J1 30P1 31C1	L. Lawson G. Stokes C. Stonor	Waco Well Hub Plumbing Co. Fitzgerald Well and Pump Co.	8-56 3-18-53 4-18-50	715 J 880 J 680 J	J	81 55 25	2 S; 4ft, 60G, dia 1 ----- 2 S; 4ft, 60G	2 S; 4ft, 60G, dia 1 ----- 2 S; 4ft, 60G	----- ----- -----	----- ----- -----	----- ----- -----	Sd Sd Sd	P1 P1 P1	C ----- -----	----- ----- -----	----- ----- -----	Ca. Ca. Ca.
31F1 31F2 32L1	E. Fracko B. Craponu A. Gibbs	Hub Plumbing Co. ----- -----	7-14-49 4- 7-49 2-23-50	880 J 680 J 705 J	J	67 68 38	2 S; 60G ----- 2 S; 4ft, 60G, dia 1	2 S; 60G ----- 2 S; 4ft, 60G, dia 1	----- ----- -----	----- ----- -----	----- ----- -----	Sd Sd Sd	P1 P1 P1	----- ----- -----	----- ----- -----	----- ----- -----	Ca. Ca. Ca.
34/8W-2B1 31L1 3Q1 4N1 4N1	J. Dillrol N. Wirtz K. Meyer C. Nicemeyer K. Feder	----- ----- ----- ----- Westville Well Co.	7-25-50 11-26-48 6-22-54 11-14-51 1952	670 J 650 J 650 J 700 J 710 Dr	J	58 57 30 100	2 S; 60G 2 S; 4ft, 60G, dia 1 2 S; 4ft, 60G 2 S; 4ft, 60G, dia 1 4 S; 20ft	2 S; 60G 2 S; 4ft, 60G, dia 1 2 S; 4ft, 60G 2 S; 4ft, 60G, dia 1 4 S; 20ft	----- ----- ----- ----- -----	----- ----- ----- ----- -----	----- ----- ----- ----- 45	Sd Sd Sd Sd Sd,G	P1 P1 P1 P1 P1	----- ----- ----- ----- C	----- ----- ----- ----- 75	----- ----- ----- ----- ---	Ca. Ca. Ca. Ca. Ca.

34/88-4N2	City of Crown Point	2-12-57	710 Dr	104	4	39	61	Sd	Pl	U	39	T	L.
4P1	Layne-Northern Co., Inc.	11-11-52	700 J	48	2 S; 4ft. 80g. dia 2			Sd	Pl			J ²	L.
4P2	Hub Plumbing Co.	7-5-51	700 J	42	2 S; 4ft. 60g. dia 1			Sd	Pl			L	At sewage-disposal plant; Ca. L.
5A1	Layne-Northern Co., Inc.	4-11-57	690 Dr	75	6 S		48	Sd	Pl	C		P	L.
5P1	Waco Well Co.	9-29-57	700 J	54	2 S; 4ft. 80g. dia 1		30	Sd	Pl	C(7)		D	L.
5G1	Layne-Northern Co., Inc.	2-20-57	700 Dr	76	4		38	Sd	Pl	U		T	L.
5J1	Hub Plumbing Co.	6-22-50	705 Dr	100	0		34	Sd	Pl	C		T	L.
5J2	Hub Plumbing Co.	9-27-49	700 J	50	2 S			Sd	Pl	C(7)		D	L.
5J3	Erie Railroad Co.	2-1-53	700 Dr	80	24 S; 15ft. dia 13			Sd	Pl	C(7)		Dos	L.
5K1		10-27-58	710 Dr	105	30 Sp; S; 40ft. dia 12		52	Sd	Pl	C		N	Well pumped sand; dd 25 ft pumping 740 gpm; L.
5K2		8-24-55	710 Dr	139		138	31	Sd	Pl	C		T	L.
5K3		10-10-55	710 Dr	98	30 Sp; S; 40ft. dia 12	137	36	Sd	Pl	C		Dos	dd 44 ft pumping 700 gpm.
5K4		8-31-55	710 Dr	138			32	Sd	Pl	C		T	L.
5K5		10-25-58	710 Dr	105			32	Sd	Pl	C(7)		D	L.
5L1	Lovell Lumber Co.	10-26-55	700 J	89	2 S; 60g			Sd	Pl	C		T	L.
5M1	R. Richards	2-1-56	700 J	39	2 S; 3.5ft. 60g. dia 1		30	Sd	Pl	C(7)		D	Yield 8 gpm.
5M2	V. Kreichmar	1-6-54	695 J	46	2 S; 4ft. 60g. dia 1			Sd	Pl	C(7)		D	L.
5N1	V. L. Albright	12-28-51	695 J	63	2			Sd	Pl			J ²	L.
5P1	W. L. Zurbruggen		710 J	25	2 S; 60g; dia 1 1/2			Sd	Pl			J	L.
5R1	City of Crown Point	6-13-50	710 Dr	103	6		35	Sd	Pl	C		T	L.
5R2		11-7-50	710 Dr	100	30 Sp; S; 40ft. 80al, dia 12		55	Sd	Pl	C		P	dd 33 ft pumping 700 gpm; L.
6P1	L. Dely	7-25-55	710 J	70	2 S; 4ft. 60g. dia 1			Sd	Pl			D	L.
6P2	A. Krueger	9-27-52	710 J	77	2			Sd	Pl			D	Ca. L.
6P3	T. Vesely Jr.	9-7-55	705 J	86	2		50	Sd	Pl	U		D	Ca. L.
6P4	National Construction Corp.	11-17-56	705 J	75	2 S; 3.5ft. 60g. dia 1		65	Sd	Pl	C		D	Ca. L.
6Q1			710 J	75	2 S; 4ft. 60g. dia 1		55	Sd	Pl	C		D	L.
6Q2		8-13-59	710 J	70	2		52	Sd,G	Pl	U		D	Yield 10 gpm; Ca. L.
6R1	Mr. Ball	8-14-59	710 J	68	2		52	Sd,G	Pl	C		D	Yield 10 gpm; L.
6R2	T. Fitzgerald	8-6-59	710 J	59	2 S; 3ft. 60g. dia 1		42	Sd	Pl	C		D	Yield 10 gpm; white sand overlain by 42 ft brown and blue clay.
6R3		8-7-59	710 J	58	2		42	Sd	Pl	C		D	Yield 8 gpm; white sand overlain by 42 ft brown and blue clay.
6S1	W. E. Kurtz Inc.	10-12-48	690 J	63	2 S; 4ft. 60g. dia 1			Sd	Pl			D	L.
6S2	C. Klotzschmidt	4-7-55	710 J	89	2			Sd	Pl			D	J ²
6S3	E. Lewis	9-7-51	710 J	74	2			Sd	Pl			D	J
6L1	D. Hano	2-18-48	710 J	64	2			Sd	Pl			D	J
6L2	Mrs. Kuhn	9-22-51	710 J	71	2 S; 4ft. 80g. dia 1			Sd	Pl			D	J
6N1	S. Kuzenka	8-11-48	710 J	80	2 S; 4ft. 80g. dia 1			Sd	Pl			D	J
6N2	J. Zukewski	7-8-55	720 J	81	2			Sd	Pl			D	J ²
6P1	P. Raab	5-9-55	715 J	70	2			Sd	Pl			D	J ²
6P2	K. Hessler	7-31-54	720 J	83	2			Sd	Pl			D	J ²
7C1	W. W. Kinoy	4-21-55	720 J	80	2			Sd	Pl			D	J ²
7C2	E. Ruffing	7-26-54	710 J	82	2			Sd	Pl			D	J ²
7L1	G. Boudzha	10-29-56	710 J	75	2		60	Sd	Pl	C		D	L.
7L2	W. DeRaan	1-9-48	700 J	93	2 S; 3.5ft. 60g. dia 1		05	Sd	Pl	C		D	Screen changed 6 times. Yield 10 gpm; Ca. L.
8C1	Lake County	12-15-50	740 J	104	2 S; 4ft. 60g. dia 1		05	Sd	Pl	C		D	At county courthouse; see Hlatichloy, W. S. (1897, p 44); gas well; L.
8C1		1889	725 Dr	3,100		140							L.
8K1	E. Gard	2-4-54	725 J	52	2 S; 4ft. 60g. dia 1			Sd	Pl			A	L.
8R1	M. Schuller	1-21-53	750 J	76	2			Sd	Pl			D,S	L.
9D1	W. Feder	1952(7)	715 Dr	110	6 S; 30ft		55	Sd,G	Pl	C		T	L.
9D2	City of Crown Point	3-28-57	710 Dr	103	6		48	Sd	Pl	C		T	L.
9P1	A. H. Lindblade	5-5-49	720 J	43	2 S; 60g			Sd	Pl	U		D	L.
9K1	City of Crown Point	4-5-57	710 Dr	109	6		28	Sd	Pl	U		D	L.
9P2	P. Q. Row	11-17-46	720 J	80	2 S; 4ft. 60g. dia 1			Sd	Pl			D	L.
11L1	Lake County News Co., Inc.	4-16-40	700 Dr	92	18 Sp; S; 8. dia 7		78	Sd	Pl	C		P	dd 20 ft pumping 60 gpm; have two rock walls 355 ft and 350 ft. used for stand by; water from rock wells has hydrogen sulfide gas; Ca. L.

Table 2.--Records of wells and test holes in Lake County, Indiana--Continued

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Depth to bedrock (feet)	Water-bearing zone				Water level (feet)	Type of pump and horsepower	Remarks
										Depth to top (feet)	Thickness (feet)	Character	Geologic age			
34/88-112	Lake County Home	Layne-Northern Co., Inc.	2-29-40	700 Dr	98											
12R1	T. Vor Mevlen	Hub Plumbing Co.	10-21-49	600 J	28		2 1/2 S; 4ft. 80g. dia 1									
13H1	C. Huber	do	12-28-47	700 J	47		do									
14K1	L. Rebo	do	1-28-50	700 J	46		do									
15E1	M. Graves	do	9-18-51	720 J	50		do									
15E2	H. Graves	do	3-20-53	720 J	58		do									
15E3	E. Millm	do	3-20-53	720 J	40		2 S; 4ft. 80g. dia 1									
15E4	A. Dancy	do	4-14-47	715 J	50		2 S; 4ft. 60g. dia 1									
15E5	H. D. Mills	Lowell Well and Pump Co.	4-14-47	715 J	42		2 S; 60g.									
16A1	Mr. Wagonblast	Hub Plumbing Co.	12-20-48	700 J	60		2 S; 4ft. 60g. dia 1									
16A2	R. Hall	do	6-28-59	700 J	60		2 S; 3.5ft. 60g. dia 1									
16D1	C. Phillips	do	7-9-50	750 J	62		2 S; 4ft. 60g. dia 1									
16N1	W. Heisterberg	do	6-1-48	760 J	74		do									
16N1	M. Fraiker	do	11-5-55	770 J	83		do									
16R2	H. Arndt	do	11-23-53	765 J	90		do									
16N3	C. Wille	do	5-18-49	765 J	84		do									
16N3	A. Hill	Shoony Well and Pump Co.	8-58	740 Dr	276		4 Oh	160								
16P2	R. H. Shannon	Hub Plumbing Co.	4-29-54	740 J	62		2 S; 4ft. 60g. dia 1									
17H1	L. Seavie	do	6-18-54	750 J	86		do									
17H2	do	do	11-18-52	750 J	64		do									
17H3	do	do	18-8-52	750 J	67		do									
17H4	do	do	18-8-52	750 J	67		do									
17H5	K. Lewis	do	2-18-53	750 J	67		do									
17H5	C. Kaiser	do	2-18-53	770 J	72		do									
17R1	C. Kaiser	do	8-18-59	770 J	82		do									
17R2	Mr. Pappardino	Fitzgerald Well and Pump Co.	8-18-59	770 J	82		do									
18J1	C. Doty	Hub Plumbing Co.	3-11-52	760 J	85		2 S; 3.5ft. 80g. dia 1									
18J2	H. Goothal	do	7-55	770 J	82		2 S; 4ft. 60g. dia 1									
18J3	G. Amorean	do	5-10-52	770 J	79		do									
18J4	I. Yettler	do	4-23-51	770 J	84		do									
18J5	R. Turble	do	8-19-48	760 J	80		do									
18J6	G. Cooper	do	10-21-47	770 J	74		do									
18J7	W. D. Lycan	Lowell Well and Pump Co.	1956	760 Dr	252		Oh	219								
18J8	Mr. Bulander	Hub Plumbing Co.	9-30-50	700 J	75		2 S; 4ft. 60g. dia 1									
18J9	X. Cirrincione	Hub Plumbing Co. Peterson Bros.	2-20-57	750 Dr	295		Oh	258(?)								
18L1	A. Mathore	Hub Plumbing Co.	12-7-56	750 J	84		2 S; 4ft. 60g. dia 1									
18P1	A. Russell	do	7-56	730 J	71		do									
18P2	R. S. Lasoro	do	7-50	730 J	101		do									
18Q1	A. Kaziner	do	7-20-55	760 J	87		do									
18Q2	F. Blakeman	do	7-11-47	770 J	83		do									
18R1	J. J. Dross	Shoony Well and Pump Co.	1955	760 Dr	270		Oh	130(?)								
18R2	C. Guecko	Hub Plumbing Co.	7-0-54	755 J	95		2 S; 4ft. 60g. dia 1									
18R3	A. Burns	do	9-7-49	750 J	81		do									
18R4	K. Scott	do	1-13-47	755 J	76		2 S; 4ft. 80g. dia 1									
18R5	Mr. Uhrhammer	Woo Well Drilling	7-22-50	750 J	67		do									
19D1	J. Zauda	Hub Plumbing Co.	2-13-51	770 J	94		do									
19E1	J. Garischal	do	4-29-55	760 J	72		do									
19E2	G. Pizer	do	1-4-55	760 J	67		do									
19G3	S. Grzeszkowink	do	10-20-54	760 J	63		do									
19P1	W. Busse	do	9-18-55	725 J	78		do									
19P2	J. J. Bobrowski	do	4-28-54	710 J	78		do									
19P3	A. Beasol	do	1957	720 J	86		do									
19P4	E. Heisterberg	do	8-47	700 J	74		do									
20A2	F. Hallgren	do	5-22-50	750 J	69		do									

Table 2. --Records of wells and test holes in Lake County, Indiana--Continued

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land surface (feet)	Diameter of well (inches)	Finish	Depth to bedrock (feet)	Water-bearing zone					Water level (feet)	Use	Type of pump and horsepower	Remarks
										Thickness (feet)	Character	Geologic no	Conditions of occurrence	Depth to top (feet)				
34/59-521	Michigan-Wisconsin Pipeline Co.	Layne-Northern Co., Inc.		710 Dr	125	6				60	Sd	Pl	C	28	O		Observation well Lake 6; water level measured 33.52 ft below lsd. 8-17-56; E. G. L.	
522	R. Payne	Hub Plumbing Co.	4-16-55	710 J	102	2 1/2	4 ft., 60g. dia 1					Pl						
521	W. Clause	H. F. Hatfillz	1937	680 Dr	124	3 1/2	4 1/2					Pl						
522	L. Valois	Triangle Drilling Co.	12-1-57	680 Dr	124	3 1/2	4 1/2					S	C	0	D			
8A1	F. Moohman	Hub Plumbing Co.	8-13-48	690 J	97	2 1/2	4 ft., 60g. dia 1					Pl						
8B1	S. Williamson	H. F. Hatfillz	10-26-37	680 J	31	2 1/2	60g.					Pl	C	0	D			
8J1	J. Rutledge	Lovell Well and Pump Co.	1955	710 Dr	158	3 1/2	4 1/2					S	C	0	D			
9A1	H. Turner	Triangle Drilling Co.	4-26-55	715 J	56	2 1/2	4 ft., 60g. dia 1					Pl		24	D			
9A2	P. Faurot	Triangle Drilling Co.		720 Dr	185	4 1/2	4 1/2					S	C	28	D			
9B1	J. Burko		10-30-56	700 J	55	2 1/2	3 ft., 60g. dia 1					Pl	C		D			
9B2		Lovell Well and Pump Co.	6-17-54	690 J	85	2 1/2	60g.					Pl	C		D			
9B3	Mr. Turkington	Hub Plumbing Co.	1-12-49	695 J	76	2 1/2	4 ft., 60g. dia 1					Pl	C(?)		D			
9B4	Mr. Mohr	Triangle Drilling Co.	1957	720 Dr	188	4 1/2	4 1/2					S	C	30	D			
9K1	E. Akers	Hub Plumbing Co.	5-8-50	720 J	114	2 1/2	4 ft., 60g. dia 1					Pl			D			
9K2	J. Horod		9-13-48	720 J	111	2 1/2	4 ft., 100g. dia 1					Pl			D			
9K3	F. Sheaks		8-28-49	720 J	104	2 1/2	4 ft., 60g. dia 1					Pl			D			
9K4	W. R. Heila		5-24-48	720 J	95	2 1/2	4 ft., 60g. dia 1					Pl			D			
9K5	J. W. Patrick	Lovell Well and Pump Co.	1955	700 Dr	143	3 1/2	4 1/2					S	C		P			
9N1	J. R. Parat			720 J	74	2 1/2	60g.					Pl			D			
10B1	A. Ifovo	Hub Plumbing Co.	6-6-47	720 J	112	2 1/2	60g.					Pl			D			
10H1	E. S. Urbanski		8-11-53	735 J	67	2 1/2	4 ft., 60g. dia 1					Pl		50	D			
11A1	Mr. Kilbury	Shooby Well and Pump Co.	1955	710 Dr	210	3 1/2	4 1/2					S	C	30	D			
11A2	H. Ibe	Hub Plumbing Co.	10-7-46	720 J	84	2 1/2	4 ft., 60g. dia 1					Pl			D			
11A3	C. Dacus	Free Well Drilling	1958	695 Dr	205	4 1/2	4 1/2					S	C	60	D			
11M1	J. Lucy	Shooby Well and Pump Co.	10-56	730 Dr	205	4 1/2	4 1/2					S	C	50	D			
11M2	J. R. Graves	Hub Plumbing Co.	9-20-56	730 Dr	92	2 1/2	4 ft., 60g. dia 1					Pl	C	50	D			
12B1	C. Allen		1-4-52	720 J	53	2 1/2	4 1/2					Pl	C	45	D			
12B2	E. Contrell		3-7-49	720 J	83	2 1/2	4 1/2					Pl			D			
12B3	J. Bryant	Nelson Well and Pump Service	6-56	720 J	46	3 1/2	4 ft., 60g. dia 1 1/2					Pl			D			
12C1	Sky-Lino Poultry Farm	Hub Plumbing Co.	6-1-51	710 J	38	2 1/2	4 ft., 60g. dia 1					Pl			D,S			
12F1	N. Brown	Free Well Drilling	1958	720 J	68	2 1/2	4 ft., 60g. dia 1					Pl			D			
12K1	L. G. Hesa	Shooby Well and Pump Co.	10-55	730 Dr	187	4 1/2	4 1/2					D	C	25	D			
12P1	Mr. Spracino	Hub Plumbing Co.	7-25-55	720 J	72	2 1/2	4 ft., 60g. dia 1					Pl		50	D			
12P2	J. Macko		5-24-55	730 J	30	2 1/2	4 1/2					Pl			D			
12P3	C. Hopkins	Triangle Drilling Co.	9-5-57	730 Dr	233	4 1/2	4 1/2					S	C	35	D			
12P4	W. Foor	J. R. Stinnott	9-21-55	730 Dr	245	4 1/2	4 1/2					S	C	25	D			
13B1	J. Kuzmarloy	Shooby Well and Pump Co.		730 Dr	208	4 1/2	4 1/2					S	C	63	D,S			

Well No.	Owner	Company	Date	Drill	Depth	Remarks	Yield	Pressure	Temp	Notes
134/9W-10C1 13C2	V. Yancy Mr. Madson	Hub Plumbing Co. Shooby Well and Pump Co.	8-18-53 1955	740 J 730 Dr	107 265	2 S; 4ft., 60g. dia 1 3 Oh	230(?) 218	230(?) 218	---	---
13C3	C. White	Hub Plumbing Co.	9-11-52	730 J	96	2 S; 4ft., 60g. dia 1	---	---	---	---
13C4	V. Orinas	Hub Plumbing Co.	3-21-52	730 J	85	2 S; 4ft., 60g. dia 1	---	---	---	---
13F1	W. S. Thundor	Lewell Well and Pump Co.	1956	760 Dr	235	3 Oh	218	---	---	---
13F2	T. McCabe	Hub Plumbing Co.	3-5-52	755 J	80	2 S; 4ft., 60g. dia 1	---	---	---	---
13G1	J. Melland	Hub Plumbing Co.	12-18-52	750 J	91	2 S; 4ft., 60g. dia 1	---	---	---	---
13G2	J. Danovska	Hub Plumbing Co.	3-29-51	730 J	86	2 S; 4ft., 60g. dia 1	---	---	---	---
13G3	J. Anderson	Hub Plumbing Co.	7-6-51	740 J	70	2 S; 4ft., 60g. dia 1	---	---	---	---
13G4	J. Bianco	J. Elch and Son	7-30-59	750 J	77	2 S; 4ft., 60g. dia 1	---	---	---	---
13H1	K. Lively	Hub Plumbing Co.	9-22-52	750 J	80	2 S; 4ft., 60g. dia 1	---	---	---	---
13H2	C. Zillor	Hub Plumbing Co.	8-22-52	750 J	80	2 S; 4ft., 60g. dia 1	---	---	---	---
13H3	L. Zillor	Hub Plumbing Co.	6-2-56	750 J	84	2 S; 4ft., 60g. dia 1	---	---	---	---
13J1	J. Solisky	Hub Plumbing Co.	7-20-54	760 J	78	2 S; 3.5ft., 60g. dia 1	---	---	---	---
13J2	Mr. Liblik	Lewell Well and Pump Co.	3-12-51	760 J	78	2 S; 60g	---	---	---	---
13K1	G. Forburger	Lewell Well and Pump Co.	2-23-53	750 J	77	2 S; 60g	---	---	---	---
13L1	W. A. Redwill	Hub Plumbing Co.	---	760 Dr	236	3 Oh	218	---	---	---
14D1	M. Doll	Hub Plumbing Co.	4-19-46	725 J	84	2 S; 4ft., 60g. dia 1	---	---	---	---
14E1	A. Turkington	Hub Plumbing Co.	6-25-47	730 J	88	2 S; 4ft., 60g. dia 1	---	---	---	---
14E2	E. S. Wild	Triangle Drilling Co.	12-5-57	700 Dr	126	4 Oh	118	---	---	---
15A1	Mr. Bostich	Shooby Well and Pump Co.	1955	730 Dr	155	4 Oh	135(?)	---	---	---
15A2	K. Schmidt	Hub Plumbing Co.	5-21-47	730 J	75	2 S; 4ft., 60g. dia 1	---	---	---	---
15H1	E. S. Cross	Hub Plumbing Co.	6-27-56	740 Dr	178	4 Oh	167	---	---	---
15H2	C. Johnson	Hub Plumbing Co.	12-22-47	740 J	70	2 S; 3.5ft., 60g. dia 1	---	---	---	---
15H3	V. Brown	Hub Plumbing Co.	5-27-52	720 J	77	2 S; 4ft., 60g. dia 1	---	---	---	---
16H1	Mr. Williams	Shooby Well and Pump Co.	1955	740 Dr	185	4 Oh	170(?)	---	---	---
16H1	J. Boone	Fitzgerald Well and Pump Co.	8-1-56	725 J	108	2 S; 3ft., 60g	---	---	---	---
16R2	Automatic Fuscon Co.	Lewell Well and Pump Co.	---	725 J	90	2 S; 60g	---	---	---	---
17B1	Mr. Milk	Shooby Well and Pump Co.	1955	720 Dr	159	3 Oh	148(?)	---	---	---
17G1	J. M. Tomko	Triangle Drilling Co.	8-29-59	725 Dr	185	4 Oh	153	---	---	---
18A1	E. Swidor	Shooby Well and Pump Co.	7-10-57	670 Dr	98	4 Oh	88	---	---	---
18H1	F. DeVries	Wobling Well and Pump Co.	5-56	720 Dr	238	5 Oh	160	---	---	---
20A1	N. Tital	R. Robinson	2-8-56	740 Dr	194	3 Oh	174	---	---	---
20B1	E. Jung	Hub Plumbing Co.	2-10-56	740 J	112	2 S; 3.5ft., 100g. dia 1	---	---	---	---
20F1	R. Hargis	Shooby Well and Pump Co.	1955	730 Dr	167	4 Oh	135(?)	---	---	---
20H1	R. Potts	Lewell Well and Pump Co.	12-58	745 Dr	188	3 Oh	168	---	---	---
20J1	H. V. Lear	Hub Plumbing Co.	8-22-53	780 Dr	212	2 S; 60g	---	---	---	---
20J2	W. L. Pfeifer	J. R. Stinnert	---	780 Dr	212	6 Oh	182(?)	---	---	---
20Q1	H. Kretz	Triangle Drilling Co.	1958	765 Dr	263	4 Oh	188	---	---	---
20Q2	A. Szarwach	Triangle Drilling Co.	1958	765 Dr	243	4 Oh	188	---	---	---
20R1	R. Wilson	Hub Plumbing Co.	4-22-54	780 J	77	2 S; 4ft., 60g. dia 1	---	---	---	---
20R2	E. Bigulski	Hub Plumbing Co.	3-11-54	780 J	73	2 S; 4ft., 60g. dia 1	---	---	---	---
20R3	E. Courtney	Hub Plumbing Co.	5-7-54	780 J	77	2 S; 4ft., 60g. dia 1	---	---	---	---
20R4	L. Ravick	Triangle Drilling Co.	9-8-58	780 Dr	218	4 Oh	191	---	---	---
20R5	J. Stanko	Triangle Drilling Co.	1958	780 Dr	243	4 Oh	180	---	---	---
21A1	B. Houser	Lewell Well and Pump Co.	---	750 Dr	86	2 S; 60g	---	---	---	---
21A2	M. Jephall	Lewell Well and Pump Co.	---	780 J	90	2 S; 4ft., 60g. dia 1	---	---	---	---
21E1	A. Warkfield	Hub Plumbing Co.	10-25-55	745 J	68	2 S; 4ft., 60g. dia 1	---	---	---	---
21C2	L. Lapala	Hub Plumbing Co.	12-18-56	730 J	71	2 S; 4ft., 60g. dia 1	---	---	---	---
21D1	F. R. Gilby	Lewell Well and Pump Co.	---	740 J	57	2 S; 60g	---	---	---	---

Water has hydrogen sulfide gas.
Yield 12 gpm; Ca, L.
Water has hydrogen sulfide gas; Ca.
Little dd reported pumping 12 gpm; Ca, L.
Dd 20 ft after 5 hr pumping 10 gpm; L. Screen changed 3 times. Ca.
Yield 10 gpm; L.
Dd 15 ft after 1 hr pumping 9 gpm; L. Yield 165 gpm; water from overlying gravel floored 50 gpm; Ca, L. Temperature 52 F.
Dd 3 ft after 2 hr pumping 10 gpm; L. Dirty sand overlain by 40 ft clay
Little dd reported after 5 hr pumping 30 gpm. Yield 7 gpm; L.
Little dd reported pumping 9 gpm; L.
Dd 9 ft pumping 9 gpm; see log well 20R5.
Dd 15 ft pumping 9 gpm; Ca, L.
Yield 9 gpm; L.
Ca.
Yield 9 gpm; L.

Table 2. --Records of wells and test holes in Lake County, Indiana--Continued

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land surface (feet)	Diameter of well (inches)	Finish	Depth to bedrock (feet)	Water-bearing zone			Type of pump and horsepower	Remarks	
										Thickness (feet)	Character	Geologic age			
24/9W-21D2	P. Malavolta	Sheehy Well and Pump Co.	1955	740	Dr	190	4	4 Oh	173(?)	173(?)	S	C	70	D	Ca.
21F1	J. Blackwell	Hub Plumbing Co.	4-1-57	760	J	71	2	2 S; 4ft, 60g. dia 1	---	55	Pl	C(?)	55	D	L.
21F2	K. Meechel	-----do-----	1956	760	J	70	2	-----do-----	---	---	Pl	C(?)	50	D	Ca.
21F3	E. R. Pullins	-----do-----	5-5-55	755	J	71	2	-----do-----	---	---	Pl	C(?)	55	D	Ca.
21H1	Mr. Ross	Sheehy Well and Pump Co.	1955	770	Dr	175	3	3 Oh	160(?)	160(?)	S	C	45	D	Ca.
21J1	B. G. Sloan	Hub Plumbing Co.	12-17-48	765	J	139	2	2 S; 3.5ft, 100g. dia 1	---	---	Pl	---	---	L	Ca. Yield 30 gpm; L.
21J2	Franciscan Fathers Cedar Lake Golf Club	Kramer Bros. Lowell Well and Pump Co.	-----	770	J	152	2	2 S; 60g	---	---	Pl	---	---	L	Ca. Yield 30 gpm; L.
21N1	G. Raeth	Hub Plumbing Co.	6-12-53	785	J	86	2	2 S; 4ft, 60g. dia 1	---	---	Pl	---	---	L	Yield 9 gpm; L.
22D1	A. Shubert	Lowell Well and Pump Co.	5-26-56	740	J	127	2	-----do-----	---	120	Pl	C(?)	56	D	Yield 9 gpm; see log well 22D1.
22D2	G. Dickinson	-----do-----	5-2-50	750	J	129	2	-----do-----	---	120	Pl	C(?)	56	D	Yield 9 gpm; see log well 22D1.
22D3	Mr. Zurawski	Sheehy Well and Pump Co.	1955	740	Dr	180	4	4 Oh	165(?)	165	S	C	50	D	---
22D4	W. C. Wagner	Hub Plumbing Co.	5-30-49	740	J	124	2	2 S; 4ft, 60g. dia 1	---	---	Pl	C(?)	---	D	---
22H1	Mr. Borg	Sheehy Well and Pump Co.	1955	720	Dr	142	3	3 Oh	130(?)	130(?)	S	C	14(?)	D	---
22H2	J. Grosser	-----do-----	1955	740	Dr	182	3	3 Oh	170(?)	170(?)	S	C	50(?)	D	---
22H3	Elless Funeral Home	-----do-----	7-5-50	730	Dr	175	4	4 Oh	158(?)	158(?)	S	C	50(?)	D	---
22H4	Mr. Gosson	-----do-----	1955	710	Dr	130	3	3 Oh	120(?)	120(?)	S	C	4(?)	D	---
22H5	Mr. Ackerman	Hub Plumbing Co. Lowell Well and Pump Co.	2-26-48	720	J	124	2	2 S; 4ft, 60g. dia 1	---	---	Pl	---	---	D	At Schiller School.
22N1	Trustees Hanover Township	-----do-----	-----	740	J	48	2	2 S; 60g	---	---	Pl	---	---	D	At Schiller School.
22Q1	R. Evans	Peterson Bros. Nelson Well and Pump Service	3-12-57	710	Dr	148	4	4 Oh	140	140	S	C	30	D	Dr 3 ft pumping 5 gpm; L.
22Q2	C. Fortier	Lowell Well and Pump Co.	3-10-56	710	J	94	2	2 S; 5ft, 80g. dia 1	---	---	Pl	---	---	D	---
22Q3	H. Snoden	-----do-----	12-12-55	700	J	130	2	2 Oh	134	134	S	C	---	D	---
22Q4	Mr. Askron	Sheehy Well and Pump Co.	1955	705	Dr	140	3	3 Oh	130(?)	130(?)	S	C	9	D	---
23A1	D. Fuchs	-----do-----	1955	770	Dr	225	3	3 Oh	180(?)	180(?)	S	C	80(?)	D	Ca.
23B1	Mr. Hendrickson	-----do-----	1955	760	Dr	222	3	3 Oh	190(?)	190(?)	S	C	80(?)	D	Ca.
23C2	A. Doty	Hub Plumbing Co.	6-29-51	760	J	83	2	2 S; 4ft, 60g. dia 1	---	---	Pl	---	---	D	Screen changed three times.
23B3	F. Rooney	-----do-----	8-13-46	755	J	85	2	-----do-----	---	---	Pl	---	---	D	Screen changed three times.
23C1	M. Shearer	Sheehy Well and Pump Co.	1955	705	Dr	180	3	3 Oh	138(?)	138(?)	S	C	17(?)	D	---
23C2	M. Pahnke	Hub Plumbing Co.	3-31-55	740	J	94	2	2 S; 4ft, 60g. dia 1	---	---	Pl	---	---	D	---
23C3	M. Shearer	Lowell Well and Pump Co.	2-16-49	720	J	73	2	-----do-----	---	---	Pl	---	---	D	---
23D1	Salermans Society	-----do-----	1956	740	Dr	189	3	3 Oh	186	186	S	---	---	D	Screen changed four times.
23D2	H. Goltz	Hub Plumbing Co.	8-4-54	750	J	91	2	2 S; 4ft, 60g. dia 1	---	---	Pl	---	---	D	---
23E1	Mr. Wedge	-----do-----	6-11-55	710	J	95	2	-----do-----	---	---	Pl	---	---	D	---
23E2	E. Bapple	-----do-----	3-24-55	715	J	85	2	-----do-----	---	---	Pl	---	---	D	---
23E3	A. Annerud	Sheehy Well and Pump Co.	-----	700	Dr	147	4	4 Oh	130	130	S	C	6	P	Ca. L.
23F1	Mr. Rulo	Hub Plumbing Co.	7-2-55	760	J	95	2	2 S; 4ft, 60g. dia 1	---	72	Pl	C	46	---	Yield 6 gpm; L.
23F2	C. Humel	Hub Plumbing Co. Lowell Well and Pump Co.	3-28-52	760	J	85	2	-----do-----	---	---	Pl	C	5	D	---
23F3	W. Keepe	Lowell Well and Pump Co.	-----	700	J	104	2	2 S; 80g	---	---	Pl	C	---	D	---
23F4	F. Stobbart	R. Robbison	7-18-50	760	Dr	247	4	4 Oh	194	194	S	C	05	---	Dr 3 ft after 3 hr pumping 10 gpm; L. Yield 15 gpm.
23G1	C. and T. Cremons	Sheehy Well and Pump Co.	3-56	770	Dr	227	3	3 Oh	207	207	S	C	75	D	---
23G2	J. Mitch	-----do-----	1955	765	Dr	221	3	3 Oh	195(?)	195(?)	S	C	72	D	---

Well No.	Owner	Company	Date	Depth (ft)	Flow (gpm)	Pressure (psi)	Water Quality	Notes
2303	Mr. Joncs	Hub Plumbing Co.	11-8-54	765 Dr	224	190(?)	J Oh	195(?)
2304	D. McCarthy	Hub Plumbing Co.	12-55	770 Dr	258	195(?)	J Oh	200
2305	J. Sullivan	R. Robinson	6-10-56	760 Dr	235	203	J Oh	203
2306	J. Walkers	Hub Plumbing Co.	11-8-54	760 J	101		2 S; 4ft, 60G, dia 1	190(?)
2307	F. Patrick Jr.	Hub Plumbing Co.	8-51	705 J	80		2 S; 4ft, 60G, dia 1	195(?)
2308	C. Manley	Hub Plumbing Co.	9-1-54	780 J	84		2 S; 4ft, 60G, dia 1	203
2309	G. Swaney	Hub Plumbing Co.	5-24-53	765 J	75		2 S; 4ft, 60G, dia 1	
2310	J. Cliek	Hub Plumbing Co.	3-21-56	760 J	01		2 S; 4ft, 60G, dia 1	
2311	A. Y. Hoffer	Hub Plumbing Co.	11-10-56	765 J	88		2 S; 4ft, 60G, dia 1	
2312	D. Johnson	Hub Plumbing Co.	11-12-55	770 J	88		2 S; 80G	
2313	G. Hezier	Lozell Well and Pump Co.	11-12-55	770 J	88		2 S; 80G	
2314	G. McIntosh	Hub Plumbing Co.	1955	770 Dr	244		J Oh	202
2315	L. Verner	Shoehy Well and Pump Co.	4-16-56	750 J	71		2 S; 4ft, 60G, dia 1	50
2316	Mr. Paquette	Hub Plumbing Co.	1956	780 Dr	218		2 S; 4ft, 60G, dia 1	197
2317	G. Kokkios	Hub Plumbing Co.	7-6-49	780 J	78		2 S; 4ft, 60G, dia 1	
2318	J. Potts	Lozell Well and Pump Co.	7-6-49	700 J	45		2 S; 80G	
2319	G. Hetzler	Hub Plumbing Co.	8-55	710 J	54		2 S; 80G	
2320	J. O. Johnson	Shoehy Well and Pump Co.	8-55	740 Dr	235		4 Oh	184
2321	Mr. Otto	Hub Plumbing Co.	1955	740 Dr	204		3 Oh	185
2322	O. Kehr	Hub Plumbing Co.	5-11-55	740 J	86		2 S; 4ft, 60G, dia 1	
2323	A. DoKoski	Hub Plumbing Co.	4-23-56	720 J	78		2 S; 4ft, 60G, dia 1	
2324	M. Stife	Shoehy Well and Pump Co.	2-1-57	710 Dr	168		3 Oh	150
2325	S. Briggs	Lozell Well and Pump Co.	1055	710 Dr	179		4 Oh	165(?)
2326	J. Carnohorsky	Shoehy Well and Pump Co.	9-56	750 Dr	250		4 Oh	203
2327	T. K. Taylor	Hub Plumbing Co.	3-56	750 Dr	228		4 Oh	198
2401	R. Bowman	Hub Plumbing Co.	11-7-50	760 J	82		2 S; 4ft, 60G, dia 1	
2402	F. Samantingor	Hub Plumbing Co.	6-6-52	780 J	84		2 S; 4ft, 60G, dia 1	
2403	L. Cooper	Hub Plumbing Co.	6-12-51	760 J	86		2 S; 5ft, 80G, dia 1	
2404	C. Bennett	Hub Plumbing Co.	6-15-54	740 J	88		2 S; 4ft, 60G, dia 1	
2405	J. Klonaba	Lozell Well and Pump Co.	12-6-48	700 J	89		2 S; 4ft, 60G, dia 1	
2406	L. Wakefield	Hub Plumbing Co.	1-24-57	740 J	72		2 S; 60G	
2501	N. Stracke	Hub Plumbing Co.	4-14-54	750 J	73		2 S; 4ft, 60G, dia 1	
2502	J. Ray	J. R. Stinnott	7-5-55	750 J	65		2 S; 4ft, 60G, dia 1	
2503	J. Solnerth	Wrook Well Drilling	1-15-57	725 J	66		2 S; 4ft, 80G	
2504	J. G. Nubal	Shoehy Well and Pump Co.	2-55	740 Dr	220		4 Oh	185
2505	M. Kretz	Lozell Well and Pump Co.		735 J	57		2 S; 60G	
2506	H. W. Ahorn	Hub Plumbing Co.	8-2-47	695 J	60		2 S; 4ft, 60G, dia 1	
2507	C. Flock	Shoehy Well and Pump Co.		710 Dr	152		3 Oh	146
2508	G. Fleming	Hub Plumbing Co.	6-2-52	700 J	42		2 S; 3.5ft, 60G, dia 1	
2509	F. Deising	Shoehy Well and Pump Co.	1955	710 Dr	149		4 Oh	138(?)
2510	Mr. Klong	Hub Plumbing Co.	1955	710 Dr	151		4 Oh	140(?)
2511	Mr. Caulfield	R. Robinson	7-2-56	735 Dr	215		3 Oh	184
2512	J. Owen	Wrook Well Drilling	3-22-57	715 Dr	161		3 Oh	154
2513	A. Dunge	Shoehy Well and Pump Co.	7-55	715 Dr	156		3 Oh	144
2514	Mr. Amund	Hub Plumbing Co.	1955	720 Dr	187		4 Oh	170(?)
2515	L. Strickland	Lozell Well and Pump Co.	5-11-56	710 J	88		2 S; 4ft, 60G	30
2516	Mr. Fryo	H. F. Natilliz		700 J	90		2 S; 80G	

2 ft after 3 hr pumping 10 gpm; L.
 Limestone overlain by 8 ft shalo.
 Yield 10 gpm; L.
 Yield 30 gpm; L.
 Little od reported pumping 30 gpm.
 Yield 15 gpm; L.
 Yield 15 gpm; see log well 2381.
 Ca.
 Observation well Lake 7; water level measured 00.17 ft below Lad, J-12-57.
 Ca, L.
 Little od reported after 3 hr pumping 12 gpm; limestone overlain by J4 ft heaving sand.
 Yield 18 gpm; L.
 Yield about 30 gpm; L.
 Yield 13 gpm; water has slight odor hydrogen sulfide gas; L.
 Ca.
 3 ft after 3 hr pumping 10 gpm; L.
 Little od reported after 1 hr pumping 18 gpm; L.
 Yield about 30 gpm; see log well 2611.
 L.

Table 2.--Records of wells and test holes in Lake County, Indiana--Continued

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Depth to bedrock (feet)	Water-bearing zone			Water level (feet)	Use	Type of pump and horsepower	Remarks
										Character	Thickness (feet)	Geologic zone				
34/BW-26N3	O. Klrate	Shooby Well and Pump Co.	1955	700 Dr	226	4 Oh		175	155(?)	51	La	S	C	25 D	---	---
26M4	Mr. Segrest	Lowell Well and Pump Co.	1955	710 Dr	164	3 Oh		153	153	11	La	S	C	22 D	---	---
26P1	C. Roeder	Hub Plumbing Co.	5-10-49	710 J	96	2 S; 4 ft. 60g. dia 1		---	150(?)	---	Sd	Pi	C	---	---	---
26Q1	Dr. Miesch	Shooby Well and Pump Co.	1955	710 Dr	187	4 Oh		---	150(?)	37(?)	La	S	C	---	---	---
26Q2	Mr. Valton	Hub Plumbing Co.	1955	720 Dr	182	4 Oh		---	165(?)	17(?)	La	S	C	50(?) D	---	---
26Q3	R. Robinson	Hub Plumbing Co.	7-8-54	720 J	65	2 S; 4.5 ft. 60g		---	---	32	Sd	Pi	C	---	---	---
26Q4	R. Hoehst	Hub Plumbing Co.	7-26-55	720 J	97	2 S; 4 ft. 60g. dia 1		---	---	60	Sd	Pi	C	---	---	---
26Q5	V. Chrest	Hub Plumbing Co.	1-10-57	725 J	92	2 S; 4 ft. 60g. dia 1		---	---	84	Sd	Pi	C	---	---	---
26R2	M. Felling	Hub Plumbing Co.	4-27-48	720 J	93	2 S; 4 ft. 60g. dia 1		---	---	---	Sd	Pi	C	---	---	---
26R3	Mr. Chapball	Shooby Well and Pump Co.	1955	720 Dr	177	3 Oh		---	163(?)	14(?)	La	S	C	30(?) D	---	---
26R4	J. Wilkin	Hub Plumbing Co.	10-23-48	720 Dr	45	2 S; 4 ft. 60g. dia 1		---	---	---	Sd	Pi	C	---	---	---
27C1	H. O'Brien	Hub Plumbing Co.	2-15-55	720 J	102	2 S; 4 ft. 60g. dia 1		---	---	---	Sd	Pi	C	---	---	---
27E1	S. G. Drellin	Hub Plumbing Co.	10-31-52	710 J	103	2 S; 4 ft. 80g. dia 1		---	---	---	Sd	Pi	C	---	---	---
27E2	T. H. Lindeman	Hub Plumbing Co.	11-19-48	710 J	72	2 S; 4 ft. 80g. dia 1		---	---	---	Sd	Pi	C	---	---	---
27E3	T. Craig	Hub Plumbing Co.	1-6-52	710 J	89	2 S; 4 ft. 80g. dia 1		---	---	---	Sd	Pi	C	---	---	---
27L1	Conference Ground	Shooby Well and Pump Co.	1955	720 Dr	173	4 Oh		---	160(?)	13(?)	La	S	C	18(?) D	---	---
27P1	L. Wielecki	Hub Plumbing Co.	1955	710 Dr	159	4 Oh		---	146(?)	13(?)	La	S	C	20(?) D	---	---
27Q1	Geopol Light House	Hub Plumbing Co.	0-2-55	700 J	50	2 S; 4 ft. 60g. dia 1		---	---	---	Sd	Pi	C	---	---	---
28A1	R. King	Shooby Well and Pump Co.	9-52	745 Dr	191	5 Oh		---	175	16	La(?)	S	C	70 D	---	---
28C1	S. Krebs	Triangle Drilling Co.	8-27-57	745 Dr	186	4 Oh		---	105	21	La(?)	S	C	46 D	---	---
28D1	F. F. Runyon	Worce Well Drilling Co.	---	760 J	80	2 S; 4 ft. 80g. dia 1 1/2		---	---	---	Sd	Pi	C	---	---	---
28D2	D. R. Halley	Lowell Well and Pump Co.	---	760 J	133	2 S; 80g		---	---	---	Sd	Pi	C	---	---	---
28D3	C. Myers	Triangle Drilling Co.	5-28-57	755 Dr	232	4 Oh		---	173	59	La(?)	S	C	62 D	---	---
28D4	L. Shankard	Triangle Drilling Co.	5-13-57	750 J	56	2 S; 3 ft. 60g. dia 1		---	---	---	Sd	Pi	C	---	---	---
28D5	W. Jablonsky	Peteresen Bros.	4-5-58	755 Dr	174	4 Oh		---	170	4	La	S	C	60 D	---	---
28E1	Mr. Hoefker	Shooby Well and Pump Co.	1955	740 Dr	185	3 Oh		---	160(?)	25	La	S	C	52(?) D	---	---
28H1	Mr. Magor	Hub Plumbing Co.	1955	730 Dr	176	4 Oh		---	160(?)	16(?)	La	S	C	31(?) D	---	---
28H2	Mr. Halman	Hub Plumbing Co.	1955	740 Dr	254	4 Oh		---	160(?)	74(?)	La	S	C	110(?) D	---	---
28N2	Mr. Gerhart	Hub Plumbing Co.	1955	740 Dr	219	3 Oh		---	190(?)	28(?)	La	S	C	63(?) D	---	---
29A1	Mr. Standard Station	Hub Plumbing Co.	1955	765 Dr	243	3 Oh		---	185(?)	55(?)	La	S	C	83(?) D	---	---
29F1	Mr. Donschlein	Hub Plumbing Co.	1955	725 Dr	224	4 Oh		---	190(?)	34(?)	La	S	C	25(?) D	---	---
29J1	Mr. Sabersiak	Lowell Well and Pump Co.	1955	740 Dr	207	2 Oh		---	185(?)	22(?)	Sd	Pi	C	80(?) D	---	---
29J2	C. Harron	Lowell Well and Pump Co.	9-10-56	730 J	52	2 S; 60g		---	---	---	Sd	Pi	C	40 D, S	---	---
29M1	Mr. Duxal	Hub Plumbing Co.	4-23-55	740 J	107	2 Oh		---	---	---	Sd	Pi	C	54 D	---	---
30D1	E. Reichert	Wohling Well Works	1952	725 Dr	198	4 Oh		---	187	31	La(?)	S	C	30 D	---	---
30T2	A. Slemeyer	Shooby Well and Pump Co.	1949	725 Dr	220	4 Oh		---	172	48	La(?)	S	C	30 D	---	---
31R1	E. Myers Farm	Shooby Well and Pump Co.	12-26-56	870 Dr	128	4 Oh		---	71	57	La	S	C	---	---	---
32E1	A. Luebker	Hub Plumbing Co.	Before 1920	870 Dr	300	10-6 Oh		---	90	210	La	S	C	---	---	---

Remarks: Limestone overlain by shale; water in shale had slight odor hydrogen sulfide gas.

Yield 7 gpm; L.

Do 10 ft pumping 25 gpm; L.

Yield 6 gpm; L.

Little od reported after 2 hr pumping 7 gpm; L.

Yield 7 gpm; L.

Do 20 ft after 6 hrs pump- ing 10 gpm; L.

Ca.

Temperature 52° F.

Ca.

Flows; yield 8 gpm; Ca, L.

Flows 30 gpm water level measured 22 ft above land 8-20-54; originally drilled as oil well to 1,400 ft; plugged at 900 ft; tempera- ture 51.5° F.

Well No.	Owner	Date	Depth	Flow	Pressure	Temp	Notes	Yield	Quality	Remarks
3201	D. Bales	7-58	740 J	2 S; 60g	71		Lowell Well and Pump Co.	152	C(?)	Spring issuing from sandy zone in till; yield 7 gpm measured 10-26-56; Ca.
3202	A. Bush	7-58	740 J	2 S; 60g	67		Lowell Well and Pump Co.	152	C(?)	Yield 50 gpm; Ca, L.
3203	Dr. Misch	7-58	700 Dr	4 Oh	189		Lowell Well and Pump Co.		C(?)	
3204	F. Magner		710 J	2 S; 60g	49		Lowell Well and Pump Co.		C(?)	Screens changed three times.
3205	M. Korauner	8-24-55	710 J	2 S; 4ft, 60g, dia 1	49		Hub Plumbing Co.		C(?)	
3206	P. Schinke	5-1-47	720 J	2 S; 80g	30		Hub Plumbing Co.		C(?)	
3207		8-29-50	720 J	2 S; 60g	37				C(?)	
3208		8-30-50	720 J	2 S; 60g	37				C(?)	
3209		9-28-40	720 J	2 S; 4ft, 60g, dia 1	45				C(?)	
3210	Mr. Halstrom	10-20-53	700 J	2 S; 60g	33				C(?)	
3211	Mr. Hoffmann	3-28-47	700 J	3 Oh	05				C	Dd 4 ft after 3 hr pumping 10 gpm; L.
3212	A. N. Krier	3-16-56	730 Dr	3 Oh	214				C	Dd 4 ft after 3 hr pumping 10 gpm; L.
3213	F. Hain	7-18-55	720 Dr	4 Oh	205				C	Dd 4 ft after 3 hr pumping 10 gpm; L.
3214	F. Hodorowicz	10-55	730 Dr	3 Oh	108				C	Dd 4 ft after 4 hr pumping 10 gpm; L.
3215	Mr. McLeod	7-1-55	720 Dr	4 Oh	219				C	Dd 7 ft after 2 hr pumping 10 gpm; L.
3216	C. Vogt	9-25-37	720 J	2 S; 60g	67				C	Dd 12 ft after 3 hr pumping 50 gpm; L.
3217	R. Karnor	6-30-54	710 Dr	3 Oh	220				C	
3218	R. Surridge	2-7-56	690 Dr	4 Oh	170				C	
3219	B. Dordrey	7-8-55	690 J	2 S; 5ft, 60g	68				C	
3220	Mr. Ashcraft	6-23-55	730 J	2 S; 4ft, 60g, dia 1	104				C	Ca. Yield 13 gpm.
3221	H. E. Sidus	8-3-55	720 J	2 S; 5ft, 60g	53				C	Yield about 10 gpm; L.
3222	F. Neal	7-11-55	730 J	2 S; 2.5ft, 60g, dia 1	56				C	
3223	Mr. Ballou	7-6-37	720 J	2 S; 3.5ft, 60g	39				C	
3224	Surprise Park		700 J	2 S; 80g	35				C	
3225	A. Denny		710 J	2 S; 60g	42				C	
3226	H. Dickel	10-23-58	720 J	2 S; 60g	60				C	
3227	R. Nixon	1950	700 Dr	5 Oh	340				C	
3228	W. Schannon	1950	700 Dr	5 Oh	119				C	
3229	A. Jensen	1950	720 Dr	5 Oh	184				C	
3230	A. Plopp	1950	720 Dr	5 Oh	155				C	
3231	H. Brands	1948	720 Dr	5 Oh	156				C	
3232	H. Krudup	0-55	725 Dr	4 Oh	189				C	
3233	E. Bell	11-8-58	750 Dr	4 Oh	203				C	Dd 10 ft after 1 hr pumping 23 gpm; Ca, L.
3234	G. Willy	3-31-52	700 J	2 S; 80g	33				C	Yield 25 gpm.
3235	W. Husman	10-55	730 Dr	2 S; 60g	208				C	
3236	J. Leaman		725 J	2 S; 60g	80				C	
3237	A. Bunte	3-55	730 Dr	5 Oh	205				C	Well originally 42 ft deep; deepened 5-14-48.
3238		4-13-47	730 J	2 S; J. 5ft, 80g, dia 1	73				C	Yield 20 gpm; L.
3239	W. Gruppe	10-13-55	600 J	2 S; 4ft, 60g	29				C	Yield 9 gpm; Ca, L.
3240	Hobart Greenhouse	8-31-54	635 Dr	2 S	18				C	Yield 23 gpm; fine sand overlain by 32 ft top soil and blue clay.
3241	G. McGrann	7-7-55	650 J	2 S; 4ft, 60g	67				C	Yield 23 gpm; fine sand overlain by 63 ft top soil and blue clay.
3242	J. Berndt	6-15-55	635 J	3 S; 5ft, 60g, dia 2	47				C	Yield 12 gpm.
3243	Mr. Brown	Summer 1953	600 J	3	84				C	Yield 50 gpm; coarse sand overlain by 48 ft blue clay.
3244	Mr. Glueck	Summer 1955	610 J	2 S; 4ft, 60g, dia 1	66				C	Yield 50 gpm; medium sand overlain by 36 ft blue clay.
3245		3-10-58	660 J	3 S; 6ft, 60g	54				C	Yield 33 gpm.
3246	J. J. Butler	11-19-55	690 J	3	48				C	Yield 30 gpm.
3247		6-2-56	835 J	2 S; 4ft, 60g	44				C	
3248	P. S. Bator	7-31-50	655 J	2 S; 4ft, 60g, dia 1	73				C	Yield 33 gpm; Ca, L.
3249	G. Pavel								C	

Table 2.--Records of wells and test holes in Lake County, Indiana--Continued

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land surface (feet)	Diameter of well (inches)	Finish	Depth to bedrock (feet)	Water-bearing zone						Remarks	
										Depth to top (feet)	Thickness (feet)	Character	Geologic age	Condition of occurrence	Water level (feet)		Use
35/78-17A1	E. Myers	Porter County Well Service	7-23-56	665 J	49	2 1/2	4 ft., 60k		38	11	Sd, G	Pl	U	38	D	J	Yield 15 gpm; L.
1791	Mr. Sims	Hub Plumbing Co.	6-7-55	680 J	86	2 1/2	4 ft., 60k, dia 1				Sd	Pl		60	D	J	
18A1	J. Hecimovitch	Nelson Well and Pump Service	8-12-55	650 J	74	2 1/2	3.5 ft., 60k, dia 1				Sd	Pl			D	J	
18A2	P. Hecimovitch	Fitzgerald Well and Pump Co.	8-8-56	650 J	73	2 1/2	3 ft., 60k		36	44	Sd	Pl	C	6	D	J	Yield 13 gpm; Ca, L.
18E1	C. J. Kinmer	Hub Plumbing Co.	11-6-46	650 J	48	2 1/2	4 ft., 60k, dia 1				Sd	Pl			D	J	
18E2	M. Angerman	Nelson Well and Pump Service	7-19-53	660 J	58	2 1/2	3.5 ft., 60k, dia 1				Sd	Pl			D	J	
18E3	S. Hobbs	-----do-----	9-11-53	660 J	38	2 1/2	3.5 ft., 60k, dia 1		33	13	Sd, G	Pl	C	30	D	J	Yield 10 gpm; L.
18E4	G. T. Kora	-----do-----	7-59	660 J	46	2 1/2	3.5 ft., 60k, dia 1		34	3	Sd, G	Pl	C	23	D	J	
18E5	P. Vale	Westville Well Co.	7-28-59	650 J	36	2 1/2	3 ft., 60k, dia 1		34	3	Sd, G	Pl	C	75	D	J	
20F1	S. Williams	Hub Plumbing Co.	7-31-53	710 J	116	2 1/2	4 ft., 60k, dia 1				Sd	Pl		60	D	J	
20J1	H. Harper	-----do-----	12-28-51	690 J	76	2 1/2	3.5 ft., 60k, dia 1				Sd	Pl			D	J	
20J2	J. Wesley	-----do-----	8-24-50	690 J	74	2 1/2	3.5 ft., 60k, dia 1				Sd	Pl			D	J	
20J3	-----do-----	-----do-----	9-13-48	690 J	63	2 1/2	3.5 ft., 60k, dia 1				Sd	Pl			D	J	
20J4	-----do-----	-----do-----	11-22-49	690 J	63	2 1/2	3.5 ft., 60k, dia 1				Sd	Pl			D	J	
20K1	G. Masak	Lowell Well and Pump Co.	-----do-----	700 J	77	2 1/2	3.5 ft., 60k				Sd	Pl		30	D	J	
21A1	Mr. Wood	Fitzgerald Well and Pump Co.	8-16-56	655 J	41	2 1/2	3 ft., 60k		37	5	Sd	Pl	C	14	D	J	Yield 8 gpm; medium sand overlain by 15 ft blue clay.
21A2	A. Anders	Porter County Well Service	5-2-56	650 J	18	2 1/2	3.5 ft., 60k, dia 1		13	5	Sd	Pl	C	12	D	J	Yield 15 gpm; L.
21C1	K. Bacsler	-----do-----	5-7-56	675 J	61	2 1/2	4 ft., 60k		43	18	G, Sd	Pl	C	27	D	J	Yield 16 gpm; Ca, L.
21F1	E. Bucheuer	-----do-----	10-30-56	662 J	50	2 1/2	-----do-----		34	16	Sd, G	Pl	C	23	D	J	Yield 18 gpm; Ca, L.
21L1	Indiana State Highway Department	K. Foley	8-57	678 Dr	200	-----	-----do-----	170	179	21	La(?)	D(?)	C	65	P	J	
35/8W-2E1	D. Reinhart	J. Eich and Son Well and Pump Service	8-11-59	645 J	66	2 1/2	3.5 ft., 60k, dia 1		46	21	Sd, G	Pl	C	44	D	J	Yield 12 gpm; L.
35/8W-2E1	Mr. Bessak	-----do-----	4-12-50	620 J	32	2	-----do-----				Sd	Pl			D	J	
35/8W-2E1	Mr. Bessak	-----do-----	8-20-54	640 J	52	2 1/2	4 ft., 60k, dia 1		30	19	Sd	Pl	C	15	N	J	
35/8W-2E1	Mr. Bessak	-----do-----	11-1-56	635 J	45	2 1/2	3.5 ft., 60k, dia 1				Sd	Pl			D	J	
35/8W-2E1	Mr. Bessak	-----do-----	10-27-54	630 J	32	2 1/2	3.5 ft., 60k, dia 1				Sd	Pl			D	J	
35/8W-2E1	Mr. Bessak	-----do-----	7-7-49	640 J	33	2 1/2	60k		30	33	Sd, G	Pl	C	22	D	J	Yield 11 gpm; Ca, L.
35/8W-2E1	Mr. Bessak	-----do-----	8-7-59	632 J	62	2 1/2	3.5 ft., 60k, dia 1		22	5	G, Sd	Pl	C	12	D	J	Yield 45 gpm; coarse sand overlain by 31 ft blue clay.
35/8W-2E1	Mr. Bessak	-----do-----	7-23-59	635 J	27	2 1/2	3 ft., 40k		31	19	Sd	Pl	C	15	D	J	Have two 2-inch wells 40 ft deep.
35/8W-2E1	Mr. Bessak	-----do-----	3-28-56	620 J	46	1 1/2	3 ft., 60k, dia 1 1/2				Sd	Pl			D	J	For swimming pool.
35/8W-2E1	Mr. Bessak	-----do-----	-----do-----	620 Dr	69	4 1/2	-----do-----				Sd	Pl		7	---	J	
35/8W-2E1	Mr. Bessak	-----do-----	7-1-54	625 Dr	63	4 1/2	10 ft., 7 1/2", dia 2				Sd	Pl			D	J	Yield 15 gpm; Ca, L.
35/8W-2E1	Mr. Bessak	-----do-----	6-16-54	620 J	50	2 1/2	3.5 ft., 60k, dia 1				Sd	Pl			D	J	Water has hydrogen sulfide gas.
35/8W-2E1	Mr. Bessak	-----do-----	2-12-49	625 J	48	2 1/2	4 ft., 60k, dia 1		27	21	Sd	Pl	C	12	D	J	
35/8W-2E1	Mr. Bessak	-----do-----	6-4-59	630 Dr	132	-----	-----do-----	140	140	12	La(?)	D(?)	C		P	J	
35/8W-2E1	Mr. Bessak	-----do-----	4-26-54	630 J	28	2 1/2	3.5 ft., 60k, dia 1				Sd	Pl			D	J	
35/8W-2E1	Mr. Bessak	-----do-----	11-17-53	630 J	40	2	-----do-----				Sd	Pl			D	J	
35/8W-2E1	Mr. Bessak	-----do-----	10-13-53	630 J	72	2 1/2	3.5 ft., 60k, dia 1		32	40	Sd	Pl	C(?)	9	D	J	
35/8W-2E1	Mr. Bessak	-----do-----	0-24-53	630 J	42	2 1/2	3.5 ft., 60k, dia 1				Sd	Pl			D	J	
35/8W-2E1	Mr. Bessak	-----do-----	5-3-54	640 J	35	2 1/2	4 ft., 60k, dia 1				Sd	Pl			D	J	

ID	Name	Address	Date	Flow	Depth	Notes	Pressure	Temp	Yield	Remarks
15/8/13E1	G. Churchill	Nelson Well and Pump Service	1-10-55	080 J	46	2 S; 3.5ft, 60g, dia 1	Sd			
131H	W. Chalup	do	2-25-54	555 J	37	do	Sd			
131E	D. Kleins	do	7-24-53	880 J	36	do	Sd			
131I	J. Lavalle	do	8-20-55	660 J	63	do	Sd			
131J	Mr. Markanock	J. Rich and Son	7-21-59	660 J	68	2 S; 5ft, 60g, dia 1	Sd			Yield 12 gpm; L.
131K	J. M. Restovsky	Gary W. J. and Pump Co	7-20-59	660 J	68	2 S; 4ft, 60g, dia 1	Sd			Yield 12 gpm; Ca, L.
14E1	D. Lovall	Nelson Well and Pump Service	4- 7-54	640 J	42	2 S; 3.5ft, 60g, dia 1	Sd			
14E2	V. McColly	do	6-11-56	640 J	42	do	Sd			
14H	W. B. Cottrill	do	6-11-55	660 J	50	do	Sd			
15E1	R. Cook	do	7- 0-56	650 J	52	do	Sd			
15E2	R. Cook	do	2-30-53	650 J	52	do	Sd			
15E3	F. Keibash	do	7-14-54	650 J	54	do	Sd			
15E4	Church of Christ	do	11- 3-53	650 J	29	do	Sd			
15E5	K. Dzurazy	do	7-11-53	650 J	32	do	Sd			
15E6	Little Longue Hall	do	3-31-54	650 J	35	do	Sd			
15E7	C. A. Wachtler	J. Rich and Son	7-17-59	650 J	48	2 S; 5ft, 60g	Su			Yield 13 gpm; L.
15F1	C. Bogan	Nelson Well and Pump Service	12- 3-55	680 J	50	2 S; 3.5ft, 60g, dia 1	Sd			
15N1	N. Guedtke	do	6-16-55	650 J	56	do	Sd			
15P1	R. F. Flord	Hub Plumbing Co.	7-24-52	655 J	50	2 S; 4ft, 60g, dia 1	Sd			
15P2	do	do	7-22-52	655 J	47	do	Sd			
15P3	B. Dronation	do	7- 1-52	655 J	47	do	Sd			
15P4	do	Nelson Well and Pump Service	6-27-53	650 J	56	2 S; 3.5ft, 60g, dia 1	Sd			
161H	Chenpenako and Ohio Railroad Co.	C. R. Miller	1- 8-49	650 Dr	78	4 S; 8ft, 10in	Sd			Yield 10 gpm; Ca, L.
16E2	R. Donme	Nelson Well and Pump Service	4- 5-55	640 J	35	2 S; 3.5ft, 80g, dia 1	Sd			
16J1	Dr. Monfort	J. Rich and Son	7-28-59	630 J	47	2 S; 5ft, 60g, dia 1	Sd			
17D1	B. Adams	Hub Plumbing Co.	9-30-56	640 J	37	2 S; 4ft, 80g, dia 1	Sd			
17P1	L. Pinkston	Wron Well Drilling	7-21-56	660 J	102	2 S; 3.5ft, 80g, dia 1	Sd			
18L1	Mr. Phillips	do	0- 0-50	650 J	50	do	Sd			
18L2	F. Depasalis	Hub Plumbing Co.	9-27-56	660 J	48	2 S; 4ft, 60g, dia 1	Sd			
18L3	H. Duffin	do	1- 5-50	670 J	48	do	Sd			
19K1	L. Wilz	do	7-16-52	685 J	67	do	Sd			
20K1	R. Turkington	do	3- 1-48	805 J	79	do	Sd			
20K2	do	do	12- 9-47	695 J	75	do	Sd			
20K3	do	do	4-30-48	695 J	70	do	Sd			
20K4	do	do	3-22-48	690 J	67	do	Sd			
20K5	McG DeLoo-In	do	4-14-50	685 J	66	do	Sd			
20L1	F. J. Raberty	Wron Well Drilling	8- 0-57	690 Dr	192	4 S; 5ft, 60g	Sh			
20L2	J. W. Boyer	do	1-19-58	690 J	105	2 S; 4ft, 80g, dia 1	Sd			
20L3	F. J. Zablow	do	7- 6-56	680 J	100	2 S; 4ft, 80g, dia 1	Sd			
20L4	F. Wichmann	Hub Plumbing Co.	11-21-55	690 J	91	2 S; 4ft, 60g, dia 1	Sd			
20L5	W. C. Barco	do	8- 8-49	685 J	72	2 S; 60g	Sd			
20L6	W. Schmitz	do	1-12-58	685 J	94	2 S; 4ft, 60g	Sd			
20L7	Mr. J. Zablow	Wron Well Drilling	4-12-56	670 J	94	2 S; 7ft	Sd			
20K1	P. Smith	Hub Plumbing Co.	3-32	690 Dr	92	6 S; 2ft, 14in	Sd			
20P1	Independence Hill Water Works	do	5-51	690 Dr	80	6 S; 15ft, 10in	Sd			
20P2	J. Ebran	Nelson Well and Pump Service	7- 8-55	670 J	60	2 S; 3.5ft, 60g, dia 1	Sd			
22H1	F. Rakoczy	Hub Plumbing Co.	10-26-51	685 J	67	2 S; 4ft, 60g, dia 1	Sd			
22H2	J. Davidson	Nelson Well and Pump Service	9- 2-53	685 J	73	2 S; 3.5ft, 60g, dia 1	Sd			
24E1	J. Reithel	Hub Plumbing Co.	11-13-40	690 J	62	2 S; 4ft, 60g, dia 1	Sd			
26J1	A. and M. Vornigor	do	4-14-63	685 J	40	2 S; 4ft, 80g, dia 1	Sd			
26L1	K. Switzer	do	9- 8-50	710 J	89	2 S; 4ft, 60g, dia 1	Sd			
29G1	K. McNeil	do	6-13-49	705 J	76	do	Sd			
29P1	James O. Parramore Hospital	Layne-Northorn Co., Inc	7-41	720 Dr	103	3 S; 20ft, 105in, dia 14	Sd			Do 33 ft pumping 300 gpm; Ca, L.
29P2	do	do	7- 8-51	720 Dr	89	26 Sp; 5; 20ft, 80in, dia 12	Sd			Do 21 ft pumping 165 gpm; observation well Lake 2; water level measured 64 ft below led, 8-17-54; L.
29P3	do	do	5- 6-40	720 Dr	130	do	Sd			
29P4	do	do	7-29-41	720 Dr	145	do	Sd			
29P5	do	do	6- 2-45	720 J	89	2 S; 4ft, 60g, dia 1	Sd			
30N1	C. Keibash	Hub Plumbing Co.	do	720 J	89	do	Sd			

Table 2.--Records of wells and test holes in Lake County, Indiana--Continued

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land surface (feet)	Diameter of well (inches)	Finish	Depth to bedrock (feet)	Water-bearing zone				Water level (feet)	Use	Remarks
										Depth to top (feet)	Thickness (feet)	Character	Geologic age			
35/8W-3201	E. Wirtz	Hub Plumbing Co.	7-11-53	720 J	83	2 1/2	4 ft., 60 ft., dia 1									
3282	H. Wirtz	Hub Plumbing Co.	7-10-16	720 J	93	2	40									Ca.
3281	H. Wirtz	Hub Plumbing Co.	3-19-52	690 J	112	2	40									
3201	J. Cardinalo	Hub Plumbing Co.	5-6-52	690 J	112	2	40									
3681	P. Dexter	Nelson Well and Pump Service	5-5-55	680 J	46	2	3 1/2 ft., 80 ft., dia 1									
3691	E. Drexler	Hub Plumbing Co.	6-18-51	690 J	79	2 1/2	80 ft., dia 1									
35/9W-121	K. Augusten	Hub Plumbing Co.	1-12-54	025 J	35	2 1/2	4 ft., 80 ft., dia 1									
201	Keen Foundry Co.	Layne-Northern Co., Inc.	4-29-41	625 Dr	70	6 1/2	12 ft., 12 ft.									
232	-----do-----	-----do-----	10-6-52	625 Dr	75	12 1/2	20 ft., dia 10									
201	Griffith Water Dept.	-----do-----	2-5-54	025 Dr	82	38	6 ft., 30 ft., 55 ft., dia 18									
202	-----do-----	-----do-----	10-16-53	625 Dr	85	6	-----do-----									
201	Chesapeake and Ohio Railroad Co.	C. H. Miller	12-7-51	040 Dr	148	4	0 ft.									
231	-----do-----	Layne-Northern Co., Inc.	12-5-39	628 Dr	82	34	6 ft., 30 ft., 105 ft., dia 12									
301	Indiana Pipeline Co.	-----do-----	1-13-13	830 Dr	69	10	6 ft., 12 ft., dia 8									
302	Buckeye Pipeline Co.	-----do-----	5-22-45	630 Dr	40	30	6 ft., 10 ft., 80 ft., dia 9 1/2									
303	-----do-----	-----do-----	4-28-45	830 Dr	65	8	0 ft.									
301	Gatlin Ready Mix	Kramer Bros.	5-56	625 Dr	246	8	0 ft.									
501	Town of Hartsville	J. P. Miller	6-1888	825 Dr	735	8	0 ft.									
901	Indiana Livestock Market Association	Kramer Bros.	8-55	625 Dr	270	6	0 ft.									
902	Cooperative Plant Foods Inc.	J. P. Miller	12-44	625 Dr	252	8	0 ft.									
903	Indiana Farm Bureau Co-op	Shooby Well and Pump Co.	1955	825 Dr	265	6	0 ft.									
901	Pennsylvania Railroad Co.	Kramer Bros.	11-52	630 Dr	212	6	0 ft.									
1301	L. Chorso	Nelson Well and Pump Service	9-22-54	640 J	46	2 1/2	3 ft., 80 ft., dia 1									
1302	C. Burns	Hub Plumbing Co.	1-6-56	650 J	35	2 1/2	4 ft., 60 ft., dia 1									
1401	V. Knight	-----do-----	3-12-56	640 J	34	2	-----do-----									
1491	B. E. Petrus	Shooby Well and Pump Co.	1-54	650 Dr	162	4	0 ft.									
1501	Town of Schorerville	Layne-Northern Co., Inc.	1925(?)	645 Dr	290	10	0 ft.									
1501	Mr. Bagnator	Hub Plumbing Co.	8-20-47	660 J	69	2 1/2	4 ft., 60 ft., dia 1									
1601	Town of Schorerville	Layne-Northern Co., Inc.	10-15-52	660 Dr	32	10-12	0 ft.									
1701	K. Ogden	Shooby Well and Pump Co.	1955	000 Dr	140	3	0 ft.									
1801	V. J. Underwood	Hub Plumbing Co.	4-12-19	030 J	87	2 1/2	5 ft., 60 ft.									
1801	Schilling Bros.	Working Well Works	8-55	650 Dr	122	4	0 ft.									
1802	-----do-----	Trianglet Drilling Co.	1958	050 Dr	140	4	0 ft.									
1803	Mitchell Builders	-----do-----	10-12-57	650 Dr	123	4	0 ft.									
1804	Schilling Bros.	-----do-----	-----	650 Dr	133	4	0 ft.									

Well No.	Owner	Company	Date	Depth	Flow	Pressure	Temp	Notes
1886	Mitchell Builders Schilling Bros.		11-25-58	143	4 Oh	101	50	Yield 9 gpm; see log well 1885.
1887	Mr. Hutchinson		9-12-57	143	4 Oh	98	42	Yield 12 gpm; see log well 1883.
1888	Schilling Bros.		12-18-57	138	4 Oh	97	41	Yield 12 gpm; see log well 1883.
1889			10-21-58	138	4 Oh	97	41	Yield 9 gpm; see log well 1885.
1890	Dr. Theobald		1958	153	4 Oh	108	45	Little dd reported after 1 hr pumping 9 gpm; Ca. L.
1891	J. Sallak		7-25-52	131	4 Oh	131	6	L. Flowed.
1892	C. Cooper		8-24-48	85	2 S; 4ft. 60g. dia 1	94	44	Little dd reported after 1 hr pumping 9 gpm; Ca. L.
1893	A. Esleg		Summer 1958	138	4 Oh	94	44	Yield 13 gpm; L.
1894	W. L. Kollar		4-17-56	58	2 S; 3ft. 60g. dia 1	48	18	Little dd reported after 1 hr pumping 7 gpm; Ca. L.
2001	H. J. Kullik	Fitzgerald Well and Pump Service Co.	1-2-57	70	2 S; 2.5ft. 60g. dia 1	66	40	Sand overlain by 28 ft clay.
2002	D. Clark	Triangle Drilling Co.	10-24-58	66	2 S; 4ft. 60g. dia 1	26	35	L.
2003	Mitchell Builders		2-32-52	75	2 S; 4ft. 60g. dia 1	141	4	L.
2004	E. Hampton		2-12-53	82	4 Oh	143	40	L.
2005	F. Bukowski		7-20-50	145	4 Oh	143	40	L.
2006	R. R. Gorry	Triangle Drilling Co.	1-25-57	53	4 S; 5ft. dia 3	44	9	Yield 9 gpm; L.
2007	G. Smith		4-22-52	38	2 S; 4ft. 60g. dia 1	---	---	Yield 9 gpm; L.
2008	R. Roso		5-14-53	42	2 S; 4ft. 60g. dia 1	---	---	Yield 9 gpm; L.
2009	G. Roso		5-25-53	67	2 S; 4ft. 60g. dia 1	---	---	Yield 9 gpm; L.
2010	M. Roll		10-55	272	5 Oh	185(?)	87(?)	Yield 9 gpm; L.
2011	Chaple Lawn Pump Co.		8-25-53	80	2 S; 4ft. 60g. dia 1	---	---	Yield 9 gpm; L.
2012	R. Morris		12-56	95	3 S; 5ft. 80g.	---	---	Yield 9 gpm; L.
2013	E. Homer		4-5-58	64	2 S; 4ft. 60g. dia 1	---	---	Yield 9 gpm; L.
2014	A. Hanor		6-13-48	37	2 S; 4ft. 60g. dia 1	---	---	Yield 9 gpm; L.
2015	Mr. Holmes		4-4-56	41	2 S; 5ft. 80g. dia 1	---	---	Yield 9 gpm; L.
2016	O. Fifield		8-2-49	188	8-5	---	---	Yield 9 gpm; L.
2017	W. and T. Burgo		11-12-57	102	12 Gpi. S; 10ft. 8x1, dia 6	79	23	Yield 9 gpm; L.
2018	Capuchin Cloacento Co., Inc.		8-17-55	87	2 S; 3.5ft. 80g. dia 1	---	---	Yield 9 gpm; L.
2019	E. Park		5-12-55	73	2 S; 4ft. 60g. dia 1	---	---	Yield 9 gpm; L.
2020	J. Klocok		8-12-53	63	2 S; 4ft. 60g. dia 1	---	---	Yield 9 gpm; L.
2021	S. Balcerak		11-15-55	61	2 S; 4ft. 60g. dia 1	---	---	Yield 9 gpm; L.
2022	R. Mionert		10-7-54	55	2 S; 4ft. 60g. dia 1	---	---	Yield 9 gpm; L.
2023	L. Chartors		11-7-56	88	2 S; 3.5ft. 60g. dia 1	---	---	Yield 9 gpm; L.
2024	J. E. Cady		4-4-54	88	2 S; 4ft. 60g. dia 1	---	---	Yield 9 gpm; L.
2025	K. M. Churchill		7-6-59	51	2 S; 4ft. 60g. dia 1	---	---	Yield 9 gpm; L.
2026	E. Lager		1-28-53	85	2 S; 4ft. 80g. dia 1	---	---	Yield 9 gpm; L.
2027	C. Skarps		2-54	180	4 Oh	---	---	Yield 9 gpm; L.
2028	D. G. Clark		3-16-53	92	2 S; 4ft. 60g. dia 1	---	---	Yield 9 gpm; L.
2029	W. Rubik		1-5-54	70	2 S; 3.5ft. 60g. dia 1	---	---	Yield 9 gpm; L.
2030	B. Quack		4-24-52	67	2 S; 80g.	---	---	Yield 9 gpm; L.
2031	M. Hushon		8-22-58	83	4 Oh	126	25	Yield 9 gpm; L.
2032	F. B. Grish		8-17-48	60	2 S; 4ft. 80g. dia 1	---	---	Yield 9 gpm; L.
2033			8-55	223	5 Oh	145	75	Yield 9 gpm; L.
2034	T. D. Robertson		8-50	196	4 Oh	154	42	Yield 9 gpm; L.
2035	R. C. Rose		1047	168	5 Oh	145	23	Yield 9 gpm; L.
2036	J. Cebuleki		7-8-59	178	4 Oh	137	41	Yield 9 gpm; L.
2037	Mr. Schrodor		5-6-57	107	4 Oh	157	40	Yield 9 gpm; L.
2038	Mr. Joergmas		11-16-57	137	4 Oh	156	73	Yield 9 gpm; L.
2039	B. Serva		12-15-56	229	4 Oh	---	---	Yield 9 gpm; L.
2040	S. Szwinski, Jr.							Yield 9 gpm; L.
2041	K. Warstler							Yield 9 gpm; L.
2042	R. Cartor							Yield 9 gpm; L.
2043	R. H. Baker							Yield 9 gpm; L.

Table 2.--Records of wells and test holes in Lake County, Indiana--Continued

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Depth to bedrock (feet)	Water-bearing zone			Use	Type of pump and horsepower	Remarks
										Thickness (feet)	Character	Geologic age			
35/9W-30A1	R. D. Smith	Tri-anglo Drilling Co.	4-13-57	700 Dr	250	4 Oh	158	158	92	M	S	C	D	---	DM 78 ft after 1 hr pumping 6 gpm; L. DD 10 ft pumping 9 gpm; Ch. L. Little dd reported after 3 hr pumping 15 gpm.
30A2	C. Potom	---	---	695 Dr	193	4 Oh	152	152	41	L4	S	C	D	---	---
30A3	S. Polera	J. R. Sinnott	9-30-55	695 Dr	200	4 Oh	148	148	52	L4	S	C	D	---	---
30B1	V. Jacobson	Shueby Well and Pump Co.	1955	700 Dr	353	4 Oh	185(?)	168(?)	64	L4	S	C	D	---	---
30B2	R. Grodzitz	Tri-anglo Drilling Pump Co.	10-11-58	705 Dr	320	4 Oh	158	162	162	L5(?)	S	C	D	---	DM 75 ft pumping 7 gpm; Ch. L. Flows; L. Yield 15 gpm; sand over- lain by 31 ft clay. Water has hydrogen sulfide gas; L. Little dd reported after 2 hr pumping 12 gpm; L. Yield 180 gpm; L.
32A1	R. Van Gilder	---	6-11-58	710 Dr	138	4 Oh	123	13	13	L4	S	C	P	---	---
32B1	Girl Scout Camp	---	---	690 J	67	2 S; Jft. 60g	---	---	---	Sd	Pl	C	P	---	---
32D1	J. L. Fox	---	7- 6-57	700 Dr	138	4 Oh	131	7	7	La(?)	S	C	D	---	---
32D2	R. M. Simpkins	---	8-25-57	700 Dr	143	4 Oh	133	10	10	La(?)	S	C	D	---	---
33D1	Town of St. John	Stromol and Hill	9- 6-11	710 Dr	277	8 Oh	174	163	163	La(?)	S	C	D	---	---
33D2	I. Huber	Hub Plumbing Co.	7-31-40	705 J	57	2 S; 4ft. 60g. dia 1	---	---	---	Sd	Pl	C	D	---	---
33E1	M. Harper	---	3-24-54	700 J	99	2	---	---	---	Sd	Pl	C	D	---	---
33E2	A. Roznowski	---	2-17-55	710 J	96	2	---	---	---	Sd	Pl	C	D	---	---
33E3	D. Boggs	---	2- 1-52	715 J	83	2	---	---	---	Sd	Pl	C	D	---	---
33E4	C. Nejsya	---	11- 5-50	710 J	88	2	---	---	---	Sd	Pl	C	D	---	---
35/10W-1R1	Mr. Patterson	Mohling Well Works	11- 5-55	625 Dr	142	5 Oh	139	3	3	La(?)	S	C	D	---	DD 5 ft after 3 hr pumping 37 gpm; temperature 52 F. Yield 12 gpm; sand overlain by 27 ft clay; Ch. Little dd reported after 3 hr pumping 18 gpm. DM 15 ft pumping 150 gpm; Ch. L.
1R2	Dyer Baptist Church	Tri-anglo Drilling Co.	1958	025 J	34	2 S; Jft. 00g	---	---	---	Sd	Pl	C	D	---	---
1R3	M. Hanzanich	J. R. Sinnott	8-18-55	025 Dr	182	4 Oh	139	43	43	La(?)	S	C	D	---	---
15C1	Dyer Cemetery	Kramer Dren.	Fall	640 Dr	325	8 Oh	129	129	100	La	S	C	D	---	---
15C2	Town of Dyer	---	1947	640 Dr	274	8 Oh	---	---	---	La	S	C	D	---	---
25C1	G. Smith	Layell Well and Pump Co.	1915	095 Dr	225	2 Oh	127	98	98	La(?)	S	C	D	---	---
25E1	C. Robinson	Tri-anglo Drilling Co.	10-25-57	705 Dr	189	4 Oh	140	49	49	La(?)	S	C	D	---	DM 43 ft after 1 hr pump- ing 12 gpm; Ch. L. DD 40 ft pumping 10 gpm; see log and notes. Temperature 52 F.
25E2	D. Alchery	---	11-13-58	705 Dr	191	4 Oh	138	126	53	La(?)	S	C	D	---	---
25F1	K. L. Cook	Mohling Well Works	7-55	700 Dr	310	5 Oh	151	159	159	La(?)	S	C	D	---	DM 50 ft pumping 7 gpm; L. Temperature 52 F.
25F2	R. Walters	Tri-anglo Drilling Co.	9-18-58	705 Dr	203	4 Oh	140	63	63	La(?)	S	C	D	---	---
25G1	R. Szanack	Mohling Well Works	6-55	685 Dr	260	5 Oh	125	135	135	La(?)	S	C	D	---	---
25G2	F. Kasper	Shueby Well and Pump Co.	1955	695 Dr	140	4 Oh	132(?)	8(?)	8(?)	La	S	C	D	---	---
25K1	T. Hoerik	Hub Plumbing Co.	8-13-54	700 J	79	2 S; 4ft. 60g. dia 1	---	---	---	Sd	Pl	C(?)	D	---	---
25L1	B. Johnson	Tri-anglo Drilling Co.	1-15-58	710 Dr	258	4 Oh	143	115	115	La(?)	S	C	D	---	DD 77 ft pumping 3 gpm; L. 15 gpm; Ch. L. DM 11 ft pumping 7 gpm; Ch. L. Temperature 52 F.
25L2	E. Czock	Mohling Well Works	1056	720 Dr	169	5 Oh	150	19	19	La(?)	S	C	D	---	---
25L3	E. Schell	---	1-56	730 Dr	233	5 Oh	158	75	75	La(?)	S	C	D	---	DD 8 ft after 3 hr pumping 15 gpm; Ch. L.
25M1	H. Stas	Tri-anglo Drilling Co.	8- 6-50	730 Dr	170	4 Oh	156	14	14	La(?)	S	C	D	---	DM 11 ft pumping 7 gpm; Ch. L. Temperature 52 F.
25N1	C. Drosor	Mohling Well Works	---	735 Dr	250	5 Oh	150	100	100	La(?)	S	C	D	---	---
25P1	C. Ludwig	---	8-55	755 Dr	260	5 Oh	164	96	96	La(?)	S	C	D	---	---
25P2	E. Frotz	Hub Plumbing Co.	10-17-48	750 J	110	2 S; 4ft. 60g. dia 1	---	---	---	Sd	Pl	C	D	---	---
25Q1	F. J. Rowton	---	9-12-53	720 J	104	2	---	---	---	Sd	Pl	C	D	---	---

Well No.	Owner	Company	Depth	Drill Date	Drill Type	Drill Bit	Drill Rate	Drill Time	Drill Cost	Drill Method	Drill Notes	Drill Status	Drill Location	Drill Remarks
35/10W-36A1	J. DeGoey	Wagon Well Drilling	6-24-50	710	J	2	161	161	161	29	161	P1	Sd	L.
36C1	O. P. Clarke	Hub Plumbing Co.	4-7-38	720	Dr	2	190	190	190	29	190	P1	Lg	Yield 15 gpm.
36P1	G. Foster	Hub Plumbing Co.	12-9-48	700	J	70	70	70	70	27	70	P1	Sd	Yield 8 gpm; sand over-
36B2	J. Sparrow	Truflow Drilling Co.	6-4-53	690	J	54	54	54	54	25	54	P1	Sd	lain by 40 ft clay; Ch.
36P3	Mr. Struder	Truflow Drilling Co.	4-4-55	700	J	65	65	65	65	40	65	P1	Sd	
36R1	L. Roviero	Hub Plumbing Co.	10-14-50	700	J	112	112	112	112	23	112	P1	Sd	
36/7W-7E1	Indiana Toll Road Commission	Raymond Concrete Pile Co.	5-28-54	621	0	60	60	60	60	24	60	P1	Sd	
7E2			5-20-54	624	0	60	60	60	60	25	60	P1	Sd	
7G1			6-7-54	609	0	55	55	55	55	27	55	P1	Sd	
7G2			6-9-54	610	0	45	45	45	45	27	45	P1	Sd	See log well 7G1.
7G3			8-1-54	608	0	70	70	70	70	27	70	P1	Sd	
7G4			6-5-54	608	0	70	70	70	70	26	70	P1	Sd	
7G5			5-6-54	610	0	40	40	40	40	21	40	P1	Sd	See log well 7G3.
801			8-1-54	610	0	65	65	65	65	8	65	P1	Sd	See log well 802.
802			5-27-54	608	0	65	65	65	65	0	65	P1	Sd	
803			6-9-54	611	0	65	65	65	65	9	65	P1	Sd	See log well 800.
804			5-28-54	607	0	50	50	50	50	1	50	P1	Sd	
805			6-4-54	601	0	33	33	33	33	1	33	P1	Sd	
806			6-14-54	596	0	80	80	80	80	15	80	P1	Sd	
807			6-11-54	607	0	50	50	50	50	20	50	P1	Sd	
9A1	Indiana State Highway Department		5-14-58	592	0	30	30	30	30	---	---	P1	Sd	See log well 9A5.
9A2			5-14-58	592	0	30	30	30	30	---	---	P1	Sd	
9A3			5-14-58	598	0	50	50	50	50	---	---	P1	Sd	Do.
9A4			5-14-58	598	0	50	50	50	50	---	---	P1	Sd	See log well 9A5.
9A5			5-14-58	600	0	30	30	30	30	---	---	P1	Sd	Do.
9A6			5-14-58	594	0	30	30	30	30	---	---	P1	Sd	Do.
9A7			5-14-58	592	0	30	30	30	30	---	---	P1	Sd	Do.
9A8			5-14-58	600	0	30	30	30	30	---	---	P1	Sd	Do.
9A9			5-14-58	598	0	30	30	30	30	---	---	P1	Sd	Do.
9A10			5-14-58	600	0	30	30	30	30	---	---	P1	Sd	Do.
9A11			5-14-58	594	0	30	30	30	30	---	---	P1	Sd	Do.
9A12			5-14-58	607	0	70	70	70	70	19	70	P1	Sd	Do.
9B1			6-15-54	598	0	65	65	65	65	14	65	P1	Sd	Water level in upper sand 15 ft below lid; water level in lower sand 30 ft below lid; L.
9B2			6-16-54	595	0	80	80	80	80	12	80	P1	Sd	
9B3			6-10-54	604	0	100	100	100	100	1	100	P1	Sd	
9B4			6-10-54	603	0	55	55	55	55	1	55	P1	Sd	See log well 9B3.
9B5			6-8-54	603	0	60	60	60	60	2	60	P1	Sd	Do.
9B6			6-3-54	603	0	75	75	75	75	2	75	P1	Sd	See log well 9B4.
9B7			0-6-54	603	0	60	60	60	60	2	60	P1	Sd	See log well 9B4.
9B8			5-27-54	603	0	70	70	70	70	---	---	P1	Sd	
9B9			0-16-54	593	0	60	60	60	60	---	---	P1	Sd	
9C1	Raymond Concrete Pile Co.		2-25-48	610	Dr	8-6	60	60	60	35	60	P1	Sd	
9C2	Raymond Concrete Pile Co.		2-1-58	610	J	77	77	77	77	---	---	P1	Sd	
9C3	Raymond Concrete Pile Co.		3-4-48	635	Dr	97	97	97	97	---	---	P1	Sd	
16B1			3-23-48	635	Dr	130	130	130	130	---	---	P1	Sd	
16B2			1-18-45	630	Dr	77	77	77	77	---	---	P1	Sd	
16B3			7-29-44	630	Dr	108	108	108	108	---	---	P1	Sd	
16B4			3-30-48	630	Dr	93	93	93	93	18	93	P1	Sd	
16E1			11-25-33	810	Dr	62	62	62	62	47	62	P1	Sd	
16E2			4-17-40	615	Dr	69	69	69	69	---	---	P1	Sd	
16E3			4-17-40	615	Dr	95	95	95	95	---	---	P1	Sd	
16E4			6-12-40	615	Dr	71	71	71	71	22	71	P1	Sd	
16E5			6-12-40	615	Dr	08	08	08	08	58	08	P1	Sd	
16G1			3-12-48	630	Dr	90	90	90	90	13	90	P1	Sd	
16G2			11-15-49	630	Dr	88	88	88	88	18	88	P1	Sd	
16K1	G. Reiter	Porter Service Well Service Co., Inc.	0-55	635	J	49	49	49	49	30	49	P1	Sd	Old well 21 ft deep; L.
16L1	Town of East Gary	Porter Service Well Service Co., Inc.	1-3-50	600	Dr	150	150	150	150	---	---	P1	Sd	
16L2	Town of East Gary	Porter Service Well Service Co., Inc.	8-10-44	600	Dr	100	100	100	100	---	---	P1	Sd	
16M1	Town of East Gary	Porter Service Well Service Co., Inc.	2-8-36	600	Dr	44	44	44	44	28	44	P1	Sd	Do; 42 ft pumping 140 gpm;
16N2	Town of East Gary	Porter Service Well Service Co., Inc.	1-25-38	600	Dr	53	53	53	53	5	53	P1	Sd	Do; 43 ft pumping 125 gpm;

Table 2. --Records of wells and test holes in Lake County, Indiana--Continued

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land surface (feet)	Diameter of well (inches)	Finish	Depth to bedrock (feet)	Water-bearing zone				Water level (feet)	Use	Type of pump and horsepower	Remarks
										Depth to top (feet)	Thickness (feet)	Character	Geologic age				
30/7W-16N1	Town of East Gary	Layne-Northorn Co., Inc.	7-27-14	600	Dr	78										L.	
16P1	do	do	6-17-34	630	Dr	65	8 3/8	Op; S; 1 1/2 ft., 80 gal. dia 18			35	13	54	28	P	28	Dd 20 ft pumping 257 gpm; Ca, L.
16P2	do	do	10-26-53	630	Dr	80	8 3/8	Op; S; 20 ft., 105 gal. dia 18			34	41	50	21	P	21	See log well 16Q1.
16Q1	do	do	4-7-50	635	Dr	68	8 3/8	Op; S; 20 ft., 105 gal. dia 18			21	47	50	21	P	21	Dd 19 ft pumping 340 gpm; L.
16Q2	do	do	3-1-50	635	Dr	64	8 3/8	do			21	43	54	P, O	21	P, O	Dd 18.5 ft pumping 310 gpm; see log well 16Q1; observation well Lake 1; water level measured 30 ft below bed, 1-1-54.
16Q3	do	do	12-1-19	635	Dr	74	8-6	do			24	41	54	T	24	T	See log 16Q1.
16Q4	do	do	12-14-45	635	Dr	77	8-6	do			20	43	54	T	20	T	Do.
16Q5	do	do	2-17-48	635	Dr	95	8-6-1	do			23	45	54	T	23	T	L.
16R1	do	do	3-19-54	635	Dr	70	6	do			24	46	54	T	24	T	L.
16R2	do	do	12-15-54	635	Dr	65	8 3/8	Op; S; 20 ft., 80 gal. dia 18			22	48	54	P	22	P	Dd 22 ft pumping 375 gpm; see log well 16R1.
17J1	do	do	1-29-36	600	Dr	50		do			40	10	54	T	40	T	Dd 32 ft pumping 45 gpm; L.
17J2	do	do	1-31-36	600	Dr	48		do			32	16	54, G	T	32	T	Yield 45 gpm; L.
17J3	do	do	2-6-36	600	Dr	47		do			25	24	54	T	25	T	L.
17J4	do	do	2-7-36	600	Dr	52		do			16	16	54	T	16	T	L.
17J5	do	do	2-3-36	600	Dr	50		do			37	3	54	T	37	T	L.
17K1	do	do	1-20-36	600	Dr	50		do			31	19	54	T	31	T	L.
17K2	do	do	1-14-36	600	Dr	50		do			33	17	54	T	33	T	L.
17K3	do	do	1-16-36	600	Dr	58		do			40	10	54	T	40	T	L.
17M1	do	do	11-20-51	610	Dr	138		do			43	8	54, G	T	43	T	L.
17R1	do	do	1-25-36	600	Dr	52		do			167	51	54	T	167	T	Flows; water has hydrogen sulfide gas; L.
18E1	H. C. Stucker	Free Well Drilling	1-6-59	595	Dr	218	4	Oh	167								Sue log well 18E2.
18E2	Indiana State Highway Department	do	1-29-58	594	D	45		do									Dd 18 ft after 48 hr pumping 7 gpm; Ca, L.
18E3	do	do	1-29-58	594	B	30		do									L.
18G1	Mr. Boutley	Free Well Drilling	8-10-59	585	Dr	151	4	Oh	145		145	6	54	J	0	J	Do.
18L1	East Gary Concrete Works	Porter County Well Service		600	J	72	2	do									L.
18Q1	Town of East Gary	Layne-Northorn Co., Inc.	2-16-40	610	Dr	100		do			25	28	54	T	10	T	L.
19B1	do	do	8-11-44	630	Dr	101		do									L.
19E1	Town of New Chicago	do	10-22-51	620	Dr	295	8-4	Oh	198								L.
19F1	do	do	9-6-51	630	Dr	55	6	do									L.
19F2	do	do	9-13-51	630	Dr	87	6	do			53	20	54	T	47	T	L.
19M1	do	do	9-21-51	640	Dr	100	6	do			49	44	54	T	44	T	L.
19M2	do	do	10-31-51	630	Dr	61	6	do									L.
20N1	do	do	1-6-52	600	Dr	95	8-6	do			0	27	54	T	2	T	Flowed; L.
20P1	do	do	1-6-52	600	Dr	95	8-6	do			8	21	54	T	8	T	Flowed; see log well 20N1.
20R1	C. Inakson	Porter County Well Service	7-5-51	620	J	41	2	S; 4 ft., 60 g			12	29	54	P	12	P	Yield 18 gpm; Ca, L.
21A1	N. Canney and Associates	do	1-2-56	630	J	54	2	do			35	19	54	D	35	D	Yield 8 gpm; L.
21B1	Town of East Gary	Layne-Northorn Co., Inc.	10-22-53	635	Dr	82	6	do			34	48	54	T	34	T	L.
21B2	Town of New Chicago	do	1-21-52	640	Dr	68	6	S; 4 ft dia 4			27	41	54	T	27	T	Yield 10 gpm; L.
21B3	Town of East Gary	Chicago	3-17-54	640	Dr	70	0	do									See log well 21R2.
21B4	do	do	3-31-54	640	Dr	60	0	do									Do.
21C1	Town of New Chicago	do	10-6-54	630	Dr	64	2 1/2	Op; S; 15 ft., 80 gal. dia 10			30	34	54	P	30	P	Dd 21 ft after 8 hr pumping 200 gpm; L.

Well ID	Owner	Location	Company	Date	Depth	Flow	Pressure	Notes	Yield	Flow	Pressure	Notes	Yield	Flow	Pressure	Notes
21C2	do	do	do	4-9-53	630	Dr	68									
21C3	do	do	do	8-9-54	630	Dr	55									
21C4	do	do	do	9-13-54	630	Dr	04									
21C5	do	do	do	9-16-54	630	Dr	84									
21C6	do	do	do	10-17-54	630	Dr	64									
21C7	do	do	do	0-21-54	630	Dr	61									
21C8	do	do	do	10-7-54	630	Dr	65									
21C9	do	do	do	11-2-54	630	Dr	59									
21C10	do	do	do	10-26-54	630	Dr	66									
21C11	do	do	do	11-16-54	625	Dr	61									
21C12	do	do	do	10-28-54	625	Dr	58									
21C13	do	do	do	2-6-53	630	Dr	67									
21C14	do	do	do	11-1-54	630	Dr	60									
21D1	Town of East Gary	do	do	do	600	Dr	48									
21G1	Town of New Chicago	do	do	1-30-52	625	Dr	57									
21H1	do	do	do	2-4-52	620	Dr	95									
29P1	W. Kinest	do	J. Eich and Son	8-6-59	624	J	28									
29A1	F. JaBohn	do	Porter County Well Service	1949	610	J	60									
29B1	O. D. Coll	do	Nelson Well and Pump Service	11-17-55	615	J	32									
29B2	A. Lonney	do	Porter County Well Service	5-19-54	610	J	39									
29N1	Owens Brickyard	do	do	do	620	Dr	180									
29F1	J. Henderson	do	do	do	620	Dr	136									
30/8a-2F1	Indiana 301 Road	do	Sprague and Ironwood	6-25-54	597	D	136									
2F2	do	do	do	6-25-54	596	D	117									
2F3	do	do	do	6-25-54	606	D	110									
2F4	do	do	do	6-25-54	606	D	181									
2F5	do	do	do	6-25-54	606	D	61									
2F6	do	do	do	6-25-54	604	D	55									
2F7	do	do	do	6-25-54	604	D	57									
2F8	do	do	do	6-25-54	606	D	132									
2F9	do	do	do	6-25-54	599	D	76									
3E1	do	do	do	6-25-54	606	D	82									
3E2	do	do	do	6-25-54	604	D	141									
3E3	do	do	do	6-25-54	601	D	57									
3E4	do	do	do	6-25-54	604	D	55									
3E5	do	do	do	6-25-54	604	D	136									
3E6	do	do	do	6-25-54	603	D	132									
3E7	do	do	do	6-25-54	602	D	52									
3E8	do	do	do	6-25-54	602	D	142									
3E9	do	do	do	6-25-54	601	D	52									
3F1	do	do	do	1-7-55	606	D	55									
3F2	do	do	do	1-7-55	596	D	142									
3F3	do	do	do	1-7-55	598	D	60									
3F4	do	do	do	1-7-55	601	D	132									
3F5	do	do	do	1-7-55	599	D	70									
3F6	do	do	do	1-7-55	600	D	58									
3F7	do	do	do	1-7-55	600	D	136									
3F8	do	do	do	1-7-55	600	D	50									
3F9	do	do	do	1-7-55	600	D	140									
3F10	do	do	do	1-7-55	601	D	56									
3F11	do	do	do	1-7-55	602	D	62									
3F12	do	do	do	1-7-55	601	D	130									
3F13	do	do	do	1-7-55	601	D	56									
3F14	do	do	do	1-7-55	602	D	136									
3F15	do	do	do	1-7-55	600	D	130									
3F16	do	do	do	1-7-55	601	D	61									
3F17	do	do	do	1-7-55	600	D	136									
3F18	do	do	do	1-7-55	601	D	62									
3F19	do	do	do	1-7-55	602	D	131									
3G1	do	do	do	do	600	D	131									
3G2	do	do	do	do	602	D	132									
3G3	do	do	do	do	597	D	130									
3G4	do	do	do	do	598	D	56									
3G5	do	do	do	do	602	D	131									
3G6	do	do	do	do	595	D	56									
3G7	do	do	do	do	596	D	129									

Table 2.--Records of wells and test holes in Lake County, Indiana--Continued

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Depth to bedrock (feet)	Water-bearing zone				Water level (feet)	Time	Type of pump and horsepower	Remarks
										Depth to top (feet)	Thickness (feet)	Character	Geologic age				
36/8W-1895	Indiana State Highway Department		1- 6-55	595	D	45										See log well 16R4.	
16R1			1-10-55	599	B	47										L.	
16R2			1-10-55	599	B	47										See log well 16R1.	
16R3			1-10-55	599	B	47										Do.	
17J1			4-25-55	594	B	44										See log well 17J1.	
17J2			4-25-55	592	B	45										See log well 17J1.	
17J3			4-25-55	593	B	45										See log well 17J1.	
21R1			1- 6-55	586	B	29										L.	
21R2			1- 6-55	594	B	29										See log well 21R1.	
21R3			1- 0-55	586	B	29										Do.	
21R4			1- 6-55	595	B	29										Do.	
21R5			1- 6-55	586	B	29										Do.	
21R6			1- 6-55	590	B	29										Do.	
21C1			1- 0-55	586	B	23										See log well 21C5.	
21C2			1- 0-55	591	B	23										Do.	
21C3			1- 0-55	586	B	23										Do.	
21C4			1- 0-55	592	B	23										Do.	
21C5			1- 0-55	586	B	23										Do.	
23R1	Henny Evans School	Layno-Northern Co., Inc.	3-23-54	640	Dr	35	6		19	10	Sd, G	PI	U			L.	
23R2	Hobart Township School		8- 7-54	640	Dr	36	26	Gp; 5. 5ft., dia 8	19	17	Sd	PI	U			See log well 23R1.	
24R1	Town of New Chicago		11- 5-51	600	Dr	20	6		9	11	Sd	PI	C			L.	
25W1	R. Price	Sheehy Well and Pump Co.	1955	640	Dr	203	4	Oh	170(?)	35(?)	Is	S(?)	C	90(?)		No water reported; L.	
25W2		Porter County Well Service	5-24-55	640	J	146	2		145(?)							Do.	
25W3			5-13-55	640	J	116	2			23	Sd	PI	U			Yield 15 gpm; yellow sand from 0-28 ft.	
26D1	G. J. Fordyce		11-18-55	640	J	28	2	S; 4ft., 60g									
27A1	A. E. Cooper	Nelson Well and Pump Service	8-16-53	630	J	28	2	S; 3.5ft., 80g. dia 1			Sd	PI				Yield 10 gpm; Ca., L.	
28C1	E. Klueck		7-11-53	620	J	46	2				Sd	PI					
28D1	L. Lobdell		7- 8-53	620	J	25	2				Sd	PI					
28E1	H. St. Myers	Slicker Well and Pump Service	8-28-59	630	J	27	2	S; 3ft., 60g. dia 1	20	7	Sd	PI	C			Yield 10 gpm; Ca., L.	
31G1	Walsh and Kelly Asphalt Paving	Masterbarry Well and Pump Service		835	J	57	2	S			Sd	PI					
32J1	B. Olin	J. Eich and Son	6-12-59	660	J	75	2	S; 5ft., 60g. dia 1	53	23	Sd, G	PI	C			Yield 12 gpm; L.	
32K1	J. Jansentia		7- 2-59	670	J	67	2	S; 4ft., 60g. dia 1	58	9	Sd, G	PI	C			Yield 13 gpm; Ca., L.	
32K2	G. Kalmar		7- 1-59	605	J	72	2	S; 5ft., 60g. dia 1	61	11	G, Sd	PI	C			Yield 12 gpm; Ca., L.	
33A1	C. Buckle	Nelson Well and Pump Service	6-54	645	J	68	3	S; 5ft., 80g. dia 1 1/2			Sd	PI					
33E1	R. Terwort	J. Eich and Son	7-20-59	650	J	62	2	S; 3.5ft., 60g. dia 1	56	7	Sd, G	PI	C			Yield 10 gpm; Ca., L.	
35A1	T. Boltz	Hub Plumbing Co.	9-24-40	645	J	96	2	S; 4ft., 80g. dia 1			Sd	PI	C			Yield 40 gpm; Ca., L.	
35L1	St. Sava picnic Grounds	Porter County Well Service	9- 7-50	650	J	87	4	S; 10ft., 10h1	39	28	Sd	PI	C				
36/8W-1A1	Indiana Toll Road Commission	Sprague and Honwood	4-27-55	588	B	62			4	32	Sd	PI	U			L.	
1A2			4-21-55	500	D	20			6	14	Sd	PI	U			See log well 1A1.	
1B1			5-27-55	585	B	25			1	21	Sd	PI	U			L.	
1B2			5-27-55	588	B	25			5	14	Sd	PI	U			See log well 1B1.	
1B3			4-25-55	586	B	21			5	17	Sd	PI	U			Do.	
1B4			4-25-55	591	B	21			6	19	Sd	PI	U			Do.	
1D1			8- 7-59	590	B	46			6	39	Sd, G	PI	U			L.	
2A1			6-15-54	589	B	47			6	30	Sd, G	PI	U			See log well 2A4.	
2A2			8- 6-54	592	B	48			8	30	Sd	PI	U			Do.	

Table 2.--Records of wells and test holes in Lake County, Indiana--Continued

Well No.	Owner	Driller	Data completed	Altitude (feet)	Type of well	Depth of well below land surface (feet)	Diameter of well (inches)	Finish	Depth to bedrock (feet)	Water-bearing zone					Water level (feet)	Use	Type of pump and horsepower	Remarks	
										Thickness (feet)	Character	Geologic age	Conditions of occurrence	Geologic age					
36/9W-353D	Mapes Consolidated Manufacturing Co.	Layne-Northern Co., Inc.	5-1-10	630	Dr	71	42	GP; S; 20ft, dia 18	---	38	33	Su	Pl	C	14	I	T	Dd 24 ft after 0.5 hr pumping 600 gpm; 7.5 hr pumping 275 gpm; L.	
35N4	---	---	3-7-16	630	Dr	80	38	GP; S; 20ft, 105ss, dia 18	---	50	32	Sd	Pl	C	16	I	T15	Dd 35 ft pumping 600 gpm.	
35N5	---	---	1-15-46	630	Dr	80	---	S; 20ft, 55ss, dia 10	---	34	46	Sd	Pl	C	25	I	---	Dd 22 ft pumping 250 gpm.	
35N6	---	---	5-2-30	630	Dr	115	---	---	---	---	---	---	Pl	C	---	---	---	Dd 24 ft pumping 250 gpm.	
35N7	---	---	5-1-43	630	Dr	78	42	GP; S; 20ft, dia 18	---	---	---	---	Pl	C	14	I	---	See log well 35N8.	
35N8	---	---	2-16-34	630	Dr	78	30	S; 20ft 80ss, dia 12	---	52	32	Sd	Pl	C	21	T	---	L.	
35N9	---	---	2-9-59	630	Dr	84	---	---	---	52	32	Sd	Pl	C	19	T	---	L.	
35N10	---	---	12-23-58	630	Dr	84	---	---	---	100(?)	232(?)	La(?)	S	C	---	De	---	L.	
35N11	---	---	1919	635	Dr	332	8	Oh	---	110	130	La(?)	S	C	56	De	---	L.	
36/10W-12D	Town of Griffith Goldblatt Bros.	Mr. Houck J. Koster and Co.	6-30-25	603	Dr	260	4 1/2	Oh	---	109	74	La(?)	S	C	34	D	J	Dd 8 ft after 2 hr pumping 12 gpm; Ca, L.	
24D	R. C. Choner Inc.	Triangle Drilling Co.	2-8-57	617	Dr	181	4	Oh	---	---	---	---	---	---	---	---	---	L.	
24E	Town of Munster	Layne-Northern Co., Inc.	11-10-31	625	Dr	80	---	---	---	---	---	---	---	---	---	---	---	---	L.
24F	---	---	1926	620	Dr	400	8	Oh	---	125	275	La	S	C	---	---	---	---	L.
25Q1	U. S. Government	Kramer Bros. Milling Well Works	5-24-56	615	Dr	485	18-12	Oh	---	54	401	La	S	C	14	P	---	Yield 8 gpm; L. Dd 65 ft after 24 hr pumping 80 gpm; water bearing zones in each encounter from 150-160 ft, 180-200 ft, 225 ft, from 377-393 ft, and 433-440 ft; 24 hr pumping 20 gpm; L.	
36J1	---	---	8-10-50	615	Dr	505	18-12	Oh	---	155	410	La	S	C	25	P	---	L.	
36K1	---	---	1958	615	D	50	---	---	---	---	---	---	---	---	---	---	---	---	L.
36K2	---	---	1956	615	D	50	---	---	---	---	---	---	---	---	---	---	---	---	L.
37/9W-21E1	Gary-Rohart Water Co.	---	1906	580	Dr	113	---	---	---	113	8	Sd	Pl	---	---	---	---	---	L.
21Q1	---	---	1900	580	Dr	112	---	---	---	112	40	13	Sd, G	Pl	---	---	---	---	L.
28K1	---	---	1906	580	Dr	110	---	---	---	110	40	12	Sd, G	Pl	---	---	---	---	L.
28K1	---	---	1906	580	Dr	109	---	---	---	109	37	19	Sd, G	Pl	---	---	---	---	L.
28K2	---	---	1900	580	Dr	110	---	---	---	110	20	31	Sd, G	Pl	---	---	---	---	L.
28N1	U. S. Steel Corp.	Raymond Concrete Pile Co.	3-16-56	590	Dr	70	---	---	---	24	43	Sd	Pl	---	---	---	---	---	L.
28Q1	Gary-Rohart Water Co.	---	1906	580	Dr	110	---	---	---	110	11	33	Sd	Pl	---	---	---	---	L.
29K1	U. S. Steel Corp.	Raymond Concrete Pile Co.	J-56	590	Dr	70	---	---	---	---	---	---	---	---	---	---	---	---	L.
31H1	American Bridge Division, U. S. Steel Corp.	---	---	595	Du	30	600	---	---	---	---	---	---	---	---	---	---	---	L.
31H1	Indiana Toll Road Commission	Suprage and Rowood	6-5-54	593	D	57	---	---	---	---	24	Sd	Pl	---	---	---	---	---	L.
31H2	---	---	6-5-54	594	D	114	---	---	---	17	27	Sd	Pl	---	---	---	---	---	L.
31H3	---	---	4-5-55	593	D	116	---	---	---	---	---	---	---	---	---	---	---	---	L.
31H4	---	---	4-22-55	587	B	29	---	---	---	8	23	Sd	Pl	---	---	---	---	---	L.
32N1	---	---	6-5-54	584	D	47	---	---	---	---	---	---	---	---	---	---	---	---	L.
32N2	---	---	6-5-54	585	B	112	---	---	---	---	---	---	---	---	---	---	---	---	L.
32N3	---	---	6-5-54	594	D	59	---	---	---	26	23	Sd, G	Pl	C	9	T	---	See log well 32N5.	
32N4	---	---	6-7-54	593	D	57	---	---	---	17	30	Sd	Pl	C	7	T	---	L.	
32N5	---	---	6-5-54	588	D	117	---	---	---	---	---	---	---	---	---	---	---	---	L.
32N1	---	---	6-5-54	588	D	50	---	---	---	---	---	---	---	---	---	---	---	---	L.
32P1	---	---	6-18-54	587	D	50	---	---	---	9	30	Sd	Pl	C	5	T	---	See log well 32P1.	
32Q1	---	---	8-5-54	584	D	108	---	---	---	17	20	Sd	Pl	C	8	T	---	L.	

Table 2.--Records of wells and test holes in Lake County, Indiana--Continued

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land surface (feet)	Diameter of well (inches)	Finish	Depth to bedrock (feet)	Water-bearing zone				Water level (feet)	Use	Type of pump and horsepower	Remarks
										Depth to top (feet)	Thickness (feet)	Character	Geologic age				
37/9W-2483	Universal Atlas Cement Co.		1955	590	D	95										See log well 2481.	
24N9	do		1955	500	B	62					35	Sd	U	5	T	Do.	
24P1	Northern Indiana Public Service Co.			590	B	136			124		18	Sd	U	0	T	L.	
25C1	do	Layne-Northern Co., Inc.	8-30-56	590	Dr	38	8	S; Dir., 10-1			17	Sd	U	5	P	Do 30 ft after 6 hr pumping 23 gpm; water has hydrogen sulfide gas; Ca, L.	
26A1	Universal Atlas Cement Co.		1955	595	B	143			140				U		T	L.	
26H1	do		1955	590	B	100							U		T	See log well 26A1.	
28D1	Harbison Walker Co.	S. B. Geiger Co.		590	Dr	1,820	12-8	Oh	154		200	S4	C	1	I	Do 52 ft w/for 1.5 hr pumping 300 kpa; L.	
28C1	Linde Air Products Co.	Layne-Northern Co., Inc.	8-24-40	590	Dr	32							U		T	L.	
28D1	do		8-24-40	585	Dr	32							U		T	See log well 28C1.	
28R1	do		1916	585	Dr	1,550		Oh	175				U		T	L.	
30D1	Indiana Toll Road Commission	Chase Foundation Co.	7-30-54	584	B	61					20	Sd	U	3	T	L.	
30E2	do		7-31-54	583	D	60					20	Sd	U	3	T	See log well 30D1.	
30B3	do		7-30-54	587	B	47							U		T	Do.	
30F1	do		7-12-54	585	B	43							U		T	See log well 30F3.	
30F2	do		7-12-54	585	B	43							U		T	Do.	
30F3	do		7-13-54	584	B	43							U		T	Do.	
30F4	do		7-14-54	583	B	44							U		T	L.	
30F5	do		7-15-54	585	B	44							U		T	See log well 30F3.	
30F6	do		7-54	583	D	33							U		T	See log well 30F5.	
30F7	do	Spingue and Renwood	7-10-54	583	D	33							U		T	See log well 30F3.	
30K1	do		7-6-54	587	D	42							U		T	See log well 30K3.	
30K2	do		7-14-51	587	D	70							U		T	Do.	
30K3	do		6-8-54	586	B	70							U		T	L.	
30K4	do		7-6-54	586	D	72							U		T	See log well 30K1.	
30K5	do		7-8-54	587	D	67							U		T	Water level 2 ft, 1-10-55; see log well 30K3.	
30K6	do		7-6-54	585	D	66							U		T	See log well 30K1.	
30K7	do		7-54	586	D	35							U		T	Do.	
30K8	do		7-10-54	587	B	70							U		T	Do.	
30K9	do		7-6-54	586	D	77							U		T	See log well 30J10.	
30L1	do		7-12-54	586	D	73							U		T	Do.	
30L2	do		7-13-54	585	D	70							U		T	See log well 30J10.	
30L3	do		7-54	586	D	38							U		T	Do.	
30L4	do		7-9-54	587	B	36							U		T	L.	
30L5	do		7-9-54	585	B	74							U		T	L.	
30L6	do		7-9-54	580	B	30							U		T	See log well 30L4.	
30L7	do		7-8-54	586	B	37							U		T	See log well 30L10.	
30L8	do		7-0-54	587	B	37							U		T	Do	
30L9	do		7-8-54	585	B	37							U		T	L.	
30L10	do		7-7-54	587	D	113			97				U		T	Limestone has solution channels; L.	
30Q1	do		7-12-54	584	B	35							U		T	L.	
30R1	do		7-2-54	583	B	37							U		T	See log well 30R6.	
30R2	do		7-2-54	583	B	37							U		T	Do.	
30R3	do		1-10-55	585	D	37							U		T	Do.	
30R4	do		7-2-54	583	D	37							U		T	Do.	
30R5	do		7-2-54	587	B	32							U		T	Do.	
30R6	do		7-2-54	583	B	72							U		T	L.	

Case No.	Company	Product/Service	Date	Quantity	Price	Unit	Notes
37/9W-3087		do	6-29-54	584 B			See log well 3086, L.
3088		do	7-2-54	584 B			See log well 31A6, L.
31A1		do	7-1-54	585 B			See log well 31A1, L.
31A2		do	7-1-54	584 B			Do.
31A3		do	6-29-54	586 B			Do.
31A4		do	1-10-55	587 B			Do.
31A5		do	6-29-54	588 B			See log well 31A6, L.
31A6		do	6-28-54	586 B			See log well 31A1, L.
31A7		do	7-6-54	586 B			Water level 1 ft below lsd, 1-10-55; L.
31A8		do	6-29-54	584 B			See log well 32E1, L.
31H1		do	7-21-54	585 B			Do.
32E1		do	7-19-54	587 B			Water level 171 ft below lsd, 9-26-46; casing set from 0-306 ft, 583-773 ft, 1,330-1,530 ft; rd 305 ft after 20 hr pumping about 380 gpm; Ca, L.
32E2		do	7-14-54	585 B			See log well 32E1, L.
32E3		do	7-16-54	583 B			Do.
32E4		do	7-54	583 B			Flowed; L.
32E5		do	7-54	583 B			Flowed; see log well 32E4, L.
32E6		do	7-54	582 B			Do.
32E7		do	7-54	582 B			Do.
32E8		do	7-54	582 B			Do.
32E9		do	7-54	582 B			Do.
32E0		do	7-54	582 B			Do.
32E1	S. E. GLENER	do	6-40	595	Dr	1.825	Oh
32L1	Indiana Toll Road Commission		6-25-54	587 B			See log well 32L2, L.
32L2		do	6-25-54	587 B			Flowed; L.
32M1		do	7-54	582 B			Flowed; see log well 32M1, L.
32M2		do	7-54	582 B			Do.
32M3		do	7-54	582 B			Do.
32M4		do	7-54	582 B			Do.
32M5		do	7-14-54	583 B			See log well 32M5, L.
32M6		do	7-14-54	583 B			Do.
32M7		do	7-12-54	584 B			Do.
32M8		do	7-12-54	586 B			See log well 32P2, L.
32P1		do	7-2-54	586 B			See log well 32Q2, L.
32P2		do	6-25-54	586 B			Do.
32Q1		do	6-30-54	588 B			See log well 32Q1, L.
32Q2		do	6-24-54	588 B			Do.
33J1	Grinnell Chemical Co.		1915	587 B	Dr	1.840	12-81 Oh
33N1	Indiana Toll Road Commission		6-25-54	586 B			See log well 33P4, L.
33P1		do	0-54	589 B			Do.
33P2		do	6-25-54	586 B			Do.
33P3		do	6-54	590 B			Do.
33P4		do	6-54	587 B			Do.
33Q1		do	0-54	588 B			See log well 33Q1, L.
33Q2		do	6-25-54	588 B			Do.
34R1		do	6-19-54	589 B			Flowed; L.
35N1		do	6-23-54	590 B			Do.
35P1		do	6-16-54	588 B			See log well 35P2, L.
35P2		do	3-29-54	592 B			Yield 8 kpm; L.
36E1	Gary Airport		9-27-51	585 B			See log well 101, L.
102	Pennsylvania Railroad Co.		9-27-51	585 B			See log well 102, L.
103		do	7-26-54	587 B			See log well 103, L.
104		do	7-26-54	588 B			See log well 104, L.
105		do	6-24-54	587 B			See log well 105, L.
106		do	6-24-54	587 B			See log well 106, L.
107		do	6-21-54	586 B			See log well 107, L.
108		do	6-22-54	587 B			See log well 108, L.
109		do	6-24-54	585 B			See log well 109, L.
110		do	6-24-54	585 B			See log well 110, L.
111		do	6-16-54	588 B			See log well 111, L.
112		do	6-16-54	501 B			See log well 112, L.
113		do	6-15-54	589 B			See log well 113, L.
114		do	7-13-54	587 B			See log well 114, L.
115		do	7-19-54	584 B			See log well 115, L.

Table 2.--Records of wells and test holes in Lake County, Indiana--Continued

Well No.	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Depth to bedrock (feet)	Water-bearing zone					Water level (feet)	Use	Type of pump and horsepower	Remarks
										Depth to top (feet)	Thickness (feet)	Character	Geologic age	Conditions of occurrence				
37/10W-12C3	Indiana Toll Road Commission	Ceco Foundation Co.	7-15-54	587	D	79			79(?)	3	17	Su	Pl	U	2	T		See log well 12C2.
12C4			7-19-54	584	D	75			79(?)	1	22	Sd	Pl	U	1	T		Do.
12C5			7-15-54	584	B	78				3	21	Sd	Pl	U	1	T		Do.
12C6			7-11-54	586	B	80				3	22	Sd	Pl	U	1	T		Do.
12C7			6-11-54	586	B	80				3	22	Sd	Pl	U	1	T		Do.
12C8			6-15-54	583	D	26				6	16	Sd	Pl	C(?)	1	T		L.
12F1			8-29-54	582	B	26				3	22	Sd	Pl	U	1	T		L.
12G1			6-28-54	582	B	26				2	20	Sd	Pl	U	1	T		L.
12J1			6-28-54	582	B	20				2	22	Sd	Pl	U	1	T		See log well 12L3.
12K1			6-15-54	583	B	62				5	13	Sd	Pl	U	1	T		L.
12L1			8-18-54	581	B	59				5	11	Sd	Pl	U	1	T		L.
12L2			6-22-54	583	B	65				5	19	Sd	Pl	U	1	T		L.
12L3			6-14-54	586	B	28				4	20	Sd	Pl	U	5	T		See log well 12N1.
12L4			6-25-51	582	D	26				2	17	Sd	Pl	U	1	T		See log well 12P2.
12N1			6-28-54	582	D	26				2	20	Sd	Pl	U	1	T		L.
12N2			6-23-54	583	D	24				2	16	Sd	Pl	U	1	T		L.
12P1			6-23-54	583	D	27				3	16	Sd	Pl	U	1	T		L.
12P2										3	16	Sd	Pl	U	1	T		L.
13C1			6-24-54	582	D	26				4	16	Sd	Pl	U	1	T		See log well 13G5.
13E1			7-2-54	588	B	29				3	19	Sd	Pl	U	1	T		Do.
13G2			7-12-54	588	B	71				2	22	Sd	Pl	U	2	T		Do.
13G3			7-11-54	587	B	75				2	22	Sd	Pl	U	2	T		Do.
13G4			7-12-54	586	B	72				2	23	Sd	Pl	U	2	T		Do.
13G5			7-11-54	586	B	76				3	21	Sd	Pl	U	2	T		See log well 13G5.
13G6			7-12-54	587	B	69				2	23	Sd	Pl	U	2	T		Do.
13G7			7-15-54	586	B	70				3	22	Su	Pl	U	2	T		Do.
13G8			7-9-54	588	B	71			76	4	21	Sd	Pl	U	3	T		Limestone at 76 ft. See log well 13K3.
13G9				585	D	79				1	22	Sd	Pl	U	1	T		Do.
13H1			7-9-54	583	B	61				8	16	Sd	Pl	U	1	T		Do.
13K2			7-7-54	580	B	64				1	22	Sd	Pl	U	1	T		See log well 13K3.
13K3			7-7-54	583	B	60				1	23	Sd	Pl	U	1	T		See log well 13Q3.
13K4			7-8-54	584	D	81				1	23	Sd	Pl	U	1	T		Do.
13Q1			7-8-54	584	B	64				3	21	Sd	Pl	U	2	T		Do.
13Q2			6-30-54	585	B	89				2	21	Sd	Pl	U	2	T		See log well 13Q3.
13Q3			7-7-54	585	B	60				3	21	Sd	Pl	U	2	T		Do.
13Q4			6-30-54	584	B	62				4	20	Sd	Pl	U	2	T		L.
13Q5			7-2-54	585	B	58				2	21	Sd	Pl	U	2	T		See log well 24B1.
13Q6			7-2-54	585	B	62				2	20	Sd	Pl	U	2	T		L.
2401			7-6-54	585	B	60				3	21	Sd	Pl	U	2	T		L.
2402			7-6-54	585	B	28				1	17	Sd	Pl	U	2	T		L.
2411			7-8-54	584	D	60				11	13	Sd	Pl	U	2	T		L.
24J1			7-27-54	580	B	54				3	20	Sd	Pl	U	3	T		See log well 24J1.
24J2			7-29-54	585	B	54				7	13	Sd	Pl	U	7	T		Do.
24J3			7-31-54	582	B	50				7	16	Sd	Pl	U	7	T		Do.
24J4			7-28-54	585	B	52				7	16	Sd	Pl	U	7	T		Do.
24J5			7-24	583	B	41				130	170	Sd	Pl	C	30	N		Yield J kpm; L.
36J1	Agricultural Station Post No. 108 Indiana Toll Road Commission	Kennor Bros.	Summary 1946 7-22-54	590	Dr	300	4	Oh	130						4	T		L.
36L1			7-22-54	585	D	26				4	20	Sd	Pl	U	4	T		See log well 36M3.
36N1			3-16-55	586	B	52				20	15	Sd	Pl	U	10	T		Do.
36N2			3-16-55	584	B	52				11	11	Sd	Pl	U	11	T		L.
36N3			7-21-54	583	B	80				4	20	Sd	Pl	U	4	T		See log well 36P2.
36N4			7-22-54	585	B	26				4	20	Sd	Pl	U	4	T		L.
36N5			7-26-54	584	D	80				4	20	Sd	Pl	U	4	T		L.
36P1			7-21-54	585	D	90				4	20	Sd	Pl	U	4	T		See log well 36P2.
36P2			7-21-54	585	D	26				4	20	Sd	Pl	U	4	T		See log well 36P2.
36P3			7-23-54	588	B	26				4	20	Sd	Pl	U	4	T		L.

Table 3.--Selected logs of wells and test holes in Lake County, Indiana

Well 32/7W-6N1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, red-----	18	18	
Clay, gray-----	5	23	
Sand, gray-----	22	55	
Clay, blue-----	6	61	
Shale-----	4	65	Hard clay?.
Sand and clay; with shale-----	3	68	
Silurian system:			
Middle Silurian series:			
Limestone-----	11	79	Dolomite or dolomitic limestone.

Well 32/8W-1A1

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

Quaternary system:			
Recent and Pleistocene series:			
Drift-----	53	53	
Silurian system:			
Middle Silurian series:			
Lime-----	577	630	Dolomite or dolomitic limestone.
Ordovician system:			
Upper Ordovician series?:			
Shale, green-----	15	645	
Shale, gray-----	5	650	
Lime, white-----	70	720	
Shale, gray-----	32	752	
Slate, blue, and shale; with traces of oil-----	108	860	
Middle Ordovician series:			
Limestone, hard-----	55	915	

Well 32/8W-18J1

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

Quaternary system:			
Recent and Pleistocene series:			
Soil, sandy, black-----	4	4	
Sand and gravel; with fossils---	26	30	
Clay, blue-----	26	56	
Gravel with some rock and limestone fragments-----	17	73	
Silurian system:			
Middle Silurian series:			
Limestone-----	488	561	Dolomite or dolomitic limestone.
Shale, gray-----	119	680	

Table 3.--Selected logs of wells and test holes in Lake County--Continued

Well 32/8W-18J1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Ordovician system:			
Upper Ordovician series?:			
Limestone and shale-----	5	685	
Sand-----	27	712	
Shale, dark-gray-----	144	856	
Middle Ordovician series:			
Limestone-----	279	1,135	

Well 32/8W-28N1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand and yellow clay; mixed-----	10	10	
Sand-----	20	30	
Clay, blue-----	15	45	
Devonian system:			
Upper Devonian series:			
Shale-----	9	54	
Silurian system:			
Middle Silurian series:			
Limestone, hard, white-----	1	55	Dolomite or dolomitic limestone.

Well 32/8W-28P3

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

Quaternary system:			
Recent and Pleistocene series:			
Drift-----	49	49	
Devonian system:			
Upper Devonian series:			
Shale-----	6	55	
Silurian system:			
Middle Silurian series:			
Rock-----	16	71	Dolomite or dolomitic limestone.

Well 32/8W-33D1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand-----	40	40	
Clay and shale-----	4	44	
Silurian system:			
Middle Silurian series:			
Rock, white-----	2	46	Dolomite or dolomitic limestone.

Table 3.--Selected logs of wells and test holes in Lake County--Continued

Well 32/8W-33E2

Type of record: Driller's log.

Altitude: 635 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil, sandy, black-----	10	10	
Sand-----	20	30	
Clay, blue-----	20	50	
Devonian system:			
Upper Devonian series:			
Shale-----	16	66	
Middle Devonian series?:			
Rock, brown-----	2	68	Dolomitic limestone?.
Silurian system:			
Middle Silurian series:			
Limestone, hard, white-----	6	74	Dolomite or dolomitic limestone.
Limestone, white-----	2	76	Do.

Well 32/8W-33F2

Type of record: Driller's log.

Altitude: 635 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand-----	30	30	
Clay, blue, and shale-----	10	40	
Silurian system:			
Middle Silurian series:			
Rock, white-----	23	63	Dolomite or dolomitic limestone.

Well 32/8W-33F4

Type of record: Driller's log.

Altitude: 635 feet.

Quaternary system:			
Recent and Pleistocene series:			
Drift-----	30	30	
Devonian system:			
Upper Devonian series:			
Shale-----	8	38	
Silurian system:			
Middle Silurian series:			
Rock-----	6	44	Dolomite or dolomitic limestone.

Well 32/9W-5A1

Type of record: Driller's log.

Altitude: 680 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay and sand-----	25	25	

Table 3.--Selected logs of wells and test holes in Lake County--Continued

Well 32/9W-5A1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Silurian system:			
Middle Silurian series:			
Shale and lime-----	107	132	Dolomite or dolomitic limestone.
Lime-----	248	380	Do.
Lime, sandy-----	90	470	Do.
Lime-----	100	570	Do.
Ordovician system:			
Upper Ordovician series:			
Lime with shale breaks-----	75	645	
Shale and lime-----	75	720	
Shale, sandy, and lime-----	100	820	
Shale-----	55	875	
Middle Ordovician series:			
Lime-----	340	1,215	
Sand and lime-----	15	1,230	
Lime-----	16	1,246	
Sand-----	109	1,355	
Ordovician and Cambrian system:			
Lower Ordovician and Upper Cambrian series; undifferentiated:			
Lime-----	85	1,440	
Lime and sand-----	30	1,470	
Lime-----	50	1,520	
Lime, sandy-----	30	1,550	
Lime and sand-----	40	1,590	
Lime-----	40	1,630	
Chert-----	43	1,673	
Lime-----	107	1,780	
Sand and lime-----	55	1,835	
Lime and sand-----	25	1,860	
Lime-----	65	1,925	
Lime and sand-----	200	2,125	
Lime, sand, and shale-----	45	2,170	
Sand and shale-----	20	2,190	
Shale and sand-----	40	2,230	
Shale and lime-----	70	2,300	
Lime and shale-----	70	2,370	
Shale and lime-----	68	2,438	

Well 32/9W-21L1

Type of record: Driller's log.

Altitude: 631 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	2	2	
Clay, gray-----	1	3	
Sand, coarse-----	17	20	

Table 3.--Selected logs of wells and test holes in Lake County--Continued

Well 32/9W-21L2

Type of record: Driller's log. Altitude: 632 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	3	3	
Clay, black-----	1	4	
Sand, coarse-----	15	19	

Well 32/9W-28C2

Type of record: Driller's log. Altitude: 628 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand and black clay-----	2	2	
Sand and small gravel-----	1	3	
Sand, coarse-----	11	14	

Well 32/9W-30B1

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

Quaternary system:			
Recent and Pleistocene series:			
Drift-----	33	33	
Silurian system:			
Middle Silurian series:			
Lime, dark-gray-----	23	56	
Lime, firm, light-gray-----	4	60	
Lime, coarse, light-gray-----	100	160	
Lime, light-gray-----	305	465	
Lime, blue-gray-----	50	515	
Lime, gray to brown-----	60	575	
Ordovician system:			
Upper Ordovician series?:			
Shale and lime; mixed, gray-----	35	610	
Shale, muddy, gray-----	30	640	
Shale, gray, and some lime-----	36	676	
Lime, light-gray-----	4	680	
Shale, dark-gray-----	30	710	
Shale, hard, gray-----	10	720	
Shale, brown-----	20	740	
Shale, fine, light-gray-----	20	760	
Shale, coarse, light-gray-----	80	840	
Shale and lime, brown-----	5	845	
Middle Ordovician series:			
Lime, brown-----	35	880	
Lime, grayish-brown-----	10	890	
Lime, grayish-brown, some iron--	20	910	
Lime, fine, light-gray-----	15	925	
Lime, coarse, brown-----	15	940	
Lime, fine, brown-----	40	980	

Table 3.--Selected logs of wells and test holes in Lake County--Continued

Well 32/9W-30B1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Ordovician system:			
Middle Ordovician series:			
Sand, fine, gray-----	20	1,000	
Sand, fine, hard, gray-----	70	1,070	
Lime, coarse, gray-----	10	1,080	
Lime, fine, gray-----	60	1,140	
Lime, fine, hard, light-gray----	10	1,150	
Lime, coarse, gray-----	30	1,180	
Sandstone-----	6	1,186	
Sandstone, white-----	7	1,193	
Sandstone, light-brown-----	57	1,250	
Sandstone, dark-brown-----	20	1,270	
Sandstone, light-brown-----	30	1,300	
Sandstone, soft, flaky, brown---	15	1,315	

Well 32/9W-33L1

Type of record: Sample study by unknown person.

Altitude: 630 feet.

Quaternary system:			
Recent and Pleistocene series:			
Drift-----	63	63	
Silurian system:			
Middle Silurian series:			
Dolomite, granularly crystalline, light-gray; much medium and dark-gray dense chert-----	7	70	
Dolomite, same as above, and white finely divided silica with trace of frosted sand and chert-----	25	95	
Dolomite, same as above, with trace of crystalline quartz and finely divided silica-----	9	104	
Dolomite, finely crystalline, light-gray, almost white-----	31	135	
Dolomite, silty, dove colored; with trace of gray shale and milky quartz from 135 to 150 feet-----	40	175	
Dolomite, silty, same as above, and white finely crystalline dolomite-----	10	185	
Dolomite, finely crystalline, white-----	10	195	
Dolomite and silty dolomite; same as above-----	20	215	

Table 3.--Selected logs of wells and test holes in Lake County--Continued

Well 32/9W-33L1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Silurian system:			
Middle Silurian series:			
Dolomite, granularly crystalline, light-gray, and little silty dolomite, same as above; much dense gray porcelain chert----	60	275	
Dolomite, granularly crystalline, silty, gray; with little gray translucent chert from 285 to 310 feet-----	35	310	
Dolomite, crystalline, light-gray and dove-colored, and silty dolomite; little translucent chert-----	15	325	
Dolomite, crystalline, light-gray; chert, same as above----	12	337	
Dolomite, light gray to almost white, trace of silty dolomite and light-gray chert----	43	380	
Dolomite, granularly crystalline, light-gray-----	60	440	
Dolomite, porous, white, with trace of calcite-----	15	455	
Dolomite, granularly crystalline, porous, light-gray-----	70	525	
Dolomite, granularly crystalline, white-----	52	577	
Dolomite, granularly crystalline, light-gray-----	13	590	
Dolomite, same as above, and silty dolomite; dolomite slightly greenish with trace of green shale-----	19	609	
Silt, dark gray-green, cemented with dolomite; trace of frosted sandstone from 615 feet-----	34	643	
Silt, same as above, and greenish-gray shale-----	32	675	
Ordovician system:			
Upper Ordovician series:			
Dolomite, crystalline, gray----	25	700	
Dolomite, silty, gray and dolomite, same as above-----	28	728	
Dolomite, highly crystalline, medium-gray-----	11	739	
Dolomite, same as above, with little gray shale, silty dolomite, and trace of calcite----	6	745	

Table 3.--Selected logs of wells and test holes in Lake County--Continued

Well 32/9W-33L1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Ordovician system:			
Upper Ordovician series:			
Dolomite, crystalline, white, with little gray shale, white and gray dolomitic silt, and dense chert-----	8	753	
Dolomite, crystalline, dark- gray with trace of gray shale-	12	765	
Shale, gray-----	20	785	
Shale, in part calcareous, and gray dolomitic silt-----	40	825	
Shale, calcareous, gray, little gray dolomite and calcite from 835 feet-----	28	853	
Middle Ordovician series:			
Dolomite, highly crystalline, tan, with pyrite-----	179	1,032	
Dolomite, granularly crystalline, gray, with porcelain chert to 1,070 feet, light-gray trans- lucent chert 1,070 to 1,115 feet, and trace of calcite 1,115 to 1,122 feet and 1,218 to 1,222 feet-----	190	1,222	
Dolomite, same as above, and white and yellow, rounded, frosted, medium-grained sand--	14	1,236	
Sand, same as above, chiefly fine-grained from 1,283½ to 1,314 feet, little coarse- grained 1,314 to 1,324 feet---	88	1,324	
Lower Ordovician series:			
Sandstone, same as above, and white crystalline dolomite; lots of white slightly trans- lucent and porcelain chert, some oolitic, and trace of light-green shale 1,334 to 1,347 feet-----	23	1,347	
Dolomite, highly crystalline, white, sand and trace of green shale; lots of white porcelain chert in part very white to 1,385 feet much white translucent chert 1,377 to 1,450 feet-----	103	1,450	
Dolomite, same as above, with white porcelain chert-----	60	1,510	

Table 3.--Selected logs of wells and test holes in Lake County--Continued

Well 32/9W-33L1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Ordovician system:			
Lower Ordovician series:			
Dolomite, crystalline, light-gray to almost white, with porcelain chert, in part translucent from 1,515 to 1,523 feet-----	13	1,523	
Dolomite, white; with dense white chert, trace of frosted sand, and trace of calcite from 1,536 to 1,550 feet and 1,630 to 1,640 feet-----	142	1,665	
Well 32/9W-33R2			
Type of record: Driller's log.		Altitude: 632 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay, sandy, black-----	1	1	
Sand, yellow-----	1	2	
Sand, yellow, and clay-----	1	3	
Sand, coarse, yellow-----	13	16	
Well 32/10W-1N1			
Type of record: Driller's log.		Altitude: 670 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay, red-----	12	12	
Sand-----	3	15	
Clay, blue-----	62	77	
Silurian system:			
Middle Silurian series:			
Limestone-----	26	103	Dolomite or dolomitic limestone.
Well 32/10W-13C1			
Type of record: Driller's log.		Altitude: 670 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Drift-----	80	80	
Devonian system:			
Upper Devonian series:			
Shale-----	2	82	
Silurian system:			
Middle Silurian series:			
Rock-----	6	88	Dolomite or dolomitic limestone.

Table 3.--Selected logs of wells and test holes in Lake County--Continued

Well 33/7W-7N1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	12	12	
Sand, yellow-----	10	22	
Clay, blue, and sand-----	28	50	
Sand, medium, white-----	15	65	
Sand, white-----	32	97	

Well 33/8W-7B1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	22	22	
Clay, blue, and gravel; mixed---	36	58	
Gravel and sand-----	8	66	
Sand-----	6	72	

Well 33/9W-1N1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	18	18	
Clay, blue-----	12	30	
Gravel and sand-----	8	38	
Sand-----	9	47	

Well 33/9W-7G1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	30	30	
Sand, fine-----	60	90	
Clay, blue-----	45	135	
Silurian system:			
Middle Silurian series:			
Limestone-----	15	150	Dolomite or dolomitic limestone.

Well 33/9W-7K1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	60	60	
Sand, fine-----	35	95	

Table 3.--Selected logs of wells and test holes in Lake County--Continued

Well 33/9W-7K1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, blue-----	39	134	Boulder.
Rock-----	1	135	
Sand, fine-----	3	138	
Silurian system:			
Middle Silurian series:			
Shale and limestone-----	23	161	Dolomite or dolomitic limestone.

Well 33/9W-8M1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, red-----	17	17	
Sand-----	4	21	
Clay-----	34	55	
Sand-----	46	101	
Clay, blue-----	47	148	
Silurian system:			
Middle Silurian series:			
Limestone-----	15	163	Dolomite or dolomitic limestone.

Well 33/9W-8M2

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, red-----	40	40	
Sand, fine, light-colored-----	53	93	
Clay, blue-----	55	148	
Silurian system:			
Middle Silurian series:			
Limestone, white-----	17	165	Dolomite or dolomitic limestone.

Well 33/9W-12D1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	18	18	
Clay, blue-----	8	26	
Sand and gravel-----	12	38	
Sand-----	8	46	

Table 3.--Selected logs of wells and test holes in Lake County--Continued

Well 33/9W-12G1

Type of record: Driller's log.

Altitude: 700 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	18	18	
Sand and gravel-----	14	32	
Clay, blue-----	13	45	
Sand and gravel-----	12	57	
Sand-----	4	61	

Well 33/9W-12H2

Type of record: Driller's log.

Altitude: 710 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	21	21	
Clay, blue, and gravel-----	15	36	
Sand-----	10	46	

Well 33/9W-12H3

Type of record: Driller's log.

Altitude: 700 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	21	21	
Clay, blue-----	27	48	
Sand-----	7	55	

Well 33/9W-16E1

Type of record: Driller's log.

Altitude: 745 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	65	65	
Sand-----	6	71	
Clay-----	25	96	
Sand-----	25	121	
Clay-----	47	168	
Silurian system:			
Middle Silurian series:			
Rock-----	535	703	Dolomite or dolomitic limestone.

Well 33/9W-24B1

Type of record: Driller's log.

Altitude: 720 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	10	10	
Sand, yellow-----	18	28	

Table 3.--Selected logs of wells and test holes in Lake County--Continued

Well 33/9W-24B1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, blue-----	13	41	
Clay, blue, sand, and gravel---	29	70	
Sand-----	12	82	

Well 33/9W-25F1

Type of record: Driller's log.		Altitude: 700 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Dirt, black-----	2	2	
Clay, yellow-----	16	18	
Clay, blue, and gravel; mixed---	22	40	
Gravel, coarse -----	2	42	
Sand-----	8	50	

Well 33/9W-26A1

Type of record: Driller's log.		Altitude: 680 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Drift-----	73	73	
Silurian system:			
Middle Silurian series:			
Limestone, gray-----	525	598	Dolomite or dolomitic limestone.
Ordovician system:			
Upper Ordovician series:			
Shale, red-----	9	607	
Slate, green-gray-----	33	640	
Limestone, shelly-----	65	705	Fossiliferous.
Limestone-----	30	735	Saline water reported from 715 to 735 feet.
Limestone, dark-gray-----	60	795	
Shale-----	55	850	
Middle Ordovician series:			
Limestone, dark-gray-----	20	870	
Limestone, hard, white-----	20	890	
Limestone, gray-----	135	1,025	

Well 33/9W-29G1

Type of record: Driller's log.		Altitude: 720 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	18	18	
Clay, gray, and gravel; mixed---	50	68	

Table 3.--Selected logs of wells and test holes in Lake County--Continued

Well 33/9W-29G1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, fine, gray-----	22	90	
Clay, blue-----	58	148	
Gravel and sand-----	1	149	
Silurian system:			
Middle Silurian series:			
Limestone, white-----	1	150	Dolomite or dolomitic limestone.

Well 33/9W-30E1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	21	21	
Sand, fine-----	61	82	
Clay, blue-----	52	134	
Silurian system:			
Middle Silurian series:			
Limestone-----	16	150	Dolomite or dolomitic limestone.

Well 33/10W-25M1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand-----	60	60	
Clay-----	6	66	
Sand-----	14	80	
Clay, blue-----	43	123	
Silurian system:			
Middle Silurian series:			
Limestone-----	2	125	Dolomite or dolomitic limestone.

Well 34/7W-6R1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	21	21	
Clay, blue-----	9	30	
Sand-----	15	45	

Table 3.--Selected logs of wells and test holes in Lake County--Continued

Well 34/7W-8N1

Type of record: Driller's log.

Altitude: 730 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, red-----	42	42	
Sand, fine, gray-----	21	63	
Clay, gray-----	27	90	
Sand, fine, gray-----	30	120	
Clay, blue-----	45	165	
Devonian system:			
Upper Devonian series:			
Shale-----	4	169	
Silurian system:			
Middle Silurian series:			
Limestone-----	13	182	Dolomite or dolomitic limestone.

Well 34/7W-20D1

Type of record: Driller's log.

Altitude: 750 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	21	21	
Clay, blue-----	52	73	
Sand-----	16	89	

Well 34/7W-20D2

Type of record: Driller's log.

Altitude: 760 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	5	5	
Clay, yellow-----	32	37	
Clay, blue-----	33	70	
Clay and shale-----	5	75	
Clay, shale, and sand-----	2	77	
Clay-----	6	83	
Shale-----	4	87	
Sand-----	3	90	
Gravel-----	6	96	

Well 34/7W-28E1

Type of record: Driller's log.

Altitude: 740 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	30	30	
Sand-----	5	35	
Sand, gravel, and clay-----	12	47	
Clay, blue-----	23	70	

Table 3.--Selected logs of wells and test holes in Lake County--Continued

Well 34/7W-28E1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and soap stone (shale)-----	10	80	
Sand and gravel-----	5	85	
Sand-----	15	100	

Well 34/7W-29J1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	35	35	
Gravel-----	10	45	
Sand and gravel-----	10	55	
Sand-----	5	60	
Sand-----	21	81	

Well 34/8W-4N2

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	1	1	
Clay, sandy, brown-----	12	13	
Clay, sandy, gray-----	12	25	
Sand, medium-----	15	40	
Sand, fine-----	14	54	
Sand, medium-----	46	100	
Clay-----	4	104	

Well 34/8W-5A1

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	1	1	
Clay, sandy, brown-----	7	8	
Clay, sandy, gray-----	23	31	
Sand, fine, muddy-----	21	52	
Sand, brown-----	27	79	
Clay, gray-----	4	83	

Well 34/8W-5F1

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	5	5	
Clay, blue-----	25	30	

Table 3.--Selected logs of wells and test holes in Lake County--Continued

Well 34/8W-5F1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, coarse-----	5	35	
Sand and shale-----	5	40	
Sand, fine-----	5	45	
Sand-----	9	54	

Well 34/8W-5G1

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	1	1	
Clay, sandy, brown-----	13	14	
Clay, gray-----	15	29	
Sand, fine, muddy-----	11	40	
Sand, fine-----	4	44	
Sand, medium-----	29	73	
Clay, gray-----	3	76	

Well 34/8W-5J1

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	1	1	
Clay-----	22	23	
Clay, gravelly-----	4	27	
Clay, very soft-----	7	34	
Gravel, black, with sand and clay-----	4	38	
Sand, fine to medium-----	12	50	
Sand-----	23	73	
Clay-----	3	76	
Sand-----	10	86	
Clay-----	14	100	

Well 34/8W-5K1

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

Quaternary system:			
Recent and Pleistocene series:			
Soil-----	2	2	
Clay, hard-----	30	32	
Clay, sandy-----	20	52	
Sand, muddy-----	8	60	
Sand, medium-----	45	105	Clay at 105 feet.