

STATE OF INDIANA
INDIANA DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

BULLETIN NO. 13

GROUND-WATER RESOURCES
OF NORTHWESTERN INDIANA

Preliminary Report: LaPorte County



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

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Donald E. Foltz, Director

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Charles H. Bechert, Director

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BY

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GROUND-WATER RESOURCES OF NORTHWESTERN INDIANA

Preliminary Report: La Porte County

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

ABSTRACT

La Porte County in northwestern Indiana has an area of about 611 square miles. Glaciofluvial sand and gravel of Pleistocene age are the chief source of ground water in the county for domestic and stock, industrial, and public supplies. Wells in this source generally are less than 200 feet deep and yield from 5 to 2,000 gpm (gallons per minute). The underlying bedrock is not used as a source of ground water except in a few places. However, the bedrock of Devonian or Devonian and Mississippian(?) age is a potential source of water of uncertain quality. Field chemical analyses show that the water from the unconsolidated rocks is moderately hard to very hard, and the hardness is generally greater than 200 ppm and less than 500 ppm. In much of the county the concentration of iron exceeds the maximum concentration recommended in the U. S. Public Health Service drinking-water standards for iron and manganese together.

This preliminary report contains tabulated records of about 900 wells and test holes and 5 springs giving information about well construction, water level, condition of occurrence, and characteristics of water-bearing material; selected logs for about 400 wells and test holes giving driller's description of material penetrated and authors' interpretation of their geologic age; results for about 200 field chemical analyses giving hardness of water and the bicarbonate, carbonate, chloride, iron, and sulfate content; and water levels in 7 observation wells indicating the magnitude of short-term and long-term water-level fluctuations in the 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 La Porte County shows the location of each well, test hole, and spring listed in this report. Additional maps show the availability of ground water in the county and the distribution of the hardness of water in the unconsolidated rocks of Pleistocene age.

INTRODUCTION

Purpose and Scope

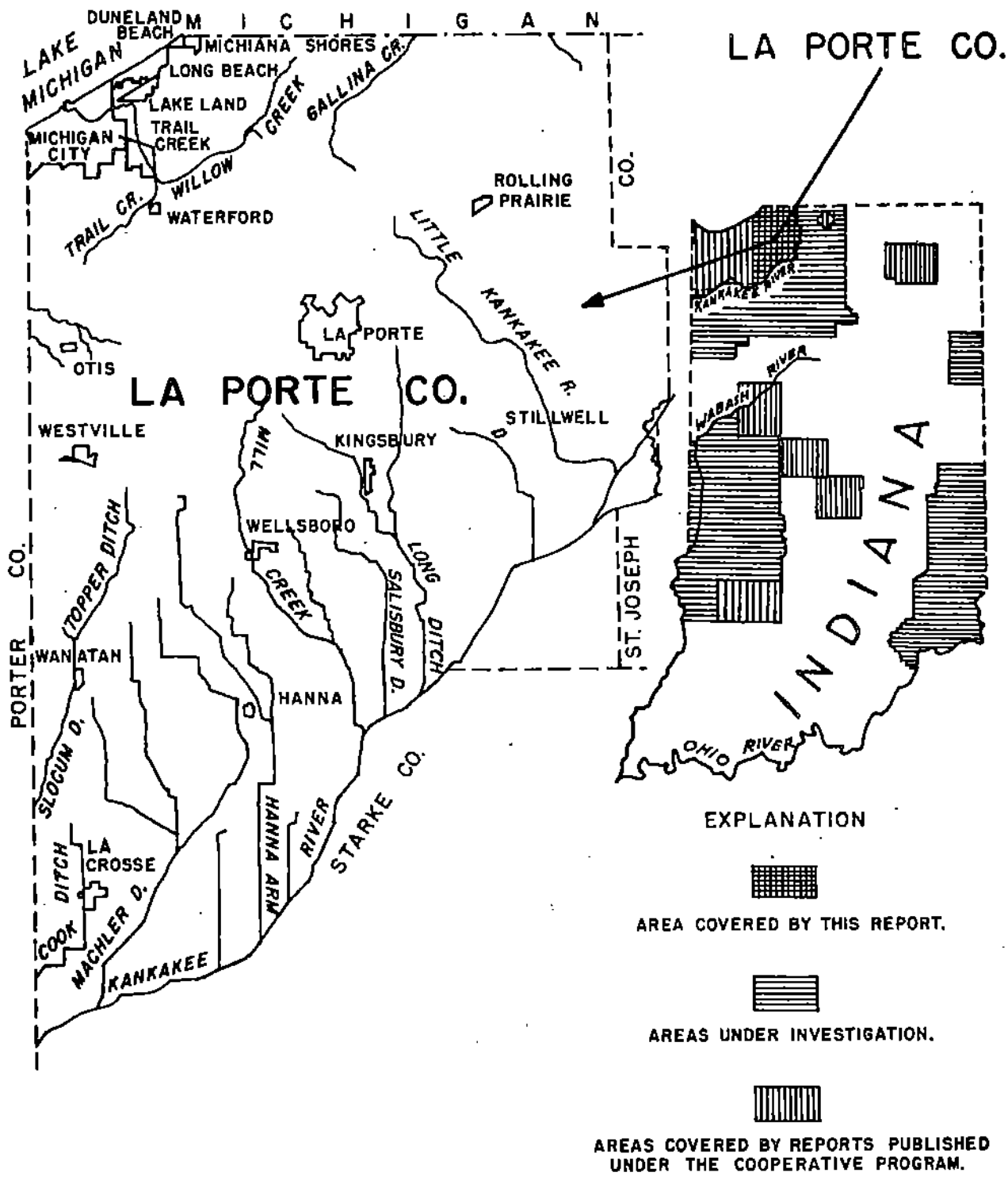
An investigation of the ground-water resources and geology of ten counties in northwestern Indiana has been in progress since June 1954. This investigation is being made by the U. S. Geological Survey in cooperation with the Division of Water Resources, Indiana Department of Conservation, as a part of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

This report is the third 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 of Indiana.

Location and Areal Extent

La Porte County is in the northwestern part of Indiana (fig. 1). The county approximates an elongated rectangle with irregularly shaped boundaries and includes about 611 square miles. It is bounded on the north by Lake Michigan and the State of Michigan, on the south by Starke County, on the west by Porter County, and on the east by St. Joseph County.



SEE PAGE 181 FOR LIST OF PUBLISHED REPORTS.

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, test holes, and springs in this report. The number that is assigned each well, test hole, or spring indicates its location according to the official rectangular public-land survey. For example, in the number for well 36/2W-23L1 the numbers preceding the hyphen indicates that the well is in T. 36 N., R. 2 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, test holes, and springs are numbered consecutively. Therefore, well 23L1 is the first well listed in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 23, T. 36 N., R. 2 W.

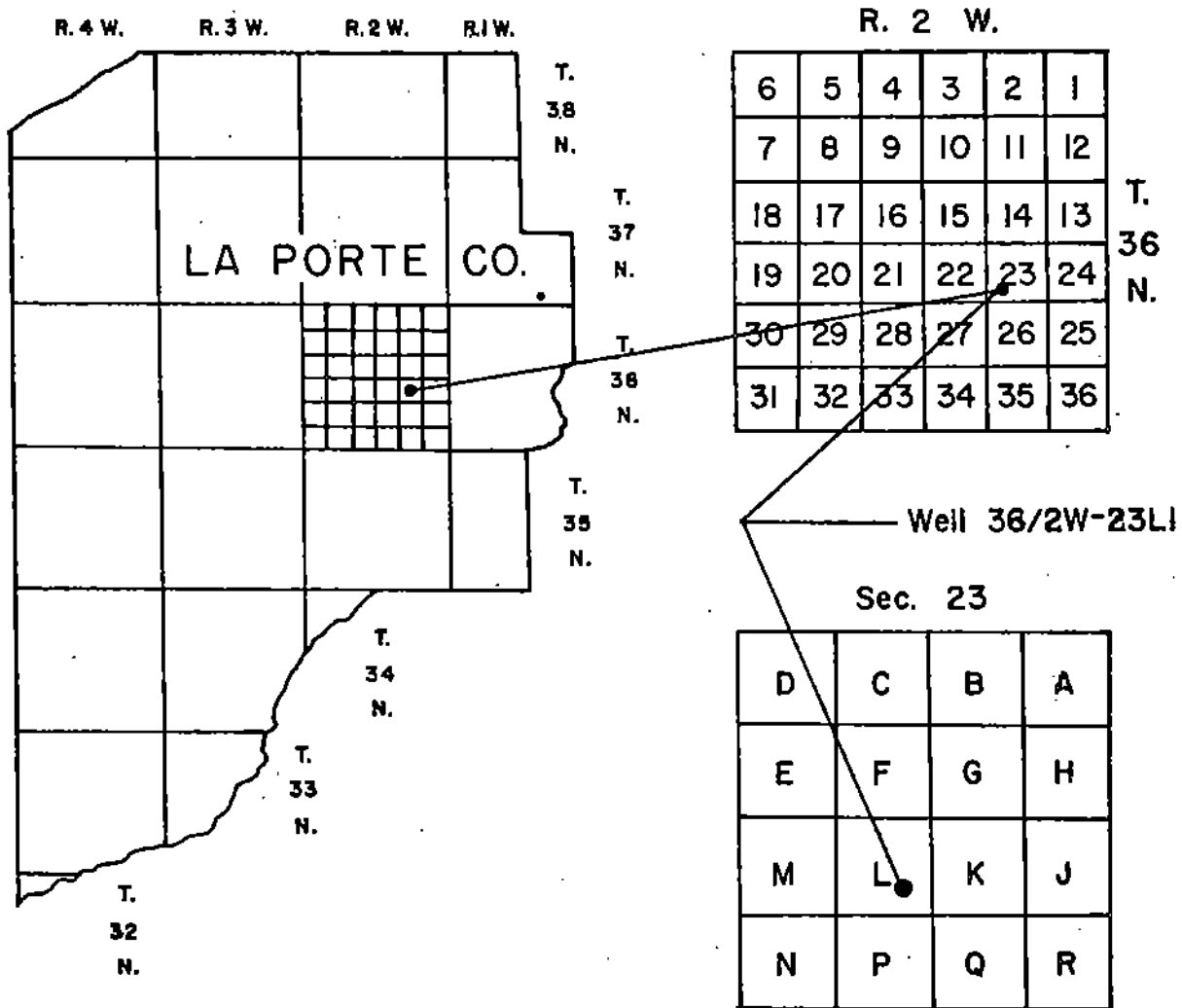


FIGURE 2.--Sketch showing well-numbering system.

Acknowledgments

The authors thank all persons who contributed time, information, and assistance during the collection, tabulation, and processing of data for this report. W. J. Steen of the Indiana Department of Conservation assisted in the processing of data in the field. G. F. Westinghouse of the Topographic Division of the Geological Survey provided elevations determined by the Topographic Division for unpublished topographic quadrangle maps of the county. Well drillers, whose names are listed in the table of well records, furnished much of the information summarized in tables 2 and 3.

The authors thank 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; and Indiana State Board of Health.

DATA COLLECTION AND PROCESSING

The well data were collected principally from drillers, water-works superintendents, and owners. The well records obtained from the drillers were of two types--written records and reports from memory. Tentative driller's locations were checked against the property records in the County Courthouse to verify the location, to locate the property, and to obtain the name of the current property owner. 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, test holes drilled for purposes other than water supply, and springs. Most of these locations are shown to the nearest 10 acres. The basic data for the wells, test holes, and springs are summarized in table 2. In addition, selected driller's logs of wells and test holes are given in table 3.

Samples of water were collected at the time the well and spring 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 by a visual method. The iron concentration was determined by matching the color of the treated sample to that of a liquid-color standard having a definite iron concentration in parts per million. 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 Geological Survey.

Observation wells were established prior to and during 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 collected

from these wells. The observation wells were chosen so as to obtain water-level information from artesian and water-table aquifers consisting of unconsolidated rocks. Whenever possible, the wells were established at sites where the factors affecting the water levels in the aquifer were due chiefly to natural causes.

GENERAL GEOLOGY AND SOURCES OF GROUND WATER

The oldest known consolidated rocks underlying La Porte County are of Ordovician age. These rocks consist of dolomitic limestone and shale and are overlain by dolomitic limestone, shale, and dolomite of Middle Silurian age. The rocks of Ordovician and Silurian age are not used as a source of water supply in the county because they generally lie more than 400 to 500 feet below the surface, and the water they contain is highly mineralized, having generally more than 5,000 ppm (parts per million) dissolved solids.

The rocks of Middle Silurian age are overlain by dolomitic limestone of Middle Devonian age. These rocks underlie blue-black bituminous shale of Devonian age (Logan, 1932) or Devonian and Mississippian age (Patton, 1956). This shale is listed as Devonian age in table 3. Few water wells have been drilled into the rocks of Devonian and Devonian and Mississippian(?) age. Although these limestones and shales are not extensively used as a source of water in La Porte County, they are a potential source of water of uncertain quality and quantity. Locally the rocks of Devonian and Mississippian(?) age grade upward into shale of Mississippian age.

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, pl. 6; Wayne, 1958) such as the Valparaiso moraine which trends northeast-southwest across the northern one-third of the county, the former beaches and lake bottoms of glacial Lake Chicago in the extreme northwestern part, and the glaciofluvial plain in the southern part.

The unconsolidated rocks of Pleistocene age range in thickness from about 20 to more than 325 feet. The rocks consist of glaciofluvial sand and gravel, clayey till, and glaciolacustrine clay, silt, and sand. Glaciofluvial sand and gravel underlies most of the county and locally is more than 170 feet thick. The sand and gravel is the chief source of ground water for domestic and stock, industrial, and public supplies. Wells are generally less than 200 feet deep in this aquifer and yield from 5 to 2,000 gpm.

The unconsolidated rocks of Pleistocene age are overlain locally by thin alluvium, eolian sand, and organically rich sand, silt, and clay of Recent age. The deposits of Recent age are too thin to be a source of groundwater.

Plate 2 shows the availability of ground water in the unconsolidated rocks underlying the county. Plate 3 shows the distribution of hardness of water from the sand and gravel of Pleistocene age. The water is hard to very hard. The hardness is generally greater than 200 ppm and less than 500 ppm. However, in several sizeable areas in the northern part of the county the hardness of water is less than 200 ppm. In much of the county the iron content exceeds maximum concentration recommended in the U. S. Public Health Service drinking-water standards for iron and manganese together. In the northeastern part there are several areas where this standard is not exceeded by the iron concentration.

CONFINED AND UNCONFINED CONDITIONS

Ground water occurs in the consolidated and unconsolidated rocks of La Porte 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.

TYPES OF WELLS

Drilled, driven, and jetted wells are the principal types of water wells used in La Porte 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. Where 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, p. 6, for a detailed description of a well screen.) A modification of this type of well, the gravel-packed well, has a gravel lining inserted between the well screen and the water-bearing material. Where the water-bearing material is consolidated rock, the well casing is generally driven a short distance into the rock, and the well is finished as an open hole.

Water wells less than 3-inches in diameter are constructed in unconsolidated material by driving or jetting. The driven well consists of a small-diameter pipe having a drive point attached to the end, which is driven into shallow water-bearing material. The jetted well is constructed by forcing water under pressure out of a hollow-rod or small-diameter drill pipe that is fitted with a jetting bit. As the material is washed out of the hole ahead of the casing, the casing is driven 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.

Oil or gas explorations generally are drilled by the cable-tool or rotary 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.

Table 1.--Grain size and equivalent screen openings

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

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

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

SUMMARY

Preliminary evaluation of the basic data shows that adequate quantities of ground water are available for domestic, stock, and locally for public and industrial supplies from sand and gravel of Pleistocene age. The rocks of Devonian or Devonian and Mississippian(?) age, underlying the glacial deposits, are used only as a minor source of water and are a potential source of water of uncertain quality and quantity. The Pre-Devonian bedrock is not used as a source in the county.

The quality of water from the rocks of Pleistocene age varies. The hardness of water is generally greater than 200 ppm and less than 500 ppm. However, in several sizeable areas in the northern part of the county the hardness of water is less than 200 ppm. Locally the iron content exceeds the maximum concentration recommended in the U. S. Public Health Service drinking-water standards for iron and manganese together.

RECORDS

The records of about 900 wells and test holes and 5 springs 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 or extrapolated from aerial photographs using the vertical control of the Topographic Division of the Geological Survey. 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 400 wells and test holes. This table gives the driller's description of the material encountered, pertinent remarks with regard to the material, and authors' interpretation of the geologic age of the material.

The results of 203 partial chemical analyses of water are given in table 4. Of this number 198 were determined in the field office of the Geological Survey, and 5 were determined by commercial or other governmental 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; over 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 7 observation wells of which 5 were established during the investigation and the rest prior to the investigation. The water levels in the observation wells were obtained either by recording gages installed on the well or by manual measurements made with an engineer's steel tape graduated to a hundredth of a foot. The water levels are in feet below land-surface datum except where otherwise noted. Daily highest water levels are given for the observation wells equipped with recording gages, and periodic water levels are given for the observation wells measured manually. 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

- Gutstadt, A. M., 1958, Cambrian and Ordovician stratigraphy and oil and gas possibilities in Indiana: Ind. Dept. Conserv., Geol. Survey Bull. 14, 103 p.
- Harrell, Marshall, 1935, Ground Water in Indiana: Ind. 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 Indiana and Michigan and the history of the Great Lakes: U. S. Geol. Survey Mon. 53, 529 p.
- Logan, W. N., 1932, Geologic map of Indiana: Ind. Dept. Conserv., Div. Geology Pub. 112.
- Patton, J. B., 1956, Geologic map of Indiana: Ind. Dept. Conserv., Geol. Survey Atlas Mineral Resources Map 9.
- Rosenshein, J. S., and Cosner, O. J., 1956, Ground-water resources of Tippecanoe County, Indiana: Appendix, basic data: Ind. Dept. Conserv., Div. Water Resources Bull. 8, 67 p.
- U. S. Geological Survey, issued annually, Water levels and artesian pressure in observation wells in the United States: U. S. Geol. Survey Water-Supply Papers 944, 986, 1016, 1023, 1071, 1096, 1126, 1156, 1165, 1191, 1221, 1265, 1321, and 1404.
- Wayne, W. J., 1958, Glacial Geology of Indiana: Ind. Dept. Conserv., Div. Geol. Atlas Mineral Resources Map 10.

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

Well: See text for description of well-numbering system.
 Altitude: Altitude of land-surface datum from topographic maps, except as noted in text p. 6.
 Type of well: B, bored; Da, driven; Dr, drilled; Du, dug; J, jetted.
 Finish: dia, diameter in inches; K, gauge size; Gp, gravel pack; Oe, open end; Oh, open hole; S, screen; Sl, slot size; Sa, sand; Sh, shale; Ss, sandstone.
 Character: G, gravel; Ls, limestone; Sd, sand; Sh, shale; Ss, sandstone.
 Geologic age: D, Devonian; M, Mississippian; P, Pleistocene; S, Silurian.
 Conditions of occurrence: C, confined; U, unconfined; see p. 7 for definition of terms.

Well	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone				Water level (feet)	Use	Type of pump and horsepower	Remarks
									Thickness (feet)	Character	Geologic age	Conditions of occurrence				
33/3W-10Q1	State of Indiana	Indiana-Michigan Water Development Co.	6-23-34	671	Dr	116	6	S; 13ft., 25in	20	Sd, G	P1	C	10	O	---	Observation well La Porte 2; water level same as 5, 89; 116 ft below land, 7-2-45; C, L, OI test; bedrock at 53 ft; L.
18H1	M. J. and A. L. Clark	-----	10-23-53	668	Dr	164	8 1/2	-----	---	Sd	P1	---	---	---	---	OII test; bedrock at 97 ft; L.
19L1	L. Ann M. Bick	-----	11-8-53	666	Dr	137	---	-----	---	Sd	P1	U	5	---	---	OII test; bedrock at 27 ft; L.
33/4W-5R1	N. F. Sheely	Layno-Northern Co., Inc.	3-57-80	680	Dr	35	6	S	22	Sd	P1	U	---	---	---	Da 3 ft pumping 15 gpm; bedrock at 36 ft; L.
8A1	Chesapeake and Ohio Railway	M. Zohring	10-10-47	675	Dr	26	6	S; 7ft., 10in	22	Sd	P1	U	6	P	J1/3	See log well 8A1.
8P1	Town of La Crosse	Layno-Northern Co., Inc.	11-10-40	675	Dr	28	---	-----	20	Sd	P1	U	R	T	---	Bedrock at 28 ft; see log well 9N2.
9N1	Trustees, Dewey Township	-----do-----	8-21-40	675	Dr	55	---	-----	---	Sd	P1	U	---	T	---	Da 3 ft pumping 10 gpm; bedrock at 28 ft; L.
9N2	-----do-----	-----do-----	1-14-41	675	Dr	250	10-8	Oh	145	Ls	D	C	17	N	---	OII test; bedrock at 50 ft; see log well 14M1.
14B1	S. Gorski	Westville Well Co.	1-24-56	671	J	28	2	S; 4ft	---	Sd	P1	U	---	D	J1/4	OII test; bedrock at 34 ft; see log well 14M1.
14G1	-----do-----	-----do-----	10-25-53	688	Dr	176	8 1/2	-----	---	Sd	P1	U	---	---	---	OII test; bedrock at 30 ft; see log well 14M1.
14M1	L. and S. Zahn	-----	11-28-53	668	Dr	1,052	8 1/2	-----	---	Sd	P1	U	---	---	---	OII test; bedrock at 22 ft; see log well 14M1.
14N1	D. Zahn	-----	7-17-42	670	Dr	130	5 1/2	-----	---	Sd	P1	U	---	---	---	OII test; bedrock at 22 ft; see log well 14M1.
15N1	A. and I. Stonecipher	-----	10-26-53	668	Dr	166	8 1/2	-----	---	Sd	P1	U	---	---	---	OII test; bedrock at 22 ft; see log well 14M1.
16D1	J. Gorski	J. West	11-12-54	674	Dr	1,152	10-5 1/2	-----	---	Sd	P1	U	---	---	---	Chin sand overlain by 10 ft clay sand and gravel.
17C1	Town of La Crosse	Layno-Northern Co., Inc.	11-15-46	674	Dr	26	---	-----	19	Sd	P1	U	7	T	---	Da 31 ft pumping 680 gpm; L.
19C1	D. Knapp	-----do-----	3-22-57	673	Dr	38	3 1/2	Gp; S; 10ft., 80in, dia 1 1/2	34	Sd, G	P1	U	4	Ir	T	Da 31 ft pumping 680 gpm; L.
18H1	K. Knapp	-----do-----	670	Dr	---	---	---	---	---	Sd	P1	U	---	D, S	---	Ch.
19Q1	D. Knapp	-----do-----	12-17-56	670	Dr	45	8	S	31	Sd, G	P1	U	8	T	---	L.
20D1	T. Collins	-----do-----	671	J	---	---	---	---	---	Sd	P1	U	5	S	---	For fire protection; sand from 0-32 ft; water level measured 6.31 ft below land, 9-4-57.
20D2	-----do-----	Westville Well Co.	1056	671	J	32	4	S; 10 1/2 ft, dia 3	26	Sd	P1	U	---	---	---	OII test; bedrock at 40 ft; L.
22A1	K. Miller	-----do-----	11-18-53	670	Dr	1,134	8 1/2	-----	---	Sd	P1	U	---	---	---	OII test; bedrock at 44 ft; L.
22B1	W. D. Hoinger	-----do-----	11-15-53	670	Dr	185	---	-----	---	Sd	P1	U	---	---	---	OII test; bedrock at 68 ft; L.
26H1	V. Silvers	-----do-----	10-20-53	667	Dr	173	---	-----	---	Sd	P1	U	---	---	---	OII test; bedrock at 68 ft; L.
27D1	H. and W. Alt	-----do-----	10-19-53	668	Dr	197	---	-----	---	Sd	P1	U	---	---	---	OII test; bedrock at 55 ft; L.
28K1	C. and B. Fritz	Layno-Northern Co., Inc.	10-17-53	665	Dr	179	---	-----	---	Sd	P1	U	---	---	---	OII test; bedrock at 55 ft; L.
34/3W-13C1	Pennsylvania Railroad	Layno-Northern Co., Inc.	5-18-39	680	Dr	101	---	-----	71	Sd, G	P1	U	9	T	---	See log well 13C4.
13C2	-----do-----	-----do-----	6-12-39	680	Dr	74	---	-----	08	Sd, G	P1	U	0	T	---	See log well 13C4.
13C3	-----do-----	-----do-----	9-7-40	680	Dr	80	---	-----	---	Sd, G	P1	U	---	T	---	See log well 13C4.

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

Well	Owner	Driller	Date Completed	Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Finish	Water-bearing zone						Remarks		
									Depth to top (feet)	Thickness (feet)	Character	Geologic age	Conditions of occurrence	Water level (feet)		Use	Type of pump and boregovernor
34/2W-130A	Pennsylvania Railroad	Layne-Northern Co., Inc.	10-3-30	680	Dr	75	8	---	6	70	Sd,G	P1	V	6	O	---	Observation well LA Porte 7; water level measured 7.4 ft below bed, 7-12-56; L, L.
1301	---	---	5-20-39	680	Dr	74	---	---	5	66	Sd,G	P1	U	5	T	---	See log well 1301.
1302	---	---	6-17-39	680	Dr	60	---	---	4	56	Sd,G	P1	U	4	T	---	Bedrock at 113 ft; L.
1301	---	---	2-10-38	675	Dr	120	---	---	28	28	Sd,G	P1	U	28	T	---	See log well 4P1.
34/4W-4D1	Kaiser Aluminum and Chemical Corp.	---	2-23-56	731	Dr	82	8	---	5	75	Sd	P1	U	5	T	---	See log well 4P1.
402	---	---	5-24-26	733	Dr	79	28	Gp; S; 20ft, 30in, dia 10	2	78	Sd	P1	V	2	I	T15	Dr 24.5 ft pumping 3-10 gpm; see log well 4P1; Ca.
4P1	Pennsylvania Railroad	---	1-3-30	734	Dr	227	---	---	6	77	Sd	P1	U	6	T	---	Bedrock, at 83 ft, yielded 5 gpm with 60 ft dd; L.
4P2	---	---	12-3-36	734	Dr	84	30	Gp; S; 20ft, 105in, dia 10	9	75	Sd	P1	U	9	N	T	Dr 9 ft pumping 200 gpm; see log well 4P1.
7K1	Nickel Plate Railroad	---	7-24-54	722	Dr	70	12	---	9	61	Sd	P1	C	4	R	T10	See log well 7K2.
7K2	---	---	11-30-54	722	Dr	75	---	---	9	63	Sd,G	P1	---	---	---	---	Bedrock at 72 ft; L.
2031	H. Tidholm	T. Brynick	1952	708	Dr	30	4	S; 10ft, 14in	7	33	Sd,G	P1	V	7	Tr	---	Oil test; bedrock at 150 ft; 88 ft shale underlain by Ca, L.
35/1W-4P1	H. Smith	Strayer Drilling Co.	---	687	J	37	2	S; 3 1/2ft, 10in, dia 1 1/2	---	---	G	P1	---	---	---	---	See log well 7K2.
16D1	Mr. Place	Shell Oil Co.	1941	689	Dr	248	---	---	---	---	---	---	---	---	---	---	Bedrock at 72 ft; L.
17R1	Indiana State Highway Department	Strayer Drilling Co.	5-17-56	690	Dr	40	4	S; 4 1/2ft, 80g, dia 2	9	31	Sd,G	P1	V	9	P	P	Oil test; bedrock at 150 ft; 88 ft shale underlain by Ca, L.
35/2W-1W1	---	---	1-13-31	689	Dr	68	8	S; 20ft, 12in, dia 7 1/2	48	27	Sd	P1	C	5	---	---	Dr 9 ft after 5 hr pumping 50 gpm; temp 52; L.
3A1	---	---	9-22-31	730	Dr	86	---	---	20	66	Sd	P1	U	20	---	---	See log well 3A2.
3A2	---	---	11-12-31	730	Dr	84	34	Gp; S; 20ft, 105in, dia 12	20	64	Sd	P1	U	20	---	---	Dr 35 ft after 7.5 hr pumping 870 gpm; temp 52; L.
3C1	---	---	5-3-31	730	Dr	68	---	---	18	50	Sd	P1	U	18	---	---	See log well 3C2.
3C2	---	---	5-29-31	730	Dr	68	34	Gp; S; 15ft, 105in, dia 12	18	50	Sd	P1	U	18	---	---	Dr 26 ft pumping 850 gpm; L.
3D1	---	---	12-7-40	736	Dr	63	10	S; 20ft, 12in, dia 9	19	44	Sd	P1	U	19	---	---	Dr 4 ft after 5 hr pumping 100 gpm; Ca, L.
3K1	---	---	2-19-41	728	Dr	84	8	S; 20ft, 12in, dia 7 1/2	20	67	Sd	P1	U	20	---	---	Dr 3 ft after 5 hr pumping 55 gpm; temp 52; L.
411	---	---	2-5-41	730	Dr	72	6	S; 20ft, 20in, dia 7 1/2	17	58	Sd	P1	U	17	---	---	Dr 4 ft after 5 hr pumping 55 gpm; temp 52; see log well 4M2.
4M1	---	---	5-23-41	730	Dr	75	---	---	---	---	Sd	P1	U	---	---	---	See log well 4M2.
4M2	---	---	9-11-41	730	Dr	76	34	Gp; S; 25ft, 105in, dia 12	10	57	Sd	P1	U	16	---	---	Dr 33.5 ft after 8 hr pumping 840 gpm; temp 52; L.
4M3	---	---	4-4-45	730	Dr	76	---	---	---	---	Sd	P1	U	---	---	---	L.
5D1	---	---	5-26-41	727	Dr	89	---	---	14	70	Sd	P1	U	14	---	---	Dr 35 ft after 8 hr pumping 680 gpm; temp 52; L.
5D2	---	---	6-25-41	727	Dr	87	34	Gp; S; 15ft, 105in, dia 12	14	70	Sd	P1	U	14	---	---	Dr 2.3 ft after 5 hr pumping 55 gpm; temp 52; see log well 5J1.
5J1	---	---	2-10-41	732	Dr	64	8	S; 20ft, 20in, dia 7 1/2	18	47	Sd	P1	V	18	---	---	Dr 2.3 ft after 5 hr pumping 55 gpm; temp 52; L.
5L1	---	---	1-28-41	730	Dr	72	8	---	20	52	Sd	P1	V	20	---	---	See log well 5D2.
7J1	---	---	9-19-31	730	Dr	97	---	---	20	77	Sd	P1	U	20	---	---	Dr 35 ft after 8 hr pumping 880 gpm; L.
7J2	---	---	10-17-31	730	Dr	95	34	Gp; S; 20ft, dia 12	27	70	Sd	P1	U	27	---	---	Dr 24 ft pumping 880 gpm; L.
8G1	---	---	1-24-41	726	Dr	72	8	S; 20ft, 20in, dia 7 1/2	20	61	Sd	P1	U	20	---	---	Dr 2 ft after 5.5 hr pumping 35 gpm; temp 52; L.
10E1	---	---	1-30-41	720	Dr	68	8	S; 20ft, 12in, dia 7 1/2	19	77	Sd,G	P1	U	19	---	---	Dr 2 ft after 5 hr pumping 55 gpm; temp 52; L.

Well No.	Owner	Company	Date	Dr	54	4	9	45	Sd	P1	U	9	4	0	---	---	---	---
11W1	U. S. Government	Layne-Northern Co., Inc.	11-21-41	710	Dr	54	4	S; 7ft, 12sal, dia 3	---	P1	U	9	---	---	---	---	---	Dr 10 ft pumping 17 gpm; L.
12A1	---	---	1-8-41	688	Dr	90	8	S; 20ft, 12sal dia 7 1/2	---	P1	C	4	0	---	---	---	---	Dr 12 ft after 5 hr pumping 50 gpm; observation well La Porto 4; water level measured 1.80 ft below lsd, 11-4-55; L.
12A2	---	---	5-16-41	685	Dr	104	34	Gp; S; 15ft, 105sal, dia 12	---	P1	C,U	4	---	---	---	---	---	Dr 14 ft pumping 1,000 gpm; see log well 12A1.
12A3	---	---	7-14-41	685	Dr	50	---	---	---	P1	U	4	---	---	---	---	---	---
12H1	---	---	5-13-41	685	Dr	104	---	---	---	P1	C,U	5	---	---	---	---	---	---
12H2	---	---	5-9-41	680	Dr	95	---	---	---	P1	U	5	---	---	---	---	---	---
16B1	---	---	9-19-41	688	Dr	78	8	S; 12ft, 12sal, dia 7 1/2	---	P1	C	4	---	---	---	---	---	---
16C1	---	---	1-18-41	715	Dr	40	8	S; 20ft, 12sal, dia 7 1/2	---	P1	U	18	---	---	---	---	---	---
18N1	---	---	1-31-41	718	Dr	50	2 1/2	S; 7ft, 60g, dia 1 1/2	---	P1	V	17	---	---	---	---	---	---
18N2	---	---	5-13-42	721	Dr	101	---	---	---	P1	V	10	T	---	---	---	---	---
18N3	---	---	5-15-42	718	Dr	100	---	---	---	P1	V	19	T	---	---	---	---	---
18N4	---	---	5-21-42	723	Dr	102	---	---	---	P1	V	17	T	---	---	---	---	---
18N5	---	---	5-26-42	723	Dr	100	---	---	---	P1	V	---	T	---	---	---	---	---
18N6	---	---	6-24-42	724	Dr	87	---	---	---	P1	V	19	T	---	---	---	---	---
18N7	---	---	8-30-42	725	Dr	70	34	Gp; S; 20ft, dia 12	---	P1	V	20	P	---	---	---	---	---
18N8	---	---	10-3-42	723	Dr	74	34	Gp; S; 20ft, 105sal, dia 12	---	P1	U	21	P	---	---	---	---	---
21N1	---	---	10-24-42	724	Dr	66	34	---	---	P1	U	20	P	---	---	---	---	---
30G1	---	---	1041	687	Dr	300	---	---	---	---	---	---	---	---	---	---	---	---
30G2	---	---	3-20-47	691	Dr	298	6	---	---	---	---	---	---	---	---	---	---	---
35/3W-10N1	---	---	3-26-47	689	Dr	24	6	S; 5ft, 16sal, dia 5 1/2	---	P1	U	5	I	---	---	---	---	---
12B3	---	---	About 1930	746	Dr	50	8	S	---	P1	---	---	I	L5	---	---	---	---
25/4W-31P1	---	---	720	J	40	4	4	S; 20ft	---	P1	---	---	8	N	---	---	---	---
38/1W-4D1	---	---	3-12-57	738	Dr	184	4	Ch	---	M?	C	15	P	---	---	---	---	---
432	---	---	9-21-31	700	Dr	675	10	---	---	P1	V	17	---	---	---	---	---	---
5N1	---	---	4-12-32	700	Dr	1,738	10-6 1/2	---	---	P1	U	33	D	---	---	---	---	---
10B1	---	---	1-4-57	752	J	50	2	S; 4 1/2ft, 60g, dia 1	---	P1	C	7	P	---	---	---	---	---
18K1	---	---	3-14-56	695	J	26	2	S; 3 1/2ft, 80g, dia 1 1/2	---	G,Sd	---	---	---	---	---	---	---	---
21G1	---	---	7-3-59	705	J	28	2	S; 4ft, 60g, dia 1	---	P1	V	10	D	---	---	---	---	---
23B1	---	---	1041	691	Dr	330	---	---	---	---	---	---	---	---	---	---	---	---
27N1	---	---	1-28-47	692	J	42	2	S; 3ft, 80g, dia 1 1/2	---	P1	---	---	6	D	J1/2	---	---	---
30N1	---	---	1941	689	Dr	300	---	---	---	---	---	---	---	---	---	---	---	---
33N1	---	---	10-20-41	687	Dr	1,368	8-3 1/2	---	---	---	---	---	---	---	---	---	---	---
34N1	---	---	1941	690	Dr	310	---	---	---	P1	---	---	---	---	---	---	---	---
36/2W-5C1	---	---	9-2-43	790	Dr	1,565	8 1/2	---	---	---	---	---	---	---	---	---	---	---
6E1	---	---	4-4-47	795	Dr	85	8	S; 20ft, 15sal, dia 5 1/2	---	P1	U	16	Ir	T20	---	---	---	---
6E2	---	---	2-3-54	795	Dr	100	12	S; 20ft, 12sal, dia 1 1/2	---	P1	C	17	Ir	T40	---	---	---	---

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

Well	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Motor-bearing zone					Water level (feet)	Use	Type of pump and horsepower	Remarks
									Depth to top (feet)	Thickness (feet)	Character	Geologic age	Conditions of occurrence				
50/2W- 6EJ	V. Dornacchi	Indiana-Michigan Water Development Co.	2- 7-37	795	Dr	88	8	S; 20ft	19	69	S4,G	P1	C	18	Ir	---	Dd 31 ft pumping 360 gpm; screen, upper 15 ft 17 slot, lower 5 ft 15 slot; L. Yield 50 gpm; sand overlain by 4 ft top well. Dd 7 ft after 2.5 hr pumping 55 gpm; Ca, L. Oil test; bedrock at 220 ft; 211 ft shale underlain by 9 ft dolomite. Oil test; bedrock at 209 ft; 166 ft shale underlain by 5 ft dolomite. Yield 13 gpm; Ca, L. See log well 1091; Ca. Oil test; bedrock at 202 ft; 173 ft shale underlain by 5 ft limestone and 15 ft dolomite. Oil test; bedrock at 190 ft; 155 ft shale underlain by 2 ft limestone and 20 ft dolomite. Yield 13 gpm; Ca, L.
7F1	City of La Porte	-----do-----	8- 1-30	780	Dr	105	6	S; 10ft, 10x1, dia 5	---	---	S4	P1	---	---	N	JJ	---
7G1	-----do-----	Layne-Northern Co., Inc.	3-27-50	680	Dr	103	6	S; 10ft, 10x1	27	77	S4,G	P1	C	6	P	T5	---
7M1	V. Probst	-----do-----	-----	785	Dn	28	1 1/2	S	---	---	S4	P1	---	---	---	1/4	---
7M2	Mr. Henry	Shell Oil Co.	1941	798	Dr	440	---	---	---	---	---	---	---	---	---	---	---
8B1	Mr. Clayton	-----do-----	1941	792	Dr	380	---	---	---	---	---	---	---	---	---	---	---
16X1	B. Dornacchi	Hunts Hoosier Hardware	4-30-57	770	J	44	2	S; 4ft, 60x, dia 1	29	15	S4	P1	U	20	D	---	---
16Q1	L. Zoboresky	-----do-----	7- 2-58	745	J	53	2	-----do-----	20	14	S4	P1	U	20	D	---	---
12K1	Mr. Stoffer	Shell Oil Co.	1941	747	Dr	393	---	---	---	---	---	---	---	---	---	---	---
14N1	Mr. Whetzell	-----do-----	1941	739	Dr	367	---	---	---	---	---	---	---	---	---	---	---
15A1	M. Dohman	Hunts Hoosier Hardware	2-56	750	J	32	2	S; 3 1/2 ft, 60x, dia 1	16	18	S4,G	P1	U	16	D	J1/2	---
16B1	D. Rose	-----do-----	7-30-59	770	J	55	2	S; 4ft, 60x, dia 1	22	13	S4	P1	C	17	S	---	---
19Q1	Mr. Langan	Shell Oil Co.	1941	766	Dr	390	---	---	---	---	---	---	---	---	---	---	---
23L1	Grand Trunk Railway	D. Main	About 1913	734	Dr	257	---	---	---	---	---	---	---	---	---	---	---
26P1	H. Coppens	D. Lantz	7- 1-55	734	Dn	21	1 1/2	S; 3ft, 80x	---	---	S4	P1	---	---	S	J1/2	---
28B1	Mr. Deuler	Shell Oil Co.	1941	744	Dr	357	---	---	---	---	---	---	---	---	---	---	---
31E1	Town of Kingsbury	Layne-Northern Co., Inc.	11- 6-41	745	Dr	97	---	---	---	---	S4	P1	U	21	T	---	---
31E2	C. Bottou	-----do-----	4-18-42	745	Dr	88	8	S; 20ft, 20x1	18	70	S4,G	P1	U	18	N	---	---
31P1	U. S. Government	-----do-----	11-28-40	737	Dr	89	8	S; 20ft, 20x1, dia 7 1/2	17	72	S4	P1	U	17	O	---	---
31P2	-----do-----	-----do-----	5- 5-41	750	Dr	80	---	---	---	---	S4	P1	U	10	---	---	---
31P3	-----do-----	-----do-----	8- 7-41	736	Dr	92	3 1/2	6p; S; 15ft, 105x1, dia 12	16	76	S4	P1	U	10	---	---	---
32D1	Mr. Rawson	Shell Oil Co.	1941	749	Dr	382	---	---	---	---	---	---	---	---	---	---	---
32K1	U. S. Government	Layne-Northern Co., Inc.	12-30-40	740	Dr	84	8	S; 20ft, 20x1, dia 7 1/2	20	64	S4	P1	U	20	---	---	---
32K2	-----do-----	-----do-----	1-15-41	741	Dr	80	8	-----do-----	20	64	S4	P1	U	20	O	---	---
33J1	-----do-----	-----do-----	1-22-41	738	Dr	73	8	-----do-----	17	56	S4,G	P1	U	17	---	---	---
34L1	-----do-----	-----do-----	1- 9-41	738	Dr	67	8	-----do-----	20	49	S4	P1	U	20	---	---	---

36/3W-1E1	La Porte-Daniels Woolan Mills	-----do-----	5-13-29	800	Dr	40	8	S: 10ft, dia 4	20	90	Sd,G	Pl	U	20	N	-----do-----	1E2
1E2	-----do-----	Layne-Northern Co., Inc.	8-28-55	800	Dr	90	30	Gp: S: 30ft, 130ft, dia 8	20	90	Sd,G	Pl	U	20	N	-----do-----	1E2
1L1	A. Barnacchi	Indiana-Michigan Water Development Co.	7-24-30	797	Dr	60	6	S: 10ft, 30ft, dia 5	25	34	G,Sd	Pl	C	19	I, Ir	-----do-----	1L1
1L2	-----do-----	-----do-----	7-1-49	797	Dr	66	6	S: 10ft, 15ft, dia 5	22	44	G,Sd	Pl	C	20	I, Ir	-----do-----	1L2
1Q1	Dr. Carter	Hunts Hoosier Hardware	5-8-57	795	J	38	2	S: 4ft, 60ft, dia 1	21	19	Sd,G	Pl	U	21	D	-----do-----	1Q1
1Q2	C. Pauley	-----do-----	11-2-55	826	J	48	2	S: 4ft, 60ft, dia 1	30	18	Sd,G	Pl	U	30	D	-----do-----	1Q2
3K1	U. S. Government	Clark Drilling Co.	8-54	826	Dr	194	4	S: 10ft, 8ft	37	157	Sd	Pl	U	37	P	-----do-----	3K1
3L1	A. Dinwiddie	Hunts Hoosier Hardware	6-54	826	J	52	2	S: 4ft, 60ft, dia 1	38	14	G,Sd	Pl	U	38	D	-----do-----	3L1
3P1	Mr. Chesley	Hunts Hoosier Hardware	1940	826	J	44	2	S: 4ft, 60ft, dia 1	35	19	Sd,G	Pl	U	35	P	-----do-----	3P1
3Q1	K. Dyard	J. Dill	6-10-52	822	J	53	2	S: 4ft, 60ft, dia 1	35	19	Sd	Pl	U	35	P	-----do-----	3Q1
3Q2	R. Richman	-----do-----	9-55	826	J	53	2	S: 4ft, 60ft, dia 1	41	9	Sd	Pl	C	41	D	-----do-----	3Q2
3Q3	R. Hlbnor	Mr. Barnhouse	8-29-58	826	J	53	2	S: 4ft, 60ft, dia 1	37	14	Sd	Pl	U	37	D	-----do-----	3Q3
3Q4	Mr. Dietz	Hunts Hoosier Hardware	Spring 1932	823	J	42	2	S: 3ft, 60ft, dia 1	37	14	Sd	Pl	U	37	D	-----do-----	3Q4
3Q5	S. Seall	A. Good	9-35	835	J	60	2	S: 3ft, 60ft	37	14	Sd	Pl	U	37	D	-----do-----	3Q5
3R1	E. Plinkerton	D. Lantz	8-24-54	840	J	8D	2	S: 4ft, 60ft, dia 1	65	4	Sd,G	Pl	C	5D	D	-----do-----	3R1
5M1	Scipio Township Volunteer Fire Department	Hunts Hoosier Hardware	6-1-54	815	Dr	40	2	S: 4ft, 60ft, dia 1	28	12	Sd	Pl	C	13	S	-----do-----	5M1
6M1	H. Hughes	Westville Well Co.	6-1-54	815	Dr	40	2	S: 4ft, 60ft, dia 1	28	12	Sd	Pl	C	13	S	-----do-----	6M1
6R1	C. Levanduski	-----do-----	6-12-57	815	Dr	76	2	S: 3ft, 60ft, dia 1	30	10	Sd,G	Pl	U	30	D	-----do-----	6R1
9R2	-----do-----	-----do-----	7-5-58	815	J	46	2	S: 4ft, 60ft, dia 1	30	29	Sd,G	Pl	U	30	D	-----do-----	9R2
10A1	K. Anderson	Hunts Hoosier Hardware	7-1-59	815	J	57	2	S: 3ft, 60ft, dia 1	36	36	G,Sd	Pl	C	38	P	-----do-----	10A1
10A2	J. Croner	Westville Well Co.	-----do-----	815	J	57	2	S: 3ft, 60ft, dia 1	36	36	G,Sd	Pl	C	38	P	-----do-----	10A2
10A3	A. Lower	-----do-----	7-28-44	815	Dr	97	6	S: 20ft, 20ft, dia 5	45	52	Sd	Pl	C	34	P	-----do-----	10A3
10A4	Meyer Construction Co.	Indiana-Michigan Water Development Co.	-----do-----	815	Dr	97	6	S: 20ft, 20ft, dia 5	45	52	Sd	Pl	C	34	P	-----do-----	10A4
10C1	La Porte County Asylum	-----do-----	9-15-58	815	J	50	2	S: 4ft, 60ft, dia 1	43	7	Sd	Pl	C	32	D	-----do-----	10C1
10C2	-----do-----	-----do-----	2-4-57	815	J	46	2	S: 4ft, 60ft, dia 1	43	7	Sd	Pl	C	32	D	-----do-----	10C2
10G1	W. Baker	Hunts Hoosier Hardware	4-25-57	820	J	40	2	S: 4ft, 60ft, dia 1	41	11	Sd,G	Pl	U	41	D	-----do-----	10G1
10H1	B. Strimburg	-----do-----	4-24-57	825	J	82	2	S: 4ft, 60ft, dia 1	41	11	Sd,G	Pl	U	41	D	-----do-----	10H1
10H2	C. Fitzsimmons	-----do-----	9-11-58	825	J	81	2	S: 4ft, 60ft, dia 1	41	11	Sd,G	Pl	U	41	D	-----do-----	10H2
10H3	P. Fitzsimmons	-----do-----	-----do-----	825	J	81	2	S: 4ft, 60ft, dia 1	41	11	Sd,G	Pl	U	41	D	-----do-----	10H3
10K1	M. Huff	Lakeland Well Drillers	4-8-54	810	Dr	28	14	S: 6ft	30	13	Sd	Pl	U	30	D	-----do-----	10K1
10L1	T. B. Davis	Hunts Hoosier Hardware	4-8-54	810	Dr	28	14	S: 6ft	30	13	Sd	Pl	U	30	D	-----do-----	10L1
10L2	Door Village	-----do-----	4-25-57	820	J	40	2	S: 4ft, 60ft, dia 1	41	11	Sd,G	Pl	U	41	D	-----do-----	10L2
10L3	Parsongage	-----do-----	4-25-57	825	J	41	2	S: 4ft, 60ft, dia 1	41	11	Sd,G	Pl	U	41	D	-----do-----	10L3
10L4	G. Glen	-----do-----	4-24-57	825	J	82	2	S: 4ft, 60ft, dia 1	41	11	Sd,G	Pl	U	41	D	-----do-----	10L4
10L5	A. Harkstead	-----do-----	-----do-----	825	J	81	2	S: 4ft, 60ft, dia 1	41	11	Sd,G	Pl	U	41	D	-----do-----	10L5
1G1	J. C. Keane	-----do-----	7-20-30	750	J	108	0	S: 10ft, 20ft, dia 5	55	54	Sd,G	Pl	C	2R	P	-----do-----	1G1
1Q1	F. Burns	-----do-----	6-1-55	775	Dr	113	0	S: 4ft, 60ft, dia 1	81	6	Sd,G	Pl	C	28	D	-----do-----	1Q1
1Q2	J. Grover	-----do-----	7-13-54	776	Dr	30	24	S: 3ft, 60ft, dia 1	11	19	Sd,G	Pl	U	11	T	-----do-----	1Q2
2D1	Indiana Toll Road Commission	-----do-----	5-13-54	775	Dr	20	24	-----do-----	11	19	Sd	Pl	C	6	T	-----do-----	2D1
2F1	E. Schmidt	Layne-Northern Co., Inc.	5-28-54	755	Dr	12	24	-----do-----	11	19	Sd	Pl	C	6	T	-----do-----	2F1
2G1	H. Etchelberg	-----do-----	5-28-54	826	Dr	52	24	-----do-----	11	19	Sd	Pl	C	6	T	-----do-----	2G1
3A1	Indiana Toll Road Commission	Westville Well Co.	5-28-54	804	Dr	68	24	-----do-----	11	19	Sd	Pl	C	6	T	-----do-----	3A1
3A2	-----do-----	-----do-----	5-28-54	812	Dr	52	24	-----do-----	11	19	Sd	Pl	C	6	T	-----do-----	3A2
3A3	-----do-----	-----do-----	5-28-54	812	Dr	52	24	-----do-----	11	19	Sd	Pl	C	6	T	-----do-----	3A3
3A4	-----do-----	-----do-----	5-28-54	812	Dr	52	24	-----do-----	11	19	Sd	Pl	C	6	T	-----do-----	3A4
3M1	-----do-----	-----do-----	5-28-54	812	Dr	52	24	-----do-----	11	19	Sd	Pl	C	6	T	-----do-----	3M1
3M2	-----do-----	-----do-----	5-28-54	812	Dr	52	24	-----do-----	11	19	Sd	Pl	C	6	T	-----do-----	3M2
5F1	S. Stoboda	Lakeland Well Drillers	5-28-54	812	Dr	52	24	-----do-----	11	19	Sd	Pl	C	6	T	-----do-----	5F1
5J1	Indiana Toll Road Commission	Layne-Northern Co., Inc.	6-1-55	775	Dr	113	0	S: 10ft, 20ft, dia 5	55	54	Sd,G	Pl	C	2R	P	-----do-----	5J1
5J2	J. Muzas	-----do-----	1-3-50	780	J	94	2	S: 4ft, 60ft, dia 1	81	6	Sd,G	Pl	C	28	D	-----do-----	5J2
5K1	M. Jush	Westville Well Co.	7-3-50	750	J	87	2	S: 3ft, 60ft, dia 1	11	19	Sd,G	Pl	U	11	T	-----do-----	5K1
7C1	Indiana Toll Road Commission	Westville Engineering Co.	5-13-54	776	Dr	30	24	-----do-----	11	19	Sd,G	Pl	U	11	T	-----do-----	7C1
7G1	-----do-----	-----do-----	5-13-54	775	Dr	20	24	-----do-----	11	19	Sd	Pl	C	6	T	-----do-----	7G1
8A1	-----do-----	-----do-----	5-28-54	791	Dr	88	24	-----do-----	11	19	Sd	Pl	C	6	T	-----do-----	8A1
8A2	-----do-----	-----do-----	5-28-54	775	Dr	88	24	-----do-----	11	19	Sd	Pl	C	6	T	-----do-----	8A2
8A3	-----do-----	-----do-----	5-28-54	775	Dr	88	24	-----do-----	11	19	Sd	Pl	C	6	T	-----do-----	8A3
8A4	-----do-----	-----do-----	5-28-54	775	Dr	88	24	-----do-----	11	19	Sd	Pl	C	6	T	-----do-----	8A4
8A5	-----do-----	-----do-----	5-28-54	783	Dr	82	24	-----do-----	11	19	Sd	Pl	C	6	T	-----do-----	8A5
8A6	-----do-----	-----do-----	5-13-54	784	Dr	50	24	-----do-----	11	19	Sd,G	Pl	C	6	T	-----do-----	8A6

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

Well	Owner	Driller	Data completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone				Use	Type of pump and horsepower	Remarks
									Depth to top (feet)	Thickness (feet)	Character	Geologic age			
36/AW-8A7	Indiana Toll Road Commission	Westville Engineering Co.	5-20-54	770	D	52	2 1/2								See log well 8A10.
8A8	do	do	5-21-54	773	D	52	2 1/2								L.
8A9	do	do	5-20-54	776	B	52	2 1/2								See log well 8A8.
8A10	do	do	5-21-54	776	B	52	2 1/2								L.
8A11	Dr. Keating	Hunts Hoosier Hardware	6-10-58	770	J	40	2	S; 4ft, 80g, dia 1 1/2							See log well 8A14; Ca.
8A12	do	do	8-5-58	770	J	52	2	S; 5ft, 60g, dia 1 1/2							Ca, L.
8A13	do	do	8-5-58	700	J	55	2	S; 5ft, 60g, dia 1 1/2							Ca, L.
8A14	do	do	8-5-58	700	J	60	2	S; 4ft, 60g, dia 1 1/2							Ca, L.
8A15	do	do	0-25-56	750	J	45	2	S; 4ft							Ca, L.
8A16	Indiana Toll Road Commission	Westville Engineering Co.	5-23-54	714	B	82	2 1/2								L.
8C2	do	do	5-12-54	771	D	82	2 1/2								See log well 8C3.
8C3	do	do	5-19-54	769	D	70	2 1/2								L.
8C4	do	do	5-18-54	768	D	82	2 1/2								L.
8C5	do	do	5-15-54	765	B	92	2 1/2								L.
8C7	do	do	5-16-54	765	D	92	2 1/2								See log well 8D2.
8D1	do	do	5-20-54	722	B	32	2 1/2								L.
8D2	do	do	5-20-54	723	B	32	2 1/2								Ca, L.
8D3	do	do	About 1880	812	--	82	--								No water reported; L.
8D4	Mrs. Orfann	do	1880	813	D	32	2 1/2								L.
9C1	Indiana Toll Road Commission	Westville Engineering Co.	5-24-54	813	D	32	2 1/2								L.
9D1	do	do	5-21-54	795	B	40	2 1/2	S; 5ft, 60g, dia 1 1/2							L.
10B1	do	do	8-55	855	J	88	2	S; 3ft, 80g, dia 1 1/2							Ca, L.
10B2	H. Schmidt	do	8-55	855	J	88	2	S; 3ft, 80g, dia 1 1/2							Yield 13 gpm; Ca, L.
10C1	do	do	8-55	855	J	82	2	S; 3ft, 80g, dia 1 1/2							Well point driven inside 25-ft dug well.
10C2	H. Getshaw	do	8-55	855	J	89	2	S; 3ft, 80g, dia 1 1/2							Sand overlain by 80 ft red clay and gravel; Ca.
10C3	C. Vincent	do	8-55	855	J	89	2	S; 3ft, 80g, dia 1 1/2							L.
12D1	B. Anderson	Hunts Hoosier Hardware	2-56	837	J	62	2	S; 3ft, 60g, dia 1 1/2							Yield 50 gpm; sand and gravel from 0-52 ft.
12D2	C. Schlack	J. Dill	2-15-51	835	J	55	2	S; 3ft, 60g, dia 1 1/2							Yield 15 gpm; Ca, L.
12D3	C. Dhuwotter	do	4-37	835	J	78	2	S; 3ft, 60g, dia 1 1/2							Brown coarse sand from 0-05 ft; Ca.
12D4	do	do	4-37	835	J	78	2	S; 3ft, 60g, dia 1 1/2							Ca, L.
13K1	A. Harvold	do	8-25	825	Dh	51	1 1/2								Ca, L.
14A1	C. Walton	do	8-30	830	J	55	2								Yield 7 gpm; Ca.
14K1	W. Payne	do	1-12-55	827	J	67	2								Ca, L.
14M1	W. D. Clements	do	8-50	827	J	65	2								Ca, L.
14N2	C. Stephens	J. Dill	6-50	827	J	65	2								Ca, L.
14P1	K. Olson	Hunts Hoosier Hardware	5-2-55	827	J	56	2	S; 3ft, 60g, dia 1 1/2							Ca, L.
15P1	K. Redder	do	4-25-57	812	J	48	2	S; 4ft, 60g, dia 1 1/2							Sand overlain by 55 ft red clay with shale fragments; Ca.
19E1	M. Switt	Lakeland Well Drillers	4-17-57	792	J	165	2								Ca, L.
21D1	R. Penton	Mr. Barnathouse	10-52	830	J	63	2	S; 4ft, 80g, dia 1 1/2							Ca, L.
23D1	J. Pfingsthaup	do	8-27	827	J	42	2	S							Yield 50 gpm; sand and gravel from 0-52 ft.
23L1	E. J. Dehart	do	7-90	790	J	40	2	S; 4ft, 60g, dia 1 1/2							Yield 15 gpm; Ca, L.
28N1	Town of Westville	B. J. Moore and Son	8-65	805	Dr	108	10	S; 4ft, 60g, dia 2 1/2							Ca, L.
28N2	K. Keover	Slavor Drilling Co.	6-9-51	802	Dr	117	4	S; 8ft, 60g, dia 2 1/2							Ca, L.
28N3	do	do	8-62	802	J	67	2	S							Ca, L.
20D1	A. Conter	Westville Well Co.	7-24-59	795	J	64	2	S; 3ft, 60g, dia 1 1/2							Ca, L.
22F1	Beatty Memorial Hospital	Layne-Northrup Co. Inc.	7-29-48	790	Dr	85	30	Gp; S; 20ft, 55gal, dia 12							Ca, L.
22F2	do	do	8-23-48	790	Dr	52	6	S; 10ft, dia 4							Ca, L.
32L1	do	do	9-22-48	790	Dr	84	30	Gp; S; 20ft, 55gal, dia 12							Ca, L.
37/1A-5C1	C. Bartusch	Hunts Hoosier Hardware	3-1-56	840	J	93	2	S; 4ft, 60g, dia 1 1/2							Ca, L.
5H1	H. Venburgh	do	7-14-56	850	J	95	2	S; 5ft, 60g, dia 1 1/2							Ca, L.
7R1	D. Williamson	do	3-28-57	830	J	85	2	S; 4ft, 60g, dia 1 1/2							Ca, L.

37/W- 8E1	D. Pflieger and R. Knerr	Hunts Reosoler Hardware	9- J-54	J	100	2	2	5; 4 1/2 ft., 60g	57	43	Sd, G	PI	U	57	D	J1	Yield 15 gpm; sand and gravel from 0-100 ft.; Ca. L.
8M1	W. Harrib	-----do-----	0-18-36	820	J	68	2	S; 5ft., 60g, dia 1	49	10	G, Sd	PI	U	49	D	J	Yield 13 gpm; Ca. L.
9L1	H. C. Hunt	-----do-----	1955	790	J	90	2	S; 4 1/2 ft., 60g	36	54	Sd	PI	U	36	D	J1/2	Yield 15 gpm; Ca. L.
9L2	C. A. L. Moore	-----do-----	6-53	700	J	53	2	S; 60g	38	15	Sd	PI	U	38	D	J1/2	Brown sand with little gravel from 0-50 ft.
10P1	E. Turak	-----do-----	7-18-59	820	J	94	2	S; 4ft., 60g, dia 1	80	14	Sd, G	PI	U	80	D, S	J1/2	Ca. L.
17K1	H. Stonish and E.	-----do-----	2-12-37	815	J	82	2	S; 4 1/2 ft., 60g, dia 1	75	7	Sd	PI	C	43	D	J1/2	Yield 13 gpm; L.
21Q1	H. Hofstetter	H. Hope	11-10-51	780	J	71	2	S; 60g	75	7	Sd	PI	U	75	N	-----	-----
20D1	D. Turak	Hunts Hoosler Hardware	See Log	770	J	58	2	S; 4ft., 60g, dia 1	32	26	Sd	PI	U	32	D	-----	Ca. L.
20E1	L. Wilson	-----do-----	1958	770	J	58	2	S; 4ft., 60g, dia 1	32	26	Sd	PI	U	32	D	-----	Ca. L.
20F1	Mr. Tuszynski	Sliver Drilling Co.	4-50	805	J	84	1 1/2	S; 4ft., 60g, dia 1 1/2	65	19	G, S	PI	U	65	D, S	J1	Yield 13 gpm; Ca. L.
31C1	H. Dawson	Hunts Hoosler Hardware	9-10-37	787	J	04	2	S; 3 1/2 ft., 60g, dia 1	49	15	Sd	PI	U	49	D	-----	Do.
31L1	H. Loter	-----do-----	4-9-57	775	J	58	2	S; 4ft., 60g, dia 1	43	15	Sd	PI	U	43	P	T20	Yield 10 gpm; L. 170 gpm; Do. 44 ft pumping 19 ft 2 1/2 in. screen, upper 19 ft 2 1/2 in. screen, upper 10 ft; see log well 1B2.
37/2K- 1D1	Notre Dame University	Indiana-Michigan Water Development Co.	9-22-33	810	Dr	170	8	S; 2 1/2 ft., dia 7	---	---	Sd, G	PI	U	---	---	---	Yield 65 gpm; screen, upper 10 ft; Ca. L. lower 10 ft
1D2	-----do-----	-----do-----	6-11-45	810	Dr	171	8	S; 20ft., dia 7	---	---	Sd	PI	U	---	---	T	Yield 15 gpm; Ca. L.
2A1	R. Krozinski	Hunts Hoosler Hardware	4-57	810	J	58	2	S; 4ft., 60g, dia 1	40	18	Sd, G	PI	U	40	S	J1/2	No water reported; see log
2A1	R. Whatabrook	-----do-----	2-55	815	J	64	2	S; 3ft., 60g	53	11	Sd, G	PI	U	53	D	J1/2	No water reported; see log
3D1	Indiana Toll Road Commission	KOP Foundation Test Borings, Inc.	1954	852	D	30	---	---	---	---	---	---	---	---	---	---	Well 302
3D2	-----do-----	-----do-----	1954	857	B	41	---	---	---	---	---	---	---	---	---	---	No water reported; L.
4A1	-----do-----	-----do-----	1954	858	B	40	---	---	---	---	---	---	---	---	---	---	No water reported; see log well 4M1.
4A2	-----do-----	-----do-----	1954	858	B	46	---	---	---	---	---	---	---	---	---	---	No water reported; see log well 4M1.
4A3	-----do-----	-----do-----	1954	858	B	55	---	---	---	---	---	---	---	---	---	---	No water reported; L.
4A4	-----do-----	-----do-----	1954	857	D	48	---	---	---	---	---	---	---	---	---	---	No water reported; see log
4A5	-----do-----	-----do-----	1954	854	B	35	---	---	---	---	---	---	---	---	---	---	Well 4M1. Sudrock at 283 ft; 276 ft shale underlain by 234 ft limestone.
4E1	J. Charro	-----do-----	10-22-48	864	Dr	785	8-6 1/2	---	---	---	---	---	---	---	---	---	Medium sand overlain by red and blue clay.
4N1	E. Pagle	H. Hope	10-29-51	855	J	134	2	S; dia 1	---	---	Sd	PI	U	---	---	J1/2	L.
4N2	Indiana Toll Road Commission	KOP Foundation Test Borings, Inc.	4-23-54	861	B	45	---	---	11	34	Sd	PI	U	---	---	---	No water reported; see log well 4N2.
4N3	-----do-----	-----do-----	4-54	860	D	45	---	---	---	---	---	---	---	---	---	---	No water reported; see log
5C1	J. Wollinski	Hunts Hoosler Hardware	8-26-59	890	J	180	2	S; 5ft., 60g, dia 1	106	14	Sd	PI	U	166	D	L	Ca. L. with few gravel overlain by 5 ft clay.
5D1	A. Jankel	-----do-----	Summer 1946	900	J	155	2	S; 60g	143	12	Sd	PI	U	143	D	---	Yield 12 gpm; L.
5L1	E. Sullivan	-----do-----	4-17-57	860	J	119	2	S; 4ft., 60g, dia 1	103	16	Sd	PI	U	103	D	J	Yield 12 gpm; sand from 0-131 ft.
5P1	J. Warfield	Mr. Barnhouse	-----do-----	840	J	129	2	S; 4ft., 60g	118	13	Sd	PI	U	75	D	---	No water reported; see log well 5N2.
5R1	Indiana Toll Road Commission	KOP Foundation Test Borings, Inc.	5-21-54	858	B	40	---	---	---	---	---	---	---	---	---	---	No water reported; see log well 5N2.
5R2	-----do-----	-----do-----	5-22-54	852	D	40	---	---	---	---	---	---	---	---	---	---	No water reported; see log well 5N2.
5R3	-----do-----	-----do-----	5-20-54	850	D	35	---	---	---	---	---	---	---	---	---	---	No water reported; see log well 5N2.
5R4	-----do-----	-----do-----	1954	861	D	45	---	---	---	---	---	---	---	---	---	---	Do.
5R5	-----do-----	-----do-----	1954	861	B	39	---	---	---	---	---	---	---	---	---	---	No water reported; see log well 5N2.
5R6	-----do-----	-----do-----	1954	860	B	40	---	---	---	---	---	---	---	---	---	---	No water reported; see log well 5N2.
5W7	-----do-----	-----do-----	1954	880	B	46	---	---	---	---	---	---	---	---	---	---	See log well 5N7
7A1	H. Pfitzer	H. B. Phillips	1-7-43	814	Dr	1,528	---	---	---	---	---	---	---	---	---	---	No water reported; see log well 5N7.
7E1	Indiana Toll Road Commission	KOP Foundation Test Borings, Inc.	4-21-54	829	B	40	---	---	7	30	Sd, G	PI	U	7	T	---	No water reported; L.
7E2	-----do-----	-----do-----	4-21-54	828	B	38	---	---	---	---	---	---	---	---	---	---	Well 5N7 reported; L.
7E3	-----do-----	-----do-----	4-20-54	830	B	52	---	---	---	---	---	---	---	---	---	---	Oil test; sudrock at 200 ft. See log well 7E3.
7H1	-----do-----	Indiana-Michigan Water Development Co.	4-18-55	790	Dr	109	8	S; 15ft., 12 1/2	24	86	Sd	PI	U	24	P	TS	Do.
7H2	-----do-----	KOP Foundation Test Borings, Inc.	4-20-54	787	D	44	---	---	14	30	Sd, G	PI	U	14	T	---	Do.
7H3	-----do-----	-----do-----	4-21-54	787	B	44	---	---	14	30	Sd, G	PI	U	14	T	---	See log well 7H2.
7H4	-----do-----	-----do-----	4-24-54	787	B	43	---	---	14	20	Sd, G	PI	U	14	T	---	Do.
7H5	-----do-----	-----do-----	4-28-54	787	B	48	---	---	14	32	Sd, G	PI	U	14	T	---	Do.
7H6	-----do-----	-----do-----	4-18-54	787	B	40	---	---	15	25	Sd, G	PI	U	15	T	---	Do.
7H7	-----do-----	-----do-----	4-20-54	787	B	42	---	---	14	28	Sd, G	PI	U	14	T	---	Do.
7P1	D. Proud	Hunts Hoosler Hardware	8-12-59	860	J	104	2	S; 4ft., 60g, dia 1	90	14	Sd	PI	U	90	T	---	L.
8B1	Indiana Toll Road Commission	KOP Foundation Test Borings, Inc.	5-22-54	842	B	37	---	---	---	---	---	---	---	---	---	---	No water reported; L.
8D2	-----do-----	-----do-----	5-10-54	845	B	35	---	---	---	---	---	---	---	---	---	---	No water reported; see log well 8B1.

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

Well	Owner	Driller	Date Completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone				Use	Type of pump and horsepower	Remarks
									Depth to top (feet)	Thickness (feet)	Character	Geologic age			
37/2W-883	Indiana Toll Road Commission	KOF Foundation Test Borings, Inc.	5-21-54	852	D	40									No water reported; see log well 881.
884	-----do-----	-----do-----	6-3-54	837	B	60									No water reported; L.
885	-----do-----	-----do-----	5-29-54	838	D	80									No water reported; see log well 884.
886	-----do-----	-----do-----	5-29-54	838	D	40									Do.
887	-----do-----	-----do-----	6-2-54	839	D	45									Do.
888	-----do-----	-----do-----	0-1-54	840	B	40									Do.
889	-----do-----	-----do-----	5-29-54	839	B	48									Do.
890	-----do-----	-----do-----	5-28-54	840	D	46									Do.
891	-----do-----	-----do-----	0-2-54	840	D	60									Do.
891	H. Cole	J. Bill	1-57	800	J	48	2	S; 3ft, 60g							Sand overlain by 43 ft red clay and gravel; Ca.
9E1	J. J. Kleen	Runts Hoosier Hardware	7-10-54	850	J	80	2	S; 4 1/2 ft, 60g							Yield 15 gpm; sand and gravel overlain by 10 ft clay.
9L1	W. W. Griffith	LaPole Well Drillers	11-30-56	815	J	150	2	S; 5 1/2 ft, 60g, dia 1							Ca.
10E1	C. Young	Runts Hoosier Hardware	7-80	825	J	80	4	S; 8ft, 10ml							Yield 60 gpm; sand and gravel overlain by 72 ft sand.
10L1	W. Kechin	-----do-----	3-3-56	835	J	65	2	S; 3 1/2 ft, 60g, dia 1							Yield 10 gpm; Ca. L.
11B1	Trustees, Kankakee Township	-----do-----	Summer 1952	810	J	70	4	-----do-----							Yield 51 gpm; sand and gravel overlain by 90 ft brown sand and gravel.
11E1	M. Warner	-----do-----	Summer 1945	815	J	50	2	S; 60g							Brown coarse sand and gravel from 0-50 ft.
11E2	Mr. Mansfield	-----do-----	10-6-57	825	J	67	2	S; 3 1/2 ft, 60g, dia 1							Yield 13 gpm; L.
11F1	R. Massey	-----do-----	7-11	820	J	55	2	-----do-----							Yield 13 gpm; sand and gravel from 0-55 ft; Ca.
11F2	G. Williams	-----do-----	11-23-55	820	J	60	2	-----do-----							Yield 13 gpm; L.
11G1	R. Stevens	-----do-----	7-51	810	J	67	2	S; 60g							Brown coarse sand and gravel 0-57 ft.
11J1	South Bond Lath Co.	Layno-Northon Co., Inc.	3-5-57	810	Dr	75	8	S; 10ft, 15ml, dia 7 1/2							Dr 24 ft after 24 hr pumping 150 gpm; L.
11J2	-----do-----	-----do-----	3-15-57	810	Dr	75	8	-----do-----							Dr 30 ft after 24 hr pumping 150 gpm; L.
11K1	Seneca Co.	Runts Hoosier Hardware	4-16-58	810	J	53	2	S; 4 1/2 ft, 60g, dia 1							L.
11K1	E. Smith	-----do-----	4-57	820	J	95	4	S; 5ft							Ca. L.
12K1	Indiana State Highway Department	-----do-----	5-9-58	810	J	60	4	S							Ca. L.
15A1	L. Stonor	-----do-----	9-58	810	J	02	2	S; 3 1/2 ft, 60g, dia 1							Yield 13 gpm; see log well 15B1.
15D1	J. Boers	-----do-----	3-13-59	815	J	58	2	S; 4ft, 60g, dia 1							L.
17K1	L. Denton	-----do-----	Summer 1952	790	J	10	4	S; 8ft, 60g							White sand and blue gravel overlain by 30 ft clay and sand.
18H1	X. Fisher	Godfrey Drilling Co.	10-6-46	815	Dr	450	8-8	-----do-----							Oil test; bedrock at 240 ft; L.
20L1	-----do-----	-----do-----	4-12-47	820	--	503	8 1/2-6 1/2	-----do-----							Oil test; bedrock at 231 ft; L.
20P1	Mrs. Garrison	Runts Hoosier Hardware	11-28-56	820	J	57	2	S; 3 1/2 ft, 80g, dia 1							Yield 13 gpm; Ca. L.
20Q1	R. Bleh	Westville Well Co.	9-19-56	815	J	61	2	S; 4 1/2 ft							Dr 13 ft after 3 hr pumping 65 gpm; screen, upper 10 ft 15 ft, lower 10 ft 10 ft; Ca. L.
20R1	N. Pletz	J. P. Miller Artesian Well Co.	1947	815	Dr	124	0	S; 20ft							Dr 13 ft after 3 hr pumping 65 gpm; screen, upper 10 ft 15 ft, lower 10 ft 10 ft; Ca. L.
21H1	G. Sherwood	Runts Hoosier Hardware	10-12-54	765	J	34	2	S; 60g							Yield 15 gpm; brown sand overlain by 6 ft black dirt.
25A1	Mr. Cramling	M. Rope	5-6-52	800	J	63	2	S; 80g							Yield 18 gpm; Ca. L.
26D1	Dr. Schell	Runts Hoosier Hardware	4-17-55	770	J	30	2	S; 4 1/2 ft, 60g, dia 1 1/2							Yield 18 gpm; Ca. L.
26D2	-----do-----	-----do-----	11-7-56	770	J	42	3	S; 6ft, dia 1 1/2							Yield 18 gpm; Ca. L.

Well No.	Owner	Company	Date	Dr	40	6	6	4	30	Sd	PI	U	4	T	Notes
28K1	R. C. Ritter Co.	Indiana-Michigan Water Development Co.	9-11-35	748	Dr	1941	705	Dr	347						Sand overlain by 5 ft muck.
28K2	City of La Porte			748	Du		25			Sd, G	PI	U	13	O, P	Observation well La Porte 1. water level measured 11.90 ft below lsd, 7-4-42. Oil test; bedrock at 210 ft; 232 ft shale overlain by 5 ft dolomite.
28K1	Mr. Ruseley	Shell Oil Co.													
28C1	G. Jolley	Hunts Hoosier Hardware	5-14-38	800	J		33			G, Sd	PI	U	23	Ir	Yield 13 gpm; L.
28D1	C. Hunt	Striver Drilling Co.	7-30	810	J		77			Sd, G	PI	U	36	P	Sand and gravel from 0-77 ft.
28E1	J. Horvath	Hunts Hoosier Hardware	11-54	805	J		46			Sd, G	PI	U	25	D	Yield 15 gpm; L.
28E2	A. Sincay	do	4-37	805	J		51			Sd, G	PI	U	30	D	L.
28F1	S. J. Halter	do	9-20-35	800	J		43			Sd, G	PI	U	32	L	Yield 13 gpm; Ca, L.
30H1	Square Deal	do	3-5-38	810	J		49			Sd	PI	U	30	P	Yield 13 gpm; Ca, L.
30K1	R. E. Groen	Electric	9-12-54	810	J		72			Sd, G	PI	C	25	D	Yield 13 gpm; L.
30L1	City of La Porte	Layne-Northern Co., Inc.	2-25-57	800	Dr		174			Sd	PI	C		T	L.
30L2	do	do	6-5-57	800	Dr		150			Sd	PI	C	12	P	Dr 42 ft after 1 hr pumping 1,000 gpm; L.
30L3	do	do	7-23-46	800	Dr		113			Sd	PI	C	12	P	Dr 47 ft pumping 1,100 gpm; L.
30L4	do	do	3-24-43	800	Dr		111			Sd, G	PI	C	12	T	See log well 30L3.
31M1	D. Woodr	J. Dill	4-25	803	J		40			Sd	PI	C	25	D	Yield 12 gpm; sand overlain by 33 ft red clay and gravel; Ca.
32E1	Baker Bros.	Shell Oil Co.	1941	784	Dr		380								Oil test; bedrock at 200 ft; 172 ft shale overlain by 8 ft dolomite.
32R1	F. Lonick	Hunts Hoosier Hardware	9-36	790	J		35			Sd	PI	U	22	S	Yield 13 gpm; brown sand from 0-35 ft.
33P1	L. Lockwood	Striver Drilling Co.	5-2-47	810	J		76			Sd, G	PI	U	60		L.
34Q1	K. Landwer	Hunts Hoosier Hardware	3-8-57	820	J		95			Sd, G	PI	U	33	D	J1
35J1	F. Langs	do		770	J		42			O, Sd	PI	U	32	S	J3/4
37/38-2M1	T. Lepca	H. Hopp	11-2-51	770	J		125			Sd	PI	C	108	D	J3/4
37/38-2M2	Mr. Lewandowski	Hunts Hoosier Hardware	11-19-55	800	J		170			Sd	PI	C	108	D	J1
38K1	W. Schwank	do	Fall 1953	785	J		82			Sd	PI	U	70	D	J1/3
3K2	O. Troth	do	6-27-57	785	J		75			Sd	PI	C	12	N	White sand overlain by 69 ft clay; water level measured 15.30 below lsd, 12-10-50.
3K3	F. Schultz	do	5-15-56	770	J		33			Sd	PI	C	6	D	Ca, L.
4F1	Friendly Acres	do	10-40	705	J		38			G, Sd	PI	C	47	D, P	Flowed 80 gpm; Ca.
4F2	O. Smith	do		690	J		40			Sd, G	PI	C		D, S	Discharge measured 12 gpm, 3-28-57; Ca.
4M1	T. Pahl	do		705						Sd	PI	U		D	Spring issuing from sand; discharge loss than 1 gpm; Ca.
5D1	C. Barron	Hunts Hoosier Hardware	Summer 1952	655	J		30			Sd, G	PI	U	10	D	J3/4
5E1	Great Lakes Duck Farm	E. Hutchingson		681	Dr		203			Sd, G	PI	C	+35	I, S	Flowed 270 gpm; Ca.
5G1	J. J. Mark	do	1932	663	J		175			G, Sd	PI	C	+30	D, S	Discharge measured 60 gpm, 3-28-57; finished with slotted pipe; Ca.
5H1	V. Dull	Hunts Hoosier Hardware	5-1-56	670	J		56			Sd	PI	C		N	Flowed 12 gpm; L.
5P1	Mr. Bosserman	do		655						Sd	PI	U		N	Spring; discharge measured 21 gpm, 3-28-57; Ca.
5P2	do	do		655						Sd	PI	U		N	Spring; discharge measured 3 gpm, 3-28-57; Ca.
6C1	Indiana State Highway Department	Testing Service Corp.		633	B		46			Sd, G	PI	C		T	See log well 6C3.
6C2	do	do		632	B		52			Sd, G	PI	U		T	Do.
6C3	do	do		634	B		52			Sd, G	PI	U		T	L, S.
6C5	do	do		633	D		52			Sd, G	PI	U		T	See log well 6C3.
6E1	do	do		642	D		56			Sd, G	PI	U		T	L.
6E2	do	do		642	D		56			Sd, G	PI	U		T	L.
6E3	do	do		643	D		54			Sd, G	PI	U		T	L.
6E4	do	do		643	E		54			G	PI	U		T	L.
6P1	Wondar Well Pans	do	1936	655	Dr		52			Sd, G	PI	C	50	N	Discharge measured 60 gpm, 3-21-57; originally bored on 2-inch well; sand and gravel overlain by 50 ft clay and hardpan; Ca.

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

Well	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone				Water level (feet)	Use	Type of pump and horsepower	Remarks
									Depth to top (feet)	Thickness (feet)	Character	Geologic age				
37/JW-7D1	F. DeWolf	A. Good		665	J	72	2					70				
8F1	L. Scott	Shell Oil Co.	1941	755	Dr	415										
8J1	F. Mazurekally	Lakeland Well Drillers	8-14-56	770	J	130		3 S; 7ft. 80g. dia 2								
8K1	N. Joesch			785	J	98		2 S; 2ft. 60g. dia 1								
8L1	S. Armstrong		10-23-54	800	J	110		2 S; 4ft. 60g. dia 1								
8M1	R. Whitbrook	Hunts Hoosier Hardware	3-7-58	800	J	90		2 S; 4ft. 60g. dia 1								
10H1	Dr. Kshiang		1-17-57	855	J	102		2								
11A1	L. Rozlowski															
11H1	Mr. Fritzen	Shell Oil Co.	1941	774	B	438										
11J1	Indiana Toll Road Commission	KOF Foundation Test Borings, Inc.	5-18-54	780	B	38						14				
11K1				780	B	25						7				
11L1				792	B	45						20				
11M1				794	B	80						17				
11N1				788	B	45						17				
11O1				793	B	50						2				
11P1				797	B	41						2				
11Q1				778	B	35						42				
11R1				858	B	35						89				
11S1				841	B	35						21				
11T1				845	Dr	186		6 S; 20ft. 10M1				7				
11U1				848	B	50						7				
11V1				847	D	35						20				
11W1				846	B	35						17				
11X1				848	B	40						17				
11Y1				845	B	40						17				
11Z1				882	D	50						17				
12A1	R. Myrshull	Hunts Hoosier Hardware	8-25-54	775	J	29		5				9				
12B1	Indiana Toll Road Commission	KOF Foundation Test Borings, Inc.	6-10-54	772	D	25						9				
12C1				848	D	20						9				
12D1				838	B	50						9				
12E1				834	B	45						9				
12F1				839	B	34						9				
12G1				836	B	30						9				
12H1				830	B	35						9				
12I1				789	B	45						9				
12J1				793	D	42						9				
12K1				795	D	50						9				
12L1				845	J	74		2 S; 4ft. 60g. dia 1				9				
12M1				875	B	45						9				
12N1				874	D	35						9				
12O1				874	D	35						9				

37/3W-1453

Well No.	Owner	Location	Depth	Drill Date	Drill Bit	Drill Rate	Drill Time	Drill Cost	Drill Method	Drill Notes	Drill Type	Drill Status	Drill Remarks
1451	Indiana Toll Road Commission	S. T. Condozo	72	4-13-54	871 B	40	86	14	U	Yield 15 gpm; Ca, L.	L		
15A1	Indiana Toll Road Commission	KOP Foundation Test	32	9-17-54	845 J	40	86	14	U	Yield 15 gpm; Ca, L.	L		
15A2	Indiana Toll Road Commission	Hunts Hoosier Hardware	12	4-17-54	875 D	50	50	22	U	No water reported; see log well 15A4.			
15A3	Indiana Toll Road Commission	Hunts Hoosier Hardware	21	4-14-54	872 D	35	40	21	C	No water reported; see log well 15F6.			
15A4	Indiana Toll Road Commission	Hunts Hoosier Hardware	23	4-14-54	869 D	40	40	21	C	No water reported; see log well 15F6.			
15A5	Indiana Toll Road Commission	Hunts Hoosier Hardware	17	4-13-54	875 D	50	50	22	U	No water reported; see log well 15F6.			
15F1	Indiana Toll Road Commission	Hunts Hoosier Hardware	50	5-29-54	857 B	50	50	22	U	No water reported; see log well 15F6.			
15F2	Indiana Toll Road Commission	Hunts Hoosier Hardware	40	5-26-54	845 B	40	40	22	U	No water reported; see log well 15F6.			
15F3	Indiana Toll Road Commission	Hunts Hoosier Hardware	70	5-28-54	802 B	40	40	22	U	No water reported; see log well 15F6.			
15F4	Indiana Toll Road Commission	Hunts Hoosier Hardware	41	5-27-54	847 D	41	41	22	U	No water reported; see log well 15F6.			
15F5	Indiana Toll Road Commission	Hunts Hoosier Hardware	40	5-25-54	832 D	40	40	22	U	No water reported; see log well 15F6.			
15F6	Indiana Toll Road Commission	Hunts Hoosier Hardware	60	5-27-54	834 B	40	40	22	U	No water reported; see log well 15F6.			
15F7	Indiana Toll Road Commission	Hunts Hoosier Hardware	40	5-26-54	846 B	40	40	22	U	No water reported; see log well 15F6.			
15F8	Indiana Toll Road Commission	Hunts Hoosier Hardware	71	5-28-54	850 D	40	40	22	U	No water reported; see log well 15F6.			
15F9	Indiana Toll Road Commission	Hunts Hoosier Hardware	40	5-28-54	846 D	40	40	22	U	No water reported; see log well 15F6.			
15F10	Indiana Toll Road Commission	Hunts Hoosier Hardware	41	5-28-54	856 B	41	41	22	U	No water reported; see log well 15F6.			
15J1	Indiana Toll Road Commission	Shell Oil Co.	184	3-22-57	885 J	184	184	101	D,S	Oil test; bedrock at 351 ft; 131 ft shale underlain by 5 ft dolomite.	J1		
16D1	Indiana Toll Road Commission	Mr. Noah	182	7-12-54	920 J	188	188	8	C	Yield 5 gpm; Ca, L.	J1		
16E1	Indiana Toll Road Commission	A. Schulz	130	7-12-54	920 J	160	160	30	U	Oil test; bedrock at 351 ft; 131 ft shale underlain by 5 ft dolomite.	J1		
16F1	Indiana Toll Road Commission	J. Roziol	130	8-10-53	920 J	154	154	24	U	Yield 10 gpm; L.	J1		
16K1	Indiana Toll Road Commission	La Porte Ponting Co.	122	7-23-54	900 J	138	138	16	U	Yield 15 gpm; white sand and gravel overlain by 36 ft clay.	J1		
16K2	Indiana Toll Road Commission	Mr. Torrey	145	9-54	910 J	145	145	138	D	Yield 8 gpm; L.	L		
16K3	Indiana Toll Road Commission	American Telephone and Telegraph Co.	155	12-31-55	920 J	155	155	110	---	See log well 16K10.	---		
16K4	Indiana Toll Road Commission	Indiana Toll Road Commission	45	6- 8-54	890 D	45	45	---	---	No water reported; see log well 16K10.	---		
16K5	Indiana Toll Road Commission	Indiana Toll Road Commission	45	6- 4-54	887 B	45	45	---	---	No water reported; see log well 16K10.	---		
16K6	Indiana Toll Road Commission	Indiana Toll Road Commission	85	6- 5-54	890 D	85	85	34	J1	No water reported; L.	J1		
16K7	Indiana Toll Road Commission	Indiana Toll Road Commission	52	6- 4-54	884 B	52	52	---	---	See log well 16K10.	---		
16K8	Indiana Toll Road Commission	Indiana Toll Road Commission	45	6- 8-54	886 B	45	45	---	---	No water reported; L.	---		
16K9	Indiana Toll Road Commission	Indiana Toll Road Commission	40	6- 8-54	884 B	40	40	---	---	No water reported; L.	---		
16K10	Indiana Toll Road Commission	Indiana Toll Road Commission	50	6- 4-54	883 B	50	50	---	---	See log well 16K10.	---		
16K11	Indiana Toll Road Commission	Indiana Toll Road Commission	38	6- 7-54	882 B	38	38	---	---	No water reported; see log well 16K7.	---		
16K12	Indiana Toll Road Commission	Indiana Toll Road Commission	50	6- 7-54	881 B	50	50	---	---	No water reported; see log well 16K7.	---		
16K13	Indiana Toll Road Commission	Indiana Toll Road Commission	45	6- 8-54	879 B	45	45	---	---	No water reported; see log well 16K10.	---		
16L1	Indiana Toll Road Commission	P. Scheffeld	140	8- 8-54	920 J	145	145	10	C	Yield 13 gpm; L.	D		
16C1	Indiana Toll Road Commission	C. Bassett	68	8-53	740 J	78	78	6	C	For pond; sand overlain by 68 ft blue clay; Ca.	---		
16D1	Indiana Toll Road Commission	W. Kessler	15	10-55	743 J	40	40	25	U	Yield 6 gpm; sand from 0-40 ft.	L1/4		
16E1	Indiana Toll Road Commission	A. Masolba	30	7- 1-53	745 J	80	80	50	U	Yield 10 gpm; fine sand overlain by 20 ft red clay.	L		
16G1	Indiana Toll Road Commission	V. Jangaruk	70	5-20-58	775 J	82	82	12	C	See log well 16K10.	---		
16H1	Indiana Toll Road Commission	R. W. Scott	---	11-14-51	800 J	70	70	---	---	No water reported; L.	---		
16C1	Indiana Toll Road Commission	F. Paul	---	1952	815 J	165	165	---	---	No water reported; see log well 16K7.	---		
16J1	Indiana Toll Road Commission	Sumalt Prison Farm	221	3-25-38	910 Dr	267	267	43	C	See log well 16K10.	T7-1/2		
16J2	Indiana Toll Road Commission	Indiana-Michigan Water Development Co.	232	9-20-41	910 Dr	275	275	43	C	See log well 16K10.	T7-1/2		
16J3	Indiana Toll Road Commission	Indiana-Michigan Water Development Co.	140	4- 7-50	910 Dr	177	177	37	C	See log well 16K10.	T10		
16J4	Indiana Toll Road Commission	Indiana-Michigan Water Development Co.	---	9-20-41	910 Dr	---	---	---	---	No water reported; see log well 16K7.	---		
16J5	Indiana Toll Road Commission	Layne-Northern Co., Inc.	185	9-20-55	905 Dr	200	200	5	C	See log well 16K10.	J1		
16K1	Indiana Toll Road Commission	T. Nodza	---	9-55	---	190	190	---	---	No water reported; see log well 16K7.	---		
20F1	Indiana Toll Road Commission	L. W. Mopolio	---	---	---	200	200	---	---	No water reported; see log well 16K7.	---		
20F2	Indiana Toll Road Commission	Shell Oil Co.	---	1941	871 Dr	400	400	---	---	No water reported; see log well 16K7.	---		
20H1	Indiana Toll Road Commission	Montville Engineering Co.	9	4-28-54	861 D	40	40	---	---	No water reported; see log well 16K7.	T		

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

Well	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone			Water level (feet)	Use	Type of pump and horsepower	Remarks
									Thickness (feet)	Character	Geologic age				
2013	Indiana Toll Road Commission	Westville Engineering Co.	4-29-54	858	D	41			Sd,G	P1	P1	18	T		L.
2014	do	do	4-29-54	861	B	44			Sd	P1	P1	25	T		L.
2015	do	do	4-29-54	860	B	40			Sd	P1	P1	19	T		L.
2016	do	do	4-29-54	860	B	26			Sd	P1	P1	14	T		L.
2017	do	do	4-29-54	868	B	40			Sd,G	P1	P1	18	T		L.
2161	R. Fredrick	do		868	B	75		2 S; 3ft, 60g	Sd	P1	P1	57	D		Yield 6 gpm.
2162	W. Sowers	D. Lantz		850	J	74		2 S; 3 1/2 ft, 60g	Sd	P1	P1	49	D		
2111	W. H. Johnson	Westville Well Co.	1-9-56	860	J	95		2 S; 4 1/2 ft, 60g, dia 1	Sd,G	P1	P1	54			L.
2112	H. B. Richardson	Hunts Hoosier Hardware	1-9-50	860	J	73		2 S; 5ft, 60g, dia 1	Sd,G	P1	P1	54			Yield 13 gpm; white sand and gravel overlain by 60 ft gravelly clay.
2111	R. O. Noell	do	4-15-55	860	J	76		2 S; 3 1/2 ft, 60g, dia 1	Sd,G	P1	P1	47	D		Yield 13 gpm; L. Oil test; bedrock at 280 ft; 159 ft shale overlain by 14 ft dolomite.
2111	R. Danalson	do	11-4-57	845	J	78		2 S; 4ft, 60g, dia 1	Sd	P1	P1	54	D		Yield 13 gpm; white sand and gravel overlain by 60 ft gravelly clay.
2281	F. Scott	Shell Oil Co.	1941	830	Dr	453									Oil test; bedrock at 280 ft; 159 ft shale overlain by 14 ft dolomite.
2281	B. Diehl	Westville Well Co.	7-27-56	810	Dr	100		2 S; 4ft	Sd	P1	P1	56	P		Oil test; bedrock at 280 ft; 159 ft shale overlain by 14 ft dolomite.
2281	Fraternai Order of Elks	Layne-Northaven Co., Inc.	5-19-43	850	Dr	92		12 S; 8ft	Sd	P1	P1	38	P		Oil test; bedrock at 280 ft; 159 ft shale overlain by 14 ft dolomite.
2281	D. Clondene	do	10-27-54	845	J	117		2 S; 3ft, 60g, dia 1	Sd	P1	P1	75	D,S		Yield 13 gpm; L.
2282	C. Ellis	do	10-27-54	845	J	70		2 S; 4ft, 60g, dia 1	Sd	P1	P1	30	D		Yield 13 gpm; L.
2283	R. Chipman	Hunts Hoosier Hardware	4-18-53	845	J	43		2 S; 4ft, 60g, dia 1	Sd,G	P1	P1	55	D		Yield 13 gpm; L.
2281	Pine Lake Conectory	Srivor Drilling Co.	3-56	800	J	68		2 S; 60g	G	P1	P1	52			Gravel overlain by 60 ft red clay and gravel; temp 55.
2381	H. Swanson	J. Dill		800	J	68		2 S; 60g	G	P1	P1	52			Yield 15 gpm; Ca, L.
2481	T. Rose	Hunts Hoosier Hardware	10-4-57	870	J	77		2 S; 4 1/2 ft, 60g, dia 1	Sd,G	P1	P1	55	S		Yield 8 gpm; medium sand and gravel.
2481	D. Reed	Mr. Barnhouse	5-51	800	J	46		2 S; 3 1/2 ft, 60g	G	P1	P1	14	J		Yield 13 gpm; Ca, L.
2482	W. Kowalczyk	Westville Well Co.	1-24-56	815	J	79		2 S; 4ft	Sd	P1	P1	55	D		Yield 13 gpm; Ca, L.
2483	D. Deutch	Mr. Barnhouse	8-11-53	800	J	74		2 S; 3ft, 60g, dia 1	Sd	P1	P1	34	D		Yield 8 gpm; medium sand and gravel.
2481	L. D. Koiler	Hunts Hoosier Hardware	2-8-56	815	J	55		2 S; 3 1/2 ft, 60g, dia 1	Sd,G	P1	P1	40	D		Yield 13 gpm; Ca, L.
2581	T. Rose	Shell Oil Co.	1941	816	Dr	432									Oil test; bedrock at 280 ft; 219 ft shale overlain by 5 ft dolomite.
2681	E. Redding	Hunts Hoosier Hardware	4-55	825	J	35		2 S; 4 1/2 ft, 60g, dia 1	Sd,G	P1	P1	18	D		Yield 13 gpm; white sand and gravel overlain by 30 ft black dirt and brown sand.
2681	Mr. Kabbalin	Shell Oil Co.	1941	823	Dr	442									Oil test; bedrock at 280 ft; 201 ft shale overlain by 6 ft dolomite.
2611	T. Tate	H. Hope	5-17-52	825	J	71		2 S; 4ft, 60g	Sd	P1	P1	32	D		Ca, L.
2612	R. Gropp	Hunts Hoosier Hardware	7-28-56	825	J	70		2 S; 4ft, 60g, dia 1	Sd,G	P1	P1	5	D		Yield 11 gpm; L.
2781	B. Somerville	Mr. Barnhouse	4-58	805	J	45		2 S; 4ft, 40ft, dia 1	Sd	P1	P1	14	D		Yield 13 gpm; L.
2781	F. Wilhels	Hunts Hoosier Hardware	10-28-56	805	J	68		2 S; 5 1/2 ft, 60g, dia 1	Sd,G	P1	P1	6	D		Yield 13 gpm; Ca, L.
2781	K. Albrecht	do	10-28-56	805	J	117		2 S; 4ft, 60g, dia 1	G	P1	P1	6	D		Yield 13 gpm; Ca, L.
2711	La Porte Lake Development Assoc. Inc.	Layne-Northaven Co., Inc.	4-7-52	805	Dr	755									Bedrock at 245 ft; L.
2781	H. Webb	H. Hope	10-15-51	820	J	97		2 S; 60g	Sd	P1	P1		D		Ca.
2781	C. Demzian	Westville Well Co.	5-13-56	820	J	69		2 S; 4ft	Sd	P1	P1	26	D		
2881	R. Guenther	Srivor Drilling Co.	3-23-54	825	J	73		4 S; 6ft, 60g, dia 2 1/2	Sd	P1	P1	10	D		Yield 13 gpm; white sand and gravel overlain by 18 ft dirt, sand and clay.
2881	Mr. Baldwin	Westville Well Co.	8-10-56	825	J	74		2 S; 4ft	Sd	P1	P1	10	D		Yield 14 gpm; L.
2881	N. Roof	Hunts Hoosier Hardware	8-9-58	810	J	78		2 S; 4ft, 60g, dia 1	Sd,G	P1	P1	18	D		
2881	T. Ogile	Mr. Barnhouse	5-24-54	815	J	55		2 S; 4ft, 40g	Sd	P1	P1	14	D		Yield 13 gpm; white sand and gravel overlain by 18 ft dirt, sand and clay.
2882	do	Hunts Hoosier Hardware	11-25-53	815	J	75		2 S; 4 1/2 ft, 60g, dia 1	Sd,G	P1	P1	18	D		Yield 14 gpm; L.

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

Well	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone				Remarks	
									Thickness (feet)	Character	Geologic age	Conditions of occurrence		
374W-3R1	R. Paigals	Hunts Hoosier Hardware	6-10-56	655	J	57	2	2 S; 4 1/2 ft., 60g., dia 1	51	0	Sd, G	Pl	C	Yield 13 gpm; white sand and gravel overlain by 51 ft blue clay; Ch. Dd 33 ft pumping 100 gpm; L.
4N1	Interstate Glass	Indiana-Michigan Water Development Co.	5-6-59	643	Dr	131	6	5; 15ft, 30s1, dia 5 1/2	49	42	Sd	Pl	---	Yield 30 gpm; white sand and gravel overlain by 51 ft blue clay; Ch. Dd 33 ft pumping 100 gpm; L.
5A1	Houma Restaurant	Westville Well Co.	7-20-58	622	Dr	320	6	3; 16ft, 12s1, dia 5 1/2	105	58	L4? Sd	D7 Pl	C	Yield 30 gpm. Dd 10 ft pumping 120 gpm; Ch. L. Bedrock at 153 ft; L.
5R1	Mayer Drugs	Indiana-Michigan Water Development Co.	4-12-55	650	Dr	155	15-8	---	---	---	---	---	---	Flowed; Ch.
5P1	Arno Adhesive Co., Inc.	H. Hoop	Winter 1951	635	J	120	2	5; 60g	---	---	Sd	Pl	C	Dd 50 ft after about 4 hr pumping 15 gpm; L.
5P2	Tappan, Inc. L. Dean	Lakeland Well Drillers	4-3-57	640	Dr	98	4	8; 3ft., 60g	94	4	Sd	Pl	C	Dd 20 ft pumping 40 gpm; Ch. L.
7A1	Northeast Transit Co.	Layne-Northern Co., Inc.	7-2-54	635	Dr	67	5	5; 10ft., dia 5 1/2	57	10	Sd	Pl	C	Dd 15 ft pumping 4 gpm; bedrock at 180 ft; L.
7B1	Indiana State Prison	Indiana-Michigan Water Development Co.	1-11-45	640	Dr	D2	4	5; 6ft., 60g., dia 3	---	---	Sd	Pl	C	Ch. rock at 180 ft; L.
7R1	M. Dukowski	---	---	---	---	---	---	---	---	---	---	---	---	Flowed; Ch.
901	H. L. Sillcox	B. J. Moore and Son	9-21-48	668	J	52	2	2 S; 2 1/2 ft., 80g., dia 1	74	46	Sd	Pl	---	Yield 9 gpm; Ch.
9D1	Rapp and Rapp	Westville Well Co.	4-16-56	630	J	86	2	2 S; 4ft.	---	---	Sd	Pl	---	Ch. Sao log well 11F6.
9M1	Michigan City Municipal	Westville Well Co.	6-5-56	660	J	54	2	2 S; 4ft.	---	---	Sd	Pl	---	Do.
9Q1	A. Airport	Lakeland Well Drillers	7-8-56	655	J	100	2	2 S; 3ft., 60g., dia 1	---	---	Sd, G	Pl	---	Do.
10P1	K. Kolbaf	Westville Well Co.	4-16-56	630	J	86	2	2 S; 4ft.	---	---	Sd	Pl	---	Do.
11C1	C. Hyener	Testing Service Corporation	---	617	J	32	2 1/2	---	---	---	---	---	---	L. S.
11F1	Indiana State Highway Department	---	---	617	D	32	2 1/2	---	---	---	---	---	---	Sao log well 11G1.
11F2	---	---	---	617	D	32	2 1/2	---	---	---	---	---	---	Sao log well 11G3.
11F3	---	---	---	617	D	32	2 1/2	---	---	---	---	---	---	Flowed 36 gpm from 2-inch pipe when drilled; discharge from 3/4-inch pipe measured 3 gpm, 3-28-57; water level measured 3.4 ft above land, 3-28-57; Ch. L.
11F4	---	---	---	617	D	32	2 1/2	---	---	---	---	---	---	Sand from 0-22 ft. Yield 13 gpm; white sand overlain by 23 ft brown sand.
11F5	---	---	---	617	D	32	2 1/2	---	---	---	---	---	---	Flowed; for fire protection.
11F6	---	---	---	617	D	32	2 1/2	---	---	---	---	---	---	Flowed.
11G1	---	---	---	619	D	34	2	---	---	---	---	---	---	Flowed 200 gpm; sand overlain by 36 ft clay, Flowed 55 gpm. Yield 13 gpm; L.
11G2	---	---	---	619	D	34	2	---	---	---	---	---	---	Flowed.
11G3	---	---	---	618	D	32	2	---	---	---	---	---	---	L.
11G4	---	---	---	618	D	32	2	---	---	---	---	---	---	L.
11K1	A. Coffor	J. Dill	4-10-54	648	J	51	2	Ob	51	2	G	Pl	C	---
11Q1	R. Fletcher	Lakeland Well Drillers	3-9-57	645	J	22	2	2 S; 3ft., 60g., dia 1	6	16	Sd	Pl	U	---
11Q2	O. Clough	Hunts Hoosier Hardware	10-5-57	645	J	29	2	2 S; 4 1/2 ft., 60g., dia 1	16	13	Sd	Pl	U	---
11R1	Mr. Keifig	H. Hoop	Fall 1953	645	J	80	3	3 S; 40g., dia 2	---	---	G, Sd	Pl	C	---
11R2	Mr. Farris	---	Summer 1955	640	J	92	2	Ob	---	---	Sd, G	Pl	C	---
12A1	Michigan City Bail Co.	Lakeland Well Drillers	10-12-56	650	Dr	50	4	---	36	14	Sd	Pl	C	---
12B1	M. Smith	J. Dill	8-37	655	J	83	3	2 S; 4 1/2 ft., 60g., dia 1	16	18	Sd	Pl	C	---
12H1	C. Cox	Hunts Hoosier Hardware	6-11-56	640	J	72	2	2 S; 4ft., 80g., dia 1	---	---	Sd	Pl	U	---
12J1	C. Bradley	Lakeland Well Drillers	---	---	---	47	2	2 S; 4ft., 60g., dia 1	34	13	Sd, G	Pl	C	---
12J1	C. Kindig	Hunts Hoosier Hardware	6-10-57	700	J	47	3	2 S; 5ft., 60g.	45	8	Sd	Pl	C	---
12Q1	H. Lingus	J. Dill	8-56	675	J	53	3	3 S; 5ft., 60g.	---	---	Sd	Pl	C	---

37/3W-2883	T. Orlo	Hunts Hoosier Hardware	12-30-55	815	J	58	2 S; 3 1/2 ft., 60g, dia 1	18	40	SA, G	PI	U	1B	D	J1/2	Yield 13 gpm; white sand and gravel overlain by 52 ft brown sand, gravel, and black dirt. Temp 55; L. Yield 12 gpm; fine gravel overlain by 80 ft red clay and gravel; Ca. No water reported; see log well 29E2. See log well 29E2. L. Yield 8 gpm. Oil test; bedrock at 308 ft; 175 ft shale overlain by 10 ft dolomite. No water reported; L. Do. No water reported; see log well 31D1. No water reported; see log well 31D1. L. No water reported; see log well 31D1. No water reported; L. Yield 8 gpm. Sand overlain by 70 ft clay and gravel. Ca, L. Dd 21 ft pumping 285 gpm; Ca, L. Yield 13 gpm; see log well 34E2. L. Ca, L. L. See log well 35L3. L. Dd 51.5 ft after 5 hr pumping 1,700 gpm; L. For downcoring; muddy hard sand from 0-30 ft. L. Dd 58 ft after 24 hr pumping 2,000 gpm; temp 54; see log well 36C1. L. See log well 1J3. L, S. See log well 1J3. Light-brown medium sand from 0-36 ft. Pumped 33 gpm; Ca, L. Sand from 0-56 ft; Ca. Yield 17 gpm; sand from 0-53 ft. Yield 10 gpm. Yield 15 gpm; L. Yield 13 gpm; L. Ca. Yield 8 gpm; temp 56; L. Yield 12 gpm; temp 55; L. Yield 17 gpm; L. Yield 13 gpm; Ca, L.
2884	A. Bowen	J. Dill	11-55	820	J	69	2 S; 60g	57	5	SA	PI	C	32	D		
2911	H. Anderson		6-55	885	J	87	2 S; 3ft., 60g	80	7	G	PI	C	70	D, S	P	
2952	Indiana Toll Road Commission	Westville Engineering Co.	4-30-54	869	B	50		41	9	SA	PI	U	41	T		
2953			1954	868	D	40								T		
2954			1854	869	D	50								T		
2955			1854	870	J	50								T		
2981	R. Kohn	Hunts Hoosier Hardware	4-1-58	850	J	128	2 S; 6ft., 00g, dia 1	120	8	SA	PI	C	85	D		
2981	F. Kloss			845	J	70	2 S; 3 1/2 ft., 60g, dia 1			SA	PI	U	38	D, S		
2981	Mr. Orr	Shell Oil Co.	1941	842	Dr	483										
2981				845	J	39	2 S; 5ft., 90g, dia 1			SA	PI		75	D		
3011	J. Engstrom	Hunts Hoosier Hardware	6-28-58	845	J	42								T		
3101	Indiana Toll Road Commission	Westville Engineering Co.	1954	847	D	42								T		
3102			5-2-54	865	B	48	2 1/2							T		
3102			5-4-54	865	B	42	2 1/2							T		
3103			5-3-54	865	D	00	2 1/2							T		
3104			5-4-54	864	B	00								T		
3105			5-3-54	864	B	60	2 1/2							T		
3106			5-4-54	860	B	60	2 1/2							T		
3107	J. Kramer		1954	862	B	30	2							T		
3131	K. Kramer	J. Dill	6-58	855	J	75	2 S; 3ft., 60g	70	5	SA	PI	C	30	D, S	J3/4	
3132				855	J	92				SA	PI		57	D		
3141	Mr. Lewis	Mr. Barnhouse	4-2-54	855	J	94	2 S; 00g	81	13	SA	PI	C	42	D, S	3/4	
3201	R. Swanson		840	J	01	2	2 S; 3 1/2 ft., 80g, dia 1			SA	PI		18	D	1/2	
3341	J. Chaluk	Layne-Northern Co., Inc.	4-29-49	835	Dr	75	8 S; 10ft., dia 6	31	45	SA, G	PI	U	31	S	T5	
3341	S. Jesko	Westville Well Co.	8-1-56	835	J	95	2 S; 4 1/2 ft			SA	PI		45	D	J	
34E1	A. Grochowick	Hunts Hoosier Hardware	2-6-56	840	J	83	2 S; 3ft., 00g, dia 1			SA, G	PI			D		
34E2			7-10-59	840	J	72	2 S; 4ft., 60g, dia 1	50	22	SA, G	PI	C	35	D		
34P1	City of La Porte		6-19-58	800	J	84	2			SA, G	PI		28	P	L	
35E1	Shrove Construction Co.	Layne-Northern Co., Inc.	10-15-51	807	Dr	51				SA, G	PI			T		
35L2	City of La Porte		3-24-42	807	Dr	89		15	74	SA, G	PI	U	15	T		
35L2			3-26-48	807	Dr	92		12	112	SA, G	PI	V	12	T		
35L3			4-6-48	807	Dr	124	8-0	11	121	SA, G	PI	V	11	N		
35L4			6-18-48	807	Dr	132	38 Cp; 5; 40ft., 80g, dia 18			SA	PI	V		N		
35L5			1-23-51	807	Dr	30	12			SA	PI	V		N		
36C1			10-1-48	867	Dr	138	8-0	18	122	SA, G	PI	V	18	N	T125	
36C2			3-3-51	807	Dr	137	38 Cp; 5; 40ft., 105g, dia 18			SA, G	PI	V		N		
37/4W-1J1	Indiana State Highway Department	Testing Service Corporation	1958	631	B	32	2 1/2	0	18	SA	PI	V	0	T		
1J2			1958	637	D	32	2 1/2	4	28	SA, G	PI	U	4	T		
1J3			1958	640	B	56	2 1/2	3	36	SA	PI	U	3	T		
1J4			1958	642	D	36	2 1/2	4	30	SA	PI	U	4	T		
1J5			1958	637	D	36	2 1/2	4	32	SA	PI	U	4	T		
1R1	T. R. Tennant	Hunts Hoosier Hardware	6-13-59	660	J	80	2 C	80		SA	PI	C		D		
201	W. Yeater	Lakeland Well Drillers	2-9-57	645	J	56	2 S; 3 1/2 ft., 90g, dia 1 1/2			SA	PI	V	30	D	J	
202	C. Young		7-7-57	645	J	53	2 S; 3ft., 80g, dia 1	30	23	SA	PI	V		D	1/3	
2E1	White Eagles Park		5-26-55	630	J	70	2			SA	PI		16	D	1	
2F2	R. White	Hunts Hoosier Hardware	7-14-57	635	J	10	2 S; 3 1/2 ft., 60g, dia 1			SA, G	PI		12	D		
2F1	Mr. Brizick		0-10-57	630	J	31	2 S; 4 1/2 ft., 60g, dia 1	30	5	SA	PI	C	15	N		
2H1	Ramsay Trailer Sales	Lakeland Well Drillers	6-11-56	635	J	81	2 S; 5 1/2 ft., 80g, dia 1			SA	PI			P	J3/4	
2K1	V. Kelly	J. Dill	3-56	645	J	48	2 S; 3ft., 60g	42	6	SA	PI	C	33	D	J1/2	
2R1	S. Dymard	Lakeland Well Drillers	5-1-57	635	J	50	2 S; 3ft., 80g	45	5	SA	PI	C	21	D	J1/2	
3A1	Emergent Baptist Church	Lakeland Well Drillers	5-1-57	635	J	140	3 S; 10ft., 80g, dia 2	134	16	SA	PI	C	40	P	J1-1/2	
3Q1	C. E. Krullik	Hunts Hoosier Hardware	5-25-56	660	J	103	2 S; 4 1/2 ft., 80g, dia 1	97	0	G, SA	PI	C	30	D		

No.	Name	Company	Address	Date	665	Depth	Temp	Dia	Flow	Specs	Yield	Spd	Pl	N	Remarks
1301	Mr. Bergstrom	Montville Well Co.	Montville Well Co.	4-53	670	63	J		S; 40% S; 3ft, 80% S; 5ft, 60% S; 4ft, 60%	Sd					Spring; discharge measured 7 gpm 3-28-57; spring zone 2 ft above creek; slugs other water in zone; combined flow estimated 65 gpm; Ca.
1302	Mr. Fehrenhor	Montville Well Co.	Montville Well Co.	7-15-58	665	60	J			Sd					
1303	E. Stoilgross	Montville Well Co.	Montville Well Co.	7-22-58	680	79	J			Sd					
1304	Mr. Horrold	Montville Well Co.	Montville Well Co.	1841	727	394	D			Sd,G					
1431	Mr. Lanko	Indiana State Highway Department		1953		69	J		S; 40% S; 2ft, 60% S; 3ft, 60%	Sd,G					Yield 15 gpm; Ca, L. Oil test; borehole at 204 ft; 60 ft shale underlain by 20 ft detritate.
1441	R. Clough	Indiana State Highway Department		7-1-59	670	55	J			Sd					
1441	J. Lamson	Indiana State Highway Department		5-22-54	685	70	J			Sd					
1441	W. Randolph	Indiana State Highway Department		8-56	680	52	J			Sd					
1441	J. Gayer	Indiana State Highway Department			629	44	J			Sd					
1491	Indiana State Highway Department				629	30	J			Sd					
1582					629	70	D			Sd,G					
1500					646	52	D			Sd,G					
1504					643	54	D			Sd,G					
1585					643	54	D			Sd,G					
1586					637	52	D			Sd,G					
1587					627	72	D			Sd,G					
1508					627	72	D			Sd,G					
1501					620	70	D			Sd,G					
1502					627	70	D			Sd,G					
1581					632	72	D			Sd,G					
1582					635	72	D			Sd,G					
1583					634	72	D			Sd,G					
1584					634	72	D			Sd,G					
1584					639	70	D			Sd,G					
1681					639	30	D			Sd,G					
1081	Coalyring Township School	Indiana-Michigan Water Development Co.		11-24-50	659	62	D		S; 10ft, 30% dia 5 1/2	G	10	C	+	0	Dd 3.5 ft pump log 180 gpm; observation well La Porte 6'; water level measured 4.00 ft above land, 5-20-56; L.
1711	Indiana State Highway Department	Brighton Engineering Co.		11-13-58	658	30	D								See log well 1742.
1712					661	50	D								
1711					660	30	D								
1712					600	30	D								
1711					680	30	D								
1782					680	30	D								
1861					650	30	D								
1861					658	55	D								
1861					670	55	D								
1861					667	49	D								
1901					667	49	D								
1901					661	57	D								
2181					666	31	J								
2291					666	31	J								
2291					666	31	J								
241	C. Tractel			8-56	800	199	J		S; 4ft, 60% S; 2ft, 80%	Sd	9	C			Sand and gravel overlain by 40 ft fine sand and clay and 10 ft sand.
2401	A. Krueger			5-29-54	700	35	J			Sd	3	C			L. S. Yield 8 gpm; fine sand overlain by 30 ft clay mixed with fine sand.
2641	J. Dill			1-47	830	126	J		S; 3ft, 80% S; 2ft, 80%	Sd	6	C			Ca, L. Yield 30 gpm; L.
2601	J. Patton			6-55	760	124	J			Sd	20	C			
2601	A. Fines			6-21-51	820	108	J		S; 3ft, 60% S; 3ft, 80% S; 3ft, 80% S; 3ft, 80%	Sd	115	C			
2601	A. Fines			3-15-51	810	85	J			Sd	105	C			
2611	A. Fines			8-75	875	130	J			Sd	35	C			
2611	P. Stabing			7-35	735	158	J			Sd	55	C			
2701	P. Jozwiak			8-56	740	60	J			Sd	42	C			
2701	J. M. Jozwiak				740	60	J			Sd	42	C			
2701	J. Swicki			6-56	770	96	J			Sd	6	C			
2701	J. Swicki				770	96	J			Sd	6	C			
3211	Pleasant Valley Park			5-55	695	46	J			Sd	6	C			
3511	Indiana Toll Road Commission	Kentville Engineering Co.			813	45	D								

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

Well	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone					Water level (feet)	Use	Type of pump and horsepower	Remarks
									Thickness (feet)	Character	Geologic age	Conditions of occurrence	Depth to top (feet)				
37/W-3532	Indiana Toll Road Commission	Westville Engineering Co.	5-26-54	850	D	40											No water reported; see log well 3531.
35N1	do	do	5-26-54	834	D	32											See log well 35P4.
35P1	do	do	5-26-54	832	D	82											No water reported; L.
35P2	do	do	5-26-54	832	D	82											Do.
35P3	do	do	5-26-54	833	D	82											Do.
35P4	do	do	5-26-54	835	D	92											L.
35Q1	A. Wozniak	do	5-26-54	840	D	75		S; 60g, dia 1									Ca.
38A1	Indiana Toll Road Commission	Westville Engineering Co.	5-12-54	868	D	30	2 1/2										No water reported; L.
38F1	do	do	5-5-54	840	B	30											Do.
38G1	do	do	5-3-54	881	D	57											See log well 38G5.
38G2	do	do	5-3-54	884	D	52											See log well 38G4.
38G3	do	do	5-3-54	883	B	36											No water reported; see log well 38G5.
38G4	do	do	5-5-54	887	D	55											No water reported; L.
38G5	do	do	5-9-54	875	B	30											No water reported; see log well 38G5.
38G6	do	do	5-12-54	873	B	30											No water reported; L.
38M1	do	do	5-5-54	844	B	40											No water reported; see log well 38G5.
38M2	do	do	5-8-54	848	D	40											No water reported; see log well 38G5.
38/W-791	R. Ackerman	Hunts Hoopier Hardware	12-25	765	J	90	3	S									No water reported; L.
16J1	Indiana Toll Road Commission	Raymond Concrete Pile Co.	4-14-54	811	D	45											No water reported; see log well 38M1.
18P1	do	KGF Foundation Test Borings, Inc.	8-11-54	821	D	45											Yield 17 gpm; Ca, L.
18P2	do	do	6-9-54	820	D	55											No water reported; see log well 18P2.
18Q1	do	do	0-12-54	823	D	30											L.
18Q2	do	do	6-12-54	820	D	40											No water reported; see log well 18Q5.
18Q3	do	do	6-10-51	818	D	40											No water reported; L.
18Q4	do	do	6-12-54	819	D	40											See log well 18Q5.
18Q5	do	do	6-9-54	820	B	40											L.
17P1	M. S. Olson	Hunts Hoopier Hardware	3-28-57	785	J	58	2	S; 4ft, 60g, dia 1									Yield 13 gpm; Ca, L.
18D1	F. Miller	do	3-11-58	780	J	59	2	S; 4ft, 60g, dia 1									Do.
18D2	do	do	3-11-58	780	J	59	2	S; 4ft, 60g, dia 1									Ca.
19E1	G. Grott	Hunts Hoopier Hardware	3-22-55	843	J	74	2	S; 3ft, 60g, dia 1									Yield 13 gpm; Ca, L.
19M1	J. Brozovich	do	11-2-55	825	J	72	2	S; 4ft, 60g, dia 1									Yield 13 gpm; sand and gravel overlain by 18 ft clay and sand.
19N1	Indiana Toll Road Commission	KGF Foundation Test Borings, Inc.	5-0-54	810	B	44											L.
19N2	do	do	5-5-54	811	D	35											No water reported; see log well 19N1.
19N3	do	do	5-0-54	810	D	45											No water reported; see log well 19N4.
19M4	do	do	5-4-54	810	B	45											No water reported; L.
20M1	do	do	5-10-54	822	B	40											Do.
20N2	do	do	5-9-54	822	B	40											No water reported; see log well 20N5.
20K3	do	do	5-10-54	821	D	45											Do.
20M4	do	do	5-9-54	819	D	35											No water reported; see log well 20M1.
20M5	do	do	5-10-54	818	D	45											No water reported; L.
20Q1	C. Hunter	Hunts Hoopier Hardware	8-19-54	803	J	57	2	S; 60g									Yield 15 gpm; sand and gravel overlain by 21 ft brown clay.
21D1	S. L. Adams	Salvor Drilling Co.	8-24-53	802	J	69	2	S; 3ft, 60g, dia 1 1/2									Ca, L.
21D1	Indiana Toll Road Commission	KGF Foundation Test Borings, Inc.	6-12-54	808	D	45											No water reported; L.

38/1W-21N1 28D1	J. Vittek E. Johnson	Hunts Hoosier Hardware	5-34 3-4-55	705 J 795 J	67 J 45 J	2 S; 00R 2 S; 3 1/2 ft. 60g. dia 1	40 dia 1 28 dia 1	27 17	Sd.G G, Sd	PI PI	C V	30 D 28 P	J1/2 ---	L. Yield 13 gpm; brown gravel and sand overlain by 18 ft brown clay and gravel; Ca, L. Sand and gravel overlain by 3 ft clay. Ca, L. Yield 7 gpm; Yield 7 gpm; coarse sand overlain by blue clay. L. Yield 15 gpm; coarse sand and post-sized gravel overlain by 60 ft silty blue clay and 15 ft brown sand. Yield 15 gpm; white sand overlain by 36 ft clay and sand; Ca. Ca, L. Ca. Yield 13 gpm; L. Sand and gravel overlain by 84 ft sand. Yield 13 gpm; white sand overlain by 17 ft clay. Yield 15 gpm; brown gravel overlain by 18 ft brown sand. Yield 15 gpm; sand and gravel overlain by 20 ft clay and 30 ft sand. Ca, L. Fine to coarse sand with gravel from 0-40 ft; Ca. Yield 13 gpm; L. Do. Do. Yield 13 gpm; Ca, L. Ca, L. Flowed 7 gpm; discharge measured 2.5 gpm. J-13-57; Ca, L. Flowed 12 gpm; L. Ca, L. See log well 14Q1; Ca. Yield 25 gpm. Yield 20 gpm. Yield 12 gpm; Ca, L. L. Flowed 2 gpm; Ca. Yield 15 gpm; L. Oil test; bedrock at 175 ft; L. Flowed 15 gpm; fine to coarse gravel overlain by 110 ft blue clay and fine sand; Ca. Yield 13 gpm; Ca, L. White coarse sand and gravel overlain by 75 ft blue clay and silt and 75 ft gravel and brown sand; Ca. Yield 13 gpm; L. Sand and gravel overlain by 50 ft brown coarse sand and 10 ft brown clay. No water reported; L. Do. L. Yield 15 gpm; sand and gravel overlain by 18 ft clay; Ca. Yield 13 gpm; L. No water reported; L.
28C1	J. V. Fonia	---	6-10-58	780 J	40 J	2 S; 4ft. 60g. dia 1	32 dia 1	8	Sd.G	PI	C	18 D	---	
28D1	J. R. Puzal	---	7-7-59	780 J	28 J	2 S; 4ft. 60g. dia 1	18 dia 1	10	Sd.G	PI	V	18 D	---	
28E1	J. Junter	H. Hope	11-16-51	790 J	60 J	2 S; 4ft. 60g.	---	---	Sd.G	PI	---	---	P	
28F1	D. Ison	---	11-28-51	780 J	91 J	2 S; 6ft. 60g.	80 dia 1	8	Sd.G	PI	---	---	J1/2	
28G1	S. Cohen	---	11-30-51	780 J	91 J	2 S; 6ft. 60g.	80 dia 1	8	Sd	PI	---	---	---	
28H1	P. Sam	Hunts Hoosier Hardware	7-54	790 J	40 J	2 S; 60g.	18 dia 1	22	Sd.G	PI	V	18 D	---	
28I1	R. Jones	---	7-53	780 J	86 J	2 S; 40g.	75 dia 1	11	Sd.G	PI	C	15 D	---	
28J1	P. Barr	---	11-54	780 J	54 J	2 S; 60g.	36 dia 1	18	Sd	PI	C	14 D, P	J1/2	
28K1	W. Mueller	---	8-14-58	775 J	50 J	2 S; 4ft. 60g. dia 1	38 dia 1	21	Sd.G	PI	C	12 D	---	
28L1	T. Garoutto	---	Spring 1940	780 J	30 J	2 S; 60g.	20 dia 1	19	Sd.G	PI	C	14 D	J1	
28M1	W. DeJman	---	7-55	805 J	77 J	2 S; 4ft. 60g. dia 1	70 dia 1	17	Sd.G	PI	V	10 D	---	
28N1	R. Eckart	---	7-55	805 J	88 J	2 S; 4 1/2 ft. 60g. dia 1	70 dia 1	17	Sd	PI	C	7 D	---	
28O1	F. Czarnecki	---	5-8-57	775 J	22 J	2 S; 4ft. 80g. dia 1	17 dia 1	5	Sd	PI	C	7 D	---	
28P1	H. Werth	---	5-10-57	795 J	48 J	2 S; 3 1/2 ft. 60g. dia 1	34 dia 1	14	G	PI	V	34 D	---	
28Q1	W. Robb	---	7-21-54	810 J	62 J	2 S; 4ft. 60g.	50 dia 1	12	Sd.G	PI	C	45 D	J	
28R1	R. Kelly	---	8-25-58	860 J	118 J	2 S; 4ft. 60g. dia 1	25 dia 1	15	Sd	PI	---	93 D	J1/2	
28S1	A. Thompson	---	Summer 1940	830 J	40 J	2 S; 60g.	25 dia 1	15	Sd.G	PI	U	25 D	---	
28T1	C. Kelly	---	12-24-56	855 J	102 J	2 S; 4ft. 60g. dia 1	76 dia 1	26	Sd.G	PI	V	76 D, S	L	
28U1	R. Marlow	---	11-23-56	840 J	88 J	2 S; 4ft. 60g. dia 1	71 dia 1	17	Sd.G	PI	V	71 D	J3/4	
28V1	P. Parry	---	11-1-57	840 J	88 J	2 S; 4ft. 60g. dia 1	69 dia 1	17	Sd	PI	V	70 D	---	
28W1	L. Belmans	---	12-23-55	820 J	88 J	2 S; 4ft. 60g. dia 1	69 dia 1	17	Sd	PI	V	69 D	---	
28X1	E. Tichotzki	---	7-19	705 J	60 J	2 S; 60g.	50 dia 1	10	Sd	PI	C	20 S	J1/2	
28Y1	G. Kuehse	---	4-56	722 J	29 J	2 S; 4 1/2 ft. 60g. dia 1	25 dia 1	4	Sd	PI	C	---	L	
28Z1	Dr. Cartor	---	4-56	722 J	69 J	2 S; 4ft. 60g. dia 1	60 dia 1	6	Sd	PI	C	---	J1/4	
29A1	B. Phelan	---	8-28-58	870 J	70 J	2 S; 5ft. 60g. dia 1	70 dia 1	9	Sd	PI	C	6 D	---	
29B1	C. Stross	---	11-1-58	700 J	32 J	2 S; 4ft. 60g. dia 1	27 dia 1	5	Sd	PI	C	14 D	---	
29C1	J. Williams	---	4-40	700 J	46 J	2 S; 60g.	---	---	Sd.G	PI	---	18 D	J1/2	
29D1	D. Lewis	---	7-53	640 J	36 J	2 S; 4ft. 60g. dia 1	---	---	Sd.G	PI	---	15 D	J1/2	
29E1	L. Sharps	---	7-54	675 J	56 J	2 S; 4ft. 60g. dia 1	50 dia 1	6	Sd.G	PI	---	18 D	J1/2	
29F1	R. Stevenson	---	7-30-58	645 J	41 J	2 S; 5ft. 60g. dia 1	33 dia 1	8	Sd.G	PI	C	8 D	---	
29G1	D. Sinter	A. Good	7-27-54	645 J	49 J	2 S; 4ft. 60g.	---	---	Sd	PI	C	---	---	
29H1	A. C. Crowl	Hunts Hoosier Hardware	7-27-54	685 J	185 J	2 S; 4ft. 60g.	160 dia 1	5	Sd	PI	C	80 D	J1	
29I1	G. Norton	T. Johnson and E. Wicklund	4-30-46	704 J	792 J	6-5	---	---	Sd	PI	---	---	---	
29J1	A. S. Moser	Hunts Hoosier Hardware	10-53	680 J	110 J	2 S; 4ft. 60g. dia 1	110 dia 1	0	G	PI	C	---	---	
29K1	A. Schock	---	8-4-56	755 J	94 J	2 S; 4ft. 60g. dia 1	80 dia 1	4	Sd	PI	C	30 D	L	
29L1	Mr. Keohn	---	10-52	790 J	150 J	2 S; 10 1/2	150 dia 1	6	Sd.G	PI	C	80 D	L	
29M1	Mr. Matyckak J. Laskowski	---	6-15-57	770 J	63 J	2 S; 4ft. 60g. dia 1	75 dia 1	15	Sd.G	PI	---	48 D	---	
29N1	P. Jezwick	---	10-50	845 J	90 J	2 S; 60g.	---	---	Sd.G	PI	U	75 D	L1	
29O1	Indiana Toll Road Commission	H. Hope	7-52	815 J	88 J	2 S; 4ft. 60g. dia 1	---	---	Sd.G	PI	---	---	---	
29P1	Indiana Toll Road Commission	KOF Foundation Test Borings, Inc.	5-7-54	810 J	51 J	---	---	---	Sd.G	PI	---	---	---	
29Q1	H. Duff	---	5-8-54	809 J	40 J	2 S; 4ft. 60g.	---	---	Sd.G	PI	---	---	---	
29R1	H. Duff	Hunts Hoosier Hardware	9-12-54	784 J	35 J	2 S; 4ft. 60g.	35 dia 1	14	Sd.G	PI	U	35	J	
29S1	M. Korsh	---	0-24-57	815 J	65 J	2 S; 4ft. 60g. dia 1	51 dia 1	14	Sd	PI	V	51 D	---	
29T1	Indiana Toll Road Commission	KOF Foundation Test Borings, Inc.	5-1-54	815 J	40 J	2 S; 4ft. 60g. dia 1	---	---	Sd	PI	---	---	---	

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

Well	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone						Remarks	
									Depth to top (feet)	Thickness (feet)	Character	Geologic age	Conditions of occurrence	Water level (feet)		Use
25D2	Indiana Toll Road Commission	KOF Foundation Test Borings, Inc.	5-3-54	815	B	34										No water reported; see log well 25D1.
25D3	J. H. Mator	Hunts Hooplor (Hydwaro)	8-14-58		J	77	2	S; 5ft., 60g, dia 1								L.
25D4	F. Kober		4-23-50		J	50	2	S; 4ft., dia 1								See log well 25C1.
25G1	Mr. Ebel		3-28-57		J	58	2	S; 4ft., 60g, dia 1								Yield 13 gpm; see log well 25C1; Ca.
25H1	P. D. Swaindorf				J	54	2	S; 60g								Yield 13 gpm; see log well 25C1.
25H2	Mr. LaRoche		8-11-54		J	54	2	S; 3ft., 60g								Yield 15 gpm; see log well 25M4; Ca.
25H3	K. DeWator		Summer 1955		J	54	2	S; 3ft., 60g, dia 1								Yield 15 gpm; see log well 25C1.
25H4	Mr. Schlunt		6-3-50		J	52	2	do								Yield 13 gpm; L.
25H5	M. Johnson		8-14-57		J	85	2	S; 4ft., 60g, dia 1								Yield 13 gpm; Ca, L.
25H6	A. Bart		3-16-57		J	72	2	do								Yield 13 gpm; L.
26A1	Indiana Toll Road Commission	KOF Foundation Test Borings, Inc.	3-16-57	780	B	24										No water reported; see log well 26A4.
26A2			5-5-54	815	B	30										Do.
26A3			8-1-54	814	B	30										Do.
26A4			3-4-54	814	B	40										No water reported; L.
26A5			3-4-54	813	B	35										No water reported; see log well 26A4.
26G1			5-12-54	810	B	20										No water reported; L.
26G2			3-15-54	820	B	45										Do.
26G3			3-22-54	820	B	38										No water reported; see log well 26G2.
26G4			5-21-54	825	B	40										Do.
26G5			3-8-54	831	B	40										No water reported; see log well 26K2.
26H1			8-13-54	811	B	20										No water reported; L.
26K1			8-21-54	824	B	35										No water reported; see log well 26K2.
26K2			5-18-54	831	B	40										Do.
26K3			5-19-54	830	B	35										No water reported; see log well 26K2.
26K4			5-22-54	825	B	35										Do.
26N1			4-30-54	830	B	43										No water reported; L.
26N2			5-1-54	830	B	30										No water reported; see log well 26N1.
26N3			4-29-54	829	B	35										Do.
26N4			5-1-54	829	B	34										No water reported; see log well 26N1.
26P1			4-20-54	828	B	35										Do.
26P2			4-29-54	828	B	27										No water reported; see log well 26N1.
26C1	K. Reynolds	Hunts Hooplor (Hydwaro)	Fall 1954	720	J	32	2	S; 3ft., 60g, dia 1								L.
26G1	Mr. Vogots		1954	730	J	74	2	do								L.
26K1	C. Schloyer		1954	715	Dr	30	1 1/2	S; 60g								Flowed 3 gpm.
26K2	G. Graf		8-31-54	700	J	26	2	S; 3ft., 60g								Flowed; yield 15 gpm; sand overlain by 23 ft clay.
26L1	T. Mough		8-6-58	700	J	66	3	S; 5ft., 80g, dia 1								L.
26H1	H. Baker		5-27-57	890	J	130	2	S; 4ft., 60g, dia 1								Yield 13 gpm; brown sand from 0-130 ft; Ca.
26C1	J. Shiffli		5-4-55	785	J	48	2	S; 3ft., 60g, dia 1								Brown sand overlain by 26 ft sand, gravel, and clay.
26C2	L. Lottor		Summer 1949	805	J	57	2	S; 60g								Brown sand overlain by about 40 ft mixed sand and clay.
26E1	J. C. Koester		4-2-58	855	J	128	2	S; 4ft., 60g, dia 1								Yield 13 gpm; Ca, L.
26E1	M. Dittmar		8-28-59	860	J	115	2	S; 5ft., 60g, dia 1								L.

Job No.	Client	Address	City	State	Year	Est. No.	Proj. No.	Proj. Name	Proj. Description	Proj. Status	Proj. Date	Proj. Type	Proj. Value	Proj. Unit	Proj. Notes
3B/28-33D1 33H1	J. Boguski Woods and Beach	-----do-----	-----do-----	-----do-----	7-54 7-40	875 850	J J	117 119	2 2	2 S; 60g	110 115	7 4	Sd,G Sd	PI PI	L, Brown coarse sand overlain by about 115 ft brown soft clay; Ca. Dd 14 ft pumping 150 gpm; L.
34A1	Indiana Toll Road Commission	-----do-----	-----do-----	-----do-----	1955	840	Dr	130	10	S; 15ft	77	30	Sd,G	PI	L, No water reported; L.
34A2	-----do-----	-----do-----	-----do-----	-----do-----	10-10-55 5-21-54	840 845	Dr B	116 35	10 10	S	73 73	43	Sd,G	PI	L, No water reported; L.
34D1	Zionist Labor Party	-----do-----	-----do-----	-----do-----	Summer 1949	870 860	J B	96 15	4	S; 60g	80	16	Sd,G	PI	Sand and gravel overlain by 40 ft clay mixed with sand. See log well 34H1.
34G1	Indiana Toll Road Commission	-----do-----	-----do-----	-----do-----	3-11-54	860	B	40	---	---	---	---	Sd	PI	No water reported; L. Do.
34H1	-----do-----	-----do-----	-----do-----	-----do-----	1954	839	B	40	---	---	---	---	Sd	PI	---
34H2	-----do-----	-----do-----	-----do-----	-----do-----	1954	841	B	28	---	---	---	---	Sd	PI	---
35P1	S. Mrozinski	-----do-----	-----do-----	-----do-----	1941	845	J	95	2	S; 00g	78	17	Sd	PI	Yield 13 gpm; L.
35P2	-----do-----	-----do-----	-----do-----	-----do-----	5-14-56	845	J	95	2	S; 4 1/2 ft, 60g, dia 1	37	5	Sd	PI	See log well 9Q2.
3B/3W- 9Q1	Indiana State Highway Department	-----do-----	-----do-----	-----do-----	1958	676	B	42	24	---	---	---	Sd	PI	---
9Q2	-----do-----	-----do-----	-----do-----	-----do-----	1958	676	B	52	24	---	---	---	Sd	PI	---
9Q3	-----do-----	-----do-----	-----do-----	-----do-----	1958	676	B	52	24	---	---	---	Sd	PI	See log well 9Q2.
9Q4	-----do-----	-----do-----	-----do-----	-----do-----	1958	676	B	82	24	---	---	---	Sd	PI	L, S.
9Q5	-----do-----	-----do-----	-----do-----	-----do-----	1958	676	B	46	24	---	---	---	Sd	PI	L, S.
10E1	-----do-----	-----do-----	-----do-----	-----do-----	1958	676	B	62	24	---	---	---	Sd,G	PI	L, S.
10E2	-----do-----	-----do-----	-----do-----	-----do-----	1958	676	B	52	24	---	---	---	Sd,G	PI	See log well 10E1.
10E3	-----do-----	-----do-----	-----do-----	-----do-----	1958	676	B	63	24	---	---	---	Sd	PI	See log well 10E2.
10E4	-----do-----	-----do-----	-----do-----	-----do-----	1958	676	B	46	24	---	---	---	Sd	PI	Yield 13 gpm; white sand overlain by 30 ft clay and sand; Ca.
11K1	J. Farina	-----do-----	-----do-----	-----do-----	9-58	675	J	48	2	S; 4 1/2 ft, 60g, dia 1	---	---	Sd	PI	Yield 13 gpm; white sand overlain by 70 ft blue clay and silt; Ca.
13B1	Mr. Mank	-----do-----	-----do-----	-----do-----	7-53	677	J	80	2	S; 3ft, 60g, dia 1 1/2	70	80	Sd	PI	Course sand and gravel over- lain by 50 ft clay and sand. Ca, L.
13R1	B. Shippol	-----do-----	-----do-----	-----do-----	---	695	J	70	2	---	53	17	Sd,G	PI	Yield 13 gpm; L.
14A1	R. Grandorf	-----do-----	-----do-----	-----do-----	9-56	690	J	76	2	S; 4ft, 60g, dia 1	71	5	Sd	PI	Drawn fine sand from 0-26 ft. Sand overlain by 60 ft clay; Ca.
15J1	W. Schultz	-----do-----	-----do-----	-----do-----	6-29-58	690	J	40	2	---	34	6	Sd	PI	---
16A1	R. Schultz	-----do-----	-----do-----	-----do-----	8-19-59	675	J	26	2	S; 8ft, 80g, dia 1	15	11	Sd	PI	---
17B1	H. Martin	-----do-----	-----do-----	-----do-----	12-22-57	650	J	67	2	S; 4ft, 60g, dia 1	60	7	Sd	PI	---
17D1	T. Mazac	-----do-----	-----do-----	-----do-----	10-30-58	620	J	40	2	S; 3 1/2 ft, 80g, dia 1	---	---	Sd	PI	See log well 17Q3.
17Q1	Indiana State Highway Department	-----do-----	-----do-----	-----do-----	---	652	D	42	24	---	---	---	---	---	Do.
17Q2	-----do-----	-----do-----	-----do-----	-----do-----	---	652	D	46	24	---	---	---	---	---	See log well 17Q3.
17Q3	-----do-----	-----do-----	-----do-----	-----do-----	---	652	D	56	24	---	---	---	---	---	Do.
17Q4	-----do-----	-----do-----	-----do-----	-----do-----	---	652	D	32	24	---	---	---	---	---	Do.
17Q5	-----do-----	-----do-----	-----do-----	-----do-----	---	654	D	36	24	---	---	---	---	---	Ca.
18D1	Shady Oak Trailer Court	-----do-----	-----do-----	-----do-----	6-8-56	620	J	18	2	S	13	5	Sd	PI	No water reported; L. Yield 12 gpm; white fine sand overlain by 84 ft blue clay and quicksand; Ca. White medium sand overlain by silt and clay; Ca. White sand and gravel over- lain by 30 ft hard blue clay and sand; Ca.
19A1	W. Crann	-----do-----	-----do-----	-----do-----	7-54	635	J	131	2	S; 9ft, 60g, dia 1	84	11	Sd	PI	See log well 28F2.
22L1	H. Heath	-----do-----	-----do-----	-----do-----	9-15-57	685	J	95	2	---	---	---	---	---	L, S.
23A1	R. Kessler	-----do-----	-----do-----	-----do-----	Spring 1947	695	J	85	2	S; 60g	78	7	Sd	PI	See log well 28F2.
23P1	S. Ball	-----do-----	-----do-----	-----do-----	Winter 1951	670	J	40	2	---	30	10	Sd,G	PI	Yield 13 gpm; sand and gravel overlain by 66 ft clay; Ca.
24L1	Mr. Ott	-----do-----	-----do-----	-----do-----	---	660	Dr	35	1 1/2	S	---	---	Sd	PI	See log well 31J1.
28F1	Indiana State Highway Department	-----do-----	-----do-----	-----do-----	2-18-59	683	B	30	24	---	---	---	Sd,G	PI	L, S.
28F2	-----do-----	-----do-----	-----do-----	-----do-----	2-18-59	663	B	50	24	---	---	---	Sd	PI	---
20F3	-----do-----	-----do-----	-----do-----	-----do-----	2-18-59	684	B	30	24	---	---	---	Sd,G	PI	---
26F4	-----do-----	-----do-----	-----do-----	-----do-----	2-19-59	664	B	30	24	---	---	---	Sd,G	PI	---
31G1	G. Burns	-----do-----	-----do-----	-----do-----	5-6-57	675	J	72	2	S; 3ft, 60g, dia 1	60	6	Sd,G	PI	---
31L1	Indiana State Highway Department	-----do-----	-----do-----	-----do-----	---	624	D	36	24	---	---	---	Sd	PI	---
31L2	-----do-----	-----do-----	-----do-----	-----do-----	---	622	D	30	24	---	---	---	Sd	PI	---
31L3	-----do-----	-----do-----	-----do-----	-----do-----	---	624	D	32	24	---	---	---	Sd	PI	---
31L4	-----do-----	-----do-----	-----do-----	-----do-----	---	622	D	32	24	---	---	---	Sd	PI	---
31H1	-----do-----	-----do-----	-----do-----	-----do-----	9-3-58	621	B	40	24	---	---	---	Sd	PI	---
31H2	-----do-----	-----do-----	-----do-----	-----do-----	9-4-58	620	B	46	24	---	---	---	G, Sd	PI	Flowed; L.

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

Well	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone				Use	Type of pump and horsepower	Remarks
									Thickness (feet)	Character	Geologic age	Conditions of occurrence			
38/3W-3301	C. Jones	Hunts Hoosier Hardware	7-0-53	860	J	50	2	S; 60g	40	G	P1	C	12	J1/2	Blue coarse gravel overlain by 40 ft blue clay mixed with sand and gravel. Yield 13 gpm; Ca, L.
3302	R. Jenou	-----do-----	Fall 1954	860	J	50	2	S; 4ft, 80g	---	G, Sd	P1	---	17	9/4	Yield 13 gpm; L. Gravel overlain by 8 ft sand; Ca, L.
3301	R. Kowalski	-----do-----	8-3-58	880	J	35	2	S; 3 1/2 ft, 60g, dia 1	51	G, Sd	P1	U	51	---	Flowed 2.5 gpm; pumped 10 L, gpm; Ca, L.
3501	J. Benson	H. Hoop	10-11-51	880	J	35	2	S; 80g	---	G	P1	U	---	---	Flowed 2.5 gpm; pumped 10 L, gpm; Ca, L.
35X1	O. and H. Pollock	Hunts Hoosier Hardware	12-20-56	885	J	40	2	S; 4ft, 60g, dia 1	34	Sd, G	P1	C	---	J	Sand from 0-37 ft.
36M1	D. Helm	-----do-----	5-13-58	700	J	100	2	-----do-----	80	Sd	P1	C	13	N	Sand from 0-39 ft.
36/4W-12L1	Dundland Beach Assoc.	Indian-Michigan Water Development Co.	12-15-39	585	Dr	37	12-0	-----do-----	---	Sd	P1	U	---	N	Yield 17 gpm;
12R1	H. J. Murray	Lakeland Well Drillers	5-20-56	870	J	39	2	S; 5 1/2 ft, 100g, dia 1	---	Sd	P1	U	---	N	Dr 15 ft pumping 20 gpm; well contains water; Ca, L.
13L1	L. Burns	Lakeland Well Drillers	1-2-56	810	J	23	2	S; 80g, dia 1	---	Sd	P1	U	---	---	Gas well; well 1301 at 150 ft; White sand overlain by 19 ft yellow sand; Ca, L.
13N1	D. H. Hooy	Lakeland Well Drillers	1-2-56	820	J	154	3	S; 6 1/2 ft, 80g, dia 2	---	Sd	P1	---	---	---	Bedrock at 10 ft; clay overlain by 8 ft sand.
13P1	Kasch Deluxe Drive-In	-----do-----	6-2-56	820	J	22	2	S; 4ft, 80g, dia 1	---	Sd	P1	---	---	---	Sand from 0-42 ft.
13Q1	R. V. Rannick	-----do-----	Fall 1955	825	Dr	200	4	Oh	150	Sh	D	C	+7	P	Sand from 0-30 ft.
13Q2	-----do-----	-----do-----	Fall 1955	825	J	150	4	Oe	---	---	---	---	---	---	Sand from 0-37 ft.
13Q3	-----do-----	-----do-----	5-20-57	825	J	28	2	S; 4ft, 100g, dia 1	---	Sd	P1	U	---	1-1/2	Sand from 0-30 ft.
14E1	Northern Indiana Public Service	Layno-Northorn Co., Inc.	7-12-33	800	Dr	140	---	---	---	---	---	---	---	---	Sand from 0-37 ft.
15R1	E. E. Meltsna	Lakeland Well Drillers	5-20-57	835	J	42	2	S; 3ft, 60g, dia 1	37	Sd	P1	U	37	D	Sand overlain by 108 ft clay and 30 ft sand; water reported high in chloride and sulfate content.
22F1	Michiana Products Corp.	Moore Bros.	-----do-----	---	Dr	30	---	---	10	Sd	P1	U	10	T	Flowed 1,000 gpm; for waste disposal; bedrock at 185 ft; L.
22F2	-----do-----	-----do-----	5-24-56	---	J	144	2	S; 3 1/2 ft, 60g, dia 1	4	Sd	P1	U	4	T	Flowed 750 gpm; for waste disposal; L.
22F3	N. Wlanski	Lakeland Well Drillers	-----do-----	---	J	144	2	S; 3 1/2 ft, 60g, dia 1	138	Sd	P1	C	---	---	Sand overlain by 10 ft clay.
22L1	Michiana Products Corp.	Moore Bros.	-----do-----	---	Dr	27	---	---	6	Sd	P1	U	6	T	Sand overlain by 119 ft clay.
22L2	American Cynamid Co.	J. P. Miller Artesian Well Co.	10-2-52	615	Dr	295	12	Oe	---	Ls	D	C	+32	---	Sand overlain by 2 ft clay.
22M1	-----do-----	Layno-Northorn Co., Inc.	6-12-51	615	Dr	645	---	---	---	Ls	D, S	C	+22	---	Ca, L. for reported; 70 ft blue clay with very little gravel overlain by 20 ft fine sand and clay.
22N2	-----do-----	-----do-----	3-18-59	615	Dr	163	6	---	8	Sd	P1	U	6	T	Yield about 10 gpm; Ca.
22N3	-----do-----	-----do-----	3-10-59	615	Dr	32	6	---	7	Sd	P1	U	7	T	Yield 16 gpm; L.
22N4	-----do-----	-----do-----	2-26-58	615	Dr	142	6	---	5	Sd	P1	U	5	T	Flowed 2 gpm; pumped 13 gpm; white sand overlain by 150 ft blue and brown sandy clay; Ca.
22N5	-----do-----	-----do-----	2-16-58	615	Dr	36	6	---	9	Sd	P1	U	9	T	---
23J1	L. Szabo	Lakeland Well Drillers	4-25-57	825	J	108	2	S; 3 1/2 ft, 60g	96	Sd	P1	C	8	D	---
23Q1	W. Wornat	Hunts Hoosier Hardware	1852	835	J	80	2	---	---	---	---	---	---	---	---
24R1	F. Siacko	Lakeland Well Drillers	7-25-50	650	J	54	2	S; 4ft, 80g, dia 1	---	Sd	P1	---	0	D	---
25B1	C. Parne	-----do-----	12-21-56	645	J	170	2	S; 3 1/2 ft, 10s1, dia 1 1/2	---	Sd	P1	---	50	P	---
25D2	S. Deck	-----do-----	1-8-57	645	J	141	2	S; 5 1/2 ft, 80g, dia 1	136	Sd	P1	C	10	---	---
25G1	Green Acres Tailor Court	-----do-----	4-5-57	640	Dr	113	4	S; 6 1/2 ft, 60g, dia 2	90	Sd	P1	C	3	N	---
25H1	D. Aornao	Mr. Barnhouse	7-14-54	645	J	62	2	S; 4ft, 40s1, dia 1 1/2	55	Sd	P1	C	3	D	---
25Q1	E. Richter	Hunts Hoosier Hardware	2-55	625	J	164	2	S; 4 1/2 ft, 80g	160	Sd	P1	C	---	D	---

Well No.	Owner	Company	Driller	Date	Depth (ft)	Flow Rate (gpm)	Pressure (psi)	Notes
261A	L. Hinchey Lakeland School	Lakeland Well Drillers E. J. Moore and Son	J Dr	5-11-57	635	835	134 107	2 S; 4ft, 80g, dia 1 S; 10ft, 88g
261B	D. Richard	Mr. Barnthouse	J Dr	6-2-52	620	620	89	2
261C	R. and B. Kelly Peterson Dairy Farm	Westville Well Co. Hunts Hoosier Hardware	J Dr	3-2-56	645	520	54 103	2 S; 4ft S; 4ft, 60g, dia 1
261D	Blockem and Co.	Layne-Northern Co., Inc.	Dr	11-19-45	590	590	38	30 Op; S; 15ft, 80al, dia 8
261E			Dr	10-3-40	590	590	26	34 Op; S; 10ft, 105al, dia 12
261F			Dr	3-30-50	590	590	488	8 Oh
261G			J Dr	11-1-54	590	590	22	21
261H			J Dr	9-9-49	590	590	31	7
261I	Duno Trust Corp.	H. J. Moore and Son	Dr	2-8-56	609	609	43	2
261J	Lido Thoson	Layne-Northern Co., Inc.	Dr	2-2-58	612	612	47	12 S; 20ft, 88g
261K	Car Manufacturer- 1st Co.		Dr	1899	615	615	950	10 Oh
361L	South Shore Railroad	Indiana-Michigan Water Development Co.	Dr	5-1-38	620	620	126	4
3181	Indiana State Prison		Dr	6-30-39	620	620	100	12 S; 15ft, 15al, dia 10
3182			Dr	1929	627	627	382	8
3301	Joy Manufacturing Co.	Mr. Doyle	Dr	3-15-25	627	627	238	8 16
3312			Dr	3-6-57	627	627	80	16
3381			J Dr	9-25-52	620	620	61	2 S; 4ft, 60g
34A1	Mr. Joers	Mr. Barnthouse	J Dr	5-12-54	625	625	19	2 S; 4ft, 60g
34B1	J. R. Sterling		Dr	1-24-56	625	625	17	14 S; 3ft, 60g, dia 1 1/2
34C1	F. Gielow	Westville Well Co.	Dr	12-29-56	625	625	28	2
34D1	C. Wozniak	Lakeland Well Drillers	Dr	8-10-54	630	630	27	2 S; 4ft, 80g, dia 1
34E1	C. Phillips	Hunts Hoosier Hardware	J Dr	4-57	630	630	33	2 S; 4ft, 60g, dia 1
34F1	E. Wackrow		J Dr	630	630	630	30	2 S; 60g
34R2	J. Gebala	Lakeland Well Drillers	J Dr	3-26-57	630	630	28	2 S; 4ft, 60g, dia 1
35E1	Schuske Con- struction Co.	Hunts Hoosier Hardware	J Dr	7-33	620	620	21	2 S; 60g
35E2	Country Cousin Drive-In		J Dr	620	620	620	10	2 S; 4ft, 60g, dia 1
35E3	Phelps and Peck, Inc.	Indiana-Michigan Water Development Co.	Dr	11-3-44	620	620	140	6
36B1	Palsor Dairy		Dr	9-8-45	630	630	188	6 S; 8ft, 25al, dia 5 1/2
36B2			Dr	4-29-50	630	630	197	6 S; 7ft, 40al, dia 5 1/2
36B3	212-Outdoor Theater	L. W. Ackermann	J Dr	1948	635	635	156	3 S; 8ft, 60g

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

Well	Owner	Driller	Data completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone						Remarks	
									Depth to top (feet)	Thickness (feet)	Character	Geologic age	Conditions of occurrence	Water level (feet)		Use
36AW-36B4	212-Outdoor Theater Michigan City	D. J. Moore and Son	About 1957	635	--	171	--	--	--	Sd	P1	---	18	T	---	L.
36E1		L. W. Ackerman	About 1950	630	J	140	2 1/2	40g		Sd, G	P1	C	---	P	---	Discharge measured 3 gpm, 3-12-57; water level measured 5.0 ft above land, 3-12-57; Ca.
36F1	W. Polga	Lakeland Well Drillers	8-14-57	640	J	140	2	5 1/2 ft, 80g, dia 1		Sd	P1	---	---	P	---	Ca.
36F2	K. Fisher	Hunt's Hoopster Hardware	4-4-59	640	J	94	2	5; 4 ft, 60g, dia 1	88	Sd	P1	C	10	D	---	Ca., L.
36G1	E. Pawlowski	Lakeland Well Drillers	12-5-50	640	J	130	2	5; 4 ft, 80g, dia 1		Sd	P1	C	---	D	---	Ca.
36J1	J. H. Phillips	H. Hopp	4-19-52	640	J	149	2	5; 80g, dia 1		Sd	P1	C	---	N	---	Yield 6 gpm.
36J2	Television Association	Lakeland Well Drillers	-----	---	J	180	2	5; 18 ft, 100g, dia 1		Sd	P1	C	50	P	---	Ca.
36P1	Swan Lake Memorial Gardens	Indiana-Michigan Water Development Co.	7-26-54	635	Dt	108	6	5; 20 ft, 12d1	83	Sd	P1	C	25	Ir	---	Dd 20 ft pumping 125 gpm; L.

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

Well 33/3W-10Q1

Type of record: Driller's log.

Altitude: 671 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Organic matter-----	9	9	
Sand, gray-----	33	42	
Clay, blue-----	31	73	
Clay, very soft, blue-----	20	93	
Hardpan-----	3	96	
Sand, yellow, with yellow clay balls-----	10	106	
Sand and gravel-----	10	116	Shale at 116 feet.

Well 33/3W-18M1

Type of record: Driller's log.

Altitude: 668 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand-----	53	53	
Devonian system:			
Upper Devonian series:			
Shale-----	89	142	
Middle Devonian series:			
Lime-----	22	164	

Well 33/3W-19L1

Type of record: Driller's log.

Altitude: 666 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand-----	97	97	
Devonian system:			
Upper Devonian series:			
Shale-----	23	120	
Middle Devonian series:			
Lime-----	17	137	

Well 33/4W-5R1

Type of record: Driller's log.

Altitude: 680 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	1	1	
Sand, medium-----	2	3	
Sand, medium, brown-----	3	6	
Sand, medium, gray-----	21	27	
Devonian system:			
Upper Devonian series:			
Shale-----	8	35	

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

Well 33/4W-8A1

Type of record: Driller's log.

Altitude: 675 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Fill-----	3	3	
Loam, black-----	8	11	
Sand, fine, clean-----	17	28	
Clay, gray-----	28	56	Shale at 56 feet.

Well 33/4W-9N2

Type of record: Driller's log.

Altitude: 675 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	3	3	
Sand, dirty, yellow-----	5	8	
Sand, medium, gray-----	10	18	
Sand, coarse, and fine gravel---	8	26	
Mississippian system:			
Lower Mississippian series?:			
Shale, gray-----	44	70	
Devonian system:			
Upper Devonian series:			
Shale, brown-----	75	145	
Middle Devonian series:			
Limestone, white-----	6	151	
Limestone, soft, brown-----	11	162	
Limestone, hard, white-----	7	169	
Limestone, white-----	9	178	
Limestone, hard, white-----	9	187	
Limestone, soft, brown-----	13	200	
Limestone, soft, white-----	8	208	
Limestone, hard, white-----	13	221	
Limestone, white and blue-----	2	223	
Limestone, soft, yellow-----	21	244	
Limestone, hard, white-----	6	250	

Well 33/4W-14M1

Type of record: Driller's log.

Altitude: 668 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand-----	36	36	
Devonian system:			
Upper Devonian series?:			
Shale-----	97	133	
Devonian and Silurian system; undif- ferentiated:			
Lime-----	389	522	
Lime, cherty-----	65	587	
Lime and shale-----	113	700	

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

Well 33/4W-14M1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Ordovician system:			
Upper Ordovician series:			
Shale and lime-----	51	751	
Shale-----	243	994	
Middle Ordovician series:			
Lime-----	58	1,052	

Well 33/4W-15N1

Type of record: Driller's log. Altitude: 668 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	7	7	
Sand-----	23	30	
Devonian system:			
Upper Devonian series:			
Shale-----	107	137	Contained water with hydrogen sulfide gas.
Middle Devonian series:			
Lime-----	29	166	

Well 33/4W-16D1

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

Quaternary system:			
Recent and Pleistocene series:			
Glacial drift-----	22	22	
Devonian system:			
Upper Devonian series:			
Shale, black-----	103	125	
Devonian and Silurian system; undif- ferentiated:			
Lime-----	560	685	
Ordovician system:			
Upper Ordovician series:			
Shale, blue-----	21	706	
Lime-----	48	754	
Shale, blue-----	4	758	
Lime and shale-----	32	790	
Shale-----	210	1,000	
Middle Ordovician series:			
Lime-----	152	1,152	

Well 33/4W-19G1

Type of record: Driller's log. Altitude: 673 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil and muck-----	4	4	

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

Well 33/4W-19G1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, fine-----	18	22	
Sand, fine to medium, with gravel-----	16	38	

Well 33/4W-19Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Soil-----	1	1	
Clay, sandy-----	2	3	
Sand, fine-----	23	26	
Sand, coarse-----	4	30	
Clay, sandy-----	2	32	
Sand, coarse, with some gravel--	7	39	
Clay-----	6	45	

Well 33/4W-22A1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand-----	40	40	
Devonian system:			
Upper Devonian series:			
Shale-----	83	123	
Devonian and Silurian system; undif- ferentiated:			
Lime-----	515	638	
Lime, cherty-----	46	684	
Lime-----	6	690	
Ordovician system:			
Upper Ordovician series:			
Shale-----	20	710	
Lime-----	3	713	
Record missing-----	25	738	
Shale-----	265	1,003	
Middle Ordovician series:			
Lime-----	131	1,134	

Well 33/4W-24D1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand and clay-----	44	44	

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

Well 33/4W-24D1--Continued

Material	Thick-ness (feet)	Depth (feet)	Remarks
Devonian system:			
Upper Devonian series:			
Shale-----	97	141	
Middle Devonian series:			
Lime-----	44	185	

Well 33/4W-26H1

Type of record: Driller's log. Altitude: 667 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand-----	71	71	
Clay-----	6	77	
Sand-----	11	88	
Devonian system:			
Upper Devonian series:			
Shale-----	32	120	
Middle Devonian series:			
Lime-----	8	128	
Lime, sandy-----	15	143	
Lime-----	31	174	

Well 33/4W-27D1

Type of record: Driller's log. Altitude: 668 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	7	7	
Sand-----	28	35	
Clay-----	18	53	
Sand-----	13	66	
Devonian system:			
Upper Devonian series:			
Shale-----	100	166	
Middle Devonian series:			
Lime-----	31	197	

Well 33/4W-29M1

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

Quaternary system:				
Recent and Pleistocene series:				
Clay-----	8	8		
Sand-----	31	39		
Shale-----	6	45	Clay?	
Sand-----	10	55		
Devonian system:				
Upper Devonian series:				
Shale-----	89	144		

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

Well 33/4W-29M1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Devonian system: Middle Devonian series: Lime-----	35	179	

Well 34/3W-13C1

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

Quaternary system: Recent and Pleistocene series:			
Cinders-----	3	3	
Sand, medium-----	8	11	
Sand, coarse, and some gravel----	24	35	
Sand, coarse, and gravel-----	15	50	
Clay-----	1	51	
Sand, fine to medium-----	4	55	
Sand, fine, muddy-----	25	80	
Clay, gray-----	21	101	

Well 34/3W-13C4

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

Quaternary system: Recent and Pleistocene series:			
Soil, sandy-----	4	4	
Sand, fine, clean-----	3	7	
Sand, fine, muddy-----	3	10	
Gravel, fine, and sand-----	4	14	
Gravel, medium, and sand-----	12	26	
Sand, coarse, and gravel-----	20	46	
Gravel, fine, and sand-----	21	67	
Sand, coarse, and gravel-----	7	74	
Gravel, fine to coarse, with coarse sand-----	2	76	A few clay balls.

Well 34/3W-13D1

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

Quaternary system: Recent and Pleistocene series:			
Sand, medium, yellow-----	9	9	
Sand, coarse, with some gravel--	11	20	
Sand, coarse, and gravel-----	15	35	
Sand, coarse-----	5	40	
Sand, coarse, and gravel-----	10	50	
Sand, coarse-----	10	60	
Sand, medium-----	11	71	
Clay, gray-----	3	74	

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

Well 34/3W-13H1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Muck, black-----	6	6	
Sand, dirty-----	3	9	
Sand, fine-----	8	17	
Sand, medium-----	21	38	
Gravel, fine, and sand-----	7	45	
Sand, fine-----	11	56	
Clay-----	19	75	
Sand, fine-----	7	82	
Clay, tough-----	13	95	
Sand, fine, and clay-----	8	103	
Clay, tough-----	2	105	
Sand, fine, and clay-----	2	107	
Clay, tough-----	2	109	
Clay, sandy, with some shaly gravel-----	4	113	
Devonian system:			
Upper Devonian series:			
Shale, brown-----	7	120	

Well 34/4W-4F1

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

Quaternary system:			
Recent and Pleistocene series:			
Fill-----	2	2	
Soil and sand-----	6	8	
Gravel, fine, gray, and sand----	2	10	
Sand, medium, gray-----	41	51	
Sand, coarse, gray-----	4	55	
Sand, medium, gray-----	28	83	
Devonian system:			
Upper Devonian series:			
Shale, blue-----	55	138	
Clay, hard, black-----	7	145	Shale.
Shale, blue and black-----	7	152	
Shale, black-----	3	155	
Shale, blue and black-----	8	163	
Clay, hard-----	10	173	Shale.
Shale, black-----	7	180	
Clay, hard, black-----	8	188	Shale.
Shale, black-----	2	190	
Limestone-----	1	191	
Shale, black-----	36	227	

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

Well 34/4W-7K2

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

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	1	1	
Clay, sandy-----	8	9	
Gravel and sand-----	11	20	
Sand, medium-----	40	60	
Sand, fine-----	12	72	
Devonian system:			
Upper Devonian series:			
Shale, blue-----	3	75	

Well 35/1W-17R1

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

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	2	2	
Clay, blue, and sand-----	6	8	
Sand and gravel-----	22	30	
Sand-----	10	40	

Well 35/2W-1N1

Type of record: Driller's log. Altitude: 689 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Muck and sand-----	3	3	
Sand-----	20	23	
Clay-----	12	35	
Gravel-----	1	36	
Clay-----	12	48	
Sand, coarse, clean-----	20	68	
Sand, fine, muddy-----	7	75	

Well 35/2W-3A2

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

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand-----	20	20	
Sand, coarse-----	10	30	
Sand, medium-----	18	48	
Sand, fine-----	14	62	
Sand, medium-----	22	84	Clay at 84 feet.

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

Well 35/2W-3C2

Type of record: Driller's log.

Altitude: 730 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	2	2	
Sand, dirty-----	16	18	
Sand, coarse-----	27	45	
Sand, medium-----	23	68	

Well 35/2W-3D1

Type of record: Driller's log.

Altitude: 736 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil-----	4	4	
Sand, dirty-----	15	19	
Sand, fine, yellow-----	12	31	
Sand, medium, gray-----	14	45	
Sand, medium to coarse-----	18	63	
Clay-----	22	85	

Well 35/2W-3K1

Type of record: Driller's log.

Altitude: 728 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	2	2	
Sand and clay-----	4	6	
Sand, coarse-----	44	50	
Sand, medium-----	37	87	Clay and fine sand at 87 feet.

Well 35/2W-4M2

Type of record: Driller's log.

Altitude: 730 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	2	2	
Sand, medium-----	28	30	
Sand, coarse-----	25	55	
Sand, medium-----	18	73	
Clay-----	3	76	

Well 35/2W-4M3

Type of record: Driller's log.

Altitude: 730 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	5	5	
Sand, yellow-----	28	33	
Sand, medium, yellow-----	6	39	

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

Well 35/2W-4M3--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, coarse, yellow-----	5	44	
Sand, coarse, gray-----	15	59	
Sand, medium to coarse, gray----	4	63	
Sand, fine to medium-----	7	70	
Sand, fine-----	6	76	

Well 35/2W-5D2

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	1	1	
Sand, muddy-----	9	10	
Sand, coarse-----	30	40	
Sand, medium-----	44	84	
Clay-----	5	89	

Well 35/2W-5L1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay and sand-----	8	8	
Sand, medium, yellow-----	24	32	
Sand, fine-----	12	44	
Sand, coarse-----	8	52	
Sand, medium-----	20	72	Clay at 72 feet.

Well 35/2W-7J2

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

Quaternary system:			
Recent and Pleistocene series:			
Soil and dirty sand-----	8	8	
Sand, yellow-----	19	27	
Sand, yellow-----	8	35	
Sand, coarse-----	20	55	
Sand, medium-----	40	95	
Sand, fine-----	2	97	Clay at 97 feet.

Well 35/2W-8G1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, sandy-----	7	7	
Sand, medium-----	41	48	
Sand, fine-----	5	53	

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

Well 35/2W-8G1--Continued

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, medium-----	19	72	
Sand, fine-----	9	81	

Well 35/2W-10E1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay and sand-----	4	4	
Sand, medium-----	56	60	
Sand, coarse-----	20	80	
Sand, coarse, and gravel-----	7	87	
Sand, medium-----	9	96	

Well 35/2W-11D1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, yellow-----	10	10	
Sand, coarse-----	15	25	
Sand, fine-----	29	54	Clay at 54 feet.

Well 35/2W-11H1

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

Quaternary system:			
Recent and Pleistocene series:			
Muck-----	2	2	
Muck and sand-----	4	6	
Sand, fine-----	6	12	
Gravel and sand-----	2	14	
Clay-----	22	36	
Sand, medium-----	10	46	
Clay-----	18	64	
Sand, fine-----	26	90	Clay at 90 feet.

Well 35/2W-12A1

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

Quaternary system:			
Recent and Pleistocene series:			
Muck-----	4	4	
Sand, fine-----	12	16	
Sand, coarse-----	4	20	
Sand, medium-----	5	25	
Sand, coarse-----	5	30	
Sand, fine-----	15	45	

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

Well 35/2W-12A1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, medium-----	10	55	
Sand, coarse-----	4	59	
Clay-----	9	68	
Sand, fine-----	27	95	
Sand with clay strips-----	9	104	

Well 35/2W-12A3

Type of record: Driller's log.

Altitude: 685 feet.

Quaternary system:			
Recent and Pleistocene series:			
Muck and marl-----	5	5	
Sand, fine-----	11	16	
Sand, medium-----	9	25	
Sand, coarse-----	13	38	
Sand, fine-----	27	65	
Sand, fine, muddy-----	7	72	
Clay-----	6	78	
Sand, fine-----	17	95	
Sand, fine, muddy-----	9	104	

Well 35/2W-12H1

Type of record: Driller's log.

Altitude: 686 feet.

Quaternary system:			
Recent and Pleistocene series:			
Muck-----	5	5	
Sand, fine-----	9	14	
Sand, coarse-----	21	35	
Sand, fine-----	18	53	
Sand, coarse-----	11	64	
Clay with sand strips-----	4	68	
Clay-----	7	75	
Sand, fine-----	7	82	
Clay and muddy sand-----	13	95	Clay at 95 feet.

Well 35/2W-12H2

Type of record: Driller's log.

Altitude: 686 feet.

Quaternary system:			
Recent and Pleistocene series:			
Muck-----	3	3	
Clay-----	2	5	
Sand and marl-----	3	8	
Sand-----	3	11	
Gravel and sand-----	41	52	
Gravel, large-----	4	56	
Clay-----	4	60	

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

Well 35/2W-12H2--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, muddy-----	4	64	
Sand, fine, clean-----	8	72	
Sand, fine, becoming muddy-----	6	78	

Well 35/2W-16B1

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	1	1	
Sand, coarse-----	34	35	
Sand, medium-----	14	49	
Clay, blue-----	11	60	
Sand, medium-----	4	64	
Sand, fine-----	17	81	

Well 35/2W-18N2

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

Quaternary system:			
Recent and Pleistocene series:			
Soil, sandy-----	21	21	
Sand, brown-----	10	31	
Sand, light-brown-----	18	49	
Sand, gray-----	15	64	
Sand, fine, and gravel-----	10	74	
Gravel and clay-----	5	79	
Sand, muddy-----	11	90	Clay at 90 feet.

Well 35/2W-18N3

Type of record: Driller's log. Altitude: 723 feet.

Quaternary system:			
Recent and Pleistocene series:			
Soil, sandy-----	19	19	
Sand, light-brown-----	29	48	
Sand, clean, gray-----	21	69	
Gravel and clay-----	5	74	
Sand-----	10	84	
Sand, fine, clean-----	5	89	
Sand-----	11	100	
Sand, fine, clean-----	2	102	Clay at 102 feet.

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

Well 35/2W-30G1

Type of record: Driller's log.

Altitude: 691 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, yellow, and clay-----	20	20	
Sand, fine, gray-----	5	25	
Clay, blue-----	2	27	
Sand, fine, and clay-----	14	41	
Clay-----	47	88	
Sand, fine, and clay-----	43	131	
Clay with brown shale-----	69	200	
Devonian system:			
Upper Devonian series:			
Shale, black-----	20	220	
Shale, blue-----	4	224	
Shale, brown-----	28	252	
Middle Devonian series:			
Lime, brown-----	3	255	
Limestone, white-----	4	259	
Limestone, brown-----	39	298	

Well 35/4W-31P1

Type of record: Driller's log.

Altitude: 738 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	1	1	
Sand, fine-----	17	18	
Sand, fine, white-----	79	97	
Mississippian system?:			
Lower Mississippian series?:			
Shale, gray-----	87	184	

Well 36/1W-4Q1

Type of record: Driller's log.

Altitude: 700 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	17	17	
Quicksand, yellow-----	175	192	
Mud, soft, gray-----	8	200	
Devonian system:			
Upper Devonian series:			
Shale, dark to gray-brown-----	50	250	
Devonian and Silurian system; undif- ferentiated:			
Limestone, fossiliferous, porous, buff to brown, with pyrite----	60	310	
Anhydrite, white, and gray limestone-----	110	420	

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

Well 36/1W-4Q1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Devonian and Silurian system; undifferentiated:			
Dolomite, buff, with some anhydrite-----	70	490	
Dolomite, cherty, blue to light-buff-----	10	500	
Dolomite, hard, cherty, blue-gray-----	10	510	
Dolomite, shaly, blue-gray, with pyrite-----	40	550	
Dolomite, granular, light-buff--	30	580	
Dolomite, bituminous, brown to buff-----	10	590	
Dolomite, granular, bluish-white	10	600	
Dolomite, granular, yellowish-white-----	75	675	

Well 36/1W-16B1

Type of record: Driller's log.

Altitude: 695 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay and sand-----	10	10	
Clay, blue-----	10	20	
Sand-----	2	22	
Gravel, medium-----	4	26	

Well 36/1W-18K1

Type of record: Driller's log.

Altitude: 705 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown-----	10	10	
Sand, fine, brown-----	8	18	
Sand, fine to coarse-----	5	23	
Sand, coarse, brown-----	5	28	

Well 36/1W-33H1

Type of record: Driller's log.

Altitude: 687 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand-----	6	6	
Shale, blue-----	45	51	Shale fragments (gravel).
Quicksand, gray-----	68	119	
Clay, yellow, and gravel-----	32	151	