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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GEOLOGISTS, U. S. GEOLOGICAL SURVEY

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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

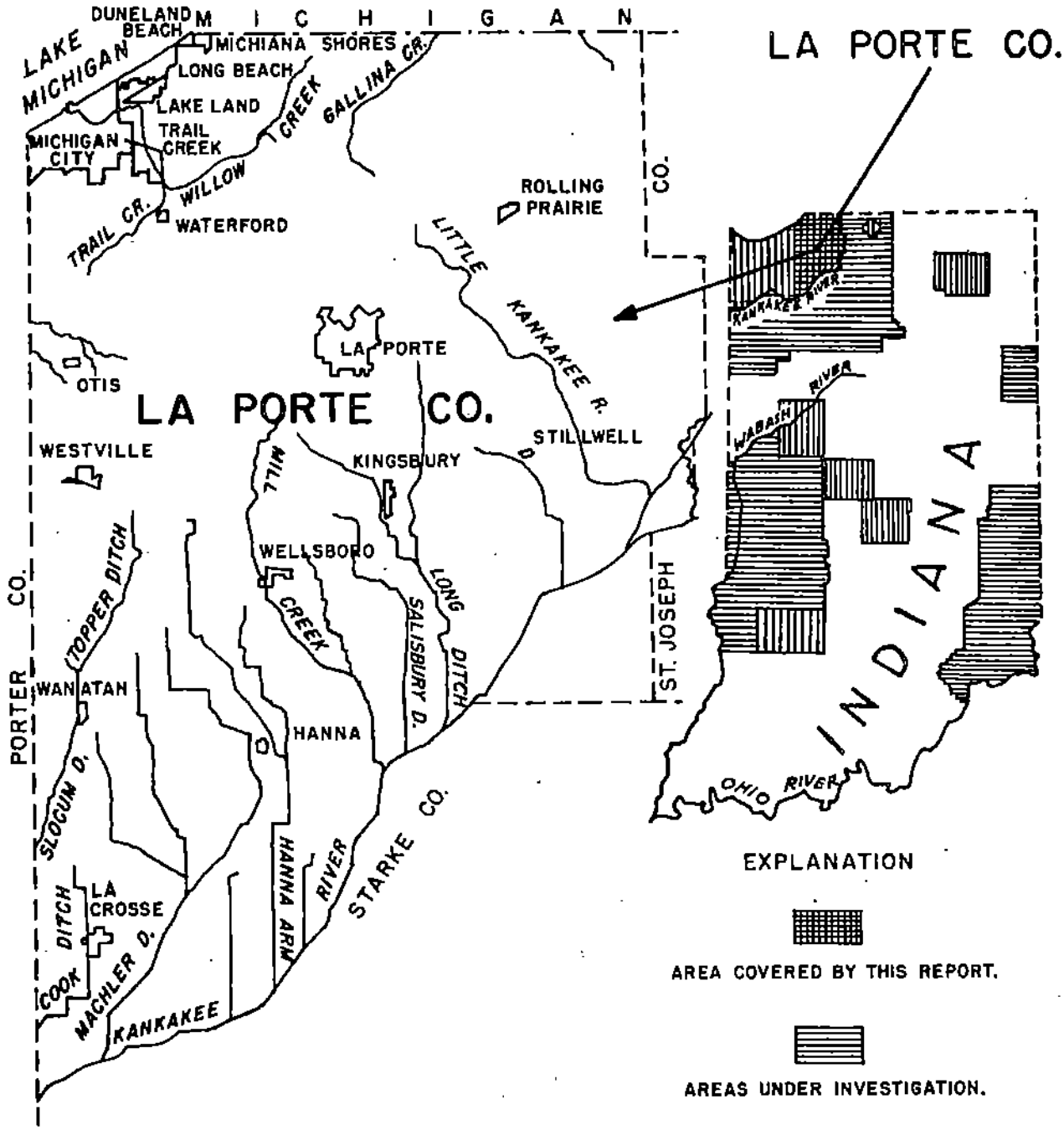
An investigation of the ground-water resources and geology of ten counties in northwestern Indiana has been in progress since June 1954. This investigation is being made by the U. S. Geological Survey in cooperation with the Division of Water Resources, Indiana Department of Conservation, as a part of 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 NE¼SW¼ sec. 23, T. 36 N., R. 2 W.

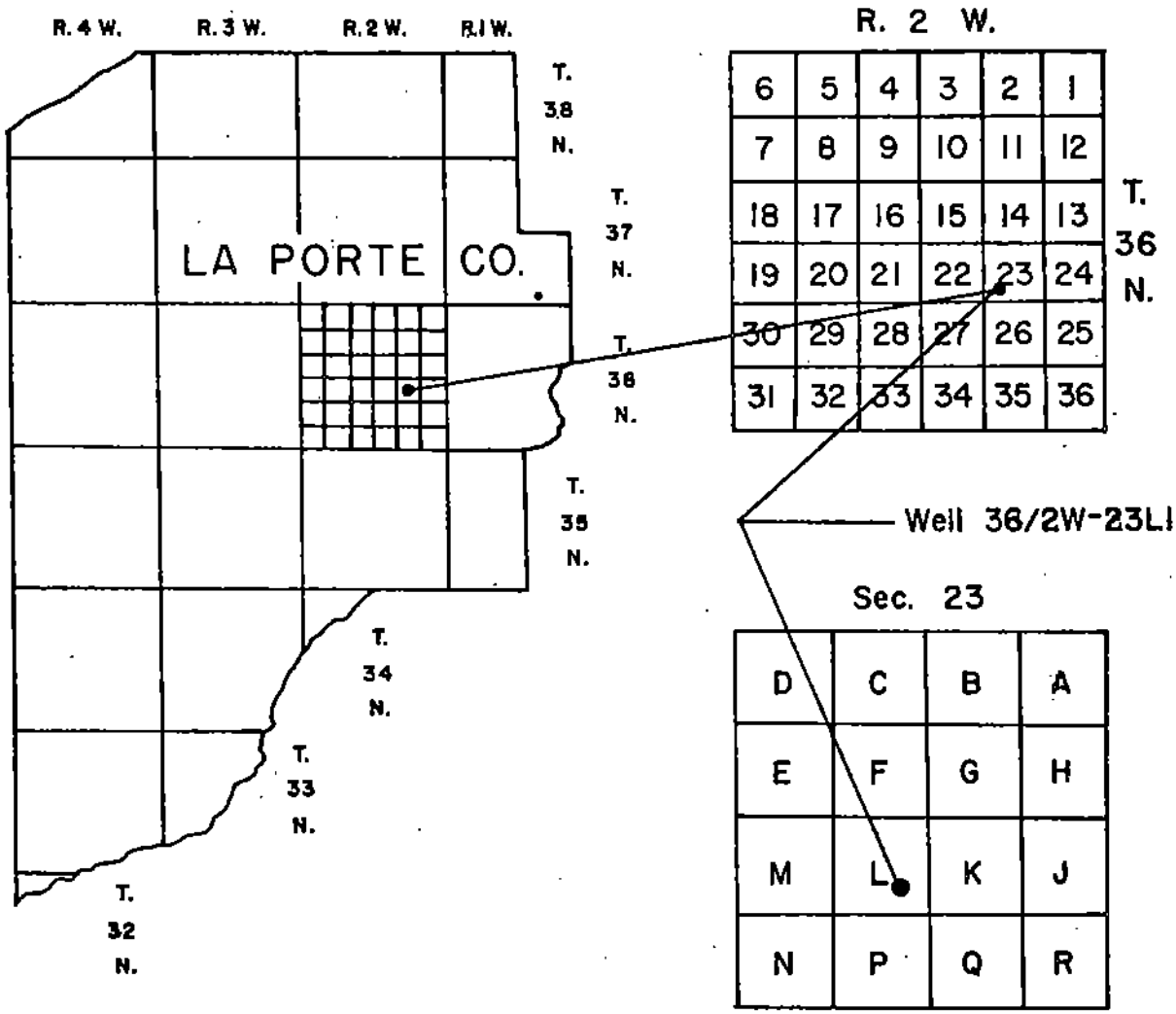


FIGURE 2.--Sketch showing well-numbering system.

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	>0.08	>2	>80	-------
Very coarse sand	.04 - .08	1 - 2	40 - 80	<20
Coarse sand	.02 - .04	.50 - 1	20 - 40	40 - 20
Medium sand	.01 - .02	.25 - .50	10 - 20	60 - 40
Fine sand	.005 - .01	.125 - .25	6 - 10	90 - 60
Very fine sand	.002 - .005	.062 - .125	-------	-------
Silt	.00015 - .002	.004 - .062	-------	-------
Clay	<.00015	<.004	-------	-------

SUMMARY

Preliminary evaluation of the basic data shows that adequate quantities of ground water are available 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.

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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. 8.
Type of well: B, bored; Dm, driven; Dr, drilled; Du, dug; J, jetted.
Finish: dia, diameter in inches; G, gauze size; Gp, gravel pack; Oe, open end; Oh, open hole; S, screen; sl, slot size.
Character: G, gravel; Ls, limestone; Sd, sand; Sh, shale; Ss sandstone.
Geologic age: D, Devonian; M, Mississippian; Pl, Pleistocene; S, Silurian.
Conditions of occurrence: C, confined; U, unconfined; see p. 7 for definition of terms.

Water level: In feet below land-surface datum on date of completion of well, except where otherwise noted.
Use: Ac, air conditioning; D, domestic; De, destroyed; I, industrial; Ir, irrigation; N, not used; O, observation; P, public supply; R, railroad; S, stock; T, test.
Type of pump and horsepower: J, jet; L, lift; P, pitcher; S, submersible; T, turbine; numeral indicates rated horsepower of electric motor.
Remarks: Ca, field chemical analysis in table 4; dd, drawdown; G, gamma-ray log available for inspection; gpm, gallons per minute; L, log of well included in table 3; lsd, land-surface datum; S, samples available for inspection; temp, temperature in degrees Fahrenheit.

Well	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone: Depth to top (feet)	Water-bearing zone: Thickness (feet)	Water-bearing zone: Character	Water-bearing zone: Geologic age	Water-bearing zone: Conditions of occurrence	Water level (feet)	Use	Type of pump and horsepower	Remarks
33/3W-10Q1	State of Indiana	Indiana-Michigan Water Development Co.	6-23-34	671	Dr	116	6	S; 13ft. 25sl	98	20	Sd,G	Pl	C	10	O	------	Observation well La Porte 2; water level measured 5.89 ft below lsd, 7-2-42; G, L.
18M1	M., J., and A. Clark	----------	10-23-53	668	Dr	164	8½	----------	---	---	Sd	Pl	----	---	---	------	Oil test; bedrock at 53 ft; L.
19L1	L. and M. Pick	----------	11- 8-53	666	Dr	137	---	----------	---	---	Sd	Pl	----	---	---	------	Oil test; bedrock at 97 ft; L.
33/4W- 5R1	N. P. Sheely	Layne-Northern Co., Inc.	3-57	680	Dr	35	6	S	5	22	Sd	Pl	U	5	---	------	Bedrock at 27 ft; L.
8A1	Chesapeake and Ohio Railway	W. Zehring	10-10-47	675	Dr	28	6	S; 7ft, 10sl	6	22	Sd	Pl	U	6	P	J1/3	Dd 3 ft pumping 15 gpm; bedrock at 56 ft; L.
8P1	Town of La Crosse	Layne-Northern Co., Inc.	11-10-40	675	Dr	28	---	----------	8	20	Sd	Pl	U	8	T	------	See log well 8A1.
9N1	Trustees, Dewey Township	---------do---------	8-21-40	675	Dr	55	---	----------	---	---	Sd	Pl	U	---	T	------	Bedrock at 28 ft; see log well 9N2.
9N2	-------do--------	---------do---------	1-14-41	675	Dr	250	10-6	Oh	145	105	Ls	D	C	17	N	------	Dd 3 ft pumping 10 gpm; bedrock at 20 ft; L.
14B1	S. Gorski	Westville Well Co.	1-24-56	671	J	28	2	S; 4½ft	---	---	Sd	Pl	U	---	D	J1/4	Ca.
14G1	-------do--------	----------	10-25-53	668	Dr	176	8½	----------	---	---	Sd	Pl	U	---	---	------	Oil test; bedrock at 50 ft; see log well 14M1.
14M1	L. and S. Zahn	----------	11-28-53	668	Dr	1,052	8½	----------	---	---	Sd	Pl	U	---	---	------	Oil test; L.
14N1	D. Zahn	----------	7-17-42	670	Dr	130	5½	----------	---	---	Sd	Pl	U	---	---	------	Oil test; bedrock at 34 ft; see log well 14M1.
15N1	A. and I. Stonecipher	----------	10-26-53	668	Dr	166	8½	----------	---	---	Sd	Pl	U	---	---	------	Oil test; bedrock at 30 ft; L.
18D1	J. Gorski	J. West	11-12-54	674	Dr	1,152	10-5½	----------	---	---	-----	---	----	---	---	------	Oil test; bedrock at 22 ft; L.
17C1	Town of La Crosse	Layne-Northern Co., Inc.	11-15-46	674	Dr	26	---	----------	7	19	Sd	Pl	U	7	T	------	Clean sand overlain by 10 ft dirty sand and gravel.
19G1	D. Knapp	---------do---------	3-22-57	673	Dr	38	34	Gp; S; 10ft, 80sl, dia 16	4	34	Sd,G	Pl	U	4	Ir	T	Dd 31 ft pumping 680 gpm; L.
19H1	K. Knapp	---------do---------	--------	670	Dr	-----	---	S	---	---	Sd	Pl	U	---	D,S	------	Ca.
19Q1	D. Knapp	---------do---------	12-17-56	670	Dr	45	8	----------	8	31	Sd,G	Pl	U	8	T	------	L.
20D1	T. Collins	----------	--------	671	J	21	2	S; 3ft, 60g, dia 1	---	---	Sd	Pl	U	5	S	------	
20D2	-------do--------	Westville Well Co.	1956	671	J	32	4	S; 10½ft, dia 3	6	26	Sd	Pl	U	---	---	------	For fire protection; sand from 0-32 ft; water level measured 6.31 ft below lsd, 9-4-57.
22A1	N. Miller	----------	11-18-53	670	Dr	1,134	8½	----------	---	---	Sd	Pl	U	---	---	------	Oil test; bedrock at 40 ft; L.
24D1	H. and D. Holinger	----------	11-15-53	670	Dr	185	---	----------	---	---	-----	---	----	---	---	------	Oil test; bedrock at 44 ft; L.
26M1	V. Sikora	----------	10-20-53	667	Dr	174	---	----------	---	---	Sd	Pl	----	---	---	------	Oil test; bedrock at 88 ft; L.
27D1	R. and M. Alt	----------	10-19-53	668	Dr	197	---	----------	---	---	Sd	Pl	----	---	---	------	Oil test; bedrock at 66 ft; L.
29N1	O. and P. Fritz	----------	10-17-53	665	Dr	179	---	----------	---	---	Sd	Pl	----	---	---	------	Oil test; bedrock at 55 ft; L.
34/3W-13C1	Pennsylvania Railroad	Layne-Northern Co., Inc.	5-18-39	680	Dr	101	---	----------	9	71	Sd,G	Pl	U	9	T	------	L.
13C2	-------do--------	---------do---------	6-12-39	680	Dr	74	---	----------	6	68	Sd,G	Pl	U	6	T	------	See log well 13C4.
13C3	-------do--------	---------do---------	9- 7-40	680	Dr	80	---	----------	---	---	Sd,G	Pl	U	---	T	------	Do.

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: Depth to top (feet)	Water-bearing zone: Thickness (feet)	Water-bearing zone: Character	Water-bearing zone: Geologic age	Water-bearing zone: Conditions of occurrence	Water level (feet)	Use	Type of pump and horsepower	Remarks
34/3W-13C4	Pennsylvania Railroad	Layne-Northern Co., Inc.	10- 3-40	680	Dr	76	8	----------	6	70	Sd,G	Pl	U	6	O	-------	Observation well La Porte 7; water level measured 7.4 ft below lsd, 7-12-56; L.
13D1	-------do--------	---------do---------	5-20-39	680	Dr	74	---	----------	5	66	Sd,G	Pl	U	5	T	-------	L.
13D2	-------do--------	---------do---------	6-17-39	680	Dr	60	---	----------	4	56	Sd,G	Pl	U	4	T	-------	See log well 13D1.
13H1	-------do--------	---------do---------	2-10-36	675	Dr	120	---	----------	28	28	Sd,G	Pl	U	28	T	-------	Bedrock at 113 ft; L.
34/4W- 4D1	Kaiser Aluminum and Chemical Corp.	---------do---------	2-23-56	733	Dr	82	8	----------	5	75	Sd	Pl	U	5	T	-------	See log well 4F1.
4D2	-------do--------	---------do---------	5-24-26	733	Dr	79	26	Gp; S; 20ft, 30sl, dia 10	2	78	Sd	Pl	U	2	I	T15	Dd 24.5 ft pumping 340 gpm; see log well 4F1; Ca.
4F1	Pennsylvania Railroad	---------do---------	1- 3-30	734	Dr	227	---	----------	8	77	Sd	Pl	U	6	T	-------	Bedrock, at 83 ft, yielded 5 gpm with 60 ft dd; L.
4F2	-------do--------	---------do---------	12- 3-36	734	Dr	84	30	Gp; S; 20ft, 105sl, dia 10	9	75	Sd	Pl	U	9	N	T	Dd 9 ft pumping 200 gpm; see log well 4F1.
7K1	Nickel Plate Railroad	---------do---------	7-24-54	722	Dr	70	12	----------	9	61	Sd	Pl	C	4	R	T10	See log well 7K2.
7K2	-------do--------	---------do---------	11-30-54	722	Dr	75	---	----------	9	63	Sd,G	Pl	----	---	T	-------	Bedrock at 72 ft; L.
20L1	M. Tidholm	T. Urynlak	1952	708	Dr	30	4	S; 10ft, 14sl	7	33	Sd,G	Pl	U	7	Ir	-------	
35/1W- 4Q1	H. Smith	Sriver Drilling Co.	--------	687	J	37	2	S; 3½ft, 10sl, dia 1½	---	---	G	Pl	----	6	---	-------	
16D1	Mr. Place	Shell Oil Co.	1941	689	Dr	248	---	----------	---	---	-----	--	----	---	---	-------	Oil test; bedrock at 150 ft; 88 ft shale underlain by 8 ft dolomite.
17R1	Indiana State Highway Department	Sriver Drilling Co.	5-17-56	690	Dr	40	4	S; 4½ft, 80g, dia 2	9	31	Sd,G	Pl	U	9	P	P	Ca, L.
35/2W- 1N1	U. S. Government	Layne-Northern Co., Inc.	1-13-41	689	Dr	68	8	S; 20ft, 12sl, dia 7½	48	27	Sd	Pl	C	5	---	-------	Dd 9 ft after 5 hr pumping 50 gpm; temp 52; L.
3A1	-------do--------	---------do---------	9-22-41	730	Dr	86	---	----------	20	66	Sd	Pl	U	20	---	-------	See log well 3A2.
3A2	-------do--------	---------do---------	11-12-41	730	Dr	84	34	Gp; S; 20ft, 105sl, dia 12	20	64	Sd	Pl	U	20	---	-------	Dd 35 ft after 7.5 hr pumping 870 gpm; temp 52; L.
3C1	-------do--------	---------do---------	5- 3-41	730	Dr	88	---	----------	18	50	Sd	Pl	U	18	---	-------	See log well 3C2.
3C2	-------do--------	---------do---------	5-29-41	730	Dr	88	34	Gp; S; 15ft, 105sl, dia 12	18	50	Sd	Pl	U	18	---	-------	Dd 26 ft pumping 850 gpm; L.
3D1	-------do--------	---------do---------	12- 7-40	736	Dr	63	10	S; 20ft, 12sl, dia 9	19	44	Sd	Pl	U	19	---	-------	Dd 4 ft after 5 hr pumping 100 gpm; Ca, L.
3K1	-------do--------	---------do---------	2-19-41	728	Dr	84	8	S; 20ft, 12sl, dia 7½	20	67	Sd	Pl	U	20	---	-------	Dd 3 ft after 5 hr pumping 55 gpm; temp 52; L.
4L1	-------do--------	---------do---------	2- 5-41	730	Dr	72	8	S; 20ft, 20sl, dia 7½	17	55	Sd	Pl	U	17	---	-------	Dd 4 ft after 5 hr pumping 55 gpm; temp 52; see log well 4M2.
4M1	-------do--------	---------do---------	5-23-41	730	Dr	75	---	----------	---	---	Sd	Pl	U	---	---	-------	See log well 4M2.
4M2	-------do--------	---------do---------	9-11-41	730	Dr	76	34	Gp; S; 25ft, 105sl, dia 12	16	57	Sd	Pl	U	16	---	-------	Dd 33.5 ft after 8 hr pumping 840 gpm; temp 52; L.
4M3	-------do--------	---------do---------	4- 4-45	730	Dr	76	---	----------	---	---	Sd	Pl	U	---	---	-------	L.
5D1	-------do--------	---------do---------	5-26-41	727	Dr	89	---	----------	14	70	Sd	Pl	U	14	---	-------	See log well 5D2.
5D2	-------do--------	---------do---------	6-25-41	727	Dr	87	34	Gp; S; 15ft, 105sl, dia 12	14	70	Sd	Pl	U	14	---	-------	Dd 35 ft after 8 hr pumping 880 gpm; temp 52; L.
5J1	-------do--------	---------do---------	2-10-41	732	Dr	64	8	S; 20ft, 20sl, dia 7½	18	47	Sd	Pl	U	18	---	-------	Dd 2.5 ft after 5 hr pumping 55 gpm; temp 52; see log well 5L1.
5L1	-------do--------	---------do---------	1-28-41	730	Dr	72	8	-------do---------	20	52	Sd	Pl	U	20	---	-------	Dd 2.5 ft after 5 hr pumping 55 gpm; temp 52; L.
7J1	-------do--------	---------do---------	9-19-41	730	Dr	97	---	----------	20	77	Sd	Pl	U	20	---	-------	See log well 7J2.
7J2	-------do--------	---------do---------	10-17-41	730	Dr	95	34	Gp; S; 20ft, dia 12	27	70	Sd	Pl	U	27	---	-------	Dd 24 ft pumping 880 gpm; L.
8G1	-------do--------	---------do---------	1-24-41	726	Dr	72	8	S; 20ft, 20sl, dia 7½	20	61	Sd	Pl	U	20	---	-------	Dd 2 ft after 5.5 hr pumping 55 gpm; temp 52; L.
10E1	-------do--------	---------do---------	1-30-41	720	Dr	88	8	S; 20ft, 12sl, dia 7½	19	77	Sd,G	Pl	U	19	---	-------	Dd 2 ft after 5 hr pumping 55 gpm; temp 52; L.

35/2W-11D1	U. S. Government	Layne-Northern Co., Inc.	11-21-41	710	Dr	54	4	S; 7ft, 12sl, dia 3½	9	45	Sd	Pl	U	9	---	------	Dd 10 ft pumping 17 gpm; L.
11N1	-------do---------	---------do---------	1- 8-41	688	Dr	90	8	S; 20ft, 12sl dia 7½	---	---	Sd	Pl	C	4	O	------	Dd 12 ft after 5 hr pumping 50 gpm; observation well La Porte 4; water level measured 1.80 ft below lsd, 11-4-55; L.
12A1	-------do---------	---------do---------	5-16-41	685	Dr	104	---	----------	---	---	Sd	Pl	C,U	4	---	------	L.
12A2	-------do---------	---------do---------	7-14-41	685	Dr	50	34	Gp; S; 15ft, 105sl, dia 12	4	52	Sd,G	Pl	U	4	---	------	Dd 14 ft pumping 1,000 gpm; see log well 12A1.
12A3	-------do---------	---------do---------	5-13-41	685	Dr	104	---	----------	---	---	Sd	Pl	C,U	5	---	------	L.
12H1	-------do---------	---------do---------	5- 9-41	680	Dr	95	---	----------	5	59	Sd	Pl	U	5	---	------	L.
12H2	-------do---------	---------do---------	9-19-41	680	Dr	78	8	S; 12ft, 12sl, dia 7½	60	18	Sd	Pl	C	4	---	------	Dd 19.5 ft pumping 55 gpm; L.
16B1	-------do---------	---------do---------	1-18-41	715	Dr	40	8	S; 20ft, 12sl, dia 7½	18	31	Sd	Pl	U	18	---	------	Dd 2.5 ft after 5 hr pumping 55 gpm; L.
16C1	-------do---------	---------do---------	1-31-41	716	Dr	50	2½	S; 7ft, 60g, dia 1¼	17	33	Sd	Pl	U	17	---	------	Yield 5 gpm; sand from 0-50 ft.
16N1	Kingsford Corp.	---------do---------	5-13-42	721	Dr	101	---	----------	19	82	Sd,G	Pl	U	10	T	------	See log well 18N3.
18N2	-------do---------	---------do---------	5-15-42	718	Dr	90	---	----------	19	71	Sd,G	Pl	U	19	T	------	L.
18N3	-------do---------	---------do---------	5-21-42	723	Dr	102	---	----------	17	85	Sd	Pl	U	17	T	------	L.
18N4	-------do---------	---------do---------	5-26-42	723	Dr	100	---	----------	---	---	Sd	Pl	U	---	T	------	See log well 18N3.
18N5	-------do---------	---------do---------	6-24-42	724	Dr	87	---	----------	19	68	Sd,G	Pl	U	19	T	------	See log well 18N2.
18N6	-------do---------	---------do---------	8-30-42	725	Dr	70	34	Gp; S; 20ft, dia 12	20	50	Sd	Pl	U	20	P	T	Dd 25.5 ft after 8.5 hr pumping 810 gpm; temp 51; see log well 18N2.
18N7	-------do---------	---------do---------	10- 3-42	723	Dr	74	34	Gp; S; 20ft, 105sl, dia 12	21	53	Sd	Pl	U	21	P	T	Dd 33 ft after 8.5 hr pumping 740 gpm; temp 51; see log well 18N3.
18N8	-------do---------	---------do---------	10-24-42	724	Dr	66	34	-------do---------	20	46	Sd	Pl	U	20	P	T	Dd 21 ft after 8 hr pumping 760 gpm; temp 51; see log well 18N2.
21N1	Mr. Zahrn	Shell Oil Co.	1941	687	Dr	300	---	----------	---	---	-----	--	----	---	---	------	Oil test; bedrock at 140 ft; 130 ft shale underlain by 5 ft limestone and 25 ft dolomite.
30G1	R. Gumz	Indiana-Michigan Water Development Co.	3-20-47	691	Dr	298	6	----------	---	---	Sd	Pl	----	---	T	------	Bedrock at 200 ft; L.
30G2	-------do---------	---------do---------	3-26-47	689	Dr	24	6	S; 6ft, 16sl, dia 5½	5	22	Sd	Pl	U	5	I	------	Dd 4 ft pumping 55 gpm; see log well 30G1.
35/3W-10N1	Munding Dairy Co.	----------	About 1930	746	Dr	50	8	S	---	---	Sd	Pl	----	---	I	L5	
13B1	F. Janisch	Westville Well Co.	--------	720	J	40	4	S; 20ft	---	---	Sd	Pl	----	8	N	------	
35/4W-31P1	Indiana State Highway Department	W. Foley	3-12-57	738	Dr	184	4	Sh	97	67	Sh	M?	C	15	P	P	Dd 133 ft pumping 6 gpm; Ca, L.
36/1W- 4Q1	J. Siddlos	M. J. Mauck	9-21-31	700	Dr	875	10	----------	17	175	Sd	Pl	U	17	---	------	Oil test; bedrock at 200 ft; L.
4Q2	-------do---------	---------do---------	4-12-32	700	Dr	1,738	10-6¼	----------	---	---	-----	--	----	---	---	------	Oil test; bedrock at 188 ft.
5N1	N. Wiltfong	Hunts Hoosier Hardware	1- 4-57	752	J	50	2	S; 4½ft, 60g, dia 1	33	17	Sd	Pl	U	33	D	------	Yield 13 gpm; brown sand from 0-50 ft; Ca.
10B1	Mill Creek Methodist Church	E. Brooker	3-14-56	695	J	26	2	S; 3½ft, 60g, dia 1¼	20	6	G,Sd	Pl	C	7	P	------	L.
18K1	C. E. Adams	Hunts Hoosier Hardware	7- 3-59	705	J	28	2	S; 4ft, 60g, dia 1	10	18	Sd	Pl	U	10	D	------	Ca, L.
21G1	Mr. Knowlton	Shell Oil Co.	1941	691	Dr	330	---	----------	---	---	-----	--	----	---	---	------	Oil test; bedrock at 123 ft; 177 ft shale underlain by 17 ft limestone and 13 ft dolomite.
23B1	R. Singleton	Sriver Drilling Co.	1-28-47	692	J	42	2	S; 3ft, 60g, dia 1¼	---	---	Sd,G	Pl	----	6	D	J1/2	Ca.
27N1	Mr. Nowland	Shell Oil Co.	1941	689	Dr	300	---	----------	---	---	-----	--	----	---	---	------	Oil test; bedrock at 120 ft; 150 ft shale underlain by 16 ft limestone and 14 ft dolomite, water-bearing; water had hydrogen sulfide gas.
30M1	Mr. Cigon	---------do---------	1941	698	Dr	285	---	----------	---	---	-----	--	----	---	---	------	Oil test; bedrock at 150 ft; 115 ft shale underlain by 14 ft dolomite.
33N1	J. E. Short, Jr.	----------	10-20-41	687	Dr	1,368	8-5¼	----------	51	68	Sd	Pl	----	---	---	------	Oil test; bedrock at 151 ft; L.
34N1	Mr. Bierly	Shell Oil Co.	1941	690	Dr	310	---	----------	---	---	-----	--	----	---	---	------	Oil test; bedrock at 132 ft; 138 ft shale underlain by 37 ft limestone and 6 ft dolomite.
36/2W- 5C1	E. Smith	---------do---------	9- 2-43	790	Dr	1,565	8½	----------	---	---	-----	--	----	---	---	------	Oil test; bedrock at 180 ft; L.
6E1	V. Bornacchi	Indiana-Michigan Water Development Co.	4- 4-47	795	Dr	86	6	S; 20ft, 15sl, dia 5½	16	70	Sd,G	Pl	U	16	Ir	T20	Dd 5ft pumping 35 gpm.
6E2	-------do---------	---------do---------	2- 3-54	795	Dr	100	12	S; 20ft, 12sl, dia 11¼	30	71	Sd,G	Pl	C	17	Ir	T40	Dd 53 ft after 3 hr pumping about 400 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: Depth to top (feet)	Water-bearing zone: Thickness (feet)	Water-bearing zone: Character	Water-bearing zone: Geologic age	Water-bearing zone: Conditions of occurrence	Water level (feet)	Use	Type of pump and horsepower	Remarks
36/2W- 6E3	V. Bernacchi	Indiana-Michigan Water Development Co.	2- 7-57	795	Dr	88	8	S; 20ft	19	69	Sd,G	Pl	C	18	Ir	------	Dd 31 ft pumping 360 gpm; screen, upper 15 ft 17 slot, lower 5 ft 15 slot; L.
7F1	City of La Porte	---------do---------	8- 1-30	780	Dr	105	6	S; 10ft, 10sl, dia 5½	---	---	Sd	Pl	----	---	N	JJ	Yield 50 gpm; sand overlain by 4 ft top soil.
7G1	--------do--------	Layne-Northern Co., Inc.	3-27-50	680	Dr	103	6	S; 10ft, 10sl	27	77	Sd,G	Pl	C	6	P	T5	Dd 7 ft after 2.5 hr pumping 55 gpm; Ca, L.
7M1	V. Probst	----------	--------	795	Da	28	1¼	S	---	---	Sd	Pl	----	---	---	1/4	
7M2	Mr. Henry	Shell Oil Co.	1941	799	Dr	440	---	----------	---	---	-----	--	----	---	---	------	Oil test; bedrock at 220 ft; 211 ft shale underlain by 9 ft dolomite.
8B1	Mr. Clayton	---------do---------	1941	792	Dr	380	---	----------	---	---	-----	--	----	---	---	------	Oil test; bedrock at 209 ft; 166 ft shale underlain by 5 ft dolomite.
10N1	B. Bernacchi	Hunts Hoosier Hardware	4-30-57	770	J	44	2	S; 4ft, 60g, dia 1	29	15	Sd	Pl	U	20	D	------	Yield 13 gpm; Ca, L.
10Q1	L. Zoborosky	---------do---------	7- 2-58	755	J	34	2	--------do---------	20	14	Sd	Pl	U	20	D	------	See log well 10N1; Ca.
12N1	Mr. Stoffer	Shell Oil Co.	1941	747	Dr	395	---	----------	---	---	-----	--	----	---	---	------	Oil test; bedrock at 202 ft; 173 ft shale underlain by 5 ft limestone and 15 ft dolomite.
14N1	Mr. Whetzell	---------do---------	1941	739	Dr	367	---	----------	---	---	-----	--	----	---	---	------	Oil test; bedrock at 190 ft; 155 ft shale underlain by 2 ft limestone and 20 ft dolomite.
15A1	M. Bookman	Hunts Hoosier Hardware	2-56	750	J	32	2	S; 3½ft, 60g, dia 1	16	16	Sd,G	Pl	U	16	D	J1/2	Yield 13 gpm; Ca, L.
19B1	D. Rose	---------do---------	7-30-59	770	J	35	2	S; 4ft, 60g, dia 1	22	13	Sd	Pl	C	17	S	------	Ca, L.
19Q1	Mr. Langman	Shell Oil Co.	1941	786	Dr	390	---	----------	---	---	-----	--	----	---	---	------	Oil test; bedrock at 187 ft; 184 ft shale underlain by 19 ft dolomite.
23L1	Grand Trunk Railway	D. Main	About 1913	734	Dr	257	---	----------	5	168	Sd,G	Pl	U	5	---	------	Oil test; bedrock at 205 ft; L.
26P1	H. Coppens	D. Lantz	7- 1-53	734	Da	21	1¼	S; 3ft, 60g	---	---	Sd	Pl	----	---	S	J1/2	Yield 6 gpm; Ca.
28B1	Mr. Bealer	Shell Oil Co.	1941	741	Dr	357	---	----------	---	---	-----	--	----	---	---	------	Oil test; bedrock at 258 ft; 82 ft shale underlain by 17 ft dolomite.
31E1	Town of Kingsbury	Layne-Northern Co., Inc.	11- 6-41	745	Dr	97	---	----------	21	76	Sd	Pl	U	21	T	------	See log well 31E2.
31E2	C. Bottou	---------do---------	4-16-42	745	Dr	88	8	S; 20ft, 20sl	18	70	Sd,G	Pl	U	18	N	------	Dd 18 ft pumping 380 gpm; L.
31P1	U. S. Government	---------do---------	11-26-40	737	Dr	89	8	S; 20ft, 20sl, dia 7½	17	72	Sd	Pl	U	17	O	------	Dd 3 ft after 4 hr pumping 50 gpm; observation well La Porte 3; water level measured 16.89 ft below lsd, 11-4-55; G, L.
31P2	--------do--------	---------do---------	6- 5-41	730	Dr	80	---	----------	10	64	Sd	Pl	U	10	---	------	See log well 31P1.
31P3	--------do--------	---------do---------	8- 7-41	736	Dr	92	34	Gp; S; 15ft, 105sl, dia 12	16	76	Sd	Pl	U	10	---	------	Dd 26 ft pumping 850 gpm; see log well 31P1.
32D1	Mr. Newson	Shell Oil Co.	1941	740	Dr	362	---	----------	---	---	-----	--	----	---	---	------	Oil test; bedrock at 145 ft; 105 ft shale underlain by 22 ft dolomite.
32K1	U. S. Government	Layne-Northern Co., Inc.	12-30-40	740	Dr	84	8	S; 20ft, 20sl, dia 7½	20	64	Sd	Pl	U	20	---	------	Dd 1.5 ft after 4 hr pumping 50 gpm; temp 52; L.
32K2	--------do--------	---------do---------	1-15-41	741	Dr	80	8	--------do---------	20	64	Sd	Pl	U	20	O	------	Dd 2 ft after 4.5 hr pumping 50 gpm; observation well La Porte 5; water level measured 17.11 ft below lsd, 12-1-55; see log well 32K1.
33J1	--------do--------	---------do---------	1-22-41	738	Dr	73	8	--------do---------	17	56	Sd,G	Pl	U	17	---	------	Dd 2 ft after 5 hr pumping 50 gpm; temp 52; L.
34L1	--------do--------	---------do---------	1- 9-41	738	Dr	67	8	--------do---------	20	49	Sd	Pl	U	20	---	------	Dd 3 ft after 4 hr pumping 60 gpm; temp 52; L.

36/3W- 1E1	La Porte-Daniels Woolen Mills	----------	5-13-29	600	Dr	40	8	S; 10ft, dia 4	---	---	Sd,G	Pl	U	20	N	------	Dd 41 ft pumping 35 gpm.
1E2	-------do--------	Layne-Northern Co., Inc.	8-28-55	600	Dr	90	30	Gp; S; 30ft, 130sl, dia 18	20	90	Sd,G	Pl	U	20	N	------	Dd 17 ft after 8.5 hr pumping 700 gpm; L.
1L1	A. Barnacchi	Indiana-Michigan Water Development Co.	7-24-30	797	Dr	60	6	S; 10ft, 30sl	26	34	G,Sd	Pl	C	19	I, Ir	------	See log well 1L2.
1L2	-------do--------	---------do---------	7- 1-49	797	Dr	66	6	S; 10ft, 15sl, dia 5½	22	44	G,Sd	Pl	C	20	I, Ir	T	Dd 0 ft after 2 hr pumping 55 gpm; L.
1Q1	Dr. Cartor	Hunts Hoosier Hardware	5- 8-57	795	J	38	2	S; 4ft, 60g, dia 1	21	19	Sd,G	Pl	U	21	D	------	L.
3J1	C. Pauler	---------do---------	--------	822	J	48	2	-------do--------	30	18	Sd,G	Pl	U	30	D	------	L.
3K1	U.S. Government	Clark Drilling Co.	11- 9-55	832	Dr	194	4	S; 10ft, 8sl	37	157	Sd	Pl	U	37	P	J5	Yield 50 gpm; Ca, L.
3L1	A. Dinwiddie	A. Good	6-54	820	J	52	2	S; 60g	38	14	G,Sd	Pl	U	38	D	------	Gravel and sand from 0-52 ft.
3P1	Mr. Cassidy	Hunts Hoosier Hardware	--------	827	J	54	4	S; 8ft, 80g	35	19	Sd,G	Pl	U	35	P	J2	Yield 60 gpm; Ca, L.
3Q1	R. Dysard	J. Dill	1949	822	J	44	2	S; 3ft, 60g, dia 1	---	---	Sd	Pl	----	24	D	J1/2	Yield 5 gpm.
3Q2	R. Richman	---------do---------	6-10-52	822	J	54	2	S; 60g	---	---	Sd	Pl	----	26	D	J1/2	Yield 6 gpm.
3Q3	R. Hibner	Mr. Darnthouse	9-53	827	J	53	2	S; 4ft, 40g	44	9	Sd	Pl	C	---	D	------	Yield 13 gpm; L.
3Q4	Mr. Dietz	A. Good	--------	826	J	53	2	S; 60g	---	---	G	Pl	----	36	D	L	
3Q5	S. Small	Hunts Hoosier Hardware	8-29-59	827	J	51	2	S; 3½ft, 60g, dia 1	37	14	Sd	Pl	U	37	D	------	See log well 3K1.
3R1	E. Pinkerton	A. Good	Spring 1952	823	J	42	2	S; 60g	---	---	Sd	Pl	----	32	D	J1/2	Yield 5 gpm.
5M1	Scipio Township Volunteer Fire Department	D. Lantz	9-55	835	J	60	2	S; 3ft, 60g	---	---	Sd	Pl	----	20	---	J3/4	For fire protection.
6H1	H. Hughes	Hunts Hoosier Hardware	8-24-54	840	J	89	2	S; 4½ft, 60g	65	4	Sd,G	Pl	C	50	D	J1/2	Yield 15 gpm; L.
7C1	C. Levenduski	Westville Well Co.	6- 9-55	830	J	56	2	S; 4ft, 60g, dia 1	---	---	Sd	Pl	----	40	D,S	3/4	Ca.
9R1	E. Carson	Mr. Darnthouse	6- 1-54	813	J	40	2	S; 3ft, 60g, dia 1	28	12	Sd	Pl	C	13	S	1/2	Ca, L.
9S2	-------do--------	---------do---------	---------	813	Dn	27	1½	S	---	---	Sd	Pl	----	---	D	1/2	Ca.
10A1	K. Anderson	---------	---------	815	J	38	2	S; 3ft, 60g, dia 1	---	---	Sd	Pl	----	15	D	L1	
10A2	J. Croner	Hunts Hoosier Hardware	6-12-57	815	J	46	2	S; 4ft, 60g	30	10	Sd,G	Pl	U	30	D	------	Yield 13 gpm; L.
10A3	A. Lower	Westville Well Co.	7- 5-50	815	J	59	3	S; 5ft, 10sl, dia 2	30	29	Sd	Pl	U	30	D	------	L.
10A4	Moyer Construction Co.	---------do---------	7- 1-59	815	J	57	2	S; 3ft, dia 1	---	---	Sd,G	Pl	U	10	D	------	Brown sand and medium gravel from 0-57 ft.
10C1	La Porte County Asylum	Indiana-Michigan Water Development Co.	-------	815	Dr	74	6	S; 20ft, dia 5½	38	36	G,Sd	Pl	C	38	P	T5	Dd 50 ft pumping 100 gpm; screen, upper 10 ft 20 sl, lower 5 ft 25 sl; L.
10C2	-------do--------	---------do---------	7-28-44	815	Dr	97	6	S; 30ft, 20sl, dia 5½	45	52	Sd	Pl	C	34	P	T	Dd 9 ft pumping 45 gpm; sand overlain by 45 ft clay and sand; Ca.
10G1	W. Baker	Hunts Hoosier Hardware	9-15-58	815	J	50	2	S; 4ft, 60g, dia 1	43	7	Sd	Pl	C	32	D	------	L.
10M1	B. Strausburry	----------	---------	815	J	42	2	S; 60g	---	---	Sd	Pl	----	---	D	L1/3	
10N2	C. Fitzsimmons	----------	---------	815	J	40	2	S; 3½ft, 60g, dia 1	---	---	Sd	Pl	----	12	D	L1/3	
10N3	P. Milsinglo	Lakeland Well Drillers	2- 4-57	815	J	66	2	S; 3½ft, 80g, dia 1	---	---	Sd	Pl	----	30	D	J1/3	Ca.
10K1	W. Cuff	Hunts Hoosier Hardware	8-11-58	815	J	43	2	S; 4ft, 60g, dia 1	30	13	Sd	Pl	U	30	D	------	L.
11F1	T. B. Davis	Westville Well Co.	7- 9-56	815	J	68	2	S; 4½ft	---	---	Sd	Pl	----	---	D	------	
16C1	Door Village Parsonage	D. Lantz	4- 6-54	810	Dn	28	1¼	S; 60g	---	---	Sd	Pl	----	19	D	1/3	Yield 8 gpm; Ca.
16D1	G. Glen	Hunts Hoosier Hardware	4-25-57	820	J	40	2	S; 4ft, 60g, dia 1	---	---	Sd,G	Pl	----	22	D	------	Yield 13 gpm; L.
18E1	A. Hackstead	---------do---------	2-55	825	J	41	2	S; 4½ft, 60g, dia 1	---	---	Sd,G	Pl	----	27	D	J1/2	Yield 13 gpm; Ca, L.
36/4W- 1G1	J. C. Keene	---------do---------	4-24-57	835	J	82	2	S; 4ft, 60g, dia 1	---	---	Sd,G	Pl	----	62	D	J1/2	Yield 13 gpm; L.
1G2	F. Surns	---------do---------	9-11-58	835	J	81	2	-------do--------	---	---	Sd	Pl	----	60	D	------	See log well 1G1.
1Q1	J. Grover	----------	--------	835	J	59	2	S; 5ft, 50g, dia 1	---	---	Sd,G	Pl	----	43	D	J1/2	Yield 10 gpm.
2D1	Indiana Toll Road Commission	----------	--------	774	B	20	---	----------	---	---	------	--	----	---	T	------	L.
2F1	E. Schmidt	J. Dill	1947	845	J	69	2	S; 3½ft, 60g, dia 1	---	---	Sd	Pl	----	44	D	J1/2	
2G1	H. Eicholborg	----------	--------	840	J	80	2	S; 3ft, 60g, dia 1	---	---	Sd	Pl	----	55	D,S	J	
3A1	Indiana Toll Road Commission	Westville Engineering Co.	6- 7-54	754	B	32	2½	----------	18	12	Sd	Pl	C	---	T	------	Flowed 10 gpm from pipe 3 ft above ind; see log well 3A2.
3A2	-------do--------	---------do---------	5-26-54	755	B	42	2½	----------	36	6	Sd,G	Pl	C	---	T	------	Flowed 3 gpm; L.
3G1	-------do--------	---------do---------	---------	826	B	52	---	----------	38	14	Sd	Pl	C	28	T	------	See log well 3G4.
3G2	-------do--------	---------do---------	5-25-54	804	B	52	2½	----------	---	---	Sd	Pl	----	16	T	------	L.
3G3	-------do--------	---------do---------	5-26-54	812	B	38	2½	----------	36	20	Sd	Pl	C	32	T	------	See log well 3G4.
3G4	-------do--------	---------do---------	5-26-54	810	B	52	2½	----------	---	---	------	--	----	---	T	------	No water reported; L.
3N1	-------do--------	---------do---------	5-24-54	861	B	42	2½	----------	---	---	------	--	----	---	T	------	Do.
3N2	-------do--------	---------do---------	5-24-54	842	B	42	2½	----------	---	---	------	--	----	---	T	------	Do.
5F1	S. Sloboda	Lakeland Well Drillers	7-20-50	750	J	108	2	----------	95	13	Sd	Pl	C	40	D	J	Sand overlain by 95 ft clay; Ca.
5J1	Indiana Toll Road Commission	Layne-Northern Co., Inc.	6- 1-55	775	Dr	113	0	S; 10ft, 20sl, dia 5½	59	54	Sd,G	Pl	C	28	P	------	Dd 16 ft after 8 hr pumping 55 gpm; Ca, L.
5J2	J. Klunas	Westville Well Co.	1- 3-56	780	J	94	2	S; 4½ft, dia 1	---	---	Sd,G	Pl	----	---	D	------	
5M1	M. Josh	---------do---------	7- 3-59	750	J	87	2	S; 3ft, dia 1	81	6	Sd,G	Pl	C	28	D	------	Ca, L.
7C1	Indiana Toll Road Commission	Westville Engineering Co.	5-13-54	770	B	30	2½	----------	11	19	Sd,G	Pl	U	11	T	------	See log well 7G1.
7G1	-------do--------	---------do---------	5-13-54	778	B	30	2½	----------	11	19	Sd	Pl	C	6	T	------	L.
8A1	-------do--------	---------do---------	5-22-54	791	B	86	2½	----------	---	---	Sd	Pl	----	---	T	------	L.
8A2	-------do--------	---------do---------	5-22-54	778	B	82	2½	----------	56	26	Sd	Pl	C	26	T	------	L.
8A3	-------do--------	---------do---------	5-21-54	774	B	52	2½	----------	19	8	Sd	Pl	C	5	T	------	See log well 8A4.
8A4	-------do--------	---------do---------	5-21-54	770	B	52	2½	----------	20	7	Sd	Pl	C	3	T	------	L.
8A5	-------do--------	---------do---------	5-22-54	769	B	62	2½	----------	---	---	Sd	Pl	C	2	T	------	L.
8A6	-------do--------	---------do---------	5-19-54	768	B	50	2½	----------	35	15	Sd,G	Pl	C	6	T	------	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: Depth to top (feet)	Water-bearing zone: Thickness (feet)	Water-bearing zone: Character	Water-bearing zone: Geologic age	Water-bearing zone: Conditions of occurrence	Water level (feet)	Use	Type of pump and horsepower	Remarks
36/4W- 8A7	Indiana Toll Road Commission	Westville Engineering Co.	8-26-54	770	D	52	2½	----------	28	26	Sd	Pl	C	6	T	------	See log well 8A10.
8A8	------do------	------do------	5-21-54	773	D	52	2½	----------	45	7	Sd	Pl	C	9	T	------	L.
8A9	------do------	------do------	5-20-54	776	B	52	2½	----------	43	9	Sd	Pl	C	6	T	------	See log well 8A8.
8A10	------do------	------do------	5-21-54	776	B	52	2½	----------	28	26	Sd,G	Pl	C	11	T	------	L.
8A11	Dr. Keeling	Hunts Hoosier Hardware	5-21-58	770	J	40	2	S; 4ft, 80g, dia 1	---	---	Sd	Pl	-----	24	P	J1/2	L.
8A12	------do------	------do------	6-10-58	770	J	52	3	S; 6ft, 60g, dia 1½	35	17	Sd	Pl	U	35	P	J3/4	See log well 8A14; Ca.
8A13	------do------	------do------	8- 5-58	780	J	50	2	S; 5ft, 60g, dia 1	---	---	Sd	Pl	-----	40	D	J	Do.
8A14	------do------	------do------	9- 5-58	780	J	60	3	S; 6ft, 80g, dia 1½	---	---	Sd	Pl	-----	40	D	------	Ca, L.
8C1	S. Hyska	Westville Well Co.	8-25-56	750	J	45	2	S; 4½ft	---	---	Sd	Pl	-----	---	D	------	Ca.
8C2	Indiana Toll Road Commission	Westville Engineering Co.	5-23-54	714	B	82	2½	----------	5	77	Sd,G	Pl	U	5	T	------	L.
8C3	------do------	------do------	5-12-54	771	D	82	2½	----------	5	77	Sd	Pl	U	---	T	------	L.
8C4	------do------	------do------	5-19-54	780	D	70	2½	----------	---	---	Sd	Pl	-----	---	T	------	See log well 8C3.
8C5	------do------	------do------	5-18-54	768	D	82	2½	----------	45	37	Sd	Pl	C	6	T	------	L.
8C6	------do------	------do------	5-15-54	765	B	92	2½	----------	---	---	Sd,G	Pl	C	11	T	------	L.
8C7	------do------	------do------	5-16-54	765	D	92	2½	----------	---	---	Sd,G	Pl	C	6	T	------	L.
8D1	------do------	------do------	5-20-54	722	B	32	2½	----------	---	---	Sd,G	Pl	-----	2	T	------	See log well 8D2.
8D2	------do------	------do------	5-20-54	720	B	52	2½	----------	6	46	Sd,G	Pl	-----	6	T	------	L.
8P1	Mrs. Ortman	----------	About 1880	812	--	82	---	----------	---	---	Sd	Pl	-----	47	D	J1/4	Ca.
9C1	Indiana Toll Road Commission	Westville Engineering Co.	5-24-54	813	D	32	2½	----------	---	---	-----	--	-----	---	T	------	No water reported; L.
9D1	------do------	------do------	5-21-54	795	B	40	2½	----------	21	19	Sd,G	Pl	U	21	T	------	L.
10B1	H. Schmidt	----------	--------	855	J	88	2	S; 5ft, 60g, dia 1	---	---	Sd	Pl	-----	73	D,S	------	
10D2	------do------	----------	--------	855	J	88	2	------do------	---	---	Sd	Pl	-----	73	D	L	
10C1	H. Gottshaw	----------	--------	855	J	82	2	S; 3ft, 80g, dia 1	---	---	Sd,G	Pl	-----	---	---	J1/2	
10H1	G. Vincent	----------	--------	825	J	89	2	S; 3½ft, 80g, dia 1	---	---	Sd	Pl	-----	51	D	J1/2	Ca.
12D1	B. Anderson	----------	--------	845	J	80	2	S; 80g	---	---	Sd	Pl	-----	31	D,S	J1/2	
12N1	G. Schlack	Hunts Hoosier Hardware	2-56	837	J	62	2	S; 3½ft, 60g, dia 1	---	---	Sd,G	Pl	-----	42	D	------	Yield 13 gpm; Ca, L.
12P1	G. Dhuyvetter	J. Dill	2-15-51	835	J	55	2	S; 3ft, 60g	---	---	Sd	Pl	-----	35	D,S	L1/3	Ca.
12Q1	------do------	Westville Well Co.	4-57	835	J	78	2	----------	---	---	Sd	Pl	-----	20	S	------	
13K1	A. Morrold	----------	--------	825	Dn	51	1½	S; 3ft, 60g, dia 1½	---	---	Sd	Pl	-----	---	S	L	Well point driven inside 25-ft dug well.
14A1	C. Matton	----------	--------	830	J	55	2	----------	---	---	Sd	Pl	-----	28	D	L1/3	
14K1	W. Payne	----------	1-12-55	827	J	67	2	----------	---	---	Sd	Pl	-----	---	D	J1/2	
14N1	W. D. Clemonts	----------	--------	827	J	59	2	S; 3ft, 60g	---	---	Sd	Pl	-----	43	D	L	
14N2	C. Stephens	J. Dill	6-56	827	J	65	2	------do------	60	5	Sd	Pl	C	30	D	1/2	Sand overlain by 60 ft red clay and gravel; Ca.
14P1	K. Olson	Hunts Hoosier Hardware	5- 2-55	827	J	56	2	S; 3½ft, 60g, dia 1	48	8	Sd,G	Pl	C	30	D	J1/2	L.
15P1	K. Redder	------do------	4-25-57	812	J	48	2	S; 4ft, 60g, dia 1	42	6	Sd	Pl	C	31	D	------	Yield 13 gpm; Ca, L.
19E1	M. Switt	Lakeland Well Drillers	4-17-57	792	J	165	2	------do------	160	9	Sd,G	Pl	C	60	D	J3/4	Ca, L.
21D1	R. Poston	Mr. Barnthouse	1952	830	J	63	2	S; 4ft, 80g, dia 1	55	8	Sd	Pl	-----	---	D,S	J1/2	Sand overlain by 55 ft red clay with shale fragments; Ca.
23D1	J. Pflugshaupt	----------	--------	827	J	42	2	S	---	---	Sd	Pl	-----	---	D	1/4	
25L1	E. J. Dohart	----------	--------	790	J	40	2	S; 80g	---	---	Sd	Pl	-----	20	D,S	1/2	Yield 7 gpm; Ca.
28M1	Town of Westville	B. J. Moore and Son	--------	805	Dr	108	10	S; 40sl	---	---	Sd	Pl	-----	22	P	T	
28N1	K. Hoover	Sriver Drilling Co.	6- 9-51	802	Dr	117	4	S; 8ft, 60g, dia 2½	35	82	Sd,G	Pl	C	25	P	------	Ca, L.
28N2	------do------	------do------	--------	802	J	67	2	S	---	---	Sd,G	Pl	C	---	P	------	
30D1	A. Coates	Westville Well Co.	7-24-59	795	J	64	2	S; 3ft, 60g, dia 1	15	49	Sd,G	Pl	U	15	D	------	L.
32F1	Beaty Memorial Hospital	Layne-Northern Co., Inc.	7-29-48	790	Dr	85	30	Gp; S; 20ft, 55sl, dia 12	---	---	Sd	Pl	-----	20	P	T	Dd 26 ft pumping 380 gpm.
32F2	------do------	------do------	8-23-48	790	Dr	52	6	S; 10ft, dia 4	20	32	Sd,G	Pl	U	20	N	------	Yield 50 gpm; sand and gravel from 0-52 ft.
32L1	------do------	------do------	9-22-48	790	Dr	84	30	Gp; S; 20ft, 55sl, dia 12	19	65	Sd	Pl	U	18	P	T	Dd 27 ft pumping 370 gpm; L.
37/1W- 5C1	C. Dartmess	Hunts Hoosier Hardware	3- 1-56	840	J	93	2	S; 4½ft, 60g, dia 1	76	17	Sd,G	Pl	U	76	D,S	J1	Yield 15 gpm; Ca, L.
6H1	H. Vosburgh	------do------	7-14-56	850	J	95	2	S; 5ft, 60g, dia 1	89	6	Sd	Pl	U	80	D	------	Brown coarse sand from 0-95 ft; Ca.
7R1	D. Williamson	------do------	3-28-57	830	J	85	2	S; 4½ft, 60g, dia 1	64	21	Sd,G	Pl	U	64	D	------	Ca, L.

37/1W- 8E1	D. Pfiefer and R. Ekart	Hunts Hoosier Hardware	9- 3-54	840	J	100	2	S; 4½ft, 60g	57	43	Sd,G	Pl	U	57	D	J1	Yield 15 gpm; sand and gravel from 0-100 ft; Ca.
8M1	W. Harris	---------do---------	3-18-56	820	J	68	2	S; 5ft, 60g, dia 1	49	19	G,Sd	Pl	U	49	D	J	Yield 13 gpm; Ca, L.
9L1	H. C. Hunt	---------do---------	1955	790	J	90	2	S; 4½ft, 60g	36	54	Sd	Pl	U	36	D	J1/2	Yield 15 gpm; Ca, L.
9L2	C. A. L. Moore	---------do---------	6-53	790	J	53	2	S; 60g	38	15	Sd	Pl	U	38	D	J1/2	Brown sand with little gravel from 0-53 ft.
10P1	E. Turak	---------do---------	7-18-59	820	J	94	2	S; 4ft, 60g, dia 1	80	14	Sd,G	Pl	U	80	D,S	------	Ca, L.
17E1	H. Stonish	---------do---------	2-12-57	815	J	82	2	S; 4½ft, 60g, dia 1	75	7	Sd	Pl	C	43	D	J1/2	Yield 13 gpm; L.
21Q1	H. and E. Hofstetter	N. Hope	11-10-51	780	J	71	2	S; 60g	---	---	Sd	Pl	-----	---	N	------	
22D1	D. Turak	Hunts Hoosier Hardware	Spring 1958	770	J	58	2	S; 4ft, 60g, dia 1	32	26	Sd	Pl	U	32	D	------	Ca, L.
28E1	L. Wilson	Sriver Drilling Co.	--------	735	Da	20	1½	S; 4ft, 60g, dia 1½	---	---	Sd	Pl	----	15	---	------	
29J1	Mr. Tuszynski	Hunts Hoosier Hardware	4-56	805	J	84	2	S; 4½ft, 60g, dia 1	65	19	G,S	Pl	U	65	D,S	J1	Yield 13 gpm; Ca, L.
31C1	W. Dawson	---------do---------	9-10-57	787	J	64	2	S; 3½ft, 60g, dia 1	49	15	Sd	Pl	U	49	---	------	Do.
31L1	H. Loter	---------do---------	4- 9-57	775	J	58	2	---------do---------	43	15	Sd	Pl	U	43	---	------	Yield 13 gpm; L.
37/2W- 1D1	Notre Dame University	Indiana-Michigan Water Development Co.	9-22-33	810	Dr	170	8	S; 24ft, dia 7	---	---	Sd,G	Pl	----	58	P	T20	Dd 44 ft pumping 170 gpm; screen, upper 19 ft 24 sl, lower 5 ft 10 sl; see log well 1D2.
1D2	---------do---------	---------do---------	6-11-45	810	Dr	171	8	S; 20ft, dia 7	---	---	Sd	Pl	-----	58	P	T	Yield 65 gpm; screen, upper 10 ft 10 sl, lower 10 ft 15 sl; Ca, L.
2A1	R. Mrozinski	Hunts Hoosier Hardware	4-57	810	J	58	2	S; 4ft, 60g, dia 1	40	18	Sd,G	Pl	U	40	S	J1/2	Yield 13 gpm; Ca, L.
2M1	R. Whoatbrook	---------do---------	2-55	815	J	84	2	S; 3ft, 60g	53	11	Sd,G	Pl	U	53	D	J1/2	L.
3D1	Indiana Toll Road Commission	KOF Foundation Test Borings, Inc.	1954	862	D	30	---	----------	---	---	-----	--	-----	---	T	------	No water reported; see log well 3D2.
3D2	---------do---------	---------do---------	1954	857	B	41	---	----------	---	---	-----	--	-----	---	T	------	No water reported; L.
4A1	---------do---------	---------do---------	1954	858	B	40	---	----------	---	---	-----	--	-----	---	T	------	No water reported; see log well 4A4.
4A2	---------do---------	---------do---------	1954	858	B	46	---	----------	---	---	-----	--	-----	---	T.	------	No water reported; see log well 4A3.
4A3	---------do---------	---------do---------	1954	858	B	55	---	----------	---	---	-----	--	-----	---	T	------	No water reported; L.
4A4	---------do---------	---------do---------	1954	857	B	48	---	----------	---	---	-----	--	-----	---	T	------	Do.
4A5	---------do---------	---------do---------	1954	854	B	35	---	----------	---	---	-----	--	-----	---	T	------	No water reported; see log well 4A3.
4E1	J. Charno	----------	10-22-48	884	Dr	785	8-6½	----------	---	---	-----	--	-----	---	---	------	Oil test; bedrock at 283 ft; 278 ft shale underlain by 234 ft limestone.
4N1	E. Pagle	N. Hope	10-29-51	855	J	134	2	S; dia 1	---	---	Sd	Pl	-----	---	D	J1/2	Medium sand overlain by red and blue clay.
4N2	Indiana Toll Road Commission	KOF Foundation Test Borings, Inc.	4-23-54	861	B	45	---	----------	11	34	Sd	Pl	----	10	T	------	L.
4N3	---------do---------	---------do---------	4-54	860	B	45	---	----------	---	---	-----	--	-----	---	T	------	No water reported; see log well 4N2.
5C1	J. Wollinski	Hunts Hoosier Hardware	8-26-59	900	J	180	2	S; 5ft, 60g, dia 1	166	14	Sd	Pl	U	166	D	------	Ca, L.
5D1	A. Janicki	---------do---------	Summer 1946	890	J	155	2	S; 60g	143	12	Sd	Pl	U	143	D	L	Sand with few gravel overlain by 5 ft clay.
5L1	E. Sullivan	---------do---------	4-17-57	860	J	119	2	S; 4½ft, 60g, dia 1	103	16	Sd	Pl	U	103	D	------	Yield 13 gpm; L.
5P1	J. Warfield	Mr. Barnthouse	--------	840	J	129	2	S; 4ft, 60g	118	13	Sd	Pl	U	75	D	J	Yield 12 gpm; sand from 0-131 ft.
5R1	Indiana Toll Road Commission	KOF Foundation Test Borings, Inc.	5-21-54	858	B	40	---	----------	---	---	-----	--	-----	---	T	------	No water reported; see log well 5R2.
5R2	---------do---------	---------do---------	5-22-54	852	D	40	---	----------	---	---	Sd	Pl	-----	18	T	------	L.
5R3	---------do---------	---------do---------	5-20-54	850	D	35	---	----------	---	---	-----	--	-----	---	T	------	No water reported; see log well 5R7.
5R4	---------do---------	---------do---------	1954	861	D	45	---	----------	---	---	-----	--	-----	---	T	------	Do.
5R5	---------do---------	---------do---------	1954	861	B	39	---	----------	---	---	Sd	Pl	-----	---	T	------	See log well 5R7.
5R6	---------do---------	---------do---------	1954	860	B	40	---	----------	---	---	-----	--	-----	---	T	------	No water reported; see log well 5R7.
5R7	---------do---------	---------do---------	1954	860	B	46	---	----------	---	---	-----	--	-----	---	T	------	No water reported; L.
7A1	M. Pritzen	H. B. Phillips	1- 7-43	814	Dr	1,528	---	----------	---	---	-----	--	-----	---	---	------	Oil test; bedrock at 200 ft.
7E1	Indiana Toll Road Commission	KOF Foundation Test Borings, Inc.	4-21-54	829	B	40	---	----------	7	33	Sd,G	Pl	U	7	T	------	See log well 7E3.
7E2	---------do---------	---------do---------	4-21-54	828	B	38	---	----------	7	31	Sd	Pl	U	7	T	------	Do.
7E3	---------do---------	---------do---------	4-20-54	830	B	52	---	----------	10	42	Sd	Pl	-----	0	T	------	L.
7H1	---------do---------	Indiana-Michigan Water Development Co.	4-18-55	790	Dr	109	8	S; 15ft, 12sl	24	86	Sd	Pl	U	24	P	T5	Dd 69.5 ft after 8 hr pumping 110 gpm; Ca, L.
7H2	---------do---------	KOF Foundation Test Borings, Inc.	4-23-54	787	D	44	---	----------	14	30	Sd,G	Pl	U	14	T	------	L.
7H3	---------do---------	---------do---------	4-23-54	787	B	44	---	----------	14	30	Sd,G	Pl	U	14	T	------	See log well 7H2.
7H4	---------do---------	---------do---------	4-24-54	787	B	43	---	----------	14	29	Sd,G	Pl	U	14	T	------	Do.
7H5	---------do---------	---------do---------	4-28-54	787	B	48	---	----------	14	32	Sd,G	Pl	U	14	T	------	Do.
7H6	---------do---------	---------do---------	4-18-54	787	B	40	---	----------	15	25	Sd,G	Pl	U	15	T	------	Do.
7H7	---------do---------	---------do---------	4-20-54	787	B	42	---	----------	14	28	Sd,G	Pl	U	14	T	------	Do.
7P1	D. Proud	Hunts Hoosier Hardware	8-12-59	860	J	104	2	S; 4ft, 60g, dia 1	90	14	Sd	Pl	U	90	D	------	L.
8B1	Indiana Toll Road Commission	KOF Foundation Test Borings, Inc.	5-22-54	842	B	37	---	----------	---	---	-----	--	-----	---	T	------	No water reported; L.
8D2	---------do---------	---------do---------	5-10-54	845	B	35	---	----------	---	---	-----	--	-----	---	T	------	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					Water level (feet)	Use	Type of pump and horsepower	Remarks
									Depth to top (feet)	Thickness (feet)	Character	Geologic age	Conditions of occurrence				
37/2W- 8B3	Indiana Toll Road Commission	KOF Foundation Test Borings, Inc.	5-21-54	852	B	40	---	----------	---	---	-----	--	----	---	T	------	No water reported; see log well 8D1.
8B4	-------do--------	---------do---------	6- 3-54	837	B	60	---	----------	---	---	-----	--	----	---	T	------	No water reported; L.
8D5	-------do--------	---------do---------	5-29-54	838	B	60	---	----------	---	---	-----	--	----	---	T	------	No water reported; see log well 8B4.
8B6	-------do--------	---------do---------	5-29-54	838	B	40	---	----------	---	---	-----	--	----	---	T	------	Do.
8D7	-------do--------	---------do---------	6- 2-54	839	B	45	---	----------	---	---	-----	--	----	---	T	------	Do.
8B8	-------do--------	---------do---------	6- 1-54	840	B	40	---	----------	---	---	-----	--	----	---	T	------	Do.
8D9	-------do--------	---------do---------	5-29-54	839	B	46	---	----------	---	---	-----	--	----	---	T	------	Do.
8B10	-------do--------	---------do---------	5-28-54	840	B	46	---	----------	---	---	-----	--	----	---	T	------	Do.
8B11	-------do--------	---------do---------	6- 2-54	840	B	60	---	----------	---	---	-----	--	----	---	T	------	Do.
8N1	H. Cole	J. Dill	1-57	800	J	48	2	S; 3ft, 60g	43	5	Sd	Pl	C	26	D	L1/2	Sand overlain by 43 ft red clay and gravel; Ca.
9E1	J. J. Klaca	Hunts Hoosier Hardware	7-10-54	850	J	80	2	S; 4½ft, 60g	70	10	Sd,G	Pl	U	70	S	L	Yield 15 gpm; sand and gravel overlain by 10 ft clay.
9L1	W. W. Griffith	Lakeland Well Drillers	11-30-56	815	J	150	2	S; 5½ft, 60g, dia 1	---	---	Sd,G	Pl	----	---	D,S	J1	Ca.
10E1	C. Young	Hunts Hoosier Hardware	7-56	835	J	80	4	S; 8ft, 10sl	---	---	Sd,G	Pl	U	47	Ir	J5	Yield 60 gpm; sand and gravel overlain by 72 ft sand.
10L1	W. Kegbein	---------do---------	3- 3-56	835	J	65	2	S; 3½ft, 60g, dia 1	47	18	Sd,G	Pl	U	47	D	J1/2	Yield 13 gpm; Ca, L.
11B1	Trustees, Kankakee Township	---------do---------	Summer 1952	810	J	70	4	-------do--------	35	35	Sd,G	Pl	U	35	P	J5	Yield 50 gpm; white sand and gravel overlain by 60 ft brown sand and gravel.
11E1	M. Warner	---------do---------	Summer 1945	815	J	50	2	S; 60g	30	20	Sd	Pl	U	30	D	J1/2	Brown coarse sand and gravel from 0-50 ft.
11E2	Mr. Mansfield	---------do---------	10- 6-57	825	J	67	2	S; 3½ft, 60g, dia 1	53	14	Sd	Pl	U	53	D	------	Yield 13 gpm; L.
11F1	N. Massey	---------do---------	Fall 1955	820	J	55	2	-------do--------	30	25	Sd,G	Pl	U	30	D	J1/2	Yield 13 gpm; sand and gravel from 0-55 ft; Ca.
11F2	G. Willinski	---------do---------	11-23-55	820	J	60	2	-------do--------	35	25	Sd,G	Pl	U	35	D	K1/2	Yield 13 gpm; L.
11G1	R. Stevens	---------do---------	7-51	810	J	67	2	S; 60g	50	17	Sd,G	Pl	U	50	D	J3/4	Brown coarse sand and gravel 0-67 ft.
11J1	South Bend Lathe Co.	Layne-Northern Co., Inc.	3- 5-57	810	Dr	75	8	S; 10ft, 15sl, dia 7⅝	28	55	Sd	Pl	U	28	N	------	Dd 24 ft after 24 hr pumping 150 gpm; L.
11J2	-------do--------	---------do---------	3-15-57	810	Dr	75	8	-------do--------	31	47	Sd	Pl	U	31	N	------	Dd 30 ft after 24 hr pumping 150 gpm; L.
11M1	Seneca Co.	Hunts Hoosier Hardware	4-16-56	810	J	53	2	S; 4½ft, 60g, dia 1	35	18	Sd,G	Pl	U	35	I	J1/2	L.
11N1	E. Smith	---------do---------	4-57	820	--	95	4	S; 5ft	56	39	Sd,G	Pl	U	56	---	SJ3/4	L.
12M1	Indiana State Highway Department	---------do---------	5- 9-58	810	J	60	4	S	33	27	G,Sd	Pl	U	33	P	L	Ca, L.
15A1	L. Stoner	---------do---------	9-56	810	J	62	2	S; 3½ft, 60g, dia 1	40	22	Sd,G	Pl	U	40	D	J1/2	Yield 13 gpm; see log well 15D1.
15D1	J. Booras	---------do---------	3-13-59	815	J	58	2	S; 4ft, 60g, dia 1	42	16	Sd,G	Pl	U	42	D	------	L.
17K1	L. Donchin	---------do---------	Summer 1952	790	J	40	4	S; 8ft. 60g	30	10	Sd,G	Pl	C	16	I	J2	White sand and blue gravel overlain by 30 ft clay and sand.
18N1	M. Fisher	Godfrey Drilling Co.	10- 6-46	815	Dr	450	8-6	----------	---	---	-----	--	----	---	---	------	Oil test; bedrock at 240 ft; L.
20L1	-------do--------	---------do---------	4-12-47	820	--	503	8½-6½	----------	---	---	-----	--	----	---	---	------	Oil test; bedrock at 231 ft; L.
20P1	Mrs. Garrison	Hunts Hoosier Hardware	11-28-56	820	J	57	2	S; 3½ft, 60g, dia 1	40	17	Sd,G	Pl	U	40	D	J1/2	Yield 13 gpm; Ca, L.
20Q1	R. Biehl	Westville Well Co.	9-19-56	815	J	61	2	S; 4½ft	---	---	Sd	Pl	----	---	D	------	
20R1	N. Plotz	J. P. Miller Artesian Well Co.	1947	815	Dr	124	6	S; 20ft	53	72	Sd,G	Pl	U	53	I	T5	Dd 13 ft after 3 hr pumping 65 gpm; screen, upper 10 ft 15 sl, lower 10 ft 10 sl; Ca, L.
21H1	G. Sherwood	Hunts Hoosier Hardware	10-12-54	765	J	34	2	S; 60g	---	---	Sd	Pl	----	9	D	J1/2	
25A1	Mr. Cummings	N. Hope	5- 6-52	800	J	60	2	S; 60g	---	---	Sd	Pl	----	---	D	------	
26D1	Dr. Scholl	Hunts Hoosier Hardware	4-17-55	770	J	30	2	S; 4½ft, 60g, dia 1½	14	10	Sd	Pl	U	14	S	J1	Yield 15 gpm; brown sand overlain by 8 ft black dirt.
26D2	-------do--------	---------do---------	11- 7-56	770	J	42	3	S; 6ft, dia 1½	21	21	Sd,G	Pl	U	21	D,S	J3/4	Yield 18 gpm; Ca, L.

37/2W-28K1	R. C. Witter Co.	Indiana-Michigan Water Development Co.	9-11-35	748	Dr	40	6	----------	4	36	Sd	Pl	U	4	T	------	Sand overlain by 5 ft muck.
28K2	City of La Porte	----------	--------	748	Du	25	600	----------	---	---	Sd,G	Pl	U	13	O,P	------	Observation well La Porte 1. water level measured 11.90 ft below lsd, 7-4-42.
28M1	Mr. Rumely	Shell Oil Co.	1941	795	Dr	447	---	----------	---	---	-----	--	----	---	---	------	Oil test; bedrock at 210 ft; 232 ft shale underlain by 5 ft dolomite.
28C1	G. Jolley	Hunts Hoosier Hardware	5-14-58	800	J	33	2	S; 4½ft, 40g, dia 1	---	---	G,Sd	Pl	----	23	Ir	------	Yield 13 gpm; L.
29D1	C. Hunt	Sriver Drilling Co.	7-50	810	J	77	4	S; 8ft, 60g, dia 2½	36	41	Sd,G	Pl	U	36	P	------	Sand and gravel from 0-77 ft.
29E1	J. Horvatt	Hunts Hoosier Hardware	11-54	805	J	46	2	S; 60g	40	6	Sd,G	Pl	C	25	D	------	Yield 15 gpm; L.
29E2	A. Sincox	---------do---------	4-57	805	J	51	3	S; 5ft, dia 1½	30	21	Sd,G	Pl	U	30	D	------	L.
29F1	S. J. Halter	---------do---------	9-20-56	800	J	43	2	S; 3½ft, 60g, dia 1	32	11	Sd,G	Pl	U	32	D	L	Yield 13 gpm; L.
30H1	Square Deal Electric	---------do---------	3- 5-58	810	J	49	2	--------do--------	---	---	Sd	Pl	-----	30	P	------	Yield 13 gpm; Ca, L.
30K1	R. E. Green	---------do---------	9-12-54	810	J	72	2	S; 60g	---	---	Sd,G	Pl	-----	25	D	J1/2	Yield 13 gpm; L.
30L1	City of La Porte	Layne-Northern Co., Inc.	2-25-57	800	Dr	174	7	----------	61	113	Sd	Pl	C	---	T	------	L.
30L2	--------do--------	---------do---------	6- 5-57	800	Dr	150	34	Gp; S; 54ft. 12sl, dia 8	85	65	Sd	Pl	C	12	P	------	Dd 42 ft after 1 hr pumping 1,000 gpm; L.
30L3	--------do--------	---------do---------	7-23-46	800	Dr	113	34	Gp; S; 26½ft, dia 12	65	48	Sd	Pl	C	12	P	------	Dd 47 ft pumping 1,100 gpm; L.
30L4	--------do--------	---------do---------	3-24-43	800	Dr	111	---	----------	85	45	Sd,G	Pl	C	12	T	------	See log well 30L3.
31M1	D. Woods	J. Dill	4-55	803	J	40	2	S; 60g	33	7	Sd	Pl	C	25	D	J	Yield 12 gpm; sand overlain by 33 ft red clay and gravel; Ca.
32E1	Baker Bros.	Shell Oil Co.	1941	794	Dr	380	---	----------	---	---	-----	--	----	---	---	------	Oil test; bedrock at 200 ft; 172 ft shale underlain by 8 ft dolomite.
32R1	F. Lenick	Hunts Hoosier Hardware	9-56	790	J	35	2	S; 4½ft, 60g, dia 1	22	13	Sd	Pl	U	22	S	------	Yield 13 gpm; brown sand from 0-35 ft.
33P1	L. Lockwood	Sriver Drilling Co.	5- 2-47	810	J	76	3	S; 4ft, 60g, dia 2	---	---	Sd,G	Pl	----	60	---	------	
33Q1	H. Landwer	Hunts Hoosier Hardware	3- 8-57	820	--	95	3	S; 4½ft, dia 1½	73	22	Sd,G	Pl	U	73	D	J1	L.
35J1	F. Lango	----------	--------	770	J	42	2	S; 4ft, 60g, dia 1	---	---	G,Sd	Pl	----	32	S	J3/4	
37/3W- 2N1	T. Logos	H. Hopo	11- 2-51	770	J	125	2	S; 60g	---	---	Sd	Pl	----	---	D	J3/4	
2N1	Mr. Lovendowski	Hunts Hoosier Hardware	1955	830	J	170	3	S; 5ft	160	10	Sd	Pl	C	108	D	J1	Yield 20 gpm; L.
3K1	W. Schwonk	---------do---------	Fall 1953	785	J	82	2	S; 60g	70	12	Sd	Pl	----	---	D	J1/3	White coarse sand overlain by about 70 ft clay and sand; Ca.
3K2	O. Troth	---------do---------	6-27-57	785	J	75	2	S; 4½ft, 60g, dia 1	60	0	Sd	Pl	C	12	N	------	White sand overlain by 69 ft clay; water level measured 15.90 below lsd, 12-10-50.
3K3	E. Schultz	---------do---------	5-15-58	770	J	33	2	S; 4ft, 60g. dia 1	26	7	Sd	Pl	C	6	D	J1/2	Ca, L.
4F1	Friendly Acres	---------do---------	1940	705	J	36	2	Oo	---	---	G,Sd	Pl	C	---	D,P	------	Flowed 80 gpm; Ca.
4F2	O. Smith	----------	--------	690	J	40	2	----------	---	---	Sd,G	Pl	C	+7	D,S	------	Discharge measured 12 gpm, 3-28-57; Ca.
4K1	T. Pahl	----------	--------	705	--	-----	---	----------	---	---	Sd	Pl	----	---	D	------	Spring issuing from sand; discharge less than 1 gpm; Ca.
5D1	C. Harmon	Hunts Hoosier Hardware	Summer 1952	665	J	30	2	S; 60g	10	20	Sd,G	Pl	U	10	D	J3/4	
5E1	Great Lakes Duck Farm	E. Hutchingson	--------	681	Dr	203	4	Oo	---	---	Sd,G	Pl	C	+35	I,S	------	Flowed 270 gpm; Ca.
5G1	J. J. Mark	----------	1932	660	J	175	2	----------	---	---	G,Sd	Pl	C	+30	D,S	------	Discharge measured 60 gpm, 3-28-57; finished with slotted pipe; Ca.
5H1	V. Dull	Hunts Hoosier Hardware	5- 1-58	670	J	56	2	S; 4ft, 60g, dia 1	50	6	Sd	Pl	C	---	---	------	Flowed 12 gpm; L.
5P1	Mr. Bossermaan	----------	--------	655	--	-----	---	----------	---	---	Sd	Pl	----	---	N	------	Spring; discharge measured 21 gpm, 3-28-57; Ca.
5P2	--------do--------	----------	--------	655	--	-----	---	----------	---	---	Sd	Pl	----	---	N	------	Spring; discharge measured 3 gpm, 3-28-57; Ca.
6C1	Indiana State Highway Department	Testing Service Corp.	--------	633	B	46	2½	----------	---	---	Sd,G	Pl	----	---	T	------	See log well 6C3.
6C2	--------do--------	---------do---------	--------	632	B	52	2½	----------	---	---	Sd,G	Pl	----	---	T	------	Do.
6C3	--------do--------	---------do---------	--------	635	D	55	2½	----------	---	---	Sd,G	Pl	----	---	T	------	L, S.
6C4	--------do--------	---------do---------	--------	634	B	52	2½	----------	---	---	Sd,G	Pl	----	---	T	------	See log well 6C3.
6C5	--------do--------	---------do---------	--------	633	D	52	2½	----------	---	---	Sd,G	Pl	----	---	T	------	Do.
6E1	--------do--------	---------do---------	--------	642	B	62	2½	----------	---	---	Sd,G	Pl	----	---	T	------	L.
6E2	--------do--------	---------do---------	--------	642	D	56	2½	----------	---	---	Sd	Pl	----	---	T	------	See log well 6E3.
6E3	--------do--------	---------do---------	--------	643	D	56	2½	----------	---	---	Sd,G	Pl	----	---	T	------	L.
6E4	--------do--------	---------do---------	--------	643	B	54	2½	----------	---	---	G	Pl	----	---	T	------	L.
6P1	Wonder Well Farm	----------	1936	655	Da, B	52	12	Oo	50	2	Sd,G	Pl	C	---	N	------	Discharge measured 60 gpm, 3-21-57; originally bored as 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: Depth to top (feet)	Water-bearing zone: Thickness (feet)	Water-bearing zone: Character	Water-bearing zone: Geologic age	Water-bearing zone: Conditions of occurrence	Water level (feet)	Use	Type of pump and horsepower	Remarks
37/3W- 7D1	F. DeWolf	A. Good	--------	665	J	72	2	----------	70	2	Sd,G	Pl	C	+7	D	------	Discharge estimated 5 gpm, 3-21-57; sand and gravel overlain by 70 ft clay and hardpan.
8F1	L. Scott	Shell Oil Co.	1941	755	Dr	415	---	----------	---	---	-----	--	----	---	---	------	Oil test; bedrock at 230 ft; 280 ft shale underlain by 3 ft limestone and 2 ft dolomite.
8J1	F. Mazzukelly	Lakeland Well Drillers	6-14-56	770	J	130	3	S; 7ft, 80g, dia 2	---	---	Sd	Pl	----	30	---	1	
9N1	N. Josch	--------	--------	785	J	98	2	S; 3ft, 60g, dia 1	---	---	G	Pl	----	73	D	L1/2	Yield 4 gpm.
9R1	S. Armentrout	----------	10-25-54	800	J	110	2	S; 4½ft, 80g, dia 1	---	---	Sd	Pl	----	---	---	------	Yield 5 gpm; Ca.
9R2	R. Wheatbrook	Hunts Hoosier Hardware	3- 7-58	800	J	90	2	S; 4½ft, 80g, dia 1	---	---	Sd	Pl	----	65	D	------	Yield 13 gpm; Ca, L.
10N1	Dr. Kosling	----------do----------	1-17-57	855	J	102	2	----------do----------	84	18	Sd	Pl	U	84	D	------	Yield 13 gpm; L.
11A1	L. Kozlowski	----------	--------	---	--	-----	---	----------	---	---	Sd	Pl	----	---	---	------	Spring, flows only during wet seasons.
11H1	Mr. Fritzen	Shell Oil Co.	1941	774	B	438	---	----------	---	---	-----	--	----	---	---	------	Oil test; bedrock at 348 ft: 85 ft shale underlain by 5 ft dolomite.
11J1	Indiana Toll Road Commission	KOF Foundation Test Borings, Inc.	5-18-54	780	B	38	---	----------	14	24	Sd	Pl	C	7	T	------	L.
11J2	-------do--------	----------do----------	5-18-54	780	B	25	---	----------	7	18	Sd	Pl	U	7	T	------	See log well 11J6.
11J3	-------do--------	----------do----------	4- 6-54	792	B	45	---	----------	20	25	Sd	Pl	U	20	T	------	Do.
11J4	-------do--------	----------do----------	4- 5-54	794	D	80	---	----------	---	---	Sd	Pl	----	---	T	------	L.
11J5	-------do--------	----------do----------	4- 7-54	788	B	45	---	----------	17	28	Sd	Pl	U	17	T	------	See log well 11J6.
11J6	-------do--------	----------do----------	4- 3-54	791	B	50	---	----------	---	---	Sd	Pl	----	---	T	------	L.
11J7	-------do--------	----------do----------	4-10-54	797	B	41	---	----------	---	---	Sd	Pl	----	---	T	------	See log well 11J6.
11J8	-------do--------	----------do----------	5-18-54	778	B	35	---	----------	29	6	Sd	Pl	C	2	T	------	L.
11K1	-------do--------	----------do----------	1954	858	D	55	---	----------	42	9	Sd	Pl	U	42	T	------	L.
11K2	-------do--------	----------do----------	1954	841	B	35	---	----------	---	---	-----	--	----	---	T	------	No water reported; L.
11N1	-------do--------	Layne-Northern Co., Inc.	5-23-55	845	Dr	186	6	S; 20ft, 10sl	164	22	Sd	Pl	C?	89	P	------	Dd 14 ft after 8 hr pumping 50 gpm; Ca, L.
11P1	-------do--------	KOF Foundation Test Borings, Inc.	5-14-54	848	B	50	---	----------	---	---	Sd	Pl	U	21	T	------	L.
11P2	-------do--------	----------do----------	5-13-54	847	D	35	---	----------	---	---	-----	--	----	---	T	------	No water reported; see log well 11P1.
11P3	-------do--------	----------do----------	5-11-54	846	B	35	---	----------	---	---	Sd	Pl	C	5	T	------	See log well 11P1.
11P4	-------do--------	----------do----------	5-12-54	848	B	40	---	----------	---	---	-----	--	----	---	T	------	No water reported; see log well 11P1.
11P5	-------do--------	----------do----------	5-14-54	845	B	40	---	----------	---	---	-----	--	----	---	T	------	Do.
11Q1	-------do--------	----------do----------	1954	862	D	50	---	----------	---	---	-----	--	----	---	T	------	Do.
12A1	R. Marshall	Hunts Hoosier Hardware	8-25-54	775	J	29	2	S	9	20	Sd	Pl	U	9	D	J1/2	Yield 15 gpm; brown sand from 0-29 ft; Ca.
12F1	Indiana Toll Road Commission	KOF Foundation Test Borings, Inc.	6-10-54	772	D	25	---	----------	9	16	Sd	Pl	U	9	T	------	Silty sand from 0-25 ft.
12N1	-------do--------	----------do----------	5-22-54	848	D	20	---	----------	---	---	-----	--	----	---	T	------	No water reported; L.
12N2	-------do--------	----------do----------	4-17-54	836	B	50	---	----------	---	---	-----	--	----	---	T	------	Do.
12N3	-------do--------	----------do----------	4-10-54	834	D	45	---	----------	---	---	-----	--	----	---	T	------	Lost water at 28 ft; see log well 12N2.
12N4	-------do--------	----------do----------	4-20-54	839	B	34	---	----------	---	---	-----	--	----	---	T	------	See log well 12N2.
12N5	-------do--------	----------do----------	4-21-54	836	D	30	---	----------	16	14	Sd,G	Pl	U	16	T	------	Do.
12N6	-------do--------	----------do----------	4-20-54	830	B	35	---	----------	10	25	Sd	Pl	U	10	T	------	L.
12N1	-------do--------	----------do----------	4- 8-54	789	B	45	---	----------	18	27	Sd	Pl	U	18	T	------	Silty fine to medium sand from 0-45 ft.
12N2	-------do--------	----------do----------	4- 9-54	793	D	42	---	----------	18	24	Sd	Pl	U	18	T	------	Silty fine to medium sand from 0-42 ft.
12N3	-------do--------	----------do----------	4- 9-54	795	D	50	---	----------	---	---	Sd	Pl	----	---	T	------	L.
13L1	S. Trofanowski	Hunts Hoosier Hardware	10- 8-58	845	J	74	2	S; 4ft, 60g, dia 1	61	13	Sd,G	Pl	U	61	D	J1/2	Yield 13 gpm; L.
14D1	Indiana Toll Road Commission	KOF Foundation Test Borings, Inc.	4-15-54	875	B	45	---	----------	13	13	Sd	Pl	U	13	T	------	L.
14D2	-------do--------	----------do----------	4-16-54	874	D	35	---	----------	9	17	Sd	Pl	U	9	T	------	See log well 14D1.

37/3W-14D1	Indiana Toll Road Commission	KOF Foundation Test Borings, Inc.	4-13-54	871	B	42	---	----------	---	---	Sd	Pl	----	4	T	------	L.
14J1	S. T. Condoro	Hunts Hoosier Hardware	9-17-54	845	J	86	2	S; 4ft, 60g	72	14	G,Sd	Pl	U	72	D	L	Yield 15 gpm; Ca, L.
15A1	Indiana Toll Road Commission	KOF Foundation Test Borings, Inc.	4-15-54	869	D	40	---	----------	32	8	Sd	Pl	C	2	T	------	L.
15A2	-------do--------	---------do---------	4-17-54	875	D	50	---	----------	12	22	Sd	Pl	U	12	T	------	L.
15A3	-------do--------	---------do---------	4-14-54	872	D	35	---	----------	21	14	Sd	Pl	C	2	T	------	See log well 15A4.
15A4	-------do--------	---------do---------	4-14-54	869	D	40	---	----------	23	17	Sd	Pl	C	2	T	------	L.
15A5	-------do--------	---------do---------	4-13-54	875	D	50	---	----------	---	---	Sd	Pl	----	12	T	------	L.
15F1	-------do--------	---------do---------	5-29-54	857	B	50	---	----------	---	---	------	--	----	---	T	------	No water reported; see log well 15F6.
15F2	-------do--------	---------do---------	5-26-54	845	B	40	---	----------	---	---	------	--	----	---	T	------	Do.
15F3	-------do--------	---------do---------	5-28-54	862	B	70	---	----------	---	---	------	--	----	---	T	------	Do.
15F4	-------do--------	---------do---------	5-27-54	847	B	41	---	----------	---	---	------	--	----	---	T	------	Do.
15F5	-------do--------	---------do---------	5-25-54	852	B	40	---	----------	---	---	------	--	----	---	T	------	Do.
15F6	-------do--------	---------do---------	5-27-54	854	B	60	---	----------	---	---	------	--	----	---	T	------	No water reported; L.
15F7	-------do--------	---------do---------	5-26-54	846	B	40	---	----------	---	---	------	--	----	---	T	------	No water reported; see log well 15F6.
15F8	-------do--------	---------do---------	5-26-54	859	B	71	---	----------	---	---	------	--	----	---	T	------	No water reported; L.
15F9	-------do--------	---------do---------	5-26-54	846	B	40	---	----------	---	---	------	--	----	---	T	------	No water reported; see log well 15F8.
15F10	-------do--------	---------do---------	5-26-54	856	B	41	---	----------	---	---	------	--	----	---	T	------	Do.
15H1	J. Johnson	Hunts Hoosier Hardware	3-22-57	885	J	164	2	S; 4½ft, 60g, dia 1	---	---	Sd	Pl	----	101	D,S	J1	Yield 5 gpm; Ca, L.
15J1	Mr. Shutler	Shell Oil Co.	1941	859	Dr	487	---	----------	---	---	------	--	----	---	---	------	Oil test; bedrock at 351 ft; 131 ft shale underlain by 5 ft dolomite.
16D1	Mr. Noah	J. Dill	7-12-54	920	J	188	2	S; 80g	182	8	Sd	Pl	C	135	D	J1	Yield 10 gpm; L.
16E1	A. Schultz	Hunts Hoosier Hardware	3-12-59	920	J	160	2	S; 5ft, 80g, dia 1	130	30	Sd,G	Pl	U	130	---	------	L.
16F1	J. Koziol	---------do---------	8-10-59	920	J	154	2	---------do---------	130	24	Sd	Pl	U	130	D,S	------	L.
16G1	T. Koel	---------do---------	8-53	920	J	142	2	S; 80g	130	12	Sd	Pl	----	130	D	J1	Ca.
16K1	La Porte Heating Co.	---------do---------	7-23-54	900	J	138	2	S; 4ft, 80g	122	16	Sd,G	Pl	U	122	N	------	Yield 15 gpm; white sand and gravel overlain by 36 ft clay.
16K2	W. Terry	Mr. Harnthouse	9-54	910	J	145	2	S; 5ft, 80g	---	---	Sd	Pl	----	138	D	L	Yield 8 gpm; L.
16K3	American Telephone and Telegraph Co.	Westville Well Co.	12-31-53	920	J	165	2	S; 4½ft	---	---	Sd	Pl	----	110	---	------	
16K4	Indiana Toll Road Commission	KOF Foundation Test Borings, Inc.	6- 8-54	890	D	45	---	----------	---	---	Sd	Pl	C	12	T	------	See log well 16K10.
16K5	-------do--------	---------do---------	6- 4-54	887	B	45	---	----------	---	---	------	--	----	---	T	------	No water reported; see log well 16K10.
16K6	-------do--------	---------do---------	6- 5-54	890	D	85	---	----------	34	31	Sd	Pl	C	1	T	------	L.
16K7	-------do--------	---------do---------	6- 4-54	884	B	52	---	----------	---	---	------	--	----	---	T	------	No water reported; L.
16K8	-------do--------	---------do---------	6- 8-54	886	B	45	---	----------	---	---	Sd	Pl	C	11	T	------	See log well 16K10.
16K9	-------do--------	---------do---------	6- 8-54	884	B	40	---	----------	33	7	Sd	Pl	C	12	T	------	Do.
16K10	-------do--------	---------do---------	6- 4-54	883	B	50	---	----------	---	---	------	--	----	---	T	------	No water reported; L.
16K11	-------do--------	---------do---------	6- 7-54	882	B	40	---	----------	38	2	Sd	Pl	C	7	T	------	See log well 16K10.
16K12	-------do--------	---------do---------	6- 7-54	881	B	50	---	----------	---	---	------	--	----	---	T	------	No water reported; see log well 16K7.
16K13	-------do--------	---------do---------	6- 8-54	879	B	45	---	----------	---	---	------	--	----	---	T	------	No water reported; see log well 16K10.
16L1	P. Schofield	Hunts Hoosier Hardware	Fall 1955	920	J	145	2	S; 5ft, 80g	140	10	Sd,G	Pl	C	135	D	------	Yield 15 gpm; L.
18C1	C. Bassett	J. Dill	8-55	740	J	76	4	S; 60g	68	8	Sd	Pl	C	8	---	------	For pond; sand overlain by 68 ft blue clay; Ca.
18D1	W. Kossler	---------do---------	10-55	745	J	40	2	-------do--------	15	25	Sd	Pl	U	15	D	L1/4	Yield 6 gpm; sand from 0-40 ft.
18E1	A. Masolbas	---------do---------	7- 1-53	745	J	80	2	S; 2½ft, 80g	30	50	Sd	Pl	U	30	D	L	Yield 10 gpm; fine sand overlain by 20 ft rod clay.
18G1	V. Janzaruk	Hunts Hoosier Hardware	5-20-58	775	J	82	2	S; 3ft	70	12	Sd	Pl	C	40	---	------	L.
18N1	R. W. Scott	H. Hopa	11-14-51	800	J	70	2	S; 4ft, 60g	---	---	Sd	Pl	----	---	D	------	
19C1	P. Paul	---------do---------	Fall 1952	815	J	165	2	S; 60g	---	---	Sd	Pl	----	---	D	J	
19J1	Summit Prison Farm	----------	--------	910	Dr	267	6	S; 4ft, 60g, dia 3	---	---	Sd,G	Pl	----	143	P,S	------	Dd 5 ft pumping 10 gpm.
19J2	-------do--------	Indiana-Michigan Water Development Co.	3-25-38	910	Dr	264	6	S; 8ft, 30sl, dia 4½	221	43	Sd,G	Pl	C	143	P,S	T7-1/2	Dd 10 ft pumping 120 gpm; L.
19J3	-------do--------	---------do---------	9-20-41	910	Dr	275	6	S; 15ft, 8sl, dia 4	232	43	Sd	Pl	C	145	N	------	L.
19J4	-------do--------	---------do---------	4- 7-50	910	Dr	177	8	S; 15ft, 12sl, dia 7½	140	37	Sd,G	Pl	C	140	P,S	T10	L.
19J5	-------do--------	Layne-Northern Co., Inc.	9-23-55	905	Dr	200	6	S; 20ft	---	---	Sd	Pl	----	128	P,S	T	Dd 32 ft after 8 hrs pumping 120 gpm; Ca, L.
19M1	T. Nedza	J. Dill	8-55	---	J	190	2	S; 60g	185	5	Sd	Pl	C	105	D	J1	Yield 6 gpm; sand overlain by 185 ft blue clay mixed with sand.
20F1	L. W. Hoploglo	---------do---------	--------	890	J	200	2	----------	---	---	Sd	Pl	----	121	D,S	------	
20F2	-------do--------	Shell Oil Co.	1941	871	Dr	499	---	----------	---	---	------	--	----	---	---	------	Oil test; bedrock at 320 ft; 177 ft shale underlain by 2 ft dolomite.
20H1	Indiana Toll Road Commission	Westville Engineering Co.	4-28-54	861	D	40	---	----------	9	31	Sd	Pl	U	9	T	------	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					Water level (feet)	Use	Type of pump and horsepower	Remarks
									Depth to top (feet)	Thickness (feet)	Character	Geologic age	Conditions of occurrence				
37/3W-20H2	Indiana Toll Road Commission	Westville Engineering Co.	4-29-54	858	D	41	---	----------	18	23	Sd,G	Pl	U	18	T	------	L.
20H3	-------do--------	---------do---------	4-29-54	861	B	44	---	----------	25	19	Sd	Pl	U	25	T	------	L.
20H4	-------do--------	---------do---------	4-28-54	860	B	40	---	----------	---	---	Sd	Pl	----	19	T	------	L.
20H5	-------do--------	---------do---------	4-30-54	859	B	26	---	----------	14	12	Sd	Pl	----	14	T	------	L.
20H6	-------do--------	---------do---------	4-28-54	858	B	40	---	----------	18	22	Sd,G	Pl	U	18	T	------	L.
21G1	H. Fredrick	----------	--------	850	--	75	2	S; 3ft, 60g	---	---	Sd	Pl	----	57	D	J1/2	Yield 6 gpm.
21G2	W. Sowers	D. Lantz	--------	850	J	74	2	S; 3½ft, 60g dia 1½	---	---	Sd	Pl	----	49	D	1/2	
21J1	W. H. Johnson	Westville Well Co.	4- 8-56	850	J	95	2	S; 4½ft	---	---	Sd	Pl	----	---	---	------	
21J2	H. B. Richardson	Hunts Hoosier Hardware	1- 9-59	850	J	73	2	S; 5ft, 60g, dia 1	54	19	Sd,G	Pl	U	54	---	------	L.
21L1	R. O. Knoll	---------do---------	4-15-55	860	J	76	2	S; 3½ft, 60g, dia 1	60	16	Sd,G	Pl	C	47	D	J1/2	Yield 13 gpm; white sand and gravel overlain by 60 ft gravelly clay.
21R1	R. Danielson	---------do---------	11- 4-57	845	J	78	2	S; 4ft, 60g, dia 1	70	6	Sd	Pl	C	54	D	------	Yield 13 gpm; L.
22E1	F. Scott	Shell Oil Co.	1941	830	Dr	453	---	----------	---	---	-----	--	----	---	---	------	Oil test; bedrock at 280 ft; 159 ft shale underlain by 14 ft dolomite.
22K1	B. Diehl	Westville Well Co.	7-27-56	810	--	100	2	S; 4½ft	---	---	Sd	Pl	----	---	---	------	
22M1	Fraternal Order of Elks	Layne-Northern Co., Inc.	5-19-45	850	Dr	92	12	S; 8ft	56	30	Sd	Pl	U	56	P	------	Dd 25 ft pumping 160 gpm; dirty sand from 0-92 ft.
22N1	D. Clendenen	----------	--------	845	J	117	2	S; 3ft, 60g, dia 1	---	---	Sd	Pl	----	75	D,S	1/2	
22N2	C. Ellis	----------	10-27-54	830	--	70	2	S	---	---	Sd	Pl	----	30	D	1/2	
22N3	R. Chipman	Hunts Hoosier Hardware	4-18-55	845	J	78	2	S; 4½ft, 60g, dia 1	72	6	Sd,G	Pl	C	55	D	------	Yield 13 gpm; L.
22Q1	Pine Lake Cemetery	Sriver Drilling Co.	--------	815	J	43	3	S; 6ft, 60g, dia 2	---	---	Sd	Pl	----	2	---	------	Ca.
23R1	M. Swanson	J. Dill	3-56	800	J	68	2	S; 60g	60	6	G	Pl	C	52	---	------	Gravel overlain by 60 ft red clay and gravel; temp 55.
24C1	T. Rose	Hunts Hoosier Hardware	10- 4-57	830	J	77	2	S; 4½ft, 60g, dia 1	---	---	Sd,G	Pl	----	55	S	L	Yield 13 gpm; Ca, L.
24N1	D. Read	Mr. Barnthouse	5-54	800	J	46	2	S; 3½ft, 60g	37	9	G	Pl	C	14	D	J	Yield 15 gpm; L.
24N2	W. Kowalczyk	Westville Well Co.	4-24-56	815	J	79	2	S; 4½ft	---	---	Sd	Pl	----	---	D	------	
24N3	D. Deuitch	Mr. Barnthouse	8-11-53	800	J	74	2	S; 3ft, 60g, dia 1	61	13	Sd	Pl	C	34	D	J1/2	Yield 6 gpm; medium sand overlain by 61 ft red clay and gravel.
24P1	L. D. Keller	Hunts Hoosier Hardware	2- 8-56	815	J	55	2	S; 3½ft, 60g, dia 1	---	---	Sd,G	Pl	----	40	D	------	Yield 13 gpm; Ca, L.
25B1	T. Rose	Shell Oil Co.	1941	816	Dr	432	---	----------	---	---	-----	--	----	---	---	------	Oil test; bedrock at 208 ft; 219 ft shale underlain by 5 ft dolomite.
26D1	E. Redding	Hunts Hoosier Hardware	4-55	825	J	35	2	S; 4½ft, 60g, dia 1	18	17	Sd,G	Pl	U	18	D	J1/2	Yield 13 gpm; white sand and gravel overlain by 30 ft black dirt and brown sand.
26E1	Mr. Kabelin	Shell Oil Co.	1941	823	Dr	442	---	----------	---	---	-----	--	----	---	---	------	Oil test; bedrock at 235 ft; 201 ft shale underlain by 6 ft dolomite.
26J1	T. Tate	H. Hope	5-13-52	825	J	71	2	S; 4ft, 60g	---	---	Sd	Pl	----	---	D	------	
26J2	R. Gropp	Hunts Hoosier Hardware	7-28-56	825	J	70	2	S; 4½ft, 60g, dia 1	65	5	Sd,G	Pl	C	32	D	J	Ca, L.
27F1	B. Sommerfield	Mr. Barnthouse	4-54	805	J	45	2	S; 4ft, 40sl, dia 1	33	12	Sd	Pl	C	14	D	1/4	Yield 11 gpm; L.
27G1	F. Wilhelm	Hunts Hoosier Hardware	10-20-56	805	J	86	2	S; 5½ft, 60g, dia 1	78	8	Sd,G	Pl	C	6	D	------	Yield 13 gpm; L.
27G2	M. Albrecht	---------do---------	10-25-56	805	J	117	2	S; 4½ft, 60g, dia 1	108	9	G	Pl	C	6	D	J1/3	Yield 13 gpm; Ca, L.
27J1	La Porte Lake Development Assoc.	Layne-Northern Co., Inc.	4- 7-52	805	Dr	755	6	----------	---	---	Sd,G	Pl	----	---	T	------	Bedrock at 245 ft; L.
27M1	H. Webb	H. Hope	10-16-51	820	J	97	2	S; 60g	---	---	Sd	Pl	----	---	D	J1/2	
27M2	C. Dunzion	Westville Well Co.	8-13-56	820	J	69	2	S; 4½ft	---	---	Sd	Pl	----	---	---	------	Ca.
28A1	R. Guenther	Sriver Drilling Co.	5-25-54	835	J	73	4	S; 6ft, 60g, dia 2½	---	---	Sd	Pl	----	26	D	------	
28A2	Mr. Baldwin	Westville Well Co.	8-16-56	835	J	74	2	S; 4½ft	---	---	Sd	Pl	----	---	---	------	
28H1	N. Reeg	Hunts Hoosier Hardware	8- 6-56	810	J	76	2	S; 4ft, 60g, dia 1	18	58	Sd,G	Pl	C	10	D	L	Yield 13 gpm; white sand and gravel overlain by 18 ft dirt, sand and clay.
28R1	T. Ogle	Mr. Barnthouse	6-25-54	815	J	55	2	S; 4ft, 40g	38	17	Sd	Pl	C	14	D	J	Yield 14 gpm; L.
28R2	-------do--------	Hunts Hoosier Hardware	11-25-55	815	J	75	2	S; 4½ft, 60g, dia 1	---	---	Sd,G	Pl	----	18	D	J1/2	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: Depth to top (feet)	Water-bearing zone: Thickness (feet)	Water-bearing zone: Character	Water-bearing zone: Geologic age	Water-bearing zone: Conditions of occurrence	Water level (feet)	Use	Type of pump and horsepower	Remarks
37/4W- 3R1	R. Pagels	Hunts Hoosier Hardware	6-10-56	655	J	57	2	S; 4½ft, 60g, dia 1	51	6	Sd,G	Pl	C	23	D	L	Yield 13 gpm; white sand and gravel overlain by 51 ft blue clay; Ca.
4N1	Interstate Glass House Restaurant	Indiana-Michigan Water Development Co.	5- 6-39	643	Dr	131	6	S; 15ft, 30sl, dia 5½	89	42	Sd	Pl	----	---	P, Ac	S	Dd 33 ft pumping 100 gpm; L.
5A1	Meyer Drugs	Westville Well Co.	--------	625	Dr	320	6	----------	---	---	Ls?	D?	----	---	Ac	S	Yield 30 gpm.
5H1	J. Ruby	Indiana-Michigan Water Development Co.	7-20-38	632	Dr	147	6	S; 16ft, 12sl, dia 5½	105	38	Sd	Pl	C	+7	D	Tl-1/2	Dd 10 ft pumping 120 gpm; Ca, L.
5P1	Arno Adhesive Tapes, Inc.	Layne-Northern Co., Inc.	4-12-55	630	Dr	155	16-8	----------	---	---	-----	--	----	---	Do	------	Bedrock at 153 ft; L.
5P2	L. Dunn	H. Hope	Winter 1951	635	J	120	2	S; 60g	---	---	Sd	Pl	C	+6	D	J3/4	Flowed; Ca.
7A1	Northwest Transit Co.	Lakeland Well Drillers	4- 3-57	640	Dr	98	4	S; 3ft, 60g	94	4	Sd	Pl	C	5	I,P	J11	Dd 50 ft after about 4 hr pumping 15 gpm; L.
7B1	Indiana State Prison	Layne-Northern Co., Inc.	7- 2-54	635	Dr	67	6	S; 10ft, dia 5½	57	10	Sd	Pl	C	0	I	T2	Dd 20 ft pumping 40 gpm; Ca, L.
7H1	M. Dukowski	Indiana-Michigan Water Development Co.	1-11-45	640	Dr	92	4	S; 6ft, 60g, dia 3	---	---	Sd	Pl	C	0	---	P	Dd 15 ft pumping 4 gpm; bedrock at 180 ft; L.
9D1	H. L. Silcox	----------	--------	658	J	52	2	S; 3½ft, 80g, dia 1	---	---	Sd	Pl	----	20	D	J	Ca.
9D1	Rapp and Rapp	B. J. Moore and Son	9-21-48	643	J	120	2	S; 60g	74	46	Sd	Pl	----	---	---	------	L.
9M1	Michigan City Municipal Airport	Westville Well Co.	0- 3-56	660	J	54	2	S; 4½ft	---	---	Sd	Pl	----	---	P	P	
9Q1	A. Kolodief	Lakeland Well Drillers	7- 8-56	655	J	100	2	----------	---	---	Sd	Pl	----	---	D	------	
10P1	K. McKee	----------	--------	650	J	68	2	S; 3ft, 60g, dia 1	---	---	Sd,G	Pl	----	5	D	J1/2	Yield 8 gpm; Ca.
11C1	C. Hyener	Westville Well Co.	4-16-56	630	J	86	2	S; 4½ft	---	---	Sd	Pl	----	---	D	------	Ca.
11F1	Indiana State Highway Department	Testing Service Corporation	--------	617	D	32	2½	----------	---	---	-----	--	----	---	T	------	See log well 11F6.
11F2	--------do--------	---------do---------	--------	617	B	32	2½	----------	---	---	-----	--	----	---	T	------	Do.
11F3	--------do--------	---------do---------	--------	617	B	34	2½	----------	---	---	-----	--	----	---	T	------	Do.
11F4	--------do--------	---------do---------	--------	617	D	32	2½	----------	---	---	-----	--	----	---	T	------	Do.
11F5	--------do--------	---------do---------	--------	617	B	32	2½	----------	---	---	-----	--	----	---	T	------	Do.
11F6	--------do--------	---------do---------	--------	619	B	34	2½	----------	---	---	-----	--	----	---	T	------	L, S.
11G1	--------do--------	---------do---------	--------	619	D	34	2½	----------	---	---	Sd	Pl	----	4	T	------	L, S.
11G2	--------do--------	---------do---------	--------	618	B	32	2½	----------	---	---	Sd	Pl	----	5	T	------	See log well 11G1.
11G3	--------do--------	---------do---------	--------	618	B	32	2½	----------	2	12	Sd	Pl	U	2	T	------	L.
11G4	--------do--------	---------do---------	--------	618	B	32	2½	----------	2	13	Sd	Pl	U	2	T	------	See log well 11G3.
11K1	A. Coffor	J. Dill	4-16-54	648	J	51	2	Oo	51	2	G	Pl	C	+5	D	------	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 lsd, 3-28-57; Ca, L.
11Q1	R. Rotcher	Lakeland Well Drillers	3- 9-57	645	J	22	2	S; 3ft, 60g, dia 1	6	16	Sd	Pl	U	6	D	------	Sand from 0-22 ft.
11Q2	O. Clough	Hunts Hoosier Hardware	10- 5-57	645	J	29	2	S; 4½ft, 60g, dia 1	16	13	Sd	Pl	U	16	D	------	Yield 13 gpm; white sand overlain by 23 ft brown sand.
11R1	Mr. Kring	H. Hope	Fall 1953	645	J	90	3	S; 40g, dia 2	---	---	G,Sd	Pl	C	---	Ir	Tl-1/2	Flows; for fire protection.
11R2	Mr. Farris	---------do---------	Summer 1955	640	J	92	2	Oo	---	---	Sd,G	Pl	C	---	D	------	Flowed.
12A1	Michigan City Bait Co.	Lakeland Well Drillers	10-12-56	650	Dr	50	4	----------	36	14	Sd	Pl	C	---	---	------	Flowed 200 gpm; sand overlain by 36 ft clay.
12B1	H. Smith	J. Dill	8-47	655	J	83	3	----------	---	---	Sd	Pl	C	+21	D	------	Flowed 55 gpm.
12D1	G. Cox	Hunts Hoosier Hardware	6-11-56	640	J	32	2	S; 4½ft, 80g, dia 1	16	18	Sd,G	Pl	U	18	D	J1/3	Yield 13 gpm; L.
12H1	O. Bradley	Lakeland Well Drillers	--------	---	J	72	2	S; 4ft, 80g, dia 1	---	---	Sd	Pl	----	---	---	------	Flowed.
12J1	C. Kindig	Hunts Hoosier Hardware	6-19-57	700	J	47	2	S; 4ft, 60g, dia 1	34	13	Sd,G	Pl	C	18	D	------	L.
12Q1	H. Lingus	J. Dill	8-56	675	J	53	3	S; 5ft, 60g	45	8	Sd	Pl	C	12	D	------	L.

37/3W-28R3	T. Ogle	Hunts Hoosier Hardware	12-30-55	815	J	58	2	S; 3½ft, 60g, dia 1	18	40	Sd,G	Pl	U	18	D	J1/2	Yield 13 gpm; white sand and gravel overlain by 52 ft brown sand, gravel, and black dirt.
28R4	A. Bowman	J. Dill	11-55	820	J	69	2	S; 60g	67	5	Sd	Pl	C	32	D	------	Temp 55; L.
20I1	H. Anderson	---------do---------	6-55	865	J	87	2	S; 3ft, 60g	80	7	G	Pl	C	70	D,S	P	Yield 12 gpm; fine gravel overlain by 80 ft red clay and gravel; Ca.
29E2	Indiana Toll Road Commission	Westville Engineering Co.	4-30-54	869	B	50	---	----------	41	9	Sd	Pl	U	41	T	------	L.
29E3	--------do--------	---------do---------	1954	868	D	40	---	----------	---	---	-----	--	----	---	T	------	No water reported; see log well 29E5.
29E4	--------do--------	---------do---------	1954	869	D	50	---	----------	---	---	-----	--	----	---	T	------	See log well 29E2.
29E5	--------do--------	---------do---------	1954	870	D	50	---	----------	---	---	-----	--	----	---	T	------	L.
29F1	R. Kuhn	Hunts Hoosier Hardware	4- 1-58	850	J	128	2	S; 6ft, 60g, dia 1	120	8	Sd	Pl	C	85	D	------	L.
29H1	F. Klose	----------	--------	845	J	70	2	S; 3½ft, 60g, dia 1	---	---	Sd	Pl	----	38	D,S	J1/2	Yield 8 gpm.
29J1	Mr. Orr	Shell Oil Co.	1941	842	Dr	493	---	----------	---	---	-----	--	----	---	---	------	Oil test; bedrock at 308 ft; 175 ft shale underlain by 10 ft dolomite.
29L1	G. Engstrom	Hunts Hoosier Hardware	6-28-58	845	J	98	2	S; 5ft, 60g, dia 1	---	---	Sd	Pl	----	75	D	------	L.
30H1	Indiana Toll Road Commission	Westville Engineering Co.	1954	847	D	42	---	----------	---	---	-----	--	----	---	T	------	No water reported; L.
31D1	--------do--------	---------do---------	5- 2-54	865	B	46	2½	----------	---	---	-----	--	----	---	T	------	Do.
31D2	--------do--------	---------do---------	5- 4-54	865	B	42	2½	----------	---	---	-----	--	----	---	T	------	No water reported; see log well 31D1.
31D3	--------do--------	---------do---------	5- 3-54	865	B	60	2½	----------	---	---	-----	--	----	---	T	------	No water reported; see log well 31D4.
31D4	--------do--------	---------do---------	5- 4-54	864	B	60	---	----------	---	---	-----	--	----	---	T	------	L.
31D5	--------do--------	---------do---------	5- 3-54	864	B	60	2½	----------	---	---	-----	--	----	---	T	------	L.
31D6	--------do--------	---------do---------	5- 4-54	860	B	60	2½	----------	---	---	-----	--	----	---	T	------	No water reported; see log well 31D4.
31D7	--------do--------	---------do---------	1954	862	B	30	---	----------	---	---	-----	--	----	---	T	------	No water reported; L.
31J1	J. Kramer	----------	--------	855	J	92	2	----------	---	---	Sd	Pl	----	30	D,S	J3/4	Yield 8 gpm.
31J2	K. Kramer	J. Dill	6-58	855	J	75	2	S; 3ft, 60g	70	5	Sd	Pl	C	57	D	------	Sand overlain by 70 ft clay and gravel.
31L1	Mr. Lewis	Mr. Barnthouse	4- 2-54	855	J	94	2	S; 60g	81	13	Sd	Pl	C	42	D,S	3/4	Yield 8 gpm; Ca, L.
33K1	R. Swanson	----------	--------	840	J	61	2	S; 3½ft, 60g, dia 1	---	---	Sd	Pl	----	18	D	1/2	Ca.
33L1	J. Chalik	Layne-Northern Co., Inc.	4-29-49	835	Dr	75	8	S; 10ft, dia 6	31	45	Sd,G	Pl	U	31	S	T5	Dd 21 ft pumping 265 gpm; Ca, L.
33R1	S. Jasko	Westville Well Co.	8- 1-56	835	J	95	3	S; 4½ft	---	---	Sd	Pl	----	---	D	------	
34E1	A. Grochowick	Hunts Hoosier Hardware	2- 6-56	840	J	83	2	S; 3½ft, 60g, dia 1	---	---	Sd,G	Pl	----	45	D	J	Yield 13 gpm; see log well 34E2.
34E2	C. A. Zimmerman	---------do---------	7-10-59	840	J	72	2	S; 4ft, 60g, dia 1	50	22	Sd,G	Pl	C	35	D	------	L.
34P1	City of La Porte	---------do---------	6-19-58	800	J	84	2	--------do---------	---	---	Sd,G	Pl	----	28	P	L	Ca, L.
35G1	Shreve Construction Co.	Layne-Northern Co., Inc.	10-15-51	807	Dr	51	---	----------	---	---	-----	--	----	---	T	------	L.
35L1	City of La Porte	---------do---------	3-24-42	807	Dr	89	---	----------	15	74	Sd,G	Pl	U	15	T	------	See log well 35L3.
35L2	--------do--------	---------do---------	3-26-48	807	Dr	92	---	----------	---	---	Sd,G	Pl	----	---	T	------	L.
35L3	--------do--------	---------do---------	4- 8-48	807	Dr	124	8-6	----------	12	112	Sd,G	Pl	U	12	T	------	L.
35L4	--------do--------	---------do---------	6-18-48	807	Dr	132	38	Gp; 5; 40ft, 80sl, dia 18	11	121	Sd,G	Pl	U	11	N	------	Dd 51.5 ft after 5 hr pumping 1,700 gpm; L.
35L5	--------do--------	---------do---------	1-25-51	807	Dr	30	12	----------	---	---	Sd	Pl	U	---	N	------	For dewatering; muddy hard sand from 0-30 ft.
36C1	--------do--------	---------do---------	10- 1-48	807	Dr	138	8-6	----------	---	---	Sd,G	Pl	----	---	T	------	L.
36C2	--------do--------	---------do---------	3- 3-51	807	Dr	137	38	Gp; 5; 40ft, 105sl, dia 18	18	122	Sd,G	Pl	U	18	N	T125	Dd 58 ft after 24 hr pumping 2,000 gpm; temp 54; see log well 36C1.
37/4W- 1J1	Indiana State Highway Department	Testing Service Corporation	1958	631	B	32	2½	----------	0	18	Sd	Pl	U	0	T	------	L.
1J2	--------do--------	---------do---------	1958	637	D	32	2½	----------	4	28	Sd,G	Pl	U	4	T	------	See log well 1J3.
1J3	--------do--------	---------do---------	1958	640	B	56	2½	----------	3	36	Sd	Pl	U	3	T	------	L, S.
1J4	--------do--------	---------do---------	1958	642	D	36	2½	----------	4	30	Sd	Pl	U	4	T	------	See log well 1J3.
1J5	--------do--------	---------do---------	1958	637	D	36	2½	----------	4	32	Sd	Pl	U	4	T	------	Light-brown medium sand from 0-36 ft.
1R1	T. H. Tennant	Hunts Hoosier Hardware	8-13-59	660	J	80	2	Oa	80	---	G	Pl	C	---	D	------	Flowed 33 gpm; Ca, L.
2D1	W. Yoater	Lakeland Well Drillers	2- 9-57	645	J	56	2	S; 3½ft, 90g, dia 1¼	---	---	Sd	Pl	U	---	D	J	Sand from 0-56 ft; Ca.
2D2	C. Young	---------do---------	3- 7-57	645	J	53	2	S; 3ft, 80g, dia 1	30	23	Sd	Pl	U	30	D	1/3	Yield 17 gpm; sand from 0-53 ft.
2E1	White Eagles Park	----------	5-26-55	630	J	70	2	----------	---	---	Sd	Pl	----	12	---	1	Yield 10 gpm.
2E2	R. White	Hunts Hoosier Hardware	3-14-57	635	J	40	2	S; 3½ft, 60g, dia 1	---	---	Sd,G	Pl	----	16	D	------	Yield 15 gpm; L.
2F1	Mr. Brizick	---------do---------	8-19-57	630	J	35	2	S; 4½ft, 60g, dia 1	30	5	Sd	Pl	C	15	N	------	Yield 13 gpm; L.
2H1	Ramsey Trailer Sales	Lakeland Well Drillers	6-11-56	635	J	81	2	S; 5½ft, 80g, dia 1	---	---	Sd	Pl	----	---	P	J3/4	Ca.
2K1	V. Kelly	J. Dill	3-56	645	J	48	2	S; 3ft, 60g	42	6	Sd	Pl	C	33	D	J1/2	Yield 8 gpm; temp 56; L.
2R1	S. Dysard	---------do---------	5-55	635	J	50	2	S; 3ft, 80g	45	5	Sd	Pl	C	21	D	J1/2	Yield 12 gpm; temp 55; L.
3A1	Evergreen Baptist Church	---------do---------	5- 1-57	635	J	110	3	S; 10ft, 80g, dia 2	124	16	Sd	Pl	C	40	P	J1-1/2	Yield 17 gpm; L.
3Q1	C. E. Krulik	Hunts Hoosier Hardware	5-25-56	660	J	103	2	S; 4½ft, 80g, dia 1	97	0	G,Sd	Pl	C	30	D	------	Yield 13 gpm; Ca, L.

37/4W-13D1	----------	----------	--------	665	--	-----	---	----------	---	---	Sd	Pl	-----	---	N	-------	Spring; discharge measured 7 gpm, 3-28-57; spring zone 3 ft above creek; eight other springs in zone; combined flow estimated 65 gpm; Ca.
13C1	Mr. Borgstrom	J. Dill	--------	670	J	63	2	S; 60g	---	---	Sd	Pl	-----	18	D	J1/2	
13D1	W. Fishbacker	Westville Well Co.	4-53	665	--	50	2	S; 3ft, 80g	---	---	Sd	Pl	-----	---	D	J1/2	
13D2	J. Schudorick	Hunts Hoosier Hardware	7-15-59	665	J	69	2	S; 5ft, 60g, dia 1	64	5	Sd	Pl	C	14	D	-------	L.
13G1	E. Stolligross	---------do---------	7-22-54	680	J	79	2	S; 4½ft, 60g	70	9	Sd,G	Pl	C	15	P	J1/2	Yield 15 gpm; Ca, L.
13H1	Mr. Herrold	Shell Oil Co.	1941	727	Dr	394	---	----------	---	---	------	--	-----	---	---	-------	Oil test; bedrock at 294 ft; 80 ft shale underlain by 20 ft dolomite.
14J1	Mr. Lasko	J. Dill	1953	---	J	69	3	S; 40g	---	---	Sd,G	Pl	C	---	D	-------	Flowed.
14K1	R. Clough	---------do---------	7- 1-59	670	J	55	2	S; 3ft, 60g, dia 1	48	7	Sd	Pl	C	32	D	-------	L.
14L1	J. Lemons	---------do---------	5-22-54	685	J	30	2	S; 2½ft, 80g	20	10	Sd	Pl	C	12	D, Ir	-------	Yield 8 gpm; L.
14P1	W. Randolph	---------do---------	8-56	700	J	52	2	S; 3ft, 60g	45	7	Sd	Pl	C	25	D	-------	Ca, L.
14Q1	J. Guyer	----------	--------	680	J	44	2	----------	---	---	Sd	Pl	-----	8	---	-------	
15B1	Indiana State Highway Department	Testing Service Corporation	--------	629	B	30	2½	----------	---	---	------	--	-----	---	T	-------	See log well 15B8.
15B2	-------do---------	---------do---------	--------	629	B	30	2½	----------	---	---	------	--	-----	---	T	-------	Do.
15B3	-------do---------	---------do---------	--------	646	B	52	2½	----------	---	---	------	--	-----	---	T	-------	No water reported; L.
15B4	-------do---------	---------do---------	--------	645	B	54	2½	----------	---	---	Sd,G	Pl	C	---	T	-------	Flowed; L, S.
15B5	-------do---------	---------do---------	--------	643	B	53	2½	----------	---	---	------	--	-----	---	T	-------	L.
15B6	-------do---------	---------do---------	--------	637	B	52	2½	----------	16	8	Sd,G	Pl	C	13	T	-------	See log well 15B3.
15B7	-------do---------	---------do---------	--------	627	B	32	2½	----------	8	11	Sd	Pl	C	0	T	-------	See log well 15B8.
15B8	-------do---------	---------do---------	--------	627	B	32	2½	----------	0	18	Sd,G	Pl	U	0	T	-------	L.
15C1	-------do---------	---------do---------	--------	620	B	30	2½	----------	28	2	Sd,G	Pl	C	---	T	-------	Flowed; see log well 15B8.
15C2	-------do---------	---------do---------	--------	620	B	30	2½	----------	---	---	------	--	-----	---	T	-------	Do.
15E1	-------do---------	---------do---------	--------	632	B	32	2½	----------	---	---	------	--	-----	---	T	-------	See log well 15E2.
15E2	-------do---------	---------do---------	--------	632	B	50	2½	----------	30	14	Sd,G	Pl	C	+17	T	-------	L, S.
15E3	-------do---------	---------do---------	--------	633	B	32	2½	----------	---	---	------	--	-----	---	T	-------	See log well 15E2.
15E4	-------do---------	---------do---------	--------	634	B	32	2½	----------	---	---	------	--	-----	---	T	-------	Do.
16M1	-------do---------	Brighton Engineering Co.	11-14-50	659	B	30	2½	----------	---	---	------	--	-----	---	T	-------	L.
10R1	Coolspring Township School	Indiana-Michigan Water Development Co.	2- 3-38	656	Dr	62	8	S; 10ft, 30sl, dia 5½	52	10	G	Pl	C	+2	O	-------	Dd 3.5 ft pumping 180 gpm; observation well La Porte 6; water level measured 4.00 ft above lsd, 5-20-56; L.
17J1	Indiana State Highway Department	Brighton Engineering Co.	11-13-58	658	B	30	2½	----------	---	---	------	--	-----	---	T	-------	See log well 17J2.
17J2	-------do---------	---------do---------	12-58	661	B	50	2½	----------	---	---	------	--	-----	---	T	-------	L, S.
17L1	-------do---------	---------do---------	11-20-58	660	B	30	2½	----------	---	---	------	--	-----	---	T	-------	See log well 17L2.
17L2	-------do---------	---------do---------	11-21-58	600	B	50	2½	----------	---	---	------	--	-----	---	T	-------	L, S.
17M1	-------do---------	---------do---------	11-19-58	660	B	30	2½	----------	---	---	------	--	-----	---	T	-------	See log well 17L2.
17M2	-------do---------	---------do---------	11-19-58	660	B	50	2½	----------	24	17	Sd	Pl	U	24	T	-------	L.
18E1	-------do---------	---------do---------	11-11-58	650	B	30	2½	----------	12	18	Sd	Pl	U	12	T	-------	L.
18M1	-------do---------	---------do---------	11- 7-58	659	B	55	2½	----------	---	---	Sd	Pl	-----	12	T	-------	L.
18Q1	J. Foldenauer	Lakeland Well Drillers	8-14-56	670	J	56	2	S; 4ft, 80g, dia 1	50	6	Sd	Pl	C	---	---	1/2	Flowed; L.
18R1	J. Fisch	---------do---------	2- 4-57	667	J	92	2	S; 4ft, 80g, dia 1	88	4	Sd	Pl	C	---	D,S	J1/2	Ca, L.
19C1	D. Roman	---------do---------	10-22-56	661	J	67	2	S; 4½ft, 60g, dia 1½	---	---	Sd	Pl	-----	---	---	J	
21N1	K. Nowatzke	----------	8-25-55	666	J	35	2	S; 60g, dia 1	---	---	Sd	Pl	-----	8	D,S		
22P1	R. Nickolson	J. Dill	1-55	---	J	55	2	S; 3ft, 60g	50	5	Sd,G	Pl	C	40	D	-------	Sand and gravel overlain by 40 ft fine sand and clay and 10 ft sand.
24A1	C. Trafelet	---------do---------	8-56	800	J	199	3	S; 4ft, 60g	190	9	Sd	Pl	C	84	---	-------	L.
24D1	A. Krueger	---------do---------	5-29-54	700	J	35	2	S; 2½ft, 80g	30	5	Sd	Pl	C	15	D	J1/3	Yield 8 gpm; fine sand overlain by 30 ft clay mixed with fine sand.
26A1	J. Dill	---------do---------	1-47	830	J	126	2	S; 3ft, 80g	120	6	Sd	Pl	C	85	D	J1	Ca, L.
26C1	M. Fenton	---------do---------	8-55	760	J	124	3	S; 5ft, 80g	115	9	Sd	Pl	C	20	D	-------	Yield 30 gpm; L.
26H1	M. Hakes	---------do---------	6-21-54	820	J	108	2	S; 80g	105	3	Sd	Pl	C	85	D	L	L.
26M1	A. LeRoy	---------do---------	3-15-55	810	J	85	2	S; 3ft, 60g, dia 1	---	---	Sd	Pl	-----	35	D,S	1/2	
26R1	J. Stalbaum	----------	--------	875	J	130	2	S; 3ft, 80g, dia 1	---	---	Sd	Pl	-----	95	D,S	L1/3	Ca.
27B1	F. Dynowski	----------	--------	735	J	58	2	S; 3ft, 60g, dia 1	---	---	Sd	Pl	-----	38	D,S	J1/2	Yield 4 gpm.
27C1	J. M. Jozwiak	J. Dill	8-56	740	J	60	2	S; 3ft, 60g	55	5	Sd	Pl	C	42	D	-------	Sand overlain by 55 ft red clay and gravel; temp 55; Ca.
27D1	J. Sawicki	---------do---------	5-56	770	J	96	2	-------do---------	90	6	Sd	Pl	C	65	D	-------	Coarse sand overlain by 90 ft red clay and gravel; temp 55.
32J1	Pleasant Valley Park	---------do---------	5-55	695	J	46	2	S; 3ft, 80g	40	6	Sd	Pl	C	10	D	P	Yield 12 gpm; fine sand overlain by 40 ft blue clay; Ca.
35J1	Indiana Toll Road Commission	Westville Engineering Co.	--------	843	D	45	---	----------	---	---	------	--	-----	---	T	-------	No water reported; 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: Depth to top (feet)	Water-bearing zone: Thickness (feet)	Water-bearing zone: Character	Water-bearing zone: Geologic age	Water-bearing zone: Conditions of occurrence	Water level (feet)	Use	Type of pump and horsepower	Remarks
37/4W-35J2	Indiana Toll Road Commission	Westville Engineering Co.	--------	850	D	40	---	----------	---	---	-----	--	-----	---	T	------	No water reported; see log well 35J1.
35N1	------do-------	---------do---------	5-26-54	834	D	32	---	----------	23	9	Sd	Pl	U	23	T	------	See log well 35P4.
35P1	------do-------	---------do---------	5-25-54	852	B	62	2½	----------	---	---	-----	--	-----	---	T	------	No water reported; L.
35P2	------do-------	---------do---------	5-25-54	852	B	62	2½	----------	---	---	-----	--	-----	---	T	------	Do.
35P3	------do-------	---------do---------	5-20-54	853	D	62	2½	----------	---	---	-----	--	-----	---	T	------	Do.
35P4	------do-------	---------do---------	5-26-54	855	B	62	2½	----------	38	9	Sd	Pl	U	36	T	------	L.
35Q1	A. Wozniak	--------	--------	840	J	75	2	S; 60g, dia 1	---	---	Sd	Pl	-----	21	---	J3/4	Ca.
38A1	Indiana Toll Road Commission	Westville Engineering Co.	5-12-54	868	D	30	2½	----------	---	---	-----	--	-----	---	T	------	No water reported; L.
36F1	------do-------	---------do---------	5- 5-54	840	B	30	---	----------	---	---	-----	--	-----	---	T	------	Do.
36G1	------do-------	---------do---------	5- 5-54	881	D	51	---	----------	7	44	Sd	Pl	U	7	T	------	See log well 36G5.
36G2	------do-------	---------do---------	5- 5-54	884	D	52	---	----------	15	37	Sd	Pl	C	12	T	------	See log well 36G4.
36G3	------do-------	---------do---------	5- 5-54	883	B	36	---	----------	---	---	-----	--	-----	---	T	------	No water reported; see log well 36G5.
36G4	------do-------	---------do---------	5- 5-54	887	D	55	---	----------	---	---	-----	--	-----	---	T	------	No water reported; L.
36G5	------do-------	---------do---------	5- 6-54	888	D	56	---	----------	---	---	-----	--	-----	---	T	------	Do.
36G6	------do-------	---------do---------	5-12-54	875	B	30	---	----------	---	---	-----	--	-----	---	T	------	No water reported; see log well 36G5.
36M1	------do-------	---------do---------	5- 6-54	844	B	40	---	----------	---	---	-----	--	-----	---	T	------	No water reported; L.
36M2	------do-------	---------do---------	5- 6-54	848	D	40	---	----------	---	---	-----	--	-----	---	T	------	No water reported; see log well 36M1.
38/1W- 7Q1	R. Ackerman	Hunts Hoosier Hardware	12-55	765	J	90	3	S	89	4	Sd	Pl	C	55	D,S	J1	Yield 17 gpm; Ca, L.
16J1	Indiana Toll Road Commission	Raymond Concrete Pile Co.	4-14-54	811	D	45	---	----------	24	20	Sd,G	Pl	C	9	T	------	L.
16P1	------do-------	KOF Foundation Test Borings, Inc.	6-11-54	821	D	45	---	----------	---	---	-----	--	-----	---	T	------	No water reported; see log well 16P2.
16P2	------do-------	---------do---------	6- 9-54	820	D	55	---	----------	---	---	Sd,G	Pl	C	14	T	------	L.
16Q1	------do-------	---------do---------	6-12-54	823	D	30	---	----------	---	---	-----	--	-----	---	T	------	No water reported; see log well 16Q5.
16Q2	------do-------	---------do---------	6-12-54	820	D	40	---	----------	---	---	-----	--	-----	---	T	------	No water reported; L.
16Q3	------do-------	---------do---------	6-10-54	818	D	48	---	----------	28	20	Sd,G	Pl	C	14	T	------	See log well 16Q5.
16Q4	------do-------	---------do---------	6-12-54	819	D	40	---	----------	24	16	Sd,G	Pl	C	14	T	------	L.
16Q5	------do-------	---------do---------	6- 9-54	820	B	50	---	----------	25	25	Sd,G	Pl	C	9	T	------	L.
17P1	M. S. Olson	Hunts Hoosier Hardware	5-28-57	785	J	58	2	S; 4ft, 60g, dia 1	44	14	Sd,G	Pl	C	24	D	------	Yield 13 gpm; Ca, L.
18D1	F. Miller	---------do---------	3-11-58	760	J	59	2	S; 4½ft, 60g, dia 1	53	6	Sd	Pl	C	47	D	------	Do.
18D2	------do-------	F. Miller	--------	760	Dr	24	1¼	S	---	---	Sd	Pl	-----	---	S	L	Ca.
19E1	G. Grott	Hunts Hoosier Hardware	3-22-55	845	J	94	2	S; 3½ft, 60g, dia 1	78	16	G,Sd	Pl	U	78	D,S	------	Yield 13 gpm; Ca, L.
19M1	J. Drozovich	---------do---------	11- 2-55	825	J	72	2	S; 4ft, 60g, dia 1	58	16	Sd,G	Pl	U	58	D	L	Yield 13 gpm; sand and gravel overlain by 18 ft clay and sand.
19N1	Indiana Toll Road Commission	KOF Foundation Test Borings, Inc.	5- 6-54	810	B	44	---	----------	---	---	-----	--	-----	---	T	------	L.
19N2	------do-------	---------do---------	5- 5-54	811	D	35	---	----------	---	---	-----	--	-----	---	T	------	No water reported; see log well 19N1.
19N3	------do-------	---------do---------	5- 6-54	810	D	45	---	----------	---	---	-----	--	-----	---	T	------	No water reported; see log well 19N4.
19N4	------do-------	---------do---------	5- 4-54	810	B	46	---	----------	---	---	-----	--	-----	---	T	------	No water reported; L.
20M1	------do-------	---------do---------	5-10-54	822	D	40	---	----------	---	---	-----	--	-----	---	T	------	Do.
20M2	------do-------	---------do---------	5- 9-54	822	B	40	---	----------	---	---	-----	--	-----	---	T	------	No water reported; see log well 20M5.
20M3	------do-------	---------do---------	5-10-54	821	B	45	---	----------	---	---	-----	--	-----	---	T	------	Do.
20M4	------do-------	---------do---------	5- 9-54	819	B	35	---	----------	---	---	-----	--	-----	---	T	------	No water reported; see log well 20M1.
20M5	------do-------	---------do---------	5-10-54	818	B	45	---	----------	---	---	-----	--	-----	---	T	------	No water reported; L.
20Q1	C. Hunter	Hunts Hoosier Hardware	8-19-54	805	J	57	2	S; 60g	43	15	G,Sd	Pl	U	43	D	J1/2	Yield 15 gpm; sand and gravel overlain by 21 ft brown clay.
21B1	S. L. Adams	Srivor Drilling Co.	8-24-53	800	J	69	2	S; 3ft, 80g, dia 1¼	52	17	G,Sd	Pl	U	52	D	------	Ca, L.
21D1	Indiana Toll Road Commission	KOF Foundation Test Borings, Inc.	6-12-54	806	D	45	---	----------	---	---	-----	--	-----	---	T	------	No water reported; L.

38/1W-21N1	J. Vitek	Hunts Hoosier Hardware	5-54	705	J	67	2	S; 60g	40	27	Sd,G	Pl	C	30	D	J1/2	L.
28B1	E. Johnson	---------do---------	3- 4-55	795	J	45	2	S; 3½ft, 60g, dia 1	28	17	G,Sd	Pl	U	28	P	------	Yield 13 gpm; brown gravel and sand overlain by 18 ft brown clay and gravel; Ca.
28C1	J. V. Fonta	---------do---------	6-10-58	780	J	40	2	S; 4ft, 60g, dia 1	32	8	Sd,G	Pl	C	18	D	------	Ca, L.
28C2	J. R. Pazul	---------do---------	7- 7-59	780	J	28	2	-------do--------	18	10	Sd,G	Pl	U	18	D	------	Sand and gravel overlain by 3 ft clay.
28D1	J. Hunter	H. Hope	11-16-51	790	J	63	2	S; 4ft, 60g	---	---	Sd,G	Pl	----	---	D	P	
28D2	B. Issen	---------do---------	11-28-51	780	J	91	2	S; 6ft, 60g	83	8	Sd,G	Pl	----	---	D	------	Yield 7 gpm.
28D3	S. Cohen	---------do---------	11-30-51	780	J	91	---	-------do--------	83	8	Sd	Pl	----	---	D	J1/2	Yield 7 gpm; coarse sand overlain by blue clay.
28D4	P. Sam	Hunts Hoosier Hardware	7-54	790	J	40	2	S; 60g	18	22	Sd,G	Pl	U	18	D	P	L.
28F1	R. Jones	---------do---------	7-53	780	J	86	2	S; 40g	75	11	Sd,G	Pl	C	15	D	------	Yield 15 gpm; coarse sand and pea-sized gravel overlain by 60 ft silty blue clay and 15 ft brown sand.
28K1	P. Marr	---------do---------	11-54	780	J	54	2	S; 60g	36	18	Sd	Pl	C	14	D,P	J1/2	Yield 15 gpm; white sand overlain by 36 ft clay and sand; Ca.
28L1	W. Mueller	---------do---------	8-14-58	775	J	50	2	S; 4ft, 60g, dia 1	38	21	Sd,G	Pl	C	12	D	------	Ca, L.
28Q1	T. Garoutte	---------do---------	Spring 1949	780	J	30	2	S; 60g	20	19	Sd,G	Pl	C	14	D	J1	Ca.
28Q2	W. Holman	---------do---------	--------	780	J	77	2	S; 4ft, 60g, dia 1	---	---	Sd,G	Pl	----	10	D	------	Yield 13 gpm; L.
29A1	R. Echart	---------do---------	7-55	803	J	88	2	S; 4½ft, 60g, dia 1	70	17	Sd,G	Pl	U	70	D	J3/4	Sand and gravel overlain by 84 ft sand.
29A2	F. Czarnecki	---------do---------	5- 8-57	775	J	22	2	S; 4ft, 60g, dia 1	17	5	Sd	Pl	C	7	D	------	Yield 13 gpm; white sand overlain by 17 ft clay.
29B1	H. Werth	---------do---------	5-10-57	795	J	48	2	S; 3½ft, 60g, dia 1	34	14	G	Pl	U	34	D	------	Yield 15 gpm; brown gravel overlain by 18 ft brown sand.
29D1	W. Robb	---------do---------	7-21-54	810	J	62	2	S; 4ft, 60g	50	12	Sd,G	Pl	C	45	D	J	Yield 15 gpm; sand and gravel overlain by 20 ft clay and 30 ft sand.
29P1	R. Kelly	---------do---------	8-25-58	860	J	118	2	S; 4ft, 60g, dia 1	---	---	Sd	Pl	----	93	D	------	Ca, L.
31A1	A. Thompson	---------do---------	Summer 1940	830	J	40	2	S; 60g	25	15	Sd,G	Pl	U	25	D	J1/2	Fine to coarse sand with gravel from 0-40 ft; Ca.
31R1	C. Kelly	---------do---------	12-24-56	855	J	102	2	S; 4ft, 60g, dia 1	76	26	Sd,G	Pl	U	76	D,S	L	Yield 13 gpm; L.
32Q1	R. Marloy	---------do---------	11-23-56	840	J	88	2	-------do--------	71	17	Sd,G	Pl	U	71	I	J3/4	Do.
32Q2	P. Parry	---------do---------	11- 1-57	840	J	89	2	S; 4½ft, 60g, dia 1	---	---	Sd	Pl	----	70	D	------	Do.
33K1	L. Belsaas	---------do---------	12-23-55	820	J	88	2	-------do--------	69	17	Sd	Pl	U	69	D	L	Yield 13 gpm; Ca, L.
38/2W-12Q1	R. Tichelski	---------do---------	7-49	705	J	60	2	S; 60g	50	10	Sd	Pl	C	20	S	J1/2	Ca, L.
14Q1	G. Monkoe	---------do---------	4-56	---	J	29	2	S; 4½ft, 60g, dia 1	25	4	Sd	Pl	C	---	D	L	Flowed 7 gpm; discharge measured 2.5 gpm, 3-13-57; Ca, L.
14Q2	Dr. Carter	---------do---------	4-56	---	J	69	2	-------do--------	63	6	Sd	Pl	C	---	D	J1/4	Flowed 12 gpm; L.
14Q3	B. Phelm	---------do---------	8-28-58	---	J	70	2	S; 5ft, 60g, dia 1	70	9	Sd	Pl	C	6	P	------	Ca, L.
14Q4	C. Strese	---------do---------	11-11-58	---	J	32	2	S; 4ft, 60g, dia 1	27	5	Sd	Pl	C	14	D	------	See log well 14Q1; Ca.
15D1	J. Williams	---------do---------	4-49	700	J	46	2	S; 60g	---	---	Sd,G	Pl	----	18	---	J1/2	Yield 25 gpm.
17A1	D. Lewis	---------do---------	7-53	640	J	36	2	-------do--------	---	---	Sd,G	Pl	----	15	D	J1/2	Yield 20 gpm.
17Q1	L. Sharpe	---------do---------	7-54	675	J	56	2	-------do--------	50	6	Sd,G	Pl	C	18	D	J1/2	Yield 12 gpm; Ca, L
18P1	R. Stevenson	---------do---------	7-30-58	645	J	41	2	S; 5ft, 60g, dia 1	33	8	Sd,G	Pl	C	8	D	------	L.
18Q1	O. Slater	A. Good	--------	645	J	49	2	-------do--------	---	---	Sd	Pl	C	---	D	------	Flowed 2 gpm; Ca.
21R1	A. C. Crowl	Hunts Hoosier Hardware	7-27-54	685	J	165	2	S; 4½ft, 60g	160	5	Sd	Pl	C	80	D	J1	Yield 15 gpm; L.
22A1	G. Morton	T. Johnson and E. Wicklund	4-30-46	704	Dr	792	6-5½	-------do--------	---	---	Sd	Pl	----	---	---	------	Oil test; bedrock at 175 ft; L.
22D1	A. S. Homer	Hunts Hoosier Hardware	10-53	680	J	119	2	-------do--------	110	0	G	Pl	C	---	D	------	Flowed 15 gpm; fine to coarse gravel overlain by 110 ft blue clay and fine sand; Ca.
22E1	A. Schuck	---------do---------	8- 4-56	755	J	94	2	S; 4ft, 60g, dia 1	90	4	Sd	Pl	C	30	D	L	Yield 13 gpm; Ca, L.
22Q1	Mr. Kuehn	---------do---------	10-52	790	J	150	2	S; 10sl	150	0	Sd,G	Pl	C	80	D	L	White coarse sand and gravel overlain by 75 ft blue clay and silt and 75 ft gravel and brown sand; Ca.
24A1	Mr. Mateycak	---------do---------	6-15-57	770	J	63	2	S; 4ft, 60g, dia 1	---	---	Sd,G	Pl	----	48	D	------	Yield 13 gpm; L.
24H1	J. Laskoski	---------do---------	10-50	845	J	90	2	S; 60g	75	15	Sd,G	Pl	U	75	D	L1	Sand and gravel overlain by 50 ft brown coarse sand and 10 ft brown clay.
24P1	P. Jozwick	H. Hope	7-52	815	J	88	2	-------do--------	---	---	Sd,G	Pl	----	---	D	------	
24R1	Indiana Toll Road Commission	KOF Foundation Test Borings, Inc.	5- 7-54	810	B	51	---	----------	---	---	-----	--	----	---	T	------	No water reported; L.
24R2	-------do--------	---------do---------	5- 8-54	809	B	40	---	----------	---	---	-----	--	----	---	T	------	Do.
24R3	-------do--------	---------do---------	5-19-54	784	B	35	---	----------	---	---	-----	--	----	---	T	------	L.
25B1	H. Duff	Hunts Hoosier Hardware	9-12-54	---	J	49	2	S; 4ft, 60g	35	14	Sd,G	Pl	U	35	---	J	Yield 15 gpm; sand and gravel overlain by 18 ft clay; Ca.
25C1	M. Kolsh	---------do---------	8-24-57	---	J	65	2	S; 4ft, 60g, dia 1	51	14	Sd	Pl	U	51	D	------	Yield 13 gpm; L.
25D1	Indiana Toll Road Commission	KOF Foundation Test Borings, Inc.	5- 1-54	815	B	40	---	----------	---	---	-----	--	----	---	T	------	No water reported; 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					Water level (feet)	Use	Type of pump and horsepower	Remarks
									Depth to top (feet)	Thickness (feet)	Character	Geologic age	Conditions of occurrence				
38/2W-25D2	Indiana Toll Road Commission	KOF Foundation Test Borings, Inc.	5- 3-54	815	B	34	---	----------	---	---	-----	--	----	---	T	------	No water reported; see log well 25D1.
25D3	J. H. Maior	Hunts Hoosier Hardware	8-14-58	---	J	77	2	S; 5ft, 60g, dia 1	---	---	Sd	Pl	----	58	D	------	L.
25D4	F. Kober	----------do----------	4-23-58	---	J	60	2	S; 4ft, dia 1	40	20	Sd,G	Pl	U	40	D	------	See log well 25C1.
25G1	Mr. Ebel	----------do----------	5-28-57	---	J	58	2	S; 4ft, 60g, dia 1	50	8	Sd	Pl	C	31	D	------	Yield 13 gpm; see log well 25C1; Ca.
25H1	P. D. Swinandorf	----------do----------	---------	---	J	54	2	S; 60g	40	14	Sd,G	Pl	U	40	D	J1/2	Yield 13 gpm; see log well 25C1.
25N2	Mr. LaRocha	----------do----------	8-11-54	---	J	54	2	S; 4½ft, 60g	40	14	Sd,G	Pl	U	40	D	J1/2	Yield 15 gpm; see log well 25N4; Ca.
25N3	K. Delwator	----------do----------	Summer 1955	---	J	54	2	S; 3½ft, 60g, dia 1	35	23	Sd,G	Pl	U	35	D	J1/2	Yield 15 gpm; see log well 25C1.
25N4	Mr. Schlunt	----------do----------	6- 5-56	---	J	52	2	----------do----------	30	22	Sd,G	Pl	U	30	D	L	Yield 13 gpm; L.
25N5	M. Johnson	----------do----------	5-14-57	---	J	85	2	S; 4ft, 60g, dia 1	---	---	Sd	Pl	----	63	D	------	Yield 13 gpm; Ca, L.
25N6	A. Bart	----------do----------	5-16-57	---	J	76	2	--------do----------	60	16	G,Sd	Pl	C	45	D	------	Yield 13 gpm; L.
26A1	Indiana Toll Road Commission	KOF Foundation Test Borings, Inc.	---------	790	B	24	---	----------	---	---	-----	--	----	---	T	------	No water reported; see log well 26A4.
26A2	--------do---------	----------do----------	5- 5-54	815	B	30	---	----------	---	---	-----	--	----	---	T	------	Do.
26A3	--------do---------	----------do----------	5- 4-54	814	B	35	---	----------	---	---	-----	--	----	---	T	------	Do.
26A4	--------do---------	----------do----------	5- 4-54	814	B	40	---	----------	---	---	-----	--	----	---	T	------	No water reported; L.
26A5	--------do---------	----------do----------	5- 4-54	815	B	35	---	----------	---	---	-----	--	----	---	T	------	No water reported; see log well 26A4.
26G1	--------do---------	----------do----------	6-12-54	816	B	20	---	----------	---	---	-----	--	----	---	T	------	No water reported; L.
26G2	--------do---------	----------do----------	5-15-54	820	B	45	---	----------	---	---	-----	--	----	---	T	------	Do.
26G3	--------do---------	----------do----------	5-22-54	826	D	38	---	----------	---	---	-----	--	----	---	T	------	No water reported; see log well 26G2.
26G4	--------do---------	----------do----------	5-21-54	825	D	40	---	----------	---	---	-----	--	----	---	T	------	Do.
26G5	--------do---------	----------do----------	5-18-54	831	D	40	---	----------	---	---	-----	--	----	---	T	------	Do.
26H1	--------do---------	----------do----------	6-14-54	811	B	20	---	----------	16	4	Sd	Pl	C	3	T	------	L.
26K1	--------do---------	----------do----------	5-21-54	824	B	35	---	----------	---	---	-----	--	----	---	T	------	No water reported; see log well 26K2.
26K2	--------do---------	----------do----------	5-18-54	831	D	40	---	----------	---	---	-----	--	----	---	T	------	No water reported; L.
26K3	--------do---------	----------do----------	5-19-54	830	D	35	---	----------	---	---	-----	--	----	---	T	------	No water reported; see log well 26K2.
26K4	--------do---------	----------do----------	5-22-54	825	D	35	---	----------	---	---	-----	--	----	---	T	------	Do.
26N1	--------do---------	----------do----------	4-30-54	830	B	45	---	----------	---	---	-----	--	----	---	T	------	No water reported; L.
26N2	--------do---------	----------do----------	5- 1-54	830	D	30	---	----------	---	---	-----	--	----	---	T	------	No water reported; see log well 26N1.
26N3	--------do---------	----------do----------	4-29-54	829	D	35	---	----------	---	---	-----	--	----	---	T	------	Do.
26N4	--------do---------	----------do----------	5- 1-54	829	D	34	---	----------	---	---	-----	--	----	---	T	------	No water reported; see log well 26N1.
26P1	--------do---------	----------do----------	4-30-54	828	B	35	---	----------	---	---	-----	--	----	---	T	------	No water reported; L.
26P2	--------do---------	----------do----------	4-29-54	828	D	27	---	----------	---	---	-----	--	----	---	T	------	No water reported; see log well 26P1.
28C1	K. Reynolds	Hunts Hoosier Hardware	---------	720	J	32	2	S; 3½ft, 60g, dia 1	28	4	Sd	Pl	----	---	D	J1/2	L.
30G1	Mr. Vogets	----------do----------	Fall 1954	730	J	74	2	--------do---------	68	6	G	Pl	C	45	---	L	L.
30K1	C. Schleyer	----------do----------	1938	715	Dn	30	1½	S; 60g	---	---	Sd	Pl	C	---	---	------	Flowed 3 gpm.
30K2	G. Graf	----------do----------	8-31-54	700	J	26	2	S; 3ft, 60g	23	3	Sd	Pl	C	---	D	P	Flowed; yield 15 gpm; sand overlain by 23 ft clay.
30L1	T. Keough	----------do----------	9- 6-58	700	J	86	3	S; 5½ft, 80g, dia 1½	57	9	Sd	Pl	----	---	D	------	L.
31R1	M. Baker	----------do----------	5-27-57	890	J	130	2	S; 4ft, 60g, dia 1	110	20	Sd	Pl	U	110	D	------	Yield 13 gpm; brown sand from 0-130 ft; Ca.
32C1	J. Shiffli	----------do----------	5- 4-55	785	J	48	2	S; 3½ft, 60g, dia 1	36	12	Sd	Pl	C	25	D	L	Brown sand overlain by 36 ft sand, gravel, and clay.
32C2	L. Lotter	----------do----------	Summer 1949	805	J	57	2	S; 60g	---	---	Sd	Pl	----	40	D	------	Brown sand overlain by about 40 ft mixed sand and clay.
32E1	J. C. Koster	----------do----------	4- 2-58	855	J	128	2	S; 4ft, 60g, dia 1	---	---	Sd	Pl	----	93	D	------	Yield 13 gpm; Ca, L.
32M1	M. Dittmar	----------do----------	8-26-59	860	J	115	2	S; 5ft, 60g, dia 1	102	13	Sd,G	Pl	U	102	D	------	L.

38/2W-33D1	J. Bogenski	Hunts Hoosier Hardware	7-54	875	J	117	2	S; 60g	110	7	Sd,G	Pl	C	90	D	J1	L.
33H1	Woods and Beach	---------do---------	7-46	850	J	119	2	-------do---------	115	4	Sd	Pl	C	---	S	------	Brown coarse sand overlain by about 115 ft brown soft clay; Ca.
34A1	Indiana Toll Road Commission	Layne-Northern Co., Inc.	1955	840	Dr	130	10	S; 15ft	77	53	Sd,G	Pl	U	77	P	------	Dd 14 ft pumping 150 gpm; L.
34A2	-------do--------	---------do---------	10-10-55	840	Dr	116	10	S	73	43	Sd,G	Pl	U	73	P	------	L.
34A3	-------do--------	KOF Foundation Test Borings, Inc.	5-24-54	845	B	35	---	----------	---	---	-----	--	-----	---	T	------	No water reported; L.
34D1	Zionist Labor Party	Hunts Hoosier Hardware	Summer 1949	820	J	96	4	S; 60g	80	16	Sd,G	Pl	U	80	P	J2	Sand and gravel overlain by 40 ft clay mixed with sand.
34G1	Indiana Toll Road Commission	----------	3-11-54	800	D	15	---	----------	---	---	Sd	Pl	-----	2	T	------	See log well 34H1.
34H1	-------do--------	----------	1954	839	B	40	---	----------	---	---	-----	--	-----	---	T	------	No water reported; L.
34H2	-------do--------	----------	1954	841	B	28	---	----------	---	---	-----	--	-----	---	T	------	Do.
35P1	S. Mrozinski	Hunts Hoosier Hardware	1941	845	J	95	2	S; 60g	---	---	Sd	Pl	-----	---	D,S	------	
35P2	-------do--------	---------do---------	5-14-56	845	J	95	2	S; 4½ft, 60g, dia 1	78	17	Sd	Pl	U	78	D,S	J1	Yield 13 gpm; L.
38/3W- 9Q1	Indiana State Highway Department	Testing Service Corp.	1958	676	B	42	2½	----------	37	5	Sd	Pl	C	15	T	------	See log well 9Q2.
9Q2	-------do--------	---------do---------	1958	678	D	52	2½	----------	32	8	Sd	Pl	C	14	T	------	L.
9Q3	-------do--------	---------do---------	1958	676	B	52	2½	----------	40	12	Sd	Pl	C	14	T	------	See log well 9Q2.
9Q4	-------do--------	---------do---------	1958	676	B	82	2½	----------	---	---	Sd	Pl	C	18	T	------	L, S.
9Q5	-------do--------	---------do---------	1958	670	B	46	2½	----------	24	18	Sd	Pl	C	14	T	------	L.
10E1	-------do--------	---------do---------	---------	673	D	62	2½	----------	---	---	Sd,G	Pl	-----	---	T	------	L, S.
10E2	-------do--------	---------do---------	---------	673	D	52	2½	----------	---	---	Sd,G	Pl	-----	---	T	------	See log well 10E1.
10E3	-------do--------	---------do---------	---------	673	D	63	2½	----------	---	---	Sd	Pl	-----	---	T	------	L.
10E4	-------do--------	---------do---------	---------	673	D	46	2½	----------	---	---	-----	--	-----	---	T	------	See log well 10E3.
11K1	J. Farina	Hunts Hoosier Hardware	9-58	675	J	46	2	S; 4½ft, 60g, dia 1	---	---	Sd	Pl	-----	10	D	J	Yield 13 gpm; white sand overlain by 30 ft clay and sand; Ca.
13B1	Mr. Wank	---------do---------	7-53	677	J	80	2	S; 3ft, 60g, dia 1¼	70	80	Sd	Pl	C	27	D	J1/2	Yield 13 gpm; white sand overlain by 70 ft blue clay and silt; Ca.
13H1	B. Shippel	A. Good	---------	695	J	70	2	----------	53	17	Sd,G	Pl	C	50	---	------	Coarse sand and gravel overlain by 53 ft clay and sand.
14A1	R. Grandorf	Hunts Hoosier Hardware	9-56	680	J	76	2	S; 4ft, 60g, dia 1	71	5	Sd	Pl	C	27	D	L	Yield 13 gpm; L.
15J1	W. Schultz	---------do---------	6-28-58	690	J	40	2	-------do--------	34	8	Sd	Pl	C	15	D	------	Ca, L.
16N1	H. Schultz	---------do---------	8-18-59	675	J	26	2	S; 8ft, 80g, dia 1	15	11	Sd	Pl	U	15	D,S	------	Brown fine sand from 0-26 ft.
17A1	R. Martin	Lakeland Well Drillers	12-22-57	650	J	67	2	S; 4ft, 60g, dia 1	60	7	Sd	Pl	C	---	D	J	Sand overlain by 60 ft clay; Ca.
17D1	T. Mazac	---------do---------	10-30-58	620	J	40	2	S; 3½ft, 80g, dia 1	---	---	Sd	Pl	-----	---	D	1/3	
17Q1	Indiana State Highway Department	Testing Service Corp.	---------	652	D	42	2½	----------	---	---	-----	--	-----	---	T	------	See log well 17Q3.
17Q2	-------do--------	---------do---------	---------	652	D	46	2½	----------	---	---	-----	--	-----	---	T	------	Do.
17Q3	-------do--------	---------do---------	---------	652	B	56	2½	----------	---	---	-----	--	-----	---	T	------	L.
17Q4	-------do--------	---------do---------	---------	653	B	32	2½	----------	---	---	-----	--	-----	---	T	------	See log well 17Q3.
17Q5	-------do--------	---------do---------	---------	654	B	36	2½	----------	---	---	-----	--	-----	---	T	------	Do.
18D1	Shady Oak Trailer Court	Lakeland Well Drillers	6- 6-56	620	J	18	2	S	13	5	Sd	Pl	U	13	P	J3/4	Ca.
19A1	M. Crama	Mr. Barnthouse	7-54	635	J	131	2	----------	---	---	-----	--	-----	---	T	------	No water reported; L.
22L1	H. Heath	Hunts Hoosier Hardware	9-18-57	685	J	95	2	S; 9ft, 60g, dia 1	84	11	Sd	Pl	C	35	D	------	Yield 12 gpm; white fine sand overlain by 84 ft blue clay and quicksand; Ca.
23A1	R. Kessler	---------do---------	Spring 1947	695	J	85	2	S; 60g	78	7	Sd	Pl	C	35	S	J1/2	White medium sand overlain by silt and clay; Ca.
23P1	S. Dull	---------do---------	Winter 1951	670	J	40	2	-------do--------	30	10	Sd,G	Pl	C	21	S	J1/2	White sand and gravel overlain by 30 ft hard blue clay and sand; Ca.
24L1	Mr. Ott	A. Good	---------	660	Dr	35	1½	S	---	---	Sd	Pl	-----	12	---	------	
26F1	Indiana State Highway Department	Westville Engineering Co.	2-18-59	683	B	30	2½	----------	2	28	Sd,G	Pl	U	2	T	------	See log well 26F2.
26F2	-------do--------	---------do---------	2-18-59	663	B	50	2½	----------	4	46	Sd	Pl	U	4	T	------	L, S.
26F3	-------do--------	---------do---------	2-18-59	664	B	30	2½	----------	6	24	Sd,G	Pl	C	2	T	------	L.
26F4	-------do--------	---------do---------	2-19-59	664	B	30	2½	----------	3	27	Sd,G	Pl	U	3	T	------	See log well 26F2.
31G1	G. Burns	Hunts Hoosier Hardware	5- 6-57	675	J	72	2	S; 4ft, 60g, dia 1	66	6	Sd,G	Pl	C	30	D	------	Yield 13 gpm; sand and gravel overlain by 66 ft clay; Ca.
31L1	Indiana State Highway Department	Testing Service Corp.	---------	624	B	36	2½	----------	---	---	Sd	Pl	C	3	T	------	L.
31L2	-------do--------	---------do---------	---------	622	D	30	2½	----------	24	12	Sd	Pl	C	3	T	------	L.
31L3	-------do--------	---------do---------	---------	624	D	32	2½	----------	---	---	Sd	Pl	C	---	T	------	See log well 31L1.
31L4	-------do--------	---------do---------	---------	622	D	32	2½	----------	---	---	Sd	Pl	-----	2	T	------	L, S.
31N1	-------do--------	---------do---------	9- 3-58	621	B	40	2½	----------	---	---	-----	--	-----	---	T	------	L.
31N2	-------do--------	---------do---------	9- 4-58	620	D	46	2½	----------	39	7	G,Sd	Pl	C	---	T	------	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: Depth to top (feet)	Water-bearing zone: Thickness (feet)	Water-bearing zone: Character	Water-bearing zone: Geologic age	Water-bearing zone: Conditions of occurrence	Water level (feet)	Use	Type of pump and horsepower	Remarks
38/3W-33D1	C. Jones	Hunts Hoosier Hardware	7- 6-53	660	J	50	2	S; 60g	40	10	G	Pl	C	12	D	J1/2	Blue coarse gravel overlain by 40 ft blue clay mixed with sand and gravel.
33D2	R. Jones	---------do---------	Fall 1954	660	J	53	2	S; 4ft, 60g	---	---	G,Sd	Pl	-----	17	D	3/4	Yield 13 gpm; Ca, L.
33N1	R. Kowalski	---------do---------	8- 3-58	660	J	67	2	S; 3½ft, 60g, dia 1	51	16	G,Sd	Pl	U	51	D	------	Yield 13 gpm; L.
35B1	J. Benson	N. Hope	10-11-51	680	J	35	2	S; 80g	---	---	G	Pl	U	---	D	------	Gravel overlain by 8 ft sand; Ca.
35N1	O. and H. Pollock	Hunts Hoosier Hardware	12-20-56	685	J	40	2	S; 4ft, 60g, dia 1	34	6	Sd,G	Pl	C	---	D	J	Flowed 2.5 gpm; pumped 10 gpm; Ca, L.
36M1	D. Helm	---------do---------	5-13-58	700	J	100	2	-------do---------	80	20	Sd	Pl	C	13	N	N	L.
38/4W-12L1	Duneland Beach Assoc.	Indiana-Michigan Water Development Co.	12-15-39	585	Dr	37	12-6	----------	---	---	Sd	Pl	U	---	P	------	Sand from 0-37 ft.
12R1	M. J. Murray	Lakeland Well Drillers	5-20-56	630	J	39	2	S; 5½ft, 100g, dia 1	---	---	Sd	Pl	U	---	N	N	Sand from 0-39 ft.
13L1	L. Burns	--------	--------	610	J	23	2	S; 80g, dia 1	---	---	Sd	Pl	-----	---	---	------	
13N1	D. H. Mony	Lakeland Well Drillers	1- 2-56	---	J	154	3	S; 6½ft, 80g, dia 2	---	---	Sd	Pl	-----	75	D	L	Yield 17 gpm;
13P1	Maach Deluxe Drive-In	---------do---------	6- 2-56	620	J	22	2	S; 4ft, 80g, dia 1	---	---	Sd	Pl	-----	---	---	------	
13Q1	R. V. Hannick	---------do---------	Fall 1955	625	Dr	200	4	Oh	150	50	Sh	D	C	+7	P	------	Dd 15 ft pumping 20 gpm; well contained gas; Ca, L.
13Q2	-------do--------	---------do---------	Fall 1955	625	J	150	4	Oo	---	---	------	--	-----	---	---	------	Gas well; bedrock at 150 ft; see log well 13Q1.
13Q3	-------do--------	---------do---------	5-20-57	625	J	26	2	S; 4ft, 100g, dia 1	---	---	Sd	Pl	U	---	T	1-1/2	White sand overlain by 19 ft yellow sand; Ca.
14E1	Northern Indiana Public Service Co.	Layne-Northern Co., Inc.	7-12-33	600	Dr	140	---	----------	---	---	------	--	-----	---	T	------	Bedrock at 140 ft; clay overlain by 8 ft sand.
15R1	E. E. Moltzan	Lakeland Well Drillers	5-20-57	635	J	42	2	S; 3ft, 60g, dia 1	37	5	Sd	Pl	U	37	D	------	Sand from 0-42 ft.
22F1	Michiana Products Corp.	Moore Bros.	--------	---	Dr	30	---	----------	10	20	Sd	Pl	U	10	T	------	Sand from 0-30 ft.
22F2	-------do--------	---------do---------	--------	---	Dr	37	---	----------	4	33	Sd	Pl	U	4	T	------	Sand from 0-37 ft.
22F3	N. Winski	Lakeland Well Drillers	5-24-56	---	J	144	2	S; 3½ft, 60g, dia 1	138	12	Sd	Pl	C	---	N	------	Sand overlain by 108 ft clay and 30 ft sand; water reported high in chloride and sulfate content.
22L1	Michiana Products Corp.	Moore Bros.	--------	---	Dr	27	---	----------	6	21	Sd	Pl	U	6	T	------	Sand from 0-27 ft.
22L2	American Cyanamid Co.	J. P. Miller Artesian Well Co.	10- 2-52	615	Dr	295	12	Ou	---	---	Ls	D	C	+32	---	------	Flowed 1,000 gpm; for waste disposal; bedrock at 195 ft; L.
22M1	-------do--------	Layne-Northern Co., Inc.	6-12-51	615	Dr	645	---	----------	---	---	Ls	D,S	C	+22	---	------	Flowed 750 gpm; for waste disposal; L.
22M2	-------do--------	---------do---------	3-18-59	615	Dr	163	6	----------	8	19	Sd	Pl	U	8	T	------	L.
22M3	-------do--------	---------do---------	3-10-59	615	Dr	32	6	----------	7	15	Sd	Pl	U	7	T	------	Sand underlain by 10 ft clay.
22M4	-------do--------	---------do---------	2-26-59	615	Dr	142	6	----------	5	18	Sd	Pl	U	5	T	------	Sand underlain by 118 ft clay.
22M5	-------do--------	---------do---------	2-16-59	615	Dr	36	6	----------	9	25	Sd	Pl	U	8	T	------	Sand underlain by 2 ft clay.
23J1	L. Szabo	Lakeland Well Drillers	4-25-57	625	J	108	2	S; 3½ft, 60g	96	10	Sd	Pl	C	8	D	1/2	Ca, L.
23Q1	W. Werner	Hunts Hoosier Hardware	1952	635	J	90	2	----------	---	---	------	--	-----	---	---	------	No water reported; 70 ft blue clay with very little gravel overlain by 20 ft fine sand and clay.
24R1	F. Siscko	Lakeland Well Drillers	7-25-56	640	J	54	2	S; 4ft, 80g, dia 1	---	---	Sd	Pl	-----	0	D	------	
25B1	C. Parns	---------do---------	12-21-56	645	J	170	2	S; 3½ft, 10sl, dia 1½	---	---	Sd	Pl	-----	50	P	------	Yield about 10 gpm; Ca.
25D2	S. Back	---------do---------	1- 8-57	645	J	141	2	S; 5½ft, 80g, dia 1	136	8	Sd	Pl	C	10	---	------	L.
25G1	Green Acres Trailer Court	---------do---------	4- 5-57	640	Dr	113	4	S; 6½ft, 60g, dia 2	90	23	Sd	Pl	C	3	N	------	L.
25H1	D. Aorman	Mr. Barnthouse	7-14-54	645	J	62	2	S; 4ft, 40sl, dia 1½	55	7	Sd	Pl	C	3	D	------	Yield 16 gpm; L.
25Q1	E. Richter	Hunts Hoosier Hardware	2-55	625	J	164	2	S; 4½ft, 60g	160	4	Sd	Pl	C	---	D	J1/2	Flowed 2 gpm; pumped 13 gpm; white sand overlain by 160 ft blue and brown sandy clay; Ca.

38/4W-25R1	L. Minshaw	Lakeland Well Drillers	5-11-57	635	J	134	2	S; 4ft, 80g, dia 1	124	16	Sd	Pl	C	2	D	J1	Yield 33 gpm; Ca, L.
26A1	Lakeland School	B. J. Moore and Son	--------	635	Dr	107	---	S; 10ft, 88g	92	15	Sd	Pl	C	24	P	T3	Dd 4 ft pumping 15 gpm; Ca, L.
26D1	D. Michard	Mr. Barnthouse	6- 2-52	620	J	89	2	----------	---	---	-----	--	----	---	N	------	No water reported; blue clay from 0-89 ft; wells in area generally 10-12 ft deep.
26H1	R. and B. Kelly	Westville Well Co.	3- 2-56	645	J	54	2	S; 4½ft	---	---	Sd	Pl	----	---	D,S	------	
26P1	Peters Dairy Farm	Hunts Hoosier Hardware	3-16-57	620	J	103	2	S; 4½ft, 60g, dia 1	97	6	Sd,G	Pl	C	---	D,S	J1/2	Flowed 5 gpm; pumped 13 gpm; Ca, L.
28N1	Blockson and Co.	Layne-Northern Co., Inc.	11-19-45	590	Dr	36	30	Gp; S; 15ft, 80sl, dia 8	4	32	Sd	Pl	U	4	N	------	Dd 24 ft pumping 250 gpm; sand from 0-36 ft.
29N2	-------do--------	---------do---------	10- 3-40	590	Dr	26	34	Gp; S; 10ft, 105sl, dia 12	7	19	Sd,G	Pl	U	7	N	------	Dd 17 ft pumping 100 gpm; gray sand with some gravel overlain by 17 ft brown and yellow sand.
29N3	-------do--------	---------do---------	3-30-50	590	Dr	468	8	Oh	210	240	Ls,Ss	D,S	C	+52	Do	------	Flowed 780 gpm; bedrock at 148 ft; L.
29N4	-------do--------	---------do---------	11- 1-54	590	J	22	2½	----------	5	17	Sd	Pl	U	5	T	------	Sand from 0-22 ft.
29N5	-------do--------	---------do---------	9- 9-49	590	Dr	33	8	----------	7	20	Sd,G	Pl	U	7	T	------	L.
29N6	-------do--------	---------do---------	9-14-49	590	Dr	33	---	----------	---	---	Sd	Pl	----	---	T	------	L.
29K1	Dune Theater Corp.	B. J. Moore and Son	2- 8-56	609	J	53	2	----------	22	26	Sd,G	Pl	U	22	T	------	L.
29K2	Lido Theater	---------do---------	2-58	612	Dr	47	12	S; 20ft, 88g	22	25	Sd	Pl	U	22	---	T7-1/2	L.
29L1	Pullman Standard Car Manufacturing Co.	Layne-Northern Co., Inc.	--------	600	Dr	220	---	----------	100	120	Sd	Pl	C	---	---	N	Flowed; L.
30K1	South Shore Railroad	----------	1899	615	Dr	950	10	Oh	---	---	Ls	D,S	C	---	Do	------	Flowed 70 gpm; bedrock at 190 ft; L.
31R1	Indiana State Prison	Indiana-Michigan Water Development Co.	5- 3-38	620	Dr	126	4	----------	---	---	Sd	Pl	C	---	T	------	Flowed; see log well 31R2.
31R2	-------do--------	---------do---------	6-30-39	620	Dr	130	12	S; 15ft, 15sl, dia 10	74	56	Sd	Pl	C	---	N	------	Dd 7 ft pumping 200 gpm; flowed 140 gpm; discharge 3/4-inch pipe measured 2 gpm, 3-13-57; water level measured 8.6 ft above lsd, 3-13-57; Ca, L.
33J1	Joy Manufacturing Co.	Mr. Doyle	1929	627	Dr	382	8	----------	---	---	-----	--	----	---	---	------	Flowed 1,000 gpm; 182 ft limestone overlain by 200 ft sand, hardpan, and shale; water from limestone had hydrogen sulfide gas.
33J2	-------do--------	----------	3-15-25	627	Dr	238	8	----------	112	126	Sd,G	Pl	C	+3	T	------	Flows; Ca, L.
33R1	-------do--------	Layne-Northern Co., Inc.	3- 6-57	627	Dr	80	16	----------	---	---	-----	--	----	---	---	------	Filled with concrete; for testing drilling equipment; L.
34A1	Mrs. Joors	Mr. Barnthouse	9-25-52	620	J	61	2	S; 4½ft, 60g	51	10	Sd	Pl	C	20	D	------	Yield 15 gpm; white sand overlain by 51 ft blue clay and sand; Ca.
34B1	J. R. Sterling	---------do---------	5-12-54	625	J	19	2	S; 4ft, 60g	14	5	Sd	Pl	C	8	D	P	Yield 15 gpm; sand overlain by 14 ft yellow clay.
34M1	W. Stib	----------	--------	620	Dm	17	1¼	S; 3ft, 60g, dia 1¼	---	---	Sd	Pl	----	---	---	1/2	
34J1	R. Gielow	Westville Well Co.	1-24-56	625	J	28	2	S; 4½ft	---	---	Sd	Pl	----	---	D	1/2	Ca.
34J2	C. Wozniac	Lakeland Well Drillers	12-29-56	625	J	27	2	S; 3½ft, 80g, dia 1	---	---	Sd	Pl	----	13	D	J1/3	Yield 15 gpm.
34P1	C. Phillips	Hunts Hoosier Hardware	8-10-54	630	J	32	2	S; 5ft, 80g	26	6	Sd	Pl	C	5	D	J1/2	Yield 15 gpm; L.
34P2	-------do--------	---------do---------	4-57	630	J	33	2	S; 4½ft, 60g, dia 1	---	---	Sd	Pl	----	8	D1	J1/3	Yield 8 gpm; Ca, L.
34R1	E. Wackrow	---------do---------	--------	630	J	30	2	S; 60g	---	---	Sd,G	Pl	----	10	D	------	Yield 15 gpm; white sand and gravel overlain by 26 ft brown sand and clay.
34R2	J. Gombala	Lakeland Well Drillers	3-26-57	630	J	28	2	S; 4ft, 60g, dia 1	---	---	Sd	Pl	----	13	D	J1/2	Yield 15 gpm.
35E1	Schumake Construction Co.	Hunts Hoosier Hardware	7-53	620	J	21	2	S; 60g	18	4	Sd,G	Pl	C	8	I	------	White medium sand and gravel overlain by 18 ft clay; blue clay at 22 ft.
35E2	Country Cousin Drive-In	---------do---------	--------	620	J	10	2	S; 4½ft, 60g, dia 1	8	11	Sd	Pl	U	8	P	J	Yield 8 gpm; white sand overlain by 14 ft brown sand and dirt; water from several wells drilled into white coarse sand from 118-125 ft had strong saline taste; blue clay from 22-188 ft; Ca.
35K1	Phelps and Peck, Inc.	Indiana-Michigan Water Development Co.	11- 3-44	620	Dr	140	6	----------	127	13	Sh	D	C	---	T	------	Shale contained saline water and hydrogen sulfide gas; L.
36B1	Palmer Dairy	---------do---------	9- 8-45	630	Dr	188	6	S; 8ft, 25sl, dia 5½	180	8	Sd	Pl	C	---	I	T5	Flows 6 gpm; dd 80 ft pumping 40 gpm; L.
36B2	-------do--------	---------do---------	4-29-50	630	Dr	197	8	S; 7ft, 40sl, dia 5½	187	10	Sd,G	Pl	C	---	I	T5	Flows; dd 140 ft after 6 hr pumping 40 gpm; Ca, L.
36K1	212-Outdoor Theater	L. W. Ackermann	1948	635	J	156	3	S; 8ft, 60g	148	8	G	Pl	C	4	P	J1	Yield 30 gpm.

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	Conditions of occurrence				
38/4W-36B4	212-Outdoor Theater	D. J. Moore and Son	About 1952	635	--	171	---	----------	---	---	Sd	Pl	-----	18	T	------	L.
36E1	Michigan City	L. W. Ackerman	About 1950	630	J	140	2	S; 40g	---	---	Sd,G	Pl	C	---	P	------	Discharge measured 3 gpm, 3-12-57; water level measured 5.0 ft above lsd, 3-12-57; Ca.
36F1	W. Folga	Lakeland Well Drillers	8-14-57	640	J	140	2	S; 5½ft, 80g, dia 1	---	---	Sd	Pl	----	---	P	------	Ca.
36F2	K. Fisher	Hunts Hoosier Hardware	4- 4-59	640	J	94	2	S; 4ft, 60g, dia 1	88	6	Sd	Pl	C	10	D	J1/4	Ca, L.
36G1	E. Pawloski	Lakeland Well Drillers	12- 5-56	640	J	130	2	S; 4ft, 80g, dia 1	---	---	Sd	Pl	C	---	D	J	Ca.
36J1	J. H. Phillips	H. Hope	4-19-52	640	J	149	2	S; 80g	---	---	Sd	Pl	-----	---	N	J	Yield 6 gpm.
36J2	Television Associates	Lakeland Well Drillers	--------	---	J	180	2	S; 18ft, 100g, dia 1	---	---	Sd	Pl	C	50	P	J	Ca.
36P1	Swan Lake Memorial Gardens	Indiana-Michigan Water Development Co.	7-25-54	635	Dr	108	8	S; 20ft, 12sl	83	25	Sd	Pl	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	Thickness (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	Thickness (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	Thickness (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	Thickness (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	

Well 33/4W-8A1

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

Material	Thickness (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.

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.

Quaternary system:			
Recent and Pleistocene series:			
Sand	36	36	
Devonian system:			
Upper Devonian series?:			
Shale	97	133	
Devonian and Silurian system; undifferentiated:			
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	Thickness (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; undifferentiated:			
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	

Well 33/4W-19G1--Continued

Material	Thickness (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; undifferentiated:			
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	Thickness (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	

Well 33/4W-29M1--Continued

Material	Thickness (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	Thickness (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	Thickness (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.

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.

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.

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	Thickness (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.

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.

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.

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.

Quaternary system:			
Recent and Pleistocene series:			
Top soil	5	5	
Sand, yellow	28	33	
Sand, medium, yellow	6	39	

Well 35/2W-4M3--Continued

Material	Thickness (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	

Well 35/2W-8G1--Continued

Material	Thickness (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	Thickness (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	Thickness (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	Thickness (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.

Material	Thickness (feet)	Depth (feet)	Remarks
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.

Material	Thickness (feet)	Depth (feet)	Remarks
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, undifferentiated:			
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	Thickness (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	

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

Well 36/1W-33H1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Devonian system:			
Upper Devonian series:			
Shale, brown	72	223	
Shale, gray	2	225	
Shale, brown	15	240	
Shale, gray	2	242	
Devonian and Silurian system; undifferentiated:			
Lime, white	13	255	
Lime, brown	8	263	
Lime, white and brown	14	277	
Slate, black	5	282	Shale.
Lime, white and brown	20	302	
Lime, gray	28	330	
Anhydrite, white	20	350	
Lime	45	395	
Lime, white and gray	130	525	
Lime, brown and gray	35	560	
Lime, white	30	590	
Lime, white and gray	10	600	
Record missing	10	610	
Lime, white	115	725	
Lime, hard, dark-gray	20	745	
Lime, light-gray	105	850	
Lime, white	25	875	
Lime, hard, gray	25	900	
Lime, hard, brown and gray	10	910	
Lime, hard, brown	48	958	
Lime, hard, white and brown	17	975	
Ordovician system:			
Upper Ordovician series?:			
Shale, soft, gray	11	986	
Lime and shale; hard, gray	34	1,020	
Lime, hard, gray	9	1,029	
Shale, gray	1	1,030	
Lime, hard, gray	8	1,038	
Shale, gray	11	1,049	
Lime, gray and black	2	1,051	
Shale, soft, gray	71	1,122	
Shale, hard, gray	14	1,136	
Shale, brown	24	1,160	
Shale, gray	6	1,166	
Shale, brown	99	1,265	
Shale, light-gray	11	1,276	
Middle Ordovician series:			
Limestone, hard, brown	92	1,368	

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

Well 36/2W-5C1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel	180	180	
Mississippian system?:			
Lower Mississippian series?:			
Shale, green-brown	133	313	
Devonian system:			
Upper Devonian series:			
Shale, brown	71	384	
Middle Devonian series:			
Limestone and dolomite	156	540	
Silurian system:			
Middle Silurian series:			
Dolomite	505	1,045	
Ordovician system:			
Upper Ordovician series:			
Shale and shaly dolomite	303	1,348	
Middle Ordovician series:			
Dolomite	217	1,565	

Well 36/2W-6E2

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

Quaternary system:			
Recent and Pleistocene series:			
Muck	5	5	
Clay, sandy, yellow	25	30	
Sand, dirty, gray	10	40	
Sand, gray	10	50	
Sand and some gravel	15	65	
Sand, fine, gray	36	101	

Well 36/2W-6E3

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil	2	2	
Clay, sandy, yellow	17	19	
Sand and gravel	13	32	
Sand, gray, and gravel	23	55	
Sand	29	84	
Sand, fine	4	88	

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

Well 36/2W-7G1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil	2	2	
Muck	2	4	
Clay, sandy	23	27	
Sand and gravel; muddy	31	58	
Sand, fine, little muddy	35	93	
Sand, coarse	11	104	

Well 36/2W-10M1

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

Quaternary system:			
Recent and Pleistocene series:			
Dirt and clay	15	15	
Sand, brown, and dirt	23	38	
Sand, coarse, brown	6	44	

Well 36/2W-15A1

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

Quaternary system:			
Recent and Pleistocene series:			
Dirt, black, and sand	18	18	
Sand, gravel, and clay	7	25	
Sand, brown	7	32	

Well 36/2W-19B1

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

Quaternary system:			
Recent and Pleistocene series:			
Dirt, black	2	2	
Sand, brown	13	15	
Clay, gravel, and sand	7	22	
Silt and fine sand	7	29	
Sand, coarse, white	6	35	

Well 36/2W-23L1

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

Quaternary system:			
Recent and Pleistocene series:			
Soil	5	5	
Sand	20	25	
Sand and shale pieces	2	27	
Sand	32	59	
Marl and sand	1	60	
Quicksand	16	76	

Well 36/2W-23L1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, blue	3	79	
Sand, fine	70	149	
Gravel	24	173	
Clay and shale; mixed	32	205	
Devonian system:			
Upper Devonian series:			
Shale, rotten, black and greenish	37	242	
Shale, brown	11	253	
Rock, hard, white	1	254	
Rock, soft, black	3	257	

Well 36/2W-31E2

Type of record: Driller's log. Altitude: 745 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil	2	2	
Sand, brown	30	32	
Sand, gray	8	40	
Sand, gray, and coarse gravel	16	56	
Sand, gray	32	88	Clay at 88 feet.

Well 36/2W-31P1

Type of record: Driller's log. Altitude: 737 feet.

Quaternary system:			
Recent and Pleistocene series:			
Soil	2	2	
Clay	2	4	
Sand, dirty	13	17	
Sand, medium, yellow	16	33	
Sand, coarse, gray	3	36	
Sand, very fine	6	42	
Sand, fine, and some coarse sand or gravel	8	50	
Sand, fine to medium	39	89	Clay at 89 feet.

Well 36/2W-32K1

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

Quaternary system:			
Recent and Pleistocene series:			
Soil	3	3	
Sand, dirty	17	20	
Sand, coarse	40	60	
Sand, medium	4	64	
Sand, coarse	20	84	Clay at 84 feet.

Well 36/2W-33J1

Type of record: Driller's log. Altitude: 738 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil	4	4	
Sand, medium	13	17	
Sand, fine, yellow	22	39	
Sand, medium	6	45	
Sand, coarse	25	70	
Gravel	3	73	Clay at 73 feet.

Well 36/2W-34L1

Type of record: Driller's log. Altitude: 738 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil	2	2	
Sand, medium	36	38	
Sand, coarse	31	69	
Clay, blue	1	70	

Well 36/3W-1E2

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

Quaternary system:			
Recent and Pleistocene series:			
Soil, dirty	15	15	
Gravel, yellow	15	30	
Sand and gravel	18	48	
Sand	10	58	
Sand and gravel	36	94	
Sand	16	110	

Well 36/3W-1L2

Type of record: Driller's log. Altitude: 797 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil	5	5	
Sand and clay	5	10	
Sand, coarse, and clay	12	22	
Sand	6	28	
Gravel	10	38	
Gravel and sand	10	48	
Sand	18	66	

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

Well 36/3W-1Q1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Gravel, brown	18	18	
Sand, brown	14	32	
Sand, white, and gravel	8	40	

Well 36/3W-3J1

Type of record: Driller's log. Altitude: 822 feet.

Quaternary system:			
Recent and Pleistocene series:			
Gravel, brown, and sand	18	18	
Gravel, brown, and clay	18	36	
Sand, white, and clay	6	42	
Sand, white, and gravel	6	48	

Well 36/3W-3K1

Type of record: Driller's log. Altitude: 832 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil	2	2	
Clay, hard	4	6	
Gravel with rocks	9	15	
Gravel	25	40	
Sand, yellow	10	50	
Sand, gray	144	194	Blue clay at 194 feet.

Well 36/3W-3P1

Type of record: Driller's log. Altitude: 827 feet.

Quaternary system:			
Recent and Pleistocene series:			
Dirt, black	2	2	
Clay and brown sand	16	18	
Sand, brown, and gravel	32	50	
Sand, white, and gravel	4	54	

Well 36/3W-3Q3

Type of record: Driller's log. Altitude: 827 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow	7	7	
Clay, blue	31	38	
Hardpan	6	44	
Sand	9	53	

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

Well 36/3W-6H1

Type of record: Driller's log. Altitude: 840 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, brown, and gravel	50	50	
Clay, blue	10	60	
Clay and sand	5	65	
Sand and gravel	4	69	

Well 36/3W-9R1

Type of record: Driller's log. Altitude: 813 feet.

Quaternary system:			
Recent and Pleistocene series:			
Loam, black	5	5	
Clay, blue	23	28	
Sand, medium	12	40	

Well 36/3W-10A2

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

Quaternary system:			
Recent and Pleistocene series:			
Gravel, brown	18	18	
Gravel, brown, with clay	18	36	
Sand, brown, and gravel	6	42	
Gravel, brown	4	46	

Well 36/3W-10A3

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, medium, brown, and hard gravel	20	20	
Sand, medium, red	30	50	
Sand, soft, gray	9	59	

Well 36/3W-10C1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay	38	38	
Sand, yellow	10	48	
Gravel, gray, and sand	26	74	

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

Well 36/3W-10G1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Dirt, black	5	5	
Sand, brown, and dirt	13	18	
Clay, brown	7	25	
Clay, gravel, and sand	18	43	
Sand, coarse, brown	7	50	

Well 36/3W-10K1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay and sand	18	18	
Gravel and sand	12	30	
Sand, brown	8	38	
Sand, brown and white	5	43	

Well 36/3W-16D1

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

Quaternary system:			
Recent and Pleistocene series:			
Dirt and clay	15	15	
Gravel and sand	9	24	
Sand, brown, and clay	10	34	
Sand, white, and gravel	6	40	

Well 36/3W-18E1

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

Quaternary system:			
Recent and Pleistocene series:			
Dirt, clay, and sand	18	18	
Sand, brown, with clay and gravel	12	30	
Sand, brown, and gravel	11	41	

Well 36/4W-1G1

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

Quaternary system:			
Recent and Pleistocene series:			
Dirt, black, and sand	18	18	
Gravel and brown sand	36	54	
Gravel and brown clay	22	76	
Sand, white, and gravel	6	82	

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

Well 36/4W-2D1

Type of record: Driller's log. Altitude: 774 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil	1	1	
Sand	1	2	
Silt	18	20	

Well 36/4W-3A2

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil, black and brown, with silt and clay	2	2	
Sand, silt, and peat; brown to yellow, stratified, with some shells	4	6	
Peat, black, and gray organic silt; with sand, shells and some wood	20	26	
Clay, very stiff, silty, sandy, pebbly, blue-gray	4	30	
Clay, hard, silty, gray, with some stones	6	36	
Sand, fine to coarse, medium dense, silty, brown to yellow	4	40	
Sand, fine to coarse, gravelly, brown and gray, stratified, with some silt	2	42	

Well 36/4W-3G2

Type of record: Driller's log. Altitude: 804 feet.

Quaternary system:			
Recent and Pleistocene series:			
Cinders and brown, silty, fine sand	2	2	
Sand, fine, silty, brown, with pebbly clay and silt	2	4	
Silt, pebbly, brown	10	14	
Sand, fine to medium silty, stratified, with some gravel	6	20	
Sand, fine to medium, gray, with silt and gravel	2	22	
Silt, stiff, gravelly, gray	3	25	
Silt, stiff, gray	4	29	

Well 36/4W-3G2--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, fine to medium, silty, gravelly, brown, stratified with gray stiff silt----------	11	40	
Sand, fine, dense, silty, tan and gray----------	12	52	

Well 36/4W-3G4

Type of record: Driller's log. Altitude: 819 feet.

Quaternary system:			
Recent and Pleistocene series:			
Silt, brown, with trace of fine sand----------	4	4	
Clay, silty, with trace of gravel----------	1	5	
Silt, stiff to very stiff, clayey, with trace of gravel--	5	10	
Silt, very stiff, gravelly, brown----------	8	18	
Sand, fine to coarse, silt, and pebbles; brown and tan, stratified----------	2	20	
Sand, fine to coarse, silty, gravelly, brown and tan, with some pebbles----------	12	32	
Silt, very stiff, brown, stratified----------	6	38	
Sand, fine to medium, dense, tan----------	4	42	
Sand, fine to medium, dense, silty, tan----------	8	50	
Sand, dense, silty, gravelly, brown and tan----------	2	52	

Well 36/4W-3N1

Type of record: Driller's log. Altitude: 861 feet.

Quaternary system:			
Recent and Pleistocene series:			
Silt, clayey, brown and gray, with some pebbles----------	4	4	
Clay, silty, pebbly, brown------	1	5	
Silt and clay; pebbly, brown----	1	6	
Silt, stiff, clayey, pebbly, brown and gray----------	2	8	
Clay and silt; very stiff, pebbly, brown----------	6	14	

Well 36/4W-3N1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, fine to medium, brown and tan	9	23	
Sand, fine to coarse, clayey, silty, gravelly, brown, stratified	10	33	
Sand, medium, silty, brown and tan, with some gravel	9	42	

Well 36/4W-3N2

Type of record: Driller's log. Altitude: 842 feet.

Quaternary system:			
Recent and Pleistocene series:			
Silt and clay; brown, with trace of brown to gray fine sand	2	2	
Silt, clayey, sandy, pebbly, brown	2	4	
Clay, sandy, brown	6	10	
Silt, sandy, with trace of clay and pebbles	2	12	
Silt, sandy, brown, stratified with brown, gravelly, fine sand	4	16	
Sand, fine, medium to dense, silty, brown, with some gravel	7	23	
Clay and silt, stiff, pebbly, gray	3	26	
Silt, sandy, pebbly, brown to gray	4	30	
Sand, fine to coarse, silty, gravelly, brown	7	37	
Sand, fine, brown to tan	5	42	

Well 36/4W-5J1

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil and brown sand	10	10	
Clay, yellow	24	34	
Clay, gray	25	59	
Sand, brown, with few small gravel	12	71	
Sand, light-brown	20	91	
Sand, muddy, and gravel; with chunks of brown shale	6	97	
Sand, gray	16	113	

Well 36/4W-5M1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, soft, brown	25	25	
Clay, medium, gray	56	81	
Sand, gray, and medium gravel	6	87	

Well 36/4W-7G1

Type of record: Driller's log. Altitude: 776 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil, black, and brown sandy silt	2	2	
Sand, fine, brown, with some shale pebbles and trace of silt	3	5	
Clay, stiff, silty, with some sand and pebbles	6	11	
Sand, medium to coarse, brown, stratified with silt	5	16	
Sand, fine, with some silt	9	25	
Sand, silty, brown, stratified with silt	1	26	
Sand, brown, and silt; with trace of gravel	2	28	
Sand, fine to coarse, brown, with some silt seams	2	30	

Well 36/4W-8A1

Type of record: Driller's log. Altitude: 791 feet.

Quaternary system:			
Recent and Pleistocene series:			
Silt, pebbly, brown, stratified with brown and tan pebbly silt	10	10	
Silt, fine, sandy, pebbly, stratified with brown and tan fine to medium sand	5	15	
Sand, fine to medium, brown, with trace of silt and gravel	5	20	
Sand, fine, silty, dark-brown	2	22	
Clay and silt; gray	4	26	
Silt, clayey, gray	6	32	
Silt, gray, stratified with gray soft clay; varved	3	35	
Clay, silty, gray, with few stones	16	51	
Sand, fine to coarse, gray to yellow	11	62	

Well 36/4W-8A1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Silt, gray, with trace of clay--	4	66	
Sand, fine, gray to yellow, with trace of silt----------	20	86	

Well 36/4W-8A2

Type of record: Driller's log. Altitude: 778 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, sandy, brown and gray-----	3	3	
Clay, stiff, silty, brown and gray, with some small pebbles-	3	6	
Clay, stiff, sandy, tan and brown, with some small pebbles----------	1	7	
Silt, stiff, tan, with trace of clay----------	3	10	
Sand, dense, brown, with trace of clay and silt----------	1	11	
Clay, silty, gray, with sand and few pebbles----------	4	15	
Sand, clayey, brown----------	10	25	
Silt, gray, with trace of clay and few small stones----------	5	30	
Silt, gray, clay, and sand-----	10	40	
Silt, gray, with trace of clay and sand----------	12	52	
Silt, gray, and gray fine sand--	4	56	
Sand, fine to coarse, brown and gray, with some shale pebbles-	19	75	
Sand, fine, silty, gray----------	7	82	

Well 36/4W-8A4

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

Quaternary system:			
Recent and Pleistocene series:			
Silt, sandy, brown----------	5	5	
Silt, loose, sandy, pebbly, gray, with some organic matter----------	15	20	
Sand, fine, dark-gray----------	5	25	
Sand, fine, silty, dark-gray----	2	27	
Silt, clayey, gray, with some fine to medium sand----------	18	45	
Silt, clayey, gray, stratified with fine to medium sand-----	7	52	

Well 36/4W-8A5

Type of record: Driller's log. Altitude: 769 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Silt, brown and gray, with trace of fine sand and organic matter	12	12	
Silt, fine to coarse, gravelly, gray	10	22	
Silt, fine to coarse, sandy, gravelly, gray	6	28	
Sand, fine to medium, brown and tan	6	34	
Sand, fine to medium, brown and tan, stratified with gray silt	1	35	
Silt, gray	17	52	
Sand, fine, gray, stratified with gray silt	7	59	
Sand, fine, brown, with few pebbles	3	62	

Well 36/4W-8A6

Type of record: Driller's log. Altitude: 768 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Fill; clay, silt, sand, and gravel	6	6	
Clay, gray and brown, and pebbly silty; stratified	19	25	
Clay, pebbly, gray, and fine to coarse gravel	5	30	
Clay, pebbly, gray, coarse sand, and gravel	5	35	
Sand, coarse, brown and gray, and fine gravel with silt	7	42	
Sand, fine to medium, brown and gray	8	50	

Well 36/4W-8A8

Type of record: Driller's log. Altitude: 773 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Fill; silt, pebbly, brown, with some organic matter	12	12	
Silt, clayey, pebbly, brown and gray	10	22	

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

Well 36/4W-8A8--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, fine to coarse, gravel, and silty clay; with few large pebbles	3	25	
Silt, pebbly, gray, and clay; with few large pebbles	3	28	
Sand, fine to coarse, and gravel; silty, gray	4	32	
Silt, gray, with trace of fine sand and clay	13	45	
Sand, fine to coarse, silty, gray, with few large pebbles	7	52	

Well 36/4W-8A10

Type of record: Driller's log. Altitude: 776 feet.

Quaternary system:			
Recent and Pleistocene series:			
Fill; brown and gray pebbly silt	4	4	
Silt, pebbly, brown and gray, with trace of sand and clay	9	13	
Silt and clay, pebbly, gray	8	21	
Silt, gray, and clay; stratified with fine to coarse sand and gravel	4	25	
Silt and clay, pebbly	1	26	
Sand, fine to coarse, silty, and gravel	2	28	
Sand, fine to coarse, silty, and gravel; stratified	9	37	
Sand, fine to coarse, gravelly, gray, stratified	15	52	

Well 36/4W-8A11

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, brown	18	18	
Sand, brown	10	28	
Sand and clay	7	35	
Sand, coarse, white	5	40	

Well 36/4W-8A14

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

Quaternary system:			
Recent and Pleistocene series:			
Clay	18	18	

Well 36/4W-8A14--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, brown, and clay----------	32	50	
Sand, coarse, white----------	10	60	

Well 36/4W-8C2

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil, sandy, organic, brown to black----------	2	2	
Sand, silty, brown to black, with trace of clay----------	2	4	
Record missing----------	1	5	
Sand, fine, silty, gray----------	1	6	
Sand, fine, gray----------	2	8	
Sand, medium to fine, gray----------	2	10	
Sand, fine, gray----------	1	11	
Sand, medium to fine, gray, with some stones----------	11	22	
Sand, fine, gray, stratified----	3	25	
Sand, fine, medium-dense, gray, stratified with thin silt seams----------	1	26	
Sand, fine, medium-dense, gray, stratified with silt seams; trace of gravel----------	14	40	
Sand, coarse, dense, gray, and gravel; with some silt--------	5	45	
Sand, fine, dense, gray, stratified with some silt seams; trace of gravel--------	5	50	
Sand, coarse, gray, and pea gravel; clean----------	6	56	
Sand, fine to coarse, gray, and some gravel----------	4	60	
Sand, fine to coarse, dense, gray, and gravel; with some silt seams----------	2	62	
Sand, gray, and some gravel----	3	65	
Sand, fine, dense, gray, stratified with some silt seams: trace of gravel--------	5	70	
Sand, fine to medium, medium-dense, gray, stratified, with trace of silt and some stone---	5	75	
Sand, medium to coarse, medium-dense, gray, with trace of silt and gravel----------	5	80	

Well 36/4W-8C2--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, fine to coarse, medium-dense, gray, stratified with some silt seams	2	82	

Well 36/4W-8C3

Type of record: Driller's log. Altitude: 771 feet.

Quaternary system:		
Recent and Pleistocene series:		
Silt, brown, with trace of sand and brown clay	4	4
Sand, fine, silty, brown	1	5
Silt and fine sand; brown	1	6
Sand, fine, brown, with some silt	9	15
Sand, fine, brown, with some silt and few pebbles	1	16
Sand, fine, brown, with some silt, and trace of gray, fine to medium sand, and few pebbles	4	20
Sand, fine to medium, brown and gray, with some gravel and shale	5	25
Sand, fine to medium, with trace of brown and gray medium sand	5	30
Sand, medium to dense	5	35
Sand, dense	1	36
Sand, dense, gray, with some small gravel	4	40
Sand, fine to coarse, and gravel; trace of dense silt	2	42
Sand, fine to medium, gray	3	45
Sand, fine to medium, gray and brown, with some gravel and stones	1	46
Sand, fine, dense, gray, with trace of silt	4	50
Silt, fine, sandy, with some gravel	2	52
Silt, fine, gray, and sand	3	55
Sand, fine, gray, with trace of silt	5	60
Sand, fine, silty, gray	5	65
Sand, silty, very dense	5	70
Sand, very dense, clean	2	72
Record missing	8	80

Well 36/4W-8C3--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, brown and gray, and gravel; with some silt--------	2	82	

Well 36/4W-8C5

Type of record: Driller's log. Altitude: 768 feet.

Quaternary system:			
Recent and Pleistocene series:			
Silt, brown and gray, with some organic matter----------	2	2	
Silt, brown and gray, with some organic matter and trace of small gravel and sand------	2	4	
Silt, brown and gray, with trace of small gravel and brown medium sand----------	2	6	
Silt, brown, with trace of gray silt, medium sand, and some small gravel----------	4	10	
Silt, brown, with trace of brown fine sand and few pebbles----------	4	14	
Sand, fine to coarse, with some gravel and silt----------	1	15	
Sand, fine to coarse, silty, brown, with some gravel-------	1	16	
Sand, fine to coarse, silty, brown, with some shale stones and large gravel----------	4	20	
Silt, brown, with clay, brown fine sand, gravel, and shale stones----------	6	26	
Silt and fine sand; gray--------	1	27	
Silt and fine sand; gray, with some gravel----------	2	29	
Silt and fine to medium sand; gray, with some gravel--------	6	35	
Sand, fine to medium, brown and gray, with some silt and gravel----------	10	45	
Sand, fine to medium, gray, with trace of silt----------	15	60	
Sand, fine to medium, brown and gray, with trace of silt--	5	65	
Sand, fine to medium, silty, tan, with some gravel and shale----------	11	76	

Well 36/4W-8C5--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, fine to medium, gray, with trace of silt	6	82	

Well 36/4W-8C6

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

Quaternary system:			
Recent and Pleistocene series:			
Silt, brown, with some organic matter	2	2	
Silt, soft, gray, with some organic matter	2	4	
Silt, soft, brown and gray, with some organic matter	1	5	
Silt, soft, brown and gray, with trace of clay, brown silty sand, and silt	1	6	
Silt, brown and tan, with some clay	2	8	
Sand, fine to coarse, silty, brown and tan, with some gravel	2	10	
Silt, fine, sandy, brown, with few pebbles	2	12	
Sand, fine to medium, brown, with some silt	3	15	
Sand, silt, and gravel; very stiff, gray	1	16	Till.
Till, stiff, gray	20	36	
Clay	4	40	
Till, stiff, gray, with some gray sand	2	42	
Gravel and sand; gray	4	46	
Sand, fine, gray, and silt	10	56	
Sand, fine to coarse, gray, and gravel	6	62	
Sand, fine to coarse, gray and brown, and gravel; with few shale pebbles and trace of silt	6	68	
Sand, fine to medium, gray, with some loose shale and silt	12	80	
Silt, fine, gray, and gray fine to coarse sand and gravel with some shale stones	5	85	
Sand, fine to medium, gray, with some shale and trace of silt	3	88	

Well 36/4W-8C6--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, fine to coarse, gray, and gravel	4	92	

Well 36/4W-8C7

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, sandy, brown and yellow	4	4	
Sand, fine, brown	1	5	
Clay, silty, brown and gray	3	8	
Sand, fine to coarse, brown	3	11	
Clay, brown	4	15	
Clay, silty, gray, with some pebbles	1	16	
Sand, coarse, brown, gray gravel, and gray silty clay	4	20	
Clay, silty, gray, with some pebbles	16	36	
Silt, gray, and sand; with some gravel	14	50	
Silt, gray, with trace of clay	2	52	
Silt, clayey, gray, with some sand and gravel	8	60	
Gravel with some silt and clay	2	62	
Sand, gray, and grave; with trace of clay	13	75	
Silt, gray, and gravel; with some sand	1	76	
Silt, gray, and clay; with some gravel	4	80	
Clay, gray, with trace of silt, sand, and gravel	5	85	
Sand, fine, gray, with some silt, clay, and gravel	7	92	

Well 36/4W-8D2

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

Quaternary system:			
Recent and Pleistocene series:			
Silt and sand; brown, with some organic matter and few pebbles	4	4	
Sand, fine, silty, brown, with some pebbles and clay	1	5	

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

Well 36/4W-8D2--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, fine to coarse, silty, brown and gray, with some clay and gravel	9	14	
Silt, sandy, pebbly, brown and gray	4	18	
Sand, fine, gray, with trace of silt	2	20	
Sand, fine to coarse, with some gravel and silt	1	21	
Clay, pebbly, gray	3	24	
Sand, fine to coarse, gray, with gravel and some silt	9	33	
Silt, sandy, gray	2	35	
Sand, fine, gray, and silt; stratified	3	38	
Sand, fine to medium, gravelly, gray, with some stones and trace of silt	14	52	

Well 36/4W-9C1

Type of record: Driller's log. Altitude: 813 feet.

Quaternary system:			
Recent and Pleistocene series:			
Silt, sandy, tan and brown	4	4	
Silt, clayey, brown, with few fine-sand seams	6	10	
Sand, fine to coarse, and gravel; brown to tan, with some silt, pebbles, and peat	5	15	
Sand, fine to coarse, brown, with trace of peat, gravel, and clay	1	16	
Sand, fine to coarse, gravel, peat, and clay; brown, silty	8	24	
Sand, fine to medium, silty, tan and brown	8	32	

Well 36/4W-9D1

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

Quaternary system:			
Recent and Pleistocene series:			
Silt, brown	11	11	
Clay, brown	3	14	
Silt, gray	2	16	
Clay, silty, sandy, brown	1	17	

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

Well 36/4W-9D1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Silt, pebbly, gray, with trace of brown silty sand	3	20	
Sand, fine, silty, pebbly, brown	5	25	
Sand, fine to coarse, silty, brown	7	32	
Sand, fine to coarse, silty, gravelly, brown	8	40	

Well 36/4W-12N1

Type of record: Driller's log. Altitude: 837 feet.

Quaternary system:			
Recent and Pleistocene series:			
Dirt, black, and sand	15	15	
Sand, clay, and gravel	21	36	
Sand and clay	14	50	
Sand, white, and clay	8	58	
Sand, white, and coarse gravel	4	62	

Well 36/4W-14P1

Type of record: Driller's log. Altitude: 827 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown, and clay	18	18	
Sand, brown, and gravel	18	36	
Clay, gravelly, blue	12	48	
Sand, white, and gravel	8	56	

Well 36/4W-15P1

Type of record: Driller's log. Altitude: 812 feet.

Quaternary system:			
Recent and Pleistocene series:			
Dirt, black, and clay	15	15	
Gravel and clay	15	30	
Clay and sand	12	42	
Sand, coarse, white	6	48	

Well 36/4W-19E1

Type of record: Driller's log. Altitude: 792 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil and brown clay	65	65	
Clay, blue	59	124	
Sand, muddy	8	132	

Well 36/4W-19E1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay	28	160	
Sand and gravel	9	169	

Well 36/4W-28N1

Type of record: Driller's log. Altitude: 802 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay and gravel; brown	35	35	
Gravel, gray	20	55	
Sand, fine	52	107	
Sand, medium	10	117	

Well 36/4W-30D1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, medium, brown	12	12	
Sand, medium, gray	18	30	
Sand, gray, and medium gravel	28	58	
Sand, medium, gray	6	64	

Well 36/4W-32L1

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil	2	2	
Sand and clay; mixed	16	18	
Sand, medium, gray	60	78	
Sand, fine	6	84	

Well 37/1W-5C1

Type of record: Driller's log. Altitude: 840 feet.

Quaternary system:			
Recent and Pleistocene series:			
Dirt, black, and sand	25	25	
Gravel and brown sand	55	80	
Sand, brown, and coarse gravel	13	93	

Well 37/1W-7R1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown	36	36	

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

Well 37/1W-7R1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Gravel	24	60	
Sand, brown, and gravel	20	80	
Sand, coarse, brown	5	85	

Well 37/1W-8N1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand	18	18	
Gravel and sand	46	64	
Sand, brown	4	68	

Well 37/1W-9L1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown	36	36	
Sand and clay	5	41	
Sand, white	49	90	Gravel at 90 feet.

Well 37/1W-16P1

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

Quaternary system:			
Recent and Pleistocene series:			
Dirt, black	3	3	
Sand, brown	22	25	
Gravel and sand	23	48	
Sand and clay	4	52	
Sand	18	70	
Gravel and coarse sand	18	88	
Sand, fine to coarse, brown	6	94	

Well 37/1W-17E1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown	36	36	
Gravel and sand	14	50	
Sand, fine, brown	6	56	
Clay, blue, and fine sand	19	75	
Sand, coarse, brown	7	82	

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

Well 37/1W-22D1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, brown	18	18	
Sand and gravel	21	39	
Sand and clay	11	50	
Sand, white	8	58	

Well 37/1W-29J1

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

Quaternary system:			
Recent and Pleistocene series:			
Gravel, brown	40	40	
Sand, brown, and gravel	40	80	
Gravel	4	84	

Well 37/1W-31C1

Type of record: Driller's log. Altitude: 787 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel	18	18	
Clay and sand	18	36	
Sand	14	50	
Sand, fine, brown	8	58	
Sand, coarse, brown	6	64	

Well 37/1W-31L1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown	18	18	
Gravel	18	36	
Sand, fine, brown	18	54	
Sand, coarse, brown	4	58	

Well 37/2W-1D2

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil	5	5	
Sand, brown	29	34	
Sand, brown	29	63	
Sand and shale	4	67	
Sand	11	78	
Sand, coarse	18	96	
Clay and fine sand	4	100	

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

Well 37/2W-1D2--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, fine----------	10	110	
Sand, fine----------	36	146	
Sand----------	25	171	

Well 37/2W-2A1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown----------	18	18	
Gravel, brown----------	18	36	
Sand, brown----------	18	54	
Gravel----------	4	58	

Well 37/2W-2M1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown----------	18	18	
Sand and gravel----------	42	60	
Sand, coarse----------	4	64	

Well 37/2W-3D2

Type of record: Driller's log. Altitude: 857 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, medium, silty, yellow-----	4	4	
Sand, fine to medium, clayey, yellow, and fine gravel-------	4	8	
Silt, very sandy, yellow--------	2	10	
Sand, fine to medium, clayey, yellow, and fine gravel-------	4	14	
Sand, fine to medium, silty, yellow, with pieces of broken rock----------	2	16	
Sand, fine, yellow----------	3	19	
Sand, fine to medium, silty, yellow----------	10	29	
Sand, fine, yellow----------	9	38	
Sand, fine to medium, silty, yellow, with trace of clay and gravel----------	3	41	

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

Well 37/2W-4A3

Type of record: Driller's log. Altitude: 858 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, medium, silty, yellow	6	6	
Silt, sandy, yellow	5	11	
Sand, fine to medium, silty, yellow, with trace of gravel	9	20	
Silt, very sandy, yellow	2	22	
Sand, fine, yellow	3	25	
Sand, fine to medium, silty, yellow, with trace of gravel	18	43	
Silt, sandy, yellow	9	52	
Clay, stiff, silty, blue	2	54	
Silt, sandy, yellow	1	55	

Well 37/2W-4A4

Type of record: Driller's log. Altitude: 857 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, medium, silty, yellow	3	3	
Clay, silty, sandy, yellow	3	6	
Clay, silty, yellow	2	8	
Silt, medium, very sandy, yellow	2	10	
Sand, fine to medium, clayey, yellow	3	13	
Sand, fine to medium, silty, yellow, with trace of clay	5	18	
Silt, sandy, yellow	2	20	
Sand, fine, silty, yellow	18	38	
Sand, fine to coarse, silty, yellow	1	39	
Silt, sandy, yellow	3	42	
Sand, fine to medium, clayey, yellow	6	48	

Well 37/2W-4N2

Type of record: Driller's log. Altitude: 861 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, medium, silty, sandy, yellow	6	6	
Clay, silty, yellow	5	11	
Sand, fine to medium, silty, yellow	3	14	
Sand, fine, silty, yellow	7	21	
Clay, silty, yellow	3	24	

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

Well 37/2W-4N2--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, silty, yellow, with trace of clay and gravel	4	28	
Sand, fine, silty, yellow	17	45	

Well 37/2W-5C1

Type of record: Driller's log. Altitude: 900 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand, fine, brown	68	68	
Clay and sand	12	80	
Sand, brown, and gravel; mixed	80	160	
Sand, coarse, brown	20	180	

Well 37/2W-5L1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown	80	80	
Sand, brown, and clay	31	111	
Sand, coarse, brown	8	119	

Well 37/2W-5R2

Type of record: Driller's log. Altitude: 852 feet.

Quaternary system:			
Recent and Pleistocene series:			
Loam, medium, clayey, sandy, brown	2	2	
Clay, stiff, silty, brown	4	6	
Sand, fine to medium, clayey, brown, with some fine gravel	27	33	
Sand, fine to medium, clayey, brown	7	40	

Well 37/2W-5R7

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

Quaternary system:			
Recent and Pleistocene series:			
Silt, medium, clayey, brown	6	6	
Clay, silty, sandy, yellow	5	11	
Silt, medium, sandy, yellow	5	16	
Sand, fine to medium, silty, yellow	5	21	
Sand, fine to coarse, clayey, yellow, with fine gravel	3	24	

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

Well 37/2W-5R7--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Silt, sandy, yellow	2	26	
Sand, fine, silty, yellow	20	46	

Well 37/2W-7E3

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Silt, sandy, brown	2	2	
Clay, silty, yellow	3	5	
Silt, sandy, yellow, with trace of clay	5	10	
Sand, fine to medium, silty, yellow, with trace of gravel	42	52	

Well 37/2W-7H1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil and clay	10	10	
Sand, yellow	25	35	
Sand, fine, gray	50	85	
Sand, gray	25	110	Clay at 110 feet.

Well 37/2W-7H2

Type of record: Driller's log. Altitude: 787 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Loam, clayey, silty, brown	2	2	
Sand, fine to coarse, silty, brown, with traces of small gravel	6	8	
Sand, medium to coarse, yellow and brown, with trace of silt	2	10	
Sand, medium, yellow, with trace of silt	2	12	
Sand, medium, yellow, with trace of small gravel	4	16	
Sand, coarse, silty, yellow, with small gravel and thin yellow silt seams	2	18	
Sand, coarse, yellow, with small gravel and trace of silt	4	22	

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

Well 37/2W-7H2--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, medium to coarse, yellow, with trace of small gravel and silt	3	25	
Sand, coarse, silty, yellow, with some gravel	5	30	
Sand, coarse, gray, with large rock fragments and gravel	2	32	
Sand, fine to medium, gray	12	44	

Well 37/2W-7P1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay	25	25	
Gravel and sand	11	36	
Sand and clay; mixed	29	65	
Sand	33	98	
Sand, coarse, brown	6	104	

Well 37/2W-8B1

Type of record: Driller's log. Altitude: 842 feet.

Quaternary system:			
Recent and Pleistocene series:			
Loam, medium, sandy, brown	2	2	
Sand, fine, clayey, brown	4	6	
Sand, fine to medium, silty, yellow	9	15	
Sand, fine, clayey, brown	3	18	
Silt, stiff, yellow and brown, with some small peices of brown shale	2	20	
Sand, fine to coarse, clayey, brown, and fine gravel	9	29	
Clay, medium, sandy, brown, with some brown shale	3	32	
Sand, fine to medium, silty, red	2	34	
Sand, fine, yellow	3	37	

Well 37/2W-8B4

Type of record: Driller's log. Altitude: 837 feet.

Quaternary system:			
Recent and Pleistocene series:			
Loam, black	1	1	
Sand, fine, silty, brown	31	32	

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

Well 37/2W-8B4--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, fine to medium, clayey, brown, with some shale and broken rock	2	34	
Sand, fine, silty, yellow	4	38	
Sand, fine, silty, yellow, with some shale and fine gravel	10	48	
Sand, fine to coarse, clayey, brown, with some shale and fine gravel	3	51	
Sand, fine to medium, silty, brown, with some fine gravel	9	60	

Well 37/2W-10L1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown, and gravel	36	36	
Sand and coarse gravel	24	60	
Sand, brown, and gravel	5	65	

Well 37/2W-11E2

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

Quaternary system:			
Recent and Pleistocene series:			
Dirt and brown sand	18	18	
Clay and sand	18	36	
Gravel and sand	18	54	
Sand, brown	13	67	

Well 37/2W-11F2

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

Quaternary system:			
Recent and Pleistocene series:			
Dirt, black, and sand	18	18	
Sand, brown, clay, and gravel	24	42	
Sand, fine, brown	12	54	
Sand, brown, and gravel	6	60	

Well 37/2W-11J1

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil	1	1	
Clay, sandy	18	19	

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

Well 37/2W-11J1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, brown	9	28	
Sand, medium, gray	46	74	
Sand, fine	9	83	Blue clay at 83 feet.

Well 37/2W-11J2

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

Material	Thickness (feet)	Depth (feet)
Quaternary system:		
Recent and Pleistocene series:		
Top soil	1	1
Clay, sandy	5	6
Sand, brown	17	23
Sand, medium, gray	44	67
Sand, fine	9	76
Sand, very fine	2	78

Well 37/2W-11M1

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

Material	Thickness (feet)	Depth (feet)
Quaternary system:		
Recent and Pleistocene series:		
Dirt, black, and sand	18	18
Sand, brown, and gravel	28	46
Sand, coarse, brown	7	53

Well 37/2W-11N1

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

Material	Thickness (feet)	Depth (feet)
Quaternary system:		
Recent and Pleistocene series:		
Sand, brown	18	18
Sand, brown, and gravel	72	90
Gravel, brown	5	95

Well 37/2W-12M1

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

Material	Thickness (feet)	Depth (feet)
Quaternary system:		
Recent and Pleistocene series:		
Dirt, black	3	3
Clay, sand, and gravel	15	18
Sand, brown	18	36
Gravel, large	4	40
Gravel and brown sand	14	54
Sand, coarse	4	58
Gravel	2	60

Well 37/2W-15D1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Dirt and sand	10	10	
Sand and clay; mixed	20	30	
Sand, brown, and gravel	20	50	
Sand, brown	8	58	

Well 37/2W-19H1

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

Quaternary system:			
Recent and Pleistocene series:			
Drift	240	240	
Mississippian system:			
Lower Mississippian series:			
Shale, green	38	278	
Devonian system:			
Upper Devonian series?:			
Shale, light-brown	77	355	
Shale, dark-brown	60	415	
Shale, gray	20	435	
Shale, dark-brown	4	439	
Middle Devonian series:			
Lime	11	450	

Well 37/2W-20L1

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

Quaternary system:			
Recent and Pleistocene series:			
Drift	231	231	
Mississippian system:			
Lower Mississippian series:			
Shale, green	74	305	
Devonian system:			
Upper Devonian series?:			
Shale, light-brown	47	352	
Shale, dark-brown	38	390	
Shale, gray	73	463	
Shale, brown	5	468	
Shale	18	486	
Middle Devonian series:			
Lime	17	503	

Well 37/2W-20P1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Dirt, black, and brown sand-----	18	18	
Sand, brown, and gravel---------	32	50	
Sand, brown----------	7	57	

Well 37/2W-20R1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand----------	55	55	
Sand, fine----------	40	95	
Sand, medium, and gravel; mixed----------	10	105	
Sand, light----------	7	112	
Sand and gravel----------	7	119	
Sand, coarse, and gravel--------	5	124	
Sand----------	1	125	Heaving.

Well 37/2W-26D2

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown, and clay----------	18	18	
Sand, brown, and gravel---------	16	34	
Sand, white, and gravel---------	8	42	

Well 37/2W-29C1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown----------	18	18	
Gravel, brown----------	6	24	
Sand, white, and clay----------	4	28	
Gravel, blue, and sand----------	5	33	

Well 37/2W-29E1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel----------	18	18	
Clay and gravel----------	22	40	
Sand----------	6	46	

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

Well 37/2W-29E2

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, brown, and gravel	18	18	
Gravel, brown	18	36	
Sand, white, and gravel	15	51	

Well 37/2W-29F1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown, and dirt	18	18	
Sand, brown, and clay	11	29	
Sand, white, and gravel	14	43	

Well 37/2W-30H1

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

Quaternary system:			
Recent and Pleistocene series:			
Dirt and sand	18	18	
Sand, brown	12	30	
Gravel and sand	6	36	
Sand, brown, and clay	8	44	
Sand, white	5	49	

Well 37/2W-30K1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand	15	15	
Clay and sand	21	36	
Sand and gravel	36	72	

Well 37/2W-30L1

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil	1	1	
Clay, sandy, with gravel	11	12	
Gravel, sandy, with trace of clay	12	24	
Sand and gravel	16	40	
Gravel, sandy, with trace of gray clay	14	54	
Clay, sandy, with gravel	7	61	

Well 37/2W-30L1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand with little gravel	63	124	
Sand with trace of clay	20	144	
Sand with little gravel	20	164	
Sand and gravel; with clay	10	174	

Well 37/2W-30L2

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil	1	1	
Clay, sandy	6	7	
Clay and gravel	21	28	
Clay and gravel; stratified	31	59	
Clay, blue	12	71	
Clay and gravel; stratified	14	85	
Sand, medium, clean	50	135	
Sand, fine, muddy	15	150	

Well 37/2W-30L3

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil	2	2	
Clay, sandy	14	16	
Clay and gravel	6	22	
Sand and gravel	20	42	
Sand, medium	8	50	
Clay, sandy	15	65	
Sand and little gravel	10	75	
Sand, medium	38	113	
Clay, sandy	1	114	

Well 37/2W-33Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Dirt and brown sand	18	18	
Sand, brown, and gravel	69	87	
Sand, white, and gravel	8	95	

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

Well 37/3W-2N1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, brown	70	70	
Clay, blue	90	160	
Sand, white	10	170	

Well 37/3W-3K3

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, brown	10	10	
Clay, blue	16	26	
Sand, white	7	33	

Well 37/3W-5H1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown, and gravel	10	10	
Clay, blue	40	50	
Sand	6	56	

Well 37/3W-6C3

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

Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel; brown	5	5	
Sand, loose, brown	12	17	
Clay, soft, gray	15	32	
Sand, gray	6	38	
Sand, gray, with medium gravel	11	49	
Sand, dense, gray	6	55	

Well 37/3W-6E1

Type of record: Driller's log. Altitude: 642 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil, black	2	2	
Sand, medium, brown	6	8	
Sand, medium, gray-brown	4	12	
Clay, silty, gray, with sand	18	30	
Sand, fine, gray	4	34	
Clay, gray	9	43	
Sand, gray, and small gravel	15	58	
Sand, brown, with gravel	4	62	

Well 37/3W-6E3

Type of record: Driller's log. Altitude: 643 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil, black, and brown sand-	2	2	
Sand, medium, brown----------	6	8	
Sand, gray, with some gravel----	4	12	
Silt, sandy, brown----------	4	16	
Clay, silty, gray----------	17	33	
Sand and gravel; gray and brown-	5	38	
Clay, gray----------	10	48	
Clay, silty, gray----------	8	56	

Well 37/3W-6E4

Type of record: Driller's log. Altitude: 643 feet.

Quaternary system:			
Recent and Pleistocene series:			
Loam, sandy, black----------	1	1	
Sand, brown----------	8	9	
Sand and gravel; mixed----------	3	12	
Sand, gray----------	7	19	
Clay, silty, gray----------	4	23	
Clay, soft, silty----------	6	29	
Clay, soft, gray----------	6	35	
Sand, fine, and silt----------	3	38	
Hardpan----------	1	39	
Clay, gray----------	7	46	
Gravel----------	8	54	

Well 37/3W-9R2

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown----------	54	54	
Sand, brown, and gravel----------	6	60	
Sand, brown, and clay----------	23	83	
Sand, white----------	7	90	

Well 37/3W-10H1

Type of record: Driller's log. Altitude: 855 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel----------	50	50	
Sand, brown----------	40	90	
Sand, coarse, brown----------	12	102	

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

Well 37/3W-11J1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, silty	2	2	
Sand, clayey	4	6	
Silt	8	14	
Sand, silty	24	38	

Well 37/3W-11J4

Type of record: Driller's log. Altitude: 794 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil, sandy, yellow	1	1	
Sand, fine, silty, yellow	2	3	
Sand, fine, silty, yellow, with few layers of silt	25	28	
Sand, fine to coarse, silty, gray	5	33	
Sand, fine, silty, gray	5	38	
Silt, gray	3	41	
Silt, medium, gray	7	48	
Clay, very silty, gray	3	51	
Sand, fine, silty, gray	1	52	
Clay, silty, gray	2	54	
Silt, sandy, gray, with trace of clay	21	75	
Sand, fine to medium, silty, gray	5	80	

Well 37/3W-11J6

Type of record: Driller's log. Altitude: 793 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand, fine, silty, yellow, with trace of gravel	31	31	
Sand, fine, silty, gray, with trace of gravel	6	37	
Sand, fine, silty, gray	13	50	

Well 37/3W-11J8

Type of record: Driller's log. Altitude: 778 feet.

Quaternary system:			
Recent and Pleistocene series:			
Peat	4	4	
Sand, silty	16	20	
Silt	9	29	
Sand, medium	6	35	

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

Well 37/3W-11K1

Type of record: Driller's log. Altitude: 858 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay and silt	2	2	
Sand and gravel; clayey	8	10	
Sand, with trace of gravel	14	24	
Silt, stiff, clayey, yellow	5	29	
Sand, fine, yellow	4	33	
Sand, silty	18	51	
Silt, hard, gray	4	55	

Well 37/3W-11K2

Type of record: Driller's log. Altitude: 841 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, stiff, silty, sandy, yellow	6	6	
Sand, fine to medium, clayey	2	8	
Silt, medium, clayey, sandy, brown	5	13	
Sand, fine to medium, clayey, yellow, and fine gravel	22	35	

Well 37/3W-11N1

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil; sandy clay	1	1	
Clay, yellow	25	26	
Sand, muddy, yellow	59	85	
Clay, sandy, gravel, and brown shale	40	125	
Sand, with gravel-size brown shale fragments	35	160	
Silt, gray	4	164	
Sand, fine	22	186	

Well 37/3W-11P1

Type of record: Driller's log. Altitude: 848 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, stiff, silty, sandy, yellow	6	6	
Silt, soft, sandy, yellow	2	8	
Clay, medium, silty, sandy, yellow	3	11	

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

Well 37/3W-11P1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Silt, very stiff, clayey, sandy, brown, with trace of fine gravel	2	13	
Sand, fine, yellow	3	16	
Sand, fine to medium, clayey, silty, brown	8	24	
Sand, fine, silty, yellow	18	42	
Sand, fine to medium, clayey, yellow	8	50	

Well 37/3W-12H1

Type of record: Driller's log. Altitude: 848 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, medium, sandy, brown	2	2	
Sand, fine to coarse, clayey, brown	4	6	
Sand, medium, silty, brown, with trace of gravel	2	8	
Sand, fine, silty, yellow	8	16	
Sand, fine, silty, yellow	10	26	

Well 37/3W-12H2

Type of record: Driller's log. Altitude: 836 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil, sandy, yellow	1	1	
Sand, medium, silty, yellow	4	5	
Clay, silty, yellow	3	8	
Sand, fine to medium, silty, yellow	2	10	
Silt, sandy, yellow	2	12	
Sand, fine to medium, silty, yellow	13	25	
Sand, fine to coarse, clayey, brown	1	26	
Sand, fine to medium, silty, yellow, with trace of gravel	24	50	

Well 37/3W-12H6

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

Quaternary system:			
Recent and Pleistocene series:			
Silt, sandy, brown	2	2	
Silt, sandy, yellow	3	5	

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

Well 37/3W-12H6--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, fine, silty, yellow-------	13	18	
Sand, fine, silty, brown and red, with trace of wood-------	2	20	
Sand, fine to coarse, clayey, brown, and fine gravel--------	2	22	
Sand, fine to coarse, silty, brown, with trace of fine to coarse gravel----------	13	35	

Well 37/3W-12M3

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil, sandy, yellow---------	1	1	
Silt, medium, sandy, brown------	3	4	
Sand, fine, silty, yellow-------	7	11	
Sand, fine to medium, silty, yellow----------	32	43	
Sand, fine, silty, gray---------	7	50	

Well 37/3W-13L1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay and sand----------	18	18	
Sand, brown----------	18	36	
Sand, brown, and gravel---------	18	54	
Sand, brown, and clay----------	16	70	
Gravel, brown, and sand---------	4	74	

Well 37/3W-14D1

Type of record: Driller's log. Altitude: 875 feet.

Quaternary system:			
Recent and Pleistocene series:			
Fill; stiff yellow clay---------	6	6	
Sand, fine to medium, silty, yellow----------	20	26	May be fill.
Silt, soft, gray----------	1	27	
Clay, medium, silty, gray-------	3	30	
Clay, very stiff, silty, gray---	12	42	
Clay, hard, silty, sandy, gray, with trace of gravel---------	3	45	

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

Well 37/3W-14D3

Type of record: Driller's log. Altitude: 871 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil, black	1	1	
Clay, stiff, silty, yellow	3	4	
Peat with thin layers of silt	7	11	
Silt, soft, gray	3	14	
Clay, stiff, silty, gray	1	15	
Clay, very stiff, silty, gray	3	18	
Sand, medium, clayey, gray	2	20	
Clay, very stiff, silty, gray	8	28	
Sand, hard, clayey, gray, and fine gravel	5	33	
Silt, very stiff, clayey, gray	2	35	
Sand, fine, silty, yellow	7	42	

Well 37/3W-14J1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay and sand	18	18	
Sand and gravel	42	60	
Gravel, hard	18	78	
Gravel and brown sand	8	86	

Well 37/3W-15A1

Type of record: Driller's log. Altitude: 869 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil, black	1	1	
Peat, with trace of sand and silt	17	18	
Silt, soft, gray	2	20	
Clay, medium, silty, gray	2	22	
Clay, stiff, silty, gray	10	32	
Sand, fine to coarse, clayey, gray	4	36	
Sand, fine, silty, yellow	4	40	

Well 37/3W-15A2

Type of record: Driller's log. Altitude: 875 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Fill; yellow clay	6	6	
Fill; yellow silty fine clay	28	34	
Peat, medium, greenish, with organic silt	5	39	

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

Well 37/3W-15A2--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, stiff, silty, gray--------	4	43	
Clay, hard, silty, gravelly, gray----------	7	50	

Well 37/3W-15A4

Type of record: Driller's log. Altitude: 869 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil, black----------	1	1	
Peat, with trace of sand and silt----------	5	6	
Silt, soft, gray----------	3	9	
Clay, stiff, silty, gray--------	8	17	
Sand, fine to coarse, clayey, gray----------	2	19	
Clay, very stiff, silty, gray---	4	23	
Sand, fine to medium, clayey, gray----------	4	27	
Sand, fine, silty, yellow-------	13	40	

Well 37/3W-15A5

Type of record: Driller's log. Altitude: 875 feet.

Quaternary system:			
Recent and Pleistocene series:			
Fill; yellow clay----------	6	6	
Sand, fine, silty, yellow-------	17	23	
Silt, soft, sandy, gray--------	2	25	
Clay, stiff, silty, gray--------	3	28	
Clay, hard, silty, gray---------	16	44	
Sand, medium, clayey, gray------	2	46	
Sand, fine, silty, yellow-------	4	50	

Well 37/3W-15F6

Type of record: Driller's log. Altitude: 854 feet.

Quaternary system:			
Recent and Pleistocene series:			
Loam, sandy, brown----------	1	1	
Clay, stiff, silty, yellow------	5	6	
Clay, very stiff, silty, yellow-	5	11	
Sand, fine to medium, clayey, yellow----------	2	13	
Sand, fine, yellow----------	3	16	
Clay, hard, sandy, yellow-------	2	18	
Sand, fine, clayey, brown-------	2	20	
Sand, fine, yellow----------	6	26	

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

Well 37/3W-15F6--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, fine to medium, clayey, brown	2	28	
Sand, fine, yellow	20	48	
Sand, fine, clayey, yellow	6	54	
Sand, fine, yellow	6	60	

Well 37/3W-15F8

Type of record: Driller's log. Altitude: 859 feet.

Quaternary system:			
Recent and Pleistocene series:			
Loam, sandy, brown	1	1	
Clay, stiff, silty, yellow	5	6	
Clay, very stiff, silty, yellow	4	10	
Sand, fine to medium, clayey, brown	2	12	
Silt, medium, sandy, yellow	4	16	
Sand, fine to medium, clayey, brown, with fine gravel	2	18	
Sand, fine, silty, brown, with some fine gravel	3	21	
Sand, fine, yellow	22	43	
Silt, hard, yellow	3	46	
Sand, fine to coarse, clayey, brown	5	51	
Sand, fine, yellow	19	70	
Sand, fine, clayey, brown	1	71	

Well 37/3W-15H1

Type of record: Driller's log. Altitude: 865 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand and clay	36	36	
Gravel	18	54	
Sand, brown	58	112	
Sand, white, and silt	45	157	
Sand, fine, sharp, white	7	164	

Well 37/3W-16D1

Type of record: Driller's log. Altitude: 920 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand, fine	6	6	
Clay, red, gravel, and sand; mixed layers	124	130	

Well 37/3W-16D1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, gray-blue	5	135	
Sand, very fine, gray, and clay	43	178	
Clay, solid	4	182	
Sand, fine	8	190	

Well 37/3W-16E1

Type of record: Driller's log. Altitude: 920 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay	32	32	
Sand, brown, and gravel	102	134	
Gravel, white	6	140	
Sand, white	20	160	

Well 37/3W-16F1

Type of record: Driller's log. Altitude: 920 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay	35	35	
Sand, white	45	80	
Clay, white, and sand; mixed	20	100	
Sand, white, and gravel	30	130	
Sand, coarse, white	24	154	

Well 37/3W-16K2

Type of record: Driller's log. Altitude: 910 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, blue	30	30	
Gravel	107	137	
Hardpan	3	140	
Sand	5	145	Blue clay at 145 feet.

Well 37/3W-16K6

Type of record: Driller's log. Altitude: 890 feet.

Quaternary system:			
Recent and Pleistocene series:			
Loam, sandy, brown, and yellow sandy silty medium clay	10	10	
Clay, hard, silty, yellow	2	12	
Clay, stiff, silty, sandy, yellow	4	16	
Clay, very stiff, silty, gray	10	26	

Well 37/3W-16K6--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, fine to medium, clayey, brown	2	28	
Clay, very stiff, silty, gray	6	34	
Sand, fine, silty, yellow	23	57	
Sand, fine, clayey, brown	6	63	
Sand, fine, silty, yellow	2	65	

Well 37/3W-16K7

Type of record: Driller's log. Altitude: 884 feet.

Quaternary system:			
Recent and Pleistocene series:			
Loam, sandy, black	1	1	
Silt, medium, clayey, sandy, brown	2	3	
Clay, stiff, silty, yellow	3	6	
Clay, hard, silty, yellow	5	11	
Silt, hard, sandy, yellow	3	14	
Sand, fine to coarse, clayey, yellow	2	16	
Clay, hard, silty, yellow	2	18	
Clay, hard, silty, gray	6	24	
Clay, very hard, sandy, yellow	2	26	
Silt, hard, sandy, yellow	3	29	
Sand, fine, clayey, yellow	3	32	
Clay, hard, silty, sandy, gray	5	37	
Sand, fine, silty, yellow	15	52	

Well 37/3W-16K10

Type of record: Driller's log. Altitude: 883 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand, fine, silty, brown	1	1	
Clay, stiff, silty, sandy, yellow	10	11	
Clay, very stiff, silty, yellow, with trace of sand and shale	5	16	
Clay, hard, silty, gray, with trace of sand seams	3	19	
Clay, hard, silty, sandy, yellow, with some coarse gravel and broken rock	2	21	
Clay, hard, silty, yellow	2	23	
Clay, hard, silty, gray, with trace of gravel	8	31	
Sand, fine, silty, yellow, with trace of clay and fine gravel	5	36	

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

Well 37/3W-16K10--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, fine to coarse, clayey, gray, with fine gravel	11	47	
Clay, very stiff, silty, gray	2	49	
Clay, very hard, silty, gray, with trace of thin seams of sand and fine gravel	1	50	

Well 37/3W-16L1

Type of record: Driller's log. Altitude: 920 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay	36	36	
Sand, fine	36	72	
Sand and gravel	36	108	
Clay and gravel	32	140	
Sand, white, and gravel	10	150	

Well 37/3W-18G1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel	18	18	
Clay, brown	12	30	
Clay and silt	40	70	
Sand, fine, white	12	82	

Well 37/3W-19J2

Type of record: Driller's log. Altitude: 910 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay	18	18	
Boulders	1	19	
Clay	21	40	
Sand	1	41	
Clay	21	62	
Sand and gravel	78	140	
Sand	21	161	
Sand	32	193	Suitable for 20-slot screen.
Sand	8	201	Suitable for 10-slot screen.
Clay	20	221	
Sand, fine	31	252	Suitable for 6-slot screen.
Sand and gravel	12	264	Suitable for 25-slot screen.

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

Well 37/3W-19J3

Type of record: Driller's log. Altitude: 910 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand?, yellow	20	20	
Clay and boulders	20	40	
Clay and sand	20	60	
Sand and shale	45	105	
Sand and clay	122	227	
Clay, blue	5	232	
Sand	8	240	
Sand	27	267	Suitable for 8-slot screen.
Sand, gray, clean	8	272	Suitable for 12-slot screen.

Well 37/3W-19J4

Type of record: Driller's log. Altitude: 910 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay	45	45	
Gravel	5	50	
Shale, soft, brown	50	100	Clay?.
Clay and sand	40	140	
Sand	15	155	
Sand and gravel	5	160	
Sand, clean	17	177	

Well 37/3W-19J5

Type of record: Driller's log. Altitude: 905 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil	1	1	
Clay, yellow	23	24	
Sand, fine, muddy	4	28	
Gravel, sandy, muddy	14	42	
Sand, muddy	12	54	
Sand, slate, and shale; muddy	115	169	
Sand, fine	11	180	
Sand, fine to medium	10	190	
Sand, fine to medium, shale, and slate	5	195	
Sand, fine to medium	6	201	

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

Well 37/3W-20H1

Type of record: Driller's log. Altitude: 861 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil	2	2	
Silt, sandy	6	8	
Sand, fine	2	10	
Sand, silty	2	12	
Sand, medium to coarse, yellow, with some pebbles	18	30	
Sand, well-graded	6	36	
Sand, fine, clean	4	40	

Well 37/3W-20H2

Type of record: Driller's log. Altitude: 858 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Silt, brown	2	2	
Sand, brown, and silt	1	3	
Silt, brown, with trace of sand	1	4	
Silt, sandy	4	8	
Sand, brown, with trace of silt and some pebbles	17	25	
Sand, brown, and gravel	6	31	
Gravel	1	32	
Sand, brown, with gravel	9	41	

Well 37/3W-20H3

Type of record: Driller's log. Altitude: 861 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, gravel, and brown silt	2	2	
Sand, silty, with trace of clay	2	4	
Clay, silty, sandy, brown	1	5	
Clay, fine, sandy	4	9	
Sand, fine to medium, silty	2	11	
Sand, brown, stratified, with trace of silt	7	18	
Sand, medium to coarse, with silty-clay seam	5	23	
Sand, medium to coarse, with trace of silt and some pebbles	21	44	

Well 37/3W-20H4

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Silt, sandy, brown	2	2	
Sand, medium, with trace of silt	1	3	
Sand, silty	5	8	
Sand, medium, with some pebbles	23	31	
Silt, brown, with trace of sand	5	36	
Sand, brown	4	40	

Well 37/3W-20H5

Type of record: Driller's log. Altitude: 859 feet.

Quaternary system:			
Recent and Pleistocene series:			
Silt, sandy, and gravel	2	2	
Sand, brown, with trace of silt	2	4	
Silt, with trace of brown sand	2	6	
Sand, brown, with trace of silt	2	8	
Silt, brown	6	14	
Sand, medium to coarse, brown, with some pebbles	12	26	

Well 37/3W-20H6

Type of record: Driller's log. Altitude: 858 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, silt, and pebbles	2	2	
Silt, sandy	1	3	
Silt, yellow, with trace of clay	4	7	
Sand, fine to medium, yellow	9	16	
Gravel and sand	5	21	
Sand, yellow, with trace of silt	6	27	
Sand, clayey, gravelly	7	34	
Gravel, silty, and sand	6	40	

Well 37/3W-21J2

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

Quaternary system:			
Recent and Pleistocene series:			
Dirt, black, and sand	18	18	
Sand and clay	16	34	
Gravel and sand	24	58	

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

Well 37/3W-21J2--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Gravel	10	68	
Sand, brown	5	73	

Well 37/3W-21R1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and clay	30	30	
Gravel and sand	20	50	
Clay, gravel, and sand	20	70	
Sand, white	6	76	

Well 37/3W-22N3

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and clay	18	18	
Sand and gravel	36	54	
Clay and gravel	18	72	
Sand, white, and gravel	6	78	

Well 37/3W-24C1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Dirt and sand	18	18	
Sand, brown	32	40	
Gravel	20	60	
Sand and clay	10	70	
Sand, white, and gravel	7	77	

Well 37/3W-24N1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil, black	2	2	
Clay, red, with pieces of shale	31	33	
Hardpan, red	4	37	
Gravel	9	46	Blue clay at 46 feet.

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

Well 37/3W-24P1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Dirt, black, sand, and clay-----	18	18	
Gravel, brown sand, and clay----	32	50	
Sand, white, and gravel---------	5	55	

Well 37/3W-26J2

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown, and clay----------	18	18	
Gravel, brown, and clay--------	18	36	
Sand, brown, and gravel--------	4	40	
Silt and clay-----------------	25	65	
Sand, white, and gravel--------	5	70	

Well 37/3W-27F1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, fine, wind-blown---------	9	9	
Clay, blue--------------------	13	22	
Hardpan-----------------------	11	33	
Sand, coarse------------------	12	45	Blue clay at 45 feet.

Well 37/3W-27G1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, white-------------------	36	36	
Sand, white, and clay---------	18	54	
Clay, blue--------------------	24	78	
Sand, white, and gravel-------	8	86	

Well 37/3W-27G2

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown-------------------	18	18	
Sand, brown, and gravel-------	12	30	
Clay, blue, and sand----------	24	54	
Clay, blue--------------------	6	60	
Sand, fine, and silt----------	12	72	
Clay and sand-----------------	16	88	
Sand and gravel---------------	6	94	

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

Well 37/3W-27G2--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Silt	14	108	
Gravel	9	117	

Well 37/3W-27J1

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil	1	1	
Sand, medium, brown	2	3	
Clay, light-gray	1	4	
Sand, medium, brown	16	20	
Sand, gray, and gravel	75	95	
Clay, blue	73	168	
Sand, gravel, and clay	12	180	
Clay, blue	65	245	
Devonian system:			
Upper Devonian series:			
Shale, hard	169	414	
Devonian and Silurian system; undifferentiated:			
Sandstone mixed with little limestone	29	443	
Limestone	149	592	
Shale	8	600	
Shale and limestone	10	610	
Limestone, hard	130	740	
Limestone and shale	15	755	

Well 37/3W-28R1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, red	35	35	
Hardpan	3	38	
Sand, coarse, white	17	55	Blue clay at 55 feet.

Well 37/3W-28R2

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown, clay, and gravel	36	36	
Sand, white, and clay	34	70	
Sand, white, and gravel	5	75	

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

Well 37/3W-28R4

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand	5	5	
Clay, red, and gravel	62	67	
Sand	5	72	

Well 37/3W-29E2

Type of record: Driller's log. Altitude: 869 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil	1	1	
Sand, with trace of silt	4	5	
Silt, with trace of sand	2	7	
Sand, with trace of silt	11	18	
Silt, soft	10	28	
Sand, clayey, silty	6	34	
Sand, medium to coarse, clean	16	50	

Well 37/3W-29E5

Type of record: Driller's log. Altitude: 870 feet.

Quaternary system:			
Recent and Pleistocene series:			
Silt, sandy	2	2	
Sand, fine	1	3	
Silt, sandy, with pebbles	5	8	
Sand, with trace of silt and pebbles	5	13	
Sand, fine to medium, with silt seams	37	50	

Well 37/3W-29F1

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

Quaternary system:			
Recent and Pleistocene series:			
Dirt, black, and sand	15	15	
Sand, and brown clay	25	40	
Gravel and sand	14	54	
Sand, fine, and silt	16	70	
Clay and silt	50	120	
Sand, coarse, white	8	128	

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

Well 37/3W-29L1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Dirt and clay	18	18	
Gravel and sand	18	36	
Sand, brown	14	50	
Gravel, sand, and clay	20	70	
Sand, white	8	78	
Sand and clay	15	93	
Sand, coarse, white	6	99	

Well 37/3W-30H1

Type of record: Driller's log. Altitude: 847 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil	2	2	
Silt	3	5	
Sand, silty, with pebbles	23	28	
Sand, clean	14	42	

Well 37/3W-31D1

Type of record: Driller's log. Altitude: 865 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil; black and brown silt with trace of sand and gravel	2	2	
Record missing	2	4	
Silt, brown, with some sand	1	5	
Sand, fine to coarse, and gravel; with trace of silt	10	15	
Sand and gravel; with some dark-brown silt	3	18	
Silt	1	19	
Sand and gravel; dark-brown	3	22	
Sand, medium to coarse, stratified	3	25	
Sand, fine to coarse, brown and gray	1	26	
Gravel, silty, sandy, brown	2	28	
Sand, medium to coarse, brown to gray, stratified, with some shale pebbles	2	30	
Hardpan, very dense	1	31	
Sand, medium to coarse, gray and brown, and silt	1	32	
Sand, coarse, and gravel	4	36	
Sand, fine to coarse, with silt seams	4	40	

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

Well 37/3W-31D1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, coarse, brown, with some gravel and shale pebbles------	6	46	

Well 37/3W-31D4

Type of record: Driller's log. Altitude: 864 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand, fine to coarse, dirty, brown, with some gravel and trace of silt and clay--------	4	4	
Sand, medium, silty, brown, and gravel; stratified--------	2	6	
Sand, fine to coarse, brown, and gravel; with trace of silt----------	20	26	
Hardpan; black very dense silt and gravel; with some sand----	4	30	
Sand, fine to coarse, brown to gray, with trace of gravel and some silt seams----	16	46	
Sand, fine to coarse, tan to brown, with trace of silt-----	6	52	
Sand, brown, with some shale pebbles and silt seams--------	8	60	

Well 37/3W-31D5

Type of record: Driller's log. Altitude: 864 feet.

Quaternary system:			
Recent and Pleistocene series:			
Silt, brown, with trace of gravel and clay----------	2	2	
Sand, silty, brown, with some gravel----------	13	15	
Sand, coarse, and gravel; brown and gray, with trace of silt----------	1	16	
Record missing----------	4	20	
Gravel, coarse, with coarse sand and silt----------	1	21	
Clay and sand; yellow to brown, with some silt and gravel----------	9	30	
Sand, coarse, brown, with trace of silt and gravel------	22	52	

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

Well 37/3W-31D5--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, fine to coarse, brown, with some clay, silt, and shale pebbles	6	58	
Silt and gravel; brown to black, with trace of sand	2	60	

Well 37/3W-31D7

Type of record: Driller's log. Altitude: 862 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil	2	2	
Sand, silty	21	23	
Sand	5	28	
Silt	2	30	

Well 37/3W-31L1

Type of record: Driller's log from memory. Altitude: 855 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow	11	11	
Clay, blue	70	81	
Sand, medium	13	94	Blue clay at 94 feet.

Well 37/3W-33L1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, sandy, red	18	18	
Sand, medium, reddish-gray, with little gravel	14	32	
Sand, muddy, red, and boulders	3	35	
Sand, medium, brown	3	38	
Sand, medium, gray, with some gravel	7	45	
Sand, coarse, dark-gray, and broken shale	5	50	
Sand, medium, and little gravel	5	55	
Sand, coarse, gray, and broken shale	5	60	
Sand, coarse, gray	6	66	
Sand, coarse, gray, and broken shale	6	72	
Sand and fine shale	4	76	

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

Well 37/3W-34E2

Type of record: Driller's log. Altitude: 840 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and clay	31	31	
Gravel	6	37	
Clay and gravel; mixed	13	50	
Gravel	4	54	
Sand, fine	4	58	
Sand, fine, brown	6	64	
Sand, fine, white	3	67	
Sand, coarse, white	5	72	

Well 37/3W-34P1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown	18	18	
Sand, brown, and silt	32	50	
Sand, white, and clay	29	79	
Sand, white, and gravel	5	84	

Well 37/3W-35G1

Type of record: Driller's log. Altitude: 807 feet.

Quaternary system:			
Recent and Pleistocene series:			
Fill	2	2	
Sand, muddy	15	17	
Marl	21	38	
Sand, muddy, and shaly gravel	13	51	

Well 37/3W-35L2

Type of record: Driller's log. Altitude: 807 feet.

Quaternary system:			
Recent and Pleistocene series:			
Gravel, sandy	5	5	
Clay, soft, and sand	29	34	
Sand, coarse	2	36	
Sand, muddy	21	57	
Clay, medium	13	70	
Sand, muddy, and gravel	18	88	
Clay and gravel	4	92	

Well 37/3W-35L3

Type of record: Driller's log. Altitude: 807 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil	2	2	
Sand, medium, red	18	20	
Sand, fine, very muddy, gray	15	35	
Sand, medium, clean, gray	9	44	
Sand, fine, muddy, with shale	3	47	
Sand, very fine, gray	7	54	
Sand, fine, gray	6	60	
Sand, fine, gray, and silt	13	73	
Sand, medium, gray, dirty	3	76	
Sand, coarse, and gravel	10	86	
Sand, fine, dirty	5	91	
Sand, medium, and gravel	17	108	
Gravel, coarse	3	111	
Sand, white, clean	3	114	
Sand, medium, gray	10	124	

Well 37/3W-35L4

Type of record: Driller's log. Altitude: 807 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, red	15	15	
Muck and dirty sand	7	22	
Sand, dirty, very mucky	28	50	
Sand, medium, dirty, muddy	40	90	
Gravel, coarse, and sand; muddy	10	100	
Sand, coarse, gray	14	114	
Sand, fine, clean, gray	6	120	
Sand, coarse, gray	5	125	
Gravel, coarse, gray, and sand	7	132	

Well 37/3W-36C1

Type of record: Driller's log. Altitude: 807 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, gravelly, yellow	27	27	
Sand, medium, gray	8	35	
Sand, medium, and coarse gravel	7	42	
Gravel, coarse, and sand	18	60	
Sand, medium, and gravel	15	75	
Sand, medium	15	90	
Sand, medium, gray	10	100	
Sand, fine, gray	34	134	
Sand, fine, with strips of soft clay	4	138	

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

Well 37/4W-1J1

Type of record: Driller's log. Altitude: 631 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, brown	7	7	
Sand, clayey, gray	11	18	
Clay, sandy, gray	14	32	

Well 37/4W-1J3

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown	15	15	
Sand, soft, silty, gray	5	20	
Sand, fine to medium, brown	10	30	
Sand, soft, silty, gray	9	39	
Clay, gray, with some gravel	17	56	

Well 37/4W-1R1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, white	39	39	
Clay, blue	10	49	
Sand, white, and gravel	8	57	
Clay, hard	13	70	
Clay, blue	10	80	Coarse gravel at 80 feet.

Well 37/4W-2E2

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown	18	18	
Sand, brown, and clay	14	32	
Sand, brown, and gravel	8	40	

Well 37/4W-2F1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown, and clay	24	24	
Clay and gravel	6	30	
Sand, white	5	35	

Well 37/4W-2K1

Type of record: Driller's log. Altitude: 645 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand	20	20	
Clay, blue	22	42	
Sand	6	48	

Well 37/4W-2R1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand	10	10	
Clay, blue	35	45	
Sand	5	50	

Well 37/4W-3A1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand	22	22	
Clay	43	65	
Gravel	3	68	
Clay	56	124	
Sand	16	140	

Well 37/4W-3Q1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay	35	35	
Clay, sand, and silt	10	45	
Clay, blue	52	97	
Gravel and white sand	6	103	

Well 37/4W-4N1

Type of record: Driller's log. Altitude: 643 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand	4	4	
Clay, blue	85	89	
Sand	42	131	

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

Well 37/4W-5H1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Fill	2	2	
Sand	14	16	
Gravel	6	22	Suitable for 60-slot screen.
Clay, blue	50	72	
Hardpan	33	105	
Sand	11	116	Suitable for 10-slot screen.
Sand	24	140	Suitable for 12-slot screen.
Sand, fine, dirty	23	163	

Well 37/4W-5P1

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

Quaternary system:			
Recent and Pleistocene series:			
Fill; sand	3	3	
Muck	7	10	
Clay, very sticky	102	112	
Sand, muddy	4	116	
Clay	9	125	
Sand	1	126	
Clay	27	153	
Devonian system:			
Upper Devonian series:			
Shale	2	155	

Well 37/4W-7A1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand	15	15	
Clay	79	94	
Sand, coarse	4	98	Silt and sand at 98 feet.

Well 37/4W-7B1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand	5	5	
Clay	5	10	
Gravel	2	12	

Well 37/4W-7B1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay	45	57	
Sand	10	67	

Well 37/4W-7H1

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

Quaternary system:			
Recent and Pleistocene series:			
Fill	3	3	
Sand	2	5	
Clay	80	85	
Clay and sand	5	90	
Sand	2	92	
Hardpan	8	100	
Clay	60	160	
Clay and stone	14	174	
Hardpan	6	180	
Devonian system:			
Upper Devonian series:			
Shale, brown	5	185	

Well 37/4W-9D1

Type of record: Driller's log. Altitude: 643 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, hard, brown	20	20	
Clay, blue, and broken stones	10	30	
Clay, blue, sand, gravel, and hardpan	44	74	
Sand, fine, gray	4	78	Suitable for 60-gauze screen.
Sand, fine, gray, with clay balls	6	84	
Sand, fine to coarse, gray	13	97	
Sand, coarse, gray	4	101	
Sand, coarse, gray	19	120	Suitable for 60-gauze screen.

Well 37/4W-11F6

Type of record: Driller's log. Altitude: 617 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, sandy	5	5	
Sand and gravel; gray	9	14	
Sand, medium to coarse, with gravel	5	19	

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

Well 37/4W-11F6--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, hard, gray, and gravel	13	32	

Well 37/4W-11G1

Type of record: Driller's log. Altitude: 619 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand, fine, brown	2	2	
Sand, brown	7	9	
Clay, soft, gray	7	16	
Sand, gray	3	19	
Clay, gray	6	25	
Sand and gravel; dense	3	28	
Clay, gray	6	34	

Well 37/4W-11G3

Type of record: Driller's log. Altitude: 618 feet.

Quaternary system:			
Recent and Pleistocene series:			
Loam; sandy, brown	2	2	
Sand, brown	6	8	
Sand, gray	6	14	
Peat	5	19	
Clay, gray	13	32	

Well 37/4W-11K1

Type of record: Driller's log from memory. Altitude: 648 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand, fine, red	47	47	
Clay, hard, blue	4	51	
Gravel, marble-sized	2	53	

Well 37/4W-12D1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown, and clay	20	20	
Sand, fine, brown	6	26	
Sand, brown, and gravel	6	32	

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

Well 37/4W-12J1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, fine, brown	18	18	
Silt	16	34	
Sand, fine, white	6	40	
Sand, white, and gravel	7	47	

Well 37/4W-12Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand	12	12	
Sand, fine, and clay; mixed	33	45	
Sand	8	53	

Well 37/4W-13D2

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, brown	3	3	
Sand, brown, and clay	22	25	
Clay, blue, and sand	20	45	
Clay	5	50	
Clay and fine sand	11	61	
Clay	3	64	
Sand, white	5	69	

Well 37/4W-13G1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown	25	25	
Sand, gray, and clay	15	40	
Sand, white, and blue clay	30	70	
Sand, coarse, white, and gravel	9	79	

Well 37/4W-14K1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, red	12	12	
Clay, yellow	14	26	
Clay, blue, mixed with layers of fine gray sand	15	41	
Clay, solid, blue	7	48	

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

Well 37/4W-14K1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, coarse, light-gray	7	55	

Well 37/4W-14L1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, red	10	10	
Clay, fairly hard, blue	10	20	
Sand, fine, red	10	30	

Well 37/4W-14P1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand	20	20	
Clay, blue	13	33	
Clay and sand; mixed	12	45	
Sand	7	52	

Well 37/4W-15B3

Type of record: Driller's log. Altitude: 646 feet.

Quaternary system:			
Recent and Pleistocene series:			
Silt and sand; gray and brown	9	9	
Silt, brown	7	16	
Silt, gray	2	18	
Sand, fine, brown	5	23	
Sand, fine, brown and gray	10	33	
Sand and gravel; gray	5	38	
Clay, gray	9	47	
Silt, gray	5	52	

Well 37/4W-15B4

Type of record: Driller's log. Altitude: 645 feet.

Quaternary system:			
Recent and Pleistocene series:			
Silt and sand; mottled gray and brown	14	14	Interbedded.
Sand, fine to medium, gray and brown	17	31	
Sand, fine to medium, gray, with some clay layers	17	48	
Clay, gray	4	52	
Sand and gravel; gray	2	54	

Well 37/4W-15B5

Type of record: Driller's log. Altitude: 643 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil and sandy silt	4	4	
Clay, brown	4	8	
Sand, brown, with clay	5	13	
Clay, brown	5	18	
Sand, brown	16	34	
Sand, white	4	38	
Gravel and clay	2	40	
Clay, gray	13	53	

Well 37/4W-15B8

Type of record: Driller's log. Altitude: 627 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Loam, sandy, dark-brown	2	2	
Sand, gray, with some peat	10	12	
Sand, fine to medium, and gravel	6	18	
Clay, gray, with gravel	2	20	
Clay, gray	12	32	

Well 37/4W-15E2

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil, brown	1	1	
Clay, sandy	2	3	
Sand, gray	2	5	
Clay, gray	11	16	
Clay, gray, with sand layers	9	25	
Clay, gray, with gravel partings	11	36	
Sand and shale	14	50	

Well 37/4W-16M1

Type of record: Driller's log. Altitude: 659 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil	1	1	
Sand, silty, brown, with some clay	1	2	
Clay, silty, light-brown, and fine sand	3	5	
Clay, silty, light-brown, and sand	6	11	

Well 37/4W-16M1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, silty, light-brown, sand, and little gravel	4	15	
Sand, silty, brownish-gray, with some clay	6	21	
Clay, silty, gray, with little sand	9	30	

Well 37/4W-16R1

Type of record: Driller's log. Altitude: 656 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil	1	1	
Sand	6	7	
Clay	45	52	
Gravel	10	62	

Well 37/4W-17J2

Type of record: Driller's log. Altitude: 661 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand, silty, brown, and clay	1	1	
Clay, silty, brown, with little sand	4	5	
Sand, silty, mottled, gray and brown, with little clay	6	11	
Clay, silty, brown, with little sand	11	22	
Sand, silty, mottled, gray and brown, with little clay	3	25	
Clay, silty, gray, with little sand and trace of small gravel	6	31	
Clay, silty, brown, and sand	4	35	
Clay, silty, grayish-brown, and sand	5	40	
Clay, silty, brown, with trace of coarse sand	10	50	

Well 37/4W-17L2

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil	1	1	
Clay, silty, brown, and sand	4	5	

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

Well 37/4W-17L2--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, silty, light-brown, and sand	5	10	
Clay, silty, light-brown, with trace of coarse sand	6	16	
Clay, silty, gray, with little sand	5	21	
Sand, coarse, brownish-gray, with little silt	4	25	
Sand, fine, silty, gray, with little clay	11	36	
Clay, silty, gray, and sand	4	40	
Sand, silty, gray, and clay	5	45	
Clay, silty, gray, and coarse sand	5	50	

Well 37/4W-17M2

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

Quaternary system:			
Recent and Pleistocene series:			
Silt, black and brown, with organic matter	1	1	
Clay, silty, brown, and sand	5	6	
Clay, silty, gray, with little sand	4	10	
Silt, clayey, gray, with little sand	6	16	
Sand, coarse, brownish-gray, and silt	5	21	
Sand, silty, gray	4	25	
Sand, silty, gray, with trace of gravel	5	30	
Sand, silty, gray, with little clay	11	41	
Clay, silty, gray, with little sand	9	50	

Well 37/4W-18E1

Type of record: Driller's log. Altitude: 659 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil	1	1	
Sand, silty, mottled, with trace of clay	4	5	
Sand, silty, gray, with some clay	10	15	

Well 37/4W-18E1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, coarse, silty, gray, with trace of clay	5	20	
Sand, coarse, silty, gray, with some clay	10	30	

Well 37/4W-18M1

Type of record: Driller's log. Altitude: 659 feet.

Quaternary system:			
Recent and Pleistocene series:			
Fill	1	1	
Clay, silty, mottled, and sand	4	5	
Clay, silty, light-brown, with some sand	10	15	
Silt, clayey, gray, and sand	10	25	
Sand, silty, gray, with some clay	5	30	
Silt, clayey, gray, and sand	25	55	

Well 37/4W-18Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand	46	46	
Clay	4	50	
Sand	6	56	

Well 37/4W-18R1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand	20	20	
Clay	40	60	
Sand	5	65	
Clay	23	88	
Sand	4	92	

Well 37/4W-24A1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand	10	10	
Clay, red	15	25	
Sand, fine, and clay; mixed	165	190	
Sand	9	199	

Well 37/4W-26A1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, red	6	6	
Clay, red, and gravel	49	55	
Clay, blue	45	100	
Clay and very fine sand; mixed	20	120	
Sand, fine	6	126	

Well 37/4W-26C1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand	20	20	
Clay, blue	11	31	
Sand, fine, and blue clay mixed with shale	84	115	
Sand, coarse	9	124	

Well 37/4W-26H1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, red, and gravel	90	90	
Clay, blue, and fine sand; mixed	15	105	
Sand	3	108	

Well 37/4W-35J1

Type of record: Driller's log. Altitude: 843 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand, silty, brown, with trace of gravel	4	4	
Record missing	1	5	
Sand, fine to medium, silty, brown	11	16	
Sand, fine to coarse, clean, brown, with trace of gravel	10	26	
Sand, fine to coarse, with some gravel and trace of silt	10	36	
Sand, medium to coarse, clean, tan, with few shale pebbles	9	45	

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

Well 37/4W-35P1

Type of record: Driller's log. Altitude: 852 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Loam, dark-brown	2	2	
Silt, sandy, pebbly, dark-brown	3	5	
Sand, fine, silty, brown	5	10	
Silt, sandy, tan to gray	5	15	
Sand, fine to medium, silty, brown and tan	29	44	
Sand, fine to coarse, silty, brown, with gravel and peat	3	47	
Sand, fine to medium, silty, brown	7	54	
Sand, fine to coarse, silty, gravelly, brown	8	62	

Well 37/4W-35P2

Type of record: Driller's log. Altitude: 852 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Silt, brown, with trace of clay	2	2	
Silt, brown, and clay; some fine sand and pebbles	3	5	
Clay, silty, brown, and brown fine sand	1	6	
Sand, fine, brown, and silt; stratified	9	15	
Sand, fine to medium, brown, stratified, with trace of silt and gravel	43	58	
Sand, medium, silty, pebbly, brown	4	62	

Well 37/4W-35P3

Type of record: Driller's log. Altitude: 853 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, fine, silty, brown	2	2	
Silt, sandy, gravelly, brown	3	5	
Sand, fine to coarse, silty, gravelly, brown, stratified with brown sandy gravelly silt	3	8	
Silt, sandy, gravelly, brown, with trace of brown clay	7	15	
Sand, fine to coarse, silty, gravelly, brown, stratified	17	32	

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

Well 37/4W-35P3--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, fine to medium, gravelly, clean, brown	10	42	
Silt, sand, gravel, and peat	13	55	
Silt, sand, and gravel	1	56	
Sand, fine to coarse, silty, with few pebbles	6	62	

Well 37/4W-35P4

Type of record: Driller's log. Altitude: 855 feet.

Quaternary system:			
Recent and Pleistocene series:			
Silt, sandy, pebbly, brown	4	4	
Sand, fine to medium, silty, pebbly	11	15	
Silt, sandy, brown	13	28	
Sand, fine to medium, silty, brown	5	33	
Sand, fine to coarse, silty, brown, stratified, with shale	4	37	
Sand, fine, silty, brown, with some gravel	5	42	
Sand, fine, silty, with shale and peat	3	45	
Silt, fine, sandy, and peat; some gravel	17	62	

Well 37/4W-36A1

Type of record: Driller's log. Altitude: 866 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil, black	1	1	
Clay, silty, sandy	1	2	
Silt, sand, and clay; with some pebbles	3	5	
Sand, fine to coarse, brown to light-brown, with silt and gravel	3	8	
Sand and gravel	2	10	
Sand, fine to coarse, tan to gray, with some silt and gravel	5	15	
Sand and gravel; gray to tan, with some silt seams, brown clay, and silt	5	20	

Well 37/4W-36A1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, fine to coarse, gray to brown, and gravel; trace of silt and clay	10	30	

Well 37/4W-36F1

Type of record: Driller's log. Altitude: 840 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil	1	1	
Sand, medium to coarse, brown, with some gravel and trace of silt	15	16	
Sand, clean, brown to tan, with shale pebbles at base	6	22	
Sand, fine to coarse, brown, with trace of gravel	3	25	
Sand, medium to coarse, clean, brown	5	30	

Well 37/4W-36G4

Type of record: Driller's log. Altitude: 887 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil, black	1	1	
Sand, silty, brown	1	2	
Silt, brown, with trace of sand	2	4	
Sand, brown, and silt, with some gravel	1	5	
Sand, fine, silty, brown	1	6	
Sand, medium to coarse, brown, stratified, with some silt seams	6	12	
Silt, sandy, brown and black, stratified	3	15	
Sand, fine to coarse, brown, stratified, with some gravel and trace of silt	17	32	
Sand, fine to coarse, brown and gray, stratified, with trace of silt and gravel	7	39	
Hardpan; silt, sand, and gravel with brown and black shale pebbles	1	40	
Sand, medium to coarse, clean, tan and gray	2	42	
Silt and sand; yellow	3	45	

Well 37/4W-36G4--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, coarse, with some silt and gravel	1	46	
Record missing	4	50	
Sand, medium to coarse, brown, with trace of silt and gravel-	5	55	

Well 37/4W-36G5

Type of record: Driller's log. Altitude: 888 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil, black	2	2	
Silt and fine sand	4	6	
Sand, silty, brown, and gravel	10	16	
Sand, medium to coarse, clean, brown	6	22	
Sand, medium to coarse, clean, tan, brown, and gray, with coarse sand and pea-sized gravel at base	8	30	
Sand, fine to coarse, tan and brown, stratified, with trace of silt seams and gravel	10	40	
Sand, fine to coarse, brown to gray, stratified, with some shale pebbles	10	50	
Sand, fine to coarse, brown, with some shale pebbles	6	56	

Well 37/4W-36M1

Type of record: Driller's log. Altitude: 844 feet.

Quaternary system:			
Recent and Pleistocene series:			
Silt, sandy, and silty sand; brown	2	2	
Sand, fine to coarse, brown, with some gravel and trace of silt	14	16	
Sand, fine, clean, brown to tan, stratified, with trace of gravel and silt	4	20	
Sand, fine to coarse, brown and tan, stratified; trace of silt and gravel	15	35	
Sand, silt, and gravel; brown, stratified	1	36	

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

Well 37/4W-36M1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, fine, brown, stratified, with silt seams and shale pebbles	2	38	
Sand, brown, and some silt	2	40	

Well 38/1W-7Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown, and gravel	46	46	
Clay, blue	43	89	
Sand, white	4	93	

Well 38/1W-16J1

Type of record: Driller's log. Altitude: 811 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil	2	2	
Clay, silty, dark-brown	2	4	
Clay, sandy, brown, with rock fragments	10	14	
Clay, sandy, and gravel; brown	10	24	
Sand, fine to coarse, with trace of gravel	10	34	
Sand, coarse, and gravel; with trace of clay	5	39	
Sand, medium, and small gravel	5	44	
Clay, sandy, and large gravel	1	45	

Well 38/1W-16P2

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

Quaternary system:			
Recent and Pleistocene series:			
Loam, sandy, brown	1	1	
Silt, medium, clayey, brown	3	4	
Clay, silty, yellow	6	10	
Clay, silty, sandy, yellow	12	22	
Sand, fine to coarse, clayey, brown	2	24	
Clay, silty, sandy, yellow	2	26	
Sand, fine, yellow	12	38	
Sand, fine to coarse, silty, yellow, and gravel	3	41	
Silt, clayey, sandy, gray	7	48	
Sand, fine to medium, yellow	4	52	

Well 38/1W-16P2--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Silt, sandy, gray	2	54	
Sand, fine to coarse, brown, and gravel	1	55	

Well 38/1W-16Q2

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

Quaternary system:			
Recent and Pleistocene series:			
Loam, sandy, brown	1	1	
Clay, silty, yellow	7	8	
Clay, silty, yellow, with trace of sand and gravel	6	14	
Clay, silty, sandy, yellow, with trace of gravel	7	21	
Sand, silty, yellow, with trace of fine gravel	5	26	
Sand, fine to coarse, silty, yellow	6	32	
Sand, fine, silty, yellow, with trace of gravel	8	40	

Well 38/1W-16Q4

Type of record: Driller's log. Altitude: 819 feet.

Quaternary system:			
Recent and Pleistocene series:			
Loam, sandy, brown	1	1	
Silt, medium, clayey, sandy, yellow	3	4	
Clay, silty, yellow	2	6	
Silt, sandy, yellow	3	9	
Sand, fine to coarse, silty, yellow, and gravel	3	12	
Clay, silty, sandy, yellow	4	16	
Clay, silty, gray	2	18	
Sand, fine to medium, silty, brown	3	21	
Clay, silty, yellow	3	24	
Sand, fine to coarse, clayey, yellow	2	26	
Sand, fine to medium, silty, yellow	10	36	
Sand, fine, silty, yellow, gravel, and boulders	4	40	

Well 38/1W-16Q5

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Loam, sandy, brown	1	1	
Clay, silty, brown	5	6	
Clay, silty, sandy, yellow	2	8	
Clay, silty, yellow, with trace of gravel	4	12	
Sand, fine to coarse, clayey, yellow, and fine gravel	4	16	
Clay, silty, gray, with trace of sand	4	20	
Clay, silty, yellow, with trace of sand	5	25	
Sand, fine to medium, silty, yellow, with fine gravel, some broken rock, and pieces of broken shale	25	50	

Well 38/1W-17P1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown, and gravel	18	18	
Gravel, brown	16	34	
Clay, blue, and sand	10	44	
Sand, fine	7	51	
Gravel, blue	7	58	

Well 38/1W-18D1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay	36	36	
Gravel	8	44	
Clay and sand	9	53	
Sand, white and brown	6	59	

Well 38/1W-19E1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, sand, and gravel	36	36	
Gravel and brown sand	36	72	
Gravel	18	90	
Gravel, coarse, with sand	4	94	

Well 38/1W-19N1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Loam, clayey, yellow	1	1	
Clay, medium, silty, yellow	3	4	
Clay, silty, yellow	4	8	
Silt, clayey, sandy, yellow	6	14	
Clay, silty, yellow	4	18	
Sand, fine to coarse, silty, yellow, and fine gravel	26	44	

Well 38/1W-19N4

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Loam, clayey, yellow	1	1	
Clay, medium, silty, yellow	2	3	
Clay, silty, yellow	3	6	
Clay, hard, silty, yellow	4	10	
Clay, silty, yellow, with trace of sand	8	18	
Sand, fine, yellow	8	26	
Clay, silty, yellow	2	28	
Clay, silty, sandy, yellow	4	32	
Clay, silty, blue	6	38	
Clay, silty, yellow	2	40	
Sand, fine to coarse, silty, brown, with fine to coarse gravel	6	46	

Well 38/1W-20M1

Type of record: Driller's log. Altitude: 822 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, silty, yellow	6	6	
Silt, clayey, sandy, yellow	5	11	
Sand, fine to medium, very silty, yellow	3	14	
Sand, fine, yellow, with trace of fine gravel	14	28	
Sand, fine, clayey, yellow, with fine gravel and broken rock	10	38	
Sand, fine to medium, silty, yellow	2	40	

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

Well 38/1W-20M5

Type of record: Driller's log. Altitude: 818 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, medium, silty, yellow	6	6	
Sand, fine, silty, brown	5	11	
Sand, fine, yellow	2	13	
Sand, fine, yellow, with trace of fine gravel	13	26	
Sand, fine to medium, yellow, and gravel	8	34	
Sand, fine to coarse, yellow, gravel, and broken rock	11	45	

Well 38/1W-21B1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow	20	20	
Sand	20	40	
Gravel, coarse	20	60	
Sand and gravel	9	69	

Well 38/1W-21D1

Type of record: Driller's log. Altitude: 806 feet.

Quaternary system:			
Recent and Pleistocene series:			
Loam, sandy, brown	1	1	
Silt, stiff, clayey, sandy, brown	3	4	
Clay, very stiff, silty, yellow	4	8	
Sand, fine, clayey, yellow	5	13	
Sand, fine, silty, yellow	9	22	
Sand, fine to coarse, silty, yellow, and fine gravel	4	26	
Sand, fine, yellow	19	45	

Well 38/1W-21N1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay and sand	25	25	
Clay, brown	15	40	
Sand and gravel	10	50	
Sand, white	10	60	
Sand and gravel	7	67	

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

Well 38/1W-28C1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, brown, and clay----------	18	18	
Gravel, brown, and sand---------	6	24	
Silt and clay-------------------	8	32	
Sand, white, and gravel---------	8	40	

Well 38/1W-28D4

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

Quaternary system:			
Recent and Pleistocene series:			
Clay----------	10	10	
Sand and gravel----------	20	30	
Sand, coarse, brown, with little gravel----------	10	40	

Well 38/1W-28L1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown, and gravel---------	18	18	
Sand, white, and gravel---------	16	34	
Clay, blue----------	4	38	
Sand, fine, silty----------	14	52	
Sand, white, and gravel---------	7	59	

Well 38/1W-28Q2

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown, and gravel---------	18	18	
Sand, brown, and clay----------	18	36	
Sand, fine, brown----------	10	46	
Sand, fine, white----------	8	54	
Sand coarse, and gravel---------	6	60	
Gravel----------	12	72	
Sand, white, and gravel---------	5	77	

Well 38/1W-29P1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand----------	72	72	
Gravel and sand----------	22	94	
Sand and clay----------	18	112	

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

Well 38/1W-29P1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, coarse----------	6	118	

Well 38/1W-31R1

Type of record: Driller's log. Altitude: 855 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown----------	30	30	
Gravel and brown sand----------	20	50	
Sand, brown, and gravel---------	40	90	
Sand, brown----------	12	102	

Well 38/1W-32Q1

Type of record: Driller's log. Altitude: 840 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown, and gravel---------	50	50	
Sand, brown, and clay----------	10	60	
Sand, brown, and gravel---------	20	80	
Sand, brown----------	8	88	

Well 38/1W-32Q2

Type of record: Driller's log. Altitude: 840 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand and dirt----------	18	18	
Sand----------	22	40	
Gravel and sand----------	25	65	
Clay and sand----------	15	80	
Sand, brown----------	9	89	

Well 38/1W-33K1

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

Quaternary system:			
Recent and Pleistocene series:			
Dirt, black, and sand----------	18	18	
Sand, brown, and gravel---------	54	72	
Sand, brown----------	14	86	

Well 38/2W-12Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, fine----------	20	20	

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

Well 38/2W-12Q1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Silt and clay	30	50	
Sand, coarse	10	60	

Well 38/2W-14Q1

Type of record: Driller's log. Altitude:

Quaternary system:			
Recent and Pleistocene series:			
Sand, fine, brown	18	18	
Clay, blue, and sand	7	25	
Sand, white	4	29	

Well 38/2W-14Q2

Type of record: Driller's log. Altitude:

Quaternary system:			
Recent and Pleistocene series:			
Sand, fine, brown	24	24	
Clay, blue	39	63	
Sand, white	6	69	

Well 38/2W-14Q3

Type of record: Driller's log. Altitude:

Quaternary system:			
Recent and Pleistocene series:			
Clay	15	15	
Sand, white	10	25	
Gravel and fine silt	15	40	
Silt and clay	30	70	
Sand, white	9	79	

Well 38/2W-17Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay and fine sand	10	10	
Silt, fine, and sand	20	30	
Clay, blue, and white sand	20	50	
Sand, white, and pea-sized gravel	6	56	

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

Well 38/2W-18P1

Type of record: Driller's log. Altitude: 645 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel	18	18	
Clay	15	33	
Sand, coarse, and gravel	8	41	

Well 38/2W-21R1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, fine, brown	85	85	
Clay and silt	35	120	
Silt, gray	40	160	
Sand, coarse, gray	5	165	

Well 38/2W-22A1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand	25	25	
Sand, hard	150	175	
Mississippian and Devonian system:			
Lower Mississippian and Upper Devonian series:			
Shale, hard, gray	100	275	
Shale, hard, mixed colors	100	375	
Shale, brown	50	425	
Shale, blue, with pyrite	21	446	
Devonian and Silurian system:			
Middle Devonian and Middle Silurian series:			
Lime	31	477	
Lime, hard, light-colored	26	503	
Lime and shale	2	505	
Lime, brown	3	508	
Lime with dark streaks	9	517	
Lime, brown	33	550	
Lime, light	40	590	
Lime, brown	74	664	
Lime, gray	72	736	
Lime, with shale streaks	3	739	
Lime, brown	3	742	
Shale, dark	2	744	
Lime with shale streaks	12	756	
Shale	2	758	
Lime	2	760	
Dolomite and dark lime	16	776	

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

Well 38/2W-22A1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Devonian and Silurian system:			
Middle Devonian and Middle Silurian series:			
Lime, white	4	780	
Lime, white and gray	12	792	

Well 38/2W-22E1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown, and clay	36	36	
Clay, blue, and white silt	24	60	
Gravel, clay, and silt	30	90	
Sand, white	4	94	

Well 38/2W-24A1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay	15	15	
Gravel and brown sand	21	36	
Sand, brown, and clay	20	56	
Sand, white, and gravel	7	63	

Well 38/2W-24R1

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

Quaternary system:			
Recent and Pleistocene series:			
Loam, clayey, brown	1	1	
Clay, medium, silty, yellow	5	6	
Silt, soft, clayey, yellow	4	10	
Clay, silty, yellow	4	14	
Clay, hard, silty, gray	5	19	
Clay, hard, silty, yellow	2	21	
Sand, fine to coarse, yellow, with pieces of broken rock	5	26	
Sand, fine to medium, yellow	12	38	
Sand, fine to coarse, silty, yellow, and gravel	5	43	
Sand, fine to coarse, yellow, gravel, and broken rock	8	51	

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

Well 38/2W-24R2

Type of record: Driller's log. Altitude: 809 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Loam, clayey, yellow	1	1	
Clay, medium, silty, sandy, yellow	10	11	
Clay, silty, sandy, yellow	7	18	
Sand, fine to medium, yellow, fine gravel, and broken rock	6	24	
Clay, silty, sandy, yellow	2	26	
Clay, silty, gray	2	28	
Sand, fine to coarse, silty, yellow, with fine to medium gravel and broken rock	12	40	

Well 38/2W-24R3

Type of record: Driller's log. Altitude: 784 feet.

Quaternary system:			
Recent and Pleistocene series:			
Peat	5	5	
Silt, sandy	9	14	
Silt	4	18	
Clay	3	21	
Silt, sandy	5	26	
Clay	6	32	
Silt, sandy	3	35	

Well 38/2W-25C1

Type of record: Driller's log. Altitude:

Quaternary system:			
Recent and Pleistocene series:			
Clay	15	15	
Gravel and brown sand	37	52	
Sand, coarse, brown	13	65	

Well 38/2W-25D1

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

Quaternary system:			
Recent and Pleistocene series:			
Loam, medium, clayey, brown	3	3	
Clay, silty, yellow	7	10	
Sand, fine, silty, yellow	6	16	
Sand, fine to medium, silty, yellow, with trace of fine gravel and broken rock	10	26	
Sand, fine to coarse, yellow, and fine gravel	14	40	

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

Well 38/2W-25D3

Type of record: Driller's log. Altitude:

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Dirt and sand	18	18	
Sand	32	50	
Gravel and sand	10	60	
Sand and clay	10	70	
Sand, coarse, brown	7	77	

Well 38/2W-25H4

Type of record: Driller's log. Altitude:

Quaternary system:			
Recent and Pleistocene series:			
Sand and clay	25	25	
Gravel and brown sand	21	46	
Sand, brown	6	52	

Well 38/2W-25H5

Type of record: Driller's log. Altitude:

Quaternary system:			
Recent and Pleistocene series:			
Clay and sand	36	36	
Gravel, extra hard	20	56	
Sand, brown, and clay	24	80	
Sand, coarse, white	5	85	

Well 38/2W-25H6

Type of record: Driller's log. Altitude:

Quaternary system:			
Recent and Pleistocene series:			
Clay	15	15	
Sand	3	18	
Clay and sand	36	54	
Clay	6	60	
Gravel	11	71	
Sand, coarse, brown	5	76	

Well 38/2W-26A4

Type of record: Driller's log. Altitude: 814 feet.

Quaternary system:			
Recent and Pleistocene series:			
Loam, medium, clayey, brown	2	2	
Clay, sandy, silty, yellow	8	10	
Sand, fine to coarse, very silty, brown	4	14	

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

Well 38/2W-26A4--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, fine to medium, yellow, with pieces of broken rock----	9	23	
Sand, fine to medium, silty, yellow, with small pieces of broken rock----------	17	40	

Well 38/2W-26G1

Type of record: Driller's log. Altitude: 816 feet.

Quaternary system:			
Recent and Pleistocene series:			
Loam, sandy, brown----------	1	1	
Clay, stiff, silty, sandy, yellow and brown----------	3	4	
Silt, stiff, clayey, sandy, yellow----------	6	10	
Sand, fine, silty, yellow-------	1	11	
Clay, hard, silty, yellow-------	4	15	
Clay, hard, silty, gray---------	3	18	
Sand, fine, silty, yellow-------	2	20	

Well 38/2W-26G2

Type of record: Driller's log. Altitude: 829 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, silty, sandy, brown-------	6	6	
Sand, fine to coarse, silty, brown----------	2	8	
Gravel, fine, and fine yellow sand; with pieces of rock----	2	10	
Sand, fine, yellow----------	22	32	
Sand, fine to coarse, silty, brown, with trace of fine gravel----------	13	45	

Well 38/2W-26H1

Type of record: Driller's log. Altitude: 811 feet.

Quaternary system:			
Recent and Pleistocene series:			
Peat----------	1	1	
Clay, soft, silty, brown-------	3	4	
Silt, medium, clayey, gray------	6	10	
Clay, very stiff, silty, gray---	6	16	
Sand, fine to coarse, silty, gray----------	2	18	
Sand, fine, yellow----------	2	20	

Well 38/2W-26K2

Type of record: Driller's log. Altitude: 831 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, silty, brown	6	6	
Sand, fine to coarse, clayey, brown, with trace of fine gravel	5	11	
Sand, fine, yellow	7	18	
Sand, fine, yellow, and fine gravel	8	26	
Sand, fine to coarse, silty, brown, and fine gravel	14	40	

Well 38/2W-26N1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Silt, medium, clayey, sandy, brown	6	6	
Sand, fine to medium, silty, yellow, with trace of fine gravel	12	18	
Sand, fine, yellow	13	31	
Sand, fine, yellow, with pieces of broken sand rock	2	33	
Sand, fine to medium, yellow	3	36	
Sand, fine, yellow	2	38	
Sand, fine to medium, silty, yellow, with trace of gravel	7	45	

Well 38/2W-26P1

Type of record: Driller's log. Altitude: 828 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Silt, medium, clayey, sandy, brown	4	4	
Sand, fine to medium, silty, brown, with trace of gravel	2	6	
Sand, fine, silty, yellow, with trace of fine gravel	10	16	
Sand, fine, yellow	2	18	
Sand, fine to coarse, silty, brown, with fine to coarse gravel	3	21	
Sand, fine to medium, silty, yellow, with trace of gravel	14	35	

Well 38/2W-28C1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, sandy, brown	18	18	
Sand and silt	10	28	
Sand, white	4	32	

Well 38/2W-30G1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, brown, and gravel	54	54	
Sand, fine, clay, and gravel	14	68	
Gravel, coarse	6	74	

Well 38/2W-30L1

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

Quaternary system:			
Recent and Pleistocene series:			
Gravel and brown clay	18	18	
Clay, blue	10	28	
Sand, white	4	32	
Silt	25	57	
Sand, white	9	66	

Well 38/2W-32E1

Type of record: Driller's log. Altitude: 855 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay	30	30	
Sand, brown	24	54	
Clay and sand	23	77	
Gravel and clay	13	90	
Sand, gravel, and clay	32	122	
Sand, coarse, white	6	128	

Well 38/2W-32M1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, brown	18	18	
Sand, brown, and gravel	36	54	
Gravel	9	63	
Sand, brown	17	80	
Sand, brown, and gravel	20	100	
Sand, white	7	107	

Well 38/2W-32M1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, white, and gravel	8	115	

Well 38/2W-33D1

Type of record: Driller's log. Altitude: 875 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, brown, gravel, and clay	80	80	
Sand, coarse, brown	10	90	
Clay and silt	20	110	
Sand, fairly coarse, white, and gravel	7	117	

Well 38/2W-34A1

Type of record: Driller's log. Altitude: 840 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil	2	2	
Clay, sandy, yellow	50	52	
Sand and gravel	8	60	
Sand, dirty, with little gravel	10	70	
Sand, yellow	45	115	
Sand, gray, with some gravel	15	130	

Well 38/2W-34A2

Type of record: Driller's log. Altitude: 840 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay	2	2	
Clay, sandy	28	30	
Sand, muddy, and gravel	8	38	
Sand and gravel	2	40	
Sand, brown	35	75	
Sand and gravel	10	85	
Sand, brown	25	110	
Sand, gray, and gravel	6	116	Sandy clay at 116 feet.

Well 38/2W-34A3

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Loam, medium, sandy, brown	2	2	
Sand, fine, clayey, brown	2	4	
Silt, medium, sandy, brown	4	8	

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

Well 38/2W-34A3--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Silt, soft, brown	5	13	
Sand, fine, silty, yellow	5	18	
Silt, stiff, sandy, yellow	4	22	
Silt, medium, sandy, gray	4	26	
Sand, fine to medium, silty, yellow	3	29	
Sand, fine, clayey, yellow, with trace of brown shale	6	35	

Well 38/2W-34H1

Type of record: Driller's log. Altitude: 839 feet.

Quaternary system:			
Recent and Pleistocene series:			
Loam, stiff, sandy	1	1	
Clay, stiff, sandy, brown	5	6	
Sand, fine, brown	3	9	
Silt, medium, sandy, yellow	3	12	
Sand, fine, silty, yellow	2	14	
Silt, stiff, sandy, yellow	7	21	
Sand, hard, clayey, yellow	5	26	
Sand, fine to medium, very silty	6	32	
Sand, fine, clayey, brown	8	40	

Well 38/2W-34H2

Type of record: Driller's log. Altitude: 841 feet.

Quaternary system:			
Recent and Pleistocene series:			
Loam, medium, sandy, brown	1	1	
Sand, fine to medium, clayey, brown	3	4	
Silt, medium, clayey, sandy, brown	2	6	
Sand, fine to medium, clayey, brown, with pieces of broken rock	3	9	
Clay, hard, very sandy, brown	2	11	
Sand, fine, silty, yellow	5	16	
Silt, hard, sandy, yellow	5	21	
Silt, stiff, gray, with trace of clay	7	28	

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

Well 38/2W-35P2

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel	18	18	
Sand, gravel, and clay	18	36	
Gravel and fine sand	42	78	
Sand, brown	17	95	

Well 38/3W-9Q2

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, soft, brown	6	6	
Clay, soft, sandy, brown	4	10	
Clay, medium soft, gray, with gravel partings	6	16	
Clay, medium soft, gray	6	22	
Clay, soft, silty, gray	10	32	
Sand, fine, gray	8	40	
Clay, stiff, gray	12	52	

Well 38/3W-9Q4

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil, sandy, brown	6	6	
Clay, medium stiff to soft, gray, with some gravel	37	43	
Sand, fine, gray	7	50	
Clay, medium stiff, gray	6	56	
Sand, gray	6	62	

Well 38/3W-9Q5

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, fine to medium, brown	2	2	
Clay, medium stiff, brown	17	19	
Clay, soft, gray	5	24	
Sand, gray	2	26	
Sand, silty, gray	14	40	
Clay, medium stiff, gray, with some gravel	6	46	

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

Well 38/3W-10E1

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Loam, sandy, black	1	1	
Sand, light-brown	14	15	
Clay, silty, gray	25	40	
Sand, medium, gray	10	50	
Sand, gray, with some small gravel	10	60	
Clay and gravel	2	62	

Well 38/3W-10E3

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

Quaternary system:			
Recent and Pleistocene series:			
Loam, sandy, black	1	1	
Sand, light-brown	8	9	
Sand, silty, gray	4	13	
Clay, sandy, gray	5	18	
Sand and gravel; gray	2	20	
Clay, gray, with gravel	4	24	
Clay, gray	35	59	
Sand, fine	4	63	

Well 38/3W-14A1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay and sand	36	36	
Silt and blue clay	35	71	
Sand, white	5	76	

Well 38/3W-15J1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, brown	18	18	
Silt, fine	16	34	
Sand, white	6	40	

Well 38/3W-17Q3

Type of record: Driller's log. Altitude: 652 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand, yellow and brown	6	6	
Sand, gray and brown	3	9	

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

Well 38/3W-17Q3--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, gray, with clay layers----	3	12	
Clay, gray----------	38	50	
Clay, dense, gray----------	6	56	

Well 38/3W-19A1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, yellow----------	5	5	
Clay, yellowish----------	11	16	
Clay, blue----------	115	131	

Well 38/3W-26F2

Type of record: Driller's log. Altitude: 663 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand, silty, organic, black, with trace of gravel and clay-	2	2	
Sand, gray and brown, with trace of silt----------	33	35	
Clay, silty, gray, with trace of sand and gravel----------	1	36	
Sand, gray, with trace of silt--	14	50	

Well 38/3W-26F3

Type of record: Driller's log. Altitude: 664 feet.

Quaternary system:			
Recent and Pleistocene series:			
Fill; black and red organic silty sand----------	2	2	
Clay, silty, brown----------	4	6	
Sand, silty, gray, with trace of clay----------	4	10	
Sand, gray and brown, with trace of silt and gravel------	4	14	
Sand, brown, with trace of silt----------	2	16	
Sand, brown and gray, with trace of silt----------	6	22	
Sand, gravelly, brown and gray, with trace of silt and clay---	4	26	
Sand, brown, with trace of silt----------	4	30	

Well 38/3W-31L1

Type of record: Driller's log. Altitude: 624 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil, sandy, brown	2	2	
Clay, sandy, gray	1	3	
Sand, gray	14	17	
Clay, soft, gray	1	18	
Sand, gray	5	23	
Clay, stiff, gray	4	27	
Clay, sandy, gray	6	33	
Silt, gray, to fine gray sand	3	36	

Well 38/3W-31L2

Type of record: Driller's log. Altitude: 622 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, soft, silty, brown and gray	3	3	
Sand, fine to medium, gray	6	9	
Clay, medium, stiff, gray	15	24	
Sand, soft, silty, gray	11	35	
Sand, fine to medium, gray	1	36	

Well 38/3W-31L4

Type of record: Driller's log. Altitude: 622 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Silt and sand; yellow	3	3	
Sand, gray	10	13	
Clay, dense, gray	11	24	
Silt, gray, with sand and gravel	8	32	

Well 38/3W-31N1

Type of record: Driller's log. Altitude: 621 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, gray and brown	10	10	
Sand, gray	9	19	
Sand, gray, with some gravel	4	23	
Clay, stiff, gray	9	32	
Sand and gravel; gray, with shale seams	2	34	
Silt, gray	6	40	
Clay, dense, silty, gray, with some gravel	1	41	

Well 38/3W-31N2

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, fine to medium, brown	2	2	
Sand, fine, gray, with traces of peat	20	22	
Sand, gray	3	25	
Clay, sand, and gravel	14	39	Till.
Sand, fine, gray	3	42	
Gravel and sand; gray	4	46	

Well 38/3W-33D2

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

Quaternary system:			
Recent and Pleistocene series:			
Sand	10	10	
Clay	26	36	
Sand, fine, and clay	14	50	
Gravel, coarse, and white sand	3	53	

Well 38/3W-33N1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown	18	18	
Silt	14	32	
Clay, blue	18	50	
Sand, fine	7	57	
Sand, fine, and gravel	3	60	
Gravel and sand	7	67	

Well 38/3W-35K1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown	10	10	
Clay, blue	24	34	
Sand, white, and gravel	6	40	

Well 38/3W-36M1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, brown and blue	18	18	
Silt and clay	62	80	
Sand and gravel	6	86	

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

Well 38/3W-36M1---Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand	10	96	
Sand, coarse, white	4	100	

Well 38/4W-13Q1

Type of record: Driller's log. Altitude: 625 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand	18	18	
Clay, blue	42	60	
Gravel, sand, and clay	6	66	
Clay, blue	84	150	
Devonian system:			
Upper Devonian series:			
Shale	50	200	

Well 38/4W-22L2

Type of record: Driller's log. Altitude: 615 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand	30	30	
Clay, sandy	20	50	
Clay, blue	20	70	
Clay	15	85	
Sand	20	105	
Clay, blue	30	135	
Gravel	23	158	
Clay, blue	37	195	
Devonian system:			
Upper Devonian series:			
Shale, brown	40	235	
Shale, blue	13	248	
Shale, brown	19	267	
Middle Devonian series:			
Limestone	28	295	Water at 264 feet; crevice at 283 feet.

Well 38/4W-22M1

Type of record: Sample study by Indiana Geological Survey. Altitude: 615 feet.

Quaternary system:			
Recent and Pleistocene series:			
Drift	205	205	

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

Well 38/4W-22M1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Devonian system:			
Upper Devonian series:			
Shale, dark-grayish-brown, very sporiferous, slightly pyritic-	30	235	
Shale, dark-grayish-brown, slightly sporiferous, slightly pyritic----------	15	250	
Shale, dark-grayish-brown, slightly sporiferous, pyritic, with some pyritic dark-brownish-gray very cherty sandy dolomite----------	3	253	
Devonian and Silurian system:			
Middle Devonian and Middle Silurian series:			
Limestone----------	2	255	
Dolomite, coarse-crystalline, dark-brown----------	5	260	
Dolomite, coarse-crystalline, porous, whitish-brown----------	6	266	
Dolomite, coarse-crystalline, porous, light-tan to dark-brown----------	9	275	
Dolomite, coarse-crystalline, light-tan, dark-brown, and white----------	5	280	
Limestone, medium to coarse-crystalline, sandy, dolomite, whitish-gray----------	5	285	
Limestone, fine to coarse-crystalline, sandy, dolomitic, whitish-gray and brown----------	2	287	
Dolomite, fine to coarse-crystalline, sandy, light-tan to dark-grayish-brown----------	13	300	
Limestone, fine to medium-crystalline, sandy, argillaceous, light-tan to grayish-brown----	5	305	
Limestone, dense to medium-crystalline, slightly argillaceous, grayish-tan to gray----------	5	310	
Limestone, fine-crystalline, light-grayish-tan----------	10	320	
Limestone, fine to medium-crystalline, slightly dolomitic, light-tan to tan; with some very dark-brown argillaceous dolomite----------	5	325	
Limestone, dense, dolomitic, light-tan----------	5	330	

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

Well 38/4W-22M1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Devonian and Silurian system:			
Middle Devonian and Middle Silurian series:			
Limestone, dense, argillaceous, dolomitic, white to light-gray-	5	335	
Dolomite, fine-crystalline, light-gray and light-tan, with gypsum	10	345	
Limestone, hard, dense, gypsiferous, light-gray	10	355	
Limestone, fine to medium-crystalline, dolomitic, gray to light-tan	10	365	
Dolomite, fine to medium-crystalline, light to dark-brown	15	380	
Dolomite, fine-crystalline, slightly vuggy, light to dark-brown	10	390	
Dolomite, fine-crystalline, slightly argillaceous, slightly gypsiferous, light-grayish-tan to light-brown	15	405	
Limestone, dense, argillaceous, white to light-gray, with trace of gray shale	5	410	
Limestone, dense, slightly argillaceous, light-gray to light-tan	5	415	
Limestone, dense, sandy, slightly dolomitic, white to light-gray	5	420	
Limestone, dense, sandy, dolomitic, white to light-gray, with some brownish-green and grayish-brown dense dolomite	5	425	
Dolomite, dense, slightly vuggy, gray, blue-gray, and light-tan	5	430	
Dolomite, dense, slightly sand, light-tan, white, and light-gray	5	435	
Dolomite, dense, light-tan and light-gray	15	450	
Dolomite, medium-crystalline, light-tan and dark-grayish-brown	4	455	
Dolomite, medium-crystalline, medium-porous, dark-brown	5	460	

Well 38/4W-22M1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Devonian and Silurian system:			
Middle Devonian and Middle Silurian series:			
Dolomite, fine-crystalline, slightly vuggy, white to whitish-tan	47	507	
Dolomite, medium-crystalline, medium-porous, white to whitish-gray	33	540	
Dolomite, medium to coarse-crystalline, white to whitish-gray	5	545	
Dolomite, fine-crystalline, white, gray, and pink	5	550	
Dolomite, fine-crystalline, white and pink	10	560	
Dolomite, fine to medium-crystalline, white and pink	10	570	
Dolomite, fine to medium-crystalline, white, whitish-gray, and yellow	15	585	
Dolomite, fine to medium-crystalline, white, yellow, and pink	5	590	
Dolomite, fine to medium-crystalline, white and whitish-gray	40	630	
Dolomite, very fine-crystalline, soft, white to whitish-gray, with some crystalline quartz	5	635	
Dolomite, very fine-crystalline, gypsiferous, white to whitish-gray, with some crystalline quartz and trace of green shale	5	640	
Dolomite, very fine-crystalline, soft to hard, white and whitish-gray	5	645	

Well 38/4W-22M2

Type of record: Driller's log. Altitude: 615 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand	8	8	
Sand, muddy	7	15	
Sand and some small gravel	9	24	
Sand, muddy	3	27	
Clay	118	145	
Clay, gravelly	18	163	

Well 38/4W-23J1

Type of record: Driller's log. Altitude: 625 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand	18	18	
Clay	62	80	
Sand, fine	5	85	
Clay	11	96	
Sand, coarse, snow-white	10	106	

Well 38/4W-25B2

Type of record: Driller's log. Altitude: 645 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand	12	12	
Clay	124	136	
Sand	8	144	

Well 38/4W-25G1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand	8	8	
Clay	82	90	
Sand	23	113	

Well 38/4W-25H1

Type of record: Driller's log. Altitude: 645 feet.

Quaternary system:			
Recent and Pleistocene series:			
Muck	3	3	
Clay, blue	7	10	
Sand, coarse	4	14	
Clay, blue	2	16	
Quicksand	10	26	
Clay, blue	29	55	
Sand, very coarse, white	7	62	

Well 38/4W-25R1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand	20	20	
Clay	35	55	
Sand	5	60	
Clay	15	75	
Sand	7	82	

Well 38/4W-25R1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay	18	100	
Sand	5	105	
Clay	19	124	
Sand	16	140	

Well 38/4W-26A1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel	30	30	
Clay, blue	62	92	
Sand, medium to coarse	15	107	

Well 38/4W-26P1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown	18	18	
Clay, blue	79	97	
Sand, white, and gravel	6	103	

Well 38/4W-29H3

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

Quaternary system:			
Recent and Pleistocene series:			
Fill and top soil	3	3	
Sand, not clean	7	10	
Sand	25	35	
Clay, soft	83	118	
Clay, hard	31	149	
Devonian system:			
Upper Devonian series:			
Shale, brown	70	219	
Devonian and Silurian system:			
Middle Devonian and Middle Silurian series:			
Sand rock, not clean	17	236	
Lime rock, hard, not clean	47	283	
Mixed rock muddy	37	320	
Lime rock, brown	5	325	
Lime rock, porous, gray	43	368	
Limestone, brown, tight	87	455	
Stone, porous, gray	13	468	

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

Well 38/4W-29H5

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil	2	2	
Sand, fine	4	6	
Sand, muddy	10	16	
Sand and gravel	11	27	
Clay, soft	6	33	

Well 38/4W-29H6

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

Quaternary system:			
Recent and Pleistocene series:			
Fill	2	2	
Soil, sandy	3	5	
Mud, soft	13	18	
Sand, very fine	11	29	
Clay	4	33	

Well 38/4W-29K1

Type of record: Driller's log. Altitude: 609 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface	15	15	
Sand, fine to coarse, yellow, and gravel	11	26	
Sand, fine, white	24	50	
Sand, fine, and clay	3	53	Solid blue clay at 53 feet.

Well 38/4W-29K2

Type of record: Driller's log. Altitude: 612 feet.

Quaternary system:			
Recent and Pleistocene series:			
Soil and sand	15	15	
Sand, coarse, yellow	20	35	
Sand, coarse, white	12	47	
Clay	13	60	
Sand, very fine, and clay	43	103	

Well 38/4W-29L1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand	30	30	
Clay	70	100	

Well 38/4W-29L1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand	120	220	

Well 38/4W-30K1

Type of record: Driller's log. Altitude: 615 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand	90	90	
Clay and boulders	100	190	
Devonian system:			
Upper Devonian series:			
Slate, black	32	222	Shale.
Devonian and Silurian system:			
Middle Devonian and Middle Silurian series:			
Lime, brown	70	292	
Lime, white and gray, mixed	95	387	
Lime, white, and rock	243	630	
Salt rock	320	950	

Well 38/4W-31R2

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

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand	18	18	
Clay and sand	8	26	
Clay, blue	48	74	
Sand, fine	18	92	Suitable for 10-slot screen.
Sand	38	130	Suitable for 15-slot screen.

Well 38/4W-33J2

Type of record: Driller's log. Altitude: 627 feet.

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand	40	40	
Clay	72	112	
Sand, fine	28	140	
Clay	1	141	
Boulders	2	143	
Sand, fine	20	163	
Clay	1	164	
Hardpan and boulders	5	169	
Sand, fine	41	210	
Sand and fine gravel	15	225	

Well 38/4W-33J2--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, hard-packed	13	238	

Well 38/4W-33R1

Type of record: Driller's log. Altitude: 627 feet.

Quaternary system:			
Recent and Pleistocene series:			
Fill	25	25	
Clay, sandy, gray	15	40	
Clay, gray	20	60	

Well 38/4W-34P1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown	10	10	
Clay	16	26	
Sand, white	6	32	

Well 38/4W-34P2

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown	18	18	
Sand, white, and clay	6	24	
Sand, white	9	33	

Well 38/4W-35E3

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil	7	7	
Clay	81	88	Streak of dirty gravel at 88 feet.
Hardpan	32	120	
Sand, dirty	5	125	
Clay and sand	2	127	
Devonian system:			
Upper Devonian series:			
Shale, brown	13	140	

Well 38/4W-36B1

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

Material	Thickness (feet)	Depth	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand	10	10	
Clay, blue	50	60	
Clay, hard, blue	40	100	
Clay, soft, blue	9	109	
Sand and clay	3	112	
Clay, soft	6	118	
Shale and sand	1	119	
Clay, soft, blue, and sand	61	180	
Sand	8	188	

Well 38/4W-36B2

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

Material	Thickness (feet)	Depth	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, hard, blue	40	40	
Clay, soft	80	120	
Clay and sand	67	187	
Gravel and sand, with shale and clay	10	197	

Well 38/4W-36B4

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

Material	Thickness (feet)	Depth	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow	18	18	
Clay, blue, sand, and gravel	59	77	
Sand, fine, with blue clay balls	22	99	
Gravel, coarse, with broken shale and stone	2	101	
Sand, very fine, and quicksand	27	128	
Sand, fine, and blue clay; with some coarse sand	13	141	
Sand, coarse, gravel, and clay; with streaks of quicksand	11	152	
Sand, coarse	19	171	

Well 38/4W-36F2

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

Material	Thickness (feet)	Depth	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay	20	20	
Sand	2	22	
Clay and silt	18	40	

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

Well 38/4W-36F2--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay	48	88	
Sand, coarse, white	6	94	

Well 38/4W-36P1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow	28	28	
Clay, blue	25	53	
Gravel	1	54	
Clay, blue	18	72	
Clay, brown, mixed with sand and gravel	11	83	
Sand, clean	14	97	
Sand, clean, gray	11	108	

Table 4.--Field chemical analyses of water from wells in La Porte County, Indiana
(Results in parts per million. Analyses by U. S. Geological Survey, except where otherwise noted.)

Wells: See text for description of well-numbering system.
Material: G, gravel; Sd, sand; Sh, shale.
Geologic age: D, Devonian; M, Mississippian; Pl, Pleistocene.
Iron (Fe): U. S. Public Health Service drinking-water standards = 0.3 parts per million for iron and manganese together.
Sulfate (SO_4): U. S. Public Health Service drinking-water standards = 250 parts per million.
Chloride (Cl): U. S. Public Health Service drinking-water standards = 250 parts per million.
Remarks: ICI, analysis by Industrial Chemicals, Inc.; IFC, analysis by International Filter Co.; ISBH, analysis by Indiana State Board of Health.

Well	Material	Geologic Age	Date of Collection	Temperature (°F)	Iron (Fe)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Hardness as $CaCO_3$ (calcium, magnesium)	Remarks
33/4W-14B1	Sd	Pl	9- 4-57	---	>7.5	36	285	---	328	552	
19H1	Sd	Pl	12-17-59	---	.1	19	195	155	16	312	
34/4W- 4D2	Sd	Pl	12-17-59	---	.5	10	151	50	36	172	
35/1W-17R1	Sd,G	Pl	12-17-59	48	1.0	14	210	160	36	340	
35/2W- 3D1	Sd	Pl	12-10-40	52	1.8	---	246	---	---	204	ISBH.
35/4W-31P1	Sh	M?	11-18-59	49	---	34	278	12	196	80	
31P1	Sh	M?	5-10-60	50	.1	10	342	20	196	76	
36/1W- 5M1	Sd	Pl	11-59	52	.1	10	161	30	8	160	
18K1	Sd	Pl	11-59	60	.3	0	205	35	16	168	
23B1	Sd,G	Pl	1-28-47	---	---	0	239	---	4	240	
23B1	Sd,G	Pl	11-59	59	4.0	0	293	150	24	392	
36/2W- 7G1	Sd,G	Pl	12-16-59	---	3.0	10	156	105	24	240	
10M1	Sd	Pl	7- 5-57	---	<.1	0	234	---	26	308	
10Q1	Sd	Pl	11-59	55	.1	19	210	60	26	272	
15A1	Sd,G	Pl	8-29-57	---	.1	12	137	---	20	200	

Table 4.--Field chemical analyses of water from wells in La Porte County, Indiana--Continued

Well	Material	Geologic Age	Date of Collection	Temperature (°F)	Iron (Fe)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Hardness as $CaCO_3$ (calcium, magnesium)	Remarks
36/2W-15A1	Sd,G	Pl	11-59	53	0.1	0	293	45	32	304	
19B1	Sd	Pl	12-14-59	--	.1	14	151	95	16	232	
26P1	Sd	Pl	11-59	54	.1	10	327	80	32	372	
36/3W- 3K1	Sd	Pl	12-16-59	--	.1	43	283	25	8	292	
3P1	Sd,G	Pl	5-24-57	52	.3	0	234	---	6	300	
7C1	Sd	Pl	5-24-57	56	.3	0	315	---	16	252	
9R1	Sd	Pl	5-24-57	53	5.0	0	173	---	2	176	
9R2	Sd	Pl	12-17-59	--	.5	29	220	55	20	256	
10C2	Sd	Pl	12-18-59	--	.3	10	181	60	12	200	
10H3	Sd	Pl	8-21-57	--	---	0	271	---	6	312	
16C1	Sd	Pl	5-24-57	55	.2	0	317	---	4	352	
18E1	Sd,G	Pl	6- 7-57	55	<.1	5	215	---	4	260	
18E1	Sd,G	Pl	12-17-59	51	.1	10	205	50	12	220	
36/4W- 5F1	Sd	Pl	8-30-57	--	1.0	17	315	---	14	240	
5J1	Sd,G	Pl	6- 1-55	--	2.0	0	250	125	3	329	ICI.
5J1	Sd,G	Pl	12-17-59	--	.1	10	244	40	12	244	
5M1	Sd,G	Pl	11-59	58	1.2	0	356	25	16	296	
8A12	Sd	Pl	12-17-59	--	.3	34	283	65	12	325	
8A13	Sd	Pl	12-17-59	--	.3	14	224	90	16	236	
8A14	Sd	Pl	12-17-59	--	.3	24	322	75	20	356	
8C1	Sd	Pl	5-24-57	51	1.8	0	332	---	4	328	
8P1	Sd	Pl	5-24-57	56	.3	0	234	---	4	256	
10H1	Sd	Pl	6-25-57	--	---	7	332	---	28	328	
12N1	Sd,G	Pl	6-25-57	--	---	12	195	---	18	268	
12N1	Sd,G	Pl	11-59	55	.3	0	303	90	28	292	
12P1	Sd	Pl	6- 7-57	53	.2	0	224	---	22	304	
14N2	Sd	Pl	6-16-57	--	1.5	24	205	---	6	208	
15P1	Sd	Pl	11-59	53	.1	0	137	58	44	192	
19E1	Sd,G	Pl	11-59	58	1.5	0	322	6	8	224	
21D1	Sd	Pl	11-59	54	.8	0	420	75	16	372	

36/4W-25L1	Sd	P1	12-18-59	---	>7.5	24	166	95	12	264	
28N1	Sd,G	P1	12-18-59	---	.5	19	175	60	12	208	
37/1W- 5C1	Sd,G	P1	11-59	55	.1	0	239	38	16	220	
6H1	Sd	P1	11-59	55	.2	19	244	65	24	304	
7R1	Sd,G	P1	11-59	54	.1	24	268	35	16	264	
8E1	Sd,G	P1	11-59	54	.1	10	268	80	12	292	
8N1	G,Sd	P1	8-27-57	---	.3	12	127	---	10	168	
9L1	Sd	P1	11-59	55	.8	24	254	55	12	284	
16P1	Sd,G	P1	11-59	58	.1	0	346	50	12	336	
22D1	Sd	P1	11-59	51	.1	0	264	35	8	244	
29J1	G,Sd	P1	11-59	54	.1	0	351	60	24	360	
31C1	Sd	P1	11-59	53	.1	14	220	30	12	216	
37/2W- 1D2	Sd	P1	3-27-57	---	---	0	251	---	---	216	
2A1	Sd,G	P1	11-59	54	.1	0	273	65	16	280	
5C1	Sd	P1	12-15-59	---	.1	19	175	35	12	188	
7H1	Sd	P1	4-19-55	---	.4	0	159	72	15	202	ICI.
7H1	Sd	P1	12-15-59	---	.3	0	288	80	---	484	
8N1	Sd	P1	12-15-59	---	.1	10	205	55	12	220	
9L1	Sd,G	P1	12-15-59	---	.1	24	185	10	16	160	
10L1	Sd,G	P1	12-15-59	---	.1	14	132	40	24	200	
11F1	Sd,G	P1	6- 5-57	---	---	0	---	---	---	316	
12M1	G,Sd	P1	11-59	54	.8	10	122	35	12	148	
12M1	G,Sd	P1	12-14-59	---	.3	10	132	35	8	156	
20P1	Sd,G	P1	8-20-57	---	.3	17	222	---	16	268	
20P1	Sd,G	P1	12-15-59	---	.1	10	205	45	12	208	
20R1	Sd,G	P1	8-27-57	52	1.0	0	320	---	20	368	
26D2	Sd,G	P1	6-27-57	---	---	7	95	---	4	148	
26D2	Sd,G	P1	11-59	53	.1	0	151	50	20	156	
30H1	Sd	P1	12-15-59	---	.8	10	210	95	24	244	
31M1	Sd	P1	12-15-59	---	.1	14	229	145	96	388	
37/3W- 3K1	Sd	P1	8-20-57	54	1.5	0	325	---	10	316	
3K3	Sd	P1	12-18-59	---	.5	19	200	40	8	196	
4F1	G,Sd	P1	5-29-57	46	.5	7	120	---	---	152	
4F2	Sd,G	P1	5-29-57	52	.5	---	146	---	---	136	
4H1	Sd	P1	3-28-57	50	.4	10	159	---	2	180	

Table 4.--Field chemical analyses of water from wells in La Porte County, Indiana--Continued

Well	Material	Geologic Age	Date of Collection	Temperature (°F)	Iron (Fe)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Hardness as $CaCO_3$ (calcium, magnesium)	Remarks
37/3W- 5E1	Sd,G	Pl	3-29-57	52	0.7	14	117	---	---	140	
5G1	G,Sd	Pl	5-29-57	52	.2	10	151	---	---	160	
5P1	Sd	Pl	3-28-57	50	.1	12	122	---	---	180	
5P2	Sd	Pl	3-28-57	43	---	7	112	---	4	178	
5P2	Sd	Pl	6-18-58	56	.5	0	215	---	8	200	
6P1	Sd,G	Pl	3-21-57	51	1.2	12	139	---	4	172	
9R1	Sd	Pl	6-26-57	---	---	10	163	---	4	196	
9R2	Sd	Pl	12-15-59	---	1.0	14	185	35	36	208	
11N1	Sd	Pl	5-19-55	53	5.6	0	263	233	10	445	ICI.
11N1	Sd	Pl	12-16-59	---	.1	14	224	70	8	248	
12A1	Sd	Pl	12-16-59	---	.1	10	185	35	12	200	
14J1	G,Sd	Pl	6-26-57	---	---	0	510	---	12	532	
15H1	Sd	Pl	6-26-57	---	---	0	283	---	28	336	
16G1	Sd	Pl	6-27-57	---	---	0	300	---	4	316	
18C1	Sd	Pl	6-26-57	55	---	0	183	---	16	204	
19J5	Sd	Pl	12-15-59	---	1.0	14	220	125	16	308	
22Q1	Sd	Pl	6-26-57	---	---	5	107	---	20	124	
24C1	Sd,G	Pl	12-16-59	---	.5	0	283	80	16	296	
24P1	Sd,G	Pl	12-16-59	---	.1	14	215	110	20	292	
26J2	Sd,G	Pl	12-16-59	---	.3	24	200	75	20	260	
27G2	G	Pl	12-16-59	---	.3	24	156	10	4	136	
27M2	Sd	Pl	8-22-57	---	---	0	190	---	8	164	
29E1	G	Pl	6-27-57	56	---	0	204	---	7	272	
31L1	Sd	Pl	2- 3-60	46	.5	19	298	55	24	316	
33K1	Sd	Pl	6-27-57	---	---	7	178	---	12	232	
33L1	Sd,G	Pl	12-16-59	---	.3	14	249	90	16	196	
34P1	Sd,G	Pl	8-57	57	1.0	0	349	---	20	380	
34P1	Sd,G	Pl	12-17-59	46	3.0	0	278	70	16	276	
37/4W- 1R1	G	Pl	12-16-59	---	1.5	10	200	35	20	184	
2D1	Sd	Pl	6-57	---	---	0	98	---	16	120	

37/4W- 2H1	Sd	Pl	8-22-57	---	---	24	215	---	10	160
3Q1	G,Sd	Pl	12-16-59	---	0.3	29	293	10	4	200
3R1	Sd,G	Pl	8-23-57	---	---	0	686	---	12	580
5H1	Sd	Pl	12-16-59	---	.1	48	303	8	16	212
5P2	Sd	Pl	5-22-57	---	.5	7	276	---	46	68
7B1	Sd	Pl	3-12-57	52	1.0	0	371	---	16	248
7B1	Sd	Pl	12-17-59	---	2.0	34	234	20	16	180
9B1	Sd	Pl	5-22-57	57	.8	0	359	---	10	328
10P1	Sd,G	Pl	12-17-59	---	1.5	19	234	15	8	192
11C1	Sd	Pl	6-13-57	57	.8	10	295	---	16	328
11K1	G	Pl	3-28-57	52	1.2	12	154	---	2	184
11K1	G	Pl	12-16-59	51	2.0	10	229	30	12	204
13B1	Sd	Pl	3-28-57	51	.5	2	242	---	10	252
13B1	Sd	Pl	6-18-58	56	1.5	0	386	---	8	328
13G1	Sd,G	Pl	12-17-59	---	.5	19	200	5	12	236
14P1	Sd	Pl	6-27-57	---	---	12	163	---	4	212
14P1	Sd	Pl	12-17-59	---	1.0	14	146	60	16	176
18R1	Sd	Pl	8-57	---	---	10	212	---	66	248
26A1	Sd	Pl	12-16-59	---	3.0	14	176	20	12	156
26R1	Sd	Pl	5-22-57	53	8.0	0	346	---	10	364
27C1	Sd	Pl	8-22-57	---	---	0	283	---	4	288
32J1	Sd	Pl	5-23-57	50	1.2	0	317	---	6	300
35Q1	Sd	Pl	6- 4-57	54	.1	12	98	---	30	220
38/1W- 7Q1	Sd	Pl	11-59	54	.3	0	307	55	12	268
17P1	Sd,G	Pl	11-59	54	.5	0	395	68	10	348
18D1	Sd	Pl	12-14-59	---	.1	19	200	60	12	244
18D2	Sd	Pl	12-14-59	---	.1	14	176	40	16	184
19E1	G,Sd	Pl	8-27-57	---	.3	0	320	---	320	320
19E1	G,Sd	Pl	11-59	55	.3	0	429	55	12	364
21B1	G,Sd	Pl	7-30-58	55	.2	0	454	---	4	388
28B1	G,Sd	Pl	6-57	---	.2	0	288	---	6	276
28C1	Sd,G	Pl	11-59	55	2.0	0	307	25	12	232
28K1	Sd	Pl	6-12-57	---	.9	14	151	---	8	196
28L1	Sd,G	Pl	11-59	60	.1	29	229	45	12	256
28Q1	Sd,G	Pl	6-12-57	58	.8	12	154	---	10	180
29P1	Sd	Pl	11-59	54	.1	10	278	55	12	268
31A1	Sd,G	Pl	7- 5-57	---	.3	0	156	---	64	280

Table 4.--Field chemical analyses of water from wells in La Porte County, Indiana--Continued

Well	Material	Geologic Age	Date of Collection	Temperature (°F)	Iron (Fe)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Hardness as $CaCO_3$ (calcium, magnesium)	Remarks
38/1W-33K1	Sd	Pl	8-27-57	---	0.2	0	205	---	12	240	
33K1	Sd	Pl	11-59	53	.1	38	264	55	20	320	
38/2W-12Q1	Sd	Pl	6-26-57	58	---	5	190	---	14	224	
14Q1	Sd	Pl	3-13-57	47	.3	0	234	---	---	248	
14Q3	Sd	Pl	11-59	53	.8	34	264	40	---	288	
14Q4	Sd	Pl	11-59	58	.3	29	244	50	12	264	
17Q1	Sd,G	Pl	12-15-59	---	.5	0	327	30	36	260	
18Q1	Sd	Pl	6-26-57	---	---	14	283	---	16	248	
22D1	G	Pl	3-13-57	55	.7	0	300	---	4	296	
22E1	Sd	Pl	6-26-57	---	---	0	317	---	10	317	
22E1	Sd	Pl	12-15-59	---	1.5	14	278	35	8	256	
22Q1	Sd,G	Pl	11-59	54	.8	0	434	58	24	368	
25B1	Sd,G	Pl	8-57	---	---	0	212	---	24	228	
25G1	Sd	Pl	6- 9-57	---	---	0	200	---	40	252	
25H2	Sd,G	Pl	6-12-57	57	.1	10	129	---	2	196	
25H5	Sd	Pl	7- 5-57	56	1.0	0	268	---	38	320	
31R1	Sd	Pl	12-15-59	---	.1	10	185	35	8	172	
32E1	Sd	Pl	12-15-59	---	1.0	14	215	75	12	240	
33R1	Sd	Pl	6-26-57	---	---	0	317	---	16	344	
38/3W-11K1	Sd	Pl	6-27-57	---	---	0	503	---	26	412	
11K1	Sd	Pl	12-16-59	---	4.0	38	283	15	16	260	
13B1	Sd	Pl	12-15-59	---	.5	24	244	10	8	172	
15J1	Sd	Pl	12-16-59	---	2.0	24	234	65	12	264	
17A1	Sd	Pl	12-15-59	---	.5	29	312	20	16	228	
18D1	Sd	Pl	12-15-59	50	.5	0	63	35	12	108	
22L1	Sd	Pl	12-15-59	---	1.0	14	317	10	16	220	
23A1	Sd	Pl	12-16-59	---	1.5	19	229	95	16	288	
23P1	Sd,G	Pl	12-16-59	---	1.0	14	210	10	8	164	
31G1	Sd,G	Pl	12-15-59	---	1.0	19	254	5	16	172	

38/3W-33D2	G,Sd	Pl	12-15-59	--	1.5	24	171	30	10	184	
35B1	G	Pl	12-16-59	--	.1	24	176	115	8	268	
35K1	Sd,G	Pl	12-16-59	--	1.0	14	215	10	12	172	
38/4W-13Q1	Sh	D	10- 2-56	--	---	0	771	---	632	164	IFC.
13Q1	Sh	D	6-11-57	52	3.5	65	427	---	434	80	
13Q3	Sd	Pl	6-11-57	51	7.5	0	117	---	14	108	
23J1	Sd	Pl	12-11-59	--	1.0	24	224	10	120	105	
25B1	Sd	Pl	8-57	--	---	0	195	---	---	344	
25Q1	Sd	Pl	3-57	--	.7	--	---	---	---	216	
25R1	Sd	Pl	6-11-57	--	.6	5	127	---	8	132	
25R1	Sd	Pl	12-11-59	--	.5	34	307	15	16	164	
26A1	Sd	Pl	12-11-59	--	.3	10	312	30	125	104	
26P1	Sd,G	Pl	12-10-59	--	2.0	29	346	25	108	300	
26P1	Sd,G	Pl	6-13-57	--	1.0	0	371	---	74	288	
31R2	Sd	Pl	3-13-57	52	1.0	0	390	---	22	256	
31R2	Sd	Pl	12-10-59	53	1.0	0	419	12	36	248	
33J2	Sd,G	Pl	5-22-57	58	1.0	0	422	---	32	268	
34A1	Sd	Pl	12-10-59	--	.5	38	322	105	440	376	
34J1	Sd	Pl	5-22-57	51	.1	7	46	---	2	92	
34P2	Sd	Pl	8-57	--	---	10	127	---	16	120	
35E2	Sd	Pl	12-10-59	--	.3	29	366	90	108	328	
36B2	Sd,G	Pl	3-12-57	--	---	0	376	---	134	264	
36E1	Sd,G	Pl	3-12-57	50	1.5	0	388	---	8	292	
36F1	Sd	Pl	8-57	--	---	0	232	---	88	288	
36F2	Sd	Pl	12-10-59	--	1.0	10	371	5	16	248	
36G1	Sd	Pl	12-10-59	--	1.0	0	386	50	16	240	
36J2	Sd	Pl	9-57	--	---	--	---	---	300	248	

Table 5.--Water levels in observation wells in La Porte County, Indiana (In feet below land-surface datum, except as noted. Water level: e, estimated; h, tape measurement)

La Porte 1. (37/2W-28K2). City of La Porte. NW¼SE¼ sec. 28, T. 37 N., R. 2 W. Dug public-supply water-table well in sand and gravel, diameter 50 feet, depth 25 feet. Land-surface datum is 748 feet above msl. Highest water level is 0.52 above lsd, June 24, 1950; lowest 17.30 below lsd, Aug. 23, 1947. Records available: 1942-58. Affected by pumping.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1942		Mar. 20	13.34	1944		Oct. 14	6.28
		27	14.80			21	7.60
July 4	11.90	Apr. 3	12.30	Jan. 1	5.70	28	6.90
11	12.30	10	13.30	8	6.21	Nov. 4	6.08
18	15.40	17	12.90	15	6.21	11	6.68
23	13.25	24	12.90	22	6.29	18	7.68
25	15.10	May 1	12.90	29	5.70	25	7.68
Aug. 1	12.20	8	13.60	Feb. 5	6.31	Dec. 2	7.59
8	8.80	15	12.40	12	6.28	9	7.59
15	11.50	22	11.16	19	6.29	16	7.68
22	13.40	29	12.74	26	5.60	23	8.08
29	11.12	June 5	13.06	Mar. 4	6.60	30	7.68
Sept. 5	11.06	12	13.20	11	6.46		
12	11.68	19	14.50	18	6.60	1945	
19	12.02	26	14.70	25	6.29		
26	12.00	July 3	14.80	Apr. 1	6.28	Jan. 6	7.68
Oct. 3	11.45	10	13.00	8	5.68	13	8.18
10	11.27	17	12.11	15	6.08	20	8.68
17	11.90	26	12.72	22	6.28	27	9.18
24	11.91	31	12.61	29	6.28	Feb. 3	9.68
31	12.05	Aug. 7	12.79	May 6	6.51	10	9.09
Nov. 7	12.30	14	12.71	13	5.80	17	9.06
14	11.80	21	13.50	20	4.84	24	8.68
21	12.10	28	13.60	27	6.29	Mar. 3	8.69
28	11.80	Sept. 4	12.70	June 3	7.29	10	8.28
Dec. 5	12.30	11	13.20	10	4.68	17	8.28
12	12.90	18	12.04	17	7.28	24	8.28
19	12.90	25	12.60	24	7.57	31	8.28
26	11.80	Oct. 2	13.06	July 1	10.20	Apr. 7	7.68
		9	10.60	8	12.18	14	8.28
1943		16	8.51	15	7.48	21	8.68
		25	6.61	22	7.05	28	7.68
Jan. 2	11.50	Nov. 1	7.41	29	5.48	May 5	7.68
9	11.80	6	6.70	Aug. 5	11.28	12	6.68
16	12.50	13	4.61	12	14.70	19	7.29
23	13.60	20	8.61	19	7.60	26	7.21
30	13.40	27	8.01	26	10.68	June 2	8.21
Feb. 6	12.40	Dec. 4	7.71	Sept. 2	6.63	9	8.60
13	12.10	11	5.91	9	6.28	16	8.61
20	12.30	18	5.70	16	5.91	23	8.61
27	13.50	25	6.20	23	7.08	30	8.21
Mar. 6	14.50			30	6.28	July 7	7.26
13	14.30			Oct. 7	6.68	14	8.22

Table 5.--Water levels in observation wells in La Porte County--Continued

La Porte 1--Continued

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1945		June 1	6.65	Apr. 26	8.20	Mar. 13	12.87
		8	8.70	May 3	8.21	20	11.20
July 21	10.70	15	7.68	10	7.70	27	9.28
28	7.54	22	7.24	17	7.70	Apr. 3	12.70
Aug. 4	6.18	29	7.68	24	7.68	10	12.45
11	7.45	July 6	12.22	31	4.28	17	12.37
18	7.28	13	13.70	June 7	8.70	24	10.70
25	7.30	20	14.70	14	8.70	May 1	14.95
Sept. 1	7.41	27	12.70	21	8.28	8	10.12
8	8.28	Aug. 3	10.28	28	9.48	15	9.03
15	6.30	10	9.70	July 5	12.68	22	15.20
22	6.70	17	10.70	12	12.70	29	14.53
29	6.28	24	10.90	19	7.70	June 5	13.87
Oct. 6	3.70	31	7.70	26	13.70	12	12.70
13	11.48	Sept. 7	11.66	Aug. 2	11.68	19	12.28
20	11.28	14	12.68	9	12.70	26	12.45
27	6.70	21	10.09	16	13.70	July 3	10.95
Nov. 3	7.22	28	8.20	23	17.30	10	13.70
10	6.70	Oct. 5	8.83	30	5.20	17	16.53
17	6.63	12	9.09	Sept. 6	10.31	24	12.53
Dec. 1	6.70	19	9.70	14	10.28	31	10.03
8	7.28	26	9.29	20	10.70	Aug. 7	14.70
15	7.20	Nov. 2	9.67	27	9.70	14	12.78
22	8.42	9	9.70	Oct. 4	12.28	21	14.03
29	7.01	16	9.70	11	11.70	28	12.78
1946		23	9.28	18	9.70	Sept. 4	8.53
		30	9.20	25	13.26	11	7.78
		Dec. 7	9.70	Nov. 1	13.70	18	13.53
Jan. 5	6.68	14	9.29	8	11.68	25	12.28
12	7.28	21	9.70	15	8.70	Oct. 2	10.03
19	7.20	28	9.80	22	12.68	9	8.53
26	8.12			29	11.06	16	11.03
Feb. 2	8.18	1947		Dec. 6	10.68	23	3.20
9	7.18			13	12.29	30	0.66
16	7.70	Jan. 4	9.11	20	12.28	Nov. 6	0.45
23	7.06	11	8.51	27	10.68	13	0.49
Mar. 2	7.11	18	9.09			20	0.45
9	7.41	25	9.11	1948		27	0.70
16	5.70	Feb. 1	8.70			Dec. 4	0.45
23	6.20	8	8.26	Jan. 3	8.28	11	0.54
30	5.68	15	8.70	10	11.70	18	0.62
Apr. 6	6.22	22	9.70	17	12.28	24	0.53
13	6.68	Mar. 1	9.21	24	14.70	31	0.62
20	8.32	8	11.28	31	13.72		
27	8.90	15	8.70	Feb. 2	10.70	1949	
May 4	8.11	22	9.28	14	10.03		
11	8.68	29	9.42	21	11.20	Jan. 8	0.53
18	8.41	Apr. 12	6.48	28	11.95	15	0.62
25	8.11	19	10.28	Mar. 6	9.70	22	0.53

Table 5.--Water levels in observation wells in La Porte County--Continued

La Porte 1--Continued

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1949		Dec. 17	0.76	Nov. 4	1.10	Sept. 22	2.71
		24	0.20	11	1.35	29	0.66
Jan. 27	0.29	31	0.12	18	1.50	Oct. 6	0.21
29	+0.05			25	1.25	13	0.23
Feb. 5	0.16	1950		Dec. 2	1.40	20	0.48
12	6.98			9	1.50	27	0.17
19	0.32	Jan. 7	+0.03	16	13.10	Nov. 3	0.07
26	0.07	14	0.16	23	6.15	10	+0.05
Mar. 5	+0.03	21	0.43	30	3.50	17	+0.15
12	0.22	28	0.24			24	0.51
19	0.26	Feb. 4	0.12	1951		Dec. 1	0.04
26	0.22	11	0.12			8	0.02
Apr. 2	0.07	18	0.16	Jan. 6	0.50	15	+0.02
11	0.24	25	5.20	13	8.20	22	+0.06
16	0.12	Mar. 4	4.90	20	3.20	29	0.01
23	0.16	11	1.49	27	1.16		
30	0.14	18	0.24	Feb. 3	2.60	1952	
May 7	0.20	25	0.02	10	3.62		
14	0.20	Apr. 1	0.01	17	3.54	Jan. 5	0.35
21	0.16	8	0.16	24	3.30	12	0.01
28	0.07	15	0.24	Mar. 3	3.50	19	+0.46
June 4	0.26	22	0.16	10	4.20	26	+0.20
11	0.39	29	0.08	17	4.10	Feb. 2	+0.10
18	0.28	May 6	0.21	24	5.60	9	+0.20
25	0.12	13	0.19	31	4.10	16	+0.08
July 2	0.20	20	0.30	Apr. 7	2.62	23	+0.11
9	0.28	27	0.21	14	2.30	Mar. 1	0.05
16	0.07	June 3	+0.50	21	3.40	8	0.11
23	0.28	10	0.05	28	3.30	15	0.19
30	0.18	17	+0.35	May 5	3.20	22	0.15
Aug. 6	0.18	24	+0.52	12	1.55	29	0.13
13	0.20	July 1	+0.09	19	2.82	Apr. 5	0.15
20	0.20	8	+0.11	26	3.15	12	+0.09
27	0.28	15	4.19	June 2	3.40	19	0.27
Sept. 3	0.12	22	0.20	9	3.60	26	0.15
10	+0.03	29	0.10	16	7.40	May 3	0.17
17	0.13	Aug. 5	3.50	23	4.05	10	0.23
24	+0.01	12	4.30	30	5.45	17	0.21
Oct. 1	0.20	19	1.80	July 7	4.25	24	0.19
8	0.24	26	7.65	14	4.15	31	0.07
15	0.24	Sept. 2	3.80	21	5.20	June 7	+0.05
22	0.28	9	4.40	28	3.40	14	+0.04
29	0.28	16	2.90	Aug. 4	3.70	21	0.65
Nov. 5	1.03	23	8.40	11	2.25	28	0.21
12	0.72	30	4.20	18	2.95	July 5	1.20
19	0.45	Oct. 7	8.30	25	7.25	12	0.87
26	0.59	14	1.10	Sept. 1	3.02	19	0.62
Dec. 3	0.57	21	0.80	8	3.23	26	0.90
10	0.34	28	2.85	15	3.44	Aug. 2	0.56

Table 5.--Water levels in observation wells in La Porte County--Continued

La Porte 1--Continued

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1952		June 13	1.04	July 3	1.14	May 14	1.42
		20	1.21	10	1.02	21	1.42
Aug. 9	0.00	27	1.26	17	1.00	28	1.24
16	0.11	July 4	1.30	24	1.35	June 4	2.38
23	+0.11	11	1.41	31	1.49	11	1.43
30	0.00	18	3.08	Aug. 7	1.37	18	2.24
Sept. 6	0.90	25	2.03	14	1.27	25	1.44
13	0.60	Aug. 1	2.09	21	1.00	July 2	1.15
20	+0.10	8	1.91	25	5.38	9	1.18
27	+0.06	15	1.83	28	0.02	16	0.97
Oct. 4	0.51	22	2.45	Sept. 4	1.04	25	1.33
11	0.19	29	8.81	11	1.28	31	1.29
18	0.17	Sept. 5	6.93	18	1.10	Aug. 8	0.96
25	0.16	12	0.91	25	1.22	13	1.16
Nov. 1	+0.03	19	0.95	Oct. 2	1.10	20	1.34
8	0.00	26	1.49	9	0.64	27	1.21
15	0.01	Oct. 3	0.97	16	1.18	Sept. 3	1.23
22	0.05	10	1.23	23	0.73	10	1.21
29	0.49	17	1.21	30	0.50	17	1.27
Dec. 6	0.00	24	1.32	Nov. 6	0.73	25	0.88
13	0.11	31	1.13	13	0.87	Oct. 2	0.84
20	0.05	Nov. 7	0.14	20	0.84	9	0.52
27	0.06	14	0.26	27	0.51	16	0.47
1953		21	0.12	Dec. 4	1.11	22	0.56
		28	0.20	11	0.39	30	0.53
		Dec. 5	+0.29	18	1.00	Nov. 5	0.54
Jan. 3	0.05	12	+0.19	25	0.81	19	0.93
10	0.29	19	0.87			Dec. 31	1.44
17	0.07	26	0.85	1955			
24	0.05					1956	
31	0.11	1954		Jan. 1	0.96		
Feb. 7	0.31			8	1.08	Jan. 9	1.73
14	0.02	Jan. 31	1.75	15	1.01	15	1.92
21	0.28	Feb. 28	0.66	22	1.60	22	1.87
28	0.65	Mar. 6	0.85	29	1.81	28	1.44
May 7	0.85	20	0.97	Feb. 5	1.38	Feb. 4	1.38
14	0.47	Apr. 3	1.15	12	1.49	11	1.44
21	0.66	10	1.15	19	1.59	18	1.84
28	0.15	17	0.97	26	1.40	25	1.01
Apr. 4	0.81	24	0.28	Mar. 4	0.97	Mar. 3	1.44
11	0.95	May 3	0.19	12	0.97	10	1.85
18	0.97	8	1.13	19	1.91	17	2.05
25	0.99	15	1.20	26	1.20	24	2.27
May 2	1.00	22	1.24	Apr. 2	1.58	Apr. 7	2.33
9	0.96	29	0.95	9	1.93	14	2.05
16	0.88	June 5	1.69	16	2.26	21	2.12
23	0.85	12	1.45	23	1.87	28	1.11
30	0.92	19	7.30	30	1.66	May 6	1.52
June 6	1.02	26	4.75	May 7	1.42	13	1.63

La Porte 1--Continued

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1956		1957		Sept. 9	1.03	May 5	1.09
				16	0.97	12	1.18
May 20	1.48	Jan. 7	0.78	23	1.01	19	1.22
27	1.59	14	0.81	30	1.01	26	1.08
June 3	1.57	21	0.83	Oct. 7	0.95	June 2	1.08
9	1.51	28	0.84	14	0.89	9	1.16
16	1.33	Feb. 4	0.83	21	0.90	16	1.05
30	1.39	11	0.63	28	0.99	23	1.14
July 6	1.23	18	0.75	Nov. 4	0.76	30	1.16
15	1.42	25	0.74	11	0.81	July 7	0.92
21	1.44	Mar. 4	0.77	18	0.75	14	1.11
29	1.27	11	0.89	25	0.83	21	1.15
Aug. 6	1.46	18	0.76	Dec. 2	0.94	28	1.19
13	1.09	25	0.82	9	0.97	Aug. 4	0.94
21	1.12	Apr. 1	1.04	16	1.01	11	0.81
Sept. 4	0.97	8	0.78	23	0.78	18	1.07
8	0.74	15	1.07	30	0.80	25	1.19
17	0.77	22	1.11			Sept. 1	1.21
24	0.84	29	1.11	1958		8	1.11
Oct. 1	0.97	May 6	1.32			15	1.06
8	0.60	13	1.29	Jan. 6	0.79	22	0.87
15	0.52	20	1.19	13	0.88	29	0.93
22	0.68	27	1.44	20	0.87	Oct. 6	0.82
29	0.52	June 3	1.51	27	0.77	13	0.79
Nov. 5	0.69	10	1.35	Feb. 3	0.76	20	1.41
12	0.81	17	1.42	10	0.80	27	0.65
19	0.77	24	1.22	17	0.84	Nov. 3	0.81
26	0.82	July 1	1.33	24	0.73	10	0.84
Dec. 3	0.83	8	1.07	Mar. 3	0.48	17	0.87
10	0.82	15	1.11	10	0.76	24	0.90
17	0.87	22	1.02	17	0.67	Dec. 1	0.93
24	0.73	29	1.05	24	0.89	8	0.99
31	0.77	Aug. 5	1.10	31	0.97	15	0.77
		12	0.99	Apr. 7	+0.11	22	0.91
		19	1.03	14	0.97	29	0.90
		26	1.19	21	1.01		
		Sept. 2	0.91	28	0.99		

La Porte 2. (33/3W-10Q1). State of Indiana. Kankakee State Game Preserve. SW¼SE¼ sec. 10, T. 33 N., R. 3 W. Drilled unused artesian well in sand and gravel. diameter 6 inches, reported depth 116 feet. Land-surface datum is 671 feet above msl. Recording gage installed June 11, 1953; removed Oct. 13, 1954. Highest water level is 0.34 below lsd, Apr. 8, 1950; lowest 7.52 below lsd, July 25, 1955. Records available: 1942-58.

1942		July 15	5.93	Aug. 15	6.07	Oct. 1	6.30
		23	6.20	Sept. 1	6.38	16	6.20
July 2	5.89	31	6.23	15	6.54	31	6.06

Table 5.--Water levels in observation wells in La Porte County--Continued

La Porte 2--Continued

Date	Water level
1942	
Nov. 15	5.34
Dec. 1	5.14
16	5.62
31	4.27
1943	
Jan. 15	3.71
Feb. 1	4.99
15	3.55
Mar. 1	3.84
15	4.14
Apr. 1	3.32
15	3.93
30	4.02
May 15	2.74
June 1	1.07
15	2.49
July 1	4.20
15	4.74
Aug. 1	4.58
16	5.23
Sept. 1	5.32
17	5.33
30	5.63
Oct. 15	5.93
Nov. 1	5.87
1944	
Jan. 15	5.90
Feb. 5	5.70
16	6.90
Mar. 1	4.90
Apr. 10	4.60
30	1.90
May 15	2.90
June 1	3.20
15	4.50
July 1	5.40
Aug. 1	6.30
15	6.80
Sept. 7	5.30
16	4.85
Oct. 1	6.90
Nov. 1	6.60
15	5.70
Dec. 15	6.30
1945	
Jan. 15	6.20
Feb. 1	6.20
19	6.00
Mar. 19	5.40
Apr. 1	5.40
15	4.80
May 2	4.40
June 5	4.20
Aug. 8	6.82
Sept. 14	6.20
28	5.40
Oct. 14	5.10
28	5.40
Nov. 28	5.20
Dec. 14	5.40
1946	
Jan. 14	4.00
30	4.80
Feb. 26	4.60
Sept. 6	6.84
13	6.90
20	7.05
27	7.05
Oct. 4	7.15
11	7.22
18	7.08
25	7.03
Nov. 1	6.40
8	6.47
22	6.30
Dec. 6	6.28
13	5.90
20	5.87
27	5.90
1947	
Jan. 3	5.87
10	5.88
17	5.52
24	5.45
31	5.17
Feb. 7	4.67
Feb. 14	4.65
21	5.07
28	5.29
Mar. 7	5.45
14	5.43
21	5.55
28	5.07
Apr. 4	4.52
11	4.03
19	3.86
25	3.15
May 2	3.00
11	3.40
16	3.52
23	3.29
30	3.27
June 13	3.20
20	3.55
27	4.14
July 4	4.60
11	5.10
18	5.35
25	5.68
Aug. 8	6.10
15	6.35
22	6.60
29	6.55
Sept. 1	6.30
12	6.03
19	6.10
26	5.98
Oct. 3	6.10
10	6.18
17	6.25
24	6.55
31	6.10
Nov. 7	6.00
14	5.90
21	5.60
28	5.60
Dec. 5	5.30
12	5.18
19	5.15
26	5.40
1948	
Jan. 1	5.15
9	5.05
Jan. 16	5.10
23	5.07
29	5.07
Feb. 6	5.25
20	5.10
27	4.50
Mar. 5	4.17
12	4.33
20	4.20
26	2.90
Apr. 2	2.85
9	2.90
16	3.15
23	3.20
30	4.00
May 11	3.50
14	2.80
21	2.90
June 4	4.07
11	4.50
25	4.90
July 6	4.90
16	5.60
23	5.70
30	6.80
Aug. 6	5.40
27	6.60
Sept. 3	6.70
10	6.70
17	7.00
Oct. 15	7.00
23	7.05
30	6.98
Nov. 6	6.89
13	6.40
20	6.67
27	6.66
Dec. 4	6.65
11	6.68
18	6.30
25	6.28
1949	
Jan. 1	6.09
8	5.69
Feb. 5	4.00
12	4.05
17	3.83

Table 5.--Water levels in observation wells in La Porte County--Continued

La Porte 2--Continued

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1949		Jan. 14	3.32	Dec. 16	4.63	Nov. 10	4.34
		21	2.87	23	4.82	17	3.50
Feb. 19	3.58	28	2.41	30	4.96	24	3.27
26	3.70	Feb. 4	2.49			Dec. 1	3.32
Mar. 5	3.76	11	2.69	1951		8	3.23
12	3.69	18	2.44			15	3.99
19	4.10	25	2.51	Jan. 6	4.17	22	3.65
26	4.34	Mar. 4	2.60	13	3.89	29	4.33
Apr. 2	4.34	11	2.00	20	4.10		
29	4.98	18	2.05	27	4.44	1952	
May 7	5.74	25	2.16	Feb. 3	4.41		
14	5.77	Apr. 1	1.36	10	4.37	Jan. 5	3.13
21	5.45	8	0.34	17	4.19	12	3.25
28	5.66	15	0.56	24	3.73	19	2.70
June 4	5.68	22	1.16	Mar. 3	3.58	26	2.70
11	6.61	29	1.32	10	3.89	Feb. 2	2.66
18	5.69	May 6	1.68	17	3.89	9	2.56
25	5.80	13	2.02	24	4.08	16	2.84
July 2	6.62	20	3.07	31	4.15	23	3.32
9	6.63	27	3.45	Apr. 7	4.19	Mar. 1	3.72
16	6.64	June 3	3.68	14	3.55	8	4.00
23	6.65	10	3.69	21	3.48	15	3.82
30	6.65	17	3.97	28	3.69	22	3.56
Aug. 6	6.67	24	2.64	May 5	3.89	29	3.70
13	6.67	July 1	2.87	12	3.67	Apr. 5	3.86
20	6.68	8	3.32	19	3.68	12	3.72
27	6.80	15	4.01	26	4.02	19	3.40
Sept. 3	6.70	22	3.42	June 2	4.24	26	3.34
10	6.69	29	3.67	9	4.56	May 3	3.72
17	5.94	Aug. 5	4.08	23	4.98	10	4.04
24	6.62	12	4.56	30	5.12	17	4.24
Oct. 1	6.99	19	5.00	July 7	5.42	24	4.14
8	6.63	26	5.30	14	3.08	31	3.92
15	6.55	Sept. 2	5.18	21	4.17	June 7	4.34
22	6.46	9	5.37	28	4.49	14	4.14
29	6.45	16	5.48	Aug. 4	4.87	21	4.06
Nov. 6	6.40	23	5.60	18	5.19	28	4.48
12	6.30	30	5.72	25	5.23	July 5	5.02
19	6.20	Oct. 7	5.79	Sept. 1	5.45	12	5.30
26	6.12	14	5.88	8	5.66	19	5.46
Dec. 3	6.15	21	5.93	15	5.62	Aug. 9	6.06
10	6.14	28	5.96	22	5.66	16	6.14
17	6.00	Nov. 4	5.98	29	5.66	23	6.32
24	5.01	11	5.96	Oct. 6	5.81	30	6.48
31	4.16	18	5.86	13	5.65	Sept. 6	6.64
		25	5.70	20	5.67	13	6.78
1950		Dec. 2	5.49	27	4.58	20	6.84
		9	4.60	Nov. 3	4.30	27	6.88
Jan. 6	3.70						

Table 5.--Water levels in observation wells in La Porte County--Continued

La Porte 2--Continued

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1952		Nov. 15	6.91	1955		Dec. 19	5.22
		25	6.77			26	5.23
Oct. 4	6.98	Dec. 1	6.79	Jan. 1	3.50		
11	6.92	14	6.60	10	2.60	1956	
18	6.80	15	6.62	16	2.90		
25	6.80			24	3.52	Jan. 2	5.25
Nov. 1	6.78	1954a/		31	3.68	9	5.42
8	6.76			Feb. 7	3.90	16	5.48
15	6.76	Jan. 30	h6.30	14	4.15	23	5.63
22	6.60	Feb. 2	h6.30	21	4.08	30	5.75
29	6.45	9	h6.31	28	3.48	Feb. 6	5.70
Dec. 6	6.40	15	h6.35	Mar. 7	3.18	13	5.58
13	6.34	Mar. 2	h5.15	14	3.38	20	5.34
20	6.28	9	h5.05	21	3.64	27	4.53
27	6.12	16	h5.15	28	3.52	Mar. 6	4.10
		23	h5.18	Apr. 4	3.56	12	4.00
1953a/		30	h4.26	11	3.96	19	4.24
		Apr. 1	h4.22	18	4.14	26	4.43
Jan. 1	h6.10	5	h4.22	25	3.90	Apr. 2	4.52
10	h6.06	13	h4.13	May 2	4.00	9	4.64
17	h5.90	19	h4.04	9	4.42	16	4.86
24	h5.72	May 3	h3.60	16	4.70	23	5.14
31	h5.56	10	h3.70	23	4.95	30	4.30
Feb. 7	h5.60	17	h4.90	30	4.90	May 7	3.42
14	h5.64	24	h4.70	June 6	5.10	14	2.73
21	h5.56	31	h4.90	13	4.55	21	2.74
28	h5.30	June 7	h4.70	20	4.68	28	3.22
Mar. 7	h4.94	10	h4.85	July 18	5.52	June 4	3.68
16	h4.80	14	h5.00	25	7.52	11	4.33
21	h4.40	24	h5.09	Aug. 1	6.04	18	4.66
28	h4.60	July 2	h5.54	8	6.10	28	4.87
June 11	h5.27	12	h4.80	15	6.32	July 2	5.21
July 2	h5.46	19	h5.10	22	6.45	9	5.38
17	h5.95	24	h5.50	29	6.60	16	5.60
31	6.30	Aug. 2	h5.60	Sept. 5	6.38	23	5.73
Aug. 1	6.30	9	h5.90	12	6.53	30	5.78
5	6.15	16	h6.00	19	6.61	Aug. 6	5.98
15	6.30	24	h5.94	26	6.52	13	6.15
27	6.65	30	h5.90	Oct. 3	6.68	27	6.30
Sept. 1	6.70	Sept. 6	h6.00	10	5.93	Sept. 10	6.53
15	7.00	13	h6.20	17	5.75	17	6.57
23	7.10	20	h6.30	24	5.56	24	6.73
Oct. 1	7.15	27	h6.40	31	5.60	Oct. 1	6.67
15	7.15	Oct. 13	h3.85	Nov. 14	5.30	8	6.81
21	7.25	Dec. 1	h3.15	21	5.45	15	6.81
30	6.95	13	h3.97	28	5.35	22	6.78
Nov. 1	6.95	20	h3.98	Dec. 5	5.32	29	6.68
6	7.01	27	h4.05	12	5.24	Nov. 5	6.67

a/ Daily 2 a.m. water level from recorder graph

La Porte 2--Continued

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1956		May 6	3.33	Dec. 10	4.32	June 16	4.41
		13	3.67	16	4.33	22	4.41
Nov. 12	6.58	20	3.84	23	3.33	30	4.69
19	6.51	27	4.04	30	3.11	July 7	4.95
26	6.39	June 3	4.45			14	4.76
Dec. 3	6.35	10	4.72	1958		21	4.71
10	6.30	17	4.47			26	5.06
17	6.25	24	4.65	Jan. 6	3.29	Aug. 4	4.79
24	6.18	30	4.54	13	3.68	11	4.54
31	6.13	July 15	4.96	20	4.05	18	4.39
		22	5.18	27	4.17	25	4.45
1957		28	5.37	Feb. 3	4.23	Sept. 2	4.94
		Aug. 4	5.58	10	4.48	8	5.19
Jan. 7	6.18	11	5.55	17	4.42	15	5.46
14	6.20	19	5.81	24	4.51	22	5.43
21	5.94	25	5.92	Mar. 3	3.68	29	5.56
28	5.70	Sept. 1	5.96	10	3.55	Oct. 6	5.57
Feb. 4	5.74	8	6.14	17	3.76	13	5.39
11	5.60	17	6.28	24	4.07	20	5.35
18	5.46	23	6.31	31	4.29	27	5.31
25	5.48	30	6.43	Apr. 7	4.43	Nov. 3	5.26
Mar. 4	5.56	Oct. 7	6.48	14	4.65	10	5.29
11	5.60	14	6.52	21	4.80	17	5.07
18	5.63	21	6.24	28	4.94	24	4.68
25	5.50	29	5.24	May 6	5.12	Dec. 1	4.65
Apr. 1	5.55	Nov. 4	5.18	12	5.32	8	4.69
8	4.87	12	5.00	19	5.50	15	4.59
15	4.46	18	4.25	26	5.65	22	4.66
22	4.30	25	4.18	June 2	5.70	29	4.80
29	3.30	Dec. 2	4.39	9	5.48		

La Porte 3. (36/2W-31P1). U. S. Government. SE¼SW¼ sec. 31, T. 36 N., R. 2 W. Drilled unused water-table well in sand, diameter 8 inches, reported depth 89 feet. Land-surface datum is 737.08 feet above msl. Recording gage installed Nov. 3, 1955. Highest water level is 16.25 below lsd, May 21-25, May 30-June 3, 1956; lowest 18.32 below lsd, Dec. 31, 1958. Records available: 1955-58.

(Daily highest water level from recorder graph, 1955)

Nov. 4	16.89	Nov. 12	16.92	Nov. 20	e16.98	Nov. 28	e17.06
5	16.90	13	16.92	21	e16.99	29	e17.07
6	16.90	14	16.93	22	e17.00	30	e17.08
7	16.90	15	16.94	23	e17.01	Dec. 1	e17.09
8	16.91	16	16.95	24	e17.02	2	e17.10
9	16.91	17	16.95	25	e17.03	3	e17.10
10	16.91	18	e16.97	26	e17.04	4	e17.11
11	16.92	19	e16.98	27	e17.05	5	e17.12

Table 5.--Water levels in observation wells in La Porte County--Continued

La Porte 3--Continued

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1955		Dec. 11	e17.18	Dec. 18	17.24	Dec. 25	17.31
		12	e17.19	19	17.25	26	17.32
Dec. 6	e17.13	13	e17.20	20	17.25	27	17.32
7	e17.14	14	e17.21	21	17.25	28	17.33
8	e17.15	15	17.22	22	17.28	29	17.33
9	e17.16	16	17.22	23	17.29	30	17.34
10	e17.17	17	17.23	24	17.30	31	17.34

(Daily highest water level from recorder graph, 1956)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	17.35	17.53	17.35	17.21	16.84	16.25	16.53	16.96	17.35	17.68	17.94	18.09
2	17.35	17.54	17.32	17.21	16.79	16.25	16.54	16.98	17.36	17.69	17.95	18.09
3	17.36	17.54	17.30	17.21	16.74	16.25	16.56	16.99	17.37	17.70	17.95	18.09
4	17.36	17.55	17.28	17.21	16.72	16.26	16.57	17.00	17.38	17.72	17.96	18.10
5	17.37	17.55	17.26	17.21	16.67	16.27	16.59	17.02	17.39	17.72	17.97	18.10
6	17.37	17.56	17.24	17.21	16.64	16.28	16.61	17.03	17.40	17.73	17.97	18.11
7	17.38	17.57	17.22	17.21	16.62	16.28	16.62	17.04	17.41	17.74	17.98	18.11
8	17.39	17.58	17.21	17.21	16.60	16.29	16.63	17.06	17.42	17.75	17.98	18.11
9	17.39	17.58	17.21	17.21	16.57	16.30	16.64	17.07	17.43	17.76	e17.99	18.12
10	17.40	17.59	17.20	17.21	16.54	16.30	16.65	17.08	17.44	17.77	e18.00	18.12
11	e17.41	17.59	17.19	17.21	16.47	16.31	16.67	17.09	17.45	17.78	e18.01	18.12
12	17.41	17.59	17.19	e17.21	16.38	16.32	16.69	17.11	17.46	e17.79	e18.02	18.13
13	17.42	17.60	17.19	e17.21	16.34	16.33	16.70	17.12	17.47	e17.80	e18.02	18.13
14	17.42	17.60	17.19	e17.21	16.33	16.34	16.71	17.13	17.48	e17.81	e18.03	18.13
15	17.43	17.60	17.19	e17.21	16.30	16.35	16.73	17.15	17.51	e17.82	e18.04	18.13
16	17.44	17.60	17.19	e17.21	16.30	16.37	16.75	17.15	17.52	e17.83	e18.04	18.13
17	17.44	17.60	17.19	e17.21	16.28	16.38	16.76	17.17	17.53	e17.84	18.05	18.14
18	17.45	17.60	17.19	17.21	16.27	16.39	16.77	17.18	17.54	e17.85	18.06	18.14
19	17.45	17.60	17.19	17.21	16.26	16.40	16.79	17.20	17.54	17.86	18.06	18.15
20	17.46	17.60	17.19	17.22	16.26	16.41	16.81	17.21	17.57	17.86	18.07	e18.15
21	17.47	17.60	17.19	17.22	16.25	16.41	16.81	17.22	17.57	17.87	18.05	e18.15
22	17.47	17.60	17.19	17.23	16.25	16.41	16.83	17.23	17.58	17.88	18.06	e18.16
23	17.48	17.60	17.19	17.23	16.25	16.42	16.85	17.25	17.59	17.89	18.06	e18.17
24	17.48	17.58	17.20	17.24	16.25	16.43	16.86	17.25	17.60	17.89	18.06	e18.17
25	17.49	17.52	17.20	17.25	16.25	16.44	16.87	17.27	17.61	17.90	e18.07	e18.18
26	17.49	17.45	17.20	17.26	16.26	16.45	16.89	17.28	17.62	17.91	e18.07	e18.18
27	17.50	17.42	17.20	17.26	16.26	16.46	16.90	17.29	17.64	17.91	18.07	e18.19
28	17.50	17.40	17.21	17.23	16.26	16.47	16.91	17.30	17.65	17.91	18.07	e18.19
29	17.51	17.37	17.21	17.04	16.26	-----	16.91	17.31	17.66	17.92	18.08	e18.20
30	17.52	-----	17.21	16.93	16.25	16.52	16.93	17.33	17.67	17.93	18.08	e18.20
31	17.52	-----	17.21	-----	16.25	-----	16.94	17.34	-----	17.94	18.09	e18.21

Table 5.--Water levels in observation wells in La Porte County--Continued

La Porte 3--Continued

(Daily highest water level from recorder graph, 1957)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	e18.21	18.21	18.22	18.02	17.20	17.03	17.11	17.38	17.35	e17.43	17.40	17.27
2	e18.22	18.22	18.22	18.02	17.18	17.03	17.12	17.39	17.31	e17.44	17.40	17.28
3	e18.22	18.22	18.22	17.97	17.18	17.03	17.13	17.39	17.29	e17.45	17.40	17.28
4	e18.23	18.22	18.22	17.95	17.17	17.03	17.13	17.39	17.28	17.47	17.40	17.28
5	18.23	18.22	18.23	-----	17.16	17.03	17.14	17.40	17.28	17.48	17.40	17.29
6	18.23	18.22	18.23	-----	17.15	17.04	17.14	17.41	e17.29	17.49	17.40	17.29
7	18.24	18.23	18.23	-----	17.14	17.04	17.15	17.42	e17.29	17.50	17.41	17.29
8	18.24	18.23	18.23	17.89	17.14	17.05	17.16	17.43	e17.30	17.51	17.41	17.30
9	18.24	18.23	18.24	17.85	17.14	17.05	17.17	17.44	e17.31	17.52	17.41	17.30
10	18.25	18.23	18.24	17.81	17.14	17.05	17.18	17.45	e17.31	17.53	17.41	17.30
11	18.25	18.23	18.23	17.78	e17.13	17.06	17.18	e17.45	e17.32	17.53	17.42	17.30
12	18.25	18.21	18.23	17.75	e17.13	17.06	17.19	e17.46	e17.33	17.54	17.42	17.30
13	e18.25	18.20	18.23	17.74	e17.13	17.06	17.20	17.46	17.34	17.55	17.42	17.31
14	e18.25	18.20	18.21	17.73	e17.13	17.07	17.21	17.47	17.34	17.55	17.42	17.31
15	18.25	18.19	18.19	17.72	e17.13	17.07	17.22	17.47	17.34	17.56	17.41	17.31
16	18.25	18.19	18.17	17.72	e17.13	17.07	17.23	17.47	17.34	17.57	17.37	17.31
17	18.26	e18.19	17.15	17.72	17.13	17.07	17.23	17.47	17.35	17.58	17.34	17.32
18	18.26	e18.19	18.14	17.72	17.12	17.07	17.24	17.47	17.35	17.59	17.29	17.32
19	18.26	18.19	18.12	17.72	17.11	17.07	17.25	17.47	17.35	17.59	17.28	17.25
20	18.27	18.19	18.09	17.72	17.08	17.07	17.26	17.48	17.36	17.59	17.27	17.17
21	18.27	18.19	18.07	17.70	17.05	17.07	17.27	17.48	17.36	17.60	17.27	17.10
22	e18.26	18.20	18.05	17.68	17.04	17.07	17.28	17.48	17.36	17.60	17.27	17.05
23	e18.24	18.20	18.04	17.66	17.04	17.07	17.29	17.49	17.36	17.61	17.27	17.02
24	e18.23	18.20	18.04	-----	17.03	17.07	17.30	17.50	17.36	17.55	17.27	17.00
25	18.23	18.21	18.03	17.59	17.03	17.08	17.31	17.50	17.37	17.50	17.27	16.96
26	18.22	e18.21	18.03	17.55	17.02	17.08	17.32	17.51	e17.38	17.47	17.27	16.94
27	18.21	e18.22	18.03	17.47	17.02	17.09	17.33	17.51	e17.39	17.44	17.27	16.95
28	18.21	18.22	18.02	17.35	17.02	17.10	17.34	17.52	e17.40	17.43	17.27	16.92
29	18.21	-----	18.02	17.29	17.02	17.10	17.35	17.52	e17.41	17.42	17.27	16.90
30	18.21	-----	18.02	17.23	17.02	17.11	17.36	17.45	e17.42	17.41	17.27	16.89
31	18.21	-----	18.02	-----	17.03	-----	17.37	17.39	-----	17.41	-----	16.87

(Daily highest water level from recorder graph, 1958)

1	16.87	16.86	16.81	16.68	16.89	17.23	17.44	17.65	17.59	17.79	18.00	18.18
2	16.86	16.86	16.76	16.69	16.90	17.24	17.44	17.66	17.60	17.80	18.01	18.19
3	16.86	16.87	16.74	16.70	16.91	17.24	17.45	17.66	17.60	17.81	18.01	18.19
4	16.86	16.87	16.72	16.70	16.92	17.25	17.45	e17.67	17.61	17.81	18.02	18.20
5	16.86	16.88	16.71	16.70	16.93	17.26	17.46	17.68	17.61	17.82	18.03	18.20
6	16.85	16.88	16.69	16.71	16.93	17.26	17.47	17.68	17.62	17.83	18.03	18.21
7	16.84	16.89	16.68	16.71	16.94	17.27	17.47	17.69	17.63	17.84	18.06	18.22
8	16.84	16.89	16.68	16.71	16.96	17.27	17.48	17.70	17.63	17.84	18.07	18.22
9	16.84	16.90	16.68	16.72	16.97	17.28	17.48	17.70	17.64	17.85	18.07	18.22
10	16.84	16.90	16.67	16.72	16.98	17.29	17.49	17.70	17.65	17.85	18.08	18.23

La Porte 3--Continued

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	16.84	16.91	16.67	16.73	16.99	17.30	17.51	17.69	17.66	17.86	18.09	18.23
12	16.84	16.91	16.67	16.74	17.00	17.31	17.51	17.65	17.66	17.86	18.09	18.24
13	16.84	16.92	16.66	16.75	17.00	17.31	17.51	17.64	17.67	17.87	18.09	18.24
14	16.84	16.93	16.66	16.75	17.02	17.32	17.52	17.64	17.68	17.88	18.10	18.24
15	16.84	16.93	16.66	16.75	17.03e	17.33	17.52	17.62	17.69	17.88	18.10	18.25
16	16.84	16.94	16.66	16.76	17.05e	17.34	17.53	17.61	17.69	17.89	18.11	18.25
17	16.84	16.95	16.66	16.78	17.06e	17.35	17.55	17.59	17.69	17.89	18.11	17.25
18	16.84	16.96	16.66	16.78	17.07e	17.55	17.55	17.58	17.70	17.90	18.12	18.25
19	16.84	16.96	16.66	16.79	17.08e	17.36e	17.56	17.58	17.70	17.91	18.12	18.26
20	16.84	16.98	16.66e	16.80	17.09e	17.37e	17.57	17.57	17.72	17.92	18.12	18.26
21	16.84	16.99	16.66	16.81	17.10e	17.38e	17.57	17.57	17.72	17.92	18.13	18.27
22	16.85	17.00	16.66	16.82	17.11e	17.39e	17.58	17.57	17.73	17.93	18.14	18.27
23	16.85	17.00	16.66	16.83	17.12e	17.39	17.59	17.57	17.74	17.94	18.14	18.28
24	16.85	17.01	16.66	16.84	17.14e	17.40	17.59	17.57	17.74	17.95	18.15	18.28
25	16.85	17.02	16.66	16.85	17.15e	17.41	17.60	17.57	17.75	17.96	18.15	18.29
26	16.85	17.02	16.66	16.85	17.16e	17.42	17.61	17.57	17.76	17.96	18.16	18.29
27	16.85	16.91	16.67	16.86	17.17	17.42	17.62	17.57	17.77	17.97	18.16	18.30
28	16.85	16.86	16.67	16.87	17.18	17.43	17.63	17.58	17.78	17.98	18.17	18.30
29	16.85	------	16.67	16.89	17.19	17.43	17.63	17.58	17.78	17.98	18.17	18.31
30	16.86	------	16.67	16.89	17.20	17.43	17.64	17.58	17.79	17.99	18.17	18.31
31	16.86	------	16.68	------	17.21	------	17.65	17.58	------	18.00	------	18.32

La Porte 4. (35/2W-11H1). U. S. Government. SE¼NE¼ sec. 11, T. 35 N., R. 2 W. Drilled unused artesian well in sand, diameter 8 inches, reported depth 90 feet. Land-surface datum is 688 feet above msl. Recording gage installed Nov. 3, 1955. Highest water level is 0.10e below lsd, May 1, 1957; lowest 4.50 below lsd, Dec. 13-17, 1956. Records available: 1955-57. Affected by barometric pressure.

(Daily highest water level from recorder graph, 1955)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 4	1.80	Nov. 19	2.03	Dec. 4	2.31	Dec. 19	2.53
5	1.81	20	2.05	5	2.33	20	2.55
6	1.83	21	2.07	6	2.34	21	2.56
7	1.84	22	2.08	7	2.35	22	2.57
8	1.86	23	2.10	8	2.37	23	2.59
9	1.87	24	2.12	9	2.39	24	2.60
10	1.89	25	2.13	10	e2.42	25	2.62
11	1.91	26	2.17	11	e2.43	26	2.63
12	1.92	27	2.18	12	e2.44	27	2.64
13	1.93	28	2.20	13	e2.45	28	2.65
14	1.95	29	2.22	14	e2.46	29	2.66
15	1.97	30	2.24	15	2.47	30	2.67
16	1.98	Dec. 1	2.25	16	2.49	31	2.68
17	2.00	2	2.28	17	2.50		
18	2.01	3	2.30	18	2.52		

La Porte 4--Continued

(Daily highest water level from recorder graph, 1956)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.70	3.06	2.12	2.24	----	----	2.31	3.03	3.63	4.08	4.38	e4.49
2	2.71	3.07	2.12	2.25	----	----	2.36	3.06	3.64	4.09	4.38	e4.49
3	2.73	3.08	2.12	2.26	0.78	----	2.39	3.07	3.66	4.10	4.38	e4.50
4	2.73	----	2.12	----	0.79	----	2.43	3.10	3.68	4.12	4.39	e4.50
5	----	3.09	2.13	----	0.81	----	2.45	3.12	3.69	4.14	4.39	e4.50
6	2.76	3.10	e2.06	2.28	0.80	----	----	3.15	3.70	4.16	4.40	e4.50
7	2.78	3.11	e2.02	2.28	0.80	1.57	2.48	e3.17	3.71	4.17	4.40	e4.50
8	2.79	3.12	2.01	2.29	0.80	1.63	2.50	e3.19	3.73	4.18	4.41	e4.50
9	2.80	3.13	2.01	2.30	0.74	1.69	2.53	3.23	3.74	4.19	4.41	e4.50
10	2.81	3.14	2.01	2.31	----	1.82	2.56	3.25	3.77	4.20	4.41	e4.50
11	2.83	3.14	2.01	2.32	----	1.88	2.59	3.27	3.78	4.22	4.41	e4.50
12	2.84	3.14	2.01	2.34	----	1.94	2.62	3.30	3.80	4.22	4.42	e4.50
13	2.85	3.14	2.01	2.34	----	2.00	2.65	3.32	3.81	4.23	4.43	4.50
14	2.86	3.14	2.02	2.35	----	2.05	2.68	3.33	3.83	4.24	4.43	4.50
15	2.87	3.14	2.02	2.36	----	2.09	2.71	3.35	3.84	4.25	4.43	4.50
16	2.88	3.15	2.03	2.37	----	2.12	2.73	3.36	3.86	4.26	4.43	4.50
17	2.89	3.15	2.04	2.39	----	2.96	2.75	3.38	3.88	4.27	e4.43	4.50
18	2.91	3.01	2.04	2.41	----	1.96	2.78	3.40	3.89	4.28	e4.43	4.49
19	2.92	2.87	2.06	2.43	----	1.96	2.80	3.41	3.90	4.29	e4.44	4.49
20	2.93	2.87	2.07	2.44	----	1.97	2.82	3.43	3.92	4.30	e4.44	4.49
21	2.94	2.87	2.08	2.46	----	1.95	2.83	3.44	3.94	4.31	e4.44	4.48
22	2.95	2.87	2.10	2.48	----	1.98	2.85	3.46	3.95	4.32	e4.45	4.48
23	2.96	2.87	2.11	2.49	----	2.00	2.86	3.48	3.96	4.32	e4.45	4.4
24	2.97	2.87	2.13	2.50	----	2.03	2.87	3.50	3.98	4.33	e4.46	4.46
25	2.98	2.12	2.15	2.53	----	2.03	2.89	3.52	3.99	4.34	e4.46	4.46
26	3.00	2.12	2.17	2.60	----	2.04	2.90	3.53	4.00	4.34	e4.46	4.45
27	3.01	2.12	2.18	----	----	2.06	2.92	3.55	4.02	4.37	e4.47	4.44
28	3.02	2.12	2.20	----	----	2.14	2.94	3.56	4.03	e4.37	e4.48	4.44
29	3.03	2.12	2.21	----	----	2.22	2.96	3.58	4.05	e4.37	e4.48	4.43
30	3.04	----	2.22	----	----	2.27	2.98	3.60	4.06	e4.38	e4.49	4.43
31	3.05	----	2.23	----		----	3.00	3.61	----	e4.38	----	----

(Daily highest water level from recorder graph, 1957)

1	4.42	3.83	e3.56	3.25	e0.10	1.30	----	----	----	----	----	----
2	4.42	3.83	e3.56	3.22	e0.17	1.34	----	----	----	----	----	----
3	4.42	3.83	e3.56	2.87	e0.24	1.38	----	----	----	----	----	----
4	4.42	3.83	e3.57	2.54	e0.31	1.42	----	----	----	----	----	----
5	4.42	3.83	e3.57	e2.30	e0.38	1.45	----	----	----	----	----	----
6	4.42	3.84	e3.57	e2.24	e0.45	1.49	----	----	----	----	h2.56	----
7	----	3.84	3.57	e2.07	e0.51	----	----	----	----	----	----	----
8	----	3.65	3.58	e1.92	e0.58	----	----	----	----	----	----	----
9	----	3.58	3.58	e1.92	0.66	----	----	----	----	----	----	----
10	----	3.58	3.58	e1.92	0.74	----	----	----	----	----	----	----
11	----	3.57	3.58	1.92	0.80	----	----	----	----	----	----	----
12	----	3.56	3.59	1.92	0.86	----	----	----	----	----	----	----

La Porte 4--Continued

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
13	-----	3.56	3.59	1.92	0.90	-----	-----	-----	-----	-----	-----	-----
14	-----	3.56	3.59	1.92	0.92	-----	-----	-----	-----	-----	-----	-----
15	-----	3.56	3.59	1.92	0.93	-----	-----	-----	-----	-----	-----	-----
16	-----	3.56	3.59	1.93	0.94	-----	-----	-----	-----	-----	-----	-----
17	-----	3.56	3.59	1.93	0.96	-----	-----	-----	-----	-----	-----	-----
18	-----	3.56	3.54	1.94	0.99	-----	-----	-----	-----	-----	-----	-----
19	-----	3.56	3.36	1.94	1.01	-----	-----	-----	-----	-----	-----	-----
20	-----	3.56	3.34	1.89	1.02	-----	-----	-----	-----	-----	-----	-----
21	-----	3.56	3.31	1.89	1.03	-----	-----	-----	-----	-----	-----	-----
22	-----	3.56	3.31	1.77	1.03	-----	-----	-----	-----	-----	-----	-----
23	-----	3.56	3.31	1.65	1.04	-----	-----	-----	-----	-----	-----	-----
24	-----	3.56	3.31	1.57	1.06	-----	-----	-----	-----	-----	-----	-----
25	3.83	3.56	3.31	1.05	1.08	-----	-----	-----	-----	-----	-----	-----
26	3.83	e3.56	3.31	-----	1.10	-----	-----	-----	-----	-----	-----	-----
27	3.83	e3.56	3.31	-----	1.12	-----	-----	-----	-----	-----	-----	-----
28	3.83	e3.56	3.31	-----	1.16	-----	-----	-----	-----	-----	-----	-----
29	3.83	-----	3.31	-----	1.19	-----	-----	-----	-----	-----	-----	-----
30	3.83	-----	3.31	-----	1.23	-----	-----	-----	-----	-----	-----	-----
31	3.83	-----	3.31	-----	1.26	-----	-----	-----	-----	-----	-----	-----

La Porte 5. (36/2W-32K2). U. S. Government. NW¼SE¼ sec. 32, T. 36 N., R. 2 W. Drilled unused water-table well in sand, diameter 8 inches, reported depth 80 feet. Land-surface datum is 741 feet above msl. Recording gage installed Dec. 1, 1955. Highest water level is 16.44 below lsd, June 21, 1956; lowest 19.48 below lsd, Apr. 14, 15, 1957. Records available: 1955-57. Affected by barometric pressure.

(Daily highest water level from recorder graph, 1955)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Dec. 1	17.11	Dec. 5	17.15	Dec. 23	17.32	Dec. 27	17.38
2	17.10	6	17.14	24	17.34	29	17.40
3	17.10	7	17.13	25	17.36	30	17.42
4	17.11	22	17.30	26	17.38	31	17.41

(Daily highest water level from recorder graph, 1956)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	17.42	17.69	17.67	17.61	17.69	16.57	16.53	16.88	17.23	17.59	17.96e	18.30
2	17.43	17.69	17.66	17.60	17.64	16.55	16.55	16.89	17.25	17.60	17.97e	18.31
3	17.45	17.71	17.65	17.60	17.57	16.54	16.57	16.90	17.26	17.61	17.99e	18.32
4	17.46	-----	17.65	-----	17.55	-----	16.58	16.90	17.27	17.62	18.00e	18.33
5	-----	17.70	17.62	17.63	17.50	-----	16.60	16.91	17.28	17.63	18.01e	18.34
6	17.47	17.71	17.60	17.62	17.46	-----	16.61	16.92	17.29	17.65	18.02e	18.35

Table 5.--Water levels in observation wells in La Porte County--Continued

La Porte 5--Continued

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
7	17.48	17.71	17.59	17.62	17.43	16.48	16.59	-----	17.31	17.66	18.03	18.35
8	17.49	17.73	17.63	17.63	e17.39	16.47	16.57	-----	17.33	17.67	18.04	18.37
9	17.49	17.75	17.63	17.67	-----	16.47	16.60	16.98	17.35	17.69	18.06	18.38
10	17.50	17.75	17.61	17.68	17.32	16.46	16.64	16.99	17.36	17.70	18.07	18.38
11	17.51	17.76	17.63	17.68	17.28	16.46	16.65	17.00	17.36	17.72	18.07	18.38
12	17.52	17.75	17.63	17.68	17.25	16.45	16.66	17.01	17.37	17.72	18.08	18.39
13	17.53	17.76	17.61	17.69	17.21	16.45	16.65	17.02	17.38	17.73	18.09	18.40
14	17.53	17.78	17.61	17.66	17.18	16.45	16.69	17.03	17.39	17.75	18.10	18.41
15	17.53	17.78	17.61	17.67	17.15	16.45	16.68	17.05	17.40	17.76	18.12	18.42
16	17.53	17.80	17.60	17.68	17.11	16.45	16.69	17.05	17.41	17.77	18.13	18.43
17	17.55	17.78	17.59	17.71	17.08	16.45	16.71	17.06	17.43	17.78	18.15	18.44
18	17.57	17.79	17.59	17.72	17.04	16.45	16.73	17.07	17.45	17.79	18.16	18.46
19	17.57	17.80	17.62	17.75	17.00	16.45	16.74	17.09	17.45	17.80	18.16	18.47
20	17.58	17.82	17.62	17.76	16.94	16.45	16.75	17.10	17.46	17.81	18.15	18.48
21	17.58	17.82	17.61	17.74	16.89	16.44	16.76	17.12	17.48	17.82	18.18	18.48
22	17.60	17.83	17.60	17.75	16.85	16.45	16.77	17.12	17.50	17.83	18.19	18.50
23	17.60	17.84	17.59	17.77	16.83	16.46	16.79	17.12	17.50	17.84	18.20	18.51
24	17.62	17.80	17.60	17.79	16.79	16.46	16.79	17.15	17.51	17.86	18.21	18.52
25	17.62	17.76	17.59	17.78	16.75	16.49	16.80	17.16	17.52	17.88	18.21	18.53
26	17.64	17.78	17.59	17.78	16.71	16.47	16.81	17.17	17.54	17.89	18.24	18.54
27	17.64	17.74	17.59	17.77	16.68	16.50	16.82	17.17	17.55	17.90	18.25	18.55
28	17.65	17.73	17.60	17.75	16.66	16.52	16.83	17.18	17.55	17.90	18.25	18.55
29	17.65	17.72	17.60	17.74	16.62	16.54	16.85	17.19	17.57	17.92	18.27	18.57
30	17.67	-----	17.61	17.76	16.60	16.53	16.86	17.20	17.59	17.93	18.28	18.58
31	17.69	-----	17.63	-----	16.59	-----	16.86	17.22	-----	17.94	18.29	18.59

(Daily highest water level from recorder graph, 1957)

Day	Jan.	Feb.	Mar.	Apr.	May	June
1	-----	18.88	e19.13	19.40	19.27	-----
2	-----	18.89	e19.14	19.41	19.23	-----
3	-----	18.90	e19.14	19.42	19.17	-----
4	18.64	18.91	e19.45	19.42	19.14	-----
5	18.65	18.92	e19.16	19.43	19.10	-----
6	18.65	18.93	e19.17	19.44	19.07	-----
7	e18.65	18.94	19.21	19.44	19.03	-----
8	e18.66	18.95	19.22	-----	-----	-----
9	e18.67	18.95	19.23	-----	18.98	-----
10	e18.69	18.96	19.24	e19.46	18.95	-----
11	e18.70	18.97	19.24	19.46	18.93	-----
12	e18.71	18.98	19.25	19.47	-----	-----
13	e18.72	18.99	19.26	19.47	-----	-----
14	e18.73	19.00	19.27	19.47	-----	-----
15	e18.74	19.00	19.28	19.47	-----	-----
16	e18.75	19.01	19.29	19.47	-----	-----
17	e18.76	19.02	19.29	19.47	-----	-----

La Porte 5--Continued

Day	Jan.	Feb.	Mar.	Apr.	May	June
18	e18.77	19.03	19.30	19.47	-----	-----
19	e18.78	19.04	19.31	19.46	-----	-----
20	e18.79	19.05	19.32	19.46	-----	-----
21	e18.80	19.06	19.33	19.46	-----	-----
22	e18.81	19.08	19.33	19.46	-----	-----
23	e18.82	19.08	19.34	19.46	-----	-----
24	e18.83	19.09	19.35	19.45	-----	-----
25	e18.83	19.09	19.35	19.45	-----	-----
26	18.83	19.11	19.36	19.44	-----	-----
27	18.84	e19.11	19.37	19.43	-----	-----
28	18.85	e19.12	19.38	19.41	-----	-----
29	18.85	-----	19.39	19.37	-----	-----
30	18.87	-----	19.39	19.32	-----	-----
31	18.87	-----	19.40	-----	-----	-----

La Porte 6. (37/4W-16R1). Coolspring Township School. SE¼SE¼ sec. 16, T. 37 N., R. 4 W. Drilled unused artesian well in gravel, diameter 6 inches, reported depth 62 feet. Land-surface datum is 655.64 feet above msl. Highest water level is 5.80 above lsd, June 1, 1956; lowest 2.43 below lsd, Jan. 10, 1958. Records available: 1956-58. Affected by nearby pumping.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1956		Dec. 3	+4.58	Apr. 19	+3.91	Sept. 13	+3.38
		11	+4.60	26	+3.91	20	+3.38
May 20	+4.90	18	+4.67	May 1	+3.84	25	+3.38
June 1	+5.80	24	+4.74	9	+3.78	Oct. 4	+3.39
15	+5.70			17	+3.73	11	+3.35
29	+5.60	1957		24	+3.70	18	+3.29
July 9	+5.40			31	+3.67	25	+3.28
20	+5.20	Jan. 2	+4.67	June 7	+3.63	Nov. 1	+3.27
31	+5.20	10	+4.59	14	+3.61	8	+3.27
Aug. 15	+5.10	18	+4.45	21	+3.57	15	+3.52
30	+5.00	25	+4.39	28	+3.55	22	+3.50
Sept. 11	+5.00	Feb. 7	+4.30	July 5	+3.52	29	+2.49
28	+4.94	14	+4.18	12	+3.50	Dec. 6	+2.49
Oct. 5	+4.82	22	+4.15	19	+3.47	13	+2.48
12	+4.89	28	+4.11	26	+3.45	20	+2.48
19	+5.32	Mar. 7	+4.10	Aug. 2	+3.42	31	+2.48
29	+4.75	15	+4.06	9	+3.41		
Nov. 5	+4.75	22	+4.01	16	+3.40	1958	
12	+4.71	29	+3.97	22	+3.40		
20	+4.67	Apr. 5	+3.96	29	+3.40	Jan. 10	+2.43
27	+4.64	12	+3.94	Sept. 6	+3.39		

La Porte 7. (34/3W-13C4). Pennsylvanian Railroad Co. NE¼NW¼ sec. 13, T. 34 N., R. 3 W. Drilled unused water-table well in sand and gravel, diameter 8 inches, reported depth 76 feet. Land-surface datum is about 680 feet above msl. Highest water level is 3.90 below lsd, Apr. 29, 1957; lowest 8.16 below lsd, Oct. 1, 8, 1956. Records available: 1956-58.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1956		Jan. 14	7.80	Aug. 26	7.59	Mar. 17	6.46
		21	7.74	Sept. 2	7.39	24	6.76
July 12	7.44	28	7.16	9	7.63	31	6.87
16	7.47	Feb. 4	7.37	16	7.71	Apr. 7	6.80
23	7.50	11	7.01	23	7.78	14	6.90
30	7.60	18	7.17	30	7.83	21	7.00
Aug. 3	7.67	25	7.33	Oct. 7	7.87	28	7.08
13	7.87	Mar. 4	7.42	14	7.87	May 5	7.19
20	7.75	11	7.44	21	7.70	12	7.27
27	7.89	18	7.39	28	6.24	19	7.30
Sept. 3	7.98	25	7.21	Nov. 4	7.00	26	7.41
10	8.07	Apr. 1	7.30	11	6.99	June 2	7.45
17	8.08	8	6.24	18	5.83	9	5.72
24	8.12	15	6.55	25	6.61	16	5.25
Oct. 1	8.16	22	6.34	Dec. 2	6.87	23	6.25
8	8.16	29	3.90	9	6.73	30	6.76
15	8.14	May 6	5.76	16	6.55	July 7	7.08
22	8.11	13	5.40	23	4.93	14	6.48
29	8.07	20	6.20	30	5.43	21	6.90
Nov. 5	8.06	27	6.57			28	7.18
12	8.03	June 3	6.79	1958		Aug. 4	6.54
19	8.04	10	6.94			11	6.53
26	7.97	17	6.99	Jan. 6	6.06	18	7.00
Dec. 3	7.95	24	7.08	13	6.62	25	7.11
10	7.94	July 1	6.59	20	6.82	Sept. 1	7.22
17	7.92	8	6.94	27	6.80	8	7.41
24	7.89	15	6.88	Feb. 3	6.91	15	7.48
31	7.87	22	7.26	10	6.97	22	7.39
		29	7.34	17	6.88	29	7.82
1957		Aug. 5	7.47	24	6.33	Oct. 6	7.82
		12	6.97	Mar. 3	4.86	13	7.88
Jan. 7	7.83	19	7.43	10	5.66	20	7.91

PUBLICATIONS OF COOPERATIVE GROUND-WATER PROGRAM

Report

Ground-water resources of the Indianapolis area, Marion County, Ind. C. L. McGuinness. Ind. Dept. Conserv., Div. Geology. 1943.

Bulletins

No. 1 Memorandum concerning a pumping test at Gas City, Ind. J. G. Ferris. Ind. Dept. Conserv., Div. Water Resources. 1945.

2 A preliminary report of the ground-water levels of the State based on records of twenty-six observation wells for which long time records are available. Anonymous. Ind. Dept. Conserv., Div. Water Resources. 1946 (Out of print).

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4 Ground-water resources of Boone County, Ind. E. A. Brown. Ind. Dept. Conserv., Div. Water Resources. 1949.

5 Ground-water resources of Noble County, Ind. R. W. Stallman and F. H. Klaer, Jr. Ind. Dept. Conserv., Div. Water Resources. 1950.

7 Water-level records of Indiana. Anonymous. Ind. Dept. Conserv., Div. Water Resources. 1956.

8 Ground-water resources of Tippecanoe County, Ind.: Appendix, Basic Data. J. S. Rosenshein and O. J. Cosner. Ind. Dept. Conserv., Div. Water Resources. 1956.

8 Ground-water resources of Tippecanoe County, Ind. J. S. Rosenshein. Ind. Dept. Conserv., Div. Water Resources. 1958.

9 Ground-water resources of Adams County, Ind. F. A. Watkins, Jr., and P. E. Ward. Ind. Dept. Conserv., Div. Water Resources. 1962.

10 Ground-water resources of Northwestern Ind., Preliminary Report: Lake County. J. S. Rosenshein. Ind. Dept. Conserv., Div. Water Resources. 1961.

11 Ground-water resources of West-Central Ind., Preliminary Report: Greene County. F. A. Watkins, Jr., and D. G. Jordan. Ind. Dept. Conserv., Div. Water Resources. 1961.

12 Ground-water resources of Northwestern Ind., Preliminary Report: Porter County. J. S. Rosenshein. Ind. Dept. Conserv., Div. Water Resources. 1962.

13 Ground-water resources of Northwestern Ind., Preliminary Report: La Porte County. J. S. Rosenshein and J. D. Hunn. Ind. Dept. Conserv., Div. Water Resources. 1962.

INDEX

STATE OF INDIANA
INDIANA DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

PREPARED BY THE
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BULLETIN 13. PLATE I

MAP OF LA PORTE COUNTY, INDIANA SHOWING LOCATION OF WELLS, SPRINGS, AND TEST HOLES

BY J. S. ROSENSHEIN AND J. D. MUNN
1962

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

EXPLANATION

- A1 — Water well or test hole
- H1 — Observation well
- E2 — Spring
- P1 — Structure boring for bridge or foundation
- R1 — Oil or gas exploration well

DIAGRAM OF TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

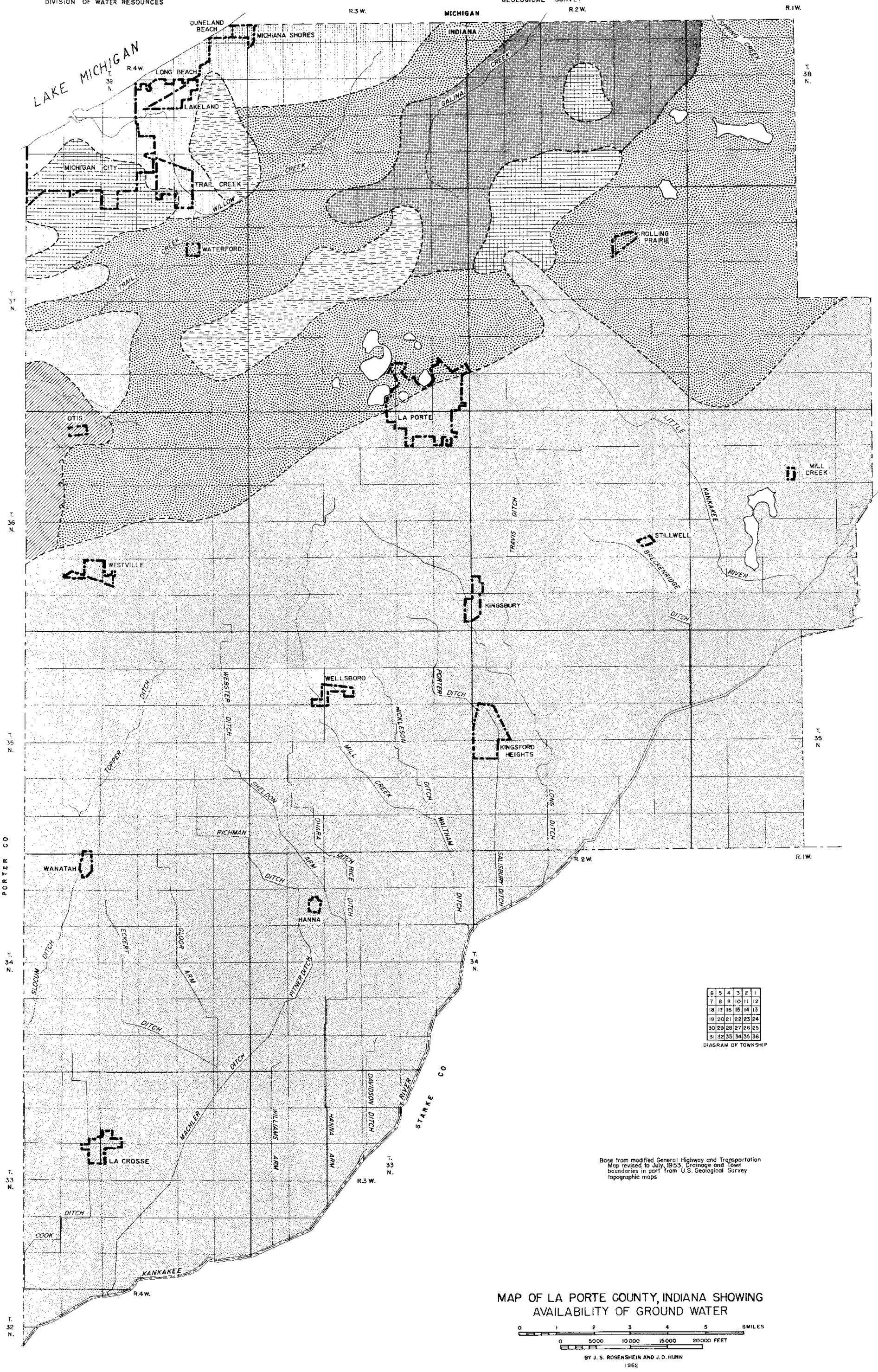
SECTION LETTER SYMBOLS IN WELL-NUMBERING SYSTEM

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

STATE OF INDIANA
INDIANA DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

PREPARED BY THE
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BULLETIN 13. PLATE 2



EXPLANATION

Production from sand

Well depths generally more than 25 feet and less than 50 feet. Some wells deeper. Locally water supplies difficult to obtain, especially where shallow sands absent or thin over thick clay overlying bedrock. Water in shallow sands subject to pollution in heavily urbanized areas. Yields adequate for domestic use

Production from glaciofluvial sand and gravel

Well depths generally more than 30 feet and less than 80 feet. Yields adequate to more than adequate for domestic use. Larger yields possible

Depths of domestic wells generally less than 50 feet. Industrial and public-supply wells generally deeper. Yields adequate to more than adequate for domestic use. Large yields possible

Well depths generally more than 50 feet and less than 100 feet. Shallower production possible locally. Yields adequate to more than adequate for domestic use. Larger yields possible

Well depths generally more than 70 feet and less than 150 feet. Shallower production possible locally. Yields adequate to more than adequate for domestic use. Large yields possible locally

Well depths generally more than 100 feet and less than 150 feet. Yields adequate to more than adequate for domestic use. Larger yields possible

Well depths generally more than 100 feet and less than 200 feet. Yields adequate to more than adequate for domestic use. Large yields possible

Boundary approximate

Boundary uncertain

6	5	4	3	2	1	
7	8	9	10	11	12	
18	17	16	15	14	13	
19	20	21	22	23	24	
30	29	28	27	26	25	
31	32	33	34	35	36	

DIAGRAM OF TOWNSHIP

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

MAP OF LA PORTE COUNTY, INDIANA SHOWING AVAILABILITY OF GROUND WATER

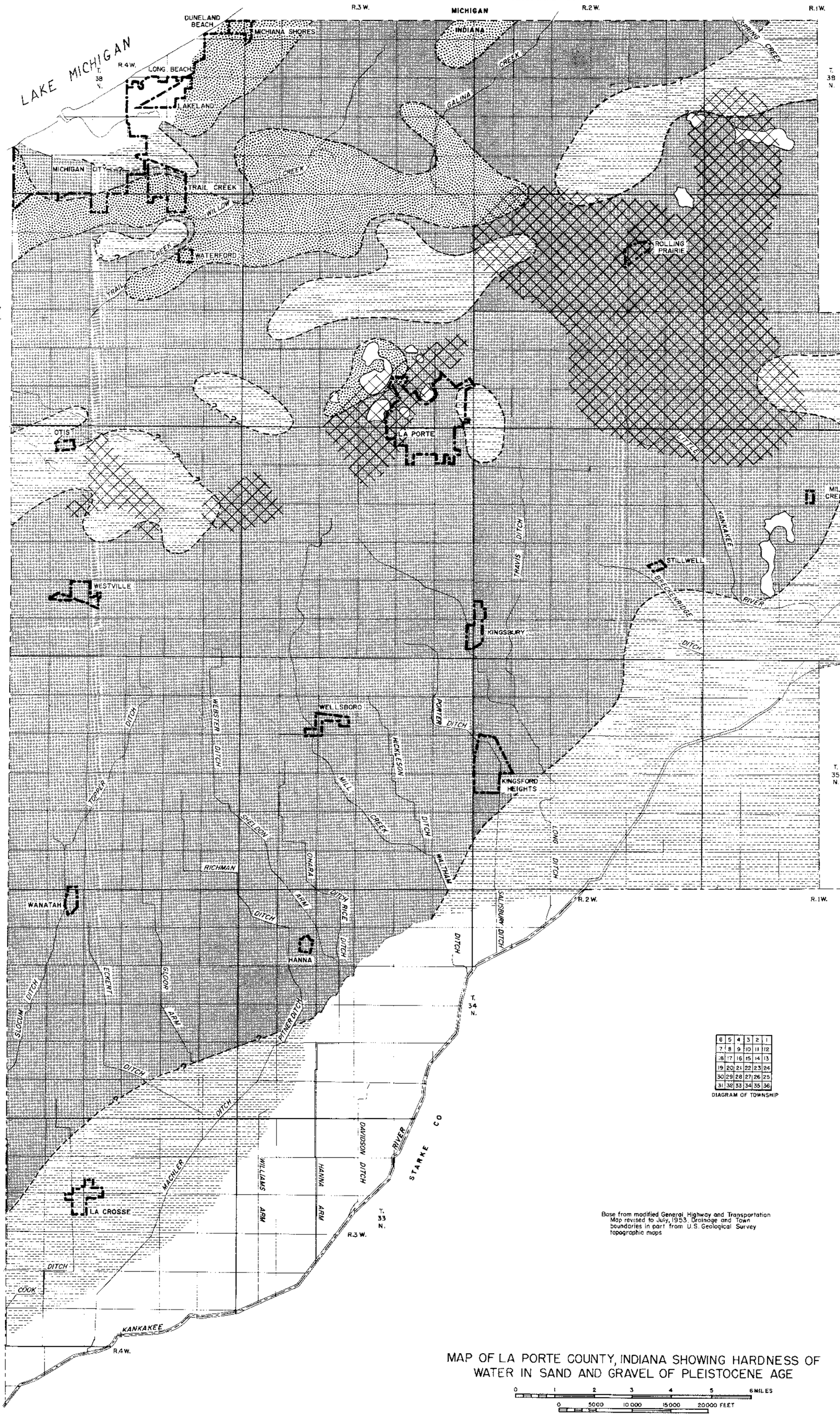
0 1 2 3 4 5 6 MILES
0 5000 10000 15000 20000 FEET

BY J. S. ROSENSHEIN AND J. D. HUNN
1962

STATE OF INDIANA
INDIANA DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

PREPARED BY THE
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BULLETIN 13. PLATE 3



EXPLANATION

Hardness less than 200 ppm

Hardness 200 to 300 ppm

Hardness more than 300 ppm

Iron content generally less than 0.3 ppm

Data not sufficient to show distribution of hardness

Boundary approximate

Boundary uncertain

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

DIAGRAM OF TOWNSHIP

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

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

0 1 2 3 4 5 6 MILES

0 5000 10 000 15000 20000 FEET

BY J. S. ROSENSHEIN AND J. D. HUNN

1962