

STATE OF INDIANA
INDIANA DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

BULLETIN NO. 15

GROUND-WATER RESOURCES
OF NORTHWESTERN INDIANA

Preliminary Report: St. Joseph County



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

1962

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Donald E. Foltz, Director

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Charles H. Bechert, Director

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BY

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GROUND-WATER RESOURCES OF NORTHWESTERN INDIANA

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ABSTRACT

St. Joseph County, in northwestern Indiana, has an area of about 468 square miles. Glaciofluvial sand and gravel of Pleistocene age is the chief source of ground water for domestic and stock, industrial, and public supplies. Wells that tap this source generally are less than 200 feet deep and yield from 5 to more than 2,000 gpm. The underlying bedrock is not used as a source of ground water. However, the bedrock of Devonian and Devonian and Mississippian(?) age is a potential source of water, although quality and quantity available is uncertain. Field chemical analyses show that the hardness of water from the glaciofluvial sand and gravel is generally greater than 200 ppm and less than 500 ppm. In much of the county the concentration of iron exceeds maximum concentration recommended in the U. S. Public Health Service drinking-water standards for iron and manganese together. However, there are sizable areas where this standard is not exceeded.

This preliminary report contains tabulated records of about 1,850 wells and test holes giving information about well construction, water level, condition of occurrence, and characteristics of water-bearing material; selected logs for about 710 wells and test holes giving driller's description of material penetrated and authors' interpretation of their geologic age; results of 426 field chemical analyses giving hardness of water and the bicarbonate, carbonate, chloride, iron, and sulfate content; and water levels in 24 observation wells indicating the magnitude of short-term and long-term water-level fluctuations in the unconsolidated rock. 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 St. Joseph County shows the location of each well or test hole listed in this report. Additional maps show the availability of ground water in the county and quality of water in the unconsolidated rocks of Pleistocene age with respect to the hardness and iron content of the ground water.

INTRODUCTION

Purpose and Scope

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

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

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

Location and Areal Extent

St. Joseph County is in the northwestern part of Indiana (fig. 1). The county is rectangular and includes about 468 square miles. It is bounded on the north by the State of Michigan, on the south by Marshall and Starke Counties, on the west by La Porte County, and on the east by Elkhart County.

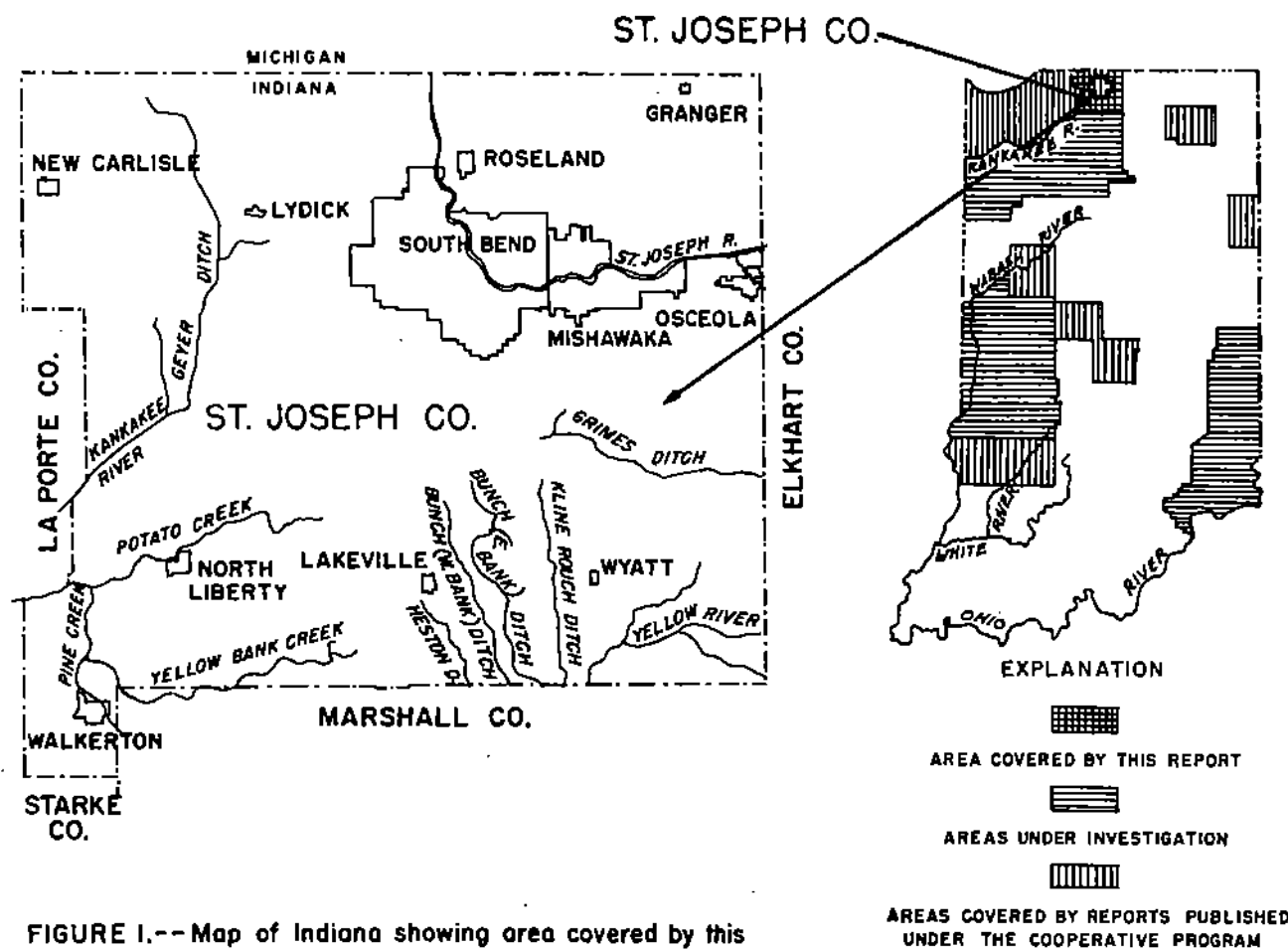


FIGURE 1.-- Map of Indiana showing area covered by this report, areas under investigation and areas covered by reports published under the cooperative program.

SEE PAGE 315 FOR LIST OF PUBLISHED REPORTS

Well-Numbering System

A numbering system is used to locate and identify the wells and test holes in this report. The number that is assigned each well indicates its location according to the official rectangular public-land survey. As wells in this report are east and west of the second principle meridian, the letter "W" is included for ranges west of the meridian. No letter is included for ranges east of the second principle meridian. For example, in the number for Well 37/1W-24G1 the numbers preceeding the hyphen indicates that the well is in T. 37 N., R. 1 W. The first number after the hyphen indicates the section in which the well is located. Each quarter-quarter section (40-acre tract) within a section is assigned a letter symbol as shown on Figure 2. Within the quarter-quarter section the wells are numbered consecutively. Therefore, Well 24G1 is in the SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 24, T. 37 N., R. 1 W.

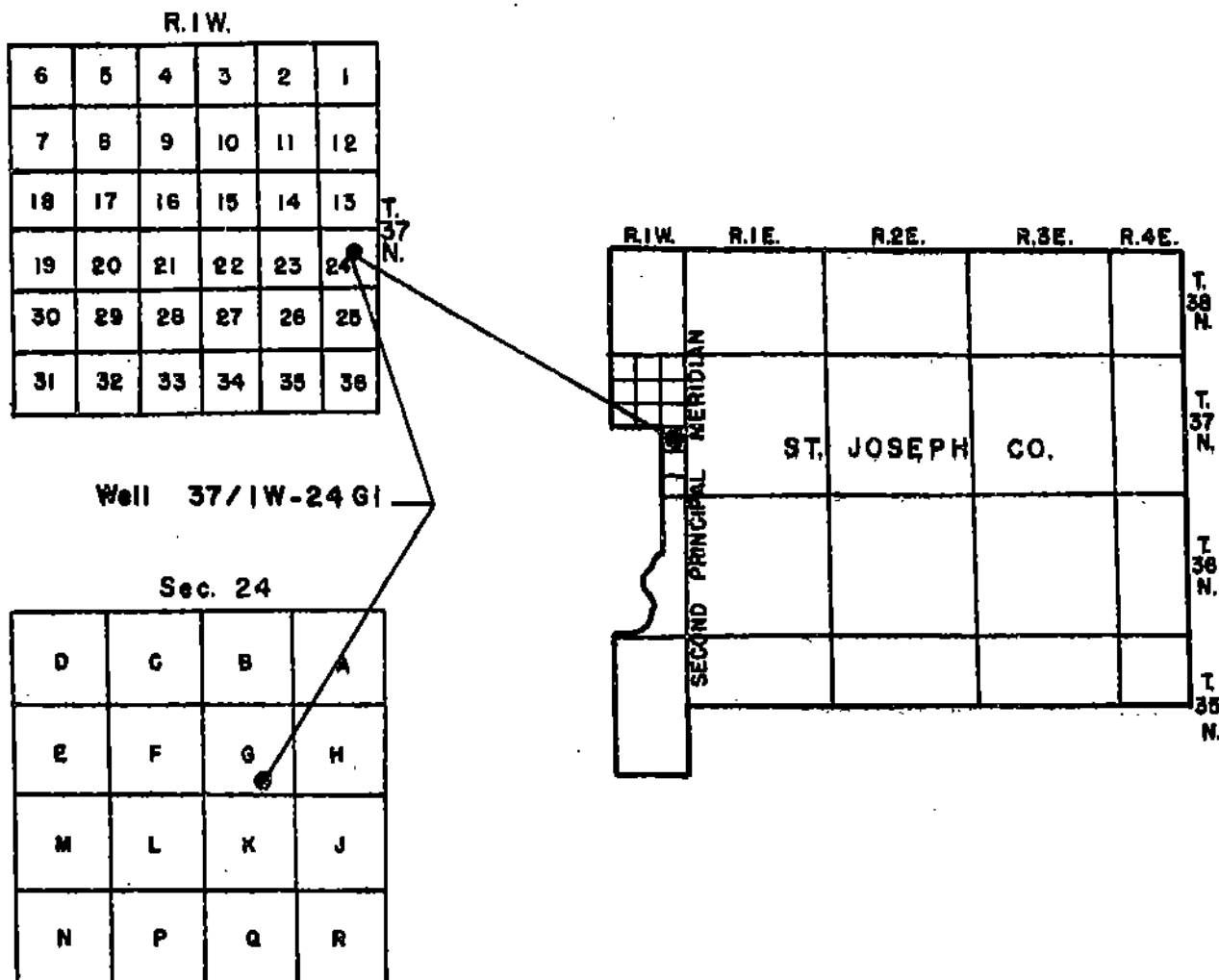


Figure 2.— Sketch showing well-numbering system.

Acknowledgments

The authors thank all persons who contributed time, information, and assistance during the collection, tabulation, and processing of data for this report. R. J. Vig, formerly of the Geological Survey, and W. J. Steen and

H. C. Kost of the Indiana Department of Conservation assisted in processing the data in the field. G. F. Westinghouse of the Topographic Division of the Geological Survey provided the elevations that were 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 also 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 from drillers, water-works superintendents, owners, and others. The well records obtained from the drillers were of two types--written records and reports from memory. Tentative driller's locations were checked against the property records in the County Courthouse to verify the location, to locate the property, and to obtain the name of the current property owner. Discrepancies between driller's location and the location of property shown in the plat books were corrected. The locations of wells were checked further in the field if major discrepancies existed between the driller's location and the property record in the plat books, if the location given by the driller could not be verified from county records, or if the verified location was not sufficiently accurate to be used.

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

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

Observation wells were established 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 St. Joseph County are of Ordovician age. These rocks consist of dolomite, dolomitic limestone, and shale and are overlain by dolomitic limestone, shale, and dolomite of Silurian age. The rocks of Ordovician and Silurian age are not used as a source of water supply in the county because of their depth and the highly mineralized water which they contain.

The rocks of Silurian age are overlain by dolomite and 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. The rocks of Devonian and Mississippian(?) age grade upward into shale of Mississippian age which is overlain locally by thin limestone. Although these limestones and shales of Devonian and Mississippian age are not used as a source of water in St. Joseph County, they are a potential source of water, and the quality and quantity available are uncertain.

The bedrock is overlain by unconsolidated glacial drift of Pleistocene age. The drift forms several prominent topographic features in the county (Klaer and Stallman, 1948, pl 2; Leverett and Taylor, 1915, pl. 6; Wayne, 1958) such as the Valparaiso moraine in the extreme northwestern part, a two-prong extension of the Kalamazoo moraine in the north-central part; the Maxinkuckee moraine in the south-central part, and glaciofluvial plains and terraces in the northern and southwestern parts.

The unconsolidated rocks of Pleistocene age range in thickness from less than 50 feet to about 300 feet. The rocks consist chiefly of glaciofluvial sand and gravel, clayey till, and some glaciolacustrine clay and silt. The glaciofluvial sand and gravel is locally more than 200 feet thick and is the chief source of ground water for domestic and stock, industrial, and public supplies. Wells that tap this aquifer are generally less than 200 feet deep and yield from 5 to more than 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 ground water.

Plate 2 shows the availability of ground water in the unconsolidated rocks underlying the county. In addition, plates 3 and 4 show respectively the areal distribution of hardness and iron content of water from 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 small areas in the northern and southern parts of the county the hardness is less than 200 ppm. Although the iron content in much of the county exceeds maximum concentration

recommended in the U. S. Public Health Service drinking-water standards (p.252) for iron and manganese together, there are sizeable areas where this standard is not exceeded.

CONFINED AND UNCONFINED CONDITIONS

Ground water occurs in the consolidated and unconsolidated rocks of St. Joseph 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 St. Joseph County. Most water wells 3-inches or more in diameter are constructed by the cable-tool, or percussion, method, but a few wells have been drilled by the rotary and reverse-rotary methods. When the water-bearing material is sand and gravel, the well is generally finished with a well screen set in the aquifer 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 screens and the water-bearing material.

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

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

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, public, and industrial supplies from sand and gravel of Pleistocene age. The underlying bedrock is not used as a source of water. However, the rocks of Devonian and Devonian and Mississippian(?) age are a potential source of water of uncertain quality and quantity.

The quality of water from the rocks of Pleistocene age varies. The water is generally hard to very hard. In several small areas in the northern and southwestern parts the hardness of water is less than 200 ppm. Although the iron content exceeds the U. S. Public Health Service drinking-water standards for iron and manganese together in much of the county, there are sizeable areas in which the iron content does not exceed these standards.

RECORDS

The records of about 1,850 wells and test holes are given in table 2. The table contains information about well construction, water levels, yields and drawdowns, conditions of occurrence, thickness and characteristics of water-bearing materials, type of pump, and other data. The altitude of the land surface at all wells, except test borings was interpolated from topographic maps 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 710 wells and test holes. This table gives the driller's description of the material encountered, pertinent remarks with regard to the material, and the authors' interpretation of the geologic age of the material.

The results of 450 partial chemical analyses of water are given in table 4. Of this number 426 were determined in the field office of the Geological Survey, and 24 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 (calcium, magnesium) of water. The U. S. Public Health Service standards for drinking water are given in the table headnotes for iron and manganese together, sulfate, and chloride. No standards have been established for hardness of water. However, water with respect to hardness is generally classified as follows: 0-60 ppm soft; 61-120 ppm moderately hard; 121-200 ppm hard; more than 200 ppm very hard. Water having a hardness of more than 200 ppm requires softening for many purposes.

Table 5 contains the records of 24 observation wells of which two were established during the investigation and the rest prior to the investigation. The water levels in the observation wells were measured 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 water levels are given for the observation wells equipped with recording gages for which the records have not been previously published. Previously published records are summarized, and only selected measurements are tabulated in the table. (See water-supply papers listed under U. S. Geological Survey in selected bibliography.) Periodic water levels are given for the observation wells measured manually. Factors affecting the water levels in the observation wells are also indicated. The location of the observation wells is shown on plate 1.

SELECTED BIBLIOGRAPHY

- Gutstadt, A. M., 1958, Cambrian and Ordovician stratigraphy and oil and gas possibilities in Indiana: Indiana Dept. Conserv., Geol. Survey Bull. 14, 103 p.
- Harrell, Marshall, 1935, Ground Water in Indiana: Indiana Dept. Conserv., Div. Geology Pub. 113, 504 p.
- Hem, J. D., 1959, Study and interpretation of the chemical characteristics of natural water: U. S. Geol. Survey Water-Supply Paper 1473, 269 p.
- Keech, C. F., and Dreeszen, V. H., 1959, Geology and ground-water resources of Clay County, Nebr. with a section on chemical quality of the water by F. H. Rainwater: U. S. Geol. Survey Water-Supply Paper 1468, p. 62-86.
- Klaer, F. H., Jr., and Stallman, R. W., 1948, Ground-water resources of St. Joseph County, Indiana, part 1, South Bend area: Indiana Dept. Conserv., Div. Water Resources Bull. 3, 177 p.
- Leverett, Frank, 1899, Wells of northern Indiana: U. S. Survey Water-Supply and Irrig. Paper 21, 64 p.
- Leverett, Frank, and Taylor, F. B., 1915, The Pleistocene of Indiana and Michigan and the history of the Great Lakes: U. S. Geol. Survey Mon. 53, 529 p.

SELECTED BIBLIOGRAPHY--CONTINUED

- Logan, W. N., 1932, Geologic map of Indiana: Indiana Dept. Conserv., Div. Geology Pub. 112.
- Patton, J. B., 1956, Geologic map of Indiana: Indiana Dept. Conserv., Geol. Survey Atlas Mineral Resources Map 9.
- Rosenshein, J. S. and Consner, O. J., 1956, Ground-water resources of Tippecanoe County, Indiana: Appendix, basic data: Indiana Dept. Conserv., Div. Water Resources Bull. 8, 67 p.
- U. S. Geological Survey, issued annually; Water levels and artesian pressure in observation wells in the United States: U. S. Geol. Survey Water-Supply Papers 817, 840, 845, 886, 906, 936, 944, 986, 1016, 1023, 1071, 1096, 1126, 1156, 1165, 1191, 1221, 1265, 1321, and 1404.
- Wayne, W. J., 1958, Glacial Geology of Indiana: Indiana Dept. Conserv., Geol. Survey Atlas Mineral Resources Map 10.
- Wentworth, C. K., 1922, A scale of grade and class terms for clastic sediments: Jour. Geology, vol. 30, p. 377-392.

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

Well: See text for description of well-numbering system.
 Altitude: Altitude of land-surface datum from topographic map, except as noted in text p. 7.
 Type of well: D, bored; Dr, driven; Dr, drilled; Da, dug; J, jetted.
 Finish: Gp, gravel pack; S, screen; dia, diameter in inches; 6, gauze size; sl, slot size.
 Character: D, drift; G, gravel; Sd, sand.
 Geologic age: Pl, Pleistocene
 Condition of occurrence: C, confined; U, unconfined; see text for definition of terms.

Water level: In feet below land-surface datum on date of completion of well, except where otherwise noted.
 Use: Ac, air conditioning; D, domestic; Do, destroyed; I, industrial; Ir, irrigation; N, not used; O, observation; P, public supply; S, stock; T, test.
 Type of pump and horsepower: C, centrifugal; J, jet; L, lift; P, pitcher; S, submersible; T, turbine; numeral indicates rated horsepower of electric motor.
 Remarks: Ch, field chemical analysis in table 4; ud, drawdown; E, electric log available for inspection; G, gamma-ray log available for inspection; gpm, gallons per minute; NS, 1948, in Klear and Stallman (1948); L, log of well in table 1.

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				
35/1W-181	H. Clinganpoel	E. Brooker	7-12-55	712 J	63	2	S; 3 1/2 ft, 60g, dia 1 1/2	44	19	Sd, G	Pl	C	12	D, S	J	Fine sand and medium gravel overlain by 4 1/2 ft yellowish clay mixed with sand; Ca, L.
1281	D. Schmitz	do	7-10-59	710 J	35	2 1/2	S; 4 ft, 60g, dia 1 1/2	30	21	Sd, G	Pl	U	30	D	J1/2	
1361	J. Capak	Woods and Keol Well Drilling Co.	7-11-59	718 J	51	2	S; 3 1/2 ft, 60g, dia 1 1/2	42	12	Sd, G	Pl	C	28	D	J1/2	See log well 1361; Ca.
1381	G. Matz	Spivor Drilling Co.	9-30-49	722 J	54	2	S; 3 ft, 60g, dia 1 1/2	145	14	Sd, G	Pl	C	26	D	J1/2	
1381	J. Groves	E. Brooker	8-6-55	726 J	159	2	S; 3 1/2 ft, 60g, dia 1 1/2	61	31	Sd, G	Pl	C	15	Do	---	See log well 23J2.
23J1	Town of Walkerton	Layne-Northern Co., Inc.	9-32	715 Dr	92	12	S; 20ft	---	---	Sd, G	Pl	---	---	P	---	Bedrock at 183 ft; L.
23J2	do	Indiana-Michigan Water Development Co.	8-2-42	715 Dr	163	12	S	---	---	Sd	Pl	---	---	T	---	See log well 23J2.
23J3	do	do	3-9-45	715 Dr	100	6	---	60	39	Sd	Pl	C	2	P	T20	See log well 23J2.
23J4	do	do	4-11-45	715 Dr	98	12	S; 28ft, 10sl	---	---	Sd	Pl	C	---	T	---	See log well 23J2.
23R1	do	do	8-7-36	718 Dr	124	12	S; 12ft, 40sl, dia 1 1/2	109	15	G, Sd	Pl	C	18	P	T20	See log well 23J2.
24M1	do	do	9-4-42	710 Dr	142	12	S; 20ft, dia 10	122	20	G, Sd	Pl	C	16	P	T20	See log well 23J2.
24N2	do	do	10-15-42	710 Dr	141	12	S; 12 1/2 ft, dia 10	122	19	G, Sd	Pl	C	14	P	T15	See log well 23J2.
24M3	J. Norris	E. Brooker	8-10-55	723 J	47	2	S; 3 1/2 ft, 60g, dia 1 1/2	43	4	G, Sd	Pl	C	28	Ac	J1/3	See log well 23J2.
25C1	Town of Walkerton	Indiana-Michigan Water Development Co.	1-24-45	724 Dr	148	6	---	---	---	Sd	Pl	---	---	T	---	See log well 23J2.
25D1	do	do	J-2-45	728 Dr	136	6	---	---	---	Sd, G	Pl	---	---	T	---	See log well 23J2.
25E1	J. Erbaugh	E. Brooker	6-23-56	730 J	54	2	S; 3 1/2 ft, 60g, dia 1 1/2	40	14	Sd, G	Pl	C	24	D	---	See log well 23J2.
26A1	W. D. Gerslino	Spivor Drilling Co.	10-17-49	719 J	39	2	S; 3 ft, 60g, dia 1 1/2	---	---	Sd	Pl	---	24	D	---	See log well 23J2.
35H1	E. Kerschert	E. Brooker	6-21-57	710 J	78	2	S; 3 1/2 ft, 60g, dia 1 1/2	---	---	Sd, G	Pl	---	9	I	---	See log well 23J2.
35/1-1A1	H. Kneer	Spivor Drilling Co.	11-10-52	800 J	60	2	S; 3 ft, 60g, dia 1 1/2	36	72	Sd, G	Pl	C	25	D, S	J1/3	See log well 23J2.
1A2	do	E. W. Schroeder	8-6-59	800 J	108	2	S; 3 ft, 12sl, dia 1 1/2	45	9	G	Pl	C	32	D, S	L	See log well 23J2.
1D1	do	do	7-3-57	810 J	57	2	S; 3 ft, 60g, dia 1 1/2	48	20	Sd	Pl	C	22	D, S	J	See log well 23J2.
1J1	R. A. McEnderfer	Spivor Drilling Co.	11-4-53	815 J	65	2	---	45	20	G	Pl	C	22	D, S	J	See log well 23J2.
2E1	W. Kane	do	---	777 J	65	2	S; 3 1/2 ft, 60g, dia 1 1/2	---	---	Sd	Pl	---	14	R	---	See log well 23J2.

35/1-581	J. Six	E. Brooker	12-3-55	7:35 J	46	2	S; 3ft, 60g, dia 1 1/2	40	6	G, Sd	Pl C	18 D	J1/3	Medium gravel with fine sand overlain by 40 ft yellow and blue clay.
812	R. C. Nye	Srivor Drilling Co.	5-7-54	752 J	88	2 1/2	S; 5ft, 60g, dia 1 1/2	82	6	Sd	Pl C	10 S	J	Ca, L.
1041	C. Hivley	J. Hughes	10-56	758 J	82	2	S; 3ft, 60g, dia 1	60	32	G, Sd	Pl C	---	P1/4	Flored 5 gpm; gravel with gray sand overlain by 80 ft yellow and blue clay.
1271	R. Collins	Srivor Drilling Co.	11-26-54	832 J	88	2	S; 3ft, 60g, dia 1 1/2	60	8	Sd	Pl C	49	J1/2	L.
1441	J. Longancker	Mr. Kirkley	---	768 J	84	2	---	48	10	Sd, G	Pl C	3	---	Flored 1 gpm.
1711	W. Parvey	E. Brooker	7-5-59	737 J	58	2	S; 4ft, 60g, dia 1 1/2	48	10	Sd, G	Pl C	14	J1/2	Ca, L.
35/2-181	M. Moise	C. Rouch	3-55	830 J	125	2	S; 4ft, 60g	63	82	Sd, G	Pl C	12	C3/4	Yield 20 gpm; sand and gravel overlain by 83 ft clay and silt.
171	E. Miller	---	8-2-57	835 J	40	3	---	30	10	Sd, G	Pl C	22	J3/4	Yield 30 gpm; Ca, L.
271	C. E. Cavender	Srivor Drilling Co.	12-23-46	840 J	40	2	S; 3ft, 60g, dia 1 1/2	24	18	Sd, G	Pl U	24	---	Sand and gravel from 0-40 ft; Ca.
281	F. W. Rupert	---	8-50	845 J	44	2	---	28	18	Sd, G	Pl U	28	---	Sand and gravel from 0-44 ft; Ca, L.
291	J. Wooley	---	8-23-53	840 J	49	2	---	24	23	C, Sd	Pl U	24	---	Ca.
291	W. Pugh	---	---	835 J	39	2	S; 3ft, 10sal, dia 1 1/2	---	24	Sd, G	Pl	32	J3/4	Sand and gravel from 0-44 ft; Ca, L.
291	J. Peters	Srivor Drilling Co.	5-18-49	830 J	39	2	S; 3ft, 60g, dia 1 1/2	28	11	Sd, G	Pl C	18	---	L.
291	G. Faustler	---	8-23-52	835 J	49	2	S; 3ft, 60g, dia 1 1/2	10	30	Sd, G	Pl U	10	---	Sand and gravel from 0-49 ft.
311	L. Platz	---	6-14-48	860 J	58	2	S; 3ft, 60g, dia 1 1/2	---	---	Sd, G	Pl	48	---	Course sand and gravel overlain by clay mixed with gravel.
391	F. Kizer	---	---	860 J	65	2	S; 3ft, 60g, dia 1 1/2	---	---	Sd, G	Pl	59	L1/2	Ca.
401	G. F. Stump	Srivor Drilling Co.	5-8-47	875 J	144	2	S; 5ft, 80g, dia 1 1/2	---	---	Sd	Pl	68	D, S	Ca.
401	P. W. Pillor	---	5-12-47	885 J	94	2	S; 3ft, 60g, dia 1 1/2	---	---	Sd, G	Pl	80	D, S	Ca.
481	S. Byrer	---	10-18-52	870 J	111	2	S; 3ft, 60g, dia 1 1/2	104	7	Sd	Pl C	49	---	Ca, L.
511	S. Styrkul	---	8-8-45	875 J	100	2	S; 5ft, 60g, dia 1 1/2	---	---	Sd	Pl	64	---	Ca, L.
611	C. Storzynski	---	---	810 J	84	2 1/2	S; 5ft, dia 1 1/2	74	10	Sd	Pl C	30	J1	Ca.
642	---	---	---	810 J	75	2	S; 3ft, 60g, dia 1 1/2	---	---	Sd	Pl	27	D, S	Ca.
611	R. Korsh	---	---	825 J	48	2	---	---	---	Sd, G	Pl	30	---	Ca.
711	G. Guahwa	Srivor Drilling Co.	3-10-50	851 J	76	2	S; 3ft, 60g, dia 1 1/2	---	---	Sd, G	Pl	59	---	Ca, L.
891	F. Markloy	---	6-8-56	885 J	105	2	S; 3ft, 8sal, dia 1 1/2	90	15	Sd	Pl C	50	---	Ca, L.
891	R. Roush	---	8-18-53	892 J	87	2	S; 3ft, 60g, dia 1 1/2	66	21	G	Pl U	66	---	L.
1001	M. Richards	E. W. Schroeder	8-19-59	870 J	126	2	S; 3ft, 12sal, dia 1 1/2	100	28	Sd, G	Pl C	80	---	Yield 10 gpm; L.
1011	Mr. Houck	Srivor Drilling Co.	---	847 J	35	2	S; 3ft, 60g, dia 1 1/2	20	15	Sd, G	Pl C	18	---	Sand and gravel overlain by 20 ft blue clay; Ca.
1101	C. Everett	C. Rouch	10-57	836 J	70	2	S; 4ft, 60g	54	16	Sd	Pl C	40	J1/2	Yield to coarse sand overlain by 54 ft clay and silt.
1401	L. Geyer	---	9-55	832 J	45	2	S; 3ft, 60g, dia 1 1/2	36	9	Sd	Pl C	18	J1/2	Yield 20 gpm; Ca, L.
1501	R. Heiser	Srivor Drilling Co.	5-9-46	851 J	99	2	S; 3ft, 60g, dia 1 1/2	---	---	Sd	Pl	34	---	Ca, L.
1601	C. V. Gillis	---	10-27-45	897 J	124	2	S; 3ft, 60g, dia 1 1/2	---	---	Sd	Pl	100	---	Ca, L.
1601	F. Bronner	Indiana-Michigan Water Development Co.	5-20-40	873 Dr	49	4	S; 10ft, 15sal, dia 1 1/2	25	24	Sd, G	Pl U	25	T2	Ca, L.
1801	E. Koser	E. W. Schroeder	9-13-57	816 J	40	2	S; 3ft, 60g, dia 1 1/2	30	10	G	Pl C	28	---	Yield 8 gpm; Ca, L.
1801	T. Harbaugh	Srivor Drilling Co.	1052	842 J	63	2	S; 3ft, 60g, dia 1 1/2	48	21	Sd, G	Pl U	48	J1/2	Sand and gravel overlain by 45 ft clay; Ca.
1801	E. A. Hively	---	2-23-40	842 J	89	2	S; 3ft, 60g, dia 1 1/2	---	---	Sd	Pl	23	---	Ca.
2101	H. Bartlett	---	---	887 J	50	2	S; 3ft, 60g, dia 1 1/2	---	---	Sd	Pl	18	J3/4	Yield 80 gpm; Ca, L.
35/3-1101	C. Dotal	Kennedy Well Service	10-17-56	820 Dr	98	4	S; 4ft, 10sal, dia 1 1/2	92	8	Sd, G	Pl C	18	J1	Ca, L.
1301	J. Pittman	W. BarKholder	6-14-57	822 J	101	2	S; 60g	131	6	Sd, G	Pl C	100	J1/2	Ca, L.
1801	S. Hochstetler	Srivor Drilling Co.	9-29-48	847 J	139	3	S; 5ft, 60g, dia 2	60	10	Sd	Pl C	15	L1/4	Ca, L.
1801	E. Rouch	C. Rouch	5-55	832 J	70	2	S; 4ft, 60g	102	10	Sd	Pl C	18	---	Ca.
35/4-1711	A. Stevens	Srivor Drilling Co.	4-4-46	831 J	112	2	S; 3ft, 60g, dia 1 1/2	---	---	Sd	Pl C	---	---	Oil test; bedrock at 175 ft; 97 ft sand overlain by 17 ft dolomite; dolomite contained water with hydrogen sulfide gas.
36/1A-1301	W. H. Snyder	Shell Oil Co.	1941	807 Dr	289	---	---	---	---	---	---	---	---	---

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

Well	Owner	Driller	Date Completed	Altitude (feet)	Type of well	Depth of well below land surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone				Remarks				
									Depth to top (feet)	Thickness (feet)	Character	Geologic mgs		Conditions of occurrence	Water level (feet)	Use	Type of pump and horsepower
36/1W-25P1 26D1	W. Rona M. Nelson	Huntz Kessler Hardware Shoell Oil Co.	1056 1941	704 J 688 Dr	300	38	2	S; 4ft, 60g	20	38	Sd, G	Pl	U	20	S	J1	Yield 15 gpm; Ca, L. Oil test; bedrock at 152 ft; 136 ft shale overlain by 12 ft dolomite. Ca, L.
35B1	W. Ruff	Srivor Drilling Co.	10-30-50	705 J	40	40	2	S; 3ft, 60g, dia 1 1/2	25	15	Sd	Pl	C	13	D, S	J1/4	
36/1-1P1	Camp Millhouse	Indiana-Michigan Water Development Co.	6-16-51	745 Dr	88	88	4	S; 8ft, 30al, dia 1 1/2	22	21	G, Sd	Pl	U	22	D, S	J1/2	Sand overlain by 40 ft gravel; Ca
1H1	V. Krieg	Srivor Drilling Co.	-----	750 J	43	43	2	S; 3ft, 60g, dia 1 1/2	27	12	Sd	Pl	U	18	S	-----	Originally drilled to 58 ft; Ca Yield 10 gpm; L.
1K1	R. Rogers	Woods and Koel Well Drilling Co.	2-15-57 11-9-59	745 J 740 J	37 39	37 39	2	S; 3ft, 60g, dia 1 1/2	27	12	Sd	Pl	U	27	D	-----	Sand and gravel from 0-43 ft. Oil test; bedrock at 112 ft; 230 ft shale overlain by 10 ft limestone and dolomite. L.
1R1 6N1	G. Strantz R. Miller	Srivor Drilling Co. Shoell Oil Co.	9-20-51 1941	740 J 695 Dr	43 332	43	2	-----	-----	-----	Sd, G	Pl	-----	-----	-----	-----	
8Q1	H. Whilman	Srivor Drilling Co.	12-24-53	722 J	87	87	2	S; 3ft, 60g, dia 1 1/2	75	12	Sd	Pl	C	38	D	J3/4	Ca, L.
6R1	E. Lynn	-----	12-24-53	735 J	87	87	2	-----	70	17	Sd	Pl	C	40	D	J3/4	Ca, L.
9L1	R. Futa	-----	12-27-46	742 J	50	50	2	-----	-----	-----	Sd, G	Pl	-----	44	D, S	-----	Sand and gravel from 0-50 ft.
9L2	-----	-----	11-15-49	742 J	50	50	2	S; 3ft, 60g, dia 1 1/2	-----	-----	Sd, G	Pl	U	31	D, S	-----	Sand and gravel overlain by 18 ft clay.
10C1	H. Wolff	-----	7-28-55	749 J	47	47	2 1/2	S; 3ft, 60g, dia 1 1/2	31	16	Sd, G	Pl	U	31	D	-----	Yield 15 gpm; Ca, L.
10C2	H. P. Woods	Woods and Koel Well Drilling Co.	9-28-59	746 J	50	50	2	S; 3ft, 60g, dia 1 1/2	30	20	Sd	Pl	-----	30	D	J3/4	Yield 15 gpm; Ca, L.
10D1	W. Kopanski	Srivor Drilling Co.	4-16-58	749 J	64	64	2	-----	31	33	Sd, G	Pl	V	31	D	-----	Yield 15 gpm; Ca, L.
11D1	Z. R. Prytz	-----	9-19-50	748 J	40	40	2	S; 3ft, 60g, dia 1 1/2	30	10	Sd, G	Pl	V	30	D	J3/4	Yield 15 gpm; Ca, L.
12B1	C. E. Patterson	-----	4-19-50	740 J	35	35	2	S; 3ft, 60g	-----	-----	Sd, G	Pl	-----	16	-----	-----	
12C1	T. Jones	-----	7-18-51	740 Dr	32	32	2	S; 3ft, 60g, dia 2	106	14	Sd, G	Pl	C	75	D	J1/2	Ca, L.
13H1	A. Sattler	-----	-----	790 J	120	120	2	S; 3ft, 60g, dia 1 1/2	-----	-----	Sd	Pl	C	64	D	-----	Ca, L.
13K1	H. Gerlack	-----	1-8-57	780 J	100	100	3	S; 3ft, 60g, dia 1 1/2	90	10	Sd	Pl	C	64	D	-----	Ca, L.
17B1	H. Whitmer	-----	-----	732 J	36	36	2	-----	-----	-----	Sd	Pl	-----	-----	-----	-----	
17B2	E. Whitmer	-----	12-10-52	732 J	90	90	2	S; 3ft, 60g, dia 1 1/2	-----	-----	Sd	Pl	-----	17	D, S	J1/2	Yield 12 gpm; sand from 0-24 ft.
17Q1	H. Chabora	Woods and Koel Well Drilling Co.	7-14-59	727 J	24	24	2	-----	13	11	Sd	Pl	U	13	D	-----	Ca, L.
19B1	E. Eldred	Srivor Drilling Co.	3-31-47	727 J	50	50	2	S; 3ft, 60g, dia 1 1/2	-----	-----	Sd, G	Pl	-----	30	D	-----	Ca, L.
19R1	V. R. Smith	W. Hughes	-----	727 Dr	21	21	2	-----	-----	-----	Sd	Pl	-----	8	D	-----	Ca, L.
21D1	J. Parnelay	Srivor Drilling Co.	-----	728 J	38	38	2	S; 3ft, 60g, dia 1 1/2	29	9	Sd	Pl	C	8	D	-----	Ca, L.
22C1	J. Holloway	-----	9-14-50	742 Dr	25	25	1 1/2	S	-----	-----	Sd	Pl	-----	15	D	-----	
22A1	R. Anglin	-----	5-12-45	742 J	45	45	2	S; 3ft, 60g, dia 1 1/2	40	25	Sd	Pl	C	2	D	-----	Yield 9 gpm; sand overlain by 40 ft clay with some sand.
23Q1	C. Whitcar	Woods and Koel Well Drilling Co.	8-9-59	758 J	85	85	2	S; 3ft, 60g, dia 1 1/2	29	24	Sd, G	Pl	U	29	D, S	-----	Sand and gravel overlain by 18 ft clay.
24H1	C. Lightfoot	Srivor Drilling Co.	7-4-50	790 J	53	53	2	-----	-----	-----	Sd, G	Pl	-----	-----	-----	-----	Oil test; bedrock at 225 ft; L.
26J1	W. F. Hay	Srivor Drilling Co.	1-29-52	800 Dr	300	300	6-3	-----	-----	-----	Sd, G	Pl	-----	-----	-----	-----	Oil test; bedrock at 202 ft; L.
26P1	F. Xing	Ohio Oil Co.	-----	770 J	110	110	2	S	-----	-----	Sd	Pl	-----	-----	-----	-----	Ca, L.
28C1	D. A. Pearson	-----	6-12-57	733 Dr	1,514	1,514	7	-----	-----	-----	Sd, G	Pl	C	12	D, I	J1/2	
28E1	L. D. Shonemaker	E. Brooker	6-12-57	722 J	63	63	2	S; 3ft, 60g, dia 1 1/2	40	23	Sd, G	Pl	C	12	D, I	J1/2	

Well No.	Town of North Liberty	Driller	Before	722 Dr	67	8	9	10ft. dia 6	---	---	---	Sd.G	Pl	---	17	P	T15	Yield
2891	Liberty	Layne-Northern Co., Inc.	3-13-40	728 Dr	100	8	8	S; 16ft	---	---	---	G, Sd	Pl	---	18	P	T	Yield 400 gpm; L.
3261	W. E. Becono	E. Brooker	8-14-57	732 J	44	2	2	S; 3ft, 60g, dia 1 1/2	35	---	---	Sd.G	Pl	C	14	D	L	Fine to coarse sand and fine gravel overlain by 38 ft yellow clayey gravel; Ca. L.
3262	J. Witt	Silver Drilling Co.	---	727 J	49	2	2	S; 3ft, 80g, dia 1 1/2	35	---	---	G	Pl	C	10	D	---	See log well 3262.
3263	J. Holvas	---	---	730 J	49	2	2	S; 3ft, 80g, dia 1 1/2	25	---	---	Sd.G	Pl	C	14	D	J1/2	Ca. L.
3291	F. J. Larson	---	11-21-46	732 J	40	2	2	do	42	---	---	Sd	Pl	C	22	---	---	Ca. L.
3381	H. Louka	---	12-5-58	730 J	67	2	2	S; 3ft, 80g, dia 1 1/2	42	---	---	Sd	Pl	C	15	D	---	L.
3391	Wells Specialty Co., Inc.	Indiana-Michigan Water Development Co.	4-13-54	735 Dr	73	8	8	S; 10ft, 14in, dia 1 1/2	18	---	---	Sd.G	Pl	U	18	I	T0	Ca., L.
3391	T. Pearce	Silver Drilling Co.	4-8-52	737 J	46	2	2	S; 3ft, 10in, dia 1 1/2	---	---	---	Sd	Pl	---	20	D, S	---	Sand overlain by 49 ft clay; Ca.
3441	C. E. Stull	---	7-50	769 J	58	2	2	S; 3ft, 60g, dia 1 1/2	49	---	---	Sd	Pl	C	12	D	J	Ca.
3441	C. Kaer	---	11-1-45	767 J	73	2	2	S; 3ft, 80g, dia 1 1/2	38	---	---	Sd	Pl	C	6	D	---	Flowed; sand overlain by 38 ft blue clay.
3591	G. Stull	---	---	753 J	43	2	2	S; 3ft, 80g, dia 1 1/2	58	---	---	Sd.G	Pl	C	44	D, S	J	Flowed 17 gpm; L.
3592	---	C. Rouch	9-57	753 J	78	2	2	S; 3ft	---	---	---	Sd	Pl	---	20	D	J1/2	Ca.
3691	R. Remachnydor	Silver Drilling Co.	---	800 J	108	2	2	S; 3ft, 60g, dia 1 1/2	---	---	---	Sd	Pl	---	---	D	J1/2	Ca.
3691	Z. W. Miller	---	10-25-46	810 J	58	2	2	S; 3ft, 60g, dia 1 1/2	---	---	---	Sd	Pl	---	---	D	J1/2	Ca.
3692	H. Mackley	---	1-14-45	800 J	52	2	2	do	---	---	---	G	Pl	---	---	D	J1/2	Ca.
3692	E. Hensinger	---	5-11-45	849 J	90	2	2	S; 3ft, 80g, dia 1 1/2	72	---	---	G, Sd	Pl	U	54	D	J3/4	Sand overlain by 21 ft yellow clay; Ca.
38/2-181	A. C. Spillman	---	8-7-57	840 J	07	2	2	S; 3ft, 60g, dia 1 1/2	---	---	---	Sd	Pl	U	72	D	J3/4	Ca.
161	W. A. Mitchell	---	8-19-53	895 J	51	2	2	S; 3ft, 80g, dia 1 1/2	34	---	---	G, Sd	Pl	U	34	D	J1/2	L.
162	R. L. Redger	---	10-15-53	895 J	51	2	2	do	17	---	---	G, Sd	Pl	U	30	D	J1/2	Sand and gravel from 0-51 ft.
163	E. A. Peterson	---	12-24-53	895 J	52	2	2	do	30	---	---	G, Sd	Pl	U	38	D	J1/2	Ca. L.
164	C. Richards, Jr.	---	10-14-53	895 J	55	2	2	do	32	---	---	G, Sd	Pl	U	32	D	J1/2	Sand and gravel from 0-85 ft.
165	E. K. Restatler	Silver Drilling Co.	8-14-48	895 J	58	2	2	do	22	---	---	G, Sd	Pl	U	45	D	J3/4	Sand and gravel from 0-58 ft.
168	C. W. Brown	---	---	895 J	62	2	2	S; 3ft, 10in, dia 1 1/2	---	---	---	Sd.G	Pl	U	43	D	J3/4	Ca. L.
169	K. L. Crisp	Silver Drilling Co.	---	895 J	57	2	2	S; 3ft, 80g, dia 1 1/2	37	---	---	Sd.G	Pl	U	37	D	J1/2	Sand and gravel from 0-57 ft.
192	R. Edward	---	9-8-52	890 J	47	2	2	S; 3ft, 60g, dia 1 1/2	28	---	---	Sd.G	Pl	U	28	D	J1/2	Sand and gravel from 0-47 ft.
193	H. F. Trapp	---	9-29-53	890 J	51	2	2	S; 3ft, 80g, dia 1 1/2	---	---	---	Sd.G	Pl	U	31	D	J1/2	Sand and gravel from 0-49 ft.
194	Whitcomb and Keller	Silver Drilling Co.	---	890 J	49	2	2	S; 3ft, 80g, dia 1 1/2	24	---	---	Sd.G	Pl	U	24	D	J1/2	Ca. L.
195	---	---	9-30-53	890 J	50	2	2	do	26	---	---	Sd.G	Pl	U	26	D	J1/2	Sand and gravel from 0-50 ft.
211	D. Beyler	---	9-19-50	850 J	67	2	2	do	68	---	---	Sd.G	Pl	U	58	D	---	Sand and gravel from 0-87 ft.; Ca. L.
212	R. Foley	---	8-9-48	825 J	59	2	2	do	38	---	---	Sd.G	Pl	U	38	D	---	Ca. L.
213	R. Fletcher	---	7-23-49	810 J	42	2	2	S; 3ft, 60g, dia 1 1/2	24	---	---	Sd.G	Pl	U	24	D	J3/4	Sand and gravel overlain by 8 ft clay.
214	G. Blavens	---	12-27-45	800 J	40	2	2	S	---	---	---	Sd.G	Pl	U	21	D	J1/2	Ca. L.
215	H. Lohar	Silver Drilling Co.	9-15-49	825 J	64	2	2	S; 3ft, 60g, dia 1 1/2	---	---	---	Sd.G	Pl	U	46	D	---	Sand and gravel overlain by 14 ft yellow clay.
216	L. Polkin	---	10-20-45	825 J	52	2	2	S; 3ft, 80g, dia 1 1/2	60	---	---	G	Pl	U	47	D	L	Ca. L.
217	L. Kelly	---	---	860 J	87	2	2	S; 3ft, 80g, dia 1 1/2	60	---	---	Sd.G	Pl	U	60	D	L	Sand and gravel overlain by 50 ft clay.
291	A. H. Featherling	---	5-14-40	890 J	110	2	2	S; 3ft, 80g, dia 1 1/2	100	---	---	G	Pl	U	100	D	J1	Gravel overlain by 50 ft clay.
292	L. Michael	---	10-15-50	870 J	94	2	2	up	70	---	---	Sd.G	Pl	U	70	D	J1	Sand and gravel from 0-94 ft.
293	H. Abbe	---	8-18-47	865 J	114	2	2	S; 3ft, 80g, dia 2	91	---	---	Sd.G	Pl	U	51	D	---	Sand and gravel overlain by 60 ft clay.
294	E. P. Eby	---	8-24-53	875 J	113	2	2	S; 3ft, 60g, dia 1 1/2	85	---	---	G, Sd	Pl	U	85	D	---	L.
291	W. K. Watkins	---	5-19-51	880 J	118	2	2	S; 3ft, 60g, dia 1 1/2	67	---	---	Sd.G	Pl	U	67	D	---	L.
292	H. Moore	---	8-12-54	890 Dr	121	4	4	S; 10ft, 10in	67	---	---	Sd.G	Pl	U	87	D	J2	Ca. L.
293	F. Buczolich	---	10-20-56	870 J	115	3	3	S; 3ft, 80g, dia 2	---	---	---	Sd.G	Pl	U	---	D	J	Sand and gravel overlain by 20 ft yellow clay; Ca.
294	H. Schafer	---	---	890 J	98	2	2	S; 3ft, 80g, dia 1 1/2	---	---	---	Sd.G	Pl	U	85	D	J1	Ca. L.
295	W. Gidley	Silver Drilling Co.	7-30-47	895 J	116	2	2	S; 3ft, 60g, dia 1 1/2	92	---	---	G, Sd	Pl	U	92	D	---	L.

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

Well	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone				Use	Type of pump and horsepower	Remarks	
									Depth to top (feet)	Thickness (feet)	Character	Geologic age				Conditions of occurrence
367/2-2R6	J. Odusich	Striver Drilling Co.	1-3-51	885 J	J	115	3	S; 4ft., 80g, dia 2	25	Sd, G	Pl	U	90	D	J1	Yellow sand and gravel overlain by 25 ft yellow clay. Sand and gravel overlain by 35 ft yellow clay.
2R7	C. K. Miller	-----do-----	-----	880 J	J	112	2 1/2	S; 5ft., 60g, dia 1 1/2	26	Sd, G	Pl	U	86	D	J1/3	L.
3A1	S. Hertzog	-----do-----	1-18-49	825 J	J	63	2	S; 3ft., 60g, dia 1 1/2	48	Sd, G	Pl	U	48	D	-----	L.
3B1	C. Steck	-----do-----	7-24-48	815 J	J	52	2	S; 4ft., 60g, dia 1 1/2	15	Sd, G	Pl	C	40	N	-----	L.
3D1	E. Lawson	-----do-----	8-5-48	815 J	J	44	2	S; 3ft., 60g, dia 1 1/2	---	Sd	Pl	---	14	D	-----	---
3D2	E. Pronikowski	-----do-----	8-6-48	815 J	J	44	2	S; 4ft., 60g, dia 1 1/2	---	Sd	Pl	---	14	D	-----	---
3E3	W. Dower	-----do-----	4-16-47	820 J	J	40	2	S; 3ft., 80g, dia 1 1/2	---	Sd, G	Pl	---	26	D	-----	---
3D4	E. Gubac	-----do-----	5-7-51	820 J	J	58	2	S; 3ft., 80g, dia 1 1/2	---	Sd	Pl	---	32	D	-----	---
3G1	Mr. Barber	-----do-----	5-22-57	820 J	J	57	2	S; 7ft., 80g, dia 2	37	Sd, G	Pl	C	59	D	-----	---
3N1	F. Smith	-----do-----	-----	840 J	J	94	2	S; 3ft., 60g, dia 1 1/2	7	G	Pl	C	64	---	-----	---
3P1	R. Daly	-----do-----	-----	840 J	J	83	2	S; 5ft., 10al, dia 1 1/2	18	Sd, G	Pl	C	47	---	-----	---
3P2	W. M. Bognar	-----do-----	-----	840 J	J	42	2	S; 5ft., 60g, dia 1 1/2	22	Sd, G	Pl	V	20	D	-----	---
3R1	F. D. Wilson	-----do-----	-----	840 J	J	83	2	S; 3ft., 10al, dia 1 1/2	---	Sd	Pl	---	40	---	-----	---
3R2	Gentner Packing Co.	Indiana-Michigan Water Development Co.	9-10-37	845 Dr	Dr	176	8	S; 10ft., 40al, dia 7 1/2	18	G	Pl	C	51	N	T10	Dd 20 ft pumping 180 gpm; L.
3R3	-----do-----	-----do-----	8-19-45	845 Dr	Dr	161	12	S; 15ft., 70g, dia 10	31	Sd	Pl	C	50	P, I	T15	Dd 52 ft pumping 90 gpm; Ca, L.
3R4	-----do-----	-----do-----	11-9-54	845 Dr	Dr	154	10	S; 10ft., 10al, dia 10	11	Sd	Pl	C	50	I	T10	Dd 102 ft pumping 75 gpm; Ca, L.
3R5	F. D. Wilson	Striver Drilling Co.	6-22-56	840 J	J	177	2 1/2	S; 5ft., 60g, dia 1 1/2	31	Sd	Pl	C	50	D	J1	Ca, L.
4M1	W. E. Keesler	-----do-----	4-28-50	805 J	J	114	2	S; 5ft., 60g, dia 1 1/2	---	Sd	Pl	C	49	D	-----	---
4M2	L. Kolly	-----do-----	3-6-52	820 J	J	154	2 1/2	S; 5ft., 60g, dia 1 1/2	8	Sd	Pl	C	00	D	-----	---
4M3	A. Parker	-----do-----	12-27-57	825 J	J	162	2 1/2	S; 3ft., 60g, dia 1 1/2	14	Sd, G	Pl	C	67	D	-----	---
4M4	F. Rice, Sr.	-----do-----	9-2-58	---	J	148	2	S; 3ft., 10al, dia 1 1/2	8	Sd	Pl	C	119	D	J1	Sand overlain by 140 ft blue clay; Ca.
4N1	R. Campbell	-----do-----	-----	820 J	J	160	2	S; 3ft., 80g, dia 1 1/2	---	Sd	Pl	---	79	D, S	J3/4	L.
5D1	R. Umbaugh	Striver Drilling Co.	-----	770 J	J	68	2	S; 3ft., 80g, dia 1 1/2	13	Sd	Pl	C	40	D	-----	---
5D2	V. Nemeeth	-----do-----	12-11-51	770 J	J	59	2	S; 3ft., 80g, dia 1 1/2	7	Sd	Pl	C	38	D	-----	---
5F1	E. J. Frushour	-----do-----	-----	780 J	J	97	2	S; 3ft., 80g, dia 1 1/2	43	Sd, G	Pl	U	54	---	J1/2	Yellow sand and gravel overlain by 20 ft yellow clay.
5G1	C. J. Huffman	-----do-----	-----	780 J	J	94	2	S; 3ft., 60g, dia 1 1/2	---	Sd	Pl	---	52	D	J1/2	Sand overlain by 80 ft clay. Hard gravel overlain by 65 ft clay and gravel.
5K1	T. Farris	-----do-----	8-13-50	780 J	J	68	2	S; 3ft., 60g, dia 1 1/2	8	Sd	Pl	C	53	D	-----	---
5K2	P. R. A. Cooper	-----do-----	5-23-49	730 J	J	70	2	-----do-----	11	G	Pl	C	56	---	-----	---
5L1	E. Pinter	-----do-----	8-23-52	790 J	J	68	2	S; 3ft., 60g, dia 1 1/2	---	Sd	Pl	---	01	D	-----	---
5L2	J. Poczak	-----do-----	4-7-47	795 J	J	94	2	S; 3ft., 80g, dia 1 1/2	---	Sd, G	Pl	---	70	D	J3/4	L.
5L3	R. Moore	-----do-----	5-3-48	795 J	J	94	2	-----do-----	19	G	Pl	C	60	D	-----	---
5M1	L. James	-----do-----	8-7-47	785 J	J	80	2	-----do-----	---	Sd, G	Pl	---	34	D	-----	---
5N2	J. J. Pinter	-----do-----	5-20-48	765 J	J	77	2	-----do-----	8	Sd, G	Pl	C	38	D	-----	---
5N3	R. E. Pacey	-----do-----	5-30-50	765 J	J	66	2	S; 3ft., 60g, dia 1 1/2	25	Sd, G	Pl	U	41	D	-----	---
5N4	G. R. Youngs	-----do-----	7-23-52	765 J	J	68	2 1/2	S; 3ft., 60g, dia 1 1/2	10	Sd	Pl	C	34	D	-----	---

38/2-582	R. E. Youngs	Striver Drilling Co.	1950	765 J	65	2	S; 3ft, 100g, dia 1 1/2	96	9	Sd	P1	C	28	---	---	See log well 581; Ca.
591	A. F. Vorkostro	---	4-13-48	820 J	94	2	S; 3ft, 80g, dia 1 1/2	124	10	G	P1	C	82 D	---	---	L.
591	D.	---	---	825 J	134	2	S; 3ft, 100g, dia 1 1/2	124	10	Sd	P1	C	87 D	---	---	L.
592	Stophens	---	5-28-49	785 J	94	2	S; 3ft, 80g, dia 1 1/2	84	10	Sd	P1	C	69 D	---	---	Ca, L.
593	---	---	---	825 J	120	2	S; 3ft, 100g, dia 1 1/2	103	17	G, Sd	P1	U	103 D	---	---	L.
594	---	---	1-24-53	765 J	88	2	S; 3ft, 100g, dia 1 1/2	76	10	Sd, G	P1	C	40 D	---	---	L.
595	---	---	3-2-54	755 J	64	2	S; 3ft, 100g, dia 1 1/2	37	27	Sd	P1	U	37 D, S	---	---	Yellow sand overlain by 38 ft yellow coarse gravel.
596	---	---	---	780 J	60	2	S; 3ft, 80g, dia 1 1/2	50	10	Sd, G	P1	C	34 D	---	---	Ca, L.
597	---	---	2-24-54	780 J	57	2	S; 3ft, 80g, dia 1 1/2	---	---	Sd, G	P1	U	40 D	---	---	L.
598	---	---	---	785 J	78	2	S; 3ft, 80g, dia 1 1/2	---	---	Sd, G	P1	U	40 D	---	---	Ca, L.
599	---	---	---	805 J	52	2	S; 3ft, 60g, dia 1 1/2	35	17	Sd	P1	U	35	---	---	Sand from 0-52 ft.
600	---	---	9-13-50	775 J	64	2	S; 3ft, 80g, dia 1 1/2	40	24	Sd, G	P1	U	40 D	---	---	Sand and gravel from 0-84 ft.
601	---	---	8-15-48	775 J	72	2	S; 3ft, 80g, dia 1 1/2	68	6	Sd	P1	C	40 D	---	---	L.
602	---	---	7-22-48	775 J	81	2	S; 3ft, 80g, dia 1 1/2	48	15	Sd, G	P1	U	46 D	---	---	Sand and gravel from 0-81 ft.
603	---	---	9-7-56	---	160	2	S; 3ft, 60g, dia 1 1/2	143	15	Sd	P1	C	75 D, S	---	---	Ca, L.
604	---	---	---	---	---	2	S; 3ft, 60g, dia 1 1/2	---	---	Sd	P1	U	42 D	---	---	Ca.
605	---	---	7-20-49	---	72	2	S; 3ft, 60g, dia 1 1/2	---	---	Sd	P1	U	24 D	---	---	Ca.
606	---	---	---	---	58	2	S; 3ft, 60g, dia 1 1/2	---	---	Sd	P1	U	24 D	---	---	Sand and gravel overlain by 18 ft clay.
607	---	---	---	845 J	128	2	S; 3ft, 80g, dia 1 1/2	---	---	Sd	P1	U	46 D	---	---	Gravel from 0-84 ft.
608	---	---	---	815 J	166	2	S; 3ft, 80g, dia 1 1/2	---	---	Sd	P1	U	85 D	---	---	Yellow sand and gravel from 0-82 ft.
609	---	---	---	875 Dr	---	6	S; 3ft, 100g, dia 1 1/2	---	---	Sd	P1	U	---	---	---	L.
610	---	---	---	840 J	101	2	S; 3ft, 100g, dia 1 1/2	---	---	Sd	P1	U	26 D, S	---	---	Ca.
611	---	---	---	---	---	1 1/2	S; 3ft, 60g, dia 1 1/2	---	---	Sd, G	P1	U	20 D, S	---	---	Ca.
612	---	---	12-17-51	870 J	112	2	S; 3ft, 60g, dia 1 1/2	90	22	Sd, G	P1	U	90 D	---	---	Sand and gravel overlain by 18 ft clay.
613	---	---	8-22-53	870 J	94	2	S; 3ft, 80g, dia 1 1/2	88	28	G	P1	U	66 D	---	---	Gravel from 0-84 ft.
614	---	---	7-20-51	870 J	92	2	S; 3ft, 80g, dia 1 1/2	85	27	Sd, G	P1	U	85 D	---	---	Yellow sand and gravel from 0-82 ft.
615	---	---	2-12-49	870 J	88	2	S; 3ft, 60g, dia 1 1/2	88	18	G, Sd	P1	U	68 D	---	---	L.
616	---	---	7-30-57	880 J	68	2	S; 3ft, 80g, dia 1 1/2	50	16	Sd, G	P1	U	50	---	---	Yield 10 gpm; sand and gravel from 0-88 ft.
617	---	---	7-23-51	870 J	78	2	S; 3ft, 60g, dia 1 1/2	81	15	Sd, G	P1	U	61 D	---	---	Sand and gravel overlain by 12 ft yellow clay.
618	---	---	---	---	---	2	S; 3ft, 60g, dia 1 1/2	---	---	Sd	P1	U	---	---	---	Observation well St. Joseph 2; water level measured 33.20 below 1st, 10-7-35, ft yellow clay.
619	---	---	---	---	---	2	S; 3ft, 60g, dia 1 1/2	---	---	Sd	P1	U	---	---	---	Sand and gravel overlain by 36 ft yellow clay.
620	---	---	---	---	---	2	S; 3ft, 60g, dia 1 1/2	---	---	Sd, G	P1	U	58 N	---	---	Yield 11 gpm; L.
621	---	---	12-22-48	870 J	80	2	S; 3ft, 60g, dia 1 1/2	86	24	Sd, G	P1	U	45 D	---	---	Sand and gravel overlain by 38 ft clay and gravel.
622	---	---	10-23-59	850 J	76	2	S; 3ft, 80g, dia 1 1/2	83	21	G, Sd	P1	C	82 D	---	---	Red sand and gravel overlain by 35 ft yellow clay.
623	---	---	9-13-48	885 J	86	2	S; 3ft, 80g, dia 1 1/2	82	24	Sd, G	P1	U	53 D	---	---	Sand and gravel overlain by 40 ft blue clay.
624	---	---	4-2-52	855 J	69	2	S; 3ft, 80g, dia 1 1/2	---	---	Sd, G	P1	U	---	---	---	Gravel overlain by 40 ft yellow clay.
625	---	---	---	880 J	89	2	S; 3ft, 60g, dia 1 1/2	---	---	G	P1	U	52 D	---	---	Sand and gravel overlain by 33 ft blue clay.
626	---	---	---	860 J	80	2	S; 3ft, 60g, dia 1 1/2	52	35	G	P1	U	84 D	---	---	L.
627	---	---	---	880 J	79	2	S; 3ft, 100g, dia 1 1/2	64	15	Sd, G	P1	U	57 D	---	---	Yellow sand and gravel overlain by 35 ft blue clay.
628	---	---	10-11-56	880 J	78	2	S; 3ft, 60g, dia 1 1/2	37	19	Sd, G	P1	U	58 D	---	---	L.
629	---	---	8-17-51	860 J	74	2	S; 3ft, 60g, dia 1 1/2	58	16	Sd, G	P1	U	77 D, S	---	---	Sand and gravel overlain by 35 ft blue clay; Ca.
630	---	---	8-10-56	875 J	94	2	S; 3ft, 60g, dia 1 1/2	77	17	Sd	P1	U	60 D	---	---	Yield 40 gpm; L.
631	---	---	7-29-54	860 J	93	2	S; 3ft, 60g, dia 1 1/2	60	33	Sd, G	P1	U	55 N	---	---	L.
632	---	---	8-30-55	885 Dr	58	2	S; 4ft, 60g, dia 1 1/2	---	---	Sd	P1	U	42 D	---	---	Ca.
633	---	---	---	885 Dr	94	4	S; 10ft, 150g	35	39	Sd	P1	U	55 N	---	---	Yield 40 gpm; L.
634	---	---	7-2-53	860 J	97	2	S; 3ft, 60g, dia 1 1/2	48	48	G, Sd	P1	U	48 D	---	---	L.

Table 2.--Records of wells and test holes in St. Joseph 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				
36/2-14B2	R. Lyons	Srivor Drilling Co.	4-25-57	865 J	J	77	2	S; 3 1/2 ft., 60g. dia 1 1/2	59	18	Sd	P1	U	59 D	---	Sand overlain by 30 ft yellow clay.
14F1	F. Goethale	---	8-5-54	860 J	J	75	2	S; 3 ft., 60g. dia 1 1/2	47	28	Sd, G	P1	V	47 D	---	L.
14G1	T. E. McDaniel	---	3-2-46	865 J	J	78	2	do	---	---	Sd	P1	---	60 D	---	L.
14H1	C. Simmons	---	1-18-51	865 J	J	76	2	do	---	---	Sd	P1	---	57 D	---	L.
14I2	F. Kulezar	---	7-27-56	865 J	J	76	2	S; 3 1/2 ft., 60g. dia 1 1/2	57	19	Sd	P1	V	57 D	J3/4	Sand and gravel overlain by 30 ft clay.
14L1	L. Moon	---	6-50	860 J	J	76	2	S; 3 ft., 60g. dia 1 1/2	50	28	Sd, G	P1	V	50 D	---	Ca.
14P1	R. Overmyer	---	8-16-52	860 J	J	70	3	S; 4 ft., 60g. dia 2	35	61	Sd, G, Sd	P1	C	44 D	J1	L.
14R1	C. L. Van Slyk Hawk	---	do	860 Dr	Dr	06	4	S; 1 1/2 ft., 12in	---	---	Sd	P1	---	33 D	J5	L.
16Q1	Mr. Peterson	---	6-14-46	860 J	J	76	2	S; 3 ft., 60g. dia 1 1/2	---	---	Sd, G	P1	---	50 D	L	Ca.
17L1	A. Szabo	---	6-2-48	875 J	J	76	2	do	---	---	Sd, G	P1	---	58	---	Ca., L.
18C1	M. Summers	---	10-14-57	---	Dr	130	4	S; 10 ft., 10in	---	---	Sd, G	P1	---	48 S	---	---
18Q1	A. Gorbics	---	---	840 J	J	64	2	S; 3 1/2 ft., 10in	---	---	Sd, G	P1	---	36 S	---	---
19F1	L. Lawin	---	---	850 J	J	58	2	S; 3 ft., 60g. dia 1 1/2	---	---	Sd	P1	---	48	J1/3	Yield 5 gpm.
20A1	W. D. Reuser	Srivor Drilling Co.	7-26-48	870 J	J	79	2	do	62	17	Sd, G	P1	U	62 D, S	J	Sand and gravel overlain by 40 ft clay; Ca.
20B1	J. Andert	---	8-4-55	870 J	J	79	3	S; 3 1/2 ft., 60g. dia 1 1/2	64	15	Sd	P1	U	84 D, S	J1	Ca., L.
20C1	D. Dennison	---	11-14-56	860 J	J	76	2	S; 3 ft., 60g. dia 1 1/2	---	---	Sd	P1	---	60	J1	Ca., L.
21D1	H. Geyer	---	6-50	870 J	J	110	2	S; 3 ft., 10in	---	---	Sd	P1	---	39	J1/2	Ca.
21N1	E. L. Watkins	---	---	850 J	J	58	2	S; 3 1/2 ft., 60g. dia 1 1/2	---	---	Sd	P1	---	33	J1/2	---
21P1	R. Stephens	Srivor Drilling Co.	---	850 J	J	70	2	S; 3 ft., 60g. dia 1 1/2	---	---	Sd, G	P1	---	14	---	Ca., L.
22F1	H. L. Carr	---	8-1-53	865 J	J	100	2	do	67	33	Sd, G	P1	U	67 D	J1/2	---
23D1	G. Strickler	---	5-15-47	855 J	J	80	2	do	---	---	Sd, G	P1	---	55	Jr	Gray sand and gravel overlain by 42 ft blue clay; Ca.
24B1	C. Good	---	9-3-52	855 J	J	71	2	S; 3 1/2 ft., 60g. dia 1 1/2	47	24	Sd, G	P1	U	47 D, S	---	---
24M1	S. Rucci	---	---	850 J	J	85	2	S	---	---	Sd	P1	---	50	D, S	Sand and gravel overlain by 55 ft yellow clay.
24N2	L. E. Pittman	---	---	845 J	J	68	2	S; 3 ft., 60g. dia 1 1/2	---	---	Sd	P1	---	42	D	---
24N1	C. Casper	W. Rodgers	4-25-56	845 J	J	60	2	S; 3 ft., 10in	55	5	Sd, G	P1	C	40 D	L	---
25C1	H. Wright	---	10-57	850 J	J	120	2	S; 4 ft., 60g	---	---	Sd, G	P1	---	45	D, S	Ca., L.
25E1	D. Whaley	---	---	845 J	J	60	2	S	---	---	Sd	P1	---	---	J1/2	---
25F1	C. Good	Srivor Drilling Co.	8-4-51	840 J	J	79	2 1/2	S; 5 ft., 60g. dia 1 1/2	68	11	Sd	P1	C	24 D, S	---	Yellow sand and gravel overlain by 15 ft yellow clay.
26B1	M. A. Matlino	---	---	850 J	J	58	2	S; 3 ft., 60g. dia 1 1/2	---	---	Sd	P1	---	39	J3/4	Yellow sand and gravel overlain by 30 ft blue clay.
26C1	Mr. King	Srivor Drilling Co.	---	855 J	J	81	2	do	54	27	Sd, G	P1	U	54	---	---
26D1	Mr. Kipp	---	---	855 J	J	57	2	do	41	16	Sd, G	P1	V	41 D	---	---
26E2	J. Auer	---	9-17-48	855 J	J	77	2	do	---	---	Sd	P1	---	52	D	Ca.
26S0	D. H. Thomas	---	---	855 J	J	75	2	do	---	---	Sd	P1	---	47	D	Yield 15 gpm; sand and hardpan from 0-80 ft.
26S1	H. M. Vincent	C. Rouch	9-6-57	855 J	J	80	2	S; 4 ft., 60g	---	---	Sd	P1	---	50	D, S	Sand and gravel overlain by 17 ft clay.
26H1	H. Annis	Srivor Drilling Co.	9-8-49	840 J	J	44	2	S; 3 ft., 60g. dia 1 1/2	28	10	Sd, G	P1	U	28 D	---	Sand and gravel overlain by 40 ft clay.
26J1	---	---	0-50	840 J	J	56	2	do	40	16	Sd, G	P1	---	26	D	---
26J2	Annis Bros.	---	11-21-50	840 J	J	53	2	S; 3 1/2 ft., 60g. dia 1 1/2	---	---	Sd, G	P1	---	31	D	---

Well No.	Owner	Company	Date	Depth (ft)	Drill Bit (dia)	Flow Rate (gpm)	Pressure (psi)	Water Level (ft)	Gravel (ft)	Clay (ft)	Notes
36/2-28J3	H. Annie	Spraver Drilling Co.	3-24-52	81	2 5/8" ft, 10 1/2" dia	840 J	103	42	19	56	Dark sand overlain by 42 ft blue clay.
26W1	J. Kafafet	---	8-6-52	67	2 5/8" ft, 10 1/2" dia	855 J	108	38	26	84	Dark sand overlain by 42 ft blue clay.
27A1	K. Lieber	---	3-20-52	76	2 5/8" ft, 10 1/2" dia	855 J	108	48	27	84	Dark sand overlain by 42 ft blue clay.
27A2	F. Walters	---	8-26-52	60	2 5/8" ft, 10 1/2" dia	860 J	92	---	---	---	Dark sand overlain by 42 ft blue clay.
27A1	R. Schafar	---	8-26-52	60	2 5/8" ft, 10 1/2" dia	860 J	92	---	---	---	Dark sand overlain by 42 ft blue clay.
28H1	F. Dahn	---	---	36	2 5/8" ft, 10 1/2" dia	845 J	73	---	---	---	Dark sand overlain by 42 ft blue clay.
28P1	G. E. Barton	Spraver Drilling Co.	7-10-51	41	2 5/8" ft, 10 1/2" dia	800 J	108	21	20	6	Gravel and sand overlain by 8 ft yellow clay.
30C1	H. Roxstrow	---	9-1-51	108	2 5/8" ft, 10 1/2" dia	810 J	108	102	7	84	Gravel and sand overlain by 8 ft yellow clay.
30K1	C. Nueoth	---	8-7-53	73	2 5/8" ft, 10 1/2" dia	770 J	73	58	15	84	Gravel and sand overlain by 8 ft yellow clay.
31C1	H. Moon	---	8-23-45	73	2 5/8" ft, 10 1/2" dia	780 J	73	---	---	---	Gravel and sand overlain by 8 ft yellow clay.
32B1	J. Basyk	---	9-9-54	91	2 5/8" ft, 10 1/2" dia	835 J	123	65	26	84	Gravel and sand overlain by 8 ft yellow clay.
32J1	V. Six	---	3-18-46	123	2 5/8" ft, 10 1/2" dia	870 J	123	43	30	84	Gravel and sand overlain by 8 ft yellow clay.
32N1	Wabash Railroad Co.	Indiana-Michigan Water Development Co.	6-17-41	92	2 5/8" ft, 10 1/2" dia	824 Dr	92	43	30	84	Gravel and sand overlain by 8 ft yellow clay.
32H1	M. H. Goucher	Spraver Drilling Co.	---	103	2 5/8" ft, 10 1/2" dia	885 J	103	---	---	---	Gravel and sand overlain by 8 ft yellow clay.
32R1	J. Metz	---	11-21-53	184	2 5/8" ft, 10 1/2" dia	885 J	184	140	9	84	Gravel and sand overlain by 8 ft yellow clay.
33Q1	A. C. Milowski	---	9-3-52	183	2 5/8" ft, 10 1/2" dia	860 J	183	177	6	84	Gravel and sand overlain by 8 ft yellow clay.
33R1	N. Grzesink	C. Rouch	6-57	48	2 5/8" ft, 10 1/2" dia	850 J	48	---	---	---	Gravel and sand overlain by 8 ft yellow clay.
34J1	Town of Lakaville	Layne-Northern Co., Inc.	2-23-38	84	2 5/8" ft, 10 1/2" dia	845 Dr	84	31	53	84	Gravel and sand overlain by 8 ft yellow clay.
34R1	Fortlio Acres Dairy	Indiana-Michigan Water Development Co.	7-23-47	81	2 5/8" ft, 10 1/2" dia	845 Dr	81	---	---	---	Gravel and sand overlain by 8 ft yellow clay.
35L1	G. Dighl	Spraver Drilling Co.	3-24-56	58	2 5/8" ft, 10 1/2" dia	840 J	58	46	12	84	Gravel and sand overlain by 8 ft yellow clay.
35M1	M. Clark	---	2-27-53	39	2 5/8" ft, 10 1/2" dia	840 J	39	---	---	---	Gravel and sand overlain by 8 ft yellow clay.
36C1	R. Wright	C. Rouch	8-3-57	58	2 5/8" ft, 10 1/2" dia	840 J	58	54	4	84	Gravel and sand overlain by 8 ft yellow clay.
36J-1M1	L. Holmes	Spraver Drilling Co.	9-1-53	98	2 5/8" ft, 10 1/2" dia	855 J	98	73	25	84	Gravel and sand overlain by 8 ft yellow clay.
36J-1M2	D. Sharp	---	10-11-55	99	2 5/8" ft, 10 1/2" dia	855 J	99	80	19	84	Gravel and sand overlain by 8 ft yellow clay.
1N1	C. Ward	---	---	108	2 5/8" ft, 10 1/2" dia	855 J	108	80	28	84	Gravel and sand overlain by 8 ft yellow clay.
1P1	G. C. Avery	---	5-24-50	116	2 5/8" ft, 10 1/2" dia	850 J	116	108	8	84	Gravel and sand overlain by 8 ft yellow clay.
2D1	A. Sloss	---	8-10-50	99	2 5/8" ft, 10 1/2" dia	850 J	99	73	23	84	Gravel and sand overlain by 8 ft yellow clay.
2E1	E. Walters	---	1-27-47	112	2 5/8" ft, 10 1/2" dia	850 J	112	---	---	---	Gravel and sand overlain by 8 ft yellow clay.
2E2	J. De Witto	---	4-15-49	99	2 5/8" ft, 10 1/2" dia	855 J	99	70	14	84	Gravel and sand overlain by 8 ft yellow clay.
2F1	G. Hahn	---	3-10-51	115	2 5/8" ft, 10 1/2" dia	850 J	115	84	31	84	Gravel and sand overlain by 8 ft yellow clay.
2M1	R. Parcell	---	4-23-57	131	2 5/8" ft, 10 1/2" dia	850 J	131	90	41	84	Gravel and sand overlain by 8 ft yellow clay.
2Q1	R. Jaqua	---	---	98	2 5/8" ft, 10 1/2" dia	860 J	98	---	---	---	Gravel and sand overlain by 8 ft yellow clay.
2R1	D. Byrd	Spraver Drilling Co.	2-25-58	113	2 5/8" ft, 10 1/2" dia	855 J	113	94	19	84	Gravel and sand overlain by 8 ft yellow clay.
3E1	C. Geyer	Kennedy Well Service	9-18-55	92	2 5/8" ft, 10 1/2" dia	800 J	92	---	---	---	Gravel and sand overlain by 8 ft yellow clay.
3E2	Contact Lumber Co.	---	9-14-55	93	2 5/8" ft, 10 1/2" dia	860 J	93	78	39	84	Gravel and sand overlain by 8 ft yellow clay.
3E3	A. Moody	Spraver Drilling Co.	9-8-52	117	2 5/8" ft, 10 1/2" dia	870 J	117	60	34	84	Gravel and sand overlain by 8 ft yellow clay.
3E4	S. Crothers	---	8-20-54	99	2 5/8" ft, 10 1/2" dia	870 J	99	76	34	84	Gravel and sand overlain by 8 ft yellow clay.
3E5	F. B. Innis	---	10-14-57	94	2 5/8" ft, 10 1/2" dia	870 J	94	60	34	84	Gravel and sand overlain by 8 ft yellow clay.
3F1	R. O. Johnson	---	6-16-54	101	2 5/8" ft, 10 1/2" dia	870 J	101	76	35	84	Gravel and sand overlain by 8 ft yellow clay.
3G1	H. G. Merrick	---	---	90	2 5/8" ft, 10 1/2" dia	860 J	90	80	22	84	Gravel and sand overlain by 8 ft yellow clay.
4J1	K. Crofoot	Spraver Drilling Co.	2-12-54	102	2 5/8" ft, 10 1/2" dia	870 J	102	62	31	84	Gravel and sand overlain by 8 ft yellow clay.
5N1	W. Reith	---	7-15-56	93	2 5/8" ft, 10 1/2" dia	860 J	93	62	31	84	Gravel and sand overlain by 8 ft yellow clay.
5R1	L. K. Harris	Spraver Drilling Co.	---	70	2 5/8" ft, 10 1/2" dia	855 J	70	---	---	---	Gravel and sand overlain by 8 ft yellow clay.
7A1	H. Leach	---	1937	82	2 5/8" ft, 10 1/2" dia	855 J	82	62	30	84	Gravel and sand overlain by 8 ft yellow clay.
7B1	F. Koglewich	---	1-28-58	82	2 5/8" ft, 10 1/2" dia	855 J	82	62	30	84	Gravel and sand overlain by 8 ft yellow clay.

36/2-28J3

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

Well	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone				Use	Type of pump and horsepower	Remarks
									Depth to top (feet)	Thickness (feet)	Character	Geologic age			
3671-701	C. Shafer	Spriver Drilling Co.	10-10-53	850 J	J	210	2	S; 5 1/2 ft, 60g. dia 1	---	---	---	---	---	---	Ca., L.
701	M. Kerekhov	do	9-4-45	850 J	J	82	3	S; 5 1/2 ft, 80g. dia 2	---	---	---	---	---	---	Ca.
701	W. Shoresmeyer	do	5-18-57	850 J	J	88	2 1/2	S; 4 1/2 ft, 60g. dia	---	---	---	---	---	---	---
701	M. Fahl	do	---	850 J	J	84	2	S; 3 1/2 ft, 60g. dia	---	---	---	---	---	---	---
801	P. Ruff	C. Rouch	---	855 J	J	100	2	S; 3 1/2 ft, 60g. dia 1	7	Sd, G	Pl	C	D	L	Yield 14 gpm; Ca., L.
801	R. C. Samuels	do	---	850 J	J	73	2	S; 3 1/2 ft, 60g. dia 1	---	---	---	---	---	---	Sand and gravel overlain by 85 ft yellow clay.
801	G. LaFroo	do	---	870 J	J	105	2	S; 3 1/2 ft, 60g. dia	---	---	---	---	---	---	---
901	D. Anthony	W. Rodgers	7-19-54	850 J	J	81	2	S; 3 1/2 ft, 10ml. dia	---	---	---	---	---	---	---
902	F. Anthony	do	---	850 J	J	78	2	S; 3 1/2 ft, 60g. dia 1 1/2	---	---	---	---	---	---	L.
1001	R. C. Samuels	Spriver Drilling Co.	6-11-50	845 J	J	95	2	S; 4 1/2 ft, 60g. dia	---	---	---	---	---	---	---
1001	K. H. Felton	do	12-13-52	845 J	J	88	2	S; 3 1/2 ft, 60g. dia	60	28	Sd, G	Pl	C	D	Yellow sand and gravel overlain by 80 ft blue and gray clay and gravel. Sand and gravel overlain by 60 ft tough gravelly clay. Sand and gravel overlain by 45 ft clay; Ca.
1002	H. J. Deahler	do	7-3-47	845 J	J	94	2	S; 3 ft, 60g. dia 1 1/2	00	34	Sd, G	Pl	C	D	---
1101	R. Dekhart	do	11-8-57	850 J	J	98	2	S; 3 1/2 ft, 10ml. dia	81	17	Sd, G	Pl	U	D	---
1501	C. Trippel	do	---	845 J	J	75	2	S; 3 1/2 ft, 60g. dia	---	---	---	---	---	---	---
1501	R. Frick	Spriver Drilling Co.	4-19-50	845 J	J	94	2	do	85	9	Sd, G	Pl	C	D	---
1501	St. Joseph County	do	1-30-50	845 J	J	94	2	do	78	16	Sd	Pl	C	D	---
1502	Mr. Newcomer	do	11-50	840 J	J	92	2	S; 3 ft, 60g. dia 1 1/2	70	16	Sd	Pl	C	D	---
1502	L. Marker	do	1952	845 J	J	93	2	S; 3 1/2 ft, 10ml. dia 1 1/2	78	15	Sd, G	Pl	C	D	---
1601	C. Stuber	do	---	850 J	J	80	2	S; 3 ft, 60g. dia 1 1/2	72	8	Sd	Pl	C	D	---
1601	F. Klime	do	2-19-51	850 J	J	94	2	S; 3 1/2 ft, 60g. dia	72	22	Sd	Pl	C	D	---
1601	N. D. Craighend	do	9-14-50	845 J	J	94	2	S; 3 ft, 60g. dia 1 1/2	80	14	Sd, G	Pl	C	D	---
1601	K. Weil	do	7-18-47	845 J	J	94	2	do	60	14	Sd	Pl	C	D	---
1601	P. Koblid	do	8-50	845 J	J	94	2	do	85	9	Sd	Pl	C	D	---
1701	C. Harlein	do	11-19-52	845 J	J	69	3	S; 5 ft, 60g. dia 2	62	7	Sd, G	Pl	U	D	---
1701	do	do	3-28-48	845 J	J	78	2	S; 3 ft, 60g. dia 1 1/2	---	---	---	---	---	---	---
1702	R. Dunning	do	4-18-50	845 J	J	80	2	S; 3 1/2 ft, 60g. dia 1 1/2	57	23	Sd, G	Pl	U	D	---
1701	Z. Myers	do	7-2-40	840 J	J	78	2	S; 3 ft, 60g. dia 1 1/2	---	---	---	---	---	---	---
1701	F. Pasenacht	do	3-53	840 J	J	62	2	S; 3 1/2 ft, 80g. dia 1	---	---	---	---	---	---	---
1701	W. Kohlhardt	do	2-53	840 J	J	57	2	S; 3 ft, 60g. dia 1 1/2	40	17	Sd, G	Pl	C	D	---
1701	S. Horvath	do	0-13-52	840 J	J	78	2	do	---	---	---	---	---	---	---
1801	G. LaFroo	do	0-13-52	845 J	J	68	2	S; 3 1/2 ft, 60g. dia	---	---	---	---	---	---	---
1801	G. Schutz	do	1-15-47	845 J	J	55	2	S; 3 ft, 60g. dia 1 1/2	---	---	---	---	---	---	---
1801	G. LaFroo	Spriver Drilling Co.	9-24-49	860 J	J	75	2	do	58	17	Sd, G	Pl	U	D	Sand and gravel overlain by 20 ft blue clay.

Well No.	Owner	Company	Date	Well No.	Depth	Strat.	Diag.	Flow	Yield	Notes
1861	L. J. Alford			860 J	80	2	5; 3ft, 60g, dia 2			Ca.
1861	L. Kurz	Striver Drilling Co.	12-1-45	865 J	97	2	5; 3ft, 60g, dia 2			Ca.
1861	R. C. Brown	do		870 J	124	2	5; 3ft, 10sl, dia 1	100		Yellow sand and gravel overlain by 100 ft blue clay.
1862	P. Schafer	do	7-22-46	875 J	112	2	5; 3ft, 60g, dia 1			L.
1863	C. Schaffer	Striver Drilling Co.	3-24-52	870 J	113	2	5; 3ft, 60g, dia 1	90		
1864	Mr. Henderson	do		870 J	123	2	5; 3ft, 60g, dia 1			
1865	Mr. Schocker	Striver Drilling Co.	5-12-52	885 J	148	2	5; 3ft, 60g, dia 1			
1866	Mr. Braniff	do		870 J	123	2	5; 3ft, 10sl, dia 1	80		See log well 19CA.
1867	B. B. Henderson	D. J. Lewis and Sons	10-14-59	870 J	137	4	5; 3ft, 80g, dia 1	104		
1868	P. C. Strandley	Striver Drilling Co.	7-27-51	880 J	115	3	5; 3ft, 60g, dia 2			
1901	D. Schaffer	C. Rouch	5-37	875 J	112	3	5; 6ft, 60g	60		
1901	W. Zaiger	do	11-35	885 J	140	3	5; 6ft, 60g			
21A1	W. J. Bluo	Striver Drilling Co.	4-28-51	830 J	116	3	5; 5ft, 60g, dia 2	102		Sand and gravel overlain by 102 ft blue clay and cobbles.
21C1	E. Manley	do	10-3-47	845 J	94	2	5; 3ft, 60g, dia 1 1/2			
21D1	L. Frick	do	6-22-57	840 J	74	2	5; 3ft, 60g, dia 1 1/2	60		
21E1	R. Frick	do		840 J	125	2	5; 3ft, 60g, dia 1			
21R1	F. Traub	C. Rouch	8-28-57	835 J	103	2	5; 3ft, 60g	97		
22E1	R. Kilno	Striver Drilling Co.	4-10-48	840 J	105	2	5; 3ft, 60g, dia 1			
23C1	C. L. Amick	B. J. Moore and Son	6-4-59	850 Dr	100	4	5; 3ft, 27al, dia 1 1/2	86		Brown gravelly coarse sand overlain by 86 ft blue clay; ev. sandy, gravelly hardpan; Ca.
24B1	W. Seator	Striver Drilling Co.	6-24-46	850 J	130	2	5; 3ft, 60g, dia 1 1/2			No water reported; bedrock at 177 ft; L.
27A1	W. Goyer	do	11-1-46	845 J	177	2				
30A1	H. R. McCausian	do		885 J	125	2	5; 3ft, 60g, dia 1 1/2			
30B1	E. Rausch	do		885 J	120	2	5; 3ft, 60g, dia 1 1/2			
30D1	D. Stoner	Striver Drilling Co.	2-27-53	845 J	80	2	5; 3ft, 60g	50		
30H1	F. Warner	do	12-27-52	875 J	114	2	5; 3ft, 60g	105		
32C1	H. C. Murrator	C. Rouch	8-14-59	850 J	120	4	5; 6ft, 10sl, dia 3	100		
33Q1	J. Menaker	do		---	13					
34L1	L. Chalk	Striver Drilling Co.	12-1-51	830 J	95	2	5; 3ft, 10sl, dia 1 1/2	87		
35B1	C. Kilno	do	8-50	840 J	108	2	5; 3ft, 60g, dia 1 1/2	101		
35B2	do	do	12-14-49	840 J	105	2	5; 3ft, 60g, dia 1 1/2	100		
36/A-5M1	F. Wald	do	3-1-51	830 J	118	2	5; 3ft, 60g, dia 1 1/2	110		
6D1	A. P. Van Duran	do	11-24-44	850 J	112	2	5; 3ft, 80g, dia 1 1/2			
6M1	R. Berden	do	11-11-59	840 J	76	2	5; 3ft, 60g, dia 1 1/2	52		
16E1	L. W. Ströcher	B. J. Moore and Son	8-2-50	820 J	133	2	5; 20ft, 88g			
17Q1	K. Berkey	W. Rodgers	7-17-53	830 J	123	2	5; 3ft, 60g, dia 1	118		
19A1	C. and A. Cannoot	D. J. Moore and Son	8-20-51	---	117	2	5; 3ft, 60g, dia 1	115		
29A1	Overholt Sisters	do		835 J	45	2	5; 3ft, 60g, dia 1			
29A2	do	Striver Drilling Co.	9-3-59	835 J	44	2	5; 3ft, 60g, dia 1	20		
30D1	M. Yedor	do		835 J	145	2	5; 3ft, 60g, dia 1			
32R1	K. C. Rönaberger	Striver Drilling Co.	11-18-52	830 J	48	2	5; 3ft, 60g, dia 1	12		
33R1	M. H. Lantz	do	5-2-49	835 J	90	2	5; 3ft, 60g, dia 1 1/2			

Table 2.--Records of wells and test holes in St. Joseph 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 era					Conditions of occurrence
37/W-281	Mr. Grimes	Hunt Hoosier Hardware	9-6-56	781 J	J	47	2	S; 3½ ft, 60g, dia 1	34	13	Sd	P1 U	U	34	D	J1/2	Yield 13 gpm; coarse brown sand overlain by 40 ft brown sand and dirt; Ca.
1101	A. Kitchen	-----do-----	11-1-57	850 Dr.	Dr.	180	3	S; 4ft, 10gal	126	34	Sd	P1 U	U	126	D	-----	-----
14W1	Studebaker Corp.	Indiana-Michigan Water Development Co.	5-9-43	735 Dr.	Dr.	60	6	S; 20ft, 50g, dia 4	8	52	Sd	P1 U	U	8	T	TJ	Dd 8 ft pumping 90 gpm; well S; 24-10 (KS, 1948); Ca, L. Oil test; bedrock at 287 ft.
13F1	I. F. and M. J. Isaac	-----do-----	10-12-46	850 Dr.	Dr.	1,017	10	-----do-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
24D1	Tri-County Farms	Layne-Northern Co., Inc.	8-26-46	717 Dr.	Dr.	119	6	S; 3ft, 80g, dia 1½	4	44	Sd,G	P1 U	U	4	Do	-----	Sand and gravel from 0-46 ft; Ca.
24J1	E. Surma	Striver Drilling Co.	1-29-49	710 J	J	48	2	S; 3ft, 80g, dia 1½	30	21	Sd,G	P1 U	U	30	Do	J1-1/2	Sand and gravel from 0-51 ft. Ca, L.
37/1-181	W. Biggs	-----do-----	6-9-52	750 J	J	51	3	S	33	33	Sd,G	P1 U	U	33	D	-----	-----
111	Y. R. Danison	-----do-----	7-11-53	742 Dr.	Dr.	88	4	S; 8ft, 10gal	8	54	Sd,G	P1 U	U	8	Ir, P	T15	Dd 3 ft pumping 200 gpm; L.
1W1	South Bend Country Club	Indiana-Michigan Water Development Co.	10-31	735 Dr.	Dr.	62	10	S; 15 ft, 30gal, dia 9½	2	70	Sd,G	P1 U	U	2	Ir, P	T10	Dd 7 ft pumping 1,000 gpm; Ca, L. 80 gpm; Ca, L.
1W2	-----do-----	Michigan Drilling Co.	4-30-34	720 Dr.	Dr.	78	10	-----do-----	40	64	G, Sd	P1 U	U	40	P	S	Dd 10 ft after 4.5 hr pumping. Sand and gravel from 0-40 ft. Yield 13 gpm; L.
2G1	Warren Township Trustees	-----do-----	8-22-56	748 Dr.	Dr.	100	6	S	7	33	Sd,G	P1 U	U	7	D	-----	Oil test; bedrock at 163 ft.
7C1	Mr. King	Striver Drilling Co.	7-31-48	732 J	J	40	2	S; 3ft, 60g, dia 1½	69	20	G, Sd	P1 U	U	69	D	-----	Dark sand and gravel from 0-38 ft; Ca.
7F1	O. Gardner	Hunt Hoosier Hardware	8-20-57	728 J	J	89	2	S; 4ft, 60g, dia 1	7	32	Sd,G	P1 U	U	7	D	-----	Sand and gravel from 0-44 ft.
8C1	J. Kush	-----do-----	9-27-49	727 Dr.	Dr.	1,016	-----	-----do-----	12	34	Sd,G	P1 U	U	12	D	-----	Dd 1 ft pumping 35 gpm; water level measured 8.8 ft below top of well.
9F1	E. Cintor	Striver Drilling Co.	5-15-52	717 J	J	58	2	S; 3ft, 80g, dia 1½	7	51	Sd,G	P1 U	U	7	D	-----	Sand overlain by 40 ft gravel; Ca.
9L1	T. Klodzynski	-----do-----	6-24-52	717 J	J	44	2	-----do-----	11	35	G, Sd	P1 U	U	11	D	-----	-----
10R1	Mr. Stone	Indiana-Michigan Water Development Co.	7-16-47	717 Dr.	Dr.	41	6	S; 10ft, 65gal, dia 5½	28	16	Sd,G	P1 U	U	28	D	-----	Yellow gravel overlain by 40 ft yellow sand.
11A1	J. Oglesby	Striver Drilling Co.	-----	748 J	J	46	2	S; 3ft, 60g, dia 1½	25	15	Sd	P1 U	U	25	D	-----	Yield 10 gpm; sand from 0-40 ft.
11B1	J. Raffle	-----do-----	3-24-50	742 J	J	55	2	S; 3ft, 60g, dia 1½	19	21	Sd	P1 U	U	19	D	-----	Sand from 0-40 ft; Ca.
11B2	E. VandeZande	-----do-----	7-16-53	740 J	J	46	2	S; 3ft, 10gal, dia 1½	30	16	Sd,G	P1 U	U	30	D	-----	-----
11B3	G. Davis	R. Buddish	7-3-57	746 J	J	40	2	S; 3ft, 60g, dia 1½	25	15	Sd	P1 U	U	25	D	-----	-----
11E1	F. Smith	Striver Drilling Co.	8-2-57	728 J	J	40	2	-----do-----	19	21	Sd	P1 U	U	19	D	J1/2	-----
11R1	P. Love	-----do-----	6-28-52	726 Dr.	Dr.	25	2	S; 4ft, 60g, dia 2	7	-----	Sd	P1 U	U	7	D	J3/4	-----
12J1	O. Sharp	-----do-----	-----	752 J	J	51	2	S; 3ft, 60g, dia 1½	-----	-----	Sd	P1 U	U	-----	-----	-----	-----
12Q1	R. Rull	-----do-----	-----	734 J	J	38	2	S; 3ft, 60g, dia 1½	-----	-----	Sd	P1 U	U	-----	-----	-----	-----
13C1	R. Johnson	Striver Drilling Co.	2-4-54	740 J	J	40	2	S; 3ft, 60g, dia 1½	26	13	Sd	P1 U	U	26	D	J1/2	Coarse sand from 0-39 ft.
13E1	Mr. Connolly	W. Rodgers	7-31	733 J	J	39	2	S; 3ft, 10gal, dia 1½	15	30	Sd,G	P1 U	U	15	D	-----	Yellow sand and gravel from 0-45 ft; Ca.
13L1	Mr. Przybylski	Striver Drilling Co.	12-13-53	722 J	J	45	2	S; 3ft, 60g, dia 1½	-----	-----	Sd	P1 U	U	-----	0	-----	Observation well St. Joseph 18; water level measured 24.54 ft below top of well.
13Q1	C. Sargent	-----do-----	-----	745 Dr.	Dr.	27	1½	-----do-----	-----	-----	Sd	P1 U	U	-----	-----	-----	-----
14A1	Y. Moody	Striver Drilling Co.	1953	730 J	J	44	2	S; 3ft, 60g, dia 1½	19	25	Sd,G	P1 U	U	19	D	J1/2	Yield 4 gpm; difficult area to obtain water; Ca, L.
23Q1	N. Peterson	-----do-----	12-2-47	712 J	J	31	2	S; 4ft, 90g, dia 1	27	4	Sd	P1 C	C	10	-----	J1/2	Sand and gravel from 0-10 ft; Ca.
24D1	J. Barlick	-----do-----	-----	734 J	J	40	2	S; 3ft, 60g, dia 1½	26	14	Sd,G	P1 U	U	26	D	J	-----

Well No.	Owner	Company	Date	Drill	Depth	3	39	3	10	29	Sd.G	P1	U	10	D	J1	Notes
37/1-24E1	T. Worman																Sand and gravel from 0-39 ft; clay at 39 ft; Ca. Yield 8 gpm; L.
J2E1	S. Toth	Keede and Keel Well Drilling Co.	11-19-57	720 J	17	13	17	S; 5ft, 60g, dia 1 1/2	10	7	Sd	P1	U	10	D	J	
J2H1	S. Kulwici	Watts Hoelzer Hardware	11-17-59	702 Dn	22	3	22	S; 4ft, 60g, dia 1 1/2	10	12	G, Sd	P1	U	10	D	J	
33F1	R. Galvas	Lyvo Drilling Co.	11-28-49	700 J	37	2	37	S; 3 1/2 ft, 80g, dia 1 1/2	---	---	Sd	P1	U	10	D	J	
38E1	Kankakee Valley Foods	Layne-Northern Co., Inc.	3-18-42	715 Dr	138	10	138	S; 10ft, 130ml, dia 6 1/2	---	---	Sd.G	P1	U	11	N	J	Dd 99 ft pumping 350 gpm; bedrock at 136 ft; L.
36L1	Targatt Nursoria	Lyvo Drilling Co.		735 J	46	2	46	S; 3 1/2 ft, 10ml, dia 1 1/2	22	25	Sd.G	P1	U	22	D	J	Yellow sand and gravel from 0-47 ft.
38P1	Mrs. O. E. Fisher	Lyvo Drilling Co.		735 J	108	6	108	S; 3 1/2 ft, 80g, dia 1 1/2	19	27	Sd.G	P1	U	10	---	J	Yellow sand and gravel from 0-48 ft.
37/2-1P1	City of South Bend	Layne-Northern Co., Inc.	7-25-58	672 Dr	104	38	104	Gp; S; 30ft, 80ml, dia 2 1/2	65	39	Sd.G	P1	C	---	P	T50	Yield 2,100 gpm; flowed; L.
1P2	---	---	2-4-57	672 Dr	55	8	55	---	25	15	Sd	P1	U	25	T	---	L.
1L1	Nolan Construction Co.	---	7-1-50	710 Dr	50	6	50	---	18	11	Sd	P1	U	18	T	---	L.
1L2	---	---	7-8-50	695 Dr	100	6	100	---	58	44	Sd.G	P1	C	5	T	---	See log well 1L5; well SJ 1-T1 (KS, 1948).
1L3	City of South Bend	---	7-15-39	680 Dr	103	50	103	Gp; S; 20ft, 205ml, dia 3/8	76	27	Sd.G	P1	C	3	P	T	Dd 24.8 ft after 10 hr pumping 2,220 gpm; well SJ 1-53 (KS, 1948); L.
1L4	---	---	9-21-30	680 Dr	110	6	110	---	---	---	Sd.G	P1	U	---	T	---	Well SJ 1-72 (KS, 1948); L.
1L5	---	---	12-14-39	680 Dr	110	6	110	---	68	42	G	P1	C	9	T	---	Bedrock at 110 ft; well SJ 1-T4 (KS, 1948); L.
1L6	---	---	1-13-40	678 Dr	110	6	110	---	---	---	Sd.G	P1	C	2	P	T	Dd 24.25 ft after 10 hr pumping 2,200 gpm; bedrock at 110 ft; see log well 1L5; well SJ 1-54 (KS, 1948).
1L7	---	---	2-14-40	679 Dr	110	38	110	Gp; S; 20ft, 205ml, dia 3/8	54	56	Sd.G	P1	C	2	P	T	Dd 21 ft after 9 hr pumping 1,500 gpm; see log well 1L6.
1L8	---	---	8-17-49	678 Dr	105	38	105	Gp; S; 30ft, 105ml, dia 2 1/2	75	30	G, Sd	P1	C	17	P	T40	Yield estimated at 125 g/r ft; dd; bedrock at 112 ft; well SJ 1-T3 (KS, 1948); L.
1M1	---	---	12-30-30	675 Dr	114	6	114	---	54	58	G, Sd	P1	C	---	T	---	Dd 34.8 ft after 10 hr pumping 2,200 gpm; see log well 1M1; well SJ 1-55 (KS, 1948).
1M2	---	---	4-24-40	679 Dr	112	50-38	112	Gp; S; 20ft, 105ml, dia 3/8	67	45	G, Sd	P1	C	0	N	---	Bedrock at 121 ft; L.
1M3	---	---	11-8-45	695 Dr	125	50	125	Gp; S; 20ft, 205ml, dia 3/8	62	59	G, Sd	P1	C	13	P	---	Dd 32 ft pumping 2,100 gpm; see log well 1M3.
1M4	---	---	1-3-47	695 Dr	113	38	113	Gp; S; 20ft, 180ml, dia 3/8	63	50	G, Sd	P1	C	12	P	750	
1M5	---	---	6-12-51	675 Dr	110	38	110	Gp; S; 30ft, 105ml, dia 2 1/2	80	30	Sd.G	P1	C	+2	P	750	Dd 38 ft after 8 hr pumping 1,520 gpm; see log well 1M5.
1M6	International Business Machines Corp.	---	12-16-56	685 Dr	111	---	111	S	78	35	G, Sd	P1	C	16	Ac	77-1/2	L.
1P1	---	---		691 Dr	120	10	120	---	---	---	Sd.G	P1	---	---	I	T25	Yield 500 gpm; well SJ 30-2 (KS, 1948).
1P2	---	A. L. Cox Co., Inc.	1945	691 Dr	120	10	120	---	---	---	Sd.G	P1	---	---	I	C25	Yield 500 gpm; well SJ 30-1 (KS, 1948); Ca.
1P3	I. D. Lov Co., Inc.	Indiana-Michigan Water Development Co.		680 Dr	98	8	98	S	---	---	Sd.G	P1	---	---	N	---	Water 13 ft below bed, S-21-41 well SJ 58 (KS, 1948).
1P4	---	---	6-27-47	680 Dr	102	12 1/2	102	S; 18ft, 35ml, dia 1 1/2	75	27	Sd.G	P1	C	18	I	T10	Ca., L.
2A1	City of South Bend	---	Before 1911	685 Dr	125	---	125	---	31	87	Sd.G	P1	C	+4	T	---	Bedrock at 124 ft; well SJ 8-4 (KS, 1948); L.
2B1	---	---	Before 1911	685 Dr	148	---	148	---	47	101	Sd.G	P1	C	+4	T	---	Bedrock at 146 ft; well SJ 8-5 (KS, 1948); L.
2C1	---	Austin Drilling Co.	About 1927	705 Dr	146	---	146	---	44	100	G, Sd	P1	C	---	T	---	Flowed; bedrock at 144 ft; well SJ 8-9B (KS, 1948); L.
2C2	---	---	Before 1911	685 Dr	144	2 1/2	144	---	48	98	G, Sd	P1	C	+6	T	---	See log well 2C1; well SJ 8-3 (KS, 1948).
2C3	---	---	Before 1911	705 Dr	152	---	152	---	77	75	G, Sd	P1	C	19	T	---	Bedrock at 152 ft; well SJ 8-5 (KS, 1948); L.
2D1	Drewrys Ltd., U. S. A., Inc.	Layne-Northern Co., Inc.	7-13-33	702 Dr	128	6	128	---	82	66	Sd.G	P1	C	23	T	---	Well SJ 12-T1 (KS, 1948); L.
2D2	---	---	3-30-40	702 Dr	142	12	142	S; 20ft, 105ml	117	25	Sd	P1	C	22	I	---	Dd 17 ft pumping 610 gpm; well SJ 12-2 (KS, 1948); L.

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

Well	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone				Use	Type of pump and horsepower	Remarks
									Depth to top (feet)	Thickness (feet)	Character	Geologic age			
372-203	Drowyn Ltd., U. S. A., Inc.	Layne-Northern Co. Inc.	9-14-43	702 Dr	163	6			Sd, G	P1	C	20	T		Bedrock at 163 ft; see log well 207; well SJ 12-73 (KS, 1948).
204	-----	-----	10-16-46	702 Dr	156	28	Op; S; 20ft., 105ml. dia 18		Sd, G	P1	C	25	Do		Do 20 ft after 7 hr pumping 1,000 GPM; see log well 207.
205	-----	-----	2-8-40	702 Dr	167	10-6			Sd, G	P1	C	26	T		L.
206	-----	-----	4-1-49	702 Dr	159	30	Op; S; 30ft., 80ml. dia 18		Sd, G	P1	C	28	I	T100	Do 20.5 ft after 3 hr pumping 1,500 GPM; see log well 205; Ca.
207	-----	-----	11-10-49	702 Dr	161	10-6			Sd, G	P1	C	26	T		Bedrock at 159 ft; L.
208	-----	-----	4-7-50	702 Dr	154	28	Op; S; 40ft., 105ml. dia 26		Sd, G	P1	C	23	I	T150	Do 20 ft after 4 hr pumping 2,000 GPM; see log well 207.
209	-----	-----	2-17-54	702 Dr	144	34	Op; S; 40ft., 105ml. dia 18		Sd, G	P1	C	28	I	T100	Do 10.5 ft after 2.5 hr pumping 1,500 GPM; L.
210	A. Bjoransk	Srivers Drilling Co.	10-20-49	705 J	45	2	S; 3ft., 60g., dia 1 1/2		Sd, G	P1	U	25	D		Sand and gravel from 0-45 ft.
231	City of South Bend	-----	Before 1921	709 Dr	215	---			Sd	P1	C	25	T		Bedrock at 215 ft; well SJ G-23A (KS, 1948); L.
301	South Bend Shred and Gravel Co.	Indiana-Michigan Water Development Co.	11-28-29	700 Dr	145	10	S; 18ft., dia 15 1/2		G, Sd	P1	C	---	I	T50	Do 5 ft pumping 220 GPM; screen, upper 6 ft 20 sl., lower 9 ft 30 sl.; water level 32 ft below bed, 3-11-49; see log well 202; well SJ 69 (KS, 1948).
302	-----	-----	3-28-40	700 Dr	166	12	S; 20ft., dia 11 1/2		Sd, G	P1	C	26	I	T40	Screen, upper 5 ft 40 sl., lower 15 ft 50 sl.; well SJ 58 (KS, 1948); L.
303	-----	-----	8-5-49	700 Dr	157	12	-----do-----		Sd, G	P1	C	---	I	T40	Do 30 ft after 8 hr pumping 620 GPM; screen, upper 12 ft 50 sl., lower 8 ft 30 sl.; see log well 304; Ca.
304	-----	-----	3-5-54	700 Dr	147	10	S; 16ft., dia 15 1/2		Sd, G	P1	C	35	I	T50	Do 50 ft pumping 750 GPM; screen, upper 10 ft 20 sl., lower 5 ft 30 sl.; L.
305	R. Schmanski	Srivers Drilling Co.	-----	717 J	87	3	S; 5ft., 10ml., dia 2		Sd, G	P1	U	62	D	J1-1/2	Sand and gravel from 0-87 ft.
331	Subedjahan-Wittner Dairy, Inc.	Indiana-Michigan Water Development Co.	4-11-31	712 Dr	129	8	S; 25ft., dia 7 1/2		G, Sd	P1	C	28	I	T10	Screen, upper 10 ft 25 sl., lower 15 ft 15 sl.; see log well 305; well SJ 74 (KS, 1948); Ca.
302	South Bend Drowing Co.	-----	About 1920	712 Dr	135	12	-----		Sd, G	P1	---	---	N	C20	Well SJ 45-2 (KS, 1948).
303	-----	Indiana-Michigan Water Development Co.	5-24-31	712 Dr	133	12	S; 20ft., dia 11 1/2		G, Sd	P1	C	14	N	---	Do 4 ft pumping 200 GPM; screen upper 5 ft 20 sl., lower 15 ft 35 sl.; well SJ 45-1 (KS, 1948); Ca., L.
304	-----	-----	8-15-46	712 Dr	147	12	S; 21ft., 100ml., dia 11 1/2		G, Sd	P1	C	34	N	---	Do 14 ft after 5 hr pumping 950 GPM; see log well 305.
305	-----	-----	2-5-48	712 Dr	151	6	S 11 1/2		G, Sd	P1	C	28	T	---	L.
306	City of South Bend	-----	Before 1921	711 Dr	187	---	-----		G, Sd	P1	C	22	T	---	See log well 305; well SJ 8-22A (KS, 1948).
301	-----	-----	Before 1921	710 Dr	186	---	-----		Sd, G	P1	C	18	T	---	Well SJ 6-20A (KS, 1948); L.
301	Bondix Aviation Corp.	Indiana-Michigan Water Development Co.	10-24-31	710 Dr	200	5	S; 15ft., 30ml		Sd, G	P1	U	25	N	T15	Do 15 ft pumping 100 GPM; well SJ 23-4 (KS, 1948); L.
302	-----	-----	11-15-34	712 Dr	198	12	S; 30ft., dia 11 1/2		G, Sd	P1	U	22	O	---	Screen, upper 10 ft 5 sl., lower 20 ft 35 sl.; observation well St. Joseph 8; water level measured 44.5 ft below bed, 6-14-44; see log well 301; well SJ 23-3 (KS, 1948).

37/2- 3N3	Bendix Aviation Corp.	9-41	713	Dr	208	20	5; 38ft	105	103	Sd, G	Pl	C	40	T	T25	Notes
3N4	-----do-----	9-41	713	Dr	210	---	-----	105	104	Sd, G	Pl	C	45	T	---	Dx 40 ft pumping 1,600 gpm; water level 21 ft below land.
3N5	-----do-----	9-41	712	Dr	205	---	-----	---	---	Sd, G	Pl	---	---	---	---	4-58; bedrock at 208 ft; see log well 3N4; well SJ 23-2 (KS, 1948)
3N6	-----do-----	10-14-53	718	Dr	163	12	5; 30ft, dia 1 1/2	---	---	Sd, G	Pl	---	---	---	---	Dx 30 ft pumping 1,100 gpm; bedrock at 209 ft; L.
3N7	City of South Bend	Before 1921	711	Dr	196	---	-----	88	109	Sd, G	Pl	C	14	T	---	Scraper, 15 ft 35 sl, 5 ft 20 sl, 10 ft 30 sl; Ca.
4B1	F. Alward	8-18-54	722 J	J	47	2	5; 3ft, 80g, dia 1 1/2	37	14	Sd, G	Pl	U	37	D	---	Bedrock at 185 ft; well SJ 6-18A (KS, 1948); L.
4N1	M. C. Frick	8-18-54	729 J	J	47	2	-----	59	8	Sd, G	Pl	U	39	D	---	Ca, L.
4J1	Bendix Aviation Corp.	9-41	712	Dr	182	---	-----	---	---	Sd, G	Pl	---	---	---	---	Sand and gravel from 0-47 ft. Bedrock at 180 ft; L.
4J2	-----do-----	9-41	712	Dr	205	18	-----	180	40	Sd, G	Pl	C	19	T	---	Bedrock at 204 ft; L.
4J3	Capital Elevator Company	4- 3-42	712	Dr	80	---	-----	38	22	Sd, G	Pl	C	---	---	---	For elevator shaft; well SJ 49 (KS, 1948); L.
4N1	F. McKeo	-----	721 J	J	44	2	5; 3ft, 80g, dia 1 1/2	---	---	Sd	Pl	C	14	T	---	Ca, L.
4N1	Bendix Aviation Corp.	-----	711	Dr	90	12	-----	---	---	Sd, G	Pl	---	30	---	---	Well SJ 6-17A (KS, 1948); L.
4R1	-----do-----	9-41	712	Dr	142	---	-----	---	---	Sd, G	Pl	---	2	T	---	Bedrock at 200 ft; well SJ 6-14A (KS, 1948); L.
4R2	-----do-----	Before 1921	711	Dr	170	---	-----	80	90	Sd, G	Pl	C	---	---	---	Ca, L.
4R3	-----do-----	Before 1921	710	Dr	203	---	-----	15	185	Sd, G	Pl	---	0	T	---	Well SJ 6-17A (KS, 1948); L.
5A1	L. W. Clippinger	8-10-46	754 J	J	59	2	5; 3 1/2ft, 60g, dia 1 1/2	---	---	Sd	Pl	---	43	D	---	Yellow sand and gravel from 0-51 ft.
5A2	M. Wilson	-----	748 J	J	44	2	-----	25	26	Sd, G	Pl	U	37	D	---	Yield 6 gpm; L.
5A3	L. H. Miller	-----	744 J	J	51	2	-----	---	---	Sd, G	Pl	---	25	D	---	Yield 10 gpm; see log well 5B1.
5D1	Indiana Savings and Loan Co.	1- 8-57	754 J	J	56	2	-----	45	11	Sd	Pl	C	35	D	---	---
5C1	Church of God	4-26-57	752 J	J	58	2	-----	59	8	Sd	Pl	C	35	P	---	---
5G1	D. Neot	3- 2-56	739 J	J	58	2	-----	---	---	Sd	Pl	---	---	---	---	---
5H1	L. Dillon	8- 1-48	740 J	J	55	2	5; 3ft, 80g, dia 1 1/2	---	---	Sd, G	Pl	---	28	D	---	---
5H2	L. D. Irvin	8- 1-48	740 J	J	50	2	-----	75	18	Sd, G	Pl	C	32	D	---	---
5H3	A. J. Jones	3- 6-57	742 J	J	50	2	-----	25	18	Sd, G	Pl	C	14	D	---	---
5H4	R. Hall	3- 6-57	743 J	J	63	2	5; 3 1/2ft, 60g, dia 1 1/2	50	13	Sd	Pl	C	35	D	---	---
5J1	E. Sellers	1-16-48	736 J	J	45	2	5; 3ft, 60g, dia 1 1/2	---	---	Sd	Pl	---	16	D	---	---
5J2	L. Nowak	4- 3-58	730 J	J	40	2	5; 3 1/2ft, 60g, dia 1 1/2	25	15	Sd, G	Pl	U	25	D	---	---
5J3	J. A. Armour	7-18-54	735 J	J	47	2	-----	27	20	Sd, G	Pl	U	27	D	---	---
5K1	A. E. Kosinski	7-18-54	735 J	J	46	2	5; 3 1/2ft, 10sl, dia 1 1/2	24	22	Sd, G	Pl	U	24	D	---	---
5L1	Gish Lumber Co.	-----	733 J	J	40	2	5; 3 1/2ft, 60g, dia 1 1/2	12	34	Sd, G	Pl	U	12	P	---	---
5P1	J. W. Buda	7-30-56	731 J	J	45	2	5; 3ft, 60g, dia 1 1/2	10	29	Sd, G	Pl	U	16	D	---	---
5Q1	S. W. Paskiet	12- 3-53	732 J	J	36	2	-----	---	---	Sd	Pl	---	17	D	---	---
5R1	Indiana State Highway Department	7-30-56	731 B	B	50	---	-----	---	---	Sd	Pl	---	---	---	---	Very fine brown sand from 0-50 ft.
5R2	-----do-----	7-30-56	751 B	B	50	---	-----	---	---	Sd	Pl	---	---	---	---	Do.
5R3	-----do-----	7-30-56	752 B	B	50	---	-----	---	---	Sd, G	Pl	---	---	---	---	Brown sand from 0-50 ft.
6D1	T. Haugrud	-----	754 J	J	44	2	5; 3ft, 60g, dia 1 1/2	34	10	Sd, G	Pl	U	34	D	---	---
6F1	D. Baughman	-----	747 J	J	42	2	5; 3 1/2ft, dia 1 1/2	25	17	Sd, G	Pl	U	25	D	---	---
6G1	J. Mueller	2-27-57	740 J	J	56	2	5; 3ft, 60g, dia 1 1/2	30	28	C	Pl	U	30	D	---	---
6G2	L. Lough	2-27-57	748 J	J	45	2	5; 3 1/2ft, 60g, dia 1 1/2	30	15	C	Pl	U	30	D	---	---
6G3	Indiana State Highway Department	12- 6-56	745 B	B	50	---	-----	---	---	Sd, G	Pl	U	---	---	---	Gravel overlain by 20 ft sand.
6G4	-----do-----	12- 6-56	744 B	B	50	---	-----	---	---	Sd, G	Pl	U	---	---	---	See log well 6G3.
6G5	-----do-----	12- 6-56	745 B	B	50	---	-----	---	---	Sd, G	Pl	U	---	---	---	Do.

Table 2.--Records of wells and test holes in St. Joseph 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				
37/2-668	Indiana State Highway Department		12-8-56	748 B	50					Sd, G	Pl	V	---	T		Sand and pea-sized gravel overlain by 35 ft brown sand.	
667	do		12-8-56	740 B	50					Sd, G	Pl	V	---	T		Sand and pea-sized gravel overlain by 38 ft brown sand.	
668	do		12-8-56	744 B	50					Sd, G	Pl	V	---	T		Sand and pea-sized gravel overlain by 44 ft brown sand.	
6Q1	do		7-30-56	736 B	50					Sd, G	Pl	U	---	T		Do.	
6Q2	do		7-30-56	735 B	50					Sd, G	Pl	U	---	T		Do.	
7D1	G. Vann Tornhout	R. Roddick	4-24-57	745 J	44	2	2	S; 3ft, 60g, dia 1 1/4		Sd, G	Pl	U	20	D	J	Yield 6 gpm; sand and gravel overlain by 20 ft sand.	
7D2	Indiana State Highway Department		7-30-56	733 B	50					Sd, G	Pl	U	---	T		Sand and gravel overlain by 20 ft brown sand.	
7E3	do		7-30-56	735 B	50					Sd, G	Pl	U	---	T		Sand and gravel overlain by 22 ft brown sand.	
7B4	do		7-30-56	735 B	50					Sd, G	Pl	U	---	T		Sand and gravel overlain by 21 ft brown sand.	
7B5	do		7-30-56	735 B	50					Sd, G	Pl	U	---	T		Sand and gravel overlain by 18 ft brown sand.	
7G1	do		7-30-56	740 B	50					Sd	Pl	U	---	T		Brown sand from 0-50 ft.	
7G2	do		7-30-56	738 B	50					Sd	Pl	U	---	T		Brown sand overlain by 11 ft sand and pea-sized gravel.	
7G3	do		7-30-56	736 B	50					Sd	Pl	U	---	T		Brown sand overlain by 13 ft brown sand and pea-sized gravel.	
7H1	E. Mosatron	Silver Drilling Co.	5-11-51	742 J	67	2	2	S; 3ft, 60g, dia 1 1/4		Sd, G	Pl	U	29	D	J3/4	Ca, L.	
7J1	J. R. Moyer	do	10-4-51	745 J	36	2	2	S; 3ft, 60g, dia 1 1/4		Sd	Pl	U	26	D	J	Sand and gravel from 0-52 ft; blue clay at 52 ft.	
7J2	D. Do Vreese	do	1-12-54	745 J	52	2	2	do		Sd, G	Pl	U	38	D	J	Brown sand and pea-sized gravel from 0-50 ft.	
7K1	Indiana State Highway Department		7-30-56	738 D	50					Sd, G	Pl	U	---	T		Do.	
7N2	do		7-30-56	740 B	50					Sd, G	Pl	U	---	T		Do 9 ft pumping 440 GPM; water level 33 ft below top, 3-0-50;	
7M1	St. Joseph Cemetery Association	R. Kearsney		752 Dr	73	10	10	S; 10ft, 30ml, dia 8 1/2		Sd, G	Pl	U	---	Ir		Ca, L.	
7M2	do		10-23-52	740 Dr	84	12	12	S; 18ft, 20ml, dia 1 1/4		Sd, G	Pl	U	18	Ir		Ca, L.	
7P1	G. Kazmierzak	Indiana-Michigan Water Development Co.	9-8-49	743 J	41	2	2	S; 3ft, 60g, dia 1 1/4		Sd, G	Pl	U	27	---		See log well 7Q1.	
7Q1	Indiana State Highway Department	Silver Drilling Co.	8-27-56	742 B	50					Sd	Pl	U	---	T		Yellow sand overlain by 20 ft yellow clay.	
7Q2	do		8-27-56	740 B	50					Sd	Pl	U	15	D		L.	
7R1	J. Kujawa	Silver Drilling Co.	2-14-58	733 J	40	2	2	S; 3ft, 106ml, dia 1 1/4		Sd, G	Pl	U	25	D	J1/2	See log well 7Q1.	
8A1	Indiana-Michigan Electric Co.	Layne-Northorn Co., Inc.	5-2-58	722 Dr	182					Sd, G	Pl	U	14	T		L.	
8D1	C. Coniat	Silver Drilling Co.	7-10-51	724 Dr	22	1 1/2	1 1/2	S; 3ft, 60g, dia 1 1/4		Sd, G	Pl	U	7	D		Sand and gravel from 0-40 ft.	
8D2	R. M. Walt	do	10-15-50	724 J	40	2	2	S; 3ft, 60g, dia 1 1/4		Sd, G	Pl	U	10	D		L.	
8E1	E. Dean	do	8-23-54	737 J	80	2	2	S; 3ft, 106ml, dia 1 1/4		Sd, G	Pl	U	26	D	J1/2		

Well No.	Company	Date	Drill Type	Depth (ft)	Notes	Flow (gpm)	Pressure (psi)	Water Type	Remarks
871	J. M. Wleczonek	7-28-50	740 J	40	8; 3ft. 80g, dia 1 1/4	15	7	Sd,G	
872	F. Hob	9-4-57	740 J	73	S; 3ft. 80g, dia 1 1/4	66	25	Sd,G	
873	Holy Family Parish School	12-5-53	732 Dr	71	S; 3ft. 30g1	48			
881	South Bond Auto		717 J	58	S; 6ft. 80g, dia 2	48			
882	Theater		728 J	44	S; 3ft. 60g, dia 1 1/4	35			
883	H. Miller	7-7-48	732 J	50	do	6			
884	T. Beechell	5-20-53	725 J	45	do	4			
885	E. Plechoccki	10-26-53	730 J	53	do	4			
886	J. Poty	4-18-56	730 J	46	S; 3ft. 80g, dia 1 1/4	30			
887	L. Dembrowski					16			
891	City of South Bend	Before 1921	709 Dr	186		0			
892		Before 1921	714 Dr	193		5			
893		Before 1921	714 Dr	200		80			
894		Before 1921	714 Dr	200		90			
1001	O'Brien Corp.	11-18-44	717 Dr	130	S; 20ft, dia 9 1/2	92			
1001	Bondix Aviation Corp.	9-41	713 Dr	201	8				
1002		9-41	712 Dr	201	5				
1003	City of South Bend	Before 1921	713 Dr	211		50			
1004		Before 1921	713 Dr	210		45			
1005	Singer Manufacturing Co.	1921	716 Dr	118					
1006		Before 1906	716 Du	40					
1007	Layne-Northern Co., Inc.	7-19-34	714 Dr	108					
1008		8-6-34	714 Dr	118	GP; S; 25ft., 105g1, dia 18	90			
1009		1-16-53	717 Dr	119	S; 20ft., dia 9 1/2	01			
1010	City of South Bend	Before 1921	715 Dr	194		5			
1011		Before 1921	715 Dr	182					
1012		Before 1921	715 Dr	198		5			
1013	American Telephone and Telegraph Co.	Before 1921	715 Dr	184		8			
1014		6-9-48	720 Dr	75	S; 10ft	48			
1015	Clacys Candy Co.	3-21-29	720 Dr	84	S; 20ft., 30g1, dia 9 1/2	35			
1016	Oliver Corp.	Before 1906	718 Du	28					
1017		10-27-44	718 Dr	125		25			
1018		3-24-45	718 Dr	90	S; 30ft., 130g1, dia 18				
1019									
1020									
1021									
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Table 2.--Records of wells and test holes in St. Joseph 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 zone				
37/2-1184	Oliver Corp.		1944	718	Dn	44	2									Observation well. St. Joseph 7; water level measured 28.28 ft below land 9-28-46.
1181	Studebaker Corp.	Smith-Monroe Co.		724	Dr	72	12	S; 15ft, dia 11½								Dd 16 ft pumping 400 gpm; bed-rock at 84 ft; well SJ 24-5 (KS, 1948); L.
1182		R. Korsey	1910	724	Dr	58	12	S; 20ft, 25ml, dia 10								Dd 21 ft pumping 450 gpm; sand and gravel overlain by 35 ft sand; well SJ 24-1 (KS, 1948); C.
1183		Indiana-Michigan Water Development Co.	8-38	725	Dr	81	12	S; 14ft								Dd 36 ft pumping 250 gpm; originally drilled to 44 ft; deepened to 81 ft. 10-29-48; L.
1184				725	Dr	97										See log well 11810; well SJ 24-76 (KS, 1948); L.
1185				724	Dr	100										Well SJ 24-72 (KS, 1948); L.
1186				725	Dr	98										See log well 1185; well SJ 24-73 (KS, 1948); L.
1187				725	Dr	100										See log well 1187; well SJ 24-74 (KS, 1948); L.
1188				724	Dr	90										See log well 1188; well SJ 24-75 (KS, 1948); L.
1189				725	Dr	103										See log well 1189; well SJ 24-79 (KS, 1948); L.
1190				725	Dr	103										Well SJ 24-78 (KS, 1948); L.
1191				724	Dr	90										See log well 1191; well SJ 24-726 (KS, 1948); L.
11912				724	Dr	63										See log well 1191; well SJ 24-727 (KS, 1948); L.
11913		A. L. Cox Co., Inc.	3- 3-41	725	Dr	94	12	S; 16ft, dia 11½								Yield 250 gpm; screen, upper 2 ft 10 in, middle 5 ft 20 in lower 8 ft 30 in; well SJ 24-12 (KS, 1948); L.
11914				725	Dr	63										See log well 1191; well SJ 24-729 (KS, 1948); L.
11915				724	Dr	63										See log well 1191; well SJ 24-728 (KS, 1948); L.
1201	Granada Theatre	A. L. Cox Co., Inc.	3-27	674	Dr	124	12	S; 18ft, dia 11½								Yield 450 gpm; water level 24 ft 5-30-42; well SJ 37 (KS, 1948); L.
1202	Arrow Towel Co.	R. Korsey	1030	686	Dr	118	8	S; 20ft								Well SJ 46-1 (KS, 1948); Ca. L.
1203	Taube Printing Co.	Indiana-Michigan Water Development Co.	5-31	685	Dr	110	12	S; 13ft, dia 11½								Screen upper 7 ft 20 in, lower 8 ft 30 in; see log well 1209; well SJ 40 (KS, 1948); L.
1204	Holloway House Cafeteria		3-21-39	705	Dr	124	8	S; 12ft, 35ml, dia 7½								Dd 8 ft pumping 150 gpm; see log well 1205; well SJ 81 (KS, 1948); L.
1205			10-15-48	705	Dr	119	B	S; 12ft, 35ml, dia 7½								Dd 13 ft pumping 90 gpm; Ca. L.
1206	City of South Bend	Layne-Northern Co., Inc.	12-20-41	684	Dr	110										Bedrock at 109 ft; well SJ 2-71 (KS, 1948); L.

37/2-12C7	City of South Bend		4-25-42	684 Dr	106	50-38	Op; S; 20ft, 180sl, dia 38	84	24	G	Pl	C	4	N	-----	-----
12C8	-----	Layne-Northern Co., Inc.	8-1-56	675 Dr	110	6	-----	56	61	Sd,G	Pl	C	2	T	-----	Dd 42.75 ft after 8 hr pumping 2,100 gpm; see log well 12C9; well SJ 2-35 (KS, 1948).
12C9	-----	-----	11-27-56	675 Dr	118	38	Op; S; 25ft, 80sl, dia 28	86	30	Sd,G	Pl	C	7	P	-----	See log well 12C9.
12C10	-----	-----	1906	675 Dr	99	4	-----	62	37	G,S4	Pl	C	---	P	-----	Dd 34.8 ft pumping 2,100 gpm; L.
12D1	-----	Indiana-Michigan Water Development Co.	8-28-38	708 Dr	136	12	S; 20ft, 40sl, dia 11 1/2	111	24	G,S4	Pl	C	32	N	-----	Well SJ 2-34 (KS, 1948); L. log well 12D9; well SJ 70-2 (KS, 1948).
12D2	-----	A. L. Cox Co., Inc.	5-20-40	708 Dr	135	12	S; 20ft	---	---	G	Pl	---	35	P,Ac	-----	Well SJ 15-1 (KS, 1948).
12D3	-----	Mr. Inapp	1938	708 Dr	160	---	-----	---	---	Sd,G	Pl	---	---	---	-----	Void 125 gpm; well SJ 33 (KS, 1948).
12D4	-----	R. Korsev	1923	708 Dr	97	12	S; 20ft, 35sl, dia 10	95	47	Sd,G	Pl	C	28	---	-----	Dd 75 ft pumping 500 gpm; observation well St. Joseph 6, water level measured 37.29 ft below lsd, 6-8-44; well SJ 22-1 (KS, 1948); L. Void 400 gpm; well SJ 22-2 (KS, 1948).
12D5	-----	R. Korsev	1923	708 Dr	139	12	-----	---	---	Sd,G	Pl	---	30	N	-----	Water level 26 ft below lsd, well SJ 35 (KS, 1948).
12D6	-----	J. P. Korsev	1909	708 Dr	142	6	S	120	22	G,Sd	Pl	C	---	N	-----	8-39; see log well 12D4; below lsd, 6-8-44; well SJ 22-1 (KS, 1948); L.
12D7	-----	H. E. Cowell	8-39	708 Dr	149	12	S; 20ft	---	---	Sd,G	Pl	---	40	Ac	-----	Screens, upper 4 ft 90 g, middle well SJ 22-3 (KS, 1948).
12D8	-----	Indiana-Michigan Water Development Co.	5-21-41	708 Dr	135	12	S; 20ft, 40sl, dia 11 1/2	110	25	G	Pl	C	41	Ac	-----	Dd 11 ft after 2 hr pumping 800 gpm; see log well 12D9; well SJ 42 (KS, 1948).
12D9	-----	-----	-----	708 Dr	138	12	S; 20ft, 30sl, dia 10	111	27	G,Sd	Pl	C	---	P,Ac	-----	Water level 32 ft below lsd, 8-27-35; well SJ 44 (KS, 1948); L.
12E1	-----	Layne-Northern Co., Inc.	8-13-54	709 Dr	73	10	S; 9ft, 30sl, dia	22	53	Sd,G	Pl	U	22	---	-----	For heat pump system; Ca, L.
12E2	-----	-----	8-20-54	709 Dr	55	8	S; 20ft, 30sl, dia 7 1/2	28	27	G,Sd	Pl	U	28	---	-----	Return well for heat pump system; see log well 12E1.
12E3	-----	Indiana-Michigan Water Development Co.	9-23-39	709 Dr	99	8	S; 15ft, 20g, dia 7 1/2	30	69	G,Sd	Pl	U	30	P	-----	Dd 22 ft pumping 150 gpm; see log well 12E4; well SJ 79 (KS, 1948).
12E4	-----	-----	12-30-53	712 Dr	64	6	S; 13ft, 12sl, dia	33	31	Sd,G	Pl	U	33	I	-----	Dd 17 ft after 7 hr pumping 120 gpm; bedrock at 95 ft; L.
12E5	-----	-----	9-25-37	708 Dr	140	10	S; 9ft, 20sl, dia	83	37	Sd,G	Pl	C	38	N	-----	Dd 14 ft pumping 150 gpm; well SJ 32 (KS, 1948); L.
12E6	-----	-----	8-19-37	710 Dr	129	8	S; 10ft, 25sl, dia 7 1/2	77	52	Sd,G	Pl	C	38	Ac	-----	Dd 30 ft pumping 200 gpm; L.
12E7	-----	H. Cowles	6-29-37	708 Dr	160	---	-----	---	---	---	---	---	---	T	-----	Shale overlain by 110 ft clay; no water reported; well SJ 48 (KS, 1948).
12F1	-----	Indiana-Michigan Water Development Co.	2-26-38	706 Dr	128	12	S; 14ft	96	32	Sd,G	Pl	C	25	I	-----	Dd 5 ft pumping 180 gpm; water level 38 ft below lsd, 11-16-44; screen, upper 6 ft 15 sl, lower 6 ft 40 sl; well SJ 31 (KS, 1948); Ca, L.
12H1	-----	Jefferson Medical Arts Building	5-7-59	704 Dr	110	6	S; 10ft	75	41	Sd,G	Pl	C	28	P	-----	Dd 12 ft after 4 hr pumping 200 gpm; Ca, L.
12H2	-----	Willory Ice and Supply Co.	4-27-34	703 Dr	92	6	S; 15ft, 20sl, dia 5 1/2	72	20	Sd	Pl	C	19	N	-----	Dd 10 ft pumping 300 gpm; water level 20 ft below lsd, 11-30-38; see log well 12H1; well SJ 66-1 (KS, 1948).
12H3	-----	-----	2-6-45	703 Dr	94	6	S; 15ft, 15sl, dia 5 1/2	77	17	Sd,G	Pl	C	25	I	-----	See log well 12H1; well SJ 66-; (KS, 1948); Ca.
12K1	-----	Haughton Elevator Co.	8-18-37	706 Dr	27	10	-----	---	---	---	---	---	---	---	-----	For elevator shaft; clay overlain by 24 ft sand and gravel; well SJ 76 (KS, 1948).
12L1	-----	Grand Trunk Railroad	8-17-20	711 Dr	121	6	S; 12ft, 20sl, dia 5 1/2	105	16	Sd	Pl	C	30	---	-----	Void 50 gpm; well SJ 84 (KS, 1948); L.
12N1	-----	Layne-Northern Co., Inc.	1032	720 Dr	80	8	S	---	---	Sd,G	Pl	---	36	N	-----	Well SJ 41-1 (KS, 1948).

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

Well	Owner	Driller	Date completed	Attitude (feet)	Type of well	Depth of well below land surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone				Type of pump and bore opener	Remarks
									Depth to top (feet)	Thickness (feet)	Character	Geologic age		
37/2-1282	Furnas Division, Borden Co.	Indiana-Michigan Water Development Co.	2-24-38	728	Dr	73	8	S; 15ft, 20in. dia	---	SA	PI	U	T10	Dd 14 ft after 5 hr pumping 180 gpm; well SJ 41-2 (KS, 1948); L.
1283	-----do-----	-----do-----	6-15-45	728	Dr	74	10	S; 8ft, dia 9½	39	SA, G	PI	U	Da	Dd 12 ft pumping 90 gpm; screen, upper 4 ft 40 in, lower 4 ft 70 in; see log well 1282.
1284	City of South Bend	Austin Drilling Co.	3-27	722	Dr	100	---	-----	46	SA, G	PI	U	T	Bedrock at 98 ft; well SJ 8-24B (KS, 1948); L.
1285	Stuebaker Corp.	Layne-Northern Co., Inc.	8-31-53	725	Dr	95	8	-----	83	SA, G	PI	C	---	Bedrock at 85 ft; L.
1281	White Swan Laundry	-----do-----	-----	728	Dr	81	12	S; 17ft, 20in. dia	---	SA, G	PI	C	---	Dd 35 ft pumping 140 gpm; observation well St. Joseph 10; water level measured 41.28 ft below land, 2-15-45; well SJ 34-1 (KS, 1948).
1282	-----do-----	Indiana-Michigan Water Development Co.	12-11-41	726	Dr	97	6	-----	64	G, Sd	PI	C	---	Well SJ 34-T1 (KS, 1948); L.
1283	-----do-----	-----do-----	12-31-41	726	Dr	95	12	S; 15ft, 35in. dia	65	G, Sd	PI	C	---	Dd 9 ft pumping 180 gpm; see log well 1282; well SJ 34-2 (KS, 1948).
1284	-----do-----	-----do-----	4-24-47	726	Dr	97	12	S; 15ft, 15in. dia	---	G, Sd	PI	C	T15	Bedrock at 285 ft; well SJ 7-12 (KS, 1948); L.
1281	City of South Bend	Austin Drilling Co.	8-15-26	692	Dr	333	---	-----	40	Sd	PI	C	---	See log well 13A5.
1282	Fattore Co.	Layne-Northern Co., Inc.	7-15-50	690	Dr	63	12	-----	20	SA, G	PI	C	---	Bedrock at 150 ft; well SJ 8-8 (KS, 1948); L.
1283	City of South Bend	R. Kersey	1-11	685	Dr	150	---	-----	---	SA, G	PI	---	---	Well SJ 80-1 (KS, 1948).
13A1	South Bend Toy Manufacturing Co.	-----do-----	-----	723	Dr	84	8	S; 18ft, dia 6	---	SA, G	PI	---	---	---
13A2	-----do-----	Indiana-Michigan Water Development Co.	5-31-44	723	Dr	88	10	S; 15ft, 15in. dia	39	Sd	PI	U	T7-1/2	Dd 10 ft pumping 100 gpm; see log well 13A5; well SJ 80-2 (KS, 1948).
13A3	South Bend Ball Co.	Layne-Northern Co., Inc.	1- 5-36	719	Dr	75	8	S; 15ft, dia 7	36	SA, G	PI	U	T7	Dd 9 ft pumping 200 gpm; well SJ 17-1 (KS, 1948); L.
13A4	Northern Indiana Public Service Co.	-----do-----	7-13-47	712	Dr	73	6	-----	32	SA, G	PI	U	---	See log well 13A5.
13A5	-----do-----	-----do-----	9-12-47	712	Dr	75	34	Op; S; 20ft, 105in. dia 18	34	SA, G	PI	U	T30	Dd 14 ft after 6.5 hr pumping 1,070 gpm; L.
13A6	City of South Bend	Austin Drilling Co.	6-16-27	704	Dr	91	---	-----	20	SA, G	PI	U	---	Bedrock at 87 ft; well SJ 7-31 (KS, 1948); L.
13D1	-----do-----	-----do-----	1929	726	Dr	102	---	-----	---	SA, G	PI	---	---	Bedrock at 87 ft; well SJ 8-1B (KS, 1948); L.
13E1	Borden Co.	Layne-Northern Co., Inc.	1-23-35	732	Dr	58	8	-----	---	SA, G	PI	U	---	Violated 60 gpm; observation well St. Joseph 21; water level measured 36.85 ft below land, 2-1-46; see log well 13D1; well SJ 10-1 (KS, 1948).
13E2	-----do-----	Indiana-Michigan Water Development Co.	7- 1-37	732	Dr	45	12	S; 7ft, 40in. dia	---	SA, G	PI	U	---	Dd 20 ft pumping 90 gpm; observation well St. Joseph 22; water level measured 36.41 ft below land, 1-26-46; well SJ 10-2 (KS, 1948); L.

Table 2.--Records of wells and test holes in St. Joseph 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 era				
37/2-1483	City of South Bend	-----	-----	718	Dr	100	-----	-----	-----	-----	-----	19	T	-----	Bedrock at 100 ft.; well SJ 8-8B (KS, 1948); L. Well SJ 36 (KS, 1948).	
1481	N. P. Bowers Co.	Indiana-Michigan Water Development Co.	1937	719	Dr	77	6	-----	-----	-----	-----	25	I	J1		
1481	Sanders Lumber Co.	-----	1924	719	Dr	100	6	-----	-----	-----	-----	24	I	-----	Well SJ 38 (KS, 1948). Bedrock at 146 ft.; observation well St. Joseph 20; water level measured 18.32 ft below land, 3-8-45; well SJ 28-1 (KS, 1948).	
1481	Oliver Corp.	-----	1910	720	Dr	72	12	-----	-----	-----	-----	18	O	-----	Well SJ 38 (KS, 1948). Bedrock at 146 ft.; observation well St. Joseph 20; water level measured 18.32 ft below land, 3-8-45; well SJ 28-1 (KS, 1948).	
1481	Stuebner Corp.	-----	5-28	729	Dr	58	38	S; 20ft. dia J2	-----	-----	-----	31	I	T40	Well SJ 38 (KS, 1948). Bedrock at 146 ft.; observation well St. Joseph 20; water level measured 18.32 ft below land, 3-8-45; well SJ 28-1 (KS, 1948).	
1482	-----	-----	6-28	729	Dr	58	32	S; 20ft	-----	-----	-----	34	I	T75	Well SJ 24-9 (KS, 1948); Ca. Dd 16 ft pumping 770 gpm.	
1483	-----	R. Kersey	-----	728	Dr	82	-----	-----	-----	-----	-----	---	T	-----	Well SJ 24-102 (KS, 1948); L.	
1483	-----	-----	-----	730	Dr	120	-----	-----	-----	-----	-----	---	T	-----	Well SJ 24-719 (KS, 1948); L.	
1483	-----	-----	-----	730	Dr	78	-----	-----	-----	-----	-----	---	T	-----	See log well 1489; well SJ 24-120 (KS, 1948).	
1486	-----	-----	-----	728	Dr	65	-----	-----	-----	-----	-----	---	T	-----	See log well 1484; well SJ 24-121 (KS, 1948).	
1487	-----	-----	-----	730	Dr	60	-----	-----	-----	-----	-----	---	T	-----	See log well 1484; well SJ 24-122 (KS, 1948).	
1481	South Bend Tool and Die Co.	Indiana-Michigan Water Development Co.	5-2-44	730	Dr	80	8	S; 10ft. 40s1, dia 7 1/2	-----	-----	-----	26	P	T3	Yield 100 gpm; well SJ 25-2 (KS, 1948); L.	
1481	City of South Bend	-----	Before 1921	723	Dr	132	-----	-----	-----	-----	-----	56	T	-----	Well SJ 8-1A (KS, 1948); L.	
1481	-----	-----	Before 1911	765	Dr	182	-----	-----	-----	-----	-----	53	T	-----	Bedrock at 147 ft.; well SJ 8-10 (KS, 1948); L.	
1481	Reliable Dairy, Inc.	A. L. Cox Co., Inc.	1-23-35	767	Dr	93	8	S; 20ft	-----	-----	-----	---	N	-----	Yield 150 gpm; well SJ 49 (KS, 1948).	
1482	-----	-----	12-31-51	767	Dr	94	8	S; 19ft, 80g. dia 7 1/2	-----	-----	-----	70	I	-----	Dd 7 ft pumping 125 gpm; see log well 1481.	
1483	City of South Bend	Indiana-Michigan Water Development Co.	9-17-26	768	Dr	155	-----	-----	-----	-----	-----	70	T	-----	Well SJ 7-16 (KS, 1948); L.	
1581	-----	-----	Before 1921	710	Dr	170	-----	-----	-----	-----	-----	90	T	-----	See log well 1502; well SJ 6-24A (KS, 1948).	
1582	-----	-----	1921	717	Dr	159	12	S; 21ft. dia 11 1/2 dia 26	-----	-----	-----	50	T	-----	Dd 22 ft after 3 hr pumping 300 gpm; well SJ 6-25A (KS, 1948); L.	
1582	-----	-----	9-6-46	717	Dr	193	6	-----	-----	-----	-----	18	T	-----	Bedrock at 191 ft.; well SJ 4-T3 (KS, 1948); L.	
1582	-----	-----	4-7-47	717	Dr	171	38-20	GP; S; 40ft., 156s1, dia 28	-----	-----	-----	19	P	T50	Dd 22.3 ft after 23 hr pumping 2,300 gpm; bedrock at 191 ft; see log well 1581; well SJ 4-28 (KS, 1948).	
1583	-----	-----	2-15-40	717	Dr	186	38	GP; S; 40ft., 105s1, dia 26	-----	-----	-----	18	P	T150	Dd 29.5 ft after 10 hr pumping 2,230 gpm; L.	
1584	-----	-----	11-15-53	716	Dr	171	-----	-----	-----	-----	-----	18	T	-----	Bedrock at 171 ft.; L.	
1585	-----	-----	12-10-53	718	Dr	108	38	GP; S; 40ft., 105s1, dia 26	-----	-----	-----	19	P	T150	Dd 25.4 ft after 8 hr pumping 2,280 gpm; see log well 1484; Ca.	
1586	-----	-----	10-10-44	716	Dr	152	J-1 1/2	S; 6ft	-----	-----	-----	118	O	-----	Bedrock at 165 ft.; observation well St. Joseph 21; water level measured 19.32 ft below land, 2-18-45; well SJ 4-T1 (KS, 1948); L.	

Well No.	Company	Date	Dr.	172	8	15ft, dia 5 1/2	16	5d, G	Pl	U	P, I	T	Notes
1572-1577	City of South Bend	4-11-58	717 Dr	172	8	15ft, dia 5 1/2	16	5d, G	Pl	U	16 P, I	T	See log well 15C3.
1578	Indiana-Michigan Development Co.	9-21-50	717 Dr	71	6	5; 15ft, dia 5 1/2	57	5d, G	Pl	U	16 P, I	T7	Dr 10 ft. pumping 40 gpm; screen, upper 5 ft 30 in, lower 10 ft 20 in; C 178 ft; well bedrock at 178 ft; well SJ 5-5 (KS, 1948); L.
1561	City of South Bend	Before 1921	715 Dr	178	---	---	86	5d, G	Pl	C	12 T	---	Dr 18 ft. screen, hr. pumping 320 gpm; well SJ 28-2 (KS, 1948); C.
1562	City of South Bend	10-22-41	719 Dr	180	12	9; 18ft, 20ft, dia 10	---	5d, G	Pl	---	7	---	Well SJ 6-4A (KS, 1948); L.
1581	Oliver Corp.	---	717 Dr	88	---	---	---	5d	Pl	---	17 I	---	Dr 18 ft. screen, hr. pumping 320 gpm; well SJ 28-2 (KS, 1948); C.
1531	City of South Bend	---	722 Dr	135	---	---	---	5d, G	Pl	U	---	---	Well SJ 6-2A (KS, 1948); L.
1532	City of South Bend	---	720 Dr	90	---	---	9	5d, G	Pl	U	9 T	---	See log well 15A1; well SJ 6-3A (KS, 1948).
1583	City of South Bend	Before 1921	718 Dr	173	---	---	63	5d, G	Pl	C	13 T	---	Well SJ 6-4A (KS, 1948); L.
1561	New Jersey, Indiana, and Illinois Railroad	1931	715 Dr	80	8	---	---	5d, G	Pl	C	---	---	Observation well St. Joseph; water level measured 14.32 ft below 1st, 2-20-45; well SJ 85 (KS, 1948); S, G.
1681	Torrington Co., Inc.	10-30-36	712 Dr	102	8	5; 14ft, dia 7 1/2	85	5d, G	Pl	C	18 N	---	Dr 40 ft. pumping 150 gpm; well SJ 78 (KS, 1948); L.
1682	Indiana-Michigan Development Co.	---	---	---	---	---	---	---	---	---	---	---	Dr 40 ft. pumping 150 gpm; well SJ 78 (KS, 1948); L.
1682	Indiana-Michigan Development Co.	5-23-45	712 Dr	102	8	5; 15ft, 50ft, dia 7 1/2	76	5d	Pl	C	10 I	T10	Dr 29 ft. pumping 660 gpm; Ca, L.
1683	Indiana-Michigan Development Co.	4-17-51	712 Dr	100	12	5; 18ft, 30ft	75	5d, G	Pl	C	14 I	T20	See log well 16G1; well SJ 11-17 (KS, 1948).
1684	Ronch-Appleton Manufacturing Co.	3-2-39	712 Dr	108	8	5; 15ft, dia 7 1/2	90	5d, G	Pl	C	9 I	T10	Dr 13 ft. pumping 150 gpm; well SJ 78 (KS, 1948); L.
1685	Grand Trunk Railroad	---	---	---	---	---	---	---	---	---	---	---	Dr 29 ft. pumping 660 gpm; Ca, L.
1685	Grand Trunk Railroad	5-7-48	712 Dr	115	10	9; 18ft, 18ft, dia 8 1/2	77	5d	Pl	C	12 I	T20	See log well 16N2.
1661	City of South Bend	11-6-37	713 Dr	170	---	---	81	5d, G	Pl	C	8 T	---	Dr 25 ft. after 4 hr. pumping 1,800 gpm; L.
1662	City of South Bend	1-11-46	713 Dr	174	34	Op; 8; 20ft, 105ft, dia 18	108	5d, G	Pl	C	11 N	---	Observation well St. Joseph; water level measured 8.56 below 1st, 2-18-45; well SJ 4-12 (KS, 1948); L.
1663	New York Central System	8-31	710 Dr	152	12	5	---	5d, G	Pl	---	---	---	See log well 16N2.
1681	City of South Bend	1-27-49	710 Dr	117	6	---	76	5d, G	Pl	C	3 T	---	Dr 25 ft. after 4 hr. pumping 1,800 gpm; L.
1682	City of South Bend	3-10-49	711 Dr	142	12	5; 20ft, 80ft, dia 10	76	5d, G	Pl	C	1 Ir	---	Dr 25 ft. after 4 hr. pumping 1,800 gpm; L.
1781	City of South Bend	11-4-44	710 Dr	152	3	5; 5ft, dia 1 1/2	128	5d, G	Pl	C	9 O	---	Observation well St. Joseph; water level measured 8.56 below 1st, 2-18-45; well SJ 4-12 (KS, 1948); L.
1781	Silver Drilling Co.	7-24-52	718 J	44	2	5; 3 1/2ft, 10ft, dia 1 1/2	38	5d	Pl	C	7 D	---	See log well 17K1.
1781	H. Kaylor	1-18-54	737 J	52	2	5; 3ft, 60ft, dia 1 1/2	30	5d, G	Pl	U	30 D	---	See log well 17K1.
1781	Indiana State Highway Department	12-11-56	717 D	50	---	---	---	5d, G	Pl	U	---	---	Gray sand overlain by 7 ft muck.
1782	Indiana State Highway Department	12-11-56	715 B	50	---	---	---	G-Sd	Pl	U	---	---	Gray sand overlain by 7 ft muck and fill.
1782	Indiana State Highway Department	12-11-56	716 D	50	---	---	---	G-Sd	Pl	U	---	---	Gray sand overlain by 6 ft muck.
1781	Indiana State Highway Department	2-15-57	710 B	50	---	---	---	G-Sd	Pl	U	---	---	See log well 17K1.
1782	Indiana State Highway Department	2-15-57	712 B	50	---	---	---	G-Sd	Pl	U	---	---	See log well 17K1.
1783	Indiana State Highway Department	2-15-57	714 B	50	---	---	---	G-Sd	Pl	U	---	---	See log well 17K1.
1784	Indiana State Highway Department	2-15-57	709 B	50	---	---	---	G-Sd	Pl	U	---	---	See log well 17K1.
1881	Indiana State Highway Department	8-27-56	742 B	50	---	---	---	G-Sd	Pl	U	---	---	See log well 1882.
1882	Indiana State Highway Department	8-27-56	740 B	50	---	---	---	G-Sd	Pl	U	---	---	See log well 1882.
1883	Indiana State Highway Department	8-27-56	740 B	50	---	---	---	G-Sd	Pl	U	---	---	See log well 1882.
1881	R. Martin	12-15-53	743 J	47	2	5; 3ft, 60ft, dia 1 1/2	30	5d, G	Pl	U	30 D	---	Yellow sand and gravel from 0-47 ft.

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

Well	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone				Use	Type of pump and horsepower	Remarks
									Depth to top (feet)	Thickness (feet)	Character	Geologic age			
37/2-20P1	M. Blad	Layne-Northern Co., Inc.	1-7-49	714	Dr	53	8	S; 8ft, dia 7	---	Sd, G	P1	---	I	---	Dd 16 ft after 1.25 hr pumping 140 gpm; see log well 20P2, Dd 21.2 ft after 2 hr pumping 550 gpm; Ca, L.
20P2	---	---	0-13-37	716	Dr	68	12	S; 20ft, 105gal	6	Sd, G	P1	U	I	---	Dd 20 ft after 3 hr pumping 580 gpm; see log well 20P2, Gray sand overlain by 4 ft muck.
20P3	---	---	5-30-46	716	Dr	65	12	S; 20ft, 80gal, dia 10	5	Sd, G	P1	U	I	T25	---
21D1	Indiana State Highway Department	---	5-23-57	714	B	50	---	---	---	Sd	P1	U	T	---	---
21D2	---	---	5-23-57	714	D	50	---	---	---	Sd	P1	---	T	---	L.
21D3	---	---	5-23-57	717	B	50	---	---	---	Sd	P1	---	T	---	See log well 21D2.
21E1	---	---	5-23-57	714	B	50	---	---	---	Sd	P1	---	T	---	Do.
21F1	M. Blad	Layne-Northern Co., Inc.	9-2-47	721	Dr	86	8	---	---	Sd	P1	---	T	---	---
21F2	---	---	1-28-48	721	Dr	51	30	Gp; S; 20ft, 105gal, dia 12	---	Sd	P1	---	Iv	T	Dd 30.5 ft after 6 hr pumping 830 gpm; L.
21K1	Indiana State Highway Department	---	11-18-56	777	D	50	---	---	---	---	---	---	T	---	L.
21K2	---	---	11-18-56	771	B	50	---	---	---	---	---	---	T	---	See log well 21K1.
21K3	---	---	11-18-56	772	B	50	---	---	---	---	---	---	T	---	Do.
21K4	---	---	11-18-56	772	B	50	---	---	---	---	---	---	T	---	Do.
21K5	---	---	11-18-56	773	B	50	---	---	---	---	---	---	T	---	Do.
21P1	E. Lonzo	Srivor Drilling Co.	7-23-56	778	J	71	21	S; 5ft, 60g, dia 1 1/2	52	Sd, G	P1	U	D	---	Yellow sand and gravel overlain by 15 ft Gray sand; Ca.
21R1	M. Juhau	---	8-27-48	775	J	76	2	S; 2 1/2 ft, 80g, dia 1 1/2	---	Sd	P1	---	D	---	---
21R2	J. Wozniak	---	4-17-48	780	J	78	2	S; 3ft, 60g, dia 1 1/2	57	G, Sd	P1	U	D	---	Gravel and sand overlain by 40 ft clay.
21R3	L. Wozniak	---	12-2-53	781	J	101	2 1/2	S; 5ft, 60g, dia 1 1/2	90	Sd	P1	C	D	---	Ca, L.
22C1	B. and B. Wilczak	---	4-3-43	760	J	56	2	S; 3ft, 60g, dia 1 1/2	42	Sd, G	P1	U	D	---	Sand and gravel from 0-56 ft.
22C2	E. S. Earl	---	1-9-48	760	J	65	2	---	44	Sd, G	P1	U	D	---	L.
22C3	J. Jovanich	---	7-23-56	738	J	57	2	S; 3 1/2 ft, 60g, dia 1 1/2	40	Sd	P1	C	D	J1/2	---
22E1	F. H. Bouchard	---	8-12-54	755	J	39	2	S; 3ft, 60g, dia 1 1/2	26	Sd, G	P1	U	D	J1/3	Sand and gravel overlain by 16 ft gray clay.
22G1	City of South Bond	Indiana-Michigan Water Development Co.	8-10-36	784	Dr	102	4	S; 5ft, 16gal	95	G	P1	C	P	J1	Dd 40 ft pumping 100 gpm; Ca, L.
22G2	C. Dunlap	Srivor Drilling Co.	3-10-48	770	J	50	2	S; 3ft, 60g, dia 1 1/2	---	Sd, G	P1	---	D	---	---
22G3	---	---	5-27-48	770	J	50	2	---	---	Sd, G	P1	---	D	---	---
22G4	---	---	8-19-48	770	J	82	2	---	---	Sd, G	P1	---	D	---	---
22K1	F. Powell	---	7-30	785	J	102	2	S; 3 1/2 ft, 60g, dia 1 1/2	02	Sd, G	P1	C	D	---	See log well 22G1.
22P1	W. Sannon	---	---	820	J	122	2	S; 3 1/2 ft, 10gal, dia 1 1/2	115	Sd	P1	C	D	J1	L.
22P2	H. Kink	---	9-3-54	821	J	137	2	S; 3 1/2 ft, 60g, dia 1 1/2	133	Sd	P1	C	D	J1	Ca, L.
22P3	C. Dunlap	---	2-18-52	817	J	111	3	S; 3ft, 10gal, dia 2	101	Sd	P1	C	D	---	Red sand overlain by 101 ft clay and blue gravel.
22Q1	J. Kochanowski	---	---	810	J	112	2	S; 3ft, 60g, dia 1 1/2	---	Sd	P1	---	D	---	---
23D1	City of South Bond	Layne-Northern Co., Inc.	2-23-55	803	Dr	192	6	---	102	Sd, G	P1	C	T	---	Bedrock at 180 ft; L.

Well No.	City of South Band	Company	Date	805 Dr	138	34	Op; S; dia	98	40	Sd,G	Pl	C	P	82	P	7100	Notes
2372-23D2	City of South Band	Layne-Northern Co., Inc.	7-5-55	805 Dr	138	34	Op; S; 40ft, 80e1, dia 18	98	40	Sd,G	Pl	C	P	82	P	7100	Dd 16.2 ft after 8 hr pumping 1,040 gpm; see log well 23D1; Ca.
23H1	do	Austin Drilling Co.	5-27-27	751 Dr	86	---	---	9	73	Sd,G	Pl	U	T	9	T	---	Well SJ 7-29 (KS, 1948); L.
23Q1	do	do	4-21-27	701 Dr	160	---	---	22	94	Sd,G	Pl	U	T	22	T	---	Well SJ 7-26 (KS, 1948); L.
23R1	do	Layne-Northern Co., Inc.	8-27-41	780 Dr	116	---	---	50	84	Sd,G	Pl	U	T	50	T	---	Well SJ 3-T1 (KS, 1948); L.
23R2	do	do	4-16-42	790 Dr	109	34-18	Op; S; 25ft, 130e1, dia 18	77	72	Sd	Pl	C	P	46	P	775	Dd 14 ft after 11 hr pumping 1,110 gpm; water level measured 51.5 ft below lad, 3-5-45; well SJ 3-4 (KS, 1948); L. See log well 23R4.
23R3	do	do	4-5-49	778 Dr	110	8-4	---	37	84	Sd,G	Pl	U	T	37	T	---	L.
23R4	do	do	4-11-49	775 Dr	105	8-4	---	36	68	Sd,G	Pl	U	T	36	T	---	L.
23R5	do	do	8-30-49	775 Dr	100	34	Op; S; 25ft, 80e1, dia 18	---	---	Sd,G	Pl	---	P	40	P	760	Dd 24.3 ft pumping 950 gpm; water level 38.20 ft below lad, 8-11-41; well SJ 3-3 (KS, 1948).
23R6	do	Austin Drilling Co.	1929	772 Dr	---	24-16	---	---	---	Sd,G	Pl	---	P	38	N	---	Dd 19.5 ft after 8.5 hr pumping 1,050 gpm; see log well 23R4.
23R7	do	do	1929	768 Dr	90	24-16	---	40	50	Sd,G	Pl	U	P	40	P	T	Dd 24.3 ft pumping 950 gpm; water level 38.20 ft below lad, 8-11-41; well SJ 3-3 (KS, 1948).
23R8	do	do	1929	772 Dr	---	24-16	---	---	---	Sd,G	Pl	---	P	40	P	T	Dd 19.3 ft pumping 1,420 gpm; water level measured 37.14 ft below lad, 3-5-45; see log well 23R4; well SJ 3-2 (KS, 1948).
24C1	Victoria Motors	Srivor Drilling Co.	4-2-54	747 J	45	2	S; 3ft, 10e1, dia 1 1/2	35	10	Sd,G	Pl	C	---	20	---	J	Dd 12 ft pumping 950 gpm; water level 39.95 ft below lad, 8-11-41; well SJ 3-1 (KS, 1948). For fishing bait; Ca, L.
24D1	City of South Band	Austin Drilling Co.	8-24-26	759 Dr	205	---	---	27	58	Sd,G	Pl	U	T	27	T	---	Bedrock at 195 ft; well SJ 7-15 (KS, 1948); L. See log well 24D1; well SJ 7-17 (KS, 1948).
24D2	do	do	10-8-26	759 Dr	205	---	S; 20ft	---	---	Sd,G	Pl	---	T	---	T	---	Bedrock at 128 ft; well SJ 7-24 (KS, 1948); L.
24D3	do	do	3-18-27	740 Dr	129	---	---	11	59	G,Sd	Pl	U	T	11	T	---	Bedrock at 122 ft; well SJ 7-24 (KS, 1948); L.
24E1	do	Boysco	1911	750 Dr	122	10	---	110	12	G	Pl	C	T	4	T	---	Bedrock at 122 ft; well SJ 8-9 (KS, 1948); L. See log well 24D1; well SJ 7-28 (KS, 1948).
24E2	do	Austin Drilling Co.	5-23-27	749 Dr	83	---	---	---	81	Sd,G	Pl	---	T	11	T	---	Bedrock at 180 ft; well SJ 7-20 (KS, 1948); L.
24F1	do	Gray Drilling Co.	12-20-28	788 Dr	185	---	---	---	25	G,Sd	Pl	C	D	68	D	JJ/4	Bedrock at 180 ft; well SJ 7-20 (KS, 1948); L. Sand overlain by 80 ft gravel; Ca.
24K1	P. H. Copeland	Srivor Drilling Co.	9-9-53	813 J	93	2	S; 3ft, 60g, dia 1 1/2	68	25	G,Sd	Pl	C	D	68	D	JJ/4	Bedrock at 185 ft; well SJ 7-21 (KS, 1948); L. Sand and gravel from 0-58 ft.
24L1	City of South Band	Gray Drilling Co.	1-17-27	802 Dr	200	---	---	---	---	Sd	Pl	---	T	---	T	---	Bedrock at 180 ft; well SJ 7-21 (KS, 1948); L. Sand and gravel from 0-109 ft.
24N1	Super Auto Salvage	Srivor Drilling Co.	5-7-51	805 J	58	2	S; 3ft, 60g, dia 1 1/2	38	20	Sd,G	Pl	V	---	38	---	---	Bedrock at 180 ft; well SJ 6-3K (KS, 1948); L.
25A1	City of South Band	R. Korsey	8-1-28	706 Dr	185	---	---	92	33	Sd	Pl	V	---	92	T	---	Bedrock at 180 ft; well SJ 6-3K (KS, 1948); L.
25D1	do	do	8-13-57	813 J	82	2	S; 4ft, 60g, dia 1 1/2	---	---	Sd	Pl	---	D	68	D	J1	Bedrock at 180 ft; well SJ 6-3K (KS, 1948); L.
25E1	J. Jones	Srivor Drilling Co.	8-30-47	836 J	131	2	S; 3ft, 60g, dia 1 1/2	92	38	Sd,G	Pl	V	D	92	D	---	Sand and gravel from 0-131 ft.
25E2	E. Lukas	do	9-10-52	830 J	109	2	S; 3ft, 60g, dia 1 1/2	88	20	Sd,G	Pl	V	D	89	D	---	Sand and gravel from 0-109 ft.
25E3	W. Rock	do	1-6-51	825 J	131	3	S; 6ft, 80g, dia 2	---	---	Sd,G	Pl	V	---	96	---	J1-1/2	Yellow sand and gravel overlain by 10 ft blue clay.
25E4	Standard Oil Co.	do	7-20-53	832 J	131	3	S; 5ft, 80g, dia 2	72	50	Sd,G	Pl	V	---	72	P	---	Ca, L.
25E5	W. Rock	Srivor Drilling Co.	9-13-57	832 J	77	2	S; 4ft, 80g, dia 1 1/2	94	25	Sd	Pl	V	---	64	P	J1	Sand and gravel from 0-94 ft.
25E8	J. Roth	do	8-17-54	840 J	119	2	S; 3ft, 60g, dia 1 1/2	77	17	Sd,G	Pl	V	D	77	D	---	L.
25F1	R. W. Maurice	do	8-17-54	843 Dr	185	4	---	---	---	G,Sd	Pl	---	T	80	T	---	Sand and gravel from 0-84 ft.
25H1	City of South Band	Layne-Northern Co., Inc.	12-21-54	843 Dr	175	34	S; 40ft, 80e1, dia 16	---	---	G,Sd	Pl	V	---	87	P	760	Dd 14 ft after 3 hr pumping 850 gpm; see log well 25H1; Ca.

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

Well	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone				Use	Type of pump and horsepower	Remarks	
									Depth to top (feet)	Thickness (feet)	Character	Geologic age				Conditions of occurrence
37/2-25K1	G. Palmer	Srifer Drilling Co.	12-8-54	837 J	J	125	3	S; 5ft, 60g, dia 2	84	11	Sd, G	P1	U	84	J	Sand and gravel from 0-125 ft; Ca. Yield 30 gpm; well S3 43 (KS, 1948); L.
25K2	L. F. Sumrall	Layne-Northern Co., Inc.	10-25-44	848 Dr	Dr	144	6	S; 8ft, dia 5	92	52	Sd, G	P1	U	92	D	Sand and gravel from 0-114 ft.
25K3	Z. H. Robinson	Srifer Drilling Co.	8-3-55	833 J	J	114	2 1/2	S; 5ft, 60g, dia 1 1/2	83	31	Sd, G	P1	U	83	D	Sand and gravel from 0-112 ft.
25L1	R. Albert	do	8-28-46	831 J	J	110	2	S; 3ft, 60g, dia 1 1/2	92	30	Sd, G	P1	U	92	D	Do 18 ft pumping 40 gpm; L.
25L2	J. Darlakovich	do	8-22-52	847 J	J	112	2	S; 5ft, 60g, dia 2	72	49	Sd, G	P1	U	72	D	Gravel from 0-98 ft.
25L3	D. A. Row	do	8-23-52	851 J	J	116	2	S; 10ft, dia 4	77	77	Sd, G	P1	U	77	D	Gravel from 0-98 ft.
25L4	Michiana Realty Co.	Layne-Northern Co., Inc.	7-9-54	833 Dr	Dr	121	6	S; 10ft, dia 4	80	18	Sd, G	P1	U	80	D	Gravel from 0-98 ft.
25X1	P. Nash	Srifer Drilling Co.	7-23-52	835 J	J	82	2	S; 3ft, 60g, dia 1 1/2	68	20	Sd, G	P1	U	68	D	Gravel from 0-98 ft.
25X2	do	do	8-8-52	820 J	J	86	2	S; 3ft, 60g, dia 1 1/2	62	65	Sd, G	P1	U	62	D	Gravel from 0-98 ft.
25N1	C. Hasler	do	6-24-46	820 J	J	70	2	S; 3ft, 60g, dia 1 1/2	63	31	Sd, G	P1	U	63	D	Gravel from 0-98 ft.
25N2	Mr. Krueer	do	10-21-46	820 J	J	92	2 1/2	S; 3ft, 60g, dia 1 1/2	72	15	Sd, G	P1	U	72	D	Gravel from 0-98 ft.
25N3	Mr. Fabyan	do	11-17-52	820 J	J	94	2 1/2	do	68	29	Sd, G	P1	U	68	D	Gravel from 0-98 ft.
25N4	F. Fuzekas	do	8-18-54	825 J	J	87	2	S; 3ft, 60g, dia 1 1/2	58	59	Sd, G	P1	U	58	D	Gravel from 0-98 ft.
25N5	P. Woodcox	do	7-22-54	820 J	J	75	2	S; 3ft, 60g, dia 1 1/2	---	---	Sd, G	P1	U	---	D	Gravel from 0-98 ft.
25N6	L. Stokes	do	4-13-57	819 B	B	29	---	---	---	---	Sd, G	P1	U	---	T	Gravel from 0-98 ft.
25N7	D. Fuqua	do	4-15-57	821 B	B	28	---	---	---	---	Sd, G	P1	U	---	T	Gravel from 0-98 ft.
25N8	Indiana State Highway Department	do	4-15-57	821 B	B	29	---	---	---	---	Sd, G	P1	U	---	T	Gravel from 0-98 ft.
25N9	do	do	3-1-49	835 J	J	95	2	S; 3ft, 60g, dia 1 1/2	84	14	Sd, G	P1	U	84	D	Gravel from 0-98 ft.
25N10	do	do	10-2-54	835 J	J	94	2 1/2	S; 5ft, 60g, dia 1 1/2	80	14	Sd, G	P1	U	80	D	Gravel from 0-98 ft.
25P1	E. V. D. Korps	Srifer Drilling Co.	6-27-51	830 J	J	103	2	S; 3ft, 60g, dia 1 1/2	84	19	Sd, G	P1	U	84	D	Gravel from 0-98 ft.
25P2	R. W. Britton	do	2-11-54	845 J	J	111	2 1/2	S; 3ft, 60g, dia 1 1/2	90	21	Sd, G	P1	U	90	D	Gravel from 0-98 ft.
25P3	R. Falan	do	1-21-53	780 Dr	Dr	113	6	S; 10ft, 60g, dia 5 1/2	30	83	Sd, G	P1	U	30	I	Gravel from 0-98 ft.
25P4	J. W. Majewski	Indiana-Michigan Water Co.	5-6-27	705 J	J	86	2	S; 3ft, 60g, dia 1 1/2	56	30	Sd, G	P1	U	56	D	Gravel from 0-98 ft.
26A1	Royal Rubber Co.	Srifer Drilling Co.	9-12-51	815 J	J	92	2	S; 4ft, 10sl, dia 1 1/2	---	---	Sd, G	P1	U	---	T	Gravel from 0-98 ft.
26B1	R. L. Sibly	Austin Drilling Co.	6-11-57	835 J	J	118	2 1/2	S; 5ft, 60g, dia 1 1/2	80	12	Sd, G	P1	C	80	D	Gravel from 0-98 ft.
26C1	City of South Bend	Srifer Drilling Co.	4-28-48	812 J	J	77	2	S; 3ft, 60g, dia 1 1/2	100	18	Sd, G	P1	U	100	D	Gravel from 0-98 ft.
26E1	F. N. Plala	do	6-30-48	838 J	J	109	2	S; 10ft, 20sl, dia 4 1/2	82	15	Sd, G	P1	U	82	D	Gravel from 0-98 ft.
26E2	F. Barker	do	12-17-59	808 Dr	Dr	106	6	S; 10ft, 20sl, dia 4 1/2	43	86	Sd, G	P1	U	43	I	Gravel from 0-98 ft.
26F1	A. C. Fuitts	Layne-Northern Co., Inc.	4-5-49	780 Dr	Dr	93	6	S; 10ft, 20sl, dia 5 1/2	28	05	Sd, G	P1	U	28	I	Gravel from 0-98 ft.
26H1	J. Edwards	Indiana-Michigan Water Development Co.														
26J1	Sealtest Corp.															
26K1	G. F. Burnett Co.															

Well No.	Company	Location	Date	Dr	118	B	S; 15ft, 15x1, dia 7 1/2	60	58	SD, G	PI	C	43	P	T	T7-1/2	Remarks
37/2-2612	Sinclair Refining Co.	Indiana-Michigan Water Development Co.	0-27-46	800	118												Dr 10 ft pumping 60 gpm; Ca, L.
2612	Indiana State Highway Department		3- 6-57	797 D	50												L.
2613			3- 6-57	803 B	50												See log well 26P1.
26M1			11-28-58	803 B	50												L.
26M2			11-28-58	803 B	50												See log well 26M1.
26M3			11-28-58	803 B	50												See log well 26M1.
26M4			11-28-58	808 B	50												See log well 26M3.
26P1			3- 6-57	813 B	50												See log well 26P1.
26P2			5- 8-57	787 D	50												See log well 26P1.
26P3			5- 8-57	785 B	50												See log well 26L2.
2701	T. Baaty	Praver Drilling Co.	8- 2-46	803 J	102	2	3; 3 1/2 ft, 60g, dia 1 1/2			SD	PI		62	D			Gray clay overlain by 30 ft brown sand.
27F1	Indiana State Highway Department		11-28-58	799 B	50												Gray clay overlain by 27 ft brown sand.
27F2			11-28-58	788 D	50												Gray clay overlain by 30 ft brown sand.
27G1	R. Berkhoiser	Praver Drilling Co.	7-10-52	815 J	110	2	3; 3 1/2 ft, 60g, dia 1			SD	PI		82	D			Gray clay overlain by 30 ft brown sand.
27G2	Indiana State Highway Department		11-28-58	802 B	50												Gray clay overlain by 30 ft brown sand.
27G3			11-28-58	799 B	50												Gray clay overlain by 18 ft brown sand.
27G4			11-28-58	797 D	50												Gray clay overlain by 17 ft brown sand.
27J1			11-28-58	806 B	50												See log well 26M3.
27J2			11-28-58	807 B	50												Do.
27J3			11-28-58	809 B	50												Do.
27J4			11-28-58	805 B	50												See log well 26M1.
27J5			11-28-58	805 D	50												See log well 26P1.
27J6			11-28-58	806 B	50												L.
27J7			10-12-50	799 B	50												L.
27J8			10-12-50	787 B	50												L.
27J9			10-12-58	801 B	50												L.
27J10			10-12-58	800 B	50												L.
27K1	A. Datcho	Praver Drilling Co.	4-20-51	799 J	92	J	3; 3 ft, 60g, dia 2			SD, G	PI		58	D	J1		Gray clay overlain by 18 ft brown sand.
27K2	R. Kalish		8-10-58	803 J	94	2	3; 4 ft, 60g, dia 1	70	24	SD	PI		80	D	L		Gray clay overlain by 17 ft brown sand.
27K3	S. Nemes		1950	810 J	103	J	3; 6 ft, 60g, dia 2	85	18	SD, G	PI		88	D	L		See log well 26P1.
27K4	Indiana State Highway Department		10-12-50	799 B	50												L.
27L1	J. Marisch	Praver Drilling Co.		798 J	93	2	3; 3 1/2 ft, 10x1, dia 1 1/2	70	23	SD, G	PI		53	D	J3/4		Ca, L.
27M1	E. Kobor		7-23-47	840 J	130	2	3; 4 ft, 60g, dia 1			SD, G	PI		90	D			Ca, L
27M2	W. Smith			840 J	149	2	3; 3 1/2 ft, 60g, dia 1 1/2	120	28	SD, G	PI		114	D	J1		Ca, L
27N1	C. Bennett		7-27-57		101	4	3; 7 1/2 ft, 60g, dia 3			SD	PI		67	D			L.
27P1	C. W. Anderson		12- 8-40		114	3	3; 5 ft, 60g, dia 2	70	44	SD, G	PI		90	D	L		L.
28A1	J. Miko		9- 2-46	775 J	94	2	3; 2 1/2 ft, 60g, dia 1 1/2			SD	PI		50	D			L.
28C1	A. Molnar		10-28-48	777 J	78	3	3; 3 ft, 60g, dia 2			SD, G	PI		54	D			Ca, L.
28E1	H. Morris		6-19-53	805 J	158	2	3; 3 1/2 ft, 10x1, dia 1 1/2	95	63	SD, G	PI		91	D	J3/4		Ca, L.
28F1	H. J. Kindl		3- 7-48	782 J	70	2	3; 3 ft, 60g, dia 1 1/2			SD, G	PI		58	D			
28F2	M. D. Johnson		8-10-55	782 J	110	J	3; 6 ft, 60g, dia 2			SD	PI		72	D			
28F3	E. L. Rungesser		8-12-48	785 J	82	2	3; 3 ft, 60g, dia 1 1/2			SD	PI		52	D			
28G1	W. Ruszkowski			773 J	81	2	do	71	10	SD	PI		56	D, 5	J		L.
28G2	S. Sabo			800 J	90	2	3; 3 1/2 ft, 10x1, dia 1 1/2			SD, G	PI		56	D	J		
28G3	C. E. Trombrado			800 J	130	2	3; 3 1/2 ft, 60g, dia 1			SD, G	PI		87	D			Yellow sand overlain by 11 1/2 ft sand and blue clay.
28G4	D. Golichowski	Praver Drilling Co.	7-12-50	810 J	128	J	3; 5 1/2 ft, 80g, dia 1 1/2			SD	PI		101	D	J1-1/2		
28J1	G. Perkins		7- 8-55	830 J	120	J	3; 5 ft, 60g, dia 2	80	40	SD, G	PI		80	D			L.
28J2	F. Savole			830 J	101	2	3; 6 ft, 60g, dia 2	80	21	SD, G	PI		78	D	J1		L.
28K1	E. Hartz		3-20-48	815 J	112	2	3; 3 ft, 60g, dia 1 1/2			SD, G	PI		86	D			L.

Table 2.--Records of wells and test holes in St. Joseph 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				
37/2-28X2	S. H. Saith	Srivor Drilling Co.	10-10-53	800 J	800 J	68	2	S; 3/4ft., 60g., dia 1 1/2	8	Sd.G	P1	C	30	J	J	L. Yield 10 gpm; gravel overlain by 30 ft sand, yellow sand and gravel from 0-87 ft.	
28B1	V. Chlebek	R. Reddick	8-12-57	717 J	45	2	S; 3/4ft., 60g., dia 1 1/2	33	Sd.G	P1	U	U	12	D		Yellow sand and gravel from 0-87 ft.	
28B2	C. Guar	Srivor Drilling Co.	9-21-50	725 J	67	2	S; 3/4ft., 60g., dia 1 1/2	43	Sd.G	P1	U	U	24	D		Yellow sand and gravel from 0-112 ft.	
28B3	C. Bailoy		8-20-56	727 J	112	2	S; 3/4ft., 10s1, dia 1 1/2	99	Sd.G	P1	U	U	13	D	J1/2	Yellow sand and gravel from 0-87 ft.	
28B4	M. Fox			727 J	67	2	S; 3/4ft., 60g., dia 1 1/2	43	Sd.G	P1	U	U	24	D		Sand and gravel from 0-48 ft; Ca.	
28C1	X. Mattheys		9-4-52	726 J	48	2	S; 3/4ft., 80g., dia 1 1/2	36	Sd.G	P1	U	U	12	D		L.	
28C2	M. L. Strong		10-28-52	730 J	63	2	S; 4ft., 80g., dia 1 1/2	39	G	P1	C	C	10	D		L.	
28D1	X. Blad	Layne-Northern Co., Inc.	10-28-53	710 Dr	171	6		121					15	T		L.	
28F1	K. Landman	Srivor Drilling Co.	6-25-52	740 J	72	2	S; 3/4ft., 10s1, dia 1 1/2	18	Sd	P1	C	C	26	D		L.	
28F2	K. Naragon		9-3-53	741 J	68	3	S; 5ft., 60g., dia 2 1/2	19	Sd	P1	C	C	26	D		See log well 28F1; Ca.	
28F3	R. D. Strycker		7-10-50	732 Dr	23	1 1/2	S; 3/4ft., 60g., dia 1 1/2		Sd	P1	D	D	8	D		Ca.	
28G1	L. H. Hartia			742 J	54	2	S; 3/4ft., 80g., dia 1 1/2		Sd	P1			22	D	J3/4	Ca, L.	
28J1	Indiana Farm Bureau Co-Operative Assn., Inc.		6-10-54	740 J	107	2	S; 3/4ft., 60g., dia 1 1/2	7	Sd.G	P1	C	C	20	N		Ca, L.	
28J2			11-15-54	738 J	150	2		4	Sd.G	P1	C	C	20	P	J3/4	Ca, L.	
28K1	O. D. Kessler		5-22-46	752 J	55	2	S; 3/4ft., 80g., dia 1 1/2		Sd.G	P1			38	D		Ca, L.	
28K2			12-6-47	752 J	59	2	S; 3/4ft., 80g., dia 1 1/2	16	Sd.G	P1	U	U	43	D		Sand and gravel from 0-38 ft.	
28L1	A. Dudeck			748 J	50	2	S; 3/4ft., 60g., dia 1 1/2		Sd	P1			38	D			
28L2	R. Livengood			748 J	39	2	S; 3/4ft., 60g., dia 1 1/2		Sd	P1			30	D			
28L3	R. Yoder			752 J	58	2	S; 4ft., 80g., dia 1 1/2		Sd	P1			38	D	J		
28L4	D. Worthington			752 J	88	2			Sd	P1			36	D			
28L5	C. A. Newman	Srivor Drilling Co.	6-24-52	752 J	54	2	S		Sd.G	P1					J3/4		
28P1	R. H. Dreyer		6-50	785 J	60	2	S; 2ft., 10s1	43	Sd.G	P1	U	U	44			Sand and gravel from 0-60 ft.	
30Q1	Illness Concrete Products Co.	Remeland Well Co.		720 J	50	J			Sd.G	P1	U	U	10	P, I	C5		
30R1	L. Kelly			745 J	53	2	S; 3/4ft., 80g., dia 1 1/2		Sd	P1			38	D		Sand and gravel from 0-60 ft.	
31A1	Western Indiana Sand and Gravel Co.	Woody and Keal Well Drilling Co.	8-11-59	750 J	77	2			Sd	P1			36	P		Yield 10 gpm; Ca, L.	
31B1	G. J. Snyder	Srivor Drilling Co.	10-10-46	750 Dr	70	4	S; 6ft., 60g., dia 2 1/2		Sd.G	P1			32	D		Sand and gravel from 0-48 ft.	
31C1	J. Lichtenbarger		8-28-48	755 J	67	2	S; 3/4ft., 80g., dia 1 1/2	40	Sd.G	P1	U	U	8	D, S	J3		
32B1	C. Beyers	Srivor Drilling Co.	6-50	775 J	81	2	S; 3/4ft., 60g., dia 1 1/2	27	Sd.G	P1	U	U	42	D	J1/2	Sand and gravel from 0-87 ft.	
32F1	E. Luke			765 J	54	2		25	Sd.G	P1	U	U	23	D		Sand and gravel from 0-61 ft.	
32G1	M. Ott	Srivor Drilling Co.	12-3-43	780 J	57	2	S; 3/4ft., 80g., dia 1 1/2	21	Sd.G	P1	U	U	46	D	J1/2	Sand and gravel from 0-67 ft; Ca.	

37/2-3202	L. Kline	Driver Drilling Co.	1-18-56	780 J	62	2 1/2	S: 5ft, 60g, dia 1 1/2	44	Sd.G	Pl	U	D	-----	Sand and Gravel from 0-82 ft.
3203	L. Wolborn	-----do-----	10-19-53	780 J	60	2	S: 3ft, 60g, dia 1 1/2	26	Sd	Pl	U	D, 1	-----	Sand from 0-60 ft.
3204	M. C. Lake	-----do-----	9-23-50	770 J	71	2	S: 3 1/2 ft, 60g, dia 1 1/2	9	Sd.G	Pl	U	D, 1	-----	Ca, L.
3205	Sumption Prairie Cemetery	-----do-----	-----	770 J	60	2	S: 3 1/2 ft, 60g, dia 1 1/2	9	Sd	Pl	U	-----	P	Ca.
3206	G. A. Penning	-----do-----	-----	770 J	75	2	S: 4 1/2 ft, 60g, dia 1 1/2	43	Sd	Pl	U	-----	J1/2	L.
3207	C. Walgumath	Driver Drilling Co.	6-30-53	780 J	82	2	S: 4 1/2 ft, 60g, dia 1 1/2	48	Sd	Pl	C	-----	-----	L.
3208	L. R. Millock	-----do-----	-----	825 J	142	2	S: 3 1/2 ft, 60g, dia 1 1/2	130	Sd	Pl	C	-----	L	L.
3209	O. Treash	-----do-----	5-31-45	825 J	148	2	S: 3 1/2 ft, 60g, dia 1 1/2	-----	G	Pl	C	-----	-----	Ca, L.
3210	W. E. Johnson	-----do-----	6-15-55	810 J	138	2	S: 3 1/2 ft, 60g, dia 1 1/2	-----	Sd	Pl	C	-----	J1	-----
3211	R. Pletcher	-----do-----	12-6-45	830 J	147	2	S: 4 ft, 60g, dia 1 1/2	145	Sd.G	Pl	C	-----	L3/4	Fine sand overlain by 145 ft blue clay
3212	E. L. Hedman	-----do-----	9-29-51	830 J	150	2	S: 4 ft, 60g, dia 1 1/2	-----	Sd	Pl	C	-----	J1	-----
3213	F. Kohn	-----do-----	-----	810 J	65	2	S: 4 1/2 ft, 60g, dia 1 1/2	31	Sd.G	Pl	U	-----	J	L.
3214	E. J. Kish	-----do-----	0-17-45	820 J	119	2	S: 3 1/2 ft, 60g, dia 1 1/2	80	Sd.G	Pl	U	-----	L3/4	L.
3215	D. F. Ruddleston	-----do-----	-----	820 J	160	2	S: 3 1/2 ft, 60g, dia 1 1/2	-----	Sd	Pl	U	-----	J1	Ca.
3216	T. Morgan	Driver Drilling Co.	11-18-46	820 J	128	2	S: 3 1/2 ft, 60g, dia 1 1/2	-----	G.Sd	Pl	-----	-----	-----	-----
3217	P. Retruck	-----do-----	9-17-53	820 J	153	2	S: 3 1/2 ft, 60g, dia 1 1/2	120	Sd	Pl	C	-----	J3/4	Ca, L.
3218	A. Horvath	-----do-----	8-23-46	810 J	110	2	S: 2 1/2 ft, 60g, dia 1 1/2	-----	Sd	Pl	-----	-----	-----	-----
3219	M. Kovatch	-----do-----	5-14-53	815 J	81	2	S: 3 ft, 60g, dia 2	68	Sd.G	Pl	C	-----	-----	L.
3220	F. Berkowski	-----do-----	-----	805 J	79	2	S: 3 1/2 ft, 60g, dia 1 1/2	-----	Sd	Pl	-----	-----	J3/4	-----
3221	H. C. Studobaker	-----do-----	-----	850 J	140	2	S: 4 ft, 60g, dia 1 1/2	-----	Sd	Pl	-----	-----	-----	-----
3222	J. Coronceo	Driver Drilling Co.	6-8-46	815 J	78	2	S: 3 1/2 ft, 60g, dia 1 1/2	-----	Sd	Pl	-----	-----	-----	-----
3223	W. C. Shortman	-----do-----	4-19-47	830 J	94	2	S: 3 ft, 60g, dia 1 1/2	-----	Sd	Pl	-----	-----	-----	-----
3224	C. Campbell	-----do-----	1-2-53	805 J	112	2	-----do-----	104	Sd	Pl	-----	-----	-----	-----
3225	F. and M. Beanighoff	-----do-----	-----	805 J	60	2	S: dia 1	-----	Sd	Pl	-----	-----	-----	-----
3226	J. Quinlan	Driver Drilling Co.	6-1-50	800 J	48	2	S: 3 1/2 ft, 60g, dia 1 1/2	29	Sd.G	Pl	U	-----	-----	Sand and gravel from 0-46 ft.
3227	J. C. L'Honnandieu	-----do-----	3-15-51	805 J	48	2	S: 3 1/2 ft, 60g, dia 1 1/2	33	Sd.G	Pl	U	-----	-----	-----
3228	W. E. Cosagys	-----do-----	-----	805 J	51	2	S: 3 1/2 ft, 60g, dia 1 1/2	-----	Sd.G	Pl	U	-----	-----	-----
3229	R. T. Strong	-----do-----	5-31-48	800 J	40	2	S: 3 ft, 60g, dia 1 1/2	28	G.Sd	Pl	U	-----	-----	-----
3230	K. Ulrich	-----do-----	12-5-53	800 J	45	2	-----do-----	38	Sd.G	Pl	-----	-----	-----	-----
3231	D. Holdrod	-----do-----	5-17-46	800 J	45	2	-----do-----	-----	Sd.G	Pl	-----	-----	-----	-----
3232	A. M. Hafer	-----do-----	Summer 1951	815 J	107	2	S: 3 1/2 ft, 60g, dia 1 1/2	35	Sd.G	Pl	C	-----	-----	-----
3233	J. Hoy	-----do-----	10-13-52	795 J	61	2	-----do-----	43	Sd	Pl	C	-----	-----	-----
3234	H. Dille, Jr.	-----do-----	10-2-57	705 J	51	2	-----do-----	-----	Sd.G	Pl	-----	-----	-----	Originally drilled to 32 ft; sand and gravel from 32-51 ft.
3235	J. Reed	Mr. Smith	-----	785 J	78	2	S: 3 1/2 ft, 10sl, dia 1 1/2	-----	Sd	Pl	-----	-----	-----	-----
3236	R. W. Berkhelmer	Driver Drilling Co.	7-3-50	800 J	46	2	S: 3 1/2 ft, 60g, dia 1 1/2	27	Sd.G	Pl	U	-----	-----	Sand and gravel overlain by 18 ft clay.
3237	R. Dietl	-----do-----	9-22-50	800 J	44	2	S: 3 ft, 60g, dia 1 1/2	22	Sd.G	Pl	C	-----	-----	Sand and gravel overlain by 22 ft clay.
3238	M. Goddard	-----do-----	10-80	805 J	58	2	-----do-----	24	Sd.G	Pl	U	-----	-----	Sand and gravel overlain by 18 ft clay.
3239	R. Sims	-----do-----	8-21-54	805 J	80	2	S: 3 ft, 60g, dia 1 1/2	-----	Sd.G	Pl	-----	-----	-----	-----
3240	S. A. Rittonhouse	-----do-----	9-24-48	805 J	41	3	S: 4 ft, 60g, dia 2	-----	Sd.G	Pl	-----	-----	-----	-----
3241	-----do-----	-----do-----	5-31-45	805 J	38	2	S: 2 1/2 ft, 60g, dia 1 1/2	-----	Sd	Pl	-----	-----	-----	-----
3242	C. Dowron	-----do-----	5-17-52	800 Dr	47	4	S: 8 ft, 12sl	11	Sd.G	Pl	U	-----	-----	Red sand and gravel from 0-47 ft.
3243	R. Lister	-----do-----	3-10-54	-----	113	2	S: 3 1/2 ft, 60g, dia 1 1/2	90	Sd.G	Pl	U	-----	-----	-----
3244	F. Vas	-----do-----	5-19-54	-----	116	3	S: 8 ft, 60g, dia 2	93	Sd.G	Pl	U	-----	-----	Sand and gravel from 0-116 ft.
3245	M. Couls	-----do-----	-----	-----	102	2	S: 3 ft, 60g, dia 1 1/2	88	Sd.G	Pl	U	-----	-----	Yellow sand and gravel overlain by 18 ft yellow clay.
3246	R. Tomlinson	-----do-----	4-26-46	810 J	76	2	-----do-----	-----	Sd.G	Pl	-----	-----	-----	-----
3247	S. Clonyson	-----do-----	3-12-46	800 J	74	2	-----do-----	-----	Sd.G	Pl	-----	-----	-----	-----

Table 2.--Records of wells and test holes in St. Joseph 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				
3772-36N3	G. Toth	---	---	800 J	J	76	2	S; 3ft, 60g, dia 1 1/2	---	Sd	Pl	---	50 D	J2	Ca.	
38DA	C. A. Walters	Spivor Drilling Co.	7-23-54	800 J	J	76	2	do	---	Sd,G	Pl	---	62 D	J1	Ca.	Sand and gravel from 0-83 ft.
38E1	R. E. Waldo	---	12-30-55	J	J	93	3	S; 5ft, 60g, dia 2	72	Sd,G	Pl	U	72 D	---	---	Ca.
38E2	E. Skoog	---	---	J	J	58	2	S; 3 1/2ft, 60g, dia 1 1/2	---	Sd	Pl	---	35 D	L	---	Do 24.5 ft pumping 180 gpm; L.
38F1	Trustees, Cantor Township	Layno-Northern Co., Inc.	11-20-53	Dr	Dr	124	8	S; 20ft	64	Sd,G	Pl	U	64 P	---	---	See log well 36F1.
38F2	T. Van Geoy	Spivor Drilling Co.	6-50	J	J	98	2	S; 3 1/2ft, 60g, dia 1 1/2	68	Sd,G	Pl	U	68 D	---	---	Ca., L.
38F3	J. Roark	---	11-5-51	J	J	100	2	S; 3 1/2ft, 10x1, dia 1 1/2	79	Sd	Pl	U	79 D	J3/4	---	Sand overlain by 89 ft sand and gravel.
38L1	H. J. Bryant, Jr.	---	9-16-54	J	J	93	2	S; 3ft, 60g, dia 1 1/2	70	Sd,G	Pl	U	70 D	---	---	Ca.
38L2	J. H. Snider	---	---	J	J	83	2	S; 3 1/2ft, 10x1, dia 1 1/2	---	Sd,G	Pl	---	58 D	J1	---	L.
38L3	Mr. Raker	Spivor Drilling Co.	---	J	J	93	2	S; 3ft, 60g, dia 1 1/2	77	Sd,G	Pl	U	77 D	---	---	---
38L4	M. L. Long	---	6-11-45	J	J	94	2	S; 2 1/2ft, 80g, dia 1 1/2	---	Sd,G	Pl	U	68 D	---	---	---
38L5	W. Phillips	---	10-7-47	845 J	J	83	2	S; 3ft, 60g, dia 1 1/2	68	Sd,G	Pl	U	60 D	---	---	Conurso gravel overlain by 30 ft clay with many rocks.
38L6	W. O. Waininger	---	6-19-47	845 J	J	94	2	do	---	G	Pl	U	69 D	---	---	Sand and gravel from 0-83 ft.
38L7	E. Jewell	---	6-26-47	855 J	J	94	2	do	---	Sd,G	Pl	U	78 D	---	---	---
38L8	H. Kirkley	---	12-21-50	J	J	83	2	do	64	Sd,G	Pl	U	84 D	---	---	---
38L9	J. Jackson	---	10-20-52	845 J	J	92	2	S; 3 1/2ft, 60g, dia 1 1/2	67	Sd,G	Pl	U	67 D	J3/4	---	---
38L10	D. C. Sutherland	---	10-22-53	845 J	J	75	2	S; 3ft, 60g, dia 1 1/2	56	Sd,G	Pl	U	56 D	J3/4	---	Sand and gravel from 0-75 ft.
38L11	C. Pulley	---	1-2-53	J	J	91	2	do	61	Sd,G	Pl	U	61 D	---	---	Sand and gravel from 0-81 ft; Ca.
38M1	J. Rea	---	7-2-48	J	J	50	2	do	30	Sd,G	Pl	U	30 D	J3/4	---	Sand and gravel overlain by 20 ft clay.
38M2	J. M. Smiley	---	---	J	J	40	2	do	---	Sd	Pl	---	30 D	---	---	---
38M3	Evangelical United Brethren Church	---	11-28-46	J	J	50	2	S; 3 1/2ft, 10x1, dia 1 1/2	---	Sd	Pl	---	23 P	J3/4	---	Sand and gravel overlain by 21 ft gravel.
38M4	W. E. Werner	Spivor Drilling Co.	6-8-49	J	J	47	2	S; 3ft, 60g, dia 1 1/2	32	Sd,G	Pl	U	32 D	---	---	---
38M5	H. Hall	---	---	J	J	58	2	do	38	Sd,G	Pl	U	38 D	---	---	---
38M6	Mr. Daniels	---	9-4-46	J	J	78	2	S; 2 1/2ft, 80g, dia 1 1/2	---	Sd,G	Pl	U	52 D	---	---	---
38M7	R. F. Dix	---	6-50	J	J	60	2	S; 3ft, 60g, dia 1 1/2	36	Sd,G	Pl	U	36 D	---	---	Sand and gravel from 0-80 ft. Gravel and sand overlain by 50 ft sand.
38M8	A. E. Holt	---	7-23-54	J	J	57	2	S; 3ft, 60g, dia 1 1/2	35	Sd,G	Pl	U	35 D	J1/2	---	Sand and gravel overlain by 18 ft top soil and clay.
38N1	E. Gawthrop	---	3-19-51	800 J	J	46	3	S; 4ft, 60g, dia 2	21	Sd,G	Pl	U	21 P	J1-1/2	---	Sand overlain by 40 ft gravel; Ca.
38N2	Circles Service Oil Co.	---	---	J	J	795 J	2	S; 4 1/2ft, 50g, dia 1 1/2	12	0, 3d	Pl	U	12 P	J1/2	---	Yellow coarse sand and gravel overlain by 10 ft yellow surfaco soil.
38N3	J. R. Combs	---	---	J	J	805 J	2	do	32	Sd,G	Pl	U	32 D	---	---	---
38N4	W. O. Faulkner	---	6-13-52	800 J	J	49	2	S; 3 1/2ft, 80g, dia 1 1/2	---	Sd	Pl	---	24 D	J3/4	---	---
38N5	N. C. Hoderich	---	---	J	J	53	2	S; 4 1/2ft, 80g, dia 1 1/2	---	Sd	Pl	---	29 D	J3/4	---	---
38P1	E. C. Hummel	Spivor Drilling Co.	4-28-51	820 J	J	63	2	S; 3 1/2ft, 60g, dia 1 1/2	35	Sd,G	Pl	U	35 D	---	---	---

37/2-3892	E. Tableman	12-6-48	825 J	64	2	S; 3ft, 60g, dia 1 1/4	42	22	Sd, G	Pl U	U	42	D	---	---	---	Sand and gravel from 0-64 ft.
3893	R. Scherzinger	8-4-54	825 J	75	2	do	57	16	Sd, G	Pl U	U	57	D	---	---	---	Sand and gravel from 0-75 ft.
3894	P. Miller	9-4-53	825 J	62	2	do	48	16	G, Sd	Pl U	U	48	D	---	---	---	L.
3895	F. J. Kirschner	3-22-52	825 J	61	2	S; 3ft, 10al, dia	41	20	Sd, G	Pl U	U	41	D	J1/2	---	---	Yellow sand and gravel from 0-61 ft.
3896	J. Hofer	5-20-54	825 J	95	2 1/2	S; 3ft, 80g, dia 1 1/4	82	39	Sd, G	Pl U	U	82	D	J1	---	---	Sand and gravel from 0-95 ft.
3897	E. W. Bixler	---	830 J	83	2	S; 3ft, 80g, dia 1 1/4	65	28	Sd, G	Pl U	U	65	D	---	---	---	Yellow sand and gravel overlain by 20 ft yellow clay.
3898	E. Talcott	11-6-50	835 J	76	2	S; 3ft, 80g, dia	49	27	Sd, G	Pl U	U	49	D	---	---	---	Sand and gravel from 0-76 ft.
3899	L. Craft	9-24-51	820 J	62	2	do	44	18	Sd, G	Pl U	U	44	D	---	---	---	Yellow sand and gravel from 0-62 ft.
3901	L. Moore	7-30-48	845 J	92	2	S; 4ft, 80g, dia	66	26	Sd, G	Pl U	U	66	D	---	---	---	Sand and gravel from 0-92 ft.
3902	O. C. Biesbrook	---	845 J	95	2	S; 3ft, 80g, dia	72	23	Sd, G	Pl U	U	72	D	---	---	---	L.
3903	J. Lloyd	---	845 J	93	2	do	67	26	Sd, G	Pl U	U	67	D	J1	---	---	Sand overlain by 80 ft gravel.
3904	D. Hominger	---	860 J	94	2	S; 3ft, 80g, dia 1 1/4	66	28	G, Sd	Pl U	U	66	D	---	---	---	L.
3905	M. Schultz	4-28-48	865 J	117	4	S; 3ft, 84, dia 3	66	28	G, Sd	Pl U	U	66	D	---	---	---	Sand overlain by 80 ft gravel.
3906	R. H. Elyse	8-28-50	860 J	94	2	S; 3ft, 80g, dia	68	28	Sd, G	Pl U	U	68	D	---	---	---	Sand and gravel from 0-94 ft.
3907	R. St. Germain	---	855 J	102	2 1/2	S; 3ft, 80g, dia 1 1/4	66	38	Sd, G	Pl U	U	66	D	---	---	---	L.
3908	G. Packard, Jr.	10-29-46	835 J	84	2	S; 3ft, 80g, dia 1 1/4	70	24	Sd, G	Pl U	U	70	D	---	---	---	Sand and gravel from 0-84 ft.
3909	R. W. Stanifer	---	845 J	92	2	do	68	24	Sd, G	Pl U	U	68	D	---	---	---	Yellow sand and gravel overlain by 16 ft yellow clay.
3910	C. T. Yoder	---	855 J	93	2	do	---	---	Sd, G	Pl U	U	---	D	J1	---	---	Idl 27 ft pumping 210 gpm; L.
37/3-1K1	Layne-Northern Co., Inc.	8-20-54	742 Dr	131	6	S; 10ft, dia 4	112	19	Sd, G	Pl C	C	18	P	T10	---	---	Idl 27 ft pumping 250 gpm; L.
1R1	Sibley Machine and Foundry Corp.	3-27-51	742 Dr	120	8	S; 14ft	94	26	Sd	Pl C	C	19	K	---	---	---	Ca, L.
2E1	J. Bryce	11-28-53	748 J	57	2	S; 3ft, 60g, dia	---	---	Sd	Pl C	C	11	D	---	---	---	Ca, L.
2L1	H. Lilly	3-23-51	748 J	62	2	do	18	44	Sd	Pl C	C	7	D	J1/3	---	---	Ca, L.
2N1	J. Lesink	6-30	745 Dr	56	2	S; 3ft, 60g, dia 1 1/4	16	42	Sd, G	Pl U	U	16	D	J3/4	---	---	Sand and gravel from 0-58 ft.
2N2	H. E. Fletcher	10-10-52	745 Dr	53	4	S; 4ft, 10al, dia 1 1/4	23	30	Sd, G	Pl U	U	23	D	J3/4	---	---	L.
3O1	C. Hunt	12-2-53	743 J	44	2	S; 3ft, 60g, dia 1 1/4	25	19	Sd, G	Pl U	U	25	D	J1/3	---	---	Ca, L.
3K1	J. E. Hamilton	11-50	745 J	50	2	S; 3ft, 60g, dia	44	6	Sd, G	Pl C	C	39	D	---	---	---	L.
3L1	C. L. Hunter	---	743 J	35	2	S; 3ft, 80g, dia 1	---	---	Sd	Pl U	U	4	D	J1/2	---	---	Ca.
3N1	Votrans Homes of Mishawaka, Inc.	12-13-46	742 Dr	20	6	do	---	---	Sd, G	Pl U	U	7	T	---	---	---	See log well 21A; Ca.
3N2	City of Mishawaka	7-28-58	741 Dr	197	6 1/2	do	112	83	Sd, G	Pl C	C	27	T	---	---	---	Bedrock at 193 ft; Ca, L.
3N3	W. E. Clark	2-3-50	743 J	71	2	S; 3ft, 60g, dia 1 1/4	63	8	Sd	Pl C	C	16	D	---	---	---	Sand overlain by 63 ft clay; Ca.
3N4	City of Mishawaka	4-3-59	741 Dr	174	8	do	107	60	Sd, G	Pl C	C	---	T	---	---	---	L.
3N5	---	3-23-59	741 Dr	198	8	do	125	38	Sd, G	Pl C	C	28	D	---	---	---	Bedrock at 198 ft.
3Q1	D. Ringer	10-3-46	746 J	49	2	S; 4ft, 60g, dia 1 1/4	24	22	Sd	Pl C	C	8	D	J1/3	---	---	See log well JG1; Ca.
4E1	R. Stacy	5-18-53	742 J	46	2	S; 3ft, 80g, dia 1 1/4	---	---	Sd	Pl C	C	---	T	---	---	---	See log well 21A.
4J1	Votrans Homes of Mishawaka, Inc.	12-10-46	741 Dr	20	6	do	---	---	Sd, G	Pl U	U	6	T	---	---	---	See log well 21A.
4J2	---	12-18-46	741 Dr	20	6	do	2	18	G, Sd	Pl U	U	2	T	---	---	---	Bedrock at 190 ft; L.
4R1	City of Mishawaka	7-24-56	738 Dr	193	7 1/2	do	115	58	Sd, G	Pl C	C	28	T	---	---	---	Bedrock at 197 ft; Ca, L.
4R1	---	3-9-53	743 Dr	137	10-6	do	170	35	Sd, G	Pl C	C	30	T	---	---	---	Bedrock at 205 ft; L.
5C1	City of South Bend	8-18-48	747 Dr	205	38	Op; S; 25ft, 105al, dia 26	148	57	G, Sd	Pl C	C	29	P	T150	---	---	Idl 14.7 ft after 10 hr pump- ing 2,200 gpm; L.
5C2	---	12-9-48	747 Dr	205	60-26	Op; S; 26ft, 105al, dia 26	---	---	G, Sd	Pl C	C	35	P	T	---	---	Idl 15.3 ft after 167 hr pump- ing 1,600 gpm; water level measured 36.35 ft below level 1-27-45; see log well 5E2; well SJ 5-1 (NS, 1948).
5E1	---	12-30	747 Dr	205	60-26	Op; S; 26ft, 105al, dia 26	---	---	G, Sd	Pl C	C	35	P	T	---	---	Bedrock at 206 ft; well SJ 5-T4 (KS, 1948); L.
5E2	Harmon-Ness Co.	12-11-50	747 Dr	206	6	S; 20ft	133	73	G, Sd	Pl C	C	30	T	---	---	---	Idl 8.75 ft after 8 hr pumping 2,180 gpm; see log well 5E2.
5F1	Layne-Northern Co., Inc.	1-19-54	747 Dr	204	38	Op; S; 40ft, 105al, dia 26	140	64	Sd, G	Pl C	C	39	P	---	---	---	Idl 8.75 ft after 8 hr pumping 2,180 gpm; see log well 5E2.

Table 2.--Records of wells and test holes in St. Joseph 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				
37/3-3P2	City of South Bond	Layne-Northern Co.,	5-26-54	747	Dr	106	38	Gp; S; 40ft, 155h1, dia 26	136	60	G, Sd	Pl C	C	38	P	T150	Dd 7.5 ft after 8 hr pumping 2,210 gpm; see log well 582.
5L1	Morris Park Country Club	Indiana-Michigan Water Development Co.	6-19-50	749	Dr	173	6	S; 20ft, 45h1	146	27	Sd, G	Pl C	C	44	P	S10	Dd 10 ft pumping 90 gpm; L.
5P1	H. Eason	-----do-----	11-27-53	750	Dr	80	6	S; 15ft, 20h1, dia 3 1/2	45	35	Sd, G	Pl U	U	45	D	-----	Dd 10 ft pumping 90 gpm; L.
5P2	Morris Park Country Club	-----do-----	1923	745	Dr	86	12	-----	---	---	Sd, G	Pl U	U	10	O	T50	Observation well St. Joseph 19; water level measured 10.75 ft below 184; 4-8-43; well SJ 88 (KS, 1948); Ca.
5R1	O. Brown	Srivor Drilling Co.	12-14-50	751	J	---	2	S; 3 1/2ft, 60g, dia 1 1/2	---	---	Sd	Pl	---	D	---	J3/4	Bedrock at 212 ft; L.
6A1	City of South Bond	Layne-Northern Co., Inc.	11-21-30	746	Dr	213	6	-----	---	---	Sd, G	Pl	---	30	T	---	---
6A2	C. Caron	Srivor Drilling Co.	11-21-57	748	J	36	2	S; 3 1/2ft, 10h1, dia 1 1/2	---	---	G	Pl	---	23	D	---	---
6G1	R. D. Cox	-----do-----	12-14-48	752	J	62	2	S; 3ft, 60g, dia 1 1/2	48	14	Sd, G	Pl U	U	48	D	---	Sand and gravel from 0-92 ft.
6H1	R. Smith	Indiana-Michigan Water Development Co.	6-36	755	Dr	213	4-2 1/2	S; 8ft, 50g, dia 2 1/2	---	---	Sd, G	Pl	---	---	N	---	Bedrock at 212 ft; see log well 611.
6H2	City of South Bond	-----do-----	10-31-30	748	Dr	199	---	-----	---	---	Sd, G	Pl	---	30	T	---	Well SJ 5-T1 (KS, 1948); L.
6H3	-----do-----	Rayson-Ness Co.	11-4-30	748	Dr	70	6	-----	---	---	Sd	Pl C	C	57	D	J	Well SJ 5-T2 (KS, 1948); L.
6N1	L. Quimby	Srivor Drilling Co.	3-25-50	745	J	152	2	S; 3 1/2ft, 60g, dia 1 1/2	140	12	Sd	Pl C	C	57	D	---	Ca. L.
7A1	V. D. Morgan	-----do-----	-----	745	Dr	138	2	-----	---	---	Sd, G	Pl C(?)	C(?)	47	O	---	Observation well St. Joseph 17; water level measured 46.29 ft below land; 3-30-45; well SJ 8P (KS, 1948).
7H1	Trustees, Diocese Northern Indiana Corp.	Srivor Drilling Co.	3-25-54	736	Dr	100	4	S; 8ft, 12h1	85	15	Sd, G	Pl C	C	38	P	---	L.
7K1	L. Sellers	-----do-----	3-8-54	724	J	98	3	S; 5 1/2ft, 10h1, dia 1 1/2	90	8	Sd	Pl C	C	21	D	J1-1/2	L.
7N1	Fattoro Co.	Layne-Northern Co., Inc.	6-28-30	685	Dr	72	---	-----	28	39	Sd, G	Pl C	C	15	T	---	L.
7R2	-----do-----	-----do-----	7-27-50	685	Dr	49	12	-----	22	27	G, Sd	Pl C	C	15	T	---	See log well 7N1.
7P1	City of South Bond	Austin Drilling Co.	7-16-26	706	Dr	151	---	-----	28	14	Sd	Pl C(?)	C(?)	28	T	---	Bedrock 126 ft; well SJ 7-13 (KS, 1948); L.
7R1	-----do-----	-----do-----	3-11-25	713	Dr	122	---	-----	---	---	Sd	Pl	---	---	T	---	Bedrock 115 ft; well SJ 7-3 (KS, 1948); L.
7R2	-----do-----	-----do-----	2-22-27	712	Dr	134	---	-----	---	---	Sd, G	Pl	---	32	T	---	Bedrock at 127 ft; well SJ 7-22 (KS, 1948); L.
8C1	H. N. Light	Indiana-Michigan Water Development Co.	7-7-43	742	Dr	122	4	S; 3ft, 60g	---	---	Sd	Pl C	C	27	D, P	---	Dd 18 ft pumping 28 gpm; well SJ 81 (KS, 1948); Ca. L.
8N1	J. Mischelein	Srivor Drilling Co.	6-30	716	J	62	2	S; 3ft, 60g, dia 1 1/2	40	22	Sd, G	Pl U	U	40	D	---	Bedrock 126 ft; well SJ 7-13 (KS, 1948); L.
10B1	Jentz Manufacturing Co.	Indiana-Michigan Water Development Co.	9-4-52	748	Dr	75	6	S; 13ft, 8h1, dia 4 1/2	57	18	Sd	Pl C	C	30	I	T5	Sand and gravel from 0-92 ft.
10C1	R. Arnold	Srivor Drilling Co.	5-20-54	737	J	52	2	S; 3ft, 60g, dia 1 1/2	48	4	Sd	Pl C	C	14	D	J	Dd 30 ft pumping 60 gpm; L.
10G2	City of Mishawaka	Layne-Northern Co., Inc.	3-28-52	737	Dr	112	8	-----	---	---	Sd, G	Pl	---	18	T	---	Ca. L. Bedrock at 100 ft; L.

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

Well	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone				Water level (feet)	Use	Type of pump and horsepower	Remarks
									Depth to top (feet)	Thickness (feet)	Character	Geologic age				
37/3-13K1	J. Bialock	Striver Drilling Co.	3-2-53	729 J	Dr	41	2	S; 3ft, 80g, dia 1 1/2	Sd,G	Pl	U	10	D	---	Yellow sand and gravel from 0-41ft; Ca.	
14B1	City of Mishawaka	Layne-Northern Co., Inc.	5-19-41	702 Dr	Dr	108	42	Gp; S; 25ft, 180gal, dia 20	Sd,G	Pl	U	12	P	725	Dd 10.7 ft after 24 hr pumping, 1,200 gpm; well SJ 111-1-2 (KS, 1948); L.	
14C1	---	---	12-17-47	705 Dr	Dr	97	38	Gp; S; 25ft, 105gal, dia 20	Sd,G	Pl	U	8	P	720	Dd 12 ft after 8 hr pumping, 1,600 gpm; sea log well 14B1.	
14J1	C. Martinczak	Striver Drilling Co.	8-50	727 J	J	52	2	S; 2ft, 60g, dia 1 1/2	Sd	Pl	U	---	D	---	Sand from 0-52 ft.	
14J2	W. Booker	---	9-25-52	727 J	J	46	2	S; 3ft, 108l, dia 1 1/2	Sd,G	Pl	U	8	D	---	Sand and gravel from 0-48 ft.	
14J3	J. W. Peterson	---	9-8-54	728 J	J	43	2	S; 3ft, 00g, dia 1 1/2	Sd	Pl	U	5	D	---	Sand from 0-43 ft.	
14K1	Bendis Aviation Corp.	Layne-Northern Co., Inc.	11-24-53	724 Dr	Dr	184	4	---	Sd,G	Pl	---	---	T	---	Bedrock at 148 ft; Ca, L.	
14K2	---	---	6-28-54	726 Dr	Dr	145	10	S; 20ft, 20gal	Sd,G	Pl	---	---	I	730	Dd 68 ft after 4 hr pumping, 500 gpm; bedrock at 148 ft; L.	
14K3	---	---	7-13-54	724 Dr	Dr	142	10	S; 20ft	Sd,G	Pl	---	---	I	730	Dd 71 ft pumping, 460 gpm; screen, upper 10 ft 40gal, lower 10 ft 20gal; Ca, L.	
14M1	Wheelabrator Co.	A. L. Cox Co., Inc.	1938	723 Dr	Dr	165	10	S	Sd,G	Pl	---	---	P, I, Ac	---	Yield 300 gpm; Ca.	
14N1	City of Mishawaka	Layne-Northern Co., Inc.	9-26-53	729 Dr	Dr	148	8	---	G, Sd	Pl	U	12	T	---	L.	
15C1	South Bend Modern Moulding and Manufacturing Co.	Striver Drilling Co.	10-31-53	710 Dr	Dr	75	4	S; 8ft, 12gal	Sd,G	Pl	C	35	I	---	Ca, L.	
15H1	Clarks Laundry and Dry Cleaning Co.	Indiana-Michigan Water Development Co.	4-29	722 Dr	Dr	99	10	S; 14ft, 10gal, dia 9 1/2	G, Sd	Pl	C	9	I	---	Dd 0 ft pumping, 150 gpm; well originally drilled to 44 ft, deepened 7-15-37; water level 18 ft below bed, 7-15-37; well SJ 115-1 (KS, 1948) Ca, L.	
15H2	Varsity Cafe	Striver Drilling Co.	3-16-54	722 J	J	45	2	S; 3ft, 80g, dia 1 1/2	Sd,G	Pl	U	20	Ac	J	Sand and gravel from 0-45 ft.	
15M1	Dodge Manufacturing Co.	Layne-Northern Co., Inc.	6-20-49	723 Dr	Dr	52	18	Gp; S; 10ft, 105gal, dia 8	Sd,G	Pl	U	13	P, I	---	Dd 19.2 ft pumping, 600 gpm; sea log well 15M2; Ca.	
15M2	---	---	7-15-50	724 Dr	Dr	88	18	Gp; S; 10ft, 50g, dia 10	Sd,G	Pl	U	14	P, I	730	Dd 17 ft pumping, 500 gpm; Ca, L.	
15R1	City of Mishawaka	---	2-1-54	724 Dr	Dr	75	8	---	Sd,G	Pl	---	---	T	---	Ca, L.	
15R2	---	---	4-5-54	724 Dr	Dr	70	42	Gp; S; 15ft, 105gal, dia 18	Sd,G	Pl	U	5	P	775	Dd 35.1 ft after 7.5 hr pumping, 1,040 gpm; Ca.	
16A1	C. Colo and Son	---	1-3-50	703 Dr	Dr	50	8	---	G	Pl	U	12	T	---	Bedrock (?) at 43 ft; L.	
16B1	U. S. Rubber Co.	---	6-25-59	695 Du	Du	20	36	---	Sd	Pl	---	---	T	---	For dewatering.	
16B2	---	Layne-Northern Co., Inc.	7-25-59	692 Dr	Dr	35	8	S; 9ft	Sd,G	Pl	C	8	---	---	Dd 22 ft after 2 hr pumping, 15 gpm; L.	
16C1	Kamm and Schelling Co., Inc.	---	3-20-42	695 Dr	Dr	52	8-8	---	Sd,G	Pl	C	12	T	---	See log well 16C3.	
16C2	---	Indiana-Michigan Water Development Co.	9-18-42	695 Dr	Dr	116	6	S; 36ft, 60g	G	Pl	---	---	D	---	Well SJ 116-4 (KS, 1948).	
16C3	---	---	1-12-46	695 Dr	Dr	119	6	---	Sd,G	Pl	---	---	T	---	L.	
16C4	---	---	5-16-46	695 Dr	Dr	125	6	S	Sd	Pl	---	---	I	715	Bedrock at 108 ft; well SJ 116-1-74 (KS, 1948); Ca, L.	

Well No.	Company	Date	Dr	176	9-6	Remarks	Sd, G	PI	V	C	N	I	T	34	174 ft	Remarks
1801	City of Mishawaka	7-30-54	715	176	9-6		Sd, G	PI	V					34		Bedrock at 174 ft; L.
1802	C. Cole and Son	1-5-50	715	63	6		Sd, G	PI	V					27		Dd 70 ft pumping 120 gpm; screen, upper 5 ft 2 1/2 in.
1803	Kama and Shellinger Co., Inc.	5-1-33	703	127	6	S; 13ft	Sd, G	PI	C					20		Well SJ 116-3-1 (KS, 1948); L.
1804	Layne-Northern Co., Inc.	6-23-34	703	135			Sd, G	PI						20		Dd 70.5 ft pumping 550 gpm; well SJ 116-1-2 (KS, 1948);
1805	Indiana-Michigan Water Development Co.	8-11-34	703	137	30-18	Op; S; 25ft, 130sl, dia 18	Sd, G	PI						28		Bedrock at 112 ft; L.
1806	Indiana-Michigan Water Development Co.	1-24-48	710	114	6	S	Sd, G	PI						20		Bedrock at 130 ft; well SJ 116-1-2 (KS, 1948).
1807	H. Kersay	Dofo	723	723	6											Dd 3.75 ft pumping 80 gpm; L.
1808	Layne-Northern Co., Inc.	3-24-49	721	31	6	S; 10ft	Sd, G	PI	V					16		Gravel overlain by 28 ft sand.
1809	Bonnie Dean Ice Cream Co.	9-4-42	723	39	4	S; 8ft, 80g, dia 3	Sd, G	PI	V					17		Well SJ 116-3-1 (KS, 1948).
1810	Swift & Co.	9-10-29	721	75	10	S; 14ft, 30sl, dia 8	Sd	PI								Dd 76 ft pumping 120 gpm; water level 2 ft above 100 ft; screen, upper 6 ft 2 1/2 in. low; gravel, upper 6 ft 2 1/2 in. low; (KS, 1948); Ca, L.
1811	Hygrade Food Products Corp.	11-30-42	721	89	12	S; 15ft, dia 1 1/2	G, Sd	PI	C					5		Well SJ 116-3-1 (KS, 1948).
1812	Indiana-Michigan Water Development															Dd 5 ft pumping 150 gpm; well SJ 116-3-2 (KS, 1948); Ca, L.
1813	Layne-Northern Co., Inc.	9-20-45	719	116	6		Sd, G	PI						12		Dd 23 ft pumping 200 gpm; L.
1814	Indiana-Michigan Water Development	10-9-45	719	133	6-4		Sd, G	PI						6		Sec log well 174L.
1815	Mishawaka Farmers Dairy Co.	2-21-34	723	30	10	S; 15ft, 30sl, dia 9 1/2	Sd, G	PI	U					12		Dd 86 ft after 8 hr pumping 60 gpm; sand overlain by 33 ft sand and gravel; clay at 69 ft.
1816	McMillan Bowling Alley	8-5-46	713	80	8	S; 3ft, dia 7	Sd, G	PI	U					22		Dd 17 ft; pumping 180 gpm; well SJ 116-3-2 (KS, 1948); L.
1817	N. Dawson	7-17-51	719	40	2	S; 2 1/2ft, 60g, dia 1 1/2	Sd, G	PI	U					11		Well drilled through well 180L; bedrock at 147 ft; well SJ 116-3-2 (KS, 1948); L.
1818	Coca-Cola Bottling Co.	7-29-54	714	98	8	S; 22ft, 16sl	Sd, G	PI	U					28		Dd 18 ft pumping 80 gpm; well SJ 116-3-2 (KS, 1948); L.
1819	National Milk Co.	11-2-37	700	67	12	S; 14ft, 30sl, dia 8 1/2	Sd, G	PI	C					13		Well SJ 7-14 (KS, 1948); L.
1820	Indiana-Michigan Water Development Co.	8-20-43	700	147	8	S	Sd, G	PI	C							Well SJ 7-14 (KS, 1948); L.
1821	City of South Bend	8-31-43	700	74	8	S; 15ft, 40g, dia 8	G, Sd	PI	C					23		Sec log well 180M; well SJ 7-8 (KS, 1948); L.
1822	City of South Bend	7-26-26	690	112			Sd	PI						24		Dd 17 ft; pumping 180 gpm; well SJ 116-3-2 (KS, 1948); L.
1823	City of South Bend	3-15-26	688	70			Sd	PI								Well drilled through well 180L; bedrock at 147 ft; well SJ 116-3-2 (KS, 1948); L.
1824	City of South Bend	2-15-26	693	70			Sd	PI								Well SJ 7-8 (KS, 1948); L.
1825	City of South Bend	2-27-26	693	70			Sd	PI								Sec log well 180M; well SJ 7-8 (KS, 1948); L.
1826	City of South Bend	5-6-26	693	169			Sd	PI								Well SJ 7-8 (KS, 1948); L.
1827	City of South Bend	10-15-25	712	100			Sd	PI								Well SJ 7-8 (KS, 1948); L.
1828	City of South Bend	11-4-25	688	220			Sd	PI	U					2		Well SJ 7-8 (KS, 1948); L.
1829	City of South Bend	3-0-27	692	85			Sd, G	PI	V					22		Well SJ 7-8 (KS, 1948); L.
1830	City of South Bend	6-18-26	688	105			Sd, G	PI	V					5		Well SJ 7-8 (KS, 1948); L.
1831	City of South Bend	4-29-26	710	103			Sd, G	PI	V					5		Well SJ 7-8 (KS, 1948); L.
1832	W. Rodgers	12-5-49	741	67	2	S; 3ft, 10sl	Sd, G	PI	V					44		Well SJ 7-8 (KS, 1948); L.
1833	City of South Bend	4-18-26	700	140			Sd, G	PI	V					27		Well SJ 7-8 (KS, 1948); L.
1834	City of South Bend	4-12-26	732	130			Sd	PI	V							Bedrock at 175 ft; well SJ 7-10 (KS, 1948); L.
1835	City of South Bend	6-7-25	732	183			Sd	PI	V					27		Well SJ 7-10 (KS, 1948); L.

Table 2.--Records of wells and test holes in St. Joseph 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				
377-19C1	City of South Bond	Austin Drilling Co.	4-18-26	737 Dr	116	---	---	---	---	89	Sd	Pl	U	---	---	See log well 19B1; well SJ 7-5 (KS, 1948). Bedrock at 162 ft; well SJ 7-25 (KS, 1948); L. Ca, L.
19B1	---	---	3-28-27	756 Dr	169	---	---	---	---	---	Sd, G	Pl	---	---	---	---
19B1	J. Filley	Striver Drilling Co.	7-14-53	797 J	66	2	8; 3ft, 60g, dia 1 1/2	---	---	14	Sd, G	Pl	U	---	---	---
2001	D. Freeman	---	805 J	85	2	---	---	---	---	---	Sd	Pl	---	---	---	---
2002	D. Nelson	Striver Drilling Co.	2-19-54	809 Dr	117	4	S; 8ft, 14sl	---	---	27	Sd, G	Pl	U	---	---	---
2003	Concrete Products Corp.	Indiana-Michigan Water Development Co.	7-14-43	760 Dr	91	4	S; 6ft, 60g, dia 3	---	---	43	Sd, G	Pl	U	---	---	Yellow sand and gravel from 0-117 ft. Dd 12 ft; pumping 28 gpm; see log well 20D4.
20D4	---	---	3-7-51	762 Dr	128	10	S; 18ft, 100sl, dia 9 1/2	---	---	---	G, Sd	Pl	---	---	---	---
20D5	P. Behm, Sr.	---	7-26-57	793 Dr	116	6	S; 5ft, 40sl	---	---	6	Sd, G	Pl	C	---	---	---
20D6	C. C. Ziemer	Striver Drilling Co.	11-19-51	752 J	102	2	S; 3 1/2ft, 10sl, dia 1 1/2	---	---	9	Sd	Pl	C	---	---	---
20C1	C. F. Cunningham	Indiana-Michigan Water Development Co.	6-24-47	882 Dr	295	6	---	---	---	---	---	---	---	---	---	See log well 20D5. No water reported; bedrock at 231 ft; L.
20H1	St. Francis Convert	---	---	790 Dr	200	8	---	---	---	---	Sd, G	Pl	---	---	---	---
20K1	C. F. Cunningham	Indiana-Michigan Water Development Co.	4-36	892 Dr	212	4	S; dia 1 1/2	---	---	5	G, Sd	Pl	C	---	---	Yield 40 gpm; L.
20K2	---	---	10-2-47	802 Dr	223	6	S; 13 1/2ft, dia 4	---	---	10	G, Sd	Pl	C	---	---	---
21B1	J. Brackelmaire	Striver Drilling Co.	---	728 J	46	2	S; 3 1/2ft, 60g, dia 1 1/2	---	---	36	Sd	Pl	C	---	---	Dd 27 ft pumping 40 gpm; L.
21G1	M. D. Yecko	---	750 J	57	2	2	S; 3ft, 60g, dia 1 1/2	---	---	17	Sd, G	Pl	U	---	---	---
21G2	H. Brown	---	735 J	56	2	---	---	---	---	42	Sd, G	Pl	U	---	---	Sand and gravel from 0-57 ft.
21G3	R. G. Bultora	---	736 J	45	2	---	---	---	---	14	Sd, G	Pl	C	---	---	Sand and gravel from 0-56 ft.
21H1	A. E. Vannoni	---	743 J	54	2	2	S; 3 1/2ft, 10sl, dia 1 1/2	---	---	5	Sd	Pl	C	---	---	Ca, L.
21R2	M. Meunick	---	9-3-48	731 J	43	2	S; 3ft, 60g, dia 1 1/2	---	---	6	Sd	Pl	C	---	---	Yellow sand overlain by 48 ft blue and yellow clay.
21R3	S. Cneidi	---	5-19-50	738 J	40	2	S; 4ft, 60g, dia 1 1/2	---	---	26	Sd, G	Pl	C	---	---	See log well 21G9.
21R4	L. Six	---	11-6-50	738 J	40	2	S; 3 1/2ft, 60g, dia 1 1/2	---	---	---	Sd, G	Pl	---	---	---	Sand and gravel from 0-40 ft.
21J1	S. Hearrell	---	8-24-55	805 Dr	97	4	S; 8ft, 10sl	---	---	70	Sd, G	Pl	U	---	---	---
21K1	L. C. Phenegar	---	6-12-56	852 J	148	3	S; 6ft, 60g, dia 2	---	---	32	Sd, G	Pl	U	---	---	Sand and gravel from 0-48 ft.
21Q1	H. Rutling	---	6-8-53	883 J	175	3	S; 5ft, 60g, dia 2	---	---	7	Sd	Pl	C	---	---	---
21Q2	K. Rehder	---	11-15-54	872 J	148	2	S; 5 1/2ft, 60g, dia 2	---	---	8	Sd	Pl	C	---	---	---
21R1	C. T. Dunham	---	10-28-55	880 J	194	3	S; 4 1/2ft, 10sl, dia 2	---	---	10	Sd	Pl	C	---	---	---
21R2	J. Kurth	---	9-10-54	882 J	176	3	S; 4ft, 60g, dia 1 1/2	---	---	26	Sd, G	Pl	C	---	---	---
22B1	F. Donath	---	---	752 J	51	2	S; 3 1/2ft, 60g, dia 1 1/2	---	---	21	Sd, G	Pl	C	---	---	---
22B1	---	---	---	800 Dr	110	10	S; 15ft	---	---	33	Sd, G	Pl	C	---	---	---
22B1	Dry Island Sand and Gravel Co.	Layne-Northern Co., Inc.	3-14-58	---	---	---	---	---	---	77	Sd, G	Pl	C	---	---	---
22B1	---	---	10-5-46	753 J	40	2	S; 3ft, 60g, dia 1 1/2	---	---	16	Sd, G	Pl	U	---	---	---
22B2	P. Miller	Striver Drilling Co.	8-13-47	762 J	40	2	S; 2 1/2ft, 60g, dia 1 1/2	---	---	13	Sd, G	Pl	U	---	---	---
22B3	V. Shreve	---	9-13-50	753 J	40	2	S; 3ft, 60g, dia 1 1/2	---	---	10	Sd, G	Pl	U	---	---	---
22B3	D. Overholser	---	---	772 J	69	2	S; 3 1/2ft, 60g, dia 1 1/2	---	---	7	Sd	Pl	C	---	---	---
22B4	J. DeClark	---	7-18-52	772 J	69	2	S; 3 1/2ft, 60g, dia 1 1/2	---	---	82	Sd	Pl	C	---	---	---
23N1	N. Brown	W. Rodgers	2-10-55	743 J	12	2	S; 3ft, 60g, dia 1 1/2	---	---	26	Sd, G	Pl	U	---	---	---

Well No.	Owner	Location	Date	Dr	176	8	105	6	Sd.G	Pl	C	T	Notes
2551	Trustees, Penn Township	Layno-Northern Co., Inc.	2-27-53	795	176	10	39	20	Sd.G	Pl	U	J3	Bedrock at 135 ft; L. Ca., L.
2552	C. Love, Sr.	Striver Drilling Co.	3-30-53	807	60	3	140	9	Sd	Pl	C	J	Yield 8 gpm; sand and gravel from 0-40 ft; Ca.
2553	E. Angol	R. Reddish	4-9-57	764	40	2	20	20	Sd	Pl	U	J1/2	Yellow sand and gravel overlain by 30 ft yellow clay. Sand overlain by 59 ft blue clay. Ca., L.
2554	T. Fry	Striver Drilling Co.	11-5-45	808	74	2	100	87	Sd.G	Pl	C	J1-1/2	Yellow sand and gravel overlain by 30 ft yellow clay.
2555	J. Haines	Striver Drilling Co.	8-4-54	837	167	2	78	24	Sd.G	Pl	U	J3/4	Yellow sand and gravel overlain by 30 ft yellow clay.
2556	F. J. Michalo	Striver Drilling Co.	8-9-51	846	96	2	59	7	Sd	Pl	C	J1/2	Sand overlain by 59 ft blue clay. Ca., L.
2557	H. C. Ecklor	Striver Drilling Co.	5-23-55	837	61	2	55	6	Sd	Pl	C	J1/2	Sand and gravel overlain by 20 ft yellow clay. Ca.
2558	Mr. Hall	Striver Drilling Co.	8-7-50	817	82	2	78	13	Sd.G	Pl	U	J1/4	Sand and gravel overlain by 20 ft yellow clay. Ca.
2559	J. Reynolds	Striver Drilling Co.	12-5-50	817	110	2	82	20	Sd.G	Pl	V	J3/4	Sand and gravel overlain by 20 ft yellow clay. Ca.
2560	H. Carman	Striver Drilling Co.	7-9-46	857	91	2	137	7	Sd.G	Pl	C	J1-1/2	Sand and gravel overlain by 20 ft yellow clay. Ca.
2561	H. Kunnally	Striver Drilling Co.	5-31-51	850	91	2	166	56	Sd	Pl	C	J1-1/2	Sand and gravel overlain by 20 ft yellow clay. Ca.
2562	J. Taggle	Striver Drilling Co.	11-19-55	792	39	2	180	30	Sd.G	Pl	U	J1-1/2	Sand and gravel overlain by 20 ft yellow clay. Ca.
2563	W. O. Price	Striver Drilling Co.	8-18-53	860	102	2	100	21	Sd.G	Pl	V	J1	Oil test; bedrock at 250 ft; well G-SJ 127-1 (NS, 1948). Ca., L.
2564	P. Klein	Striver Drilling Co.	11-18-45	860	100	2	165	5	Sd.G	Pl	C	L	Sand and gravel overlain by 145 ft gravel. Ca., L.
2565	E. D. Zoltwanger	Striver Drilling Co.	4-29-52	874	144	2	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2566	H. Shirk, Jr.	Striver Drilling Co.	8-31-53	880	174	3	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2567	E. Wallis, Jr.	Striver Drilling Co.	4-24-54	878	180	3	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2568	E. Wallis	Striver Drilling Co.	5-5-54	885	180	3	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2569	W. Bollinger	Striver Drilling Co.	5-3-50	872	130	2	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2570	H. Powell	Striver Drilling Co.	5-3-50	872	130	2	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2571	C. and B. Weiss	M. C. Plitcher	7-19-45	846	500	8	82	21	Sd.G	Pl	V	J1	Sand and gravel overlain by 145 ft gravel. Ca., L.
2572	R. D. Robinson	Striver Drilling Co.	9-30-50	890	103	2	165	5	Sd.G	Pl	C	L	Sand and gravel overlain by 145 ft gravel. Ca., L.
2573	D. Horstbarger	Striver Drilling Co.	8-13-56	867	170	3	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2574	C. V. Biltz	Striver Drilling Co.	8-13-56	867	215	3	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2575	St. Francis Convent	Striver Drilling Co.	8-25-57	902	173	3	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2576	F. A. DeNava	Striver Drilling Co.	12-6-49	896	163	2	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2577	H. Lentino	Striver Drilling Co.	11-1-50	887	188	4	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2578	E. Beechler	Striver Drilling Co.	5-5-48	882	108	3	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2579	Mr. Alton	Striver Drilling Co.	7-11-59	879	152	3	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2580	J. Broksvelt	Striver Drilling Co.	6-47	876	153	3	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2581	R. Lehinger	Striver Drilling Co.	10-50	876	150	3	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2582	T. Pymant	Striver Drilling Co.	10-50	891	110	2	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2583	W. J. Below	Striver Drilling Co.	7-6-47	893	168	2	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2584	L. Marker	Striver Drilling Co.	7-30-45	899	168	2	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2585	P. Dalio	Striver Drilling Co.	4-15-54	885	147	2	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2586	A. Martens	Striver Drilling Co.	10-15-58	860	158	2	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2587	D. Koil	Striver Drilling Co.	3-17-58	802	174	3	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2588	F. Battles	Striver Drilling Co.	3-24-58	895	140	3	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2589	R. C. Stein	Striver Drilling Co.	6-12-48	842	133	2	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2590	R. G. Brandt	Striver Drilling Co.	8-2-56	840	133	2	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2591	J. E. Falloy	Striver Drilling Co.	8-2-56	840	133	2	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2592	M. R. Compeau	Striver Drilling Co.	6-52	878	153	3	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2593	R. Dufendach	Striver Drilling Co.	9-49	895	171	3	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2594	J. Battles	Striver Drilling Co.	3-28-58	868	144	3	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2595	F. S. Orlich	Striver Drilling Co.	3-2-51	843	131	2	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2596	D. C. Alexander	Striver Drilling Co.	10-21-58	862	141	3	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.
2597	J. C. Pintor	Striver Drilling Co.	10-10-55	862	138	3	140	33	Sd.G	Pl	U	J	Sand and gravel overlain by 145 ft gravel. Ca., L.

37/3-3346	A. Major	Driller	Date	Time	Depth	Flow	Pressure	Notes	Remarks	Yield	Flow	Pressure	Notes	Remarks		
3381	K. Blitz	W. Rodgers	8-30-57	8:00 J	122	2	2	S; 3 1/2 ft, 10al, dia 1 1/2	102	115	102	115	102	115	JL-1/2	L. Sand and gravel overlain by 60 ft yellow clay mixed with gravel. See log well 3346. Ca, L.
3382	D. Sovlak	Drivier Drilling Co.	5-18-55	8:55 J	125	2 1/2	3	S; 3 ft, 60g, dia 1 1/2	100	100	100	100	100	100	JL-1/2	See log well 3346. Ca, L.
3383	J. W. Wallick	do	11-4-57	8:55 J	180	3	S; 3 ft, 60g, dia 2	97	97	97	97	97	97	S	See log well 3346. Ca, L.	
3384	A. Wendol	Layne-Northern Co., Inc.	5-18-47	8:00 J	122	8	S; 10 1/2 ft, 15al, dia 1 1/2	108	108	108	108	108	108	S	See log well 3346. Ca, L.	
3385	Truth Publishing Co.	do	12-9-57	8:74 Dr	132	8	S; 10 1/2 ft, 15al, dia 1 1/2	108	108	108	108	108	108	S	See log well 3346. Ca, L.	
3386	W. K. Franco	Drivier Drilling Co.	8-19-55	8:55 J	132	3	S; 3 ft, 60g, dia 1 1/2	98	98	98	98	98	98	D	Sand and gravel overlain by 48 ft brown clay. L. L.	
3387	L. Schwartz	do	8-19-55	8:75 J	118	3	S; 3 ft, 60g, dia 2	98	98	98	98	98	98	D	Sand and gravel overlain by 48 ft brown clay. L. L.	
3441	R. A. Frick	do	2-3-55	8:00 J	101	2	S; 3 ft, 60g, dia 1 1/2	82	82	82	82	82	82	D,S	Rod sand and gravel overlain by 50 ft blue clay; Ca. Gravel and sand overlain by 20 ft yellow clay; Ca.	
3481	W. Weiss	do	4-8-45	8:00 J	82	2	S; 3 ft, 60g, dia 1 1/2	82	82	82	82	82	82	D,S	For fire protection; coarse gravel overlain by 30 ft blue clay. Ca, L.	
3481	R. Kline	do	11-15-51	8:00 J	113	2	S; 3 1/2 ft, 10al, dia 1 1/2	82	82	82	82	82	82	L	For fire protection; coarse gravel overlain by 30 ft blue clay. Ca, L.	
3521	C. Rodgers	do	9-18-51	8:00 J	95	2 1/2	S; 3 ft, 60g, dia 1 1/2	76	76	76	76	76	76	J1	For fire protection; coarse gravel overlain by 30 ft blue clay. Ca, L.	
3522	E. Castello	do	3-7-53	8:50 J	100	3	S; 3 ft, 60g, dia 2	82	82	82	82	82	82	J3/4	For fire protection; coarse gravel overlain by 30 ft blue clay. Ca, L.	
3523	Truines Penn Township	do	8-29-57	8:55 Dr	90	4	S; 10ft, 10al	64	64	64	64	64	64	---	For fire protection; coarse gravel overlain by 30 ft blue clay. Ca, L.	
3581	M. Hurbut	do	2-26-53	8:50 J	91	2	S; 3 ft, 60g, dia 1 1/2	70	70	70	70	70	70	---	Gravel overlain by 60 ft yellow and blue clay; Ca. Ca, L.	
3582	C. Van Ooteghem	do	2-26-53	8:50 J	91	2	S; 3 1/2 ft, 10al, dia 1 1/2	73	73	73	73	73	73	---	Gravel overlain by 60 ft yellow and blue clay; Ca. Ca, L.	
3621	L. E. Duchatolot	do	8-50	8:40 J	108	2	S; 3 1/2 ft, 60g, dia 1 1/2	71	71	71	71	71	71	---	Gravel overlain by 60 ft yellow and blue clay; Ca. Ca, L.	
37/4-41	Buck's Shell Station	do	3-18-49	7:58 Dr	34	2	S	---	---	---	---	---	---	---	Ca.	
412	Night Fall Motel	do	1-9-53	7:48 Dr	58	4	S; 8ft, 10al	26	26	26	26	26	26	---	Yellow sand and gravel overlain by 18 ft yellow sand. Sand and gravel from 0-49 ft.	
421	N. Gaugler	do	1-9-53	7:52 J	49	2	S; 3 1/2 ft, 60g, dia 1 1/2	33	33	33	33	33	33	---	Yellow sand and gravel overlain by 18 ft yellow sand. Sand and gravel from 0-49 ft.	
482	F. Gaugler	do	4-23-49	7:52 J	48	2	S; 3 ft, 60g, dia 1 1/2	32	32	32	32	32	32	---	Yellow sand and gravel overlain by 18 ft yellow sand. Sand and gravel from 0-49 ft.	
481	T. Miller	do	10-3-50	7:52 J	57	3	S; 3 ft, 60g, dia 2	22	22	22	22	22	22	J	Sand and gravel from 0-45 ft. Sand and gravel from 0-57 ft. Sand and gravel from 0-40 ft.	
521	C. Fisher	do	7-20-56	7:48 J	40	2	S; 3 1/2 ft, 10al, dia 1 1/2	22	22	22	22	22	22	J	Sand and gravel from 0-45 ft. Sand and gravel from 0-57 ft. Sand and gravel from 0-40 ft.	
541	W. Horn	do	12-28-53	7:52 J	40	2	S; 3 1/2 ft, 60g, dia 1 1/2	25	25	25	25	25	25	---	Do.	
681	J. Balog	Barrett and Kama	7-15-59	7:54 J	25	2	S; 4ft, 10al, dia 1	---	---	---	---	---	---	---	Yield 10 gpm; Ca, L.	
631	Vielnyck Nursery	Drivier Drilling Co.	3-10-55	7:48 J	91	2	S; 4ft, 10al, dia 1	---	---	---	---	---	---	---	Yield 90 gpm; sand and gravel from 0-48 ft; Ca.	
632	do	do	3-3-55	7:48 Dr	48	4	S; 10ft, 10al	24	24	24	24	24	24	J5	Yield 10 gpm; Ca, L.	
741	M. Heeter	do	10-15-48	7:48 J	42	2	S; 3ft, 60g, dia 1 1/2	34	34	34	34	34	34	---	Yield 10 gpm; Ca, L.	
742	R. C. Riffol	do	8-7-54	7:47 J	59	2	do	42	42	42	42	42	42	---	Yield 90 gpm; sand and gravel from 0-48 ft; Ca.	
743	O. Ulck	do	6-7-54	7:47 J	67	2	do	48	48	48	48	48	48	---	Yield 10 gpm; Ca, L.	
744	W. J. Culp	do	1954	7:47 J	64	2	S; 3 1/2 ft, 60g, dia 1 1/2	20	20	20	20	20	20	J1/3	Yield 10 gpm; Ca, L.	
781	Trustees, Penn Township	Layne-Northern Co., Inc.	2-24-56	7:47 Dr	152	5	---	---	---	---	---	---	---	---	Do.	
782	do	do	11-30-57	7:46 Dr	152	26-12	Gp; S; 30ft, 80al, dia 1 1/2	---	---	---	---	---	---	---	Do.	
783	F. A. Liggell	Drivier Drilling Co.	1-28-54	7:47 J	44	2	S; 3ft, 60g, dia 1 1/2	28	28	28	28	28	28	J1/2	Yield 10 gpm; Ca, L.	
784	Rockwell Spring and Art Co.	Layne-Northern Co., Inc.	11-7-57	7:48 Dr	154	28	S; 25ft, 80al, dia 1 1/2	---	---	---	---	---	---	---	Do.	
785	do	do	10-4-57	7:48 Dr	149	8	S; 10ft, dia 6	139	139	139	139	139	139	---	Do.	
786	W. L. Davis	Drivier Drilling Co.	11-4-55	7:48 J	40	2	S; 4ft, 60g, dia 1 1/2	---	---	---	---	---	---	---	Do.	
787	Rockwell Spring and Art Co.	Layne-Northern Co., Inc.	2-24-56	7:49 Dr	153	26	Gp; S; 25ft, 105al, dia 1 1/2	99	99	99	99	99	99	---	Do.	
788	C. Barchardt	Drivier Drilling Co.	8-20-49	7:46 J	44	2	S; 3ft, 60g, dia 1 1/2	40	40	40	40	40	40	---	Do.	
789	J. Mellister	do	12-4-56	7:42 J	83	2	S; 3 1/2 ft, 60g, dia 1 1/2	55	55	55	55	55	55	---	Do.	
790	C. B. Addington	do	11-9-56	7:42 J	76	2	S; 3 1/2 ft, 10al, dia 1 1/2	---	---	---	---	---	---	---	Do.	
791	Wayne Heating Co.	do	6-18-56	7:00 J	40	2	S; 3 1/2 ft, 60g, dia 1 1/2	13	13	13	13	13	13	J	Do.	

Table 2.--Records of wells and test holes in St. Joseph 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				
374-	R. Fisher	Srivor Drilling Co.	1-10-58	740 J	81	2	S; 3 1/2 ft., 60g. dia	73	6	Sd	Pl	C	29	D	J1/2	L.	
821	W. Rogers	-----do-----	-----	722 J	40	2	S; 3 ft., 60g. dia 1 1/2	30	10	Sd	Pl	C	---	D	J	See log well BR2; Ca.	
822	P. Duardorff	-----do-----	Fall 1935	722 J	44	2	-----do-----	54	10	Sd	Pl	C	24	D	J1/2	Ca, L.	
9A1	J. Wright	-----do-----	10-12-58	750 J	74	3	S; 5 ft., 80g. dia 2	60	14	Sd	Pl	C	48	D	J	Ca, L.	
9C1	J. L. Boissel	-----do-----	7-10-51	748 J	45	2	S; 3 1/2 ft., 80g. dia	31	14	Sd, G	Pl	U	31	D	J1/2	Sand and gravel from 0-45 ft.	
9C2	C. Hood, Jr.	-----do-----	4-17-50	724 J	39	2	S; 3 ft., 60g. dia 1 1/2	16	23	Sd, G	Pl	U	16	D	---	Sand and gravel from 0-39 ft.	
9D1	Chapel Hill Development Co.	Indiana-Michigan Water Development Co.	5-26-50	750 Dr	100	10	S; 15 ft., 40gal. dia	30	70	Sd, G	Pl	U	30	P, Jr	T10	Da 50 ft pumping 150 gpm; Ca, L.	
9C1	F. Kocly	Srivor Drilling Co.	6-16-51	731 J	27	2	S; 3 1/2 ft., 80g. dia	16	15	Sd, G	Pl	U	16	D	---	Fine sand overlain by 27 ft sand and gravel; clay at 32 ft.	
9E2	G. Clark	W. Rodgers	8-10-54	731 J	44	2	S; 3 ft., 60g. dia 1 1/2	40	4	Sd, G	Pl	C	18	D	J1	Yield 13 gpm; Ca, L.	
9A1	D. Quier	Srivor Drilling Co.	5-18-50	732 J	40	2	-----do-----	19	22	Sd, G	Pl	U	18	D	---	Sand and gravel from 0-40 ft.	
9B2	J. Dean	-----do-----	8-50	728 J	32	2	-----do-----	---	---	Sd, G	Pl	U	---	D	---	Sand and gravel from 0-32 ft. clay at 32 ft.	
9P1	A. Kartog	-----do-----	1-27-51	725 J	45	2	-----do-----	40	5	Sd	Pl	C	8	D	---	Sand overlain by 40 ft clay.	
9Q1	F. Dishop	-----do-----	12-15-54	727 J	65	2	S; 3 ft., 10gal. dia	58	7	Sd, G	Pl	C	8	D	J1/2	Yield 10 gpm; L.	
9Q2	W. K. Nicholson	Srivor Drilling Co.	11-7-50	728 J	42	2	S; 3 ft., 60g. dia 1 1/2	22	18	Sd, G	Pl	U	22	D	---	Sand and gravel from 0-40 ft.	
16C1	G. Bensing	-----do-----	11-30-48	726 J	42	2	S; 5 ft., 80g. dia 1 1/2	---	---	Sd, G	Pl	U	16	D	---	Sand and gravel from 0-32 ft.	
16C2	F. B. Wiso	-----do-----	8-50	726 J	52	2	S; 3 ft., 60g. dia 1 1/2	45	7	Sd, G	Pl	C	15	D	---	Sand and gravel from 0-32 ft.	
16D1	R. Weissweaver	-----do-----	10-17-51	737 J	74	2	S; 3 1/2 ft., 80g. dia 1	---	---	Sd, G	Pl	---	15	D	---	Sand overlain by 40 ft clay.	
16E1	F. Millor	-----do-----	Fall 1952	741 J	37	2	S; 3 1/2 ft., 10gal. dia	21	15	Sd, G	Pl	U	21	D	---	Yield 10 gpm; L.	
16E2	H. Brown	-----do-----	2-5-54	741 J	68	2	S; 3 ft., 60g. dia 1 1/2	43	23	Sd, G	Pl	C	22	D	---	Sand and gravel from 0-30 ft.	
16P1	G. Morgan	-----do-----	7-28-51	747 Dr	30	2	S; 3 ft., 60g. dia 2	13	17	Sd, G	Pl	U	13	D	J1/3	Da 5 ft pumping 78 gpm; at the Moran School; Ca, L.	
17A1	Town of Osceola	Indiana-Michigan Water Development Co.	8-3-50	737 Dr	114	6	S; 12 ft., 25gal. dia	72	42	Sd, G	Pl	C	14	P	T5	Da less than 12 ft pumping 95 gpm; L.	
17A2	R. Ingraham	-----do-----	7-54	738 Dr	81	8	S; 6 ft., 30gal. dia	---	---	Sd	Pl	---	21	D	J1/4	Ca, L.	
17B1	C. LaCluyse	Srivor Drilling Co.	10-8-55	734 J	57	2	S; 3 1/2 ft., 10gal. dia	32	25	Sd	Pl	C	13	D	---	Bedrock at 143 ft; L.	
17C1	Town of Osceola	Layno-Northern Co., Inc.	12-22-58	732 Dr	145	8 1/2	-----do-----	---	---	Sd, G	Pl	---	---	T	---	L.	
17F1	C. Krahulec	Srivor Drilling Co.	9-20-51	733 J	50	2	S; 3 1/2 ft., 60g. dia	---	---	Sd	Pl	---	---	D	---	Ca, L.	
17H1	W. H. Drown	-----do-----	1952	727 J	57	3	S; 5 ft., 60g. dia 2	---	---	Sd	Pl	---	15	P	J	Ca, L.	
18D1	City of Mishawaka	Layno-Northern Co., Srivor Drilling Co.	3-18-55	728 Dr	143	---	-----do-----	---	---	G, Sd	Pl	---	15	T	---	Ca, L.	
19A1	C. Kainak	-----do-----	1-23-54	742 J	51	2	S; 3 1/2 ft., 10gal. dia	---	---	Sd, G	Pl	---	11	D	J1/3	Ca, L.	
21P1	Mr. Williamson	-----do-----	1-56	732 J	64	2	S; 3 1/2 ft., 60g. dia	---	---	Sd, G	Pl	---	14	D	---	Ca, L.	
28L1	J. Monnaugh	-----do-----	1-24-58	756 J	65	2	-----do-----	54	11	Sd	Pl	C	17	D	---	L.	
29J1	L. Frick	Woods and Keol Well Drilling Co.	12-4-59	772 J	44	2	-----do-----	13	31	Sd	Pl	U	13	D	---	Yield 6 gpm; L.	
30K1	V. Rowley	Srivor Drilling Co.	6-50	708 J	39	2	-----do-----	17	22	Sd, G	Pl	U	17	D, S	---	Sand and gravel from 0-38 ft; Ca.	
31M1	H. Ort	-----do-----	5-5-49	805 J	83	2	-----do-----	---	---	Sd	Pl	---	73	D, S	L	Ca.	

Well ID	Owner	Company	Date	Depth (ft)	Diameter (in)	Flow Rate (gpm)	Pressure (psi)	Notes
37/4-33R1	L. Eby	Sliver Drilling Co.	7-8-59	70	2	64	805 J	S: 3ft, 60g, dia 1 1/2
38/1W-10J1	O. Proud	Hunt Hooster Hardware	12-28-55	100	2	92	755 J	S: 4ft, 60g, dia 1 1/2
14R1	L. Deubois	Raymond Concrete Pile Co.	4-24-54	25	2	---	700 B	S: 4ft, 60g, dia 1 1/2
14R2	do	do	4-24-54	25	2	---	700 B	S: 4ft, 60g, dia 1 1/2
14R3	do	do	4-24-54	25	2	---	700 B	S: 4ft, 60g, dia 1 1/2
14R4	do	do	4-24-54	25	2	---	700 B	S: 4ft, 60g, dia 1 1/2
14R5	do	do	4-24-54	25	2	---	700 B	S: 4ft, 60g, dia 1 1/2
14R1	do	do	4-14-54	35	---	---	805 B	S: 4ft, 60g, dia 1 1/2
14M2	do	do	4-15-54	35	---	---	804 B	S: 4ft, 60g, dia 1 1/2
14M3	do	do	4-16-54	40	---	---	807 B	S: 4ft, 60g, dia 1 1/2
14N1	do	do	4-18-54	60	---	---	797 B	S: 4ft, 60g, dia 1 1/2
15E1	R. Copponour	Barrett and Kama	7-1-49	65	2	55	800 J	S: 4ft, 100g, dia 1 1/2
15J1	O. Proud	Hunt Hooster Hardware	7-7-53	66	2	70	805 J	S: 60g
15J2	Indiana Toll Road Commission	Raymond Concrete Pile Co.	4-14-54	35	---	---	804 B	S: 4ft, 60g, dia 1 1/2
15J3	do	do	4-14-54	35	---	---	804 B	S: 4ft, 60g, dia 1 1/2
15J4	do	do	4-15-54	35	---	---	800 B	S: 4ft, 60g, dia 1 1/2
15J5	do	do	4-15-54	20	---	---	798 B	S: 4ft, 60g, dia 1 1/2
15K1	R. Coffman	Sliver Drilling Co.	2-18-54	105	3	68	804 J	S: 7ft, dia 2
15K1	Indiana Toll Road Commission	Raymond Concrete Pile Co.	4-13-54	45	---	---	811 B	S: 7ft, dia 2
15M2	do	do	4-14-54	35	---	---	814 B	S: 7ft, dia 2
15R1	do	do	4-15-54	35	---	---	798 B	S: 7ft, dia 2
15R2	do	do	4-15-54	31	---	---	801 B	S: 7ft, dia 2
22R1	Indiana and Michigan Electric Co.	Indiana-Michigan Water Development Co.	3-19-57	110	6	78	786 Dr	S: 10ft, dia 5 1/2
22R2	do	do	7-24-59	106	6	64	785 Dr	S: 10ft, dia 5 1/2
24E1	Raven Hubbard Memorial	do	---	86	4	---	793 Dr	S: 10ft, dia 5 1/2
24E2	do	do	---	86	6	---	793 Dr	S: 10ft, dia 5 1/2
34G1	Town of New Carlisle	Michlann Drilling Co.	4-7-52	192	12	161	820 Dr	S: 5
34M1	C. Ray	Hunt Hooster Hardware	6-1-57	65	2	50	815 J	S: 4ft, 60g, dia 1 1/2
35D1	Town of New Carlisle	Indiana-Michigan Water Development Co.	10-3-54	115	12	86	785 Dr	S: 20ft, 300g, dia 1 1/2
35D2	do	do	10-21-40	132	8	115	795 Dr	S: 10ft, 200g, dia 1 1/2
36D1	Indiana-Michigan Electric Co.	Layne-Northern Co., Inc.	11-28-57	05	6	48	792 Dr	S: 10ft, 150g, dia 1 1/2
36J1	C. Cole and Son	do	11-3-40	41	8	16	748 Dr	S: 3 1/2 ft, 60g, dia 1 1/2
38/1-7R1	Indiana Toll Road Commission	Raymond Concrete Pile Co.	4-28-54	48	---	---	737 B	S: 3 1/2 ft, 60g, dia 1 1/2
7R2	do	do	4-28-54	42	---	---	737 B	S: 3 1/2 ft, 60g, dia 1 1/2
8R1	do	do	4-29-54	40	---	---	738 B	S: 3 1/2 ft, 60g, dia 1 1/2
8R2	do	do	4-29-54	40	---	---	738 B	S: 3 1/2 ft, 60g, dia 1 1/2
8R3	do	do	4-30-54	40	---	---	738 B	S: 3 1/2 ft, 60g, dia 1 1/2
13L1	C. Reish	Layne-Northern Co., Inc.	3-8-50	110	12	76	796 Dr	S: 20ft
13P1	do	Sliver Drilling Co.	11-19-49	82	2	87	822 J	S: 3 1/2 ft, 60g, dia 1 1/2
13Q1	A. Lichtenberger	do	10-28-40	102	2	---	822 J	S: 3 1/2 ft, 60g, dia 1 1/2
13Q2	R. Lichtenberger	do	10-28-40	72	2	53	805 J	S: 3 1/2 ft, 60g, dia 1 1/2
15E1	Indiana Toll Road Commission	Raymond Concrete Pile Co.	5-5-54	35	---	---	738 B	S: 3 1/2 ft, 60g, dia 1 1/2
15E2	do	do	5-6-54	30	---	---	738 B	S: 3 1/2 ft, 60g, dia 1 1/2
15E3	do	do	---	20	---	---	790 B	S: 3 1/2 ft, 60g, dia 1 1/2
15K1	do	do	---	18	---	---	796 B	S: 3 1/2 ft, 60g, dia 1 1/2

Ca. L.
Ca. L.
Yield 13 gpm; L.
See log well 14R3.
Do.
See log well 14R3.
Do.
No water reported; see log well 14M2.
L.
L.
Yield 9 gpm; Ca. L.
Ca.
No water reported; see log well 15J3.
L.
See log well 15J3.
See log well 15J3.
Ca. L.
L.
L.
See log well 15M2.
See log well 15M2, screen, upper 5 ft 15 gal, lower 5 ft 25 gal; L.
Dd 6 ft pumping 100 gpm; screen, 15 gal and 25 gal; see log well 22R1; Ca.
Ca.
Dd 5 ft after 8 hr pumping 400 gpm; L.
Dd 10 ft pumping 360 gpm; L.
Dd 10 ft pumping 200 gpm; L.
Dd 12 ft after 8 hr pumping 100 gpm; Ca. L.
L.
See log well 7R1.
See log well 8R2.
L.
See log well 8R2.
Dd 25 ft pumping 500 gpm; L.
J1 Sand overline by 85 ft gravel and stone; Ca.
Ca.
L.
L.
See log well 15E1.
No water reported; see log well 15E1.
No water reported; fine sand overline by 2 ft silt and top well.

Table 2.--Record of wells and test holes in St. Joseph County, Indiana--Continued

Well	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone				Remarks				
									Depth to top (feet)	Thickness (feet)	Character	Geologic age		Conditions of occurrence	Water level (feet)	Use	Type of pump and horsepower
2871-1582	Indiana Toll Road Commission			794 B	B	22									L.		
1583	do			785 B	B	18									See log well 1582. No water reported; fine to coarse sand overlain by 4 ft silt and top soil.		
1581	do			775 B	B	18									L.		
16A1	do	Raymond Concrete Pile Co.	5-5-54	737 B	B	35				6	29	Sd	PI U	6	T		
16D1	do	do	4-26-54	734 B	B	50				5	45	Sd, G	PI U	5	T		
16D2	do	do	4-27-54	734 B	B	40				6	34	Sd, G	PI U	6	T		
16D3	do	do	4-27-54	733 B	B	25				4	31	Sd, G	PI U	4	T		
16H1	do	do	5-4-54	736 B	B	40				6	54	Sd, G	PI U	6	T		
17A1	do	do	4-26-54	735 B	B	30				4	28	Sd, G	PI U	4	T		
17A2	do	do	4-27-54	735 B	B	32				2	28	Sd, G	PI U	2	T		
23F1	J. Pickarek Indiana Toll Road Commission	Sliver Drilling Co.	5-29-51	773 J	J	110	2 1/2	S; 1 1/2 ft., 60g. dia 1 1/2				Sd	PI	44	D, S	No water reported; dark-brown gravel overlain by 8 ft dark-brown clayey sand and top soil.	
23F2	do	do		783 B	B	25										L.	
23G1	do	Raymond Concrete Pile Co.	4-19-54	777 D	D	35				30	5	Sd	PI U	30	T	No water reported; see log well 23G1.	
23G2	do	do	4-20-54	775 B	B	30										T	No water reported; see log well 23G1.
23G3	do	do	4-20-54	772 B	B	35				32	3	Sd, G	PI U	32	T	See log well 23G4.	
23G4	do	do	4-22-54	773 D	D	55										T	No water reported; L.
23G5	do	do	1-19-54	772 B	B	26										T	See log well 23G1.
23H1	E. Porter	Sliver Drilling Co.	12-8-54	800 J	J	81	3	S; 1 ft., 60g. dia 2		54	27	Sd, G	PI U	54	D	Sand and gravel overlain by 21 ft. brown clay; Ca.	
24E1	Indiana Toll Road Commission	Raymond Concrete Pile Co.	4-23-54	794 B	B	95										T	No water reported; L.
24E2	do	do	4-23-54	794 B	B	40				30	10	Sd, G	PI U	30	T	L.	
24E3	do	do	4-21-54	793 B	B	40				30	10	Sd, G	PI U	30	T	See log well 24E2.	
24E4	do	do	4-22-54	792 B	B	40				22	18	Sd, G	PI U	22	T	Do.	
24E5	do	do	4-22-54	794 B	B	38										T	Do.
25L1	J. C. Smith	Sliver Drilling Co.	3-7-47	762 J	J	86	2	S; 3 ft., 60g. dia 1 1/2				Sd, G	PI	42	D	Sand and gravel overlain by 80 ft. blue clay with few thin layers of sand; Ca.	
25L2	L. Peggli	do	8-9-51	755 J	J	88	3	S; 5 ft., 60g. dia 2		80	8	Sd, G	PI C	46	D	Sand and gravel from 0-65 ft; Ca.	
26J1	G. W. Rough	do	12-27-46	787 J	J	65	2	S; 3 ft., 60g. dia 1 1/2		50	15	Sd, G	PI U	50	D	Sand and gravel from 0-65 ft; Ca.	
26J2	H. M. Shaw	do		787 J	J	59	2	S; 3 ft., 60g. dia 1 1/2		44	15	Sd	PI U	44	D	Yellow sand overlain by 32 ft. yellow stony gravel; Ca.	
26K1	W. F. Gummel	do	7-31-54	757 J	J	64	2	S; 2 1/2 ft., 60g. dia 1 1/2		35	29	Sd, G	PI U	35	D	Sand and gravel from 0-64 ft.	
26K2	J. Podemski	do	9-29-51	772 J	J	60	2	S; 2 1/2 ft., 60g. dia 1 1/2		44	16	Sd, G	PI U	44	D	Yellow sand and gravel with stones from 0-80 ft.	
26K3	W. Millekin	do	7-10-54	787 J	J	76	2	S; 3 ft., 60g. dia 1 1/2		61	15	Sd, G	PI U	61	D	Ca. l.	
26L1	J. Dorcus	Hunts Hoester Hardware	10-1-59	785 J	J	68	2	S; 3 ft., 60g. dia 1 1/2		63	5	Sd	PI C	50	D	L.	
26P1	G. D. Frye	Sliver Drilling Co.	5-22-47	771 J	J	82	2	S; 3 ft., 60g. dia 1 1/2		44	22	Sd, G	PI U	44	D	Sand and gravel from 0-66 ft.	
26P2	H. Hatis	do	8-9-47	765 J	J	66	2	do		44	22	Sd, G	PI U	44	D		
26Q1	J. Singletary	do	8-6-50	782 J	J	80	2	do		60	22	Sd	PI	60	D		

38/1-3101	J. Halonsy	Hunts Hoosier Hardware	747 J	31	2	8; 3 1/2 ft., 80g, dia 1 1/2	---	Sd, G	P1	12 D	---	Yield 13 gpm; sand and gravel overlain by 18 ft sand and clay; Ca.
3181	C. Colo and Son	Layne-Northorn Co., Inc.	743 Dr	86	16	8	4	Sd, G	P1 U	4 Jr	---	Sand and gravel overlain by 2 ft top soil.
3381	New York Control System	---	722 Dr	48	12	8; 16 ft., 16x1	5	Sd, G	P1 U	5 N	---	Dd 1.8 ft pumping 400 gpm.
3382	---	---	722 Dr	38	12	8; 16 ft	5	Sd, G	P1 U	5 O	---	Dd 7.5 ft pumping 420 gpm; Observation well St. Joseph 20; water level measured 5.19 ft below lnd, 8-21-58; see log well JSRI.
3371	K. Do Vang	Srifer Drilling Co.	728 J	44	2	8; 3 ft., 80g, dia 1 1/2	---	Sd	P1	28 D	---	L.
3371	F. Yando Zando	---	737 J	57	2	---	35	G, Sd	P1 C	28 D	---	L.
3372	R. R. Fricfor	---	742 J	64	2	---	22	Sd, G	P1 C	20 D	---	L.
3371	C. Michalski	---	723 J	45	2	---	---	Sd	P1	---	---	Sand overlain by 38 ft quick-sand and clay.
3582	F. Mark	---	742 J	54	2	8; 5 ft., 80g, dia 1 1/2	---	Sd	P1	20 D	---	Ca.
3581	J. Romano	---	757 J	54	2	8; 3 ft., 80g, dia 1 1/2	---	Sd	P1	38 D	---	Dd 15 ft pumping 50 gpm; well SJ 37 (RS, 1948); Ca, L.
3881	City Bureau Development Co.	Indiana-Michigan Water Development Co.	782 Dr	72	6	5; 10 ft., 30x1, dia 5 1/2	60	Sd, G	P1 C	35 P	---	Dd 16 ft pumping 40 gpm; L.
3882	---	---	745 Dr	82	6	8; 10 ft., 20x1, dia 5 1/2	---	Sd, G	P1	29 P	---	---
38/2- 711	C. L. Ehninger	Srifer Drilling Co.	802 J	87	2	8; 3 ft., 80g, dia 1 1/2	50	Sd, G	P1 U	50	---	Sand and gravel from 0-67 ft; Ca.
681	J. Sluss	---	800 J	80	2	8; 3 1/2 ft., 60g, dia 1 1/2	---	Sd, G	P1	54 D	---	J1
891	F. Szuch	Srifer Drilling Co.	787 J	71	2	8; 3 ft., 80g, dia 1 1/2	48	Sd, G	P1 U	48 D	---	Sand and gravel from 0-71 ft. Ca, L.
892	O. Sany, Dunn	---	800 J	64	2	---	32	Sd, G	P1 U	52 D	---	Ca, L.
891	R. Volte	---	787 J	74	2	---	55	Sd, G	P1 U	55	---	J1/2
1181	A. Ladd	---	896 J	48	2	8; 3 1/2 ft., 80g, dia 1 1/2	33	Sd, G	P1 U	33 D	---	J3/4
1271	E. Day	---	743 J	59	2	8; 3 ft., 80g, dia 1 1/2	40	Sd, G	P1 U	40 D	---	Sand and gravel from 0-59 ft.
1281	Wagonroad Park Water Co.	Indiana-Michigan Water Development Co.	738 Dr	77	6	8; 15 ft	---	Sd, G	P1 U	---	---	Dd 15 ft pumping 150 gpm; screen, upper 3 ft 46 in, lower 12 ft, 16 in; see log well 1282.
1282	---	---	738 Dr	85	10	8; 15 ft., 20x1, dia 1 1/2	22	Sd, G	P1 U	22 P	---	Dd 27.5 ft after 24 hr pumping 350 gpm; L.
1281	Mr. Stang	Srifer Drilling Co.	729 J	42	2	8; 3 ft., 80g, dia 1 1/2	25	Sd, G	P1 U	25 D	---	Sand and gravel from 0-42 ft.
1282	A. L. Kovacska	---	724 J	44	2	8; 3 1/2 ft., 80g, dia 1 1/2	23	Sd, G	P1 U	23 D	---	Sand and gravel from 0-44 ft.
1283	C. Adams	---	720 J	45	2	8; 3 ft., 80g, dia 1 1/2	22	Sd, G	P1 U	22 D	---	Yellow sand and gravel from 0-45 ft. Ca, L.
1371	Truette, Clay Township	---	732 Dr	142	4	8; 8 ft., 80g, dia 2 1/2	---	Sd, G	P1	35 P	---	---
1372	H. Van Riesen	Indiana-Michigan Water Development Co.	732 Dr	60	6	8; 5 1/2 ft., 15x1, dia 1 1/2	26	G, Sd	P1 U	26 D	---	Dd 6 ft pumping 38 gpm; L.
1381	J. V. Kacurab	Srifer Drilling Co.	727 J	51	2	8; 3 1/2 ft., 80g, dia 1 1/2	9	Sd, G	P1 U	9 D	---	Sand and gravel from 0-51 ft.
1381	R. C. Huss	---	734 J	58	2	8; 4 1/2 ft., 60g, dia 1 1/2	32	Sd, G	P1 U	32 D	---	Sand and gravel from 0-58 ft.
1382	J. Dumlug	---	734 J	51	3	8; 4 ft., 60g, dia 2	22	Sd, G	P1 U	22 D	---	Sand and gravel from 0-51 ft.
1383	A. Wess, Jr.	---	734 J	54	2	8; 3 1/2 ft., 80g, dia 1 1/2	30	Sd, G	P1 U	30 D	---	Sand and gravel from 0-54 ft.
1384	D. A. Scott	---	734 J	58	2	8; 3 ft., 80g, dia 1 1/2	---	Sd, G	P1	28 D	---	Sand from 0-44 ft.
1391	F. Vaughn	R. Reddish	723 J	37	2	---	---	Sd	P1 U	20 D	---	---
1392	F. Nojman	---	725 J	44	2	8; 3 1/2 ft., 80g, dia 1 1/2	20	Sd	P1 U	20 D	---	---
1393	M. Hileman	Srifer Drilling Co.	732 J	60	3	8; 5 ft., 60g, dia 2	28	Sd, G	P1 U	28 D	---	Blue sand and gravel overlain by 50 ft yellow sand and gravel; Ca.
1391	L. Mitchell	---	726 J	40	2	8; 3 1/2 ft., 60g, dia 1 1/2	15	Sd	P1 U	15 D	---	Sand from 0-46 ft.
1392	D. Peitke	Indiana-Michigan Water Development Co.	690 Dr	40	2	8; 3 ft., 80g, dia 1 1/2	14	Sd, G	P1 U	14 D	---	Sand and gravel from 0-40 ft. Ca, L.
1411	J. W. Toyne	---	690 Dr	41	4	8; 6 ft., 80g, dia 2 1/2	21	G, Sd	P1 C	15 D	---	---

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

Well	Owner	Driller	Date completed	Altitude (feet)	Type of well	Depth of well below land surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone				Use	Type of pump and horsepower	Remarks	
									Depth to top (feet)	Thickness (feet)	Character	Geologic age				Conditions of occurrence
1481	M. E. Winstend	Srivor Drilling Co.	6-30-48	701 J	J	112	2	S; 3ft, 60g, dia 1 1/2	25	18	Sd, G	Pl	V	---	Jl	L. Sand and gravel from 0-43 ft;
1482	-----do-----	-----do-----	4-17-54	701 J	J	43	2	S; 4 1/2 ft, 7al, dia 1 1/2	26	14	Sd, G	Pl	V	---	---	Ca. Sand and gravel from 0-40 ft.
1481	J. C. Bayman	-----do-----	7-17-54	711 J	Dr	40	2	S; 3ft, 60g, dia 1 1/2	42	20	Sd	Pl	C	---	Jl	Ch, L.
1511	A. Klupa	-----do-----	11-8-46	716 Dr	Dr	80	4	S; 60g, dia 2 1/2	70	16	Sd, G	Pl	V	---	---	Ch, L.
1512	W. Heider	-----do-----	10-27-57	723 J	J	62	2	S; 3 1/2 ft, 60g, dia 1 1/2	50	17	Sd	Pl	C	---	---	See log well 1682.
15M1	E. Stillson	-----do-----	8-17-48	812 J	J	86	2	S; 3ft, 60g, dia 1 1/2	65	39	Sd, G	Pl	C	---	---	Dr less than 15 ft pumping
15M1	F. C. Dawson	-----do-----	-----	788 J	J	135	2	S; 3 1/2 ft, 60g, dia 1 1/2	67	22	Sd, G	Pl	V	---	---	15 gal, lower 3 ft 30 gal;
1681	E. Boiregson	R. Reddish	6-11-57	701 J	J	67	2	-----do-----	67	22	Sd, G	Pl	V	---	---	Ca, L.
1682	F. Schuettl	Indiana-Michigan Water Development Co.	2-23-48	785 Dr	Dr	104	6	S; 10ft, dia 5 1/2	67	22	Sd, G	Pl	V	---	---	Sand and gravel from 0-89 ft.
16R1	W. Lawrence	Srivor Drilling Co.	7-11-55	787 J	J	89	2 1/2	S; 5ft, 60g, dia 1 1/2	10	30	Sd, G	Pl	V	---	---	L.
19F1	Indiana Toll Road Commission	Raymond Concrete Pile Co.	4-24-54	804 B	B	40	---	-----	8	27	Sd, G	Pl	---	---	---	See log well 19F1.
19F2	-----do-----	-----do-----	4-26-54	804 B	B	35	---	-----	20	6	Sd, G	Pl	---	---	---	No water reported; see log 19F1.
19F3	-----do-----	-----do-----	4-28-54	804 B	B	35	---	-----	---	---	Sd, G	Pl	---	---	---	No water reported; see log 19F1.
19F4	-----do-----	-----do-----	4-27-54	804 B	B	35	---	-----	---	---	Sd, G	Pl	---	---	---	See log well 19F1.
19F5	-----do-----	-----do-----	4-27-54	804 B	B	35	---	-----	---	---	Sd, G	Pl	---	---	---	See log well 19F1.
19P1	Trustees, German Township	Indiana-Michigan Water Development Co.	10-15-57	815 Dr	Dr	180	8	S; 10ft, 20al, dia 1 1/2	85	75	Sd, G	Pl	V	---	SS	Dr 5 ft after 8 hr pumping 130 gpm; Ca, L.
19Q1	P. Matiens	Srivor Drilling Co.	2-8-55	792 J	J	94	2	S; 3ft, 10al, dia 1 1/2	72	22	Sd, G	Pl	V	---	L	Sand and gravel from 0-94 ft;
20L1	Indiana Toll Road Commission	Layne-Northon Co., Inc.	5-6-55	812 Dr	Dr	130	8	S; 10ft, dia 6	114	16	Sd	Pl	C	---	---	Dr 20 ft after 8 hr pumping 150 gpm; L.
22J1	Z. D. Ray	Srivor Drilling Co.	8-6-47	719 J	J	64	2	S; 3ft, 60g, dia 1 1/2	88	6	G	Pl	---	---	---	Ca, L.
22K1	C. W. Miller	-----do-----	8-50	753 J	J	94	2	-----do-----	60	20	Sd	Pl	C	---	---	Vield 11 gpm; Ca, L.
22K2	W. Morehouse	Woods and Koop Well Drilling Co.	10-10-59	737 J	J	80	2	S; 3 1/2 ft, 60g, dia 1 1/2	---	---	Sd	Pl	C	---	---	---
22M1	A. Topash	Srivor Drilling Co.	9-6-55	776 J	J	100	2	S; 3 1/2 ft, 80g, dia 1 1/2	---	---	Sd	Pl	---	---	---	No water reported; see log well 22N2.
22N1	Indiana Toll Road Commission	Raymond Concrete Pile Co.	4-29-54	772 B	B	35	---	-----	---	---	---	---	---	---	---	No water reported; L.
22R2	-----do-----	-----do-----	4-27-54	773 B	B	35	---	-----	---	---	---	---	---	---	---	Dr less than 7 ft pumping 45 gpm; screen, 6 ft 10 al,
22P1	M. L. Nurwich	Indiana-Michigan Water Development Co.	3-23-48	766 Dr	Dr	65	6	S; 10ft, dia 5 1/2	45	23	Sd, G	Pl	U	---	---	2 ft 20 gal; L.
22P2	-----do-----	-----do-----	6-21-54	760 J	J	224	3	S; 10ft, 10al, dia 1 1/2	---	---	---	---	---	---	---	L.
22P3	-----do-----	Srivor Drilling Co.	7-16-54	760 Dr	Dr	68	4	S; 3ft, 60g, dia 1 1/2	48	20	Sd, G	Pl	U	---	---	Sand and gravel from 0-68 ft.
22P4	-----do-----	-----do-----	9-23-54	760 Dr	Dr	57	4	S; 3ft, 60g, dia 1 1/2	36	25	Sd, G	Pl	U	---	---	Sand and gravel from 0-61 ft.
22Q1	G. M. Murphy	-----do-----	4-23-47	739 J	J	81	2	S; 3ft, 60g, dia 1 1/2	---	---	Sd, G	Pl	---	---	---	---
22Q2	J. Toth	-----do-----	4-5-47	739 J	J	56	2	-----do-----	125	13	G, Sd	Pl	C	---	---	Dr 7 ft pumping 15 gpm; L.
22Q3	P. Rudabac	H. Crowie	5-47	728 Dr	Dr	139	4	S; 10ft, 80g, dia 1 1/2	---	---	Sd	Pl	---	---	---	---
22R1	B. Perkins	Srivor Drilling Co.	9-14-46	717 J	J	67	2	S; 3 1/2 ft, 60g, dia 1 1/2	---	---	Sd	Pl	---	---	---	Sand and stone from 0-56 ft.
22R2	C. Perkins	-----do-----	3-10-48	715 J	J	56	2	S; 3ft, 60g, dia 1 1/2	---	---	Sd	Pl	---	---	---	---
23B1	V. N. Fairchild	-----do-----	3-16-50	713 J	J	58	2	S; 3 1/2 ft, 60g, dia 1 1/2	23	33	Sd, G	Pl	U	---	---	---

36/2-23B2	A. Willson	11-21-54	698 J	41	2	S; 4 1/2 ft., 60g, dia 1 1/2	21	20	Sd	Pl U	21 D	-----	Yellow sand from 0-41 ft.
23D1	Mr. Moore	6- 8-54	702 J	62	2 1/2	S; 5 ft., 60g, dia 1 1/2	44	18	Sd, G	Pl U	44 D	-----	Sand and gravel overlain by 20 ft clay, Ca. See log well 23F3.
23F1	Nonlathwin Hospital	-----	698 Dr	68	8	S; 16 ft., 20g, dia 7/8	---	---	Sd, G	Pl	27 P	-----	Yield 200 gpm. Dd 12 ft pumping 160 gpm; screen, 2 ft 20 ml, 5 ft 60 g, 5 ft 30 g, well SJ 20-1 (KS, 1948); L. Well SJ 27-1 (KS, 1948); L.
23F2	-----	1922	698 Dr	65	---	S	35	32	Sd, G	Pl U	35 P	-----	Dd 8 ft after 8 hr pumping 500 gpm; 600 1/2 well 23F4; well SJ 27-2 (KS, 1948); L.
23F3	-----	7-10-38	698 Dr	67	8	S; 12 ft., dia 7/8	---	---	Sd, G	Pl U	35 P	-----	Yield 10 gpm. L.
23F4	-----	0-11-44	698 Dr	147	6	---	37	110	Sd, G	Pl C	23 T	-----	Sand and gravel from 0-44 ft.
23F5	-----	11-21-44	698 Dr	142	16	Gp; S; 20ft., 105ml, dia 9/8	37	105	Sd, G	Pl C	23 P	-----	Yellow sand overlain by 40 ft yellow sand and gravel. See log well 24B9.
23G1	W. R. Alward	8-28-50	698 J	40	2	S; 3 ft., 60g, dia 1 1/2	---	---	Sd, G	Pl C	22 D	-----	See log well 23G4.
23G2	M. O. Moore	10-20-46	700 Dr	53	4	S; 5 ft., 60g, dia 2 1/2	34	19	Sd	Pl C	24 D	-----	Sand and gravel from 0-50 ft.
23G3	E. Molnar	10-13-52	717 J	48	3	S; 5 ft., 60g, dia 2	40	8	Sd, G	Pl C	30 D	-----	---
23G4	P. Papandria	7-17-54	717 J	54	2	S; 3 ft., 60g, dia 1 1/2	40	14	Sd, G	Pl C	35 D	-----	---
23H1	A. Papandria	10- 8-47	718 J	50	2	S; 3 ft., 60g, dia 1 1/2	30	20	Sd, G	Pl U	30 D	-----	---
23K1	Isaac Walton	3-23-51	695 J	40	2	S; 3 ft., 60g, dia 1 1/2	---	---	Sd	Pl	4 D	-----	---
24B1	R. Loque	11- 8-49	731 J	44	2	S; 3 1/2 ft., 60g, dia 1 1/2	24	20	Sd, G	Pl U	24 D	-----	---
24B2	R. Gail	11-22-53	732 J	47	2	S; 3 ft., 60g, dia 1 1/2	18	29	Sd, G	Pl U	18 D	-----	---
24B3	R. Rose	11- 9-46	730 J	45	2	do	30	15	Sd	Pl C	16 D	-----	---
24B4	A. Somerfield	12-21-53	731 J	44	2	S; 4 ft., 60g, dia 1 1/2	35	9	Sd, G	Pl C	26 D	-----	---
24B5	V. Boney	1-25-53	732 J	48	2	do	40	6	Sd	Pl C	24 D	-----	---
24B6	W. Woolly	9-18-53	727 J	51	2	do	37	14	Sd	Pl C	26 D	-----	---
24B7	G. Snyder	2-14-56	730 J	54	2	S; 3 1/2 ft., 60g, dia 1 1/2	20	34	Sd, G	Pl U	20 D	-----	---
24B8	V. Bordan	10-25-56	725 J	44	2	S; 3 1/2 ft., 10ml, dia 1 1/2	38	6	Sd, G	Pl C	17 D	-----	---
24B9	W. Call	7-23-52	722 J	55	2	S; 3 1/2 ft., 60g, dia 1 1/2	35	20	Sd, G	Pl U	35 D	JJ/4	---
24C1	R. Beard	7-25-49	720 J	56	2	S; 3 ft., 60g, dia 1 1/2	38	18	Sd, G	Pl V	38 D	-----	---
24C2	E. Jefferson	8-28-47	729 J	56	2	do	38	20	Sd, G	Pl U	38 D	-----	---
24C3	B. M. Richey	3-22-54	714 J	42	2	do	25	17	Sd, G	Pl V	25 D	J	---
24D1	D. Snowden	5- 6-60	720 J	58	2	S; 3 1/2 ft., 60g, dia 1 1/2	27	31	Sd, G	Pl U	27 D	-----	---
24E1	F. Nickerson	4- 4-52	727 J	53	2	S; 3 1/2 ft., 10ml, dia 1 1/2	34	19	Sd, G	Pl U	34 D	-----	---
24F1	J. Blankenbaker	10-27-50	725 J	51	2	S; 3 ft., 60g, dia 1 1/2	32	19	Sd, G	Pl U	32 D	-----	---
24F2	Pearlrose Supply Co.	1-23-56	727 J	46	2	do	10	38	Sd, G	Pl U	10 D	-----	---
24F3	Robland Lumber Co.	9-24-47	727 J	51	2	do	30	21	Sd, G	Pl U	30 D	-----	---
24G1	Mr. Loughman	8- 7-51	725 J	57	2	S; 4 ft	---	---	Sd, G	Pl U	32 D	L	---
24G2	W. Ravener	11- 4-51	725 Dr	63	4	S; 10ft, 10ml	49	20	Sd, G	Pl C	8	-----	---
24G3	H. Powers	10-16-50	724 J	70	2	S; 3 1/2 ft., 60g, dia 1 1/2	80	10	Sd	Pl C	20 D	-----	---
24J1	J. Young	-----	727 J	53	2	S; 3 ft., 60g, dia 1 1/2	38	15	Sd, G	Pl U	38 D	-----	---
24K1	C. M. McHugh	-----	727 J	49	2	S; 3 1/2 ft., 60g, dia 1 1/2	40	10	Sd	Pl C	34 D	JJ/4	---
24L1	C. B. Bates	12-27-49	725 J	50	2	do	---	---	Sd	Pl C	34 D	-----	---
24L2	J. Osborne	-----	725 J	50	2	do	---	---	Sd	Pl C	34 D	-----	---
24L3	E. L. Niles	-----	725 J	50	2	do	---	---	Sd	Pl C	34 D	-----	---

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

Well	Owner	Driller	Date completed	Attitude (feet)	Type of well	Depth of well below land-surface (feet)	Diameter of well (inches)	Finish	Water-bearing zone				Type of pump and horsepower	Remarks		
									Depth to top (feet)	Thickness (feet)	Character	Geologic age			Conditions of occurrence	Water level (feet)
38/2-24L4	R. L. Gardner	Striver Drilling Co.	6-2-53	726 J	J	57	2	S; 3½ft, 10al, dia 1½	32	25	G	P1 U	U	32	D	Yellow gravel overlain by 16 ft yellow sand. Sand and gravel from 0-57 ft; Ca.
24L5	E. Hackley	-----do-----	6-23-54	727 J	J	57	2½	S; 3ft, 60g, dia 1½	31	28	Sd,G	P1 U	U	31	D	Yield 50 gpm; L.
24M1	Alou Tourist Hotel	-----do-----	6-1-57	722 J	J	60	3	S	50	10	Sd	P1 C	C	40	P	Yield 250 gpm; Ca, L.
24M2	A. Rosinski	Layne-Northern Co., Inc.	7-19-49	718 Dr	Dr	71	6	S; 10ft, 30al, dia 4	29	44	Sd,G	P1 U	U	29	P	Yellow sand and gravel from 0-30 ft; Ca.
24N1	Dr. Odell	Striver Drilling Co.	4-15-50	719 Dr	Dr	77	6	S; 10ft	54	23	Sd,G	P1 C	C	25	D	Sand and gravel from 0-88 ft; Ca.
24P1	A. H. Richards	-----do-----	-----	728 J	J	50	2	S; 3ft, 60g, dia 1½	34	18	Sd,G	P1 U	U	34	D	Yellow sand and gravel from 0-46 ft; Ca, L.
24P2	H. Kondor	-----do-----	1950	721 J	J	68	2	S; 3½ft, 60g, dia 1½	38	28	Sd,G	P1 U	U	38	D	Yellow sand and gravel from 0-46 ft; Ca, L.
24Q1	M. D. Bosers	-----do-----	1-24-57	730 J	J	46	2	-----do-----	22	24	Sd,G	P1 U	U	22	D	Do 10 ft pumping 200 gpm; Ca, L.
24Q2	Trustees, Clay Township	Layne-Northern Co., Inc.	4-23-51	731 Dr	Dr	70	8	S; 10ft	29	45	Sd,G	P1 U	U	29	P	See log well 25A1.
25A1	K. Buckles	Striver Drilling Co.	9-4-51	731 J	J	46	2	S; 3ft, 80g, dia 1½	40	14	Sd	P1 C	C	12	D	Follow sand and gravel 0-46 ft.
25A2	T. Braden	-----do-----	9-17-52	732 J	J	46	2	S; 3ft, 60g, dia 1½	21	25	Sd,G	P1 U	U	21	D	Yellow sand and gravel from 0-46 ft.
25A3	A. J. Herrmann	-----do-----	-----	732 J	J	46	2	S; 3ft, 10al, dia 1½	21	25	G, Sd	P1 U	U	21	D	Yellow sand and gravel from 0-47 ft.
25A4	E. Mellichar	-----do-----	7-14-52	730 J	J	46	2	S; 3ft, 10al, dia 1½	17	30	Sd,G	P1 U	U	17	D	Gravel overlain by 10 ft yellow sand.
25A5	J. Haney	-----do-----	3-10-55	732 J	J	47	2	S; 3ft, 80g, dia 1½	23	22	G	P1 U	U	23	D	Sand and gravel from 0-60 ft; follow sand overlain by 35 ft yellow sand and gravel; Ca.
25A6	J. White	-----do-----	3-24-55	730 J	J	45	3	S; 5ft, 60g, dia 2	24	38	Sd,G	P1 U	U	24	D	Sand and gravel from 0-40 ft.
25A7	J. Nasko	-----do-----	4-18-56	732 J	J	60	3	-----do-----	22	27	Sd,G	P1 U	U	22	D	See log well 25C3.
25A8	L. Grant	-----do-----	10-16-56	726 J	J	49	2	S; 5ft, 60g, dia 1½	18	15	Sd	P1 C	C	8	T	Do 24.5 ft pumping 50 gpm; used for lawn sprinkling; L.
25C1	V. V. Engle	-----do-----	5-20-51	715 J	J	40	2	S; 3ft, 60g, dia 1½	20	20	Sd,G	P1 U	U	20	P	See log well 25D5.
25C2	Indiana Toll Road Commission	Case Foundation Co.	5-10-54	707 B	B	44	---	-----do-----	15	29	Sd,G	P1 U	U	15	T	Do.
25C3	-----do-----	-----do-----	5-12-54	719 B	B	56	---	-----do-----	18	31	Sd,G	P1 C	C	18	T	Do.
25C4	-----do-----	-----do-----	6-10-54	722 B	B	40	---	-----do-----	20	20	Sd	P1 C	C	20	T	Do.
25C5	-----do-----	-----do-----	5-12-54	719 B	B	31	---	-----do-----	18	15	Sd	P1 C	C	8	T	Do.
25D1	J. D. Lang	Indiana-Michigan Water Development Co.	3-18-30	710 Dr	Dr	46	6	S; 8ft, 24al, dia 5½	20	26	Sd,G	P1 U	U	20	D	See log well 25D10.
25D2	Indiana Toll Road Commission	Case Foundation Co.	5-5-54	705 B	B	20	---	-----do-----	14	6	Sd,G	P1 U	U	14	T	White sand overlain by 42 ft yellow coarse gravel; Sand and gravel from 0-36 ft.
25D3	-----do-----	-----do-----	5-4-54	711 B	B	32	---	-----do-----	20	12	Sd,G	P1 U	U	20	T	Do.
25D4	-----do-----	-----do-----	5-6-54	714 B	B	30	---	-----do-----	27	3	Sd,G	P1 U	U	27	T	Do.
25D5	-----do-----	-----do-----	5-4-54	716 B	B	50	---	-----do-----	25	25	Sd,G	P1 U	U	25	T	Do.
25D6	-----do-----	-----do-----	4-20-54	713 B	B	30	---	-----do-----	22	8	Sd,G	P1 U	U	22	T	Do.
25D7	-----do-----	-----do-----	3-7-54	708 B	B	35	---	-----do-----	13	22	Sd,G	P1 U	U	13	T	Do.
25D8	-----do-----	-----do-----	4-6-54	706 B	B	30	---	-----do-----	14	16	Sd	P1 U	U	14	T	Do.
25D9	-----do-----	-----do-----	5-7-54	721 B	B	30	---	-----do-----	24	8	Sd	P1 U	U	24	T	Do.
25D10	-----do-----	-----do-----	5-11-54	721 B	B	54	---	-----do-----	35	25	Sd	P1 C	C	22	T	Do.
25E1	W. Herrath	Striver Drilling Co.	-----	725 J	J	48	2	S; 3ft, 60g, dia 1½	35	13	Sd,G	P1 U	U	35	D	Do.
25E2	-----do-----	-----do-----	-----	725 J	J	48	2	S; 3ft, 60g, dia 1½	21	35	Sd,G	P1 U	U	21	D	Do.
25E3	A. Fothergill	-----do-----	5-28-50	724 J	J	56	2	S; 3ft, 60g, dia 1½	21	35	Sd,G	P1 U	U	21	D	Do.

38/2-2581	B. Stachurski Moore Engineering, Inc., Variety Co. Stone	10-24-50 8-19-48	722 J 730 Dr	50 134	2 8	S; 3ft., 60g, dia 1 1/2 S; 10ft., 15al, dia 6 1/2	38 80	18 74	Sd, G Sd, G	Pl C Pl U	U C	38 41 N	D N	---	---	Sand and gravel from 0-56 ft. Dd 5 ft pumping 50 gpm; L.
2585	W. Rodgers	8-20-53	727 J	45	2	S; 3ft., 60g, dia 1 1/2	35	10	Sd, G	Pl U	U	35	P	---	---	Sand and gravel from 0-45 ft.
2581	A. White	---	720 J	48	2	S; 3ft., 60g, dia 1 1/2	21	23	G, Sd	Pl U	U	23	D	---	---	Gravel and sand from 0-46 ft.
2582	R. Lutz	12-30-54	727 J	62	3	S; 3ft., 60g, dia 2	37	25	Sd	Pl U	U	37	D	---	---	L.
2583	L. Rigen	7-31-47	727 J	44	2	S; 3ft., 60g, dia 1 1/2	28	15	Sd, G	Pl U	U	29	D	---	---	Sand and gravel from 0-44 ft.
2584	M. Stull	1-5-56	727 J	52	2	S; 3ft., 60g, dia 1 1/2	28	24	Sd, G	Pl U	U	28	D	---	---	Sand and gravel from 0-52 ft.
2585	J. Stull	4-21-54	724 J	40	2	S; 3ft., 60g, dia 1 1/2	25	15	Sd, G	Pl U	U	25	D	---	---	Sand and gravel from 0-44 ft.
2586	J. Menick	---	723 J	46	2	S; 3ft., 60g, dia 1 1/2	40	6	Sd	Pl C	C	14	D	---	---	L.
2581	L. Collip	12-21-50	716 J	48	2 1/2	S; 4ft., 60g, dia 1 1/2	---	---	Sd, G	Pl U	U	---	D	---	---	Sand and gravel from 0-40; underlain by 64 ft clay.
2582	Indiana Toll Road Commission	5-13-54	712 B	22	---	---	2	20	Sd	Pl U	U	2	T	---	---	L.
2583	H. F. Bushong	5-13-54	715 B	20	2	S; 3ft., 60g, dia 1 1/2	9	11	Sd	Pl ---	---	5	T	---	---	L.
2581	Indiana Toll Road Commission	5-17-54	722 B	37	---	---	9	28	G, Sd	Pl U	U	9	T	---	---	L.
2582	H. Brunetto	5-19-54	722 U	30	1 1/2	S; 3ft., 60g, dia 1 1/2	0	21	Sd, G	Pl U	U	9	T	---	---	See log well 2583. Sand overlain by 30 ft blue clay.
2581	P. Fodrozzi North Dams University	5-22-57	724 J	45	2	---	40	5	Sd	Pl C	C	25	D	---	---	See log well 2583. Dd 7 ft pumping 80 gpm; screen, upper 5 ft 12 al, lower 5 ft 30 al; L.
2581	Indiana Toll Road Commission	5-25-54	718 B	57	---	---	30	27	Sd, G	Pl U	U	30	T	---	---	L.
2582	---	5-25-54	717 B	30	---	---	29	1	Sd	Pl U	U	29	T	---	---	See log well 2581. Do.
2583	---	5-24-54	716 B	30	---	---	29	1	Sd	Pl U	U	29	T	---	---	Do.
2584	---	5-25-54	718 B	40	---	---	30	10	Sd	Pl U	U	30	T	---	---	Do.
2585	Layne-Northern Co., Inc.	3-31-55	710 Dr	88	6	S; 10ft., 30al	29	38	Sd, G	Pl U	U	29	P	---	---	Dd 2 ft after 8 hr pumping 55 gpm; Ca, L. See log well 2802.
2581	Caso Foundation Co.	6-10-54	682 B	30	---	---	4	26	Sd, G	Pl U	U	4	T	---	---	L.
2582	---	6-8-54	659 B	31	---	---	0	51	Sd, G	Pl U	U	0	T	---	---	L.
2583	---	6-10-54	684 B	50	---	---	---	---	Sd	Pl U	U	---	T	---	---	See log well 2804.
2584	---	6-11-54	653 B	50	---	---	---	---	Sd	Pl ---	---	---	T	---	---	L.
2585	---	6-11-54	689 B	30	---	---	5	25	Sd, G	Pl U	U	5	T	---	---	See log well 2802. See log well 2802.
2586	---	---	687 B	24	---	---	---	---	Sd, G	Pl ---	---	---	T	---	---	L.
2587	Raymond Concrete Pile Co.	5-1-54	682 B	25	---	---	4	21	Sd, G	Pl C	C	+1	T	---	---	See log well 2807. Dd 9 ft pumping 50 gpm; well Sj 19-1 (K9, 1948); L. See log well 2804.
2588	---	4-30-54	682 B	29	---	---	3	28	Sd, G	Pl C	C	+1	T	---	---	L.
2581	St. Joseph County Inc.	4-16-41	678 Dr	60	8	S; 3ft., 20al, dia 7 1/2	---	---	Sd, G	Pl ---	---	23	P	---	---	No water reported; see log well 2803. See log well 2803.
2582	Raymond Concrete Pile Co.	4-28-54	687 B	28	---	---	22	4	Sd	Pl U	U	22	T	---	---	Do.
2583	---	4-29-54	676 B	37	---	---	7	30	Sd, G	Pl U	U	7	T	---	---	See log well 2803. Do.
2584	---	4-29-54	675 B	32	---	---	---	---	Sd	Pl ---	---	---	T	---	---	L.
2585	---	4-29-54	675 B	20	---	---	10	16	Sd, G	Pl U	U	10	T	---	---	Bedrock at 141 ft; see log well 2803.
2586	---	4-30-54	670 B	35	---	---	2	33	Sd, G	Pl U	U	2	T	---	---	L.
2581	City of South Bend Inc.	7-3-52	672 J	48	2	S; 60g	20	28	G, Sd	Pl C	C	8	P	---	---	Bedrock at 140 ft; L. See log well 2802.
2582	Layne-Northern Co., Inc.	2-2-59	678 Dr	144	8	---	---	---	Sd, G	Pl ---	---	---	T	---	---	Dd 22 ft pumping 900 gpm; L.
2583	---	2-12-59	678 Dr	144	8	---	1	138	Sd, G	Pl U	U	1	T	---	---	L.
2584	---	3-4-59	678 Dr	138	---	---	---	---	Sd, G	Pl ---	---	0	T	---	---	L.
2581	Indiana-Michigan Water Development Co.	8-8-47	723 Dr	150	14	S; 20ft., 50al, dia 12	118	33	Sd, G	Pl C	C	42	P	---	---	Observation well St. Joseph 15; water level measured 4.23 ft below tad, 3-22-48, See log well 2804.
2782	Dunbar Drilling Co.	---	724 Dr	158	14	S; 20ft., dia 12	---	---	G	Pl ---	---	48	P	---	---	---
2781	---	---	755 Du	10	42	---	---	---	Sd	Pl U	U	---	O	---	---	---
2782	Indiana Toll Road Commission	4-29-54	756 B	30	---	---	---	---	---	---	---	---	T	---	---	---

Table 2.--Records of wells and test holes in St. Joseph 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							
38/2-27C3	Indiana Toll Road Commission	Raymond Concrete Pile Co.	4-10-54	755 B	B	25						22	3	Sd	P1	U	22	T	See log well 26C4.	
27C4	do	do	4-28-54	755 D	D	35													L.	
27C5	do	do	4-29-54	760 B	B	30													See log well 27C4.	
27C6	do	do	4-28-54	760 B	B	38													Do.	
27D1	do	do	4-28-54	776 B	B	40													No water reported; see log well 27D3.	
27D2	do	do	4-28-54	775 D	D	35													See log well 27D3.	
27D3	do	do	4-28-54	774 D	D	50													L.	
27F1	City of South Bend	Layne-Northern Co., Inc.	6-14-50	748 Dr	Dr	81	4	S; 10ft, dia 2 1/2				61	24	Sd, G	P1	C	60	P	Yield 10 gpm; L.	
27J1	do	do	2-26-59	678 Dr	Dr	108	6	S; 3 1/2ft, 60g, dia 1 1/2				76	24	Sd, G	P1	C	76	D, S	L.	
29L1	C. Higgins	Srivor Drilling Co.	12-22-49	787 J	J	100	2	S; 3ft, 60g, dia 1 1/2											Ca, L.	
30H1	Methodist Church	do	7-9-53	795 J	J	87	2	S; 3ft, 60g, dia 1 1/2				86	21	Sd, G	P1	U	66	P	L.	
30H2	L. O. Hawkins	do	6-1-53	803 J	J	87	2	S; 5ft, 60g, dia 2				74	21	Sd, G	P1	U	74	D	L.	
31H1	A. Rhoadak	do	6-1-53	803 J	J	87	2	S; 5ft, 60g, dia 2				75	12	G, Sd	P1	U	75	D	Gravel and sand from 0-87 ft.	
31K2	G. Lattoroll	do	6-3-53	805 J	J	105	2	S; 3ft, 60g, dia 1 1/2				90	16	G	P1	U	90	D	L.	
31Q1	Indiana State Highway Department	do	7-30-50	752 B	B	50													Brown very fine sand from 0-50 ft.	
31Q2	do	do	7-30-50	752 B	B	50													Do.	
31Q3	do	do	7-30-50	752 B	B	50													Brown sand from 0-50 ft.	
32C1	R. Pletz	Srivor Drilling Co.	8-17-48	775 J	J	84	2	S; 3ft, 60g, dia 1 1/2												Ca.
32E1	A. E. Waller	do	8-17-48	757 J	J	80	6	S; 10ft, dia 4				42	38	G, Sd	P1	U	42	P	Yield 50 gpm; Ca, L.	
32J1	Anderson Trailer and Motor Sales	do	8-17-48	757 Dr	Dr	80	6	S; 10ft, dia 4												
32L1	F. R. Ferrro	do	4-21-48	776 J	J	78	2	S; 3ft, 60g, dia 1 1/2												
32L2	O. Williams	Srivor Drilling Co.	5-25-53	772 J	J	84	2	S; 3ft, 60g, dia 1 1/2				50	19	Sd, G	P1	U	50	D	Sand and gravel from 0-69 ft.	
32M1	V. Cavender	do	5-25-53	772 J	J	84	2	S; 3ft, 60g, dia 1 1/2				50	14	Sd, G	P1	U	50	D	Sand and yellow gravel from 0-84 ft.	
32M2	Mr. Dummick	Indiana-Michigan Water Development Co.	2-3-58	749 Dr	Dr	136	6	S; 10ft, 1 1/2in, dia 1 1/2				111	25	Sd	P1	C	36	P	Dd 65 ft after 4 hr pumping 50 gpm; Ca, L.	
32N1	P. Stroup	Srivor Drilling Co.	9-20-44	760 J	J	63	3	S; 3ft, 60g, dia 1 1/2												J1/3
32P1	L. Cull	do	5-0-45	760 J	J	57	3	do												
32Q1	H. A. McCuen	do	12-21-48	756 J	J	60	2	do												
32Q2	H. L. Legend	do	12-5-48	757 J	J	58	2	do												
32Q3	D. L. Ward	do	12-6-46	757 J	J	60	2	do				44	16	Sd, G	P1	U	44	D	Sand and gravel from 0-60 ft.	
32Q4	R. J. Galichowski	do	12-3-46	758 J	J	60	2	S; 3ft, 60g, dia 1 1/2				42	18	Sd, G	P1	U	42	D	Do.	
32R5	T. F. Pitor	do	12-11-46	756 J	J	59	2	S; 2ft, 60g, dia 1 1/2				42	18	Sd, G	P1	U	42	D	Sand and gravel from 0-60 ft; clay at 60 ft.	
32Q6	S. Simpson	R. Reddish	5-1-57	754 J	J	58	2	S; 3ft, 60g, dia 1 1/2				40	16	Sd, G	P1	U	40	D	Yield 8 gpm; sand and gravel overlain by 25 ft sand.	
32H1	L. W. Roms	Srivor Drilling Co.	10-9-47	757 J	J	63	2	S; 3ft, 60g, dia 1 1/2				48	15	Sd, G	P1	U	48	D	Sand and gravel from 0-62 ft.	
32R2	Foust Motel	do	10-17-57	762 J	J	62	2	do				36	25	Sd, G	P1	U	36	D	See log well 32M1.	
33L1	City of South Bend	Layne-Northern Co., Inc.	8-18-59	760 Dr	Dr	103	6-2	do				53	48	Sd, G	P1	U	53	T		
33M1	do	do	8-12-48	764 Dr	Dr	115	8-6	do				55	55	Sd, G	P1	U	55	T		
33M2	do	do	8-9-50	764 Dr	Dr	105	3B	Gp; S; 20ft, 105x1, dia 2B				53	52	G, Sd	P1	U	53	P	Dd 9.5 ft after 8 hr pumping 1,750 gpm; see log well 32M1; Ca.	