

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 30/3-16A1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand, medium-----	2	40	
Sand, fine, dark-gray-----	9	49	
Sand, fine to medium-----	6	55	
Sand, medium-----	3	58	
Sand, medium, with few gravel----	2	60	
Sand, coarse-----	6	66	Fine sand at 66 feet.

Well 30/3-16F2

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

Quaternary System:			
Recent and Pleistocene Series:			
Sand and gravel-----	82	82	
Silt, gray-----	11	93	
Sand, fine-----	5	98	
Gravel, coarse-----	4	102	

Well 30/3-16F3

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	16	16	
Sand-----	2	18	
Hardpan, blue-gray-----	20	38	Clay ?
Silt, fine-----	13	51	
Sand, medium, gray-----	7	58	
Gravel, coarse, blue-----	4	62	

Well 30/3-16G1

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

Quaternary System:			
Recent and Pleistocene Series:			
Top soil and coarse sand-----	14	14	
Gravel-----	24	38	
Sand, light-----	4	42	
Sand, dark-----	3	45	
Sand, fine-----	5	50	

Well 30/3-16H3

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

Quaternary System:			
Recent and Pleistocene Series:			
Sand-----	10	10	
Silt sand, gray-----	22	32	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 30/3-16H3--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Hardpan; clay-----	7	39	
Clay, blue-----	10	49	
Sand, fine, gray-----	15	64	
Gravel, very coarse-----	.4	68	

Well 30/3-16H4

Type of record: Driller's log.

Altitude: 778 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand, gravel, and silt-----	54	54	"Bad water".
Sand, fine, gray-----	4	58	
Gravel, coarse-----	4	62	

Well 30/3-16H5

Type of record: Driller's log from memory.

Altitude: 787 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Gravel, coarse-----	33	33	
Clay, blue-----	15	48	
Gravel-----	4	52	

Well 30/3-16K1

Type of record: Driller's log.

Altitude: 872 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Gravel and brown clay-----	60	60	
Clay, blue-----	40	100	
Gravel, medium, brown-----	25	125	

Well 30/3-16M1

Type of record: Driller's log.

Altitude: 808 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Soil-----	4	4	
Clay, hard, red-----	29	33	
Sand, hard, and stone-----	7	40	
Sand, coarse-----	2	42	
Sand, fine-----	12	54	
Sand, fine to medium-----	5	59	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 30/3-17C1			
Type of record: Driller's log.		Altitude: 787 feet.	
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	8	8	
Sand, fine, gray-----	29	37	
Sand-----	3	40	
Sand, medium-----	3	43	
Well 30/3-20E1			
Type of record: Driller's log.		Altitude: 769 feet.	
Quaternary System:			
Recent and Pleistocene Series:			
Top soil and yellow clay-----	5	5	
Clay, hard, sandy, blue-----	13	18	
Gravel, hard, coarse, yellow to gray-----	16	34	
Well 30/3-21F1			
Type of record: Driller's log.		Altitude: 810 feet.	
Quaternary System:			
Recent and Pleistocene Series:			
Top soil-----	1	1	
Clay, brown-----	20	21	
Sand, medium, brown-----	9	30	
Gravel, medium, brown-----	4	34	
Gravel, coarse, brown-----	3	37	
Well 30/3-28F1			
Type of record: Driller's log.		Altitude: 810 feet.	
Quaternary System:			
Recent and Pleistocene Series:			
Sand, yellow-----	12	12	
Sand, fine, gray-----	15	27	
Clay and stone; hard-----	7	34	
Silt, fine, and gray quicksand----	27	61	
Sand, coarse-----	9	70	
Gravel, coarse, gray-blue-----	6	76	
Well 30/3-30N1			
Type of record: Driller's log.		Altitude: 795 feet.	
Quaternary System:			
Recent and Pleistocene Series:			
Top soil and sand-----	4	4	
Clay, yellow-----	17	21	
Clay, blue, with stones-----	14	35	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 30/3-30N1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Hardpan; clay-----	12	47	
Silt and sand; gray-----	16	63	
Sand, fine-----	8	71	
Gravel, medium to coarse, blue- gray-----	7	78	

Well 30/3-34C1

Type of record: Driller's log.

Altitude: 832 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	23	23	
Clay, blue-----	12	35	
Sand, fine, rusty-----	7	42	
Gravel, coarse, rust-covered-----	4	46	
Sand, fine, gray-----	10	56	
Hardpan; clay and stone-----	10	66	
Sand, coarse, sharp-----	4	70	
Gravel, pea-sized-----	6	76	

Well 30/3-34N1

Type of record: Driller's log from memory.

Altitude: 830 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, brown-----	18	18	
Gravel, brown-----	3	21	
Sand, brown, and silt-----	19	40	
Sand, fine, brown-----	6	46	
Gravel-----	4	50	

Well 30/3-35Q1

Type of record: Driller's log.

Altitude: 832 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, brown-----	14	14	
Clay, blue-----	31	45	
Sand, brown-----	5	50	
Sand, brown, and clay-----	20	70	
Gravel, coarse, blue-----	5	75	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 30/4- 1A1

Type of record: Driller's log.

Altitude: 898 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	10	10	
Gravel-----	20	30	
Clay, blue-----	3	33	
Gravel-----	15	48	

Well 30/4- 2N1

Type of record: Driller's log.

Altitude: 855 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	29	29	
Gravel-----	13	42	
Clay, blue-----	17	59	
Gravel-----	5	64	

Well 30/4- 4D1

Type of record: Driller's log.

Altitude: 820 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	34	34	
Sand-----	6	40	
Clay-----	30	70	
Gravel-----	3	73	

Well 30/4- 5E1

Type of record: Driller's log.

Altitude: 815 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	15	15	
Clay, blue-----	22	37	
Hardpan-----	6	43	
Sand-----	8	51	
Gravel-----	3	54	
Sand-----	24	78	
Gravel-----	2	80	

Well 30/4- 5H1

Type of record: Driller's log.

Altitude: 812 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand and yellow clay-----	10	10	
Clay, blue-----	30	40	
Gravel-----	3	43	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 30/4- 7C1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Top soil and sand-----	10	10	
Clay, blue-----	8	18	
Clay, blue, sand, and gravel-----	18	36	
Gravel-----	4	40	

Well 30/4- 7F2

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	18	18	
Clay, blue-----	7	25	
Sand-----	23	48	
Sand, coarse-----	5	53	

Well 30/4-11M1

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	15	15	
Gravel-----	11	26	
Clay, blue, and gravel; mixed---	13	39	
Gravel-----	5	44	

Well 30/4-13L1

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

Quaternary System:			
Recent and Pleistocene Series:			
Sand-----	4	4	
Clay, yellow-----	12	16	
Clay, blue-----	36	52	
Gravel-----	13	65	

Well 30/4-15H1

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

Quaternary System:			
Recent and Pleistocene Series:			
Sand and yellow clay-----	12	12	
Clay, blue, with some small stones	50	62	
Sand and gravel-----	4	66	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 30/4-19C1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	15	15	
Sand, fine-----	8	23	
Sand, coarse-----	4	27	

Well 30/4-22D1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Gravel-----	18	18	
Hardpan-----	5	23	
Gravel-----	3	26	

Well 30/4-23D1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	20	20	
Gravel, coarse-----	1	21	
Clay, blue-----	15	36	
Gravel, gray-----	3	39	

Well 30/4-24D1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow, and sand-----	12	12	
Clay, sandy, pebbly, blue-----	22	34	
Gravel, fine to medium-----	4	38	

Well 30/4-24H1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	17	17	
Gravel-----	4	21	
Clay, blue-----	26	47	
Gravel-----	6	53	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 30/4-25M1

Type of record: Driller's log.

Altitude: 830 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Muck-----	6	6	
Marl-----	14	20	
Gravel, marl, and sand; mixed----	3	23	

Well 30/4-26H1

Type of record: Driller's log from memory.

Altitude: 855 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, blue-----	80	80	
Sand-----	10	90	
Clay, blue-----	71	161	
Gravel-----	4	165	

Well 30/4-26Q1

Type of record: Driller's log.

Altitude: 852 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	14	14	
Clay, blue-----	48	62	
Gravel-----	4	66	
Stones-----	4	70	
Clay, yellow-----	2	72	
Gravel, yellow-----	2	74	
Record missing-----	40	114	

Well 30/4-32B1

Type of record: Driller's log.

Altitude: 825 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Top soil and hard clay-----	16	16	
Clay, soft, blue-----	20	36	
Clay, hard, blue, with stone----	54	90	
Sand, coarse, sharp, and silt---	18	108	
Sand, sharp-----	3	111	
Gravel, coarse, dirty-----	4	115	
Sand, fine, and very coarse, big gravel-----	5	120	



Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 30/4-32E1

Type of record: Driller's log.

Altitude: 832 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Top soil-----	5	5	
Clay, yellow-----	10	15	
Clay, blue-----	11	26	
Sand, fine-----	4	30	
Clay, blue-----	23	53	
Gravel, coarse-----	4	57	

Well 30/4-34E1

Type of record: Driller's log.

Altitude: 847 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	18	18	
Clay, blue-----	18	36	
Sand, medium-----	2	38	
Hardpan; clay with stones-----	16	54	
Sand-----	6	60	
Sand, very coarse-----	4	64	

Well 30/4-35G1

Type of record: Driller's log.

Altitude: 865 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	37	37	
Gravel-----	4	41	
Sand, fine-----	21	62	
Hardpan; clay and stone-----	13	75	
Clay, blue-----	16	91	
Sand, sharp-----	5	96	
Gravel, coarse, blue-----	10	106	

Well 30/4-36J1

Type of record: Driller's log.

Altitude: 885 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	18	18	
Clay, blue-----	20	38	
Sand and gravel-----	28	66	
Sand and stone-----	41	107	
Gravel-----	3	110	
Clay, blue-----	27	137	
Sand and stone-----	31	168	
Sand, fine-----	12	180	
Sand and fine gravel-----	6	186	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 30/5-20M1

Type of record: Driller's log. Altitude: 873 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand-----	4	4	
Clay, blue-----	36	40	
Gravel-----	14	54	

Well 30/5-21F1

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

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand and clay-----	4	4	
Gravel-----	23	27	
Clay, blue-----	65	92	
Gravel, coarse-----	3	95	

Well 30/5-28N1

Type of record: Driller's log. Altitude: 872 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	15	15	
Gravel-----	15	30	
Clay, blue-----	11	41	
Gravel-----	5	46	

Well 30/5-30P1

Type of record: Driller's log. Altitude: 878 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	30	30	
Gravel-----	25	55	
Clay, blue-----	35	90	
Gravel-----	6	96	

Well 31/1- 1K1

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

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	21	21	
Clay, blue-----	21	42	
Sand, fine-----	6	48	
Clay, blue-----	22	70	
Sand and pea-sized gravel-----	17	87	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 31/1- 2P1

Type of record: Driller's log. Altitude: 764 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, blue-----	25	25	
Sand and blue clay-----	45	70	
Sand and gravel-----	8	78	

Well 31/1- 6K1

Type of record: Driller's log. Altitude: 731 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand-----	30	30	
Clay, blue-----	60	90	
Clay, blue, sand, and gravel-----	35	125	
Gravel-----	3	128	

Well 31/1- 7A1

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay, blue-----	75	75	
Clay, blue, and sand-----	57	132	
Gravel-----	5	137	

Well 31/1- 8H1

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

Quaternary System:			
Recent and Pleistocene Series:			
Sand with streak of yellow clay--	18	18	
Sand-----	10	28	
Sand, gray, and gravel; dirty----	20	48	
Clay, blue-----	22	70	
Sand with some gravel-----	4	74	
Gravel, pea-sized-----	4	78	

Well 31/1- 8R1

Type of record: Driller's log. Altitude: 751 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Soil; black organic silty clay with trace of sand-----	4	4	
Clay, silty, brown and gray, with trace of sand and gravel--	5	9	
Clay, silty, gray, with trace of sand and gravel-----	7	16	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 31/1-8R1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Gravel, sandy, gray, with trace of silt and clay-----	1	17	
Clay, silty, gray, with trace of sand and gravel-----	35	52	

Well 31/1-8R2

Type of record: Driller's log. Altitude: 752 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Soil; organic silty clay with trace of sand and gravel-----	2	2	
Clay, silty, brown and gray with trace of sand and gravel-----	3	5	
Clay, silty, sandy, brown with gravel-----	6	11	
Clay, silty, gray, with trace of sand and gravel-----	25	36	

Well 31/1-8R3

Type of record: Driller's log. Altitude: 757 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, silty, organic, brown, with trace of sand-----	2	2	
Clay, sandy, impervious, brown, with trace of silt-----	4	6	
Clay, silty, sandy, brown, with trace of gravel-----	4	10	
Sand, brown, with trace of silt--	5	15	
Clay, silty, with gravel-----	1	16	
Clay, silty, gray with trace of sand and gravel-----	8	24	
Sand, gravelly, brown, with trace of clay-----	23	47	
Sand, gray, with trace of gravel-	5	52	

Well 31/1- 9N1

Type of record: Driller's log. Altitude: 751 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Soil; black organic silty clay with trace of sand-----	2	2	
Clay, silty, organic, mottled black, brown, and gray-----	2	4	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 31/1 9N1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, silty, mottled brown and gray, with trace of sand and gravel-----	5	9	
Sand, gray, with trace of silt---	6	15	
Clay, silty, gray, with trace of sand and gravel-----	17	32	

Well 31/1- 9N3

Type of record: Driller's log. Altitude: 756 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Soil; brown organic silty clay with trace of sand-----	3	3	
Clay, silty, sandy, brown, with trace of gravel-----	9	12	
Clay, silty, gray, with trace of sand and gravel-----	8	20	
Sand, gray, with trace of silt---	12	32	

Well 31/1-12L1

Type of record: Driller's log. Altitude: 762 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow and blue, and sand--	46	46	
Sand and gravel-----	13	59	
Gravel-----	3	62	

Well 31/1-16D1

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay, blue, and sand-----	90	90	
Sand and gravel-----	4	94	
Gravel-----	7	101	

Well 31/1-16H1

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	26	26	
Clay, blue-----	10	36	
Clay, blue, and gravel-----	4	40	
Sand and gravel-----	19	59	
Gravel-----	5	64	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 31/1-16J1

Type of record: Driller's log.

Altitude: 745 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	20	20	
Gravel and blue clay-----	35	55	
Gravel-----	3	58	

Well 31/1-16Q1

Type of record: Driller's log.

Altitude: 742 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand, white-----	40	40	
Gravel and sand-----	35	75	
Gravel-----	4	79	

Well 31/1-17A1

Type of record: Driller's log.

Altitude: 780 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Top soil-----	7	7	
Clay-----	6	13	
Gravel-----	50	63	
Clay, blue-----	17	80	
Gravel-----	7	87	

Well 31/1-17A2

Type of record: Driller's log.

Altitude: 765 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, silty, sandy, brown, with trace of gravel-----	2	2	
Clay, silty, brown, with trace of sand and gravel-----	4	6	
Sand, silty, brown, with trace of clay and gravel-----	9	15	
Clay, silty, sandy, brown, with trace of gravel-----	5	20	
Clay, silty, gray, with trace of sand and gravel-----	6	26	
Gravel, sandy, brown and gray----	4	30	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 31/1-18B1

Type of record: Driller's log.

Altitude: 742 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, blue-----	40	40	
Sand and gravel-----	6	46	
Clay, blue-----	19	65	
Gravel and sand-----	4	69	

Well 31/1-19J1

Type of record: Driller's log.

Altitude: 787 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	75	75	
Clay and sand-----	45	120	
Clay, blue-----	25	145	
Sand-----	10	155	
Gravel-----	6	161	

Well 31/1-21B1

Type of record: Driller's log.

Altitude: 787 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, blue, with sand and gravel-	70	70	
Sand, fine-----	4	74	
Clay, hard, and sand-----	20	94	
Sand, coarse, and gravel-----	7	101	

Well 31/1-21B2

Type of record: Driller's log.

Altitude: 743 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Muck-----	10	10	
Clay, blue-----	30	40	
Clay, blue, and gravel; mixed---	80	120	
Quicksand-----	10	130	
Gravel-----	11	141	

Well 31/1-21F2

Type of record: Driller's log.

Altitude: 782 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	20	20	
Gravel and blue clay-----	25	45	
Clay, blue-----	33	78	
Sand and gravel-----	8	86	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 31/1-23F1

Type of record: Driller's log. Altitude: 743 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Top soil and sand-----	8	8	
Clay-----	12	20	
Sand-----	36	56	

Well 31/1-23G1

Type of record: Driller's log. Altitude: 743 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Gravel-----	30	30	
Clay, yellow-----	3	33	
Sand, fine, gray-----	19	52	
Sand, fine, yellow-----	19	71	
Sand, fine, gray-----	39	110	
Sand, gray-----	12	122	

Well 31/1-24M1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand, yellow-----	14	14	
Sand and rust-colored gravel-----	28	42	
Sand, gray, and some gravel-----	13	55	
Gravel, medium to coarse-----	6	61	

Well 31/1-34D1

Type of record: Driller's log. Altitude: 767 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	22	22	
Clay, blue, and gravel-----	23	45	
Sand-----	20	65	
Clay, blue, and gravel-----	13	78	
Sand and gravel-----	10	88	
Gravel-----	3	91	

Well 31/1-36P1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Gravel, hard, brown-----	25	25	
Clay, soft, gray-----	9	34	
Gravel, coarse, blue-----	8	42	
Sand, fine, yellow-----	8	50	
Sand, coarse, white-----	5	55	



Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 31/2- 3D1

Type of record: Driller's log.

Altitude: 876 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	10	10	
Gravel with stones-----	11	21	
Gravel and sand-----	59	80	
Sand, coarse-----	20	100	
Sand, fine-----	80	180	
Sand, coarse-----	14	194	

Well 31/2- 4B1

Type of record: Driller's log.

Altitude: 827 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	30	30	
Gravel, dirty-----	35	65	
Sand, coarse-----	8	73	

Well 31/2- 4Q1

Type of record: Driller's log.

Altitude: 812 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	18	18	
Clay, blue-----	16	34	
Sand, yellow-----	25	59	
Sand, blue, and silt-----	8	67	
Sand, yellow-----	3	70	
Gravel, fine-----	4	74	

Well 31/2- 7C1

Type of record: Driller's log.

Altitude: 775 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, blue-----	40	40	
Sand and clay-----	15	55	
Sand and gravel-----	13	68	

Well 31/2- 8A1

Type of record: Driller's log.

Altitude: 796 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	18	18	
Clay, blue-----	52	70	
Gravel, fine to medium-----	4	74	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 31/2-11N1

Type of record: Driller's log.

Altitude: 838 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand and boulders-----	18	18	
Gravel-----	18	36	
Gravel and yellow sand-----	15	51	
Sand, fine-----	8	59	
Gravel, coarse-----	3	62	

Well 31/2-12J1

Type of record: Driller's log.

Altitude: 886 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, blue-----	25	25	
Sand and gravel-----	3	28	
Clay, blue-----	64	92	
Gravel, medium-----	3	95	
Sand, fine to medium-----	2	97	
Clay, blue, and hardpan-----	43	140	
Sand, medium-----	7	147	Blue clay at 147 feet.

Well 31/2-16N1

Type of record: Driller's log.

Altitude: 807 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	18	18	
Clay, blue-----	17	35	
Sand, fine-----	31	66	
Sand, coarse-----	4	70	

Well 31/2-18N1

Type of record: Driller's log.

Altitude: 765 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	20	20	
Clay, and gravel-----	18	38	
Clay, blue, and rocks-----	56	94	
Sand and gravel-----	8	102	
Gravel-----	16	118	

Well 31/2-19R4

Type of record: Driller's log.

Altitude: 732 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Loam, sandy, and clay-----	60	60	
Sand-----	5	65	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 31/2-19R4--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, blue-----	20	85	
Clay, reddish-brown-----	71	156	
Gravel, coarse-----	1	157	
Devonian System:			
Middle Devonian? Series:			
Limestone-----	22	179	

Well 31/2-22E1

Type of record: Driller's log. Altitude: 762 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	39	39	
Sand-----	2	41	
Gravel and sand-----	2	43	

Well 31/2-31K1

Type of record: Driller's log. Altitude: 748 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand, yellow-----	8	8	
Silt sand, fine, dark-----	26	34	
Sand and stone; hard-----	4	38	
Gravel, coarse-----	5	43	

Well 31/3- 3C1

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow and blue-----	50	50	
Record missing-----	10	60	
Sand-----	10	70	
Clay, blue-----	41	111	
Gravel-----	4	115	

Well 31/3- 8D1

Type of record: Driller's log. Altitude: 867 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Record missing-----	70	70	
Silt sand, fine-----	8	78	
Clay, blue-----	17	95	
Sand-----	13	108	
Clay with stone-----	9	117	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 31/3- 8D1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand with stone-----	14	131	
Sand-----	12	143	
Gravel-----	2	145	

Well 31/3-10E1

Type of record: Driller's log from memory. Altitude: 817 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Gravel, red, and clay-----	45	45	
Clay, blue-----	55	100	
Sand mixed with some blue clay---	45	145	
Gravel with some sand-----	5	150	

Well 31/3-12B1

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

Quaternary System:			
Recent and Pleistocene Series:			
Sand, gravelly, red, with clay---	18	18	
Sand, white-----	18	36	
Clay, blue-----	2	38	
Sand, fine, and gravel-----	7	45	
Gravel, coarse-----	11	56	

Well 31/3-14K1

Type of record: Driller's log. Altitude: 767 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand, red, and clay-----	10	10	
Sand, gray-----	18	28	
Clay, blue-----	3	31	
Sand, fine, light-colored-----	23	54	
Gravel, medium-----	3	57	

Well 31/3-19G1

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay, brown-----	18	18	
Gravel-----	4	22	
Sand-----	11	33	
Clay, blue-----	17	50	
Gravel, medium-----	18	68	Blue clay at 68 feet.

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 31/3-20K1

Type of record: Driller's log.

Altitude: 800 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand and gravel-----	36	36	
Sand-----	10	46	
Clay, blue-----	12	58	
Gravel, fine to very coarse-----	2	60	

Well 31/3-23D1

Type of record: Driller's log.

Altitude: 770 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Top soil and sand-----	36	36	
Sand, fine-----	18	54	
Gravel, coarse-----	4	58	

Well 31/3-26D1

Type of record: Driller's log.

Altitude: 782 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Top soil and clay-----	11	11	
Sand, gray-----	25	36	
Silt-----	9	45	
Sand-----	3	48	
Clay, blue-----	15	63	
Sand, packed-----	48	111	
Gravel, clover-seed-sized-----	3	114	

Well 31/3-28A1

Type of record: Driller's log.

Altitude: 773 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, blue-----	15	15	
Sand-----	24	39	
Gravel, coarse-----	4	43	

Well 31/3-31N1

Type of record: Driller's log.

Altitude: 767 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand, light-----	8	8	
Sand, fine, gray-----	32	40	
Sand, gray-blue-----	3	43	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 31/3-32C1

Type of record: Driller's log. Altitude: 767 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, soft, brown and blue-----	16	16	
Gravel, coarse-----	10	26	
Clay, blue-----	3	29	
Quicksand-----	4	33	
Sand-----	10	43	
Gravel, medium-----	3	46	

Well 31/3-32E2

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

Quaternary System:			
Recent and Pleistocene Series:			
Sand, fine, yellow and gray, and blue clay-----	54	54	
Clay, blue-----	16	70	
Gravel, coarse, sharp-----	6	76	
Gravel, pea-sized, with some gray fine sand-----	3	79	

Well 31/3-32Q2

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay, brown-----	9	9	
Gravel, hard, brown-----	6	15	
Gravel, medium, brown-----	15	30	
Sand, white-----	3	33	
Gravel, medium, gray-----	17	50	

Well 31/3-32R1

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

Quaternary System:			
Recent and Pleistocene Series:			
Top soil and sand-----	7	7	
Sand and gravel-----	32	39	
Gravel, pea-sized-----	3	42	

Well 31/3-34D1

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

Quaternary System:			
Recent and Pleistocene Series:			
Record missing-----	44	44	
Sand, fine, gray-----	2	46	
Sand and stone; very hard-----	22	68	

Table 4.--Selected logs of wells and test holes in Fulton County, Ind.--Cont.

Well 31/3-34D1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, blue-----	17	85	
Sand, fine, sharp-----	5	90	
Gravel, coarse-----	3	93	

Well 31/4-16H1

Type of record: Driller's log.

Altitude: 822 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Top soil and sand-----	18	18	
Clay, blue-----	36	54	
Gravel and clay; mixed-----	18	72	
Gravel-----	4	76	

Well 31/4-29P1

Type of record: Driller's log.

Altitude: 830 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	45	45	
Gravel, coarse-----	4	49	
Clay-----	10	59	
Sand-----	4	63	

Table 5.--Field chemical analyses of water from wells in Fulton County, Indiana

(Results in parts per million. Analyses by U. S. Geological Survey, except where otherwise noted.)

Well: See text for description of well-numbering system.

U. S. Public Health Service drinking-water standards:  
 Iron (Fe) - 0.3 ppm for iron and manganese together;  
 Sulfate (SO<sub>4</sub>) - 250 ppm; Chloride (Cl) - 250 ppm.  
 Remarks: IFC, analysis by International Filter Co.

Material: G, gravel; Ls, limestone; Sd, sand.  
 Geologic age: D, Devonian; Pl, Pleistocene.

Well	Material	Geologic age	Date of collection	Temperature (°F)	Iron (Fe)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Hardness as CaCO <sub>3</sub> (Calcium, magnesium)	Remarks	
29/1-1F1	Sd,G	Pl	7-26-60	53	1.0	415	25	4	288		
	G	Pl	7-26-60	--	3.0	264	45	4	212		
	G	Pl	7-26-60	--	3.0	337	35	8	264		
	G,Sd	Pl	7-26-60	--	3.0	444	15	4	324		
	G	Pl	7-26-60	--	.1	415	50	16	344		
	Sd	Pl	7-26-60	53	1.0	356	5	4	200		
36G1	G,Sd	Pl	1-19-61	--	1.0	468	30	4	336		
29/2-1R1	G	Pl	1-20-61	57	1.5	425	20	4	288		
	G	Pl	7-19-60	--	1.0	337	10	4	228		
	G	Pl	1-19-61	--	2.0	434	10	4	284		
	G	Pl	7-27-60	--	3.0	400	15	4	292		
	G,Sd	Pl	7-26-60	--	1.5	400	25	8	324		
	G	Pl	7-27-60	54	1.5	420	15	4	304		
	G,Sd	Pl	7-27-60	53	2.0	322	65	8	316		
	G	Pl	1-6-61	54	1.5	464	10	4	208		
	G,Sd	Pl	1-6-61	52	4.0	488	175	32	540		
	G	Pl	7-26-60	--	2.0	317	40	4	244		
	G	Pl	1-6-61	--	2.0	429	25	4	312		
	24D1	G	Pl	7-26-60	56	3.0	337	55	16	288	
	24E1	G,Sd	Pl	1-6-61	54	2.0	425	10	4	284	
26J1	Sd	Pl	1-6-61	52	3.0	468	55	20	404		
30C1	G	Pl	7-27-60	--	4.0	395	105	20	428		



29/2-32N1	P1	G	1- 6-61	--	0.5	454	10	4	320
32P1	P1	Sd,G	1- 6-61	--	>5.0	459	95	8	428
35H1	P1	G,Sd	10-24-57	51	2.0	---	---	32	---
29/3- 3B1	P1	Sd	10-24-57	55	3.0	---	---	28	---
3F1	P1	G	7-28-60	--	5.0	459	10	8	396
7P1	P1	G	10-28-60	54	2.0	361	10	4	240
10H1	P1	G	10-24-57	58	1.5	317	---	12	232
10H1	P1	G	7-28-60	--	1.0	415	5	4	280
15D1	P1	G,Sd	7-28-60	--	.5	468	20	4	352
15E2	P1	G	7-28-60	--	.5	381	10	4	288
15M1	P1	Sd,G	7-28-60	59	1.5	307	60	8	288
16H1	P1	G	7-28-60	--	1.0	439	10	4	328
16J1	P1	G	7-28-60	--	1.5	327	55	8	284
16R1	P1	G,Sd	7-28-60	58	1.0	342	30	4	244
21L1	P1	Sd,G	7-28-60	54	3.0	386	20	4	280
22E3	P1	G	7-29-60	--	1.0	312	50	8	288
28F1	P1	G	8-15-57	--	1.0	273	---	18	236
30/1- 1C1	P1	G,Sd	1-18-61	--	3.0	376	60	4	308
2L1	P1	Sd,G	11-17-60	--	2.0	410	20	4	324
5A1	P1	Sd,G	1-19-61	--	1.5	425	85	8	376
6G2	P1	Sd,G	9-18-57	53	2.0	190	---	10	180
6G3	P1	G	9-18-57	--	1.5	210	---	14	180
6H1	P1	Sd,G	9-18-57	55	1.0	288	---	24	244
6K1	P1	G	9-18-57	55	1.7	264	---	10	224
6P1	P1	Sd,G	9-18-57	55	3.0	342	---	10	288
6P2	P1	Sd,G	1-19-61	55	.1	483	15	<4	344
9E1	P1	G,Sd	1-19-61	--	1.5	449	40	4	368
27F1	P1	G,Sd	3-19-57	--	---	210	---	---	208
30/2- 1E1	P1	Sd	12-15-60	56	1.5	342	50	4	284
3D1	P1	G	11-16-60	57	1.0	346	35	4	332
4N1	P1	Sd	8-10-56	--	---	266	---	<2	240
5P1	P1	G	11-16-60	58	1.5	361	75	12	340
8A1	P1	G	8-10-56	--	---	298	---	<2	244
8A2	P1	Sd	11-17-60	54	1.0	425	15	4	316
12G1	P1	G	8-10-56	--	---	227	---	2	240
12J1	P1	Sd,G	12-15-60	58	1.5	361	40	8	296

Table 5.--Field chemical analyses of water from wells in Fulton County, Indiana--Continued

Well	Ma- teri- al	Geo- logic age	Date of collec- tion	Temper- ature (°F)	Iron (Fe)	Bicar- bonate (HCO <sub>3</sub> )	Sul- fate (SO <sub>4</sub> )	Chlo- ride (Cl)	Hardness as CaCO <sub>3</sub> (Calcium, magnesium)	Remarks	
30/2-17J1	G	P1	11-16-60	--	----	356	15	4	260		
	Sd,G	P1	11-07-57	56	1.5	---	---	24	---		
	Sd,G	P1	11-16-60	58	1.0	381	15	8	264		
	G	P1	10-25-57	56	1.0	---	---	4	---		
	Sd,G	P1	8-09-56	--	----	317	---	2	272		
	G	P1	11-16-60	57	.3	439	35	4	---		
	G	P1	12-15-60	--	2.0	429	25	8	348		
	Sd,G	P1	12-16-60	52	1.0	454	5	<4	316		
	Sd	P1	12-16-60	57	2.0	434	10	<4	328		
	30/3-1E1	G	P1	10-25-60	54	4.0	376	85	4	344	
		G	P1	12-16-60	--	2.0	425	35	8	332	
		Sd,G	P1	10-25-60	--	1.0	342	45	4	280	
		G	P1	10-27-60	58	2.0	381	50	4	304	
		Sd,G	P1	10-27-60	--	2.0	337	40	8	276	
		Sd,G	P1	10-28-60	57	1.5	332	85	4	336	
G		P1	10-25-60	56	2.0	332	45	4	256		
G		P1	10-26-60	--	1.0	376	55	8	316		
Sd,G		P1	12-16-60	58	1.0	395	55	8	332		
Sd,G		P1	-----	--	.7	288	----	---	291	IFC.	
G		P1	10-26-60	56	.3	351	100	12	376		
G,Sd		P1	10-27-60	57	1.5	322	80	8	304		
G		P1	10-28-60	59	1.0	371	55	4	296		
G		P1	10-27-60	--	1.5	371	50	8	312		
Sd,G		P1	10-25-60	--	1.5	400	5	12	284		
G	P1	11-05-57	--	1.0	322	----	16	280			
G	P1	11-05-57	58	.8	332	----	16	268			
10F1	Sd,G	P1	10-22-57	58	1.0	283	----	32	280		
	Sd,G	P1	10-25-60	59	2.0	351	40	4	260		
	Sd,G	P1	10-25-60	58	1.5	332	55	8	276		
	Sd,G	P1	10-27-60	--	2.0	395	90	12	368		

30/3-10J2	P1	10-25-60	--	2.0	434	10	4	292
10K5	P1	10-27-60	--	2.0	405	60	12	336
10M3	P1	10-27-60	--	2.0	371	15	8	276
10M4	P1	11-5-57	59	1.0	342	---	20	276
10M8	P1	10-27-60	--	4.0	386	10	8	280
12N1	P1	10-25-60	54	3.0	390	110	<4	372
13D2	P1	10-25-60	--	2.0	400	10	4	284
14E1	P1	10-25-60	59	3.0	429	5	4	308
15A1	P1	10-25-60	--	.3	390	25	4	220
15E5	P1	10-27-60	54	2.0	390	45	8	304
15R1	P1	10-25-60	--	3.0	400	45	132	436
16H6	P1	10-26-60	59	3.0	429	5	8	296
16K1	P1	11-17-60	--	.1	381	50	8	328
16M1	P1	10-26-60	--	.5	405	50	4	352
17C1	P1	10-26-60	--	.3	395	60	8	348
20E1	P1	12-16-60	--	.3	405	80	8	404
21F1	P1	11-18-60	50	.1	434	40	20	392
21L1	P1	10-26-60	54	.1	395	45	24	364
23E1	P1	12-16-60	--	2.0	478	20	4	344
26J1	P1	11-6-57	58	1.0	---	---	16	---
26M1	P1	10-22-57	53	1.0	---	---	16	---
26N1	P1	10-26-60	52	5.0	498	75	8	408
27J1	P1	10-26-60	56	2.0	444	50	8	380
27N1	P1	10-22-57	58	.5	---	---	4	---
28B1	P1	10-22-57	58	1.5	---	---	12	---
30N1	P1	12-16-60	52	2.0	464	15	4	372
31G1	P1	10-26-60	--	3.0	439	50	4	352
32B1	P1	10-26-60	55	3.0	464	45	4	356
33Q1	P1	8-8-56	58	---	278	---	4	256
33Q1	P1	10-26-60	56	.1	381	45	8	328
34C1	P1	11-17-60	52	1.5	473	90	16	494
34M2	P1	10-26-60	56	1.5	464	40	4	364
34N1	P1	7-28-60	--	.3	522	90	16	456
35A1	P1	10-26-60	56	1.2	488	70	20	444
35Q1	P1	1-5-61	--	1.5	493	55	4	400
35R1	P1	1-5-61	--	0.5	512	40	4	388
30/4-1A1	P1	12-8-60	50	.1	425	30	12	408

Table 5.--Field chemical analyses of water from wells in Fulton County, Indiana--Continued

Well	Ma- teri- al	Geo- logic age	Date of collec- tion	Temper- ature (°F)	Iron (Fe)	Bicar- bonate (HCO <sub>3</sub> )	Sul- fate (SO <sub>4</sub> )	Chlo- ride (Cl)	Hardness as CaCO <sub>3</sub> (Calcium, magnesium)	Remarks
30/4- 2N1	G	P1	12- 8-60	52	3.0	434	55	4	372	
5E1	Sd,G	P1	12- 8-60	--	.1	429	50	4	364	
5H1	G	P1	12- 8-60	--	1.0	439	25	4	344	
5K1	G	P1	10-23-57	56	1.5	---	---	8	---	
7G1	G	P1	12- 8-60	58	1.5	415	55	8	364	
7F1	Sd	P1	8- 8-56	--	---	256	---	4	248	
7P2	G	P1	12- 9-60	50	---	420	65	64	340	
11M1	G	P1	12- 8-60	--	1.5	454	90	12	428	
13L1	G	P1	12- 9-60	--	3.0	386	55	4	320	
15H1	Sd,G	P1	8-15-57	--	.5	351	---	14	340	
15H1	Sd,G	P1	12- 9-60	--	1.5	415	45	4	340	
17E1	Sd,G	P1	12- 9-60	55	3.0	390	50	4	308	
17Q1	G	P1	8-15-57	--	1.5	171	---	12	232	
19C1	Sd	P1	12- 9-60	51	2.0	468	65	8	408	
22D1	G	P1	11-18-60	54	2.0	429	45	8	344	
23D1	G	P1	11-18-60	54	1.0	454	60	20	376	
24H1	G	P1	11-18-60	56	2.0	390	50	8	332	
24K1	G	P1	11-18-60	--	1.5	464	45	8	368	
24L1	G	P1	8-16-57	--	.5	151	---	56	220	
25F1	G	P1	12- 9-60	50	3.0	468	50	4	404	
26H1	G	P1	8-16-57	--	.1	312	---	10	228	
26H1	G	P1	12- 9-60	--	.3	190	10	<4	---	
26Q1	G,Sd	P1	10-23-57	57	2.0	386	---	8	312	
32B1	Sd,G	P1	12- 9-60	--	.3	395	40	4	336	
32E1	G	P1	12- 9-60	55	.5	381	45	4	324	
34E1	Sd	P1	8- 8-56	--	---	261	---	4	268	
34E1	Sd	P1	3-19-57	--	---	351	---	4	356	
34E1	Sd	P1	12- 9-60	--	.3	454	30	4	368	
35G1	G,Sd	P1	12- 9-60	52	3.0	434	10	4	308	
36J1	Sd,G	P1	12- 9-60	55	1.5	493	20	4	356	

30/5-20M1	G	P1	12-15-60	56	.5	488	55	12	432
21F1	G	P1	12-15-60	52	7.5	444	30	4	348
27R2	G	P1	12-15-60	50	.1	434	35	8	348
28K1	G,Sd	P1	12-15-60	--	3.0	439	100	8	436
31/1- 1K1	Sd,G	P1	1-18-61	--	2.5	307	10	4	204
1R1	Sd,G	P1	1-18-61	--	1.0	386	35	4	304
2N1	G	P1	10-13-60	--	1.0	312	55	8	240
6K1	G	P1	11-17-60	--	2.0	337	10	4	240
7A1	G	P1	11-17-60	59	-----	444	5	4	320
8H1	G,Sd	P1	11-16-60	--	1.0	532	5	4	404
12L1	G,Sd	P1	10-13-60	--	1.5	303	65	4	280
16D1	G,Sd	P1	11-16-60	56	1.0	503	35	4	372
16H1	G,Sd	P1	11-16-60	--	-----	420	90	4	-----
16H2	G	P1	1956	--	-----	---	---	10	304
19J1	Sd,G	P1	11-17-60	--	1.0	439	20	4	324
23G1	Sd	P1	11-17-60	54	3.0	366	20	4	288
24M1	Sd,G	P1	11-15-60	56	1.5	361	25	4	268
33F1	Sd,G	P1	11-17-60	54	5.0	503	15	4	372
34D1	G,Sd	P1	11-17-60	56	3.0	434	40	8	348
36P1	Sd,G	P1	11-17-60	54	2.0	366	60	4	328
31/2- 1N1	G	P1	10-13-60	--	4.0	439	20	8	296
3D2	Sd,G	P1	10-12-60	57	.3	449	60	4	332
4P1	G,Sd	P1	10-12-60	--	.1	425	60	8	328
4Q1	Sd,G	P1	7-26-56	--	-----	325	---	6	368
4Q1	Sd,G	P1	10-13-60	57	.3	395	70	8	352
7A1	G	P1	7-26-56	--	-----	276	---	<2	272
7C1	Sd,G	P1	10-13-60	--	.3	425	40	8	316
7E1	G	P1	10-13-60	54	1.5	425	75	16	400
8A1	G	P1	10-13-60	56	.3	400	60	4	332
10A1	G,Sd	P1	10-13-60	58	.3	366	30	4	296
10R1	G	P1	7-18-56	--	-----	364	---	<2	356
11N1	G,Sd	P1	10-13-60	58	.1	405	45	8	336
12J1	Sd	P1	10-12-60	55	3.0	410	40	4	324
14R1	G	P1	10-13-60	--	2.0	444	40	4	328
15D1	Sd,G	P1	11- 4-57	53	.1	---	---	12	-----
16N1	Sd	P1	7-26-56	--	-----	329	---	<2	332

Table 5.--Field chemical analyses of water from wells in Fulton County, Indiana--Continued

Well	Ma- teri- al	Geo- logic age	Date of collec- tion	Temper- ature (°F)	Iron (Fe)	Bicar- bonate (HCO <sub>3</sub> )	Sul- fate (SO <sub>4</sub> )	Chlo- ride (Cl)	Hardness as CaCO <sub>3</sub> (Calcium, magnesium)	Remarks
31/2-16N1	Sd	P1	10-13-60	--	0.5	381	40	4	348	
18N1	G,Sd	P1	10-13-60	--	.5	405	25	4	296	
19R4	Ls	D?	12-16-60	52	.1	361	80	16	260	
20N1	Sd	P1	10-14-60	53	2.0	337	15	4	240	
22E1	Sd,G	P1	11-15-60	--	.1	381	35	4	272	
22H1	Sd	P1	12-16-60	--	2.0	420	40	4	332	
23F2	G,Sd	P1	11-15-60	58	1.5	293	25	<4	216	
24G1	G	P1	10-24-57	58	.1	293	-----	16	328	
27H1	G	P1	12-16-60	54	1.0	405	35	4	328	
30R1	G	P1	8- 9-56	--	-----	246	-----	8	276	
31K1	Sd,G	P1	11- 4-57	58	1.0	244	-----	12	272	
31Q1	G	P1	11-15-60	--	.3	254	140	4	304	
36G1	G	P1	11-15-60	--	1.0	283	40	4	236	
31/3- 1J1	Sd,G	P1	7-18-56	--	-----	329	-----	<2	328	
1N1	Sd	P1	7-27-56	--	-----	342	-----	2	292	
1N1	Sd	P1	10-11-60	56	4.0	420	5	4	292	
1P1	G	P1	7-18-56	--	-----	388	-----	<2	340	
1P1	G	P1	10-13-60	--	3.0	434	10	4	300	
7R1	Sd,G	P1	10-13-60	58	.1	395	85	16	356	
8D1	Sd,G	P1	10-12-60	55	3.0	415	15	4	308	
10E1	Sd,G	P1	11- 5-57	53	1.5	---	-----	20	-----	
10E1	Sd,G	P1	10-13-60	--	.5	425	10	4	312	
11J1	G	P1	8- 6-57	---	3.0	381	-----	<4	320	
12B1	G,Sd	P1	10-12-60	57	4.0	366	15	4	276	
12E1	Sd,G	P1	8- 6-57	52	1.5	361	-----	2	316	
12F1	Sd,G	P1	8- 6-57	52	1.5	373	-----	6	332	
14K1	Sd,G	P1	10-12-60	--	3.0	351	15	4	248	
17B1	G	P1	10-12-60	--	.3	410	80	16	396	
17H1	G	P1	10-13-60	59	1.5	381	55	8	316	

31/3-18H1	P1	G,Sd	12-12-60	--	3.0	376	75	8	308
19J1	P1	Sd,G	10-26-60	--	.1	415	40	4	320
19J2	P1	G	10-24-60	--	1.0	400	40	4	324
19K1	P1	G	10-24-60	--	.5	386	40	4	308
20G1	P1	G	7-26-56	--	---	251	---	4	300
22B1	P1	G	10-14-60	54	1.5	395	10	4	264
22B2	P1	G	7-27-56	--	---	378	---	2	336
22B2	P1	G	8- 6-57	53	1.2	386	---	4	328
22G1	P1	G	10-14-60	--	1.0	376	30	4	264
23D1	P1	Sd,G	10-14-60	--	.3	371	20	4	272
24E1	P1	G	10-14-60	56	2.0	371	20	4	252
25Q1	P1	G	10-24-60	54	2.0	390	50	4	340
26D1	P1	Sd,G	10-24-60	--	2.0	429	20	4	312
27D1	P1	G	10-24-60	--	1.0	376	20	4	280
28A1	P1	Sd,G	10-24-60	--	.3	307	70	8	268
28E1	P1	G	10-21-57	56	3.5	312	---	4	252
28R1	P1	G	10-24-60	--	7.5	264	50	4	232
29M1	P1	Sd,G	10-14-60	--	1.0	395	30	4	300
30F1	P1	G	7-26-56	57	---	354	---	2	336
31F1	P1	G	10-24-60	--	2.0	376	30	4	292
31N1	P1	Sd	12-15-60	56	.5	307	50	4	276
32E1	P1	G	11- 7-57	57	2.0	244	---	20	208
32E2	P1	G,Sd	10-25-60	57	1.0	361	30	4	264
32Q1	P1	Sd	11- 4-57	59	1.3	281	---	24	312
32Q2	P1	G,Sd	10-28-60	--	3.0	395	45	4	308
32R1	P1	G,Sd	10-27-60	54	.3	351	50	8	304
33P1	P1	G,Sd	10-24-60	57	.1	415	35	8	356
34D1	P1	Sd,G	10-21-57	56	3.0	---	---	4	---
35K1	P1	G,Sd	10-21-57	56	1.5	351	---	4	296
35K1	P1	G,Sd	10-24-60	--	3.0	386	30	4	292
31/4- 5B1	P1	G	7-25-56	--	---	300	---	<2	312
9M1	P1	G	1- 5-61	59	3.0	439	25	4	332
16H1	P1	G	1- 5-61	--	1.5	429	10	4	300
18P1	P1	G	1- 5-61	59	4.0	454	5	<4	308
21G1	P1	Sd,G	12- 8-60	54	.3	425	100	12	440
29P1	P1	Sd	12- 8-60	58	.3	464	20	4	356
29Q1	P1	Sd,G	12- 8-60	54	3.0	483	20	4	368

Table 5.--Field chemical analyses of water from wells in Fulton County, Indiana--Continued

Well	Material	Geologic age	Date of collection	Temperature (°F)	Iron (Fe)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Hardness as CaCO <sub>3</sub> (Calcium, magnesium)	Remarks
31/4-31Q1	G	P1	7-26-56	55	----	368	-----	< 2	328	
31Q2	G,Sd	P1	7-26-56	--	----	368	-----	< 2	336	
31Q3	Sd,G	P1	7-19-56	--	----	361	-----	2	340	



Table 6.--Water levels in observation wells in Fulton County, Indiana  
(In feet below land-surface datum. Water level:  
e, estimated; h, tape measurement)

Fulton 1. (30/3-8B1). City of Rochester. In basement of City Hall. NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 8, T. 30 N., R. 3 E. Driven unused water-table well in sand and gravel, diameter 1 $\frac{1}{2}$  inches, depth 25 feet. Highest water level is 14.73 below lsd, Apr. 15, 1938; lowest 17.42 below lsd, Sept. 2, 1936. Records available: 1935-38.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1935		Aug. 1	17.12	May 15	14.84	Mar. 1	15.98
		15	17.25	June 1	16.21	15	15.78
Oct. 15	17.16	Sept. 2	17.42	15	16.19	Apr. 1	15.59
Nov. 2	17.24	15	17.20	July 1	16.20	15	14.73
Dec. 2	17.24	Oct. 1	16.90	15	16.18	May 2	15.87
3	17.21	15	16.70	Aug. 1	16.60	16	15.28
		Nov. 1	16.56	15	16.71	June 1	15.50
1936		15	16.54	Sept. 1	16.89	15	15.60
Jan. 15	17.20	Dec. 1	16.52	15	16.63	July 1	15.20
Feb. 1	17.16	15	16.48	Oct. 1	16.52	15	15.42
15	17.17			15	16.30	Aug. 1	15.69
Mar. 2	17.15	1937		Nov. 1	16.26	15	16.02
16	16.60	Jan. 2	16.44	15	16.24	Sept. 1	16.15
Apr. 1	16.42	15	15.91	Dec. 1	16.68	16	16.32
15	16.30	Feb. 2	15.68	15	16.47	Oct. 1	16.57
May 2	16.27	15	15.68	1938		15	16.83
15	16.22	Mar. 1	15.68	Jan. 1	16.67	Nov. 1	16.97
June 1	16.17	15	15.82	15	16.71	15	16.82
15	16.15	Apr. 1	15.94	Feb. 1	16.61	Dec. 1	16.91
July 1	16.16	15	16.10	15	16.32		
15	16.20	May 1	15.62				

Fulton 2. (30/3-8A1). City of Rochester. In water works building. NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 8, T. 30 N., R. 3 E. Driven unused water-table well in sand and gravel, diameter 1 $\frac{1}{2}$  inches, depth 42 feet. Highest water level is 4.06 below lsd, Apr. 15, 1938; lowest 8.67 below lsd, Sept. 15, 1937. Records available: 1936-38.

1936		July 1	7.95	1937		June 15	7.82
		15	7.69			July 1	7.85
Jan. 15	8.07	Aug. 1	7.60	Jan. 2	7.79	15	7.43
Feb. 1	8.34	15	8.65	15	7.18	Aug. 1	7.50
15	8.30	Sept. 2	8.14	Feb. 2	7.01	15	7.67
Mar. 2	6.98	15	8.55	15	6.90	Sept. 1	8.17
16	6.10	Oct. 1	8.05	Mar. 1	6.56	15	8.67
Apr. 1	7.65	15	7.95	15	6.34	Oct. 1	8.43
15	7.60	Nov. 1	7.91	Apr. 1	6.18	15	8.12
May 2	7.54	15	7.89	15	6.54	Nov. 1	8.01
15	7.74	Dec. 1	7.87	May 1	5.55	15	8.03
June 1	7.94	15	7.83	15	4.55	Dec. 1	7.96
15	7.90			June 1	7.86	15	7.91

Table 6.--Water levels in observation wells in Fulton County--Continued

Fulton 2--Continued

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1938		Apr. 1	5.01	Aug. 1	4.86	Nov. 1	7.88
		15	4.06	15	5.19	15	7.88
Jan. 1	7.84	May 2	6.70	Sept. 1	5.24	Dec. 1	7.81
15	7.80	16	5.40	16	5.62		
Feb. 1	7.81	June 1	6.39	Oct. 1	5.91		
15	7.55	15	6.40	15	7.06		
Mar. 1	7.18	July 1	4.45				
15	6.42	15	4.64				

Fulton 3. (30/3-9E1). City of Rochester. At Federal Fish Hatchery. SW $\frac{1}{4}$  NE $\frac{1}{4}$  sec. 9, T. 30 N., R. 3 E. Driven unused water-table well in sand and gravel, diameter 1 $\frac{1}{2}$  inches, depth 26 feet. Highest water level is 4.27 below 1sd, June 3, 1943; lowest 11.18 below 1sd, Jan. 15, 1944. Records available: 1935-47.

1935		Apr. 1	8.65	Apr. 1	9.2	Dec. 10	9.41
		15	6.27	May 1	7.08		
Oct. 17	10.24	May 5	5.84	June 1	7.37	1943	
Nov. 2	10.60	June 11	5.98	July 1	8.00	Jan. 4	8.84
15	10.48	July 2	6.60	Aug. 1	8.79	Feb. 2	9.30
Dec. 2	10.50	17	6.17	Sept. 1	8.82	Mar. 1	9.30
16	10.00	31	6.90	Oct. 1	9.18	Apr. 5	7.38
		Dec. 1	9.91	Nov. 1	10.55	May 1	5.20
1936				20	10.50	June 3	4.27
		1938		Dec. 1	10.60	July 5	5.97
Jan. 2	9.95	May 4	6.0			Aug. 2	6.88
16	9.36	June 1	7.4	1941		Sept. 6	7.27
Feb. 1	9.75	July 1	5.7	Jan. 1	10.41	Oct. 6	8.72
15	9.98	Sept. 1	8.6	Feb. 12	10.3	Nov. 1	9.00
Mar. 6	9.42			Mar. 12	10.33	15	9.05
17	9.70	1939		Apr. 9	6.34	Dec. 1	9.05
Apr. 16	7.64	Jan. 1	9.6	May 3	5.50	15	9.01
May 4	6.47	Feb. 1	9.4	June 3	6.45		
16	6.40	Mar. 1	8.3	Aug. 4	7.60	1944	
June 1	7.30	Apr. 1	8.3	Sept. 2	8.39	Jan. 1	9.26
18	8.00	May 1	7.45	Nov. 29	9.23	15	11.18
July 3	8.90	June 1	7.0	Nov. 3	9.72	Feb. 1	10.88
Nov. 18	9.63	Aug. 1	7.5			15	10.05
Dec. 1	10.00	21	7.98	1942		Mar. 1	8.06
17	10.16	Sept. 1	9.1	Feb. 9	7.32	15	7.77
		Oct. 20	9.83	June 11	6.78	Apr. 1	7.37
1937				July 2	6.31	10	8.81
Jan. 4	9.64	1940		Aug. 6	6.32	17	7.02
16	9.16	Feb. 1	11.10	Sept. 4	6.70	24	5.37
Feb. 1	9.27	Mar. 1	8.4	Oct. 1	7.48	May 1	5.79
16	9.48			Nov. 9	9.38	8	5.93
Mar. 2	9.56						

Table 6.--Water levels in observation wells in Fulton County--Continued

## Fulton 3--Continued

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1944		1945		Aug. 20	8.17	Apr. 15	8.09
				27	8.49	22	7.89
May 15	5.47	Jan. 1	10.40	Sept. 4	8.35	29	7.74
22	5.64	8	10.45	10	6.40	May 6	7.60
29	6.00	15	10.44	17	9.07	14	7.50
June 5	5.90	Feb. 5	10.52	24	9.09	June 17	6.91
12	6.38	12	10.41	Oct. 2	8.69	24	7.29
14	6.44	19	10.25	10	8.78	July 1	7.50
19	6.60	27	10.10	15	9.15	8	7.55
26	6.91	Mar. 5	10.00	22	9.23	15	7.67
July 3	6.98	12	9.74	29	9.21	23	7.88
10	7.06	19	9.71	Nov. 4	9.19	Aug. 5	8.00
17	7.08	26	8.69	14	9.23	12	8.20
24	7.21	Apr. 2	7.75	26	9.24	19	8.25
31	7.21	9	6.53	Dec. 3	9.21	26	8.40
Aug. 7	7.50	16	6.15	10	9.30	Sept. 9	8.90
14	8.00	23	5.67	17	9.40	30	8.95
21	8.20	30	5.61	1946		Oct. 21	8.92
28	8.21	May 7	5.24	Jan. 2	8.89	Nov. 4	8.79
Sept. 4	8.32	14	5.78	7	8.68	18	8.89
18	8.84	22	4.80	Feb. 4	8.99	Dec. 2	8.90
25	9.33	28	5.58	11	8.77	9	8.76
Oct. 4	9.27	June 4	5.89	18	7.96	23	8.72
9	9.17	11	6.31	26	8.40	31	8.50
23	9.58	18	5.96	Mar. 4	8.37	1947	
Nov. 3	10.25	25	6.10	11	8.30	Jan. 2	8.12
6	10.25	July 2	6.41	18	7.50	Feb. 10	8.56
20	10.14	9	6.76	25	8.30	24	8.80
27	10.28	16	7.23	Apr. 1	8.29	Mar. 3	8.99
Dec. 5	10.42	24	7.50	8	8.40		
11	10.40	30	7.59				
18	10.42	Aug. 6	7.37				
26	10.45	13	7.72				

Fulton 5. (30/3-5L1). Forest Farm Products, Fulton St., Rochester. NE $\frac{1}{4}$  SW $\frac{1}{4}$  sec. 5, T. 30 N., R. 3 E. Drilled unused water-table (?) well in sand and gravel, diameter 6 inches, depth 64 feet. Highest water level is 8.16 below 1sd, Aug. 2, 1960; lowest 12.71 below 1sd, Feb. 8, 1956. Records available: 1956-60.

1956		Mar. 20	12.30	May 18	10.26	July 11	11.44
		27	12.20	22	10.25	20	11.50
Feb. 8	12.71	Apr. 5	12.20	28	10.31	27	11.60
15	12.63	13	11.86	June 7	10.69	Aug. 1	11.70
22	12.60	20	11.86	14	10.91	9	11.83
29	12.49	26	11.86	21	10.97	15	12.00
Mar. 6	12.60	May 2	11.41	25	10.97	23	12.08
13	12.40	9	11.21	July 2	11.29	29	11.70
						Sept. 7	11.90

Table 6.--Water levels in observation wells in Fulton County--Continued

Fulton 5--Continued

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1957		Oct. 1	8.75	June 12	8.70	Mar. 8	10.06
		8	8.85	19	8.70	15	10.05
Apr. 15	12.26	14	8.90	26	8.75	22	10.04
June 14	11.73	24	9.00	July 3	9.00	29	10.02
17	11.33	29	9.10	11	9.08	Apr. 8	9.92
21	11.83	Nov. 5	9.15	18	9.17	13	9.90
July 26	11.47	12	9.30	24	9.20	21	9.81
Aug. 9	11.80	19	9.40	31	9.28	27	9.65
10	11.92	26	9.20	Aug. 7	9.50	May 5	9.51
24	10.35	Dec. 2	9.40	15	9.50	12	9.40
Sept. 10	10.11	10	9.45	22	9.70	19	9.25
20	10.20	17	9.50	30	9.87	25	9.04
21	9.96	22	9.54	Sept. 6	9.99	June 1	8.90
		29	9.66	11	10.06	7	8.70
1958				19	10.16	15	8.84
		1959		26	10.28	23	8.79
Feb. 28	9.93			Oct. 3	10.34	July 1	8.80
Mar. 28	9.95	Jan. 5	9.70	10	10.35	8	8.79
Apr. 11	9.92	12	9.73	19	10.30	16	8.84
18	9.92	20	9.79	25	10.40	25	8.34
May 5	9.94	26	9.65	30	10.47	Aug. 2	8.16
22	10.03	Feb. 3	9.64	Nov. 5	10.42	11	8.51
28	10.07	10	9.60	11	10.44	18	8.72
June 5	10.11	18	9.20	18	10.42	25	8.80
12	9.80	24	9.17	24	10.42	Sept. 2	9.28
21	9.10	Mar. 2	9.15	30	10.40	9	9.53
26	9.05	9	9.10	Dec. 11	10.42	16	9.60
July 5	8.92	16	9.07	24	10.41	23	9.72
9	8.92	21	9.02	30	10.44	28	9.80
18	8.83	26	9.04			Oct. 4	9.87
24	8.78	Apr. 3	9.02	1960		12	10.01
31	8.78	11	8.88			20	10.11
Aug. 7	8.80	18	8.88	Jan. 4	10.45	27	10.20
14	8.80	29	8.79	9	10.33	Nov. 3	10.23
20	8.80	May 5	8.72	16	10.30	10	10.40
26	8.79	13	8.70	23	10.25	16	10.43
Sept. 4	8.72	19	8.60	30	10.25	23	10.45
13	8.75	25	8.64	Feb. 5	10.15	30	10.52
23	8.70	June 2	8.70	12	10.05	Dec. 7	10.55
				19	10.05	14	10.60
				27	10.06	21	10.65
						28	10.68

Table 6.--Water levels in observation wells in Fulton County--Continued

Fulton 6. (30/1-27D1). Winamac Coil Spring Corp. Kewanna. NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 27, T. 30 N., R. 1 E. Drilled unused artesian well in sand and gravel, diameter 10 inches, depth 117 feet. Recorder installed May 9, 1956, removed May 13, 1957. Highest water level is 20.40 below lsd, May 14, 1960; lowest 25.20 below lsd, Jan. 2, 1957 and Dec. 23, 1960. Records available: 1956-60. Affected by nearby pumping and by trains.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1956(1/)		Oct. 30	24.05	1958		Oct. 25	22.65
		31	24.00			Nov. 1	23.00
May 11	20.71	Nov. 1	24.05	Jan. 3	22.10	8	23.10
12	20.56	2	24.15	10	22.15	15	23.15
13	20.45	3	24.30	18	22.30	22	23.00
July 7	21.51	Dec. 28	24.56	25	22.20	29	22.95
8	21.44	29	24.78	Feb. 1	22.40	Dec. 6	23.10
9	21.47	30	24.55	8	22.52	13	23.00
10	21.68	31	24.58	15	22.60	20	23.00
11	21.75			22	22.90	27	23.33
12	21.72	1957		Mar. 1	23.10		
13	21.67			8	23.05	1959	
29	22.15	Jan. 1	25.01	15	22.85	Jan. 3	23.00
30	22.20	2	e25.10	22	22.63	10	23.30
31	22.15	May 9	22.05	29	22.95	17	23.15
Aug. 1	22.15	10	22.01	Apr. 5	23.00	24	23.15
2	22.20	11	22.06	12	23.12	30	23.40
3	22.20	12	22.14	19	22.80	Feb. 7	23.10
4	22.15	Aug. 17	23.36	26	22.95	14	22.60
5	22.10	24	23.51	May 3	23.05	21	22.65
6	22.20	31	23.53	10	23.20	28	22.70
7	22.30	Sept. 7	23.80	17	23.40	Mar. 7	22.35
8	22.35	14	24.00	24	23.45	14	22.10
9	22.30	21	24.89	31	23.40	21	22.05
10	22.35	28	24.37	June 7	23.60	28	21.70
11	22.35	Oct. 4	24.40	14	21.95	Apr. 4	21.80
Sept. 7	23.25	12	24.44	21	21.05	11	21.60
8	23.25	19	24.40	28	20.95	18	21.20
9	23.20	26	24.30	July 5	20.90	25	21.25
10	23.00	Nov. 2	24.36	12	21.00	May 2	20.90
11	23.00	9	24.36	19	20.80	9	20.70
12	23.05	16	24.12	26	20.70	16	20.90
28	h23.66	23	23.90	Aug. 15	21.30	23	21.10
Oct. 23	24.00	30	23.76	Sept. 6	22.00	30	21.35
24	24.15	Dec. 7	23.18	13	21.95	June 6	21.50
25	24.00	14	23.39	20	21.90	13	21.75
26	23.95	21	22.90	27	22.00	20	21.95
27	24.20	28	h22.20	Oct. 4	22.25	27	22.10
28	24.15			11	22.50	July 3	22.45
29	24.15			18	22.45		

1/ Daily highest water level from recorder graph from May 11, 1956 through May 12, 1957.

Table 6.--Water levels in observation wells in Fulton County--Continued

Fulton 6--Continued

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1959		Nov. 14	24.05	Mar. 12	22.10	Aug. 5	22.60
			21	19	22.20	12	22.70
July 11	22.75		28	26	22.15	19	22.75
18	22.60	Dec. 4	23.50	Apr. 2	21.90	26	23.05
24	23.10		12	9	21.38	Sept. 2	23.28
Aug. 1	23.35		19	16	20.90	9	23.40
8	23.40		26	23	20.55	16	23.64
15	23.55			30	20.60	23	23.61
22	23.60	1960		May 7	20.90	30	23.84
29	23.75			14	20.40	Oct. 7	23.90
Sept. 5	23.90	Jan. 2	22.95	21	20.90	14	24.07
12	24.10		9	28	21.00	21	24.28
19	24.45		16	June 4	21.10	28	24.41
26	24.25		23	11	21.40	Nov. 4	24.68
Oct. 6	24.50		30	18	21.60	11	24.58
10	24.60	Feb. 6	22.55	24	21.40	18	24.62
17	24.40		13	July 1	21.80	25	24.62
24	23.95		19	8	21.75	Dec. 2	24.90
31	24.10		26	15	22.00	16	25.10
Nov. 2	24.65	Mar. 5	22.05	22	22.10	23	25.20
				29	22.25	30	25.04

PUBLICATIONS OF COOPERATIVE GROUND-WATER PROGRAM

Report

Ground-water resources of the Indianapolis area, Marion County, Indiana. C. L. McGuinness. Indiana Department of Conservation, Division of Geology. 1943.

Bulletins

- No. 1 Memorandum concerning a pumping test at Gas City, Indiana. J. G. Ferris, Indiana Department of Conservation, Division of Water Resources. 1945.
- 2 A preliminary report of ground-water levels of the State based on records of twenty-six observation wells for which long time records are available. Indiana Department of Conservation, Division of Water Resources. 1946 (Out of print).
- 3 Ground-water resources of St. Joseph County, Indiana. Part 1, South Bend area. F. H. Klaer, Jr., and R. W. Stallman. Indiana Department of Conservation, Division of Water Resources. 1948.
- 4 Ground-water resources of Boone County, Indiana. E. A. Brown. Indiana Department of Conservation, Division of Water Resources. 1949.
- 5 Ground-water resources of Noble County, Indiana. R. W. Stallman and F. H. Klaer, Jr. Indiana Department of Conservation, Division of Water Resources. 1950.
- 7 Water-level records of Indiana. Indiana Department of Conservation, Division of Water Resources. 1956.
- 8 Ground-water resources of Tippecanoe County, Indiana. Appendix, Basic Data. J. S. Rosenshein and O. J. Cosner. Indiana Department of Conservation, Division of Water Resources. 1956.
- 8 Ground-water resources of Tippecanoe County, Indiana. J. S. Rosenshein. Indiana Department of Conservation, Division of Water Resources. 1958 (1959).
- 9 Ground-water resources of Adams County, Indiana. F. A. Watkins, Jr., and P. E. Ward. Indiana Department of Conservation, Division of Water Resources. 1962.
- 10 Ground-water resources of northwestern Indiana. Preliminary Report: Lake County. J. S. Rosenshein. Indiana Department of Conservation, Division of Water Resources. 1961.
- 11 Ground-water resources of west-central Indiana. Preliminary Report: Greene County. F. A. Watkins, Jr., and D. G. Jordan. Indiana Department of Conservation, Division of Water Resources. 1961.

Publications of cooperative ground-water programs--Continued

Bulletins--Continued

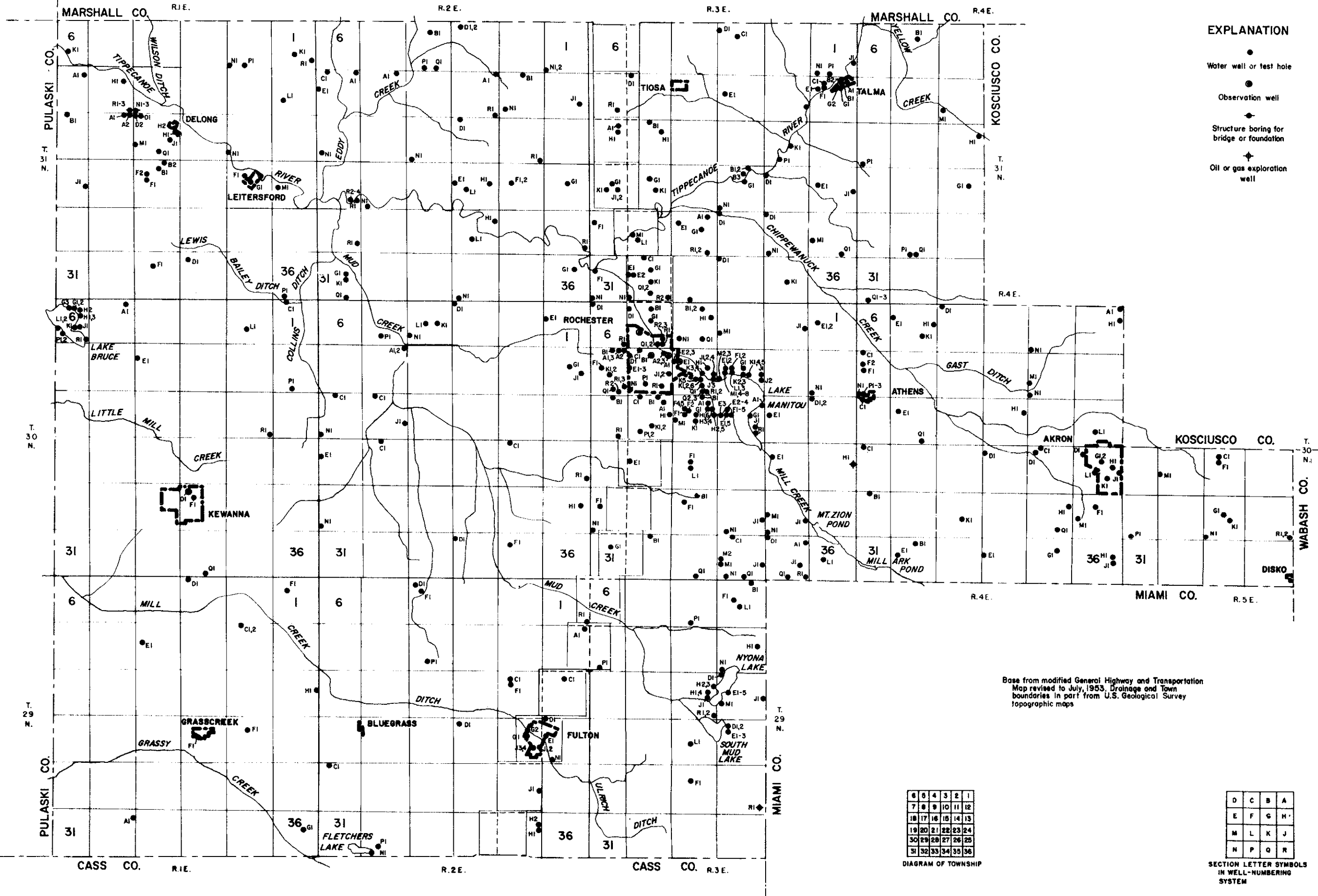
- 12 Ground-water resources of northwestern Indiana. Preliminary Report: Porter County. J. S. Rosenshein. Indiana Department of Conservation, Division of Water Resources. 1962.
- 13 Ground-water resources of northwestern Indiana. Preliminary Report: La Porte County. J. S. Rosenshein and J. D. Hunn. Indiana Department of Conservation, Division of Water Resources. 1962.
- 14 Ground-water resources of west-central Indiana. Preliminary Report: Sullivan County. F. A. Watkins, Jr., and D. G. Jordan. Indiana Department of Conservation, Division of Water Resources. 1962.
- 15 Ground-water resources of northwestern Indiana. Preliminary Report: St. Joseph County. J. S. Rosenshein and J. D. Hunn. Indiana Department of Conservation, Division of Water Resources. 1962.
- 16 Ground-water resources of west-central Indiana. Preliminary Report: Clay County. F. A. Watkins, Jr., and D. G. Jordan. Indiana Department of Conservation, Division of Water Resources. 1962.
- 17 Ground-water resources of west-central Indiana. Preliminary Report: Vigo County. F. A. Watkins, Jr., and D. G. Jordan. Indiana Department of Conservation, Division of Water Resources. 1963.
- 18 Ground-water resources of west-central Indiana. Preliminary Report: Owen County. F. A. Watkins, Jr., and D. G. Jordan. Indiana Department of Conservation, Division of Water Resources. 1963.
- 19 Ground-water resources of northwestern Indiana. Preliminary Report: Marshall County. J. S. Rosenshein and J. D. Hunn. Indiana Department of Conservation, Division of Water Resources. 1964.
- 20 Ground-water resources of northwestern Indiana. Preliminary Report: Fulton County. J. S. Rosenshein and J. D. Hunn. Indiana Department of Conservation, Division of Water Resources. 1964.



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EXPLANATION

- Water well or test hole
- Observation well
- ◆ Structure boring for bridge or foundation
- ◆ Oil or gas exploration well

Base from modified General Highway and Transportation Map revised to July, 1953, Drainage and Town boundaries in part from U.S. Geological Survey topographic maps

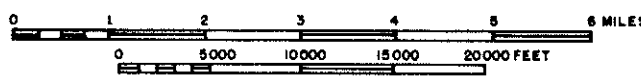
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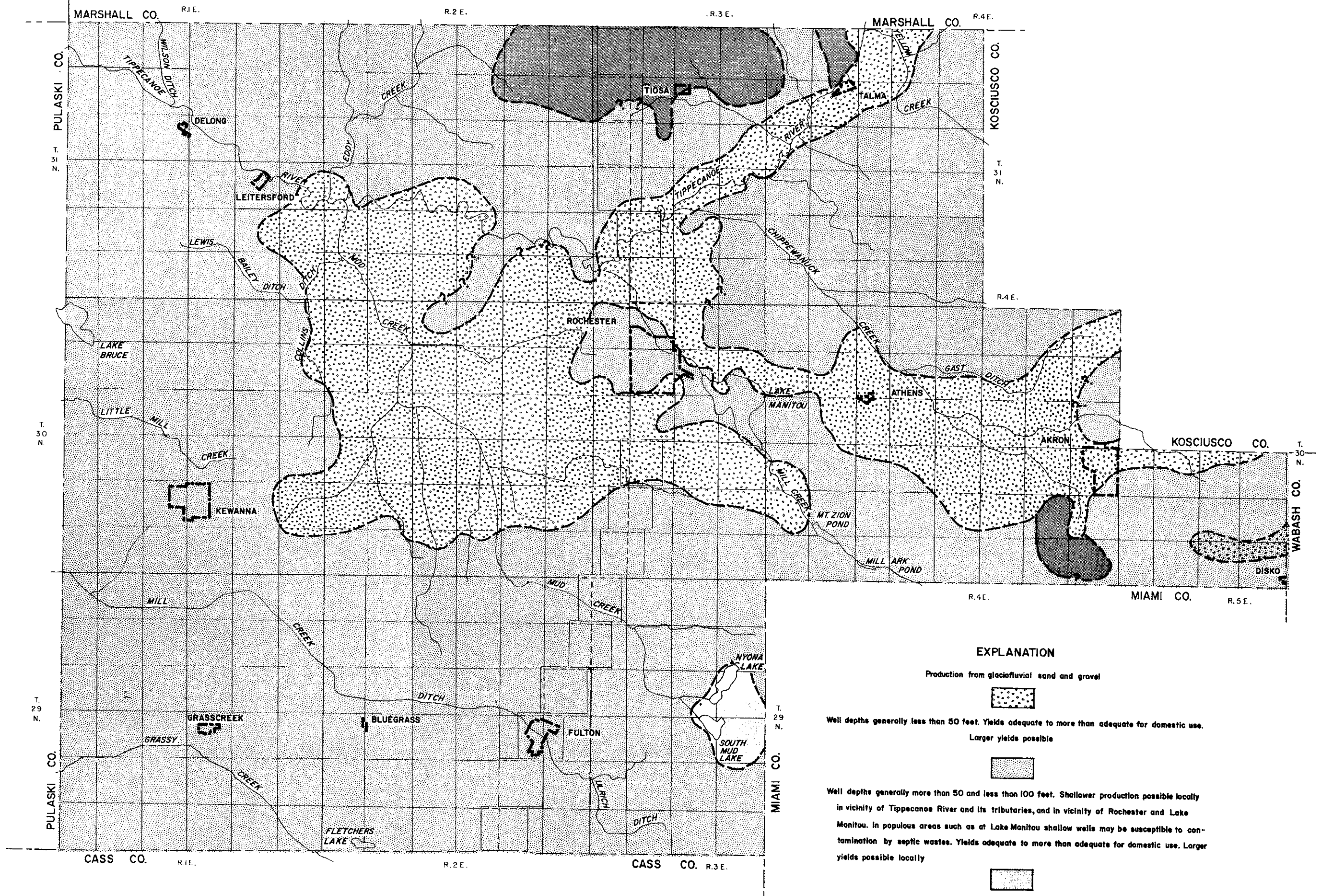
DIAGRAM OF TOWNSHIP

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R


SECTION LETTER SYMBOLS IN WELL-NUMBERING SYSTEM

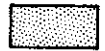
MAP OF FULTON COUNTY, INDIANA, SHOWING LOCATION OF WELLS AND TEST HOLES







EXPLANATION

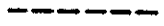
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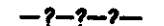
Production from glaciofluvial sand and gravel  
Well depths generally less than 50 feet. Yields adequate to more than adequate for domestic use. Larger yields possible
- 

Well depths generally more than 50 and less than 100 feet. Shallower production possible locally in vicinity of Tippecanoe River and its tributaries, and in vicinity of Rochester and Lake Manitou. In populous areas such as at Lake Manitou shallow wells may be susceptible to contamination by septic wastes. Yields adequate to more than adequate for domestic use. Larger yields possible locally
- 

Well depths generally more than 30 feet and less than 150 feet. Production from several shallow and deep sand and gravel units. Yields adequate to more than adequate for domestic use. Larger yields possible
- 

Well depths generally more than 100 feet and less than 150 feet. Yields adequate to more than adequate for domestic use. Larger yields possible

- 

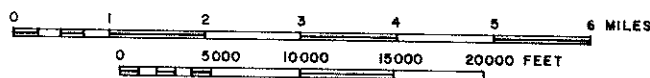
Boundary approximate
- 

Boundary uncertain

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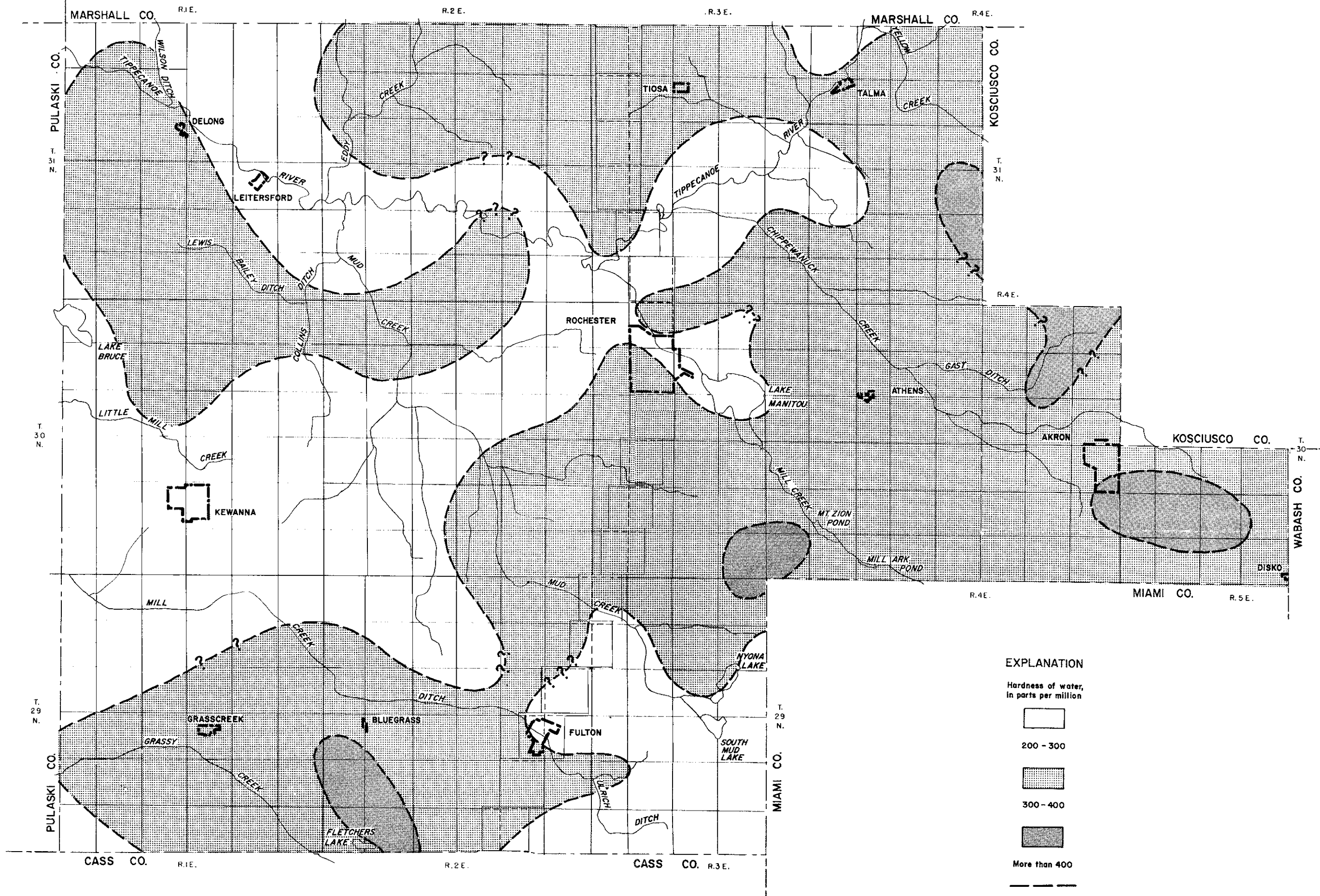
DIAGRAM OF TOWNSHIP

MAP OF FULTON COUNTY, INDIANA SHOWING  
AVAILABILITY OF GROUND WATER



By J. S. Rosenzhein and J. D. Hunn  
1961

Base from modified General Highway and Transportation  
Map revised to July 1953. Drainage and Town  
boundaries in part from U.S. Geological Survey  
topographic maps

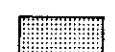


EXPLANATION

Hardness of water,  
in parts per million



200 - 300

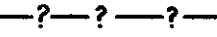


300 - 400

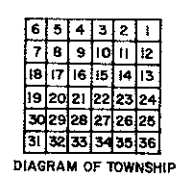


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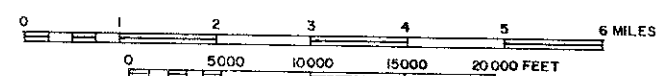
Boundary approximate



Boundary uncertain



MAP OF FULTON COUNTY, INDIANA, SHOWING HARDNESS OF  
WATER IN SAND AND GRAVEL OF PLEISTOCENE AGE



By J. S. Rosenhein and J. D. Hunn  
1961

Base from modified General Highway and Transportation  
Map revised to July, 1953. Drainage and Town  
boundaries in part from U.S. Geological Survey  
topographic maps