

Table 5.--Selected well logs, Fountain County, Indiana--Cont.

Well 20/7W-26R1

Type of record: Driller's log.

Altitude: About 690 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, sandy, yellow-----	15	15	
Clay, sandy, brown-----	5	20	
Sand-----	2	22	
Clay, sandy-----	10	32	
Mississippian System:			
Osage Series:			
Clay and soft shale-----	13	45	
Shale and sandstone-----	9	54	
Sandstone-----	25	79	W. B.

Well 20/7W-33R1

Type of record: Driller's log.

Altitude: About 665 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Soil-----	2	2	
Clay, yellow-----	14	16	
Spongy material, gray-----	4	20	
Sand, yellow-----	11	31	Little water
Clay, hard, gray-----	15	46	
Clay, sandy, soft-----	19	65	
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Sandstone, brown-----	9	74	
Sandstone, soft, white-----	18	92	W. B.

Well 20/8W-1D1

Type of record: Driller's log.

Altitude: About 660 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Soil, gray-----	3	3	
Clay, yellow-----	14	17	
Clay, soft, gray-----	14	31	
Hardpan, sandy, brown-----	2	33	
Hardpan, gray-----	19	52	
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Sandstone, soft, brown-----	4	56	
Sandstone, hard, brown-----	26	82	W. B.

Table 5.--Selected well logs, Fountain County, Indiana--Cont.

Well 20/8W-2P1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Gravel, sandy, clayey-----	30	30	
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Sandstone-----	20	50	W. B.
Shale, sandy-----	5	55	

Well 20/8W-4D1

Type of record: Driller's log. Altitude: About 600 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, sandy, hard, brown-----	79	79	
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Sandstone-----	81	160	
Mississippian System:			
Osage Series:			
Shale-----	100	260	
Sandstone-----	23	283	
Shale-----	65	348	
Sandstone-----	50	398	
Shale-----	5	403	

Well 20/8W-17A1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Top soil-----	1	1	
Clay, yellow-----	8	9	
Clay, sandy, yellow-----	13	22	
Sand and clay, hard-----	22	44	
Dirt, sandy, brown-----	41	85	Sandy silt?
Sand, hard-----	2	87	Gas.

Well 20/8W-18N1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Soil, dark-gray-----	4	4	
Clay, hard, yellow-----	12	16	
Hardpan, hard, gray-----	23	39	
Hardpan, hard, brown-----	8	47	
Hardpan, hard, gray-----	26	73	
Hardpan, hard and soft, brown---	13	86	

Table 5.--Selected well logs, Fountain County, Indiana--Cont.

Well 20/8W-18N1--Cont.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Hardpan, hard spots, gray-----	16	102	
Shale, medium-soft, gray-----	32	134	Clay?
Sand and gravel-----	1	135	W. B.; gas
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Shale, hard, gray-----	18	153	
Sandstone, hard, brown-----	8	161	
Shale, hard, gray-----	18	179	
Sandstone, soft, white-----	9	188	W. B.

Well 20/8W-23B1

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

Quaternary System:			
Recent and Pleistocene Series:			
Soil, dark-----	4	4	
Hardpan, yellow-----	15	19	
Hardpan, brown-----	8	27	
Gravel, gray-----	2	29	
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Shale, gray-----	32	61	
Shale, black-----	8	69	
Sandstone-----	6	75	
Shale, black-----	7	82	
Sandstone-----	10	92	W. B.

Well 20/8W-26R1

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

Dug well-----	44	44	
Quaternary System:			
Recent and Pleistocene Series:			
Gravel-----	2	46	
Clay-----	2	48	
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Sandstone-----	15	63	W. B.

Well 20/8W-28H1

Type of record: Driller's log. Altitude: About 650 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Loam, black-----	4	4	
Clay, yellow-----	10	14	
Gravel, fine-----	6	20	

Table 5.--Selected well logs, Fountain County, Indiana--Cont.

Well 20/8W-28H1--Cont.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Sandstone, shelly-----	5	25	
Slate, blue-----	5	30	
Slate, black-----	6	36	
Sandstone, white-----	62	98	W. B.
Shale, blue-----	3	101	
Shale, gray-----	4	105	
Limestone, broken, gray-----	17	122	
Slate, black-----	13	135	
Limestone, gray-----	8	143	
Shale, blue-----	4	147	T. D. 2,590 ft

Well 20/8W-28Q1

Type of record: Driller's log.

Altitude: About 635 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Drift-----	28	28	
Shale, sandy-----	3	31	Sandy clay?
Sand, heavy-----	29	60	
Quicksand-----	40	100	
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Slate, blue-----	3	103	
Shale, sandy-----	17	120	
Limestone, broken-----	30	150	
Sandstone-----	10	160	W. B.; T. D. 1,807 ft

Well 20/8W-29N1

Type of record: Driller's log.

Altitude: 620 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Top soil and clay-----	2.5	2.5	
Gravel and clay-----	2.5	5	
Gravel and sand with mud balls---	2	7	
Clay, gritty-----	2	9	
Sand, loose, and clay balls-----	1	10	
Clay, sandy-----	4	14	
Quicksand-----	26	40	W. B.
Sand, fine, and boulders-----	5	45	W. B.
Quicksand-----	1.5	46.5	W. B.
Clay-----	1.5	48	
Quicksand-----	2	50	W. B.
Clay and gravel strips-----	4	54	
Clay, gritty-----	8	62	
Clay, green, some grit-----	37	99	

Table 5.--Selected well logs, Fountain County, Indiana--Cont.

Well 20/8W-29N1--Cont.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Sandstone, soft-----	10	109	W. B.
Shale, blue-----	5	114	

Well 20/8W-30Q1

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	19	19	W. B.
Gravel-----	2	21	
Hardpan-----	11	32	
Sand-----	80	112	
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Sandstone-----	3	115	W. B.

Well 20/8W-31C1

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	15	15	Cemented gravel?
Sand, fine-----	16	31	
Limestone, sandy, hard, light- brown-----	5	36	
Hardpan-----	2	38	
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Sandstone, gray-----	22	60	W. B.
Shale, gray-----	12	72	
Shale, blue-----	48	120	
Shale, light-gray-----	9	129	
Sandstone-----	31	160	

Well 20/8W-31M1

Type of record: Driller's log from memory. Altitude: About 595 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Record missing-----	62	62	W. B.
Sand-----	2	64	
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Shale-----	4	68	W. B.
Sandstone-----	22	90	

Table 5.--Selected well logs, Fountain County, Indiana--Cont.

Well 20/8W-32L1

Type of record: Driller's log.		Altitude: About 615 feet.	
Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Hardpan-----	75	75	
Sand-----	1	76	
Hardpan-----	27	103	
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Sandstone-----	19	122	W. B.

Well 20/8W-33C1

Type of record: Driller's log.		Altitude: About 645 feet.	
Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	10	10	
Clay, sandy-----	5	15	
Clay and sand, blue-----	31	46	
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Shale, sandy-----	84	130	W. B.

Well 20/8W-34L1

Type of record: Driller's log.		Altitude: About 670 feet.	
Quaternary System:			
Recent and Pleistocene Series:			
Soil and clay-----	10	10	
Sand and gravel-----	20	30	
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Sandstone, broken-----	18	48	
Sandstone, gray-----	32	80	W. B.

Well 20/8W-35P1

Type of record: Driller's log.		Altitude: About 695 feet.	
Dug well-----	23	23	
Quaternary System:			
Recent and Pleistocene Series:			
Sand and clay, yellow-----	10	33	
Clay, blue-----	45	78	
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Shale, gray-----	82	160	
Shale, dark-----	30	190	

Table 5.--Selected well logs, Fountain County, Indiana--Cont.

Well 20/8W-35P1--Cont.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Mississippian? System:			
Osage? Series:			
Shale and fragments of sandstone-	30	220	
Shale, gray-----	40	260	
Shale, sandy-----	36	296	
Shale, gritty-----	87	383	
Shale-----	17	400	

Well 20/8W-35R1

Type of record: Driller's log.		Altitude: About 690 feet.	
Dug well-----	15	15	
Quaternary System:			
Recent and Pleistocene Series:			
Hardpan-----	25	40	
Gravel-----	5	45	Dry
Clay, sandy-----	25	70	
Pennsylvanian? System:			
Lower Pennsylvanian? Series:			
Shale-----	115	185	W. B.

Well 20/9W-14D1

Type of record: Driller's log.		Altitude: About 515 feet.	
Quaternary System:			
Recent and Pleistocene Series:			
Clay and boulders-----	15	15	
Sand, fine-----	35	50	
Muck, soft, broken-----	5	55	
Sand, fine-----	57	112	
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Sandstone-----	18	130	
Sandstone-----	--	130	W. B.

Well 20/9W-25H1

Type of record: Driller's log.		Altitude: About 620 feet.	
Dug well-----	47	47	
Quaternary System:			
Recent and Pleistocene Series:			
Clay, gravelly-----	88	135	
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Sandstone-----	22	157	Little water
Shale, heavy-----	16	173	
Shale, sandy-----	8	181	
Shale, heavy, gray-----	42	223	
Sandstone, brown-----	3	226	

Table 5.--Selected well logs, Fountain County, Indiana--Cont.

Well 20/9W-25H1--Cont.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Sandstone, light-gray-----	14	240	
Sandstone, white-----	3	243	W. B.

Well 20/9W-25K1

Type of record: Driller's log.		Altitude: About 605 feet.	
Quaternary System:			
Recent and Pleistocene Series:			
Hardpan-----	50	50	
Gravel-----	1	51	W. B.
Hardpan-----	50	101	
Gravel-----	1	102	Gas

Well 20/9W-35H1

Type of record: Driller's log from memory.		Altitude: About 555 feet.	
Quaternary System:			
Recent and Pleistocene Series:			
Soil, sandy-----	10	10	
Boulders-----	3	13	
Gravel-----	53	66	W. B. 24 to 66 ft
Clay, blue-----	--	66	

Well 20/9W-35H2

Type of record: Driller's log.		Altitude: About 550 feet.	
Quaternary System:			
Recent and Pleistocene Series:			
Gravel-----	40	40	Dry
Gravel and hardpan-----	45	85	
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Sandstone and shale-----	155	240	W. B.
Sandstone-----	15	255	

Well 20/9W-36B1

Type of record: Driller's log.		Altitude: About 610 feet.	
Quaternary System:			
Recent and Pleistocene Series:			
Top soil and yellow clay-----	6	6	
Gravel and sand with clay-----	6	12	
Clay, gray and blue-----	11	23	
Clay, gravelly, hard-----	2	25	
Sand and boulders, muddy-----	1	26	W. B. 25 to 39 ft
Sand and gravel, coarse, with mud balls-----	9	35	

Table 5.--Selected well logs, Fountain County, Indiana--Cont.

Well 20/9W-36B1--Cont.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand, medium, yellow-----	3	38	Very muddy
Sand, yellow, with mud balls-----	1	39	Muddy
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Shale, blue-----	18	57	
Limestone, brown-----	2	59	W. B.

Well 20/9W-36G1

Type of record: Driller's log. Altitude: About 610 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Hardpan-----	30	30	
Sand-----	3	33	
Hardpan-----	20	53	
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Shale-----	5	58	
Sandstone-----	39	97	W. B.
Shale, sandy-----	14	111	

Well 21/7W-5K1

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	15	15	
Sand and gravel-----	43	58	Dry
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Sandstone-----	25	83	W. B.

Well 21/7W-6G2

Type of record: Driller's log. Altitude: About 515 feet.

Cinder fill-----	16	16	
Quaternary System:			
Recent and Pleistocene Series:			
Clay, blue-----	6	22	
Sand, red, and hardpan-----	13	35	
Sand and gravel-----	17	52	W. B.
Clay, dark-blue-----	16	68	
Sand-----	7	75	W. B.
Sand and gravel, coarse-----	30	105	W. B.
Sand and gravel, small-----	20	125	W. B.

Table 5.--Selected well logs, Fountain County, Indiana--Cont.

Well 21/7W-6L1

Type of record: Driller's log.

Altitude: About 510 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Top soil-----	3	3	
Sand and red clay-----	29	32	
Gravel, red-----	10	42	Dry
Clay, blue-----	21	63	
Gravel, blue-----	11	74	W. B. 63 to 116 ft
Gravel, red-----	30	104	
Sand-----	10	114	
Gravel and sand-----	2	116	
Mississippian System:			
Osage Series:			
Limestone-----	60	176	
Shale-----	6	182	
Limestone and shale-----	11	193	

Well 21/7W-7C1

Type of record: Driller's log.

Altitude: About 565 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Cement and gravel-----	2	2	
Clay-----	6	8	
Sand and gravel-----	4	12	
Sand, gravel, and some clay-----	8	20	
Gravel-----	34	54	
Gravel, coarse, and boulders-----	2	56	
Sand, fine-----	14	70	
Sand and gravel-----	22	92	W. B. 70 to 157.5 ft
Sand, very fine-----	27	119	
Sand, fine, sharp, clean-----	7	126	
Sand and small gravel streaks-----	10	136	
Sand and gravel-----	3	139	
Sand and small gravel-----	3	142	
Sand and gravel-----	15.5	157.5	

Well 21/7W-8A1

Type of record: Driller's log.

Altitude: About 680 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, sandy, yellow-----	20	20	
Clay, blue-----	17	37	
Gravel, sandy, dirty-----	2	39	

Table 5.--Selected well logs, Fountain County, Indiana--Cont.

Well 21/7W-8A1--Cont.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Shale, black-----	21	60	W. B.
Sandstone-----	20	80	
Mississippian System:			
Osage Series:			
Shale, gray-----	1	81	

Well 21/7W-14C1

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

Quaternary System:			
Recent and Pleistocene Series:			
Top soil and yellow clay-----	20	20	
Clay, sandy, gray-----	10	30	
Hardpan-----	30	60	
Clay, sandy, gray-----	37	97	
Clay, sandy, and sand, green-----	25	122	
Sand, yellow-----	6	128	
Mississippian System:			
Osage Series:			
Shale-----	10	138	W. B.

Well 21/7W-14D1

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

Quaternary System:			
Recent and Pleistocene Series:			
Top soil-----	3	3	
Clay and large boulders-----	12	15	
Clay, gravelly, hard-----	5	20	
Clay, blue-----	20	40	
Clay, blue, and hardpan-----	11	51	
Sand and gravel-----	3	54	W. B.

Well 21/7W-18C1

Type of record: Driller's log. Altitude: About 595 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Gravel and sand-----	42	42	
Mississippian System:			
Osage Series:			
Shale and limestone, hard, dark--	40	82	
Sandstone, white-----	16	98	W. B.

Table 5.--Selected well logs, Fountain County, Indiana--Cont.

Well 21/7W-19J1

Type of record: Driller's log.

Altitude: About 645 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Top soil-----	4	4	Dry
Gravel-----	28	32	
Mississippian System:			
Osage Series:			
Shale-----	8	40	W. B.
Sandstone and streaks of shale---	10	50	
Sandstone-----	25	75	
Sandstone and streaks of shale---	5	80	

Well 21/7W-19R1

Type of record: Driller's log.

Altitude: About 640 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Gravel-----	15	15	Dry
Hardpan-----	10	25	
Mississippian System:			
Osage Series:			
Sandstone-----	1.5	26.5	W. B.
Shale-----	20.5	47	
Sandstone-----	8	55	
Shale, gray-----	8	63	

Well 21/7W-30H2

Type of record: Driller's log.

Altitude: About 635 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, sandy-----	6	6	Dry
Gravel-----	19	25	
Hardpan-----	60	85	W. B.
Gravel and sand-----	9	94	

Well 21/7W-30H3

Type of record: Driller's log.

Altitude: About 635 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Dirt-----	3	3	Dry
Sand and gravel-----	29	32	
Clay, sandy-----	18	50	
Hardpan and clay-----	42	92	
Gravel-----	1	93	
Clay, sandy-----	9	102	
Sand-----	2	104	
Clay, blue-----	12	116	
Sand-----	1	117	

Table 5.--Selected well logs, Fountain County, Indiana--Cont.

Well 21/7W-30H3--Cont.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Mississippian System: Osage Series: Shale and streaks of sandstone---	54	171	W. B.

Well 21/7W-30H4

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

Quaternary System:			
Recent and Pleistocene Series:			
Soil, sandy-----	2	2	
Gravel-----	38	40	Dry
Sand, dirty, and soft yellow clay, with wood-----	30	70	Some water
Hardpan, gray-----	70	140	
Sand, gray, and wood bark-----	20	160	
Sand, brown-----	2	162	
Sand-----	2	164	Gas
Quicksand and wood-----	8	172	Gas
Mississippian System:			
Osage Series:			
Sandstone, grainy, solid-----	2	174	W. B.

Well 21/7W-31M1

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

Quaternary System:			
Recent and Pleistocene Series:			
Gravel-----	22	22	
Hardpan, gray-----	16	38	
Quicksand-----	3	41	
Mississippian System:			
Osage Series:			
Shale, broken, blue-----	5	46	
Sandstone-----	2	48	
Sandstone-----	12	60	W. B.

Well 21/7W-36E1

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

Quaternary System:			
Recent and Pleistocene Series:			
Clay-----	15	15	
Sand-----	5	20	
Mississippian System:			
Osage Series:			
Sandstone-----	5	25	
Sandstone, solid-----	38	63	W. B.

Table 5.--Selected well logs, Fountain County, Indiana--Cont.

Well 21/8W-26D1

Type of record: Driller's log. Altitude: About 570 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Sand-----	4	4	
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Sandstone-----	38	42	
Coal-----	1	43	
Sandstone-----	46	89	

Well 21/8W-32H1

Type of record: Driller's log. Altitude: About 510 feet.

Quaternary System:			
Recent and Pleistocene Series:			
Sand, soft, yellow-----	8	8	
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Sandstone, hard, brown-----	20	28	
Sandstone, hard, white-----	22	50	
Sandstone, hard, white-----	10	60	W. B.

Well 21/8W-33E1

Type of record: Driller's log. Altitude: About 520 feet.

Pennsylvanian System:			
Lower Pennsylvanian Series:			
Sandstone, hard, brown-----	40	40	
Sandstone, white-----	29	69	W. B.
Mississippian System:			
Osage Series:			
Shale, gray-----	1	70	

Well 21/8W-36D1

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

Quaternary System:			
Recent and Pleistocene Series:			
Drift-----	34	34	
Clay, blue-----	16	50	
Mississippian? System:			
Osage? Series:			
Shale, blue-----	25	75	
Shale, lighter-----	30	105	
Sandstone-----	3	108	
Shale-----	95	203	
Sandstone, white-----	20	223	

Table 5.--Selected well logs, Fountain County, Indiana--Cont.

Well 22/6W-29R1

Type of record: Driller's log.

Altitude: About 700 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	8	8	
Hardpan, brown-----	16	24	Dry spots
Hardpan, brown-----	15	39	Dry
Hardpan, gray-----	32	71	
Hardpan, gravelly, soft, gray----	4	75	
Hardpan, gray-----	7	82	
Mississippian System:			
Osage Series:			
Shale, medium-hard, gray-----	4	86	
Limestone, hard, gray-----	19	105	W. B.

Well 22/6W-32L1

Type of record: Driller's log.

Altitude: About 705 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Soil-----	1	1	
Clay, yellow-----	20	21	
Hardpan, gray-----	19	40	
Sand and hardpan-----	18	58	Little water
Pennsylvanian System:			
Lower Pennsylvanian Series:			
Sandstone, hard, brown-----	4	62	W. B.

Well 22/7W-36J1

Type of record: Driller's log.

Altitude: About 660 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary System:			
Recent and Pleistocene Series:			
Clay, yellow-----	20	20	
Hardpan-----	7	27	
Sand and gravel-----	28	55	Dry
Clay, blue-----	5	60	
Gumbo clay, brown-----	26	86	
Gumbo clay, green-----	7	93	
Mississippian System:			
Osage Series:			
Sandstone-----	7	100	W. B.
Shale-----	1	101	

Table 6.--Field chemical analyses of water from wells,
Fountain County, Indiana
(Results in parts per million)

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

Geologic age: P1, Pleistocene; P, Pennsylvanian; M, Mississippian.

Material: C, coal; Cgl, conglomerate; F, fire clay; G, gravel; Ls, limestone;
S, sand; Sd-ls, sandy-limestone; Sd-sh, sandy-shale; Sh, shale; Sh-ss, shaly-
sandstone; Sls, siltstone; Ss, sandstone.

Well	Material	Geologic age	Date of collection	Temperature (°F)	Iron (Fe)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Hardness as CaCO ₃ (Calcium, magnesium)	Remarks
18/6W- 5J1	Ss	M	10-25-61	--	1.0	454	15	4	308	
6D1	Ss	P	10-25-61	--	2.0	503	14	6	360	
8A1	Sh	M	10-25-61	55	2.5	425	12	6	292	
9M1	Sh	M	10-25-61	55	4.0	517	15	6	344	
17Q1	G	P1	10-25-61	--	2.5	459	15	6	340	
18A1	Ls	M	10-25-61	56	5.0	542	23	22	448	
18K1	Ls	M	10-25-61	57	1.0	508	53	12	416	
19E1	Ls?	M?	10-25-61	56	>7.5	488	13	24	280	
19F1	G	P1	10-25-61	--	4.0	468	13	8	336	
19M1	G	P1	10-25-61	55	4.0	464	12	8	336	
19M2	G	P1	10-25-61	56	5.0	498	13	8	360	
19M4	G	P1	10-25-61	56	1.5	576	185	38	588	
19M7	G	P1	10-25-61	--	3.0	498	14	6	372	
20A1	Sh	M?	10-25-61	--	.3	464	12	8	256	
20D1	Sh	M	10-25-61	--	.5	464	12	8	328	
28Q1	Cgl?	P1	10-25-61	--	2.5	576	29	10	464	
31C1	-----	M?	10-25-61	--	1.0	561	14	4	412	Filled so- lution cavity in limestone?
31L1	Ls	M	10-25-61	--	4.0	556	28	10	396	
32L1	Ls?	M	10-25-61	53	1.0	532	12	4	360	
32P1	Sh	M	10-25-61	54	1.5	566	15	2	364	
18/7W- 3B1	G	P1	10-26-61	--	2.0	337	18	2	184	
5H1	S,G	P1	10-26-61	--	7.5	683	230	80	776	
7N1	Sh	P	10-26-61	54	.3	566	55	8	340	
7R1	Sh	P	10-26-61	--	7.5	454	1,180	12	1,150	
8A1	G	P1	12- 5-61	54	6.0	425	12	1	332	
9D1	Sh	M?	12- 5-61	--	.1	503	13	8	328	Hydrogen sulfide gas

Table 6.--Field chemical analyses of water from wells,
Fountain County, Indiana--Cont.

Well	Material	Geologic age	Date of collection	Temperature (°F)	Iron (Fe)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Hardness as CaCO ₃ (Calcium, magnesium)	Remarks
18/7W-12H1	Ss	P	12- 5-61	--	1.5	454	9	6	320	
12R1	Sh	M?	10-25-61	56	2.5	434	12	12	236	
13J1	Ss	P	10-26-61	56	.5	498	16	6	364	
17N1	Sh,G	P	10-26-61	--	.3	683	435	74	964	
18P1	Ss,Sh	P	10-26-61	55	.5	630	15	10	136	
19D1	Sh	P	10-26-61	--	.5	381	38	14	80	
22A1	Sh,Ss	P	10-26-61	--	.1	547	300	124	776	
22B1	Sh	P	10-26-61	55	.1	439	12	10	252	
23A1	G	P1	10-26-61	54	.5	561	130	26	552	
24K1	G	P1	10-26-61	57	3.0	483	22	6	368	
25L1	Ss	P	10-26-61	53	.1	571	17	4	424	
25R1	Ss	P	10-26-61	55	1.0	556	17	6	396	
27Q1	Ss	P	10-26-61	53	.1	586	11	4	416	
28K1	G	P1	10-26-61	52	3.0	488	47	4	392	
30P1	-----	P?	10-26-61	54	.1	688	11	246	60	
30R1	Ss	P	10-26-61	56	3.0	503	12	4	288	
32D1	Ss?	P	10-26-61	56	2.5	566	18	4	364	
32M1	Ss	P	10-26-61	--	4.0	512	16	4	360	
33E1	G	P1	10-26-61	52	1.0	566	22	4	388	
33J1	Sh	P	10-25-61	52	.2	527	15	10	376	
34L1	G	P1	10-25-61	56	1.0	478	14	8	228	
36C1	Ss	P	10-25-61	54	.1	537	15	6	372	
36J1	Ss	P	10-25-61	56	.5	537	15	8	384	
18/8W- 2M1	S,G	P1	12- 5-61	--	1.0	517	11	118	176	
2Q1	Sh	P	10-27-61	55	3.0	517	14	6	356	
4N2	S,G	P1	10-27-61	--	.1	439	220	10	480	
6N1	Sh, Sd-sh	P	10-27-61	--	<.1	464	41	1,090	224	
7D1	Sh	P	10-27-61	--	<.1	415	52	6	24	
8R1	-----	P	10-27-61	--	3.0	454	445	10	608	
10A1	G	P1	10-27-61	55	5.0	517	28	8	364	
10C1	G	P1	10-27-61	55	2.0	586	13	4	360	
10K1	Sh	P	10-27-61	--	.1	517	18	4	344	
12D1	S	P1	10-31-61	56	5.0	639	15	56	260	
12M1	-----	P1	10-31-61	54	.5	429	14	16	172	Water at top of rock

Table 6.--Field chemical analyses of water from wells,
Fountain County, Indiana--Cont.

Well	Material	Geologic age	Date of collection	Temperature (°F)	Iron (Fe)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Hardness as CaCO ₃ (Calcium, magnesium)	Remarks
18/8W-15N1	Sh,C	P	11- 2-61	56	1.0	473	14	4	324	
17R1	Sh	P	11- 1-61	--	<.1	498	15	4	276	
19L1	Sh,Ss	P	11- 1-61	54	3.0	517	13	4	312	
20A2	Sh	P	11- 1-61	--	.1	512	14	40	112	
20R2	Sd-sh?	P	11- 1-61	54	<.1	439	14	12	100	
21D1	F	P	11- 1-61	--	.1	586	13	48	34	
21M1	-----	P	11- 1-61	55	.1	425	12	4	120	
24Q1	G	P1	11- 1-61	56	3.0	654	15	42	92	
26P1	G	P1	11- 1-61	--	1.5	600	17	6	164	
27L1	Sh	P	11- 1-61	--	.5	620	13	18	200	
28B1	Sd-sh	P	11- 1-61	--	.1	478	12	12	172	
29D1	Sh	P	11- 1-61	--	<.1	605	14	68	54	
29K1	Sh	P	11- 1-61	--	.1	547	11	72	196	
31N1	Ss	P	11- 2-61	54	1.0	439	24	6	316	
32C1	Sh	P	11- 1-61	--	.1	561	12	36	212	
32J1	Ss	P	11- 2-61	56	1.0	498	13	10	332	
33H1	S,G	P1	11- 1-61	--	5.0	605	13	12	344	
34B1	S,G	P1	11- 1-61	57	7.5	537	95	30	472	
34L1	Ss	P	11- 1-61	--	1.5	620	12	44	288	
36A1	Cgl	P	11- 1-61	56	1.5	532	15	6	136	
18/9W- 1G1	Ss	P	11- 2-61	--	7.5	605	430	6	732	
1G2	Sh	P	11- 2-61	--	1.0	561	230	4	540	
1Q1	Ss	P	11- 2-61	55	>7.5	508	35	8	396	
11C1	G	P1	11- 2-61	55	2.5	537	16	6	412	
11C2	G	P1	11- 2-61	54	2.5	571	12	4	412	
11F1	G	P1	11- 1-61	--	5.0	610	12	4	400	
11L1	S,G	P1	11- 1-61	--	2.0	551	26	6	444	
34C1	C	P	11- 1-61	54	.1	454	75	12	388	
34Q1	-----	P	11- 1-61	--	3.0	449	65	4	240	
35P1	Ss	P	11- 1-61	55	<.1	468	28	12	184	
35P2	S,G	P1	11- 1-61	55	.3	361	180	14	432	
36J1	Ss,C	P	11- 1-61	55	.1	483	14	6	260	
36L1	Ls	P	11- 1-61	57	2.5	752	200	24	104	Water bright blue

Table 6.--Field chemical analyses of water from wells,
Fountain County, Indiana--Cont.

Well	Material	Geologic age	Date of collection	Temperature (°F)	Iron (Fe)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Hardness as CaCO ₃ (Calcium, magnesium)	Remarks
19/6W- 7J1	Sls	M	11-27-61	53	0.8	386	17	4	272	
17B1	Sh	M	11-27-61	--	2.0	439	55	10	376	
21N1	Sh	M	11-24-61	52	2.5	527	13	12	332	
19/7W- 3D1	Ss	M	11-27-61	50	.1	429	10	6	292	
4F1	Ss	P	11-27-61	52	.8	512	12	6	352	
8K1	Ss	P	11-21-61	--	.3	449	7	8	324	
9F1	Sd-sh	P	12- 6-61	--	.5	444	11	4	296	
11G1	Ls	M	11-21-61	--	.1	371	9	4	276	
14J1	Ss	P	11-21-61	--	.3	415	14	4	316	
19P1	Ls	M	11-21-61	--	.1	390	10	48	196	
21E1	Sh	M?	11-21-61	--	.8	303	14	6	176	
22D1	Ss	P	12- 6-61	--	.2	346	10	4	240	
24P1	-----	M	11-25-61	--	2.5	459	13	14	164	
25F1	Ss,Sh	M	12- 6-61	--	1.5	630	11	14	296	
28F1	G	P1	11-21-61	53	1.0	322	15	6	188	
19/8W- 1C1	Sh	M	11-20-61	--	1.5	444	15	4	208	
3N1	Ss	P?	11- 2-61	--	1.5	439	18	6	340	
3R1	Ss	M?	11-20-61	46	.3	429	22	4	256	
5K1	S	P1	11- 2-61	54	2.0	532	10	2	340	
6A1	S	P1	11- 2-61	--	.3	322	55	10	288	
6D1	Sd-sh, Ss	P	12- 5-61	--	.1	395	11	4	296	
6H1	Ss	P	11- 2-61	--	.1	405	30	6	328	
11D1	Ss	M?	11-20-61	--	5.0	454	13	4	316	
12E1	Sh	M?	11-20-61	--	.1	478	15	12	96	
13H1	Sd-1s	M	12- 4-61	--	1.0	542	12	8	380	
14F1	Sh-ss?	M	11-20-61	--	.1	566	16	318	224	
15B1	Ss	M	12- 5-61	--	1.0	493	9	6	344	
19N1	S	P1	11-21-61	--	1.0	361	22	6	280	
24G1	S	P1	11-20-61	55	.3	244	90	18	284	
26F1	Sh	P	11-20-61	--	.5	410	14	22	184	
29H1	Ss	P	11-21-61	--	.5	444	15	8	284	
32A1	Ss	P	11-21-61	--	.1	293	70	10	288	
32A2	Ss	P	11-21-61	53	1.5	337	14	30	160	
34B1	Sh	P	11-21-61	--	.1	454	13	60	144	
36A1	G	P1	11-21-61	--	1.5	346	15	78	240	

Table 6.--Field chemical analyses of water from wells,
Fountain County, Indiana--Cont.

Well	Material	Geologic age	Date of collection	Temperature (°F)	Iron (Fe)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Hardness as CaCO ₃ (Calcium, magnesium)	Remarks
19/8W-36N1	G	P1	11-21-61	--	3.0	420	14	24	236	
36P1	Ss	P	11-21-61	53	3.0	376	13	34	192	
19/9W- 1C1	Ss	P	11- 2-61	--	.1	381	62	16	336	
2H1	Ss	P	11- 2-61	--	.3	366	18	4	280	
11C1	Ss	P	11- 2-61	54	.5	273	23	2	228	
26J1	Sd-sh	P	11- 2-61	56	1.0	381	55	6	340	
26K1	S,G	P1	11- 2-61	56	2.0	381	43	4	336	
34A2	Ss	P	12- 5-61	--	1.0	517	18	8	416	
20/6W- 6N1	Ss	P?	11-28-61	--	.1	317	82	12	320	
6N2	Ss	P?	11-28-61	52	.1	342	50	8	296	
19M3	Ss	M	11-28-61	52	3.0	376	14	12	264	
30R1	Ss	M	11-28-61	54	4.0	390	41	18	336	
20/7W- 7R1	Ss	P	12- 6-61	--	.1	381	24	16	312	
19C9	G,S	P1	11-28-61	--	1.0	312	48	8	300	
19C11	Ss	P	11-28-61	--	4.0	400	82	16	384	
19G1	Ss	P	11-28-61	--	.5	342	82	12	316	
26K1	Ss	M	11-28-61	51	.5	376	12	6	236	
26M1	G	P1	11-28-61	54	.3	459	17	1	316	
26R1	Ss	M	11-28-61	52	.5	371	12	4	244	
33R1	Ss	P	11-28-61	54	5.0	454	20	4	344	
34N1	Sh	M?	11-28-61	--	3.0	381	14	6	228	
20/8W- 1D1	Ss	P	11-28-61	53	.3	356	26	6	284	
2P1	Ss	P	11-28-61	--	.1	322	58	6	288	
9G1	Ss?	P?	11-29-61	--	5.0	508	14	8	260	
14R1	Ss?	P?	11-28-61	--	.1	756	35	12	96	
18N1	Ss	P	11-29-61	--	.4	532	12	8	308	
23B1	Ss	P	11-28-61	--	.1	483	13	6	268	
26L1	Sh	P	11-28-61	53	.1	625	21	6	476	
26R1	Ss	P	11-28-61	--	.1	522	14	4	356	
31C1	Ss	P	11-29-61	--	.1	439	14	6	312	
31M1	Ss	P	11-27-61	--	.3	395	21	4	308	
32L1	Ss	P	11-29-61	--	5.0	478	18	6	356	
35P1	-----	M?	11-29-61	52	1.0	581	14	4	348	
35R1	Sh	P?	11-29-61	51	1.0	449	14	4	264	
36L1	G	P1	11-29-61	--	7.5	512	14	6	380	

Table 6.--Field chemical analyses of water from wells,
Fountain County, Indiana--Cont.

Well	Material	Geologic age	Date of collection	Temperature (°F)	Iron (Fe)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Hardness as CaCO ₃ (Calcium, magnesium)	Remarks
20/9W-14D1	Ss	P	11-29-61	54	0.1	322	43	6	292	
23A1	Ss	P	11-29-61	52	.1	532	12	24	300	
25K2	Ss?	P	11-29-61	51	.3	517	18	6	312	
35H2	Ss, Sh	P	11-29-61	--	3.0	366	46	18	268	
36J1	Cg1?	P	11-29-61	--	.3	327	73	12	312	
36K1	Ss	P	11-29-61	--	.1	420	15	4	332	
21/7W- 5K1	Ss	P	11-30-61	--	.1	400	60	8	352	
8H1	Ls	M	11-30-61	53	3.0	303	180	34	432	
10F1	Ss	P	11-30-61	51	.1	346	57	6	308	
14C1	Sh	M	11-30-61	53	.8	405	14	8	228	
18C1	Ss	M	11-30-61	52	.1	390	22	8	116	
18M1	Sh	M	12- 6-61	--	.5	322	20	4	156	
19J1	Ss	M	11-29-61	--	.1	361	82	18	360	
19R1	Ss	M	11-30-61	--	.1	351	80	78	396	
21H1	G	P	11-29-61	54	.1	337	29	6	264	
30H1	G	P1	11-29-61	--	.1	307	71	10	316	
30H2	G, S	P1	11-29-61	--	1.5	395	12	6	260	
30H3	Ss, Sh	M	11-29-61	--	1.3	483	11	16	260	
31M1	Ss	M	11-29-61	53	.1	322	34	6	240	
36E1	Ss	M	11-29-61	--	.1	327	42	4	264	
22/6W-29R1	Ls	M	11-30-61	50	.2	332	65	8	312	
32L1	Ss	P	11-30-61	--	---	420	65	18	388	

Table 7:--Records of springs, Fountain County, Indiana

Spring number: See text for well-numbering system.
 Altitude: Altitude of land-surface datum from topographic map.
 Water-bearing material: G, gravel.
 Geologic age: P1, Pleistocene.

Flow: e, estimated.
 Use: N, none; P, public supply.
 Field chemical analyses: In parts per million:
 water sample collected on date of measurement.

Spring	Owner	Altitude (feet)	Water-bearing material	Geologic age	Flow (gpm)	Date of measurement	Use	Temperature (°F)	Iron (Fe)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Hardness as CaCO ₃ (Calcium and magnesium)	Remarks
18/7W-24R1	Fountain County Highway Department	650	S,G	P1	20e	10-26-61	P	54	3.0	508	12	6	356	
19/8W-17N1	J. I. Yerkes	585	S,G	P1	3e	6-7-61	N	52	.1	278	35	16	268	At contact with underlying sandstone.
21/7W-5M1	City of Attica	600	S,G	P1	25e	1-30-62	N	54	.1	449	70	18	388	At contact with underlying till; once used for city water supply.
21/7W-29C1	R. Harrison	605	S,G	P1	1e	11-30-61	N	52	.1	537	43	10	300	Calcareous tuffa being deposited.
21/8W-24K1	K. Burlington	590	S,G	P1	100e	11-27-61	N	47	.1	327	50	10	316	In gravel pit.

Table 8.--Field chemical analyses of water from streams, Fountain County, Ind.
(Results in parts per million)

Name	Location	Date of collection	Temperature (°F)	Iron (Fe)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Hardness as CaCO ₃ (Calcium and magnesium)	Remarks
T. 18 N., R. 6 W.									
Mill Creek	NW $\frac{1}{2}$ NW $\frac{1}{2}$ sec.30	10- 4-60	65	0.2	303	21	12	300	Sample taken at bridge on state highway.
T. 18 N., R. 8 W.									
Do	SE $\frac{1}{2}$ NE $\frac{1}{2}$ sec.28	10- 4-60	65	.2	278	33	14	260	Sample taken at bridge on county road.
T. 18 N., R. 9 W.									
Coal Creek	NW $\frac{1}{2}$ SW $\frac{1}{2}$ sec.36	9-13-61	77	.2	322	55	10	292	Sample taken at bridge on state highway.
T. 19 N., R. 7 W.									
East Fork Coal Creek	SE $\frac{1}{2}$ NW $\frac{1}{2}$ sec.12	9-13-61	77	.3	356	47	12	320	Do.
T. 19 N., R. 8 W.									
Do	NW $\frac{1}{2}$ NE $\frac{1}{2}$ sec.13	9-13-61	74	<.1	327	65	12	292	Sample taken at bridge on county road.
Graham Creek	NE $\frac{1}{2}$ SW $\frac{1}{2}$ sec.29	9-13-61	74	.8	327	63	8	288	Sample taken at bridge on state highway.
T. 20 N., R. 7 W.									
North Fork Coal Creek	NE $\frac{1}{2}$ NE $\frac{1}{2}$ sec.15	9-13-61	76	.2	307	53	8	276	Sample taken at bridge on county road.
Do	NW $\frac{1}{2}$ NW $\frac{1}{2}$ sec.19	9-13-61	77	.2	303	50	10	272	Do.

Table 8.--Field chemical analyses of water from streams, Fountain Co.,--Cont.

Name	Location	Date of collection	Temperature (°F)	Iron (Fe)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Hardness as CaCO ₃ (Calcium and magnesium)	Remarks
T. 20 N., R. 9 W.									
Wabash River	NE $\frac{1}{2}$ NW $\frac{1}{2}$ sec.35	9-13-61	80	0.3	273	70	18	260	Sample taken at bridge on federal highway.
T. 21 N., R. 7 W.									
Big Shawnee Creek	SE $\frac{1}{2}$ SE $\frac{1}{2}$ sec.13	9-13-61	76	.2	332	65	10	324	Sample taken at bridge on state highway.
T. 21 N., R. 8 W.									
Do	NW $\frac{1}{2}$ SE $\frac{1}{2}$ sec.23	9-13-61	75	.1	317	48	10	296	Sample taken at bridge on county road.
Bear Creek	NE $\frac{1}{2}$ SE $\frac{1}{2}$ sec.32	9-13-61	72	.1	337	72	8	312	Do.
T. 22 N., R. 7 W.									
Wabash River	NE $\frac{1}{2}$ SE $\frac{1}{2}$ sec.23	9-13-61	78	.2	278	68	16	256	Do.

Table 9.--Water levels in observation well in Fountain County, Indiana
(In feet below land-surface datum)

Fountain 1. (19/7W-12F1). Merchants and Farmers Telephone Company. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 12, T. 19 N., R. 7 W. Drilled unused water-table well in sandstone, diameter 4 inches, depth 59 feet. Land-surface datum is about 705 feet above msl. Highest water level is 33.28 below lsd, March 7, 1950; lowest, 44.5 below lsd, Dec. 17, 1954. Records available 1944 to 1961.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1944		Feb. 7	42.33	Dec. 6	40.76	Oct. 22	41.10
		14	42.45	12	41.10	29	41.17
May 26	40.68	21	42.20	19	40.97	Nov. 5	41.29
31	40.68	Mar. 2	42.39	26	41.05	11	41.30
June 7	40.77	7	42.45			20	41.20
14	34.32	14	42.14	1946		26	41.30
21	37.75	20	42.17			Dec. 3	41.32
28	39.51	28	42.15	Jan. 1	40.26	10	41.35
July 5	40.14	Apr. 4	41.45	10	40.35	17	41.60
12	40.56	11	41.09	16	40.07	24	41.45
19	40.81	18	41.24	23	40.17	31	41.40
26	40.98	25	41.14	31	40.15		
Aug. 3	41.33	May 9	41.26	Feb. 6	40.35	1947	
9	41.50	17	40.85	13	40.37		
16	41.30	23	40.57	25	39.36	Jan. 7	41.50
23	41.76	31	40.44	Mar. 27	39.45	14	41.52
30	41.76	June 6	40.66	Apr. 4	39.68	23	41.50
Sept. 6	41.89	13	41.57	13	39.67	28	41.60
13	41.94	20	40.25	17	39.69	Feb. 4	41.62
21	42.09	26	39.96	May 6	39.50	11	41.73
27	42.12	July 4	40.07	8	39.44	18	41.66
Oct. 4	42.14	12	40.22	14	39.53	25	41.68
10	42.08	18	40.62	21	39.59	Mar. 5	41.86
17	42.09	24	40.55	28	39.23	12	41.85
25	42.11	Aug. 4	40.82	June 4	39.33	18	41.85
Nov. 1	42.14	9	40.87	11	39.38	26	41.88
8	42.03	15	40.50	18	39.15	Apr. 1	41.82
15	42.07	21	40.09	25	37.49	9	41.89
24	42.19	30	40.78	July 2	38.15	15	41.72
29	42.09	Sept. 7	41.00	11	38.28	22	41.70
Dec. 6	42.14	12	41.13	16	38.75	May 1	39.75
20	42.06	19	41.14	23	38.94	6	40.45
27	42.06	27	41.21	30	39.20	13	40.27
		Oct. 3	40.88	Aug. 7	39.49	21	40.67
1945		10	39.95	14	39.94	27	40.14
		17	40.23	20	40.04	June 3	40.24
Jan. 4	42.31	24	40.47	29	40.30	10	39.71
10	42.23	31	40.55	Sept. 3	40.46	17	39.64
17	42.34	Nov. 7	40.74	10	40.50	25	39.82
24	42.29	15	40.95	17	40.74	July 2	40.04
31	42.27	21	40.42	Oct. 1	41.00	8	40.09
		28	40.84	8	40.95	16	40.25
				15	41.15	24	40.68

Table 9.--Water levels in observation well in Fountain County, Ind.--Cont.

Fountain 1--Cont.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1947		May 25	38.74	Apr. 26	38.82	Mar. 14	34.89
		June 1	39.05	May 3	38.87	21	34.98
July 30	40.71	8	39.04	10	38.90	28	35.06
Aug. 6	40.72	16	39.72	17	38.18	Apr. 6	34.75
12	40.82	23	39.75	24	39.24	12	34.26
19	41.02	29	38.72	June 1	38.60	18	34.26
28	41.24	July 6	39.28	9	38.85	25	34.55
Sept. 2	41.36	13	38.85	14	38.75	May 3	34.98
10	41.49	20	39.23	22	39.12	9	35.22
16	41.65	27	38.72	28	39.22	17	36.00
23	41.37	Aug. 3	39.42	July 5	39.42	23	36.27
30	41.32	10	39.83	12	39.55	31	36.62
Oct. 8	41.44	17	39.90	20	39.80	June 6	36.58
15	41.70	24	40.10	26	39.45	13	36.50
21	41.79	Sept. 1	40.44	Aug. 2	39.78	21	33.40
28	41.82	7	40.37	11	39.88	28	36.40
Nov. 4	41.78	21	40.20	17	40.00	July 5	36.42
11	41.79	28	40.92	23	40.28	11	36.83
18	41.75	Oct. 5	40.95	30	40.20	18	37.22
25	41.74	13	41.18	Sept. 8	40.42	26	37.30
Dec. 2	41.75	19	41.08	13	40.31	Aug. 1	37.75
9	41.71	26	40.86	20	40.55	9	38.09
16	41.84	Nov. 2	40.72	27	40.45	15	38.34
23	41.87	10	40.85	Oct. 4	40.70	22	38.76
31	41.95	16	40.54	11	39.05	29	38.95
		23	40.28	18	39.55	Sept. 5	39.10
1948		30	41.07	25	39.45	12	38.90
		Dec. 8	41.20	Nov. 1	39.25	19	39.12
Jan. 6	41.76	15	41.06	8	39.55	26	39.02
13	41.72	21	41.32	16	39.85	Oct. 3	38.88
21	41.55	28	41.17	22	39.82	11	38.72
28	41.60			29	39.76	17	38.99
Feb. 3	41.92	1949		Dec. 7	40.18	24	38.94
10	42.02			20	40.09	31	39.06
17	41.88	Jan. 4	41.09	24	40.37	Nov. 8	39.08
24	41.99	12	40.48			14	39.29
Mar. 2	41.72	25	35.75	1950		21	39.25
10	41.92	Feb. 1	36.80			28	39.32
16	41.90	8	37.49	Jan. 2	39.35	Dec. 5	39.29
25	41.29	15	38.17	10	36.40	12	38.97
Apr. 1	40.71	22	37.86	17	35.42	19	38.94
8	39.50	Mar. 1	37.37	24	34.90	26	39.37
14	35.40	8	38.16	31	37.35		
21	40.60	15	38.50	Feb. 7	35.52		
27	38.71	22	38.30	15	35.05		
May 5	39.06	29	38.86	22	36.30		
12	38.88	Apr. 12	38.40	Mar. 1	34.20		
18	38.72	19	38.50	7	33.28		

Table 9.--Water levels in observation well in Fountain County, Ind.--Cont.

Fountain 1--Cont.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1951		Nov. 20	40.15	Sept. 30	40.52	Oct. 2	41.68
		27	40.12	Oct. 7	40.63	9	41.69
Jan. 2	39.00	Dec. 4	40.19	14	40.72	16	41.70
9	39.19	11	40.10	21	40.73	23	41.68
16	39.45	18	40.15	28	40.71	30	41.61
24	39.37	26	40.57	Nov. 4	40.52	Nov. 4	41.64
30	39.55			11	40.72	6	41.70
Feb. 7	39.73	1952		18	40.81	13	41.50
13	39.71			25	40.50	20	41.40
20	39.32	Jan. 2	40.23	Dec. 3	40.82	27	41.30
27	38.72	8	39.73	9	40.72	Dec. 4	41.40
Mar. 6	38.05	15	40.16	16	40.85	11	41.30
13	37.76	22	39.90	23	40.83	18	41.70
20	38.39	29	40.20	30	40.85	25	41.70
27	38.15	Feb. 5	39.87				
Apr. 3	38.25	12	39.42	1953		1954	
10	38.50	19	39.22				
17	38.54	26	39.32	Jan. 6	40.90	Jan. 1	42.61
24	38.30	Mar. 4	39.41	13	40.96	8	40.90
May 1	38.48	11	39.73	20	40.98	15	41.70
8	38.53	19	39.18	27	40.96	22	41.90
15	38.55	25	38.85	Feb. 3	41.06	29	40.80
22	38.09	Apr. 1	38.81	10	41.17	Feb. 5	41.70
29	38.40	8	38.88	17	41.26	12	41.70
June 5	38.48	16	38.82	24	41.10	19	42.62
12	38.46	22	38.34	Mar. 4	41.12	26	41.70
18	38.53	29	38.36	10	41.02	Mar. 5	41.70
26	38.53	May 6	38.39	17	40.92	12	42.63
July 3	39.02	13	38.52	24	40.55	19	42.64
10	39.10	20	38.42	31	39.20	26	42.63
17	38.55	June 3	38.48	Apr. 8	40.08	Apr. 2	42.64
24	38.78	10	38.50	14	40.14	9	42.65
31	38.60	17	38.50	21	40.12	16	41.70
Aug. 7	38.52	25	38.22	May 5	40.12	23	42.61
14	39.29	July 1	38.24	13	40.08	30	41.70
21	39.46	8	38.18	26	40.27	May 7	41.70
28	39.40	9	38.26	June 2	40.35	14	41.70
Sept. 4	39.80	15	38.22	9	40.49	21	42.61
11	39.90	22	38.40	17	40.45	28	42.63
18	39.89	29	38.40	23	40.72	June 4	42.64
25	39.95	Aug. 5	39.28	July 13	40.65	11	42.65
Oct. 2	39.89	12	39.46	21	40.64	18	42.66
9	40.13	19	39.56	28	40.66	25	42.62
16	40.15	26	39.75	Aug. 28	41.25	July 2	42.65
23	39.99	Sept. 2	39.90	Sept. 4	42.25	16	42.50
31	40.35	9	40.15	11	41.25	23	42.67
Nov. 6	40.15	17	40.05	18	41.70	30	42.69
13	39.92	23	40.44	25	41.68	Aug. 6	42.69

Table 9.--Water levels in observation well in Fountain County, Ind.--Cont.

Fountain 1--Cont.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1954		Aug. 19	42.10	July 27	41.00	May 31	41.6
		26	42.10	Aug. 3	41.20	June 7	40.8
Aug. 13	43.60	Sept. 2	42.20	10	41.10	14	39.7
20	41.70	9	42.30	17	41.10	21	39.1
27	42.70	16	42.55	24	41.10	24	39.08
Sept. 3	42.80	23	42.40	31	41.20	28	38.9
10	42.80	30	42.50	Sept. 7	41.20	July 5	37.7
17	42.90	Oct. 7	42.70	14	41.70	19	37.7
24	42.90	14	42.70	21	41.80	26	37.7
Oct. 1	42.80	21	42.30	28	41.80	Aug. 2	38.5
8	42.80	28	42.40	Oct. 5	41.90	16	43.3
14	42.70	Nov. 4	42.30	12	41.90	23	39.7
29	42.50	11	42.20	19	41.90	30	39.9
Nov. 5	42.50	18	42.20	26	41.90	Sept. 6	40.0
12	42.60	25	42.20	Nov. 2	41.80	13	40.2
19	41.70	Dec. 2	42.30	9	41.80	20	40.2
26	42.50	9	42.30	16	41.90	27	40.1
Dec. 3	42.40	16	42.30	23	41.90	Oct. 4	40.1
10	42.40	24	42.30	30	41.70	12	39.9
17	44.50	30	42.40	Dec. 7	41.70	18	41.0
24	42.30			14	41.70	25	39.3
31	42.20	1956		21	41.80	Nov. 1	39.3
				28	41.70	8	39.8
1955		Jan. 6	41.90			15	39.8
		13	42.00	1957		22	41.3
Jan. 7	41.70	20	42.40	Jan. 4	41.7	29	41.3
14	41.60	27	42.10	11	41.6	Dec. 6	41.2
21	41.50	Feb. 2	42.10	18	41.7	13	41.2
28	41.50	10	41.90	25	41.7	20	41.0
Mar. 11	42.50	17	41.80	Feb. 1	41.6	27	41.0
18	42.40	24	41.80	8	41.7		
25	42.30	Mar. 2	41.80	15	41.8	1958	
Apr. 1	42.30	9	41.80	22	41.7	Jan. 3	41.0
22	42.45	16	41.70	Mar. 1	41.8	10	40.2
29	42.20	23	41.70	8	41.8	17	40.4
May 6	41.70	30	41.70	13	41.7	24	40.3
13	41.70	Apr. 6	41.70	15	41.7	31	40.3
20	41.70	13	41.90	22	41.7	Feb. 7	40.2
27	40.70	May 4	41.80	29	41.7	14	40.0
June 3	41.70	11	41.80	Apr. 5	41.6	21	40.0
10	41.70	18	41.90	13	41.6	28	40.1
17	42.20	25	41.80	19	41.6	Mar. 7	40.4
24	41.70	June 1	41.70	26	41.2	14	40.2
July 15	40.70	8	41.60	May 3	41.6	21	40.2
22	40.70	15	41.70	10	41.7	28	41.5
29	41.70	22	41.00	17	41.7	Apr. 4	42.7
Aug. 5	41.90	July 13	41.00	24	41.6	11	41.3
12	42.00	20	40.09				

Table 9.--Water levels in observation well in Fountain County, Ind.--Cont.

Fountain 1--Cont.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1958		Feb. 20	39.5	Jan. 12	41.11	Dec. 6	41.29
		27	38.2	19	41.30	13	41.36
Apr. 18	41.2	Mar. 6	38.1	26	40.70	20	41.28
25	41.1	13	38.1	Feb. 2	41.30	27	41.48
May 2	41.1	20	38.1	9	41.10		
8	41.5	27	37.8	16	40.76	1961	
16	41.5	Apr. 3	37.8	23	41.08		
30	41.5	10	37.9	Mar. 1	41.30	Jan. 3	41.45
June 6	41.4	17	37.9	8	41.10	10	41.30
13	41.2	24	37.7	15	41.30	17	41.30
20	40.0	May 1	37.7	22	41.08	24	41.50
27	39.7	8	37.9	29	41.08	31	41.45
July 4	39.3	15	38.1	Apr. 5	41.09	Feb. 7	41.40
11	38.7	22	38.5	12	41.12	14	41.60
18	36.4	29	38.5	19	41.08	21	41.50
25	34.1	June 5	38.7	26	41.09	28	41.60
Aug. 9	34.4	12	38.7	May 3	41.08	Mar. 7	41.45
15	35.1	19	38.3	10	40.80	14	41.40
22	34.9	26	38.3	17	40.68	21	41.35
29	35.7	July 3	38.5	24	40.48	28	41.20
Sept. 5	36.3	10	39.5	31	40.36	Apr. 4	41.35
12	36.5	17	39.6	June 7	40.70	11	41.10
19	36.7	24	39.7	14	40.60	18	41.00
26	36.7	31	40.0	21	40.50	25	40.80
Oct. 3	37.2	Aug. 7	40.0	28	39.70	May 2	40.70
10	37.7	14	40.2	July 5	39.80	9	40.59
17	37.8	21	40.2	12	39.70	16	40.30
24	38.3	28	40.4	19	39.80	23	40.40
31	38.7	Sept. 4	40.5	26	39.00	30	40.30
Nov. 7	39.2	11	41.0	Aug. 2	38.80	June 6	41.05
14	39.7	18	40.9	9	38.90	13	39.50
21	38.7	25	41.1	16	38.80	20	39.70
28	38.7	Oct. 2	41.1	23	39.00	27	40.50
Dec. 5	38.6	9	41.4	30	39.40	July 4	39.20
12	38.6	16	41.2	Sept. 6	39.50	11	40.10
19	38.7	23	41.2	13	39.80	18	39.10
26	38.9	30	41.3	20	40.30	25	39.30
		Nov. 7	41.3	27	40.50	Aug. 1	39.60
1959		Dec. 1	41.01	Oct. 4	40.75	8	39.90
		8	41.06	11	40.90	15	40.10
Jan. 2	39.1	15	41.05	18	41.10	22	40.20
9	39.5	22	41.24	25	41.08	29	40.50
16	39.7	29	41.11	Nov. 1	41.18	Sept. 5	40.50
23	39.7			8	41.28	12	40.70
30	39.5	1960		15	41.22	19	40.90
Feb. 6	39.7			22	41.25	26	41.00
13	39.5	Jan. 5	41.10	29	41.30	Oct. 3	41.10

Table 9.--Water levels in observation well in Fountain County, Ind.--Cont.

Fountain 1--Cont.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1961		Oct. 24	41.30	Nov. 7	41.10	Dec. 5	40.70
		31	41.00	14	41.00	12	40.50
Oct. 10	41.20			21	41.10	19	40.60
17	41.10			28	41.10	26	40.50

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.

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- 2 A preliminary report of the ground-water levels of the State based on records of twenty-six observation wells for which long time records are available. 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.
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- 28 Ground-water resources of west-central Indiana. Preliminary Report: Fountain County. F. A. Watkins, Jr., and D. G. Jordan. Indiana Department of Conservation, Division of Water Resources. 1965.

INDEX

	Page
Abstract-----	1
Acknowledgments-----	5
Analyses of ground water-----	5,7,8,9
hardness of water-----	8,9
methods of analysis-----	5
U. S. Public Health Service drinking-water standards-----	11
Bibliography, selected-----	12
Conditions, hydrologic-----	9
confined or artesian-----	9
unconfined or water-table-----	9
Conditions, quality of water-----	7,8
range in concentration-----	7
significance of various constituents and properties-----	7,8
Data, collection and processing-----	5
water levels-----	5
water samples-----	5
well records-----	5
Geology, general-----	6
consolidated rocks-----	6
Mississippian age-----	6
Pennsylvanian age-----	6
unconsolidated rocks-----	6
Pleistocene and Recent age-----	6
well logs-----	23
Glossary, drillers' terms-----	12
Location of area-----	2
Publications, cooperative ground-water program-----	88
Records-----	11
field chemical analyses-----	11
springs-----	11,79
streams-----	11,80
wells-----	11,73
springs-----	11,79
numbering system-----	4
streams-----	11
water levels-----	11,80
wells-----	11,82
well logs-----	11,23
Sources, ground-water-----	6
Summary-----	10
Water levels-----	11,82
Wells-----	9
construction of-----	9
drilled-----	9
driven-----	10
dug-----	10
logs-----	5
numbering system-----	4
observation-----	5
tests, for oil, gas, and holes drilled for purposes other than water-----	5,10 9,10
Well screen, grain-size, and equivalent slot and gauze size-----	10

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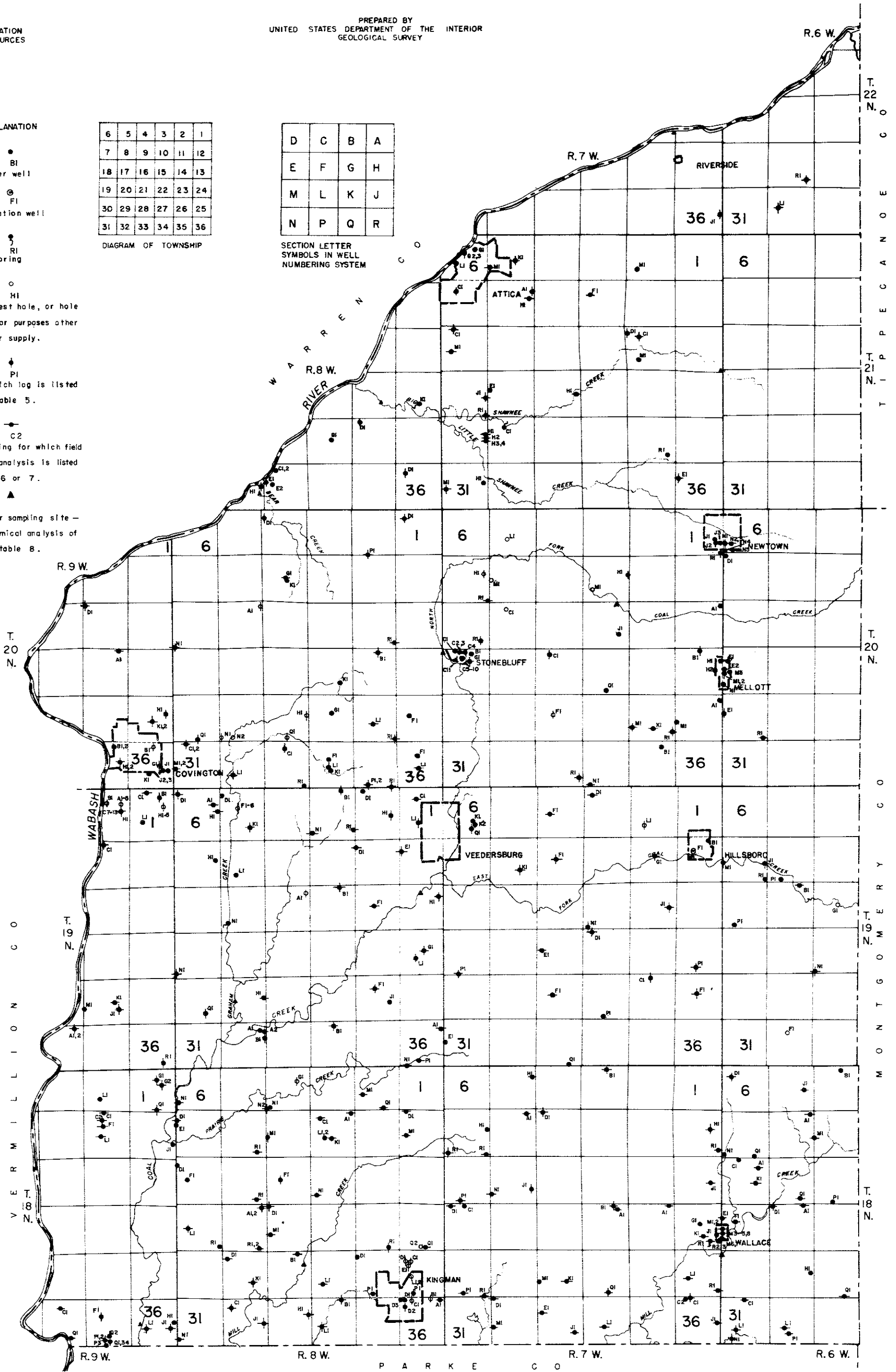
- EXPLANATION**
- BI Water well
 - ⊙ FI Observation well
 - ⊙ RI Spring
 - HI Oil well, test hole, or hole drilled for purposes other than water supply.
 - ◆ PI Well for which log is listed in table 5.
 - C2 Well or spring for which field chemical analysis is listed in table 6 or 7.
 - ▲ Stream-water sampling site — field chemical analysis of water in table 8.

6	5	4	3	2	1
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

DIAGRAM OF TOWNSHIP

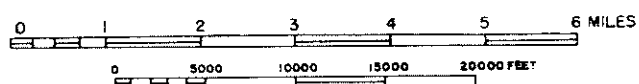
D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

SECTION LETTER SYMBOLS IN WELL NUMBERING SYSTEM



MAP OF FOUNTAIN COUNTY, INDIANA, SHOWING
LOCATION OF WELLS AND SPRINGS

BASE MODIFIED FROM INDIANA
DEPARTMENT OF CONSERVATION
GEOLOGICAL SURVEY, BASE MAP
OF FOUNTAIN COUNTY, NO. 23
SEPTEMBER 25, 1953



BY F. A. WATKINS, JR. AND D. G. JORDAN
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EXPLANATION

Production from sand and gravel



Water from sand and gravel of Pleistocene age overlain by till or interbedded with till. Well depths range from 70 to 160 feet. Yields more than adequate for domestic and stock use. Areas of municipal production and relatively large yields or in which large yields may be possible.



Water from sand and gravel lenses and stringers of Pleistocene age interbedded with till or overlain by Recent alluvium. Well depths range from 30 to 190 feet. Yields more than adequate for domestic and stock use. Some wells cased through the sand and gravel and tap the underlying bedrock.

Production from bedrock



Water predominately from sandstone of Pennsylvanian age. Well depths range from 40 to 300 feet. Yields generally adequate for domestic and stock use.



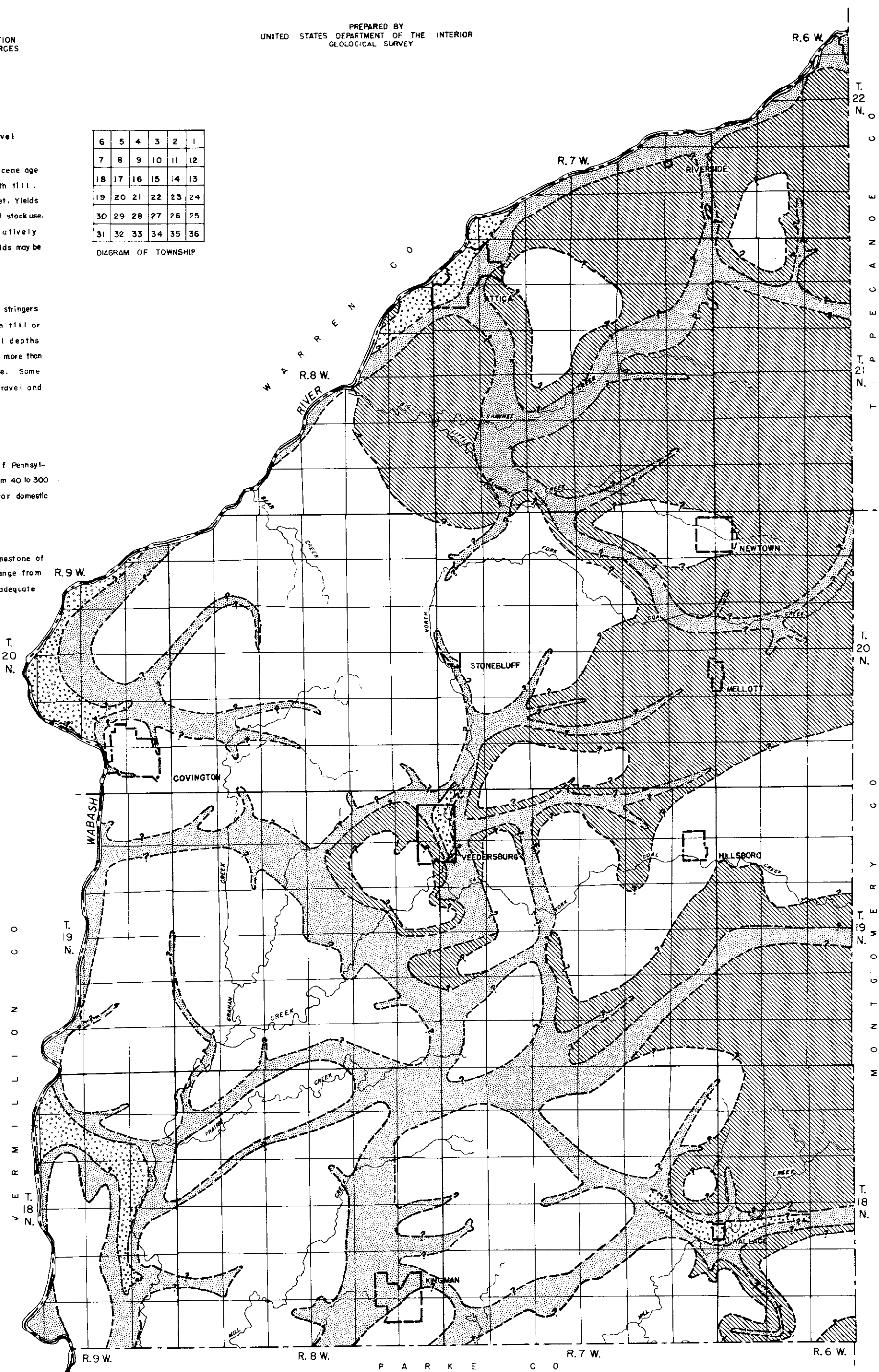
Water from sandstone, shale, and limestone of Mississippian age. Well depths range from 30 to 400 feet. Yields generally adequate for domestic and stock use.

Boundary approximate

Boundary uncertain

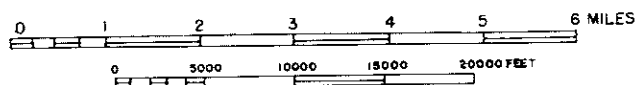
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

DIAGRAM OF TOWNSHIP



MAP OF FOUNTAIN COUNTY, INDIANA, SHOWING
AVAILABILITY OF GROUND WATER

BASE MODIFIED FROM INDIANA
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OF FOUNTAIN COUNTY, NO. 23
SEPTEMBER 25, 1953



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

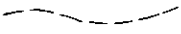
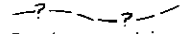
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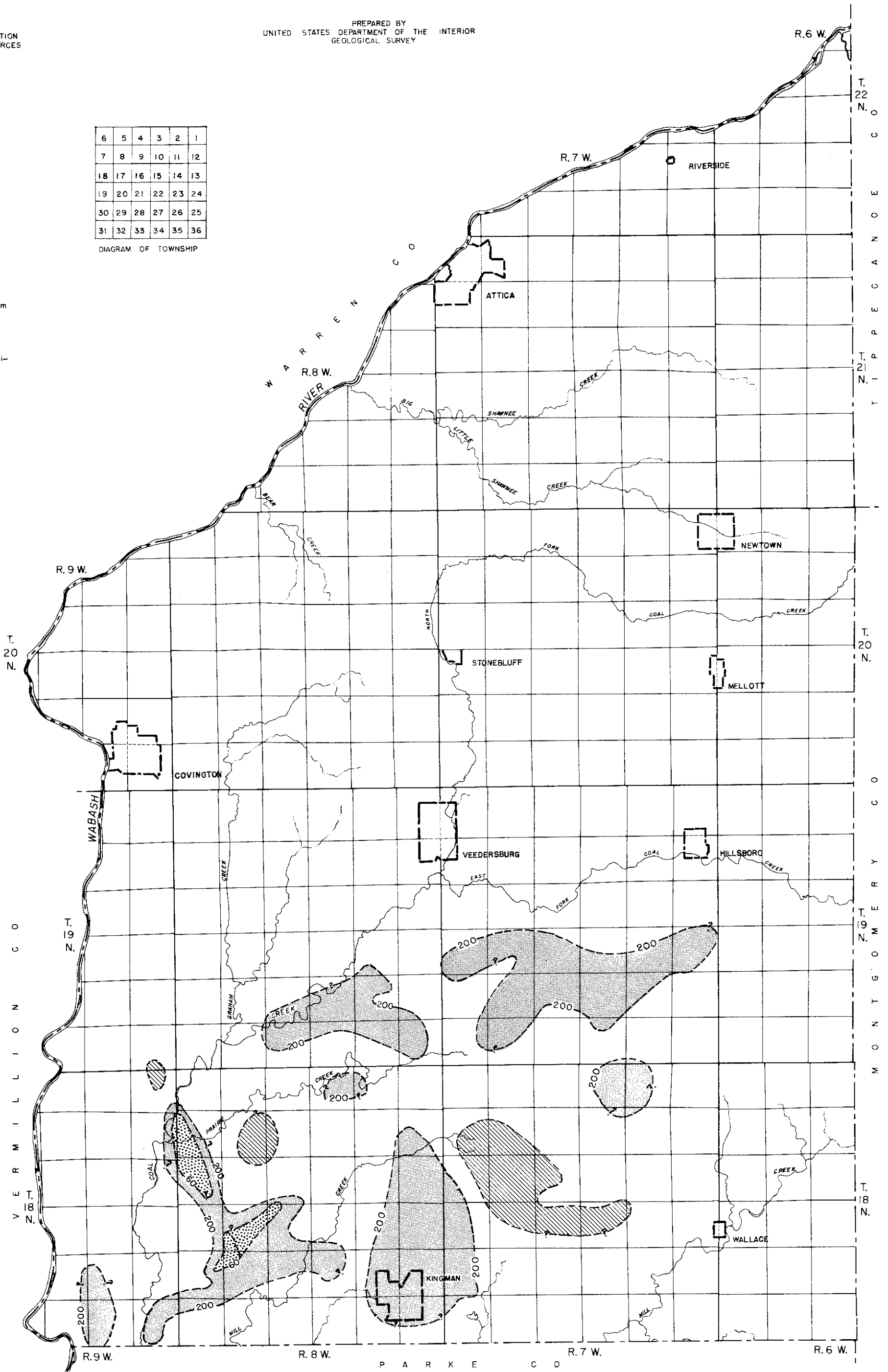
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6	5	4	3	2	1
7	8	9	10	11	12
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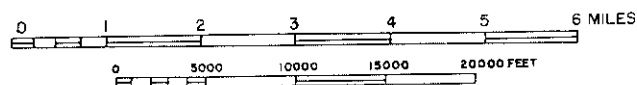
DIAGRAM OF TOWNSHIP

EXPLANATION

-  Hardness 0 to 60 ppm
-  Hardness 61 to 200 ppm
-  Hardness more than 200 ppm
-  Area of sulfate content in excess of 250 ppm at minimum depth of 55 feet
-  Boundary approximate
-  Boundary uncertain



MAP OF FOUNTAIN COUNTY, INDIANA, SHOWING
HARDNESS OF GROUND WATER



BY F. A. WATKINS, JR. AND D. G. JORDAN
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