

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 10/7W-5B1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal, trace-----	--	86	
Fire clay-----	2	88	

Well 10/7W-5J1

Type of record: Driller's log.

Altitude: About 585 feet.

Quaternary system:			
Recent and Pleistocene series:			
Open well-----	40	40	
Clay, yellow-----	10	50	
Pennsylvanian system:			
Middle series:			
Sandstone, yellow-----	8	58	
Coal-----	1	59	
Fire clay-----	5	64	
Coal-----	2	66	
Shale, light-----	6	72	
Sandstone-----	4	76	
Shale, light-----	2	78	
Fire clay-----	3	81	

Well 10/7W-8A1

Type of record: Driller's log.

Altitude: About 560 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Pennsylvanian system:			
Lower ? series:			
Sandstone, yellow-----	6	16	
Shale, light-----	17	33	
Sandstone-----	60	93	
Coal-----	4	97	
Fire clay-----	3	100	

Well 10/7W-9D1

Type of record: Driller's log.

Altitude: About 565 feet.

Quaternary system:			
Recent and Pleistocene series:			
Open well-----	27	27	
Sand and gravel-----	5	32	
Pennsylvanian system:			
Lower? series:			
Shale, light-----	22	54	
Sandstone-----	46	100	W.B.

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 10/7W-11A1

Type of record: Driller's log. Altitude: About 550 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface clay-----	15	15	
Softpan-----	25	40	
Sand, yellow-----	1	41	W.B.
Gravel-----	2	43	W.B.
Hardpan, gray-----	2	45	

Well 10/7W-12B2

Type of record: Driller's log. Altitude: About 550 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Sand and gravel, dirty, yellow- Wash, gray-----	15	35	
	25	60	
Sand, dirty-----	3	63	
Sand and gravel-----	4	67	
Sand, coarse-----	4	71	
Sand, gray-----	9	80	
Wash, gray-----	10	90	
Sand, dirty, gray-----	5	95	
Sand and gravel-----	5	100	W.B.

Well 10/7W-17Q1

Type of record: Driller's log. Altitude: About 555 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Pennsylvanian system:			
Middle? series: /			
Shale-----	7	22	
Sandstone-----	29	51	
Shale and coal-----	34	85	

Well 10/7W-20M1

Type of record: Driller's log. Altitude: About 575 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	8	8	
Pennsylvanian system:			
Middle series:			
Sandstone, brown-----	10	18	
Shale, gray-----	21	39	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 10/7W-20M1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	1	40	
Fire clay-----	4	44	
Shale, gray-----	19	63	
Lower? series:			
Limestone-----	3	66	
Shale, gray-----	3	69	
Coal-----	1	70	
Shale, gray-----	30	100	Trace of coal at 94 feet
Shale, sandy, gray-----	18	118	
Coal-----	1	119	
Shale, gray-----	10	129	
Shale, sandy, gray-----	31	160	W.B.
Sandstone, white-----	5	165	
Shale, sandy, gray-----	6	171	
Sandstone, white-----	5	176	
Shale, gray-----	8	184	
Shale, blue-----	26	210	Trace of coal at 196 feet.

Well 10/7W-20M2

Type of record: Driller's log.

Altitude: About 560 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Pennsylvanian system:			
Middle series:			
Shale, light-----	8	28	
Shale, blue-----	10	38	
Shale, light-----	17	55	
Sandstone-----	3	58	
Shale, brown-----	2	60	
Sandstone-----	8	68	W.B.

Well 10/7W-20N1

Type of record: Driller's log.

Altitude: About 600 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	12	12	
Sand, red-----	18	30	
Pennsylvanian system:			
Middle series:			
Shale, soft, blue-----	10	40	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 10/7W-20N1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Slate, black-----	10	50	
Shale, light-----	5	55	
Sandstone-----	57	112	
Lower? series:			
Coal-----	1	113	
Sandstone-----	5	118	
Shale, light-----	7	125	
Sandstone-----	5	130	
Shale, light-----	5	135	
Sandstone-----	15	150	
Shale, dark-----	7	157	
Coal-----	1	158	
Shale, light-----	12	170	

Well 10/7W-24H1

Type of record: Driller's log.

Altitude: About 600 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand, brown-----	15	15	
Sand, gray-----	13	28	
Mud-----	6	34	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	17	51	
Shale, sandy, gray-----	7	58	
Shale, gray-----	18	76	
Slate, gray-----	5	81	
Coal-----	3	84	
Fire clay-----	2	86	
Shale, gray-----	3	89	
Shale, sandy, gray-----	9	98	
Lower? series:			
Shale, gray-----	3	101	
Shale, sandy, gray-----	31	132	
Shale, gray-----	15	147	
Slate, gray-----	3	150	
Coal-----	2	152	W.B.
Fire clay-----	--	152	

Well 10/7W-24K1

Type of record: Driller's log.

Altitude: About 560 feet.

Quaternary system:			
Recent and Pleistocene series:			
Open well-----	20	20	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 10/7W-24K1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Hardpan-----	10	30	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	30	60	
Lower series:			
Limestone-----	5	65	
Shale, sandy-----	4	69	
Coal-----	1	70	
Fire clay-----	2	72	
Shale, blue-----	28	100	
Coal-----	1	101	
Fire clay-----	1	102	

Well 10/7W-24R1			
Type of record: Driller's log.		Altitude: About 560 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface, sandy-----	10	10	
Sand-----	51	61	
Pennsylvanian system:			
Lower series:			
Shale, sandy, gray-----	7	68	
Shale, sandy, dark-gray-----	2	70	W.B.
Shale, sandy, gray-----	25	95	
Coal-----	1	96	

Well 10/7W-25H1			
Type of record: Driller's log.		Altitude: About 555 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	13	13	
Hardpan-----	11	24	
Softpan-----	43	67	
Sand and gravel-----	3	70	
Drift, sandy-----	3	73	
Pan, sandy, soft-----	11	84	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	6	90	
Coal-----	2	92	
Clay-----	3	95	
Shale, sandy, gray-----	15	110	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-25K1

Type of record: Driller's log.

Altitude: About 555 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface, sandy-----	22	22	
Hardpan-----	12	34	
Softpan-----	13	47	
Pennsylvanian system:			
Lower series:			
Sandstone-----	38	85	
Shale, sandy, gray-----	6	91	
Coal-----	2	93	
Clay-----	2	95	
Shale, sandy, gray-----	15	110	

Well 10/7W-25M1

Type of record: Driller's log.

Altitude: About 540 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Drift-----	20	30	
Pennsylvanian system:			
Lower series:			
Shale, sandy-----	27	57	
Limestone-----	3	60	
Coal and sandstone-----	2	62	
Fire clay-----	5	67	
Shale, light-----	10	77	

Well 10/7W-25R1

Type of record: Driller's log.

Altitude: About 580 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Muck, gray-----	8	26	
Softpan, brown-----	20	46	
Softpan, yellow-----	6	52	
Pennsylvanian system:			
Middle series:			
Slate, gray-----	3	55	
Slate, sandy, gray-----	15	70	
Slate, dark-blue-----	3	73	
Slate, blue-----	6	79	
Shale, sandy, gray-----	9	88	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 10/7W-32G2--Continued

Material	Thick-ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	2	35	
Fire clay-----	3	38	
Shale, light-----	87	125	
Lower? series			
Sandstone-----	21	146	
Coal-----	3	149	
Fire clay-----	2	151	
Shale, light-----	8	159	
Shale, sandy, blue-----	10	169	
Shale, light-----	11	180	

Well 10/7W-33E1

Type of record: Driller's log.

Altitude: About 590 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	18	18	
Pennsylvanian system:			
Middle series:			
Sandstone, soft-----	22	40	
Shale, dark-----	19	59	
Coal-----	2	61	
Fire clay-----	5	66	
Sandstone, white-----	7	73	W.B.
Lower? series:			
Fire clay-----	3	76	
Sandstone, white-----	11	87	
Shale, sandy-----	11	98	
Coal-----	1	99	
Fire clay-----	2	101	

Well 10/7W-36P1

Type of record: Driller's log.

Altitude: 590 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	36	36	
Pennsylvanian system:			
Middle? series:			
Sandstone-----	6	42	
Lower? series:			
Shale, gray-----	21	63	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 10/7W-36P1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Coal fault-----	2	65	W.B.
Shale, gray-----	5	70	
Sandstone-----	1	71	

Well 11/5W- 3G1

Type of record: Driller's log.

Altitude: About 720 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	
Pennsylvanian system:			
Lower series:			
Sandstone, yellow-----	3	20	
Mud-----	5	25	
Sandstone, gray-----	2	27	
Shale, sandy, gray-----	3	30	
Shale, gray-----	21	51	
Shale, sandy, gray-----	4	55	
Shale, sandy, black-----	6	61	Gas
Sandstone, gray-----	3	64	
Shale, sandy, gray-----	8	72	
Sandstone, white-----	26	98	W.B.
Shale, gray-----	--	98	

Well 11/5W- 4R1

Type of record: Driller's log.

Altitude: About 660 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Pennsylvanian system:			
Lower series:			
Sandstone, brown-----	5	21	
Shale, very soft, gray-----	17	38	
Shale, sandy, gray-----	2	40	
Sandstone, brown-----	4	44	
Shale, gray-----	4	48	
Shale with layers of sand- stone-----	12	60	
Sandstone, brown-----	8	68	W.B.
Sandstone, gray-----	8	76	W.B.
Shale, gray-----	5	81	
Shale, sandy, gray-----	--	81	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/5W- 6G1

Type of record: Driller's log.

Altitude: About 665 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	6	6	
Pennsylvanian system:			
Lower series:			
Sandstone, yellow-----	17.5	23.5	
Shale, gray-----	1.5	25	
Sandstone-----	6	31	
Shale, gray-----	2	33	
Shale, sandy, gray-----	22	55	
Shale, gray-----	7	62	
Sandstone-----	38	100	
Shale, gray-----	43	143	
Sandstone-----	27	170	W.B.

Well 11/5W- 6G1

Type of record: Driller's log.

Altitude: 630 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	9	9	
Pennsylvanian system:			
Lower series:			
Sandstone-----	5	14	
Slate, black-----	3	17	
Sandstone-----	6	23	
Slate, blue-----	12	35	
Fire clay-----	3	38	
Slate, blue-----	16	54	
Coal-----	2	56	
Fire clay-----	1	57	
Shale, blue-----	40	97	
Slate, brown-----	13	110	
Coal-----	3	113	
Fire clay-----	2	115	
Shale, chunky, dark-----	14	129	

Well 11/5W- 9A1

Type of record: Driller's log.

Altitude: About 715 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	8	8	
Pennsylvanian system:			
Lower series:			
Sandstone-----	4	12	
Mud, soft, blue-----	23	35	
Steel band-----	--	35	
Sandstone and layers of mud	9	44	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/5W- 9A1--Continued

Material	Thick-- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Sandstone, red-----	35	79	
Sandstone, brown-----	2	81	
Sandstone, red-----	23	104	
Sandstone, brown-----	3	107	
Sandstone, white-----	7	114	

Well 11/5W-17R1

Type of record: Driller's log.

Altitude: About 630 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	
Softpan-----	14	31	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	25	56	
Shale, black-----	5	61	
Coal-----	.5	61.5	
Shale, sandy, light-----	2.5	64	
Sandstone, light-----	4	68	
Shale, sandy, dark-----	26	94	

Well 11/5W-18R1

Type of record: Driller's log.

Altitude: About 660 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Softpan, yellow-----	15	30	
Hardpan, dark-----	15	45	
Softpan-----	12	57	
Pennsylvanian system:			
Lower series:			
Sandstone, hard-----	11	68	
Shale, sandy, blue-----	6	74	
Coal, trace-----	--	74	
Fire clay, hard-----	3	77	
Shale, blue-----	4	81	
Shale, gray-----	4	85	
Shale, sandy, blue-----	13	98	
Limestone, hard, blue-----	2	100	
Shale, dark-----	5	105	
Shale, dark-blue-----	10	115	
Shale, dark-----	21	136	
Shale, hard, dark-blue-----	5	141	
Shale, black-----	12	153	
Shale, sandy, light-----	5	158	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/5W-18R1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Sandstone, hard, gray-----	3	161	
Sandstone, pasty, light-----	5	166	

Well 11/5W-19D1

Type of record: Driller's log.

Altitude: About 640 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Pennsylvanian system:			
Lower series:			
Sandstone, yellow-----	4	18	
Sandstone, pasty, light-gray-	22	40	
Shale, sandy, blue-----	5	45	
Fire clay, hard-----	3	48	
Shale, light-blue-----	42	90	
Shale, sandy, dark, and pyrite-----	1	91	
Sandstone-----	3	94	
Sandstone, white-----	16	110	W.B.
Shale, sandy, light-----	1	111	

Well 11/5W-19D2

Type of record: Driller's log.

Altitude: About 640 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	24	24	
Pennsylvanian system:			
Lower series:			
Sandstone, white-----	20	44	
Shale, sandy, blue-----	25	69	
Sandstone, blue-----	5	74	
Shale, sandy, blue-----	26	100	
Sandstone-----	3	103	
Shale, sandy, blue-----	37	140	
Sandstone, white-----	30	170	W.B.

Well 11/5W-19D4

Type of record: Driller's log.

Altitude: About 640 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Pan yellow-----	4	18	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/5W-19D4--Continued

Material	Thick-ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Shale, gray-----	1	19	
Sandstone-----	45	64	
Shale, gray-----	18.5	82.5	
Sandstone-----	2.5	85	
Shale, sandy, gray-----	5	90	
Sandstone-----	8	98	
Limestone-----	6	104	
Shale, light-----	2	106	
Shale, gray-----	4	110	
Sandstone-----	80	190	
Mississippian(?) system:			
Chester(?) series:			
Limestone-----	4	194	

Well 11/5W-19E1

Type of record: Driller's log.

Altitude: About 590 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	8	8	
Softpan-----	14	22	
Pennsylvanian system:			
Lower series:			
Shale, brown-----	4	26	
Sandstone-----	3	29	
Coal-----	1.5	30.5	
Clay-----	4	34.5	
Shale, gray-----	4	38.5	
Slate, black-----	12	50.5	
Shale, sandy, gray-----	9.5	60	
Shale, dark-gray-----	10	70	
Shale, gray to brown-----	12	82	
Shale, dark-gray-----	4	86	
Shale, sandy, gray-----	22	108	
Shale, dark-gray-----	15	123	

Well 11/5W-19F1

Type of record: Driller's log.

Altitude: About 660 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	
Pennsylvanian system:			
Lower series:			
Sandstone-----	10	27	
Slate, very soft-----	3	30	
Slate, sandy, blue-----	30	60	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/5W-19F1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Fire clay-----	2	62	
Shale, sandy, blue-----	20	82	
Sandstone-----	12	94	
Shale, dark-----	51	145	
Mississippian system:			
Chester? series:			
Sandstone, light-----	21	166	
Limestone-----	20	186	
Shale, limy, green-----	12	198	
Limestone-----	10	208	
Meramec? series:			
Shale, limy-----	15	223	
Limestone-----	52	275	
Shale, limy, light-----	5	280	
Limestone-----	15	295	

Well 11/5W-19F2

Type of record: Driller's log.

Altitude: About 660 feet.

Quaternary system			
Recent and Pleistocene series:			
Surface-----	14.5	14.5	
Pennsylvanian system:			
Lower series:			
Sandstone-----	14.5	29	
Shale, soft, light-----	3	32	
Shale, sandy, gray-----	10	42	
Sandstone-----	4	46	
Shale, sandy, gray-----	8	54	
Sandstone, hard-----	2	56	
Shale, sandy, gray-----	15	71	

Well 11/5W-19H1

Type of record: Driller's log.

Altitude: About 680 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Pennsylvanian system:			
Lower series:			
Sandstone-----	28	43	
Coal-----	5	48	
Shale, sandy, light-blue--	7	55	
Shale, blue-----	21	76	
Sandstone-----	28	104	W.B.
Shale-----	13	117	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/5W-19L1

Type of record: Drillers log.

Altitude: About 650 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	8	8	
Pennsylvanian system			
Lower series:			
Sandstone, yellow-----	18	26	
Shale, sandy, gray-----	3	29	
Sandstone-----	3	32	
Shale, sandy, light-gray-----	2	34	
Sandstone-----	28	62	
Coal-----	.5	62.5	
Clay-----	.5	63	
Sandstone-----	25	88	W.B.
Shale, gray-----	18	106	

Well 11/5W-20M1

Type of record: Driller's log.

Altitude: About 610 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	16	16	
Sand-----	22	38	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	8	46	
Shale, sandy-----	19	65	
Sandstone-----	14	79	W.B.
Shale, gray-----	16	95	

Well 11/5W-27R1

Type of record: Driller's log.

Altitude: About 620 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	11	11	
Softpan, yellow-----	9	20	
Pennsylvanian system:			
Lower series:			
Sandstone, brown-----	32	52	
Sandstone, light-gray-----	4	56	
Sandstone, white-----	10	66	
Sandstone, blue-----	24	90	

Well 11/5W-28C1

Type of record: Driller's log.

Altitude: About 715 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	15	15	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/5W-28C1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system			
Lower series:			
Sandstone-----	48	63	
Shale, sandy-----	9	72	
Sandstone-----	28	100	W.B.

Well 11/5W-30A1

Type of record: Driller's log.

Altitude: About 710 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Pennsylvanian system:			
Lower series:			
Slate, soft, blue-----	18	36	
Clay rock, yellow-----	14	50	
Sandstone, clayey, red----	12	62	
Sandstone, brown-----	5	67	
Sandstone, yellow-----	32	99	W.B.
Shale, sandy, blue-----	3	102	

Well 11/5W-30B1

Type of record: Driller's log.

Altitude: About 710 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Clay, light-----	12	30	
Pennsylvanian system:			
Lower series:			
Slate, blue-----	10	40	
Coal-----	1	41	
Sandstone, yellow-----	10	51	
Sandstone, red-----	19	70	
Sandstone, yellow-----	10	80	
Sandstone, white-----	20	100	W.B.

Well 11/5W-30M1

Type of record: Driller's log.

Altitude: About 595 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	22	22	
Sand-----	20	42	
Hardpan-----	23	65	
Wash-----	8	73	
Pennsylvanian system:			
Lower series:			
Shale, sandy-----	2	75	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/5W-30M1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvania system:			
Lower series:			
Sandstone-----	4	79	W.B.
Shale, sandy, gray-----	2	81	

Well 11/5W-31N1

Type of record: Driller's log.		Altitude: About 640 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Pennsylvanian system:			
Lower series:			
Sandstone-----	20	34	
Shale, sandy, gray-----	10	44	
Sandstone-----	6	50	
Shale, sandy, and sandstone-----	30	80	
Shale, dark-gray-----	8	88	

Well 11/6W- 1D1

Type of record: Driller's log.		Altitude: About 600 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	22	22	W.B.
Hardpan-----	20	42	
Wash, gray-----	38	80	
Sand-----	1	81	
Wash, brown-----	7	88	
Pennsylvanian system:			
Lower series:			
Shale, sandy, blue-----	24	112	
Sandstone, hard, gray-----	2	114	
Shale, sandy, blue-----	12	126	
Sandstone, hard, blue-----	26	152	
Sandstone, hard, white-----	20	172	

Well 11/6W- 2B1

Type of record: Driller's log.		Altitude: About 620 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Hardpan-----	6	20	
Softpan-----	63	83	
Pennsylvanian system:			
Lower series:			
Shale, sandy, gray-----	21	104	W.B.
Sandstone-----	3	107	
Shale, gray-----	9	116	
Sandstone-----	46	162	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/6W- 2P1

Type of record: Driller's log.

Altitude: About 670 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Pennsylvanian system:			
Lower series:			
Slate, blue-----	15	30	
Slate, hard, dark-blue----	12	42	
Coal, trace-----	--	42	
Fire clay, hard-----	3	45	
Shale, sandy, light-----	5	55	
Shale, sandy, blue-----	5	60	
Shale, sandy, light-----	4	64	
Shale, sandy, blue-----	5	69	
Sandstone, white-----	10	79	W.B.
Shale, sandy, blue-----	16	95	
Shale, light-gray-----	12	107	
Shale, sandy, blue-----	10	117	
Shale, dark-gray-----	21	138	
Shale, sandy, gray-----	12	150	
Shale, sandy, light-----	10	160	
Shale, sandy, gray-----	10	170	
Shale, sandy, hard, gray--	1	171	
Shale, sandy, gray-----	7	178	
Shale, gray-----	14	192	
Shale, sandy, gray-----	15	207	
Sandstone, gray-----	27	234	W.B.

Well 11/6W- 3N1

Type of record: Driller's log.

Altitude: About 640 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Pennsylvanian system:			
Lower series:			
Slate, blue-----	31	41	
Coal-----	3	44	
Fire clay-----	2	46	
Clay rock-----	8	54	
Slate, blue-----	6	60	
Coal-----	1	61	
Clay-----	1	62	
Shale, sandy, blue-----	38	100	
Sandstone-----	15	115	
Shale, sandy, blue-----	25	140	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/6W- 3N2

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Pennsylvanian system:			
Lower series:			
Slate, soft, blue-----	4	20	
Fire clay-----	4	24	
Slate, sandy, blue-----	15	39	
Coal-----	1	40	
Fire clay-----	2	42	
Slate, gray-----	18	60	
Fire clay-----	3	63	Trace of coal
Shale, dark-----	27	90	
Shale, sandy, light-----	28	118	
Shale, dark-----	2	120	
Shale, light-----	5	125	
Sandstone-----	2	127	
Shale, sandy, blue-----	3	130	

Well 11/6W- 4Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface and pan-----	22	22	
Pennsylvanian system:			
Lower series:			
Shale, dark-gray-----	29	51	
Coal-----	2	53	
Clay-----	2	55	
Shale, sandy, blue-----	8.5	63.5	
Coal-----	4.5	68	
Sandstone, dark-gray-----	10	78	
Shale, sandy, dark-gray-----	2	80	
Sandstone-----	4	84	
Shale, gray-----	14	98	
Sandstone-----	2	100	
Shale, sandy, gray-----	2	102	
Sandstone-----	10	112	
Shale, sandy, gray-----	10	122	
Sandstone-----	22	144	
Shale, sandy, dark-gray-----	4	148	
Sandstone-----	27	175	
Record missing-----	150	325	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/6W- 4R1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Pennsylvanian system:			
Lower series:			
Slate, blue-----	16	32	
Coal-----	2	34	
Fire clay-----	3	37	
Slate, blue-----	6	43	
Coal, trace-----	--	43	
Fire clay-----	6	49	
Clay rock, hard-----	3	52	
Slate, dark-blue-----	5	57	
Coal, trace-----	--	57	
Fire clay, hard-----	1	58	
Shale, sandy, light-----	2	60	
Shale, sandy, gray-----	15	75	
Shale, gray-----	15	90	
Slate, black-----	10	100	

Well 11/6W- 4R2

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	12	12	
Pennsylvanian system:			
Lower series:			
Shale, soft-----	35	47	
Coal-----	1	48	
Shale, sandy-----	3	51	
Shale, blue-----	43	94	
Sandstone-----	30	124	
Sandstone, white-----	6	130	
Shale, blue-----	16	146	
Sandstone-----	24	170	W. B.

Well 11/6W- 5E1

Type of record: Driller's log. Altitude: About 575 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Pennsylvanian system:			
Lower series:			
Coal-----	2	20	
Fire clay-----	5	25	
Shale, sandy, light-----	10	35	
Sandstone, white-----	35	70	W. B.

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/6W- 6H1

Type of record: Driller's log.

Altitude: About 590 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan, yellow-----	6	16	
Hardpan, gray-----	39	55	
Pennsylvanian system:			
Lower series:			
Sandstone-----	20	75	
Shale, sandy, light-----	20	95	
Sandstone, white-----	25	120	W.B.

Well 11/6W- 7B1

Type of record: Driller's log.

Altitude: About 590 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	21	21	
Sand-----	1	22	
Hardpan, gray-----	20	42	
Softpan, gray-----	9	51	
Sand, dirty, and gravel-----	6	57	
Softpan, dark-----	28	85	
Wash, soft, dark-----	8	93	
Pennsylvanian system:			
Lower series:			
Slate, soft, blue-----	3	96	
Shale, sandy, white-----	6	102	
Sandstone-----	6	108	W.B.
Shale, sandy, light-----	2	110	

Well 11/6W- 7K1

Type of record: Driller's log.

Altitude: About 585 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Open well-----	14	14	
Pan, sandy-----	55	69	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	1	70	
Coal-----	1	71	
Clay-----	6	77	
Sandstone-----	3	80	
Shale, sandy, gray-----	16	96	
Shale, dark-gray-----	69	165	
Shale, sandy, gray-----	62	227	
Sandstone-----	13	240	
Coal-----	.5	240.5	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/6W- 7K1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system: Lower series: Clay-----	2.5	243	
Mississippian? system: Chester? series: Shale, sandy, gray-----	30	273	
Sandstone-----	19	292	W.B.

Well 11/6W- 7L1			
Type of record: Driller's log.		Altitude: About 580 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan-----	25	35	
Pennsylvanian system:			
Lower series:			
Shale, blue-----	15	50	
Coal-----	2	52	
Fire clay and light shale-	5	57	
Shale, blue-----	17	74	
Coal-----	3	77	
Sandstone-----	9	86	
Shale, light-----	6	92	
Sandstone-----	51	143	W.B.

Well 11/6W- 8P1			
Type of record: Driller's log.		Altitude: About 590 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan-----	21	36	
Pennsylvanian system:			
Lower series:			
Slate, blue-----	4	40	
Coal-----	1	41	
Clay-----	3	44	
Shale, light-----	16	60	
Coal-----	1	61	
Clay-----	1	62	
Shale, sandy, light-----	20	82	
Sandstone-----	2	84	
Shale, sandy, blue-----	6	90	

Well 11/6W- 9B1			
Type of record: Driller's log.		Altitude: About 665 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/6W- 9B1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, sandy-----	9	23	
Pennsylvanian system:			
Lower series:			
Shale, boots, gray-----	20	43	
Coal-----	1	44	
Shale, boots, light-gray-----	9	53	
Coal-----	1	54	
Fire clay-----	5	59	
Shale, boots, gray-----	2	61	
Slate, black-----	9	70	
Shale, boots, gray-----	3	73	
Shale, sandy, gray-----	10	83	
Shale, sandy, boots, gray-----	8	91	
Shale, sandy, gray-----	13	104	
Shale, sandy, boots, gray-----	5	109	
Sandstone, dark-gray-----	31	140	
Sandstone, light-gray-----	12	152	
Shale, sandy, gray-----	7	159	
Sandstone, gray-----	1	160	
Shale, sandy, gray-----	24	184	
Sandstone, light-gray-----	3	187	
Shale, sandy, gray-----	4	191	
Sandstone, dark-gray-----	9	200	
Shale, sandy, gray-----	3	203	
Sandstone, gray-----	11	214	
Mississippian? system:			
Chester? series:			
Limestone, gray-----	10	224	
Sandstone, white-----	13	237	
Sandstone, dark-gray-----	21	258	
Shale, sandy, gray-----	8	266	
Shale, solid, dark-gray-----	7	273	
Shale, sandy, gray-----	6	279	
Sandstone, gray-----	3	282	
Sandstone, white-----	12	294	W.B.
Shale, sandy, gray-----	2	296	

Well 11/6W- 9C1

Type of record: Driller's log.

Altitude: About 650 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	12	12	
Hardpan-----	5	17	
Pennsylvanian system:			
Lower series:			
Sandstone, brown-----	5	22	
Shale, gray-----	27	49	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/6W- 9C1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Shale, sandy, gray-----	7	56	
Shale, gray-----	13	69	
Coal-----	3	72	
Fire clay-----	3	75	
Shale, sandy, gray-----	7	82	
Shale, gray-----	4	86	
Coal-----	5	91	
Fire clay-----	7	98	
Shale, sandy, gray-----	5	103	
Shale, gray-----	3	106	
Shale, sandy, gray-----	20	126	
Shale, gray-----	8	134	
Sandstone, gray-----	21	155	
Shale, black-----	26	181	
Shale, gray-----	24	205	
Mississippian? system:			
Chester? series:			
Shale, sandy, gray-----	35	240	
Sandstone, gray-----	30	270	
Sandstone, white-----	8	278	W.B.
Shale, sandy, gray-----	12	290	
Well 11/6W-10E1			
Type of record: Driller's log.		Altitude: About 635 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Softpan, yellow-----	10	25	
Softpan, dark-----	11	36	
Pennsylvanian system:			
Lower series:			
Sandstone, pasty-----	3	39	
Clay-----	6	45	
Sandstone, brown-----	10	55	
Slate, blue-----	25	80	
Well 11/6W-11B1			
Type of record: Driller's log.		Altitude: About 660 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Pennsylvanian system:			
Lower series:			
Sandstone-----	5	23	
Slate-----	10	33	trace of coal at 25 ft.
Fire clay-----	6	39	
Shale, dark-----	10	49	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/6W-11B1--Continued

Material	Thick-ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Shale, sandy, blue-----	12	61	
Sandstone, blue-----	18	79	
Sandstone, white-----	12	91	W.B.
Shale, sandy, blue-----	2	93	

Well 11/6W-11D1

Type of record: Driller's log.

Altitude: About 645 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	24	24	
Pennsylvanian system:			
Lower series:			
Slate, blue-----	10	34	
Slate, black-----	6	40	
Coal, trace-----	--	40	
Clay-----	3	43	
Sandstone, hard, brown-----	4	47	
Shale, sandy, light-----	6	53	
Shale, blue-----	4	57	
Shale, sandy, light-----	3	60	
Shale, sandy, blue-----	5	65	
Shale, sandy, light-----	6	71	
Shale, sandy, blue-----	14	85	
Sandstone-----	4	89	W.B.
Shale, blue-----	4	93	

Well 11/6W-11G1

Type of record: Driller's log.

Altitude: About 665 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Clay-----	10	28	
Pennsylvanian system:			
Lower series:			
Slate, blue-----	14	42	
Shale, sandy, dark-----	12	54	
Shale, sandy, blue-----	33	87	
Sandstone, gray-----	3	90	W.B.
Sandstone, white-----	3	93	W.B.

Well 11/6W-11N1

Type of record: Driller's log.

Altitude: About 610 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	25	25	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/6W-11N1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Hardpan-----	38	63	
Pennsylvanian system:			
Lower series:			
Rock, black-----	2	65	Limestone (?)
Shale, blue-----	11	76	
Sandstone-----	8	84	W.B.
Shale, blue-----	6	90	

Well 11/6W-13G1

Type of record: Driller's log.

Altitude: About 585 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Sand-----	6	24	
Pennsylvanian system:			
Lower series:			
Shale, blue-----	7	31	
Shale, black-----	44	75	
Shale, blue-----	10	85	
Slate-----	5	90	
Shale, light-----	10	100	
Sandstone-----	10	110	W.B.
Shale, light-----	3	113	

Well 11/6W-14G1

Type of record: Driller's log.

Altitude: About 620 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14.5	14.5	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	13.5	28	
Coal-----	1	29	
Clay-----	2	31	
Shale, gray-----	8	39	
Sandstone-----	7.5	46.5	
Coal-----	.5	47	
Shale, sandy, gray-----	8	55	
Sandstone-----	20	75	
Shale, sandy, gray-----	15	90	
Sandstone-----	15	105	
Shale, sandy, dark-gray----	25	130	
Sandstone-----	20	150	
Shale, sandy, gray-----	25	175	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/6W-14G1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Sandstone-----	21	196	
Mississippian system:			
Chester? series:			
Shale, limy-----	1	197	
Limestone-----	11	208	
Shale, gray-----	20	228	
Limestone-----	2	230	
Shale, limy-----	2	232	
Limestone-----	13	245	

Well 11/6W-14Q1

Type of record: Driller's log.

Altitude: About 590 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	19	19	
Hardpan-----	9	28	
Pennsylvanian system:			
Lower series:			
Sandstone, yellow-----	8	36	W.B.
Shale, light-----	7	43	
Shale, blue-----	47	90	
Sandstone-----	10	100	W.B.

Well 11/6W-15D1

Type of record: Driller's log.

Altitude: About 600 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	14	14	
Quicksand-----	6	20	
Muck, blue-----	13	33	
Pennsylvanian system:			
Lower series:			
Shale, black-----	10.5	43.5	
Coal-----	.5	44	
Fire clay-----	1.5	45.5	
Sandstone-----	3.5	49	
Shale, sandy-----	6	55	
Shale, gray-----	23	78	
Shale, black-----	19	97	
Sandstone-----	24	121	
Shale, gray-----	39	160	W.B.
Sandstone-----	15	175	W.B.
Sandstone, white-----	11	186	
Shale, gray-----	--	186	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/6W-16E1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface soil-----	6	6	
Pennsylvanian system:			
Lower series:			
Shale, blue-----	10	16	
Coal-----	3	19	
Clay, shaly, and sandstone	9	28	
Shale-----	15.5	43.5	
Shale, dark-----	12	55.5	
Coal-----	3.5	59	
Clay, shaly-----	1	60	

Well 11/6W-16N1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	11	11	
Pennsylvanian system:			
Lower series:			
Sandstone-----	8	19	
Shale, brown-----	7	26	
Sandstone-----	2	28	
Shale, sandy, gray-----	5	33	
Coal-----	1	34	
Shale, dark-gray-----	8	42	
Sandstone-----	2	44	
Shale, sandy, dark-gray---	5.5	49.5	
Sandstone-----	1.5	51	W.B.
Shale, dark-gray-----	24	75	

Well 11/6W-17C1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan-----	10	25	
Pennsylvanian system:			
Lower series:			
Slate, blue-----	24	49	
Coal-----	1	50	
Clay-----	3	53	
Shale, sandy, light-----	19	72	
Coal-----	1	73	
Clay, hard-----	1	74	
Sandstone-----	3	77	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/6W-17C1--Continued

Material	Thick-ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Shale, light-----	5	82	
Shale, sandy, blue-----	18	100	

Well 11/6W-17C3

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	19	19	
Pan, sandy-----	6	25	
Hardpan-----	2	27	
Softpan, soft, sandy-----	22	49	
Pennsylvanian system:			
Lower series:			
Shale, soft, gray-----	11	60	
Sandstone-----	14	74	W.B.
Shale, sandy, light-----	8	82	
Shale, hard, dark-----	71	153	
Sandstone, dark-----	17	170	W.B.

Well 11/6W-17E1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	4	4	
Clay-----	13	17	
Hardpan-----	10	27	
Pennsylvanian system:			
Lower series:			
Slate, blue-----	25	52	
Slate, dark-blue-----	4	56	
Coal-----	2	58	
Fire clay-----	1	59	
Slate, gray-----	11	70	
Fire clay-----	20	90	
Sandstone, white-----	10	100	W.B.
Shale, black-----	96	196	
Shale, gray-----	52	248	
Mississippian system:			
Chester series:			
Sandstone, white-----	6	254	
Shale, limy, soft, gray-----	46	300	
Limestone-----	8	308	
Shale, sandy, dark-----	6	314	
Shale, sandy, gray-----	5	319	
Limestone-----	10	329	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/6W-17E1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Mississippian system:			
Chester series:			
Shale, limy-----	19	348	
Meramec? series:			
Limestone-----	52	400	"Salt water"

Well 11/6W-17F1

Type of record: Driller's log.

Altitude: About 650 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Hardpan-----	8	22	
Pennsylvanian system:			
Lower series:			
Shale, blue-----	32	54	
Coal-----	2.5	56.5	
Clay-----	2.5	59	
Shale, sandy, light-----	10	69	
Shale, sandy, blue-----	16	85	
Coal-----	1	86	
Clay, hard-----	3	89	
Shale, sandy, light-----	6	95	
Shale, dark-blue-----	25	120	

Well 11/6W-17H1

Type of record: Driller's log.

Altitude: About 610 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	8	8	
Clay, tough, light-----	10	18	
Pennsylvanian system:			
Lower series:			
Shale, blue-----	12	30	
Slate, black-----	9	39	
Coal-----	2.5	41.5	
Fire clay-----	2	43.5	
Sandstone-----	5	48.5	
Shale, sandy-----	10	58.5	
Slate, blue-----	15	73.5	
Coal-----	2.5	76	
Fire clay-----	1	77	
Shale, sandy, light-----	10	87	
Sandstone, white-----	11	98	W.B.

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/6W-19A2

Type of record: Driller's log. Altitude: About 590 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan-----	33	43	
Pennsylvanian system:			
Lower series:			
Slate, sandy, gray-----	17	60	
Coal-----	2.5	62.5	
Clay, hard-----	3.5	66	
Shale, sandy, blue-----	26	92	
Sandstone-----	8	100	W.B.

Well 11/6W-19B1

Type of record: Driller's log. Altitude: About 585 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface; caly, soft, yellow	12	12	
Hardpan, gray-----	18	30	
Softpan, gray-----	14	44	
Pennsylvanian system:			
Lower series:			
Shale, soft, light-----	12	56	
Shale, hard, dark-----	13	69	
Coal, hard-----	1	70	
Shale, dark, and hard sandstone-----	3	73	
Shale, soft, light-----	4	77	
Shale, hard, dark-----	19	96	
Sandstone, hard, dark-----	24	120	W.B.
Sandstone, moderately-hard, light-----	12	132	W.B.

Well 11/6W-19H1

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

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Sand-----	10	20	
Hardpan-----	20	40	
Softpan-----	17	57	
Pennsylvanian system:			
Lower series:			
Slate, blue-----	3	60	
Shale, sandy-----	30	90	
Sandstone-----	10	100	W.B.
Shale, black-----	3	103	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/6W-19J1

Type of record: Driller's log. Altitude: About 590 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Open well-----	17	73	
Pan-----	3	20	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	10	30	
Shale, sandy, gray-----	30	60	
Shale, dark-gray-----	3	63	
Coal-----	2	65	
Clay-----	4	69	
Shale, sandy, gray-----	6	75	
Coal-----	2	77	
Clay-----	3	80	

Well 11/6W-20N1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan-----	8	18	
Pennsylvanian system:			
Lower series:			
Clay rock-----	10	28	
Slate-----	12	40	
Coal-----	2.5	42.5	
Fire clay-----	4.5	47	
Sandstone-----	3	50	
Shale, blue-----	10	60	
Slate, blue-----	10	70	
Coal-----	2.5	72.5	
Fire clay-----	2	74.5	
Shale, sandy-----	6	80.5	
Sandstone, dark-----	3	83.5	W.B.
Sandstone, gray-----	10.5	94	W.B.

Well 11/6W-20P1

Type of record: Driller's log. Altitude: About 590 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan, gray-----	65	75	
Sand-----	8	83	
Hardpan, gray-----	4	87	
Sand, coarse-----	1	88	W.B.

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/6W-21D1			
Type of record: Driller's log.			Altitude: About 680 feet.
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Softpan, yellow-----	18	38	
Pennsylvanian system:			
Lower series:			
Shale, blue-----	10	48	
Coal-----	2.5	50.5	
Clay-----	2.5	53	
Slate, gray-----	10	63	
Coal-----	2	65	
Clay-----	3	68	
Shale, sandy, blue-----	48	116	
Sandstone, white-----	4	120	
Shale, sandy, blue-----	6	126	
Shale, dark-----	8	134	

Well 11/6W-21L1			
Type of record: Driller's log.			Altitude: About 600 feet.
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	32	32	
Hardpan-----	15	47	
Pennsylvanian system:			
Lower series:			
Coal-----	2	49	
Clay-----	2	51	
Slate, soft, gray-----	13	64	
Coal-----	1	65	
Clay, soft-----	5	70	
Shale, sandy, hard, light-----	35	105	
Slate, black-----	26	131	
Slate, sandy, gray-----	10	141	
Sandstone, gray-----	12	153	
Shale, sandy, blue-----	64	217	
Sandstone, gray-----	6	223	
Mississippian? system:			
Chester? series:			
Sandstone, white-----	14	237	W.B.
Shale, limy-----	2	239	

Well 11/6W-21P1			
Type of record: Driller's log.			Altitude: About 575 feet.
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Open well-----	33	33	
Hardpan-----	23	56	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/6W-21P1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	2	58	W.B.
Clay, tough, hard-----	3	61	
Well 11/6W-21P2			
Type of record: Driller's log.		Altitude: About 575 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	W.B.
Hardpan, gray-----	7	22	
Softpan, dark-----	22	44	
Wash, yellow-----	9	53	
Softpan-----	2	55	
Sand and gravel-----	7	62	
Well 11/6W-21P3			
Type of record: Driller's log.		Altitude: About 575 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	W.B.
Sand, dirty-----	3	18	
Hardpan, gray-----	9	27	
Hardpan, soft-----	17	44	
Wash, yellow-----	5	49	
Gravel, yellow-----	1	50	
Softpan-----	7	57	
Sand and gravel, dirty----	3	60	
Softpan-----	2	62	
Sand and wash, dirty-----	4	66	
Sand and gravel-----	4	70	
Well 11/6W-22H1			
Type of record: Driller's log.		Altitude: About 645 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan-----	3	18	
Pennsylvanian system:			
Lower series:			
Sandstone, hard-----	3	21	
Shale, sandy, hard-----	15	36	
Slate, blue-----	3	39	
Coal, trace-----	--	39	
Shale, sandy, hard-----	6	45	
Shale, sandy, blue-----	19	64	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/6W-22H1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Sandstone-----	1	65	W.B.
Shale, sandy, blue-----	6	71	
Well 11/6W-23A1			
Type of record: Driller's log.		Altitude: About 600 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	10	10	
Shale, sandy-----	13	23	
Quicksand-----	1	24	
Pennsylvanian system:			
Lower series:			
Coal-----	2	26	
Fire clay-----	3	29	
Shale, gray-----	22	51	
Sandstone-----	9	60	
Shale, sandy-----	5	65	
Shale, gray-----	29	94	
Shale, sandy-----	11	105	W.B.
Well 11/6W-23N1			
Type of record: Driller's log.		Altitude: About 624 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface; clay-----	16	16	
Pennsylvanian system:			
Lower series:			
Shale, soft-----	37	53	
Sandstone, hard-----	3	56	
Shale and sandstone-----	80	136	
Sandstone-----	14	150	
Sandstone, hard-----	25	175	
Mississippian system:			
Chester? series:			
Limestone and shale-----	20	195	
Sandstone, hard-----	20	215	
Shale and sandstone-----	17	232	
Limestone, hard-----	29	261	
Shale, blue, and limy sandstone-----	9	270	
Meramec? series:			
Limestone and dolomite-----	29	299	
Limestone and chert-----	29	328	
Limestone-----	6	334	
Sandstone, hard-----	10	344	T.D. 1,497 ft.

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/6W-23P1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Dug well-----	25	25	
Pennsylvanian system:			
Lower series:			
Shale, sandy, gray-----	6	31	
Sandstone-----	4	35	
Shale, sandy, gray-----	12	47	
Coal-----	1	48	
Clay-----	4	52	
Shale, dark-gray-----	19	71	

Well 11/6W-24H1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Sand-----	4	19	
Hardpan-----	23	42	
Pennsylvanian system:			
Lower series:			
Coal and fire clay-----	2	44	
Shale, sandy, gray-----	12	56	
Slate, blue-----	32	88	
Shale, sandy, light-----	5	93	
Shale, light-----	4	97	
Sandstone-----	6	103	W.B.
Shale, sandy, light-----	2	105	

Well 11/6W-26B1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	9.5	9.5	
Pennsylvanian system:			
Lower series:			
Sandstone-----	13	22.5	
Slate, blue-----	30	52.5	
Coal and fire clay-----	1	53.5	
Shale, light-----	10	63.5	
Shale, dark-----	46	109.5	
Shale, sandy, light-----	18	127.5	
Mississippian? system:			
Chester? series:			
Sandstone, white-----	18	145.5	W.B.
Shale, limy-----	2.5	148	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/6W-26B2

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	11	11	
Pennsylvanian system:			
Lower series:			
Sandstone-----	12	23	
Slate, blue-----	15	38	
Shale, clayey-----	3	41	
Slate, blue-----	12	53	
Coal-----	2	55	
Fire clay-----	2	57	
Shale, sandy, gray-----	66	123	
Mississippian? system:			
Chester? series:			
Sandstone, light-----	8	131	
Shale, limy-----	20	151	
Shale, chunky, dark-----	9	160	
Limestone-----	38	198	

Well 11/6W-27D1

Type of record: Driller's log. Altitude: About 590 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan-----	11	26	
Pennsylvanian system:			
Lower series:			
Slate, blue-----	9	35	
Coal-----	1	36	
Slate, blue-----	7	43	
Coal-----	1	44	
Clay-----	3	47	
Clay, sandy, white-----	8	55	
Shale, sandy, gray-----	6	61	
Coal, trace-----	--	61	
Slate, blue-----	3	64	
Slate, sandy, dark-----	25	89	

Well 11/6W-27G1

Type of record: Driller's log. Altitude: About 585 feet.

Quaternary system:			
Recent and Pleistocene series:			
Open well-----	20	20	
Pan, sandy-----	12	32	
Pennsylvanian system:			
Lower series:			
Shale, soft, yellow-----	9	41	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/6W-27G1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Sandstone-----	1	42	
Shale, dark-gray-----	11	53	
Coal, trace-----	--	53	
Clay-----	2	55	
Shale, gray-----	17	72	
Sandstone-----	16	88	
Shale, gray-----	12	100	
Sandstone-----	30	130	
Shale, sandy, dark-gray----	10	140	

Well 11/6W-28D1

Type of record: Driller's log.

Altitude: About 575 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	
Hardpan-----	13	30	
Gravel and hardpan-----	22	52	
Hardpan-----	13	65	
Pennsylvanian system:			
Lower series:			
Sandstone-----	35	100	W.B.
Coal-----	3	103	
Shale, blue-----	2	105	

Well 11/6W-29A1

Type of record: Driller's log.

Altitude: About 575 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Hardpan-----	35	55	
Wash, yellow-----	6	61	
Pennsylvanian system:			
Lower series:			
Slate, sandy, gray-----	4	65	
Slate, blue-----	2	67	
Shale, sandy, blue-----	15	82	
Sandstone, hard-----	16	98	
Slate, dark-----	4	102	
Shale, sandy, blue-----	20	122	
Shale, sandy, gray-----	17	139	
Sandstone, gray-----	10	149	W.B.
Shale, sandy, blue-----	4	153	
Shale, blue-----	16	169	
Shale, sandy, dark-blue-----	11	180	
Shale, sandy, blue-----	4	184	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/6W-29A1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Shale, dark-----	14	198	
Shale, light-gray-----	3	201	
Shale, sandy, light-----	6	207	
Shale, blue-----	6	213	
Shale, sandy, blue-----	7	220	
Mississippian? system:			
Chester? series:			
Sandstone, gray-----	7	227	
Shale, limy-----	10	237	

Well 11/6W-29J1

Type of record: Driller's log.

Altitude: About 570 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Softpan, dark-----	21	39	
Sand, dirty-----	2	41	
Softpan, yellow-----	8	49	
Pennsylvanian system:			
Lower series:			
Slate, blue-----	3	52	
Slate, sandy, gray-----	12	64	
Shale, sandy, blue-----	8	72	
Shale, sandy, light-----	5	77	
Sandstone, white-----	5	82	W.B.
Shale, sandy, gray-----	4	86	
Limestone, dark-----	2	88	
Sandstone, white-----	7	95	W.B.
Shale, sandy, blue-----	7	102	
Sandstone, hard, blue-----	8	110	
Shale, sandy, gray-----	3	113	
Sandstone, light-blue-----	18	131	
Shale, sandy, gray-----	17	148	
Sandstone, pasty, gray-----	5	153	
Shale, sandy, blue-----	10	163	

Well 11/6W-29M1

Type of record: Driller's log.

Altitude: About 570 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Mud-----	74	90	
Sand, green-----	15	105	"Log near bottom"
Pennsylvanian system:			
Lower series:			
Shale, gray-----	3	108	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/6W-29M1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Shale, sandy-----	7	115	
Sandstone, white-----	20	135	W.B.

Well 11/6W-31C1

Type of record: Driller's log.

Altitude: About 600 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Pennsylvanian system:			
Middle? series:			
Shale, gray-----	8	24	
Shale, sandy, gray-----	7.5	31.5	
Sandstone-----	2.5	34	
Lower? series:			
Shale, sandy, dark-gray-----	2	36	
Sandstone-----	1	37	
Shale, sandy, gray-----	10	47	
Shale, sandy, dark-gray-----	34	81	
Coal-----	3	84	
Clay-----	6	90	
Shale, sandy, gray-----	2	92	
Shale, sandy, dark-gray-----	3	95	
Coal-----	1	96	
Clay-----	1	97	
Shale, sandy, dark-gray-----	3	100	
Sandstone-----	3	103	
Shale, sandy, gray-----	2	105	
Sandstone-----	2	107	
Shale, sandy, gray-----	5	112	
Shale, sandy, dark-gray-----	4	116	
Sandstone-----	2	118	
Shale, sandy, gray-----	4	122	
Shale, sandy, dark-gray-----	11	133	

Well 11/6W-31P1

Type of record: Driller's log.

Altitude: About 600 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Softpan, yellow-----	10	25	
Softpan, gray-----	39	64	
Sand, gray-----	12	76	
Sand and gravel-----	10	86	W.B.

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/6W-32B1

Type of record: Driller's log.

Altitude: About 560 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Softpan, dark-----	10	25	
Hardpan, gray-----	10	35	
Softpan, dark-----	10	45	
Softpan, yellow-----	16	61	
Sand, dirty, and some gravel--	2	63	
Wash, gray-----	37	100	
Gravel-----	--	100	W.B.
Pennsylvanian system:			
Lower series:			
Shale, sandy, gray-----	4	104	
Sandstone, gray-----	3	107	
Sandstone, white-----	4	111	W.B.
Shale, dark-blue-----	10	121	

Well 11/6W-32D2

Type of record: Driller's log.

Altitude: About 575 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	14	14	
Sandstone-----	6	20	Cemented sand (?)
Shale, gray-----	6	26	Clay (?)
Silt-----	39	65	
Coal-----	2	67	
Fire clay-----	3	70	Clay (?)
Silt-----	15	85	
Quicksand-----	20	105	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	6	111	
Sandstone-----	14	125	W.B.

Well 11/6W-32E1

Type of record: Driller's log.

Altitude: About 585 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan-----	15	25	
Wash-----	4	29	
Pennsylvanian system:			
Lower series:			
Slate, blue-----	6	35	
Slate, gray-----	30	65	
Coal-----	1.5	66.5	
Clay-----	1	67.5	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/6W-32E1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Shale, dark-blue-----	60	127.5	
Sandstone-----	17	144.5	
Shale, dark-blue-----	60	204.5	
Shale, gray-----	25	229.5	
Shale, dark-blue-----	15	244.5	
Sandstone-----	15	259.5	
Coal and shale-----	1	260.5	
Mississippian system:			
Chester series:			
Limestone-----	16	276.5	
Shale, gray-----	16	292.5	
Limestone-----	8	300.5	
Shale, light-gray-----	35	335.5	
Limestone-----	20	355.5	
Sandstone-----	4	359.5	
Limestone-----	8	367.5	
Sandstone, dark-----	12	379.5	
Limestone-----	4	383.5	
Sandstone-----	21	404.5	
Limestone-----	12	416.5	
Sandstone, light-----	11	427.5	
Meramec (?) series:			
Limestone-----	3.5	431	
Sandstone, dark-----	7	438	

Well 11/6W-35F1

Type of record: Driller's log.

Altitude: About 590 feet.

Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	28	28	
Pan-----	16	44	
Pennsylvanian system:			
Lower series:			
Sandstone-----	18.5	62.5	
Shale, sandy, gray-----	.5	63	
Sandstone-----	27	90	W.B.

Well 11/6W-35J1

Type of record: Driller's log.

Altitude: About 560 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	12	12	
Pennsylvanian system:			
Lower series:			
Sandstone, yellow-----	18	30	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/6W-35J1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Sandstone, white-----	6	36	
Shale, sandy, gray-----	10	46	
Sandstone, white-----	16	62	W.B.
Well 11/6W-35N1			
Type of record: Driller's log.		Altitude: About 600 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Pennsylvanian system:			
Lower series:			
Sandstone, yellow-----	59	74	W.B.
Shale, blue-----	11	85	
Well 11/6W-36J1			
Type of record: Driller's log.		Altitude: About 605 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	21	21	
Pennsylvanian system:			
Lower series:			
Shale, sandy, gray-----	78	99	
Sandstone-----	2	101	
White top-----	6	107	
Shale, gray-----	11	118	
Well 11/7W-2H1			
Type of record: Driller's log.		Altitude: About 600 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Pan-----	24	34	
Sand-----	6	40	
Pan-----	32	72	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	26	98	
Clay-----	7	105	
Shale, sandy, light-----	13	118	
Rock, light-----	1	119	Limestone (?)
Sandstone, light-----	10	129	W. B.
Shale, dark-gray-----	1	130	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W- 3A1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan and sand-----	62	77	
Pennsylvanian system:			
Lower series:			
Sandstone-----	16	93	
Shale, gray-----	7	100	
Shale, dark-----	10	110	
Coal-----	3	113	
Shale, dark-----	7	120	
Shale, sandy-----	11	131	
Sandstone-----	20	151	W.B.
Shale, dark-----	19	170	

Well 11/7W- 3D1

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

Open well-----	28	28	
Pennsylvanian system:			
Middle series:			
Slate, black-----	10	38	
Shale, light-----	8	46	
Shale, dark-----	15	61	
Shale, light-----	59	120	
Sandstone-----	50	170	
Lower? series:			
Shale, blue-----	2	172	
Sandstone-----	3	175	
Shale, blue-----	1	176	
Shale, sandy-----	55	231	
Shale, gray-----	19	250	
Sandstone-----	30	280	W.B.

Well 11/7W- 4M1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Hardpan, gray-----	30	46	
Softpan-----	2	48	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	16	64	
Shale, gray-----	39	103	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W- 5M1

Type of record: Driller's log.

Altitude: About 640 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Sand-----	9	25	
Hardpan and gravel-----	30	55	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	22	77	
Coal-----	2	79	
Shale, blue-----	21	100	
Sandstone-----	10	110	W.B.

Well 11/7W- 5Q1

Type of record: Driller's log.

Altitude: About 660 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	
Softpan, yellow-----	10	27	
Softpan, dark-----	12	39	
Softpan, yellow-----	8	47	
Wash, dark-----	3	50	
Pennsylvanian system:			
Middle series:			
Shale, sandy, gray-----	45	95	
Coal, trace-----	--	95	
Fire clay-----	3	98	
Shale, sandy, light-----	5	103	
Shale, sandy, gray-----	10	113	
Slate, black-----	3	116	
Coal-----	2	118	
Fire clay, hard-----	3	121	
Slate, black-----	5	126	
Coal-----	1	127	
Slate, sandy, gray-----	8	135	

Well 11/7W- 7H1

Type of record: Driller's log.

Altitude: About 610 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Hardpan, gray-----	22	36	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	10	46	
Slate, sandy, blue-----	30	76	
Sandstone, blue-----	5	81	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W- 7H1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	3.5	84.5	
Fire clay, dark-----	1.5	86	
Shale, sandy, blue-----	25	111	
Shale, white-----	5	116	
Sandstone, blue-----	3	119	
Shale, sandy, blue-----	5	124	
Sandstone, blue-----	8	132	

Well 11/7W- 7L1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Pennsylvanian system:			
Middle series:			
Sandstone-----	7	27	W.B.
Shale-----	28	55	

Well 11/7W- 7N1

Type of record: Driller's log. Altitude: About 615 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	21	21	
Pennsylvanian system:			
Middle series:			
Sandstone, white-----	21	42	
Sandstone, soft, yellow-----	8	50	
Slate, sandy, gray-----	3	53	
Slate, brown-----	8	61	
Slate, sandy, gray-----	84	145	
Sandstone-----	25	170	W.B.

Well 11/7W- 7Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	13	13	
Gravel, small-----	4	17	W.B.
Sand, coarse-----	10	27	W.B.
Pennsylvanian system:			
Middle series:			
Soapstone-----	2	29	
Slate-----	1	30	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W- 8B1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent Pleistocene series:			
Surface-----	15	15	
Hardpan-----	46	61	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	2	63	
Slate, black-----	5	68	
Shale, light-----	7	75	
Shale, gray-----	6	81	
Sandstone-----	3	84	
Shale, gray-----	2	86	
Coal-----	5	91	
Shale, light-----	4	95	
Rock, black-----	5	100	Limestone (?)
Shale, light-----	11	111	
Shale, blue-----	3	114	

Well 11/7W- 8B2

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	4	4	
Hardpan-----	14	18	
Gravel-----	2	20	W.B.
Hardpan-----	12	32	

Well 11/7W- 9J1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Hardpan-----	56	72	
Sand and hardpan-----	33	105	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	8	113	

Well 11/7W-10C1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan-----	22	40	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-12C1

Type of record: Driller's log. Altitude: About 590 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Hardpan-----	76	90	
Wash, gray-----	12	102	
Wash, brown-----	5	107	
Pennsylvanian system:			
Lower series:			
Sandstone, brown-----	23	130	W.B.

Well 11/7W-12J1

Type of record: Driller's log. Altitude: About 585 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan-----	40	58	
Sand-----	10	68	W.B.
Pennsylvanian system:			
Lower series:			
Coal-----	1	69	
Fire clay-----	1	70	

Well 11/7W-12N1

Type of record: Driller's log. Altitude: About 580 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Sand-----	1	17	
Hardpan-----	28	45	
Gravel, small-----	1	46	
Softpan-----	8	54	
Pennsylvanian system:			
Lower series:			
Slate, sandy, gray-----	30	84	
Coal-----	1	85	
Clay-----	2	87	
Shale, sandy, light-----	7	94	

Well 11/7W-15P1

Type of record: Driller's log. Altitude: About 625 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Quicksand-----	14	30	
Mud, sand, and gravel-----	35	65	
Quicksand-----	54	119	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-15P1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Shale, sandy, light-gray-----	35	154	
Shale, gray-----	16	170	
Slate, black-----	2	172	
Coal-----	2	174	
Fire clay-----	2	176	
Shale, sandy, gray-----	3	179	
Limestone, porous, gray-----	11	190	W.B.
Shale, gray-----	--	190	

Well 11/7W-15Q1

Type of record: Driller's log.

Altitude: About 610 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	
Hardpan-----	77	94	
Sand and gravel-----	4	98	W.B.

Well 11/7W-16C1

Type of record: Driller's log.

Altitude: About 630 feet.

Quaternary system:			
Recent and Pleistocene series:			
Soil-----	4	4	
Clay-----	6	10	
Hardpan, yellow-----	70	80	
Sand-----	11	91	
Pennsylvanian system:			
Middle series:			
Slate, black-----	8	99	
Coal-----	1	100	
Fire clay-----	2	102	
Shale, gray-----	44	146	
Sandstone, white-----	2	148	W.B.
Lower? series:			
Slate, blue-----	1	149	

Well 11/7W-16G1

Type of record: Driller's log.

Altitude: About 630 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	12	12	
Sandstone, yellow-----	13	25	Cemented sand (?)
Hardpan-----	55	80	
Sand-----	2	82	
Gravel and sand-----	10	92	W.B.

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-16K1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Hardpan-----	60	80	
Sand, fine-----	9	89	
Hardpan-----	4	93	
Sand-----	14	107	
Pennsylvanian system:			
Lower? series:			
Sandstone-----	133	240	
Shale, gray-----	3	243	

Well 11/7W-17H1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Softpan, yellow-----	11	25	
Softpan, dark-----	6	31	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	14	45	
Slate, black-----	7	52	
Coal-----	1	53	
Fire clay-----	4	57	
Shale, sandy, light-blue-----	5	62	
Sandstone, pasty, blue-----	11	73	
Coal-----	1	74	
Fire clay, blue-----	3	77	
Shale, sandy, gray-----	11	88	
Shale, sandy, light-blue-----	6	94	
Shale, sandy, gray-----	6	100	
Coal, trace-----	--	100	
Fire clay-----	2	102	W.B.
Shale, sandy, gray-----	10	112	
Shale, hard, white-----	4	116	
Shale, sandy, light-----	6	122	
Lower? series:			
Shale, gray-----	9	131	
Fire clay-----	3	134	
Shale (?), soft, gray-----	5	139	
Shale (?), soft, light-gray-----	8	147	
Shale, sandy, blue-----	8	155	
Shale, light-gray-----	7	162	
Sandstone, pasty, gray-----	9	171	
Shale, dark-blue-----	7	178	
Shale, sandy, blue-----	10	188	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-17H1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower? series:			
Coal, trace-----	--	188	
Fire clay-----	3	191	
Shale, gray-----	5	196	
Shale, sandy, gray-----	5	201	
Sandstone, pasty, gray-----	9	210	
Shale, gray-----	10	220	
Shale, blue-----	20	240	
Sandstone, pasty, blue-----	10	250	
Shale, sandy, blue-----	10	260	

Well 11/7W-17P1

Type of record: Driller's log.	Altitude: About 625 feet.		
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	15	15	
Sandstone-----	4	19	Cemented sand (?)
Silt-----	6	25	
Gravel-----	15	40	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	10	50	
Shale, black-----	15	65	
Shale, sandy-----	19	84	
Coal-----	1.5	85.5	
Shale, gray-----	14.5	100	
Sandstone-----	35	135	W.B.
Shale, gray-----	--	135	

Well 11/7W-17P2

Type of record: Driller's log.	Altitude: About 620 feet.		
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Hardpan-----	15	29	
Pennsylvanian system:			
Middle series:			
Shale, light-----	6	35	
Slate-----	7	42	
Shale, blue-----	26	68	
Sandstone-----	43	111	W.B.

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-17Q1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Mud-----	2	18	
Sand and gravel-----	2	20	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	30	50	
Shale, black-----	21	71	
Shale, sandy, gray-----	7	82	
Sandstone, white-----	34	112	W.B.

Well 11/7W-17Q2

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Sand-----	4	20	
Pennsylvanian system:			
Middle series:			
Shale, soft, gray-----	40	60	
Shale, sandy, gray-----	11	71	
Sandstone, gray-----	12	83	
Shale-----	7	90	
Sandstone, white-----	25	115	W.B.

Well 11/7W-17R1

Type of record: Driller's log. Altitude: About 625 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Muck and sand-----	1	19	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	19	38	
Coal, trace-----	--	38	
Fire clay-----	3	41	
Clay rock, light-----	13	54	
Shale, light-----	10	64	
Shale, sandy, blue-----	6	70	
Sandstone, gray-----	17	87	
Coal-----	1	88	
Fire clay-----	2	90	
Shale, limy, with lime- stone bands-----	8	98	
Shale, light-----	8	106	
Coal-----	2	108	

Table 2.-- Selected well logs, Clay County, Indiana--Continued

Well 11/7W-17R1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Fire clay-----	2	110	
Shale, blue-----	18	128	
Lower? series:			
Shale, white-----	14	142	
Sandstone-----	28	170	
Shale with sandstone bands----	40	210	
Slate, blue-----	3	213	
Coal-----	2	215	
Fire clay, white-----	2	217	
Shale, sandy, white-----	10	227	
Sandstone-----	54	281	W.B.

Well 11/7W-18K1

Type of record: Driller's log.

Altitude: About 578 feet.

Quaternary system:			
Recent and Pleistocene series:			
Drift-----	35	35	
Pennsylvanian system:			
Middle series:			
Sandstone-----	9	44	
Shale, dark-----	32	76	
Coal-----	1	77	
Shale, sandy, gray-----	6	83	
Sandstone-----	24	107	
Shale, gray-----	14	121	
Sandstone, brown-----	30	151	
Lower series:			
Coal-----	3	154	
Shale, gray-----	21	175	
Shale, sandy-----	13	188	
Limestone, dark-----	7	195	
Shale, dark-----	13	208	
Sandstone, dark-----	30	238	
Shale, sandy-----	78	316	T.D. 772 ft.

Well 11/7W-18M1

Type of record: Driller's log.

Altitude: About 620 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	15	15	
Drift, shaly, dark-----	9	24	Trace of coal
Pennsylvanian system:			
Middle series:			
Shale, gray-----	14	38	
Shale, dark-----	34	72	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-18M1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	2	74	
Sandstone, broken-----	17	91	W.B.
Shale, dark-----	7	98	
Slate-----	3	101	
Shale, gray-----	19	120	Trace of coal
Sandstone, broken-----	18	138	
Sandstone-----	37	175	
Lower series:			
Shale, gray-----	45	220	
Limestone, gray-----	1	221	
Shale, dark-----	15	236	
Limestone, gray-----	3	239	
Shale, dark-----	24	263	
Sandstone, broken-----	11	274	
Shale, gray-----	30	304	
Sandstone, broken-----	14	318	
Shale, dark-----	10	328	
Shale, sandy, gray-----	21	349	
Sandstone-----	39	388	W.B.; T.D. 1,674 ft.

Well 11/7W-18N1

Type of record: Driller's log.

Altitude: About 620 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	25	25	
Pennsylvanian system:			
Middle series:			
Slate, soft, black-----	5	30	
Coal, trace-----	--	30	
Fire clay, white-----	10	40	
Shale, sandy, white-----	4	44	
Shale (?), gray-----	16	60	
Coal, trace-----	--	60	
Fire clay, soft, blue-----	2	62	
Shale, gray-----	4	66	
Shale, sandy, blue-----	13	79	
Shale, gray-----	4	83	
Shale, sandy, gray-----	4	87	
Sandstone, pasty, gray-----	13	100	
Shale, black-----	13	113	
Coal, trace-----	--	113	
Fire clay-----	3	116	
Shale, sandy, gray-----	4	120	
Shale, gray-----	5	125	
Coal-----	2	127	W.B.
Fire clay, hard-----	3	130	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-18N1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy, gray-----	12	142	W.B.
Sandstone, gray-----	8	150	
Coal, trace-----	--	150	
Fire clay, hard-----	3	153	
Shale, sandy, light-blue-----	12	165	

Well 11/7W-18Q1

Type of record: Driller's log. Altitude: About 605 feet.

Quaternary system:				
Recent and Pleistocene series:				
Surface-----	28	28	W.B.	
Hardpan-----	10	38		
Pennsylvanian system:				
Middle series:				
Sandstone-----	65	103		
Coal-----	2	105		
Fire clay-----	3	108		
Sandstone-----	30	138		

Well 11/7W-19D1

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

Quaternary system:				
Recent and Pleistocene series:				
Clay-----	30	30	W.B.	
Hardpan-----	8	38		
Pennsylvanian system:				
Middle series:				
Sandstone-----	60	98		
Coal-----	3	101		
Fire clay-----	1	102		
Sandstone-----	24	126		

Well 11/7W-19D2

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

Quaternary system:				
Recent and Pleistocene series:				
Surface-----	18	18	W.B.	
Hardpan-----	6	24		
Pennsylvanian system:				
Middle series:				
Shale, blue-----	28	52		

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-19D2--Continued

Material	Thick-ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	10	62	
Sandstone-----	58	120	
Coal-----	4	124	
Shale-----	6	130	
Sandstone-----	30	160	W.B.

Well 11/7W-19R1

Type of record: Driller's log.		Altitude: About 590 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	22	22	
Softpan, gray-----	30	52	
Wash, gray-----	10	62	
Softpan, yellow-----	12	74	
Pennsylvanian system:			
Middle series:			
Slate, black-----	1	75	
Coal, trace-----	--	75	
Fire clay-----	5	80	
Shale, light-gray-----	7	87	
Sandstone, pasty, gray-----	7	94	W.B.
Shale, gray-----	10	104	

Well 11/7W-20E1

Type of record: Driller's log.		Altitude: About 610 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	
Softpan, gray-----	15	32	
Softpan, yellow-----	8	40	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	7	47	
Coal-----	1	48	
Fire clay, blue-----	3	51	
Slate, blue-----	6	57	
Shale, sandy, blue-----	20	77	
Slate, blue-----	5	82	
Slate, black-----	6	88	
Coal, trace-----	--	88	
Fire clay, hard-----	2	90	
Shale, sandy, light-----	13	103	
Coal-----	1	104	
Fire clay, hard-----	2	106	
Shale, sandy, gray-----	4	110	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-20E1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	8	118	W.B.
Sandstone, pasty, gray-----	18	136	
Shale, sandy, light-----	8	144	
Shale, white-----	4	148	
Shale, sandy, light-blue-----	6	154	
Shale, sandy, gray-----	12	166	

Well 11/7W-20G1

Type of record: Driller's log.

Altitude: About 630 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	13	13	
Sand-----	18	31	
Muck, gray-----	7	38	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	5	43	
Coal-----	1	44	
Shale, gray-----	14	58	
Slate, black-----	2	60	
Shale, gray-----	7	67	
Sandstone, gray-----	5	72	
Sandstone, light-gray-----	6	78	
Shale, boots, gray-----	6	84	
Shale, sandy, gray-----	14	98	
Shale, gray-----	21	119	
Shale, sandy, gray-----	12	131	
Sandstone, white-----	9	140	W.B.
Sandstone, gray-----	2	142	W.B.

Well 11/7W-20H1

Type of record: Driller's log.

Altitude: About 630 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	20	20	
Sand and gravel-----	6	26	
Pennsylvanian system:			
Middle series:			
Shale, very soft, gray-----	8	34	
Shale, sandy-----	7	41	
Shale, gray-----	4	45	
Slate, black-----	6	51	
Coal-----	1	52	
Fire clay-----	3	55	
Shale, gray-----	5	60	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-20H1--Continued

Material	Thick-ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	6	66	
Coal-----	2	68	
Sandstone-----	22	90	W.B.

Well 11/7W-20H3

Type of record: Driller's log.

Altitude: About 635 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	24	24	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	8	32	
Slate, black, and coal-----	4	36	
Fire clay-----	1	37	
Shale, gray-----	16	53	
Slate, black-----	7	60	
Fire clay-----	3	63	
Sandstone-----	4	67	
Shale, gray-----	5	72	
Coal, trace-----	--	72	
Sandstone-----	9	81	
Shale, gray-----	18	99	
Shale, sandy-----	8	107	
Sandstone-----	37	144	W.B.
Shale, gray-----	10	154	

Well 11/7W-20H5

Type of record: Driller's log.

Altitude: About 630 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	17	17	
Sand-----	15	32	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	11	43	
Sandstone, gray-----	2	45	
Shale, gray-----	12	57	
Slate, black-----	6	63	
Coal-----	1	64	
Fire clay-----	2	66	
Shale, gray-----	8	74	
Slate, black-----	2	76	
Coal-----	2	78	
Fire clay-----	2	80	
Shale, sandy, gray-----	12	92	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-20H5--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	26	118	
Sandstone-----	17	135	W.B.

Well 11/7W-20H7

Type of record: Driller's log.

Altitude: About 630 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	24	24	
Sand-----	2	26	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	34	60	
Shale, sandy, gray-----	6	66	
Shale, gray-----	6	72	
Shale, sandy, gray-----	17	89	
Shale, gray-----	12	101	
Sandstone, white-----	24	125	W.B.

Well 11/7W-20J2

Type of record: Driller's log.

Altitude: About 630 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Sand and mud-----	14	28	
Muck, gray-----	5	33	
Pennsylvanian system:			
Middle series:			
Coal-----	1	34	
Shale, sandy, gray-----	11	45	
Shale, boots, gray-----	14	59	
Slate, black-----	3	62	
Shale, dark-gray-----	5	67	
Shale, light-gray-----	4	71	
Sandstone, gray-----	3	74	
Shale, boots, gray-----	10	84	
Shale, sandy, gray-----	12	96	
Sandstone, light-gray-----	24	120	
Shale, sandy, gray-----	5	125	
Sandstone, white-----	11	136	W.B.
Shale, gray-----	2	138	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-20K2

Type of record: Driller's log.

Altitude: About 630 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	28	28	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	6	34	
Shale, gray-----	11	45	
Coal-----	1.5	46.5	W.B.
Sandstone-----	5.5	52	
Sandstone-----	4	56	W.B.
Shale, gray-----	12	68	
Slate, black-----	10	78	
Fire clay-----	3	81	
Shale, sandy-----	3	84	
Shale, gray-----	4	88	
Shale, sandy-----	16	104	
Sandstone-----	10	114	
Shale, sandy-----	4	118	
Sandstone-----	4	122	
Shale, gray-----	11	133	
Sandstone-----	9	142	
Lower series:			
Shale, dark-----	16	158	
Slate, black-----	4	162	
Coal-----	1	163	
Fire clay-----	1	164	
Shale, sandy-----	5	169	
Sandstone-----	5	174	
Fire clay-----	4	178	
Shale, sandy-----	17	195	
Sandstone-----	5	200	
Shale, gray-----	8	208	
Sandstone-----	2	210	
Shale, sandy-----	7	217	
Sandstone-----	26	243	
Shale, gray-----	3	246	
Sandstone-----	14	260	
Shale, gray-----	21	281	
Coal, trace-----	--	281	
Fire clay-----	2	283	
Sandstone-----	4	287	
Shale, gray-----	13	300	

Well 11/7W-21A1

Type of record: Driller's log.

Altitude: About 620 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-21A1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Hardpan-----	50	60	
Pennsylvanian system:			
Middle series:			
Sandstone-----	15	75	
Shale-----	10	85	
Coal-----	--	85	

Well 11/7W-21B1

Type of record: Driller's log.

Altitude: About 625 feet.

Quaternary system:			
Recent and Pleistocene series:			
Open well-----	15	15	
Hardpan-----	3	18	
Shale, sandy-----	41	59	Sandy clay?
Hardpan-----	7	66	
Coal-----	2	68	
Sand and gravel-----	--	68	
Pennsylvanian system:			
Middle series:			
Shale-----	6	74	
Sandstone-----	6	80	
Coal-----	1	81	
Fire clay-----	4	85	
Shale, blue-----	12	97	
Lower? series:			
Coal-----	1	98	
Fire clay-----	3	101	
Shale, light-----	44	145	
Sandstone-----	30	175	W.B.
Shale, blue-----	3	178	

Well 11/7W-21D1

Type of record: Driller's log.

Altitude: About 630 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	10	10	
Shale, sandy-----	15	25	Sandy clay?
Sand and gravel-----	5	30	
Pennsylvanian system:			
Middle series:			
Coal-----	2	32	
Fire clay, soft-----	11	43	
Clay, yellow-----	5	48	
Fire clay, soft-----	12	60	
Shale, gray-----	12	72	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-21D1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	3	75	W.B.
Sandstone-----	27	102	
Shale, gray-----	--	102	

Well 11/7W-21N1

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

Quaternary system:				
Recent and Pleistocene series:				
Top soil-----	16	16	W.B.	
Silt-----	1	17		
Pennsylvanian system:				
Middle series:				
Shale, gray-----	16	33		
Shale, black-----	6	39		
Coal-----	3	42		
Fire clay-----	5	47		
Shale, gray-----	9	56		
Shale, sandy-----	17	73		
Sandstone-----	10	83		

Well 11/7W-23B1

Type of record: Driller's log. Altitude: About 590 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	W.B.
Hardpan-----	61	75	
Sand and gravel-----	17	92	

Well 11/7W-23D1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	W.B.
Hardpan-----	84	99	
Gravel-----	9	108	

Well 11/7W-23E1

Type of record: Driller's log. Altitude: About 579 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	10	10	
Sand and gravel-----	35	45	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-23E1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale-----	5	50	
Sandstone-----	32	82	
Lower series:			
Shale, light-----	46	128	
Limestone-----	6	134	
Shale, black-----	8	142	
Shale and limestone-----	8	150	
Sandstone, hard-----	15	165	
Shale, limy-----	20	185	
Limestone, brown-----	3	188	
Sandstone, broken-----	5	193	
Shale-----	23	216	
Sandstone-----	25	241	T.D. 1,510 ft.

Well 11/7W-23H1

Type of record: Driller's log.

Altitude: About 570 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Hardpan, gray-----	10	30	
Softpan, gray-----	40	70	
Sand, dirty, and some gravel---	1	71	
Softpan, gray-----	19	90	
Softpan, dark-yellow-----	7	97	
Pennsylvanian system:			
Lower series:			
Sandstone, light-gray-----	19	116	W.B.

Well 11/7W-23N1

Type of record: Driller's log.

Altitude: About 610 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	12	12	
Hardpan, yellow-----	15	27	
Hardpan, blue-----	20	47	
Sand and gravel, dirty-----	18	65	
Hardpan and wash-----	10	75	
Sand, fine-----	1	76	
Pennsylvanian system:			
Lower series:			
Shale, sandy, light-----	3	79	
Sandstone-----	4	83	
Slate, blue-----	10	93	
Sandstone-----	10	103	W.B.
Slate, dark-blue-----	5	108	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-25G1

Type of record: Driller's log.

Altitude: About 580 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Sand-----	2	16	
Softpan, yellow-----	8	24	
Sand, dirty-----	5	29	
Hardpan, gray-----	22	51	
Pennsylvanian system:			
Lower series:			
Coal, trace-----	--	51	
Fire clay-----	3	54	
Slate, blue-----	4	58	
Slate, sandy, gray-----	25	83	
Slate, blue-----	5	88	
Coal-----	3	91	W.B.
Fire clay, hard-----	1	92	

Well 11/7W-25H1

Type of record: Driller's log.

Altitude: About 580 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan-----	31	46	
Pennsylvanian system:			
Lower series:			
Coal, trace-----	--	46	
Slate, blue-----	10	56	
Slate, sandy, gray-----	7	63	
Shale, light-blue-----	5	68	
Slate, sandy, gray-----	15	83	
Coal-----	3	86	W.B.
Fire clay-----	2	88	
Shale, sandy, light-----	2	90	

Well 11/7W-25J1

Type of record: Driller's log.

Altitude: About 575 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan, gray-----	48	63	
Softpan, yellow-----	5	68	
Pennsylvanian system:			
Lower series:			
Slate, sandy, blue-----	14	82	
Coal-----	2	84	W.B.
Fire clay-----	2	86	
Shale, sandy, light-----	2	88	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-26A1

Type of record: Driller's log.

Altitude: About 565 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	14	14	
Quicksand-----	1	15	
Shale, very soft, gray-----	48	63	
Sand and gravel-----	32	95	
Muck and gravel-----	8	103	
Pennsylvanian system:			
Lower? series:			
Shale, gray-----	7	110	

Well 11/7W-26D1

Type of record: Driller's log.

Altitude: About 613 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	7	7	
Pennsylvanian system:			
Middle series:			
Sandstone-----	6	13	
Shale, and sandstone-----	54	67	
Limestone-----	8	75	W.B.
Shale-----	5	80	
Sandstone-----	40	120	W.B.
Lower? series:			
Coal-----	2	122	
Sandstone-----	6	128	
Shale-----	37	165	
Sandstone-----	110	275	T.D. 1,547 ft.

Well 11/7W-26N1

Type of record: Driller's log.

Altitude: 585 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Sandstone, red-----	2	20	Cemented sand (?)
Hardpan-----	60	80	
Pennsylvanian system:			
Lower series:			
Shale, sandy-----	63	143	
Coal-----	2	145	W.B.

Well 11/7W-26P1

Type of record: Driller's log.

Altitude: About 570 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	28	28	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-26P1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Hardpan-----	15	43	
Gravel-----	2	45	
Hardpan-----	2	47	
Sand-----	4	51	
Gravel-----	3	54	W.B.
Well 11/7W-26R1			
Type of record: Driller's log.		Altitude: About 560 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Open well-----	28	28	
Hardpan-----	20	48	
Pennsylvanian system:			
Lower series:			
Shale, blue-----	12	60	
Coal-----	2	62	
Shale, sandy-----	3	65	
Well 11/7W-27A1			
Type of record: Driller's log.		Altitude: About 650 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan-----	22	32	
Pennsylvanian system:			
Middle series:			
Sandstone, yellow-----	35	67	
Slate, blue-----	3	70	
Coal-----	3.5	73.5	
Shale, sandy, light-----	40.5	114	
Well 11/7W-27A2			
Type of record: Driller's log.		Altitude: About 630 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	19	19	
Sand-----	5	24	
Hardpan-----	7	31	
Sand-----	8	39	
Hardpan-----	25	64	
Pennsylvanian system:			
Middle series:			
Shale, light-----	3	67	
Coal-----	2	69	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-27A2--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, light-----	11	80	
Shale, dark-----	9	89	
Shale, light-----	2	91	
Limestone, blue-----	2	93	
Shale, light-----	11	104	
Lower? series:			
Limestone-----	30	134	
Sandstone-----	46	180	
Shale, blue-----	2	182	
Sandstone-----	43	225	

Well 11/7W-27C1

Type of record: Driller's log. Altitude: About 625 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan-----	7	22	
Pennsylvanian system:			
Middle series:			
Sandstone, yellow-----	42	64	
Shale, soft, gray-----	8	72	
Coal and blackjack-----	5	77	W.B.
Clay-----	3	80	

Well 11/7W-27D1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Softpan, yellow-----	5	20	
Hardpan, gray-----	57	77	
Sand and gravel-----	5	82	W.B.

Well 11/7W-28Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	9	9	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	13	22	
Shale-----	4	26	
Sandstone-----	4	30	
Shale-----	4	34	W.B.

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-28Q1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	11	45	
Sandstone-----	25	70	W.B.
Well 11/7W-29D1			
Type of record: Driller's log.		Altitude: About 610 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Sand, dirty, yellow-----	12	28	
Softpan, gray-----	22	50	
Softpan, dark-----	12	62	
Slate, soft-----	4	66	Fissile, clay
Coal-----	--	66	
Softpan, yellow-----	20	86	
Pennsylvanian system:			
Middle series:			
Shale, sandy, light-----	6	92	
Sandstone, gray-----	8	100	
Shale, sandy, light-----	10	110	
Shale, sandy, blue-----	5	115	
Sandstone, blue-----	14	129	
Lower? series:			
Shale, dark-----	3	132	
Shale?, light-blue-----	6	138	
Shale, sandy, blue-----	12	150	
Sandstone, pasty, blue-----	10	160	
Coal-----	2	162	
Fire clay-----	3	165	
Shale, sandy, hard, gray-----	1	166	
Shale, white-----	5	171	
Shale, gray-----	6	177	
Shale, sandy, blue-----	6	183	
Shale, light-gray-----	4	187	
Sandstone, pasty, gray-----	10	197	
Coal-----	1	198	
Clay-----	3	201	
Well 11/7W-29H1			
Type of record: Driller's log.		Altitude: About 620 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	12	12	
Hardpan, sandy-----	22	34	
Pennsylvanian system:			
Middle series:			
Coal-----	1	35	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-29H1--Continued

Material	Thick-ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Fire clay-----	3	38	
Shale, gray-----	10	48	
Shale, sandy, gray-----	4	52	
Sandstone, gray-----	9	61	
Shale, soft, slick-----	2	63	
Sandstone, gray-----	32	95	
Sandstone, white-----	17	112	W.B.
Shale, gray-----	1	113	

Well 11/7W-30K1 ..

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

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	12	12	
Quicksand-----	60	72	
Sand, black-----	8	80	
Gravel-----	10	90	
Pennsylvanian system:			
Lower series:			
Sandstone, white-----	45	135	
Shale, blue-----	45	180	
Sandstone-----	15	195	
Shale, blue-----	20	215	
Sandstone-----	25	240	
Shale, blue-----	90	330	
Sandstone-----	5	335	
Shale-----	5	340	
Sandstone, broken-----	80	420	T.D. 2,855 ft.

Well 11/7W-32A1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	24	24	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	5	29	
Sandstone, yellow-----	32	61	
Sandstone-----	34	95	W.B.
Coal-----	.5	95.5	
Fire clay-----	.5	96	
Sandstone-----	8	104	W.B.
Shale, gray-----	1	105	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-32H1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	22	22	
Sand-----	2	24	
Pennsylvanian system:			
Middle series:			
Sandstone-----	3	27	
Shale, blue-----	14	41	
Sandstone-----	5	46	W.B.

Well 11/7W-33D1

Type of record: Sample study (by K. Kuhn). Altitude: About 583 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand and surface-----	10	10	
Pennsylvanian system:			
Middle series:			
Sandstone, calcareous, light- gray-----	10	20	
Sandstone, calcareous, shaly, light-gray-----	10	30	
Sandstone, white; trace of pyrite-----	10	40	
Sandstone, loose, white-----	10	50	W.B.
Lower? series:			
Slate, black; trace of coal, fire clay, and pyrite-----	10	60	
Shale, light-gray, and black slate-----	20	80	
Shale, soft, gray, brown, and green-----	10	90	
Shale, soft, gray, brown and green; trace of coal-----	10	100	
Shale, soft, grading to carbon- aceous, sandy shale-----	10	110	
Sample missing-----	10	120	
Shale, sandy, hard, light-gray to dark-gray-----	20	140	
Sandstone, fine, chunky, gray---	10	150	
Sandstone and shale, gray to black, trace of chocolate slate-----	10	160	
Sandstone, shaly, calcareous, black-----	10	170	
Sandstone, fine, gray; trace of shale-----	10	180	
Shale, hard, gray to dark-gray--	10	190	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-33D1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower? series:			
Shale, sandy, hard, light-gray-	10	200	
Shale and sandstone, carbon-			
aceous-----	10	210	
Shale, gray, and hard coal-----	10	220	
Mississippian system:			
Chester? series:			
Shale; pyrite; trace of brown			
hard limestone-----	10	230	
Limestone, hard, dark-gray;			
fossiliferous; much pyrite---	10	240	
Shale, gray-----	10	250	
Sandstone, well-cemented-----	10	260	
Shale, hard, dark-gray-----	10	270	
Shale, hard, dark-gray; trace			
of chocolate slate-----	10	280	
Shale, hard, dark-gray; much			
pyrite-----	10	290	
Sandstone, large-grained-----	10	300	
Sandstone, shaly, limy-----	20	320	
Sandstone, fine-grained, loose;			
pyrite-----	10	330	
Sandstone, fine-grained, loose-	10	340	
Sandstone, coarse, shaly, limy;			
pyrite-----	10	350	T.D. 1,630 ft.

Well 11/7W-33M1

Type of record: Driller's log.

Altitude: About 592 feet.

Record missing-----	70	70	
Pennsylvanian system:			
Middle series:			
Sandstone, coarse-grained, sub-			
angular, loosely-cemented,			
gray-----	50	120	W.B.
Lower series:			
Shale, gray-----	60	180	
Sandstone, fine-grained, hard,			
tight, shaly, gray-----	40	220	
Shale, gray and buff-----	60	280	
Slate, black-----	30	310	
Shale, gray-----	13	323	
Limestone, crystalline, brown-			
ish-gray-----	4	327	
Shale, gray-----	8	335	
Sandstone, coarse-grained,			
subangular, loosely-cemented,			
micaceous, gray-----	25	360	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-33M1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Sandstone, fine-grained, moder- ately-cemented, shaly, gray---	20	380	
Shale, sandy, gray-----	20	400	
Sandstone, fine to medium-grain- ed, rounded grains, loosely- cemented, gray-----	95	495	W.B.; T.D. 1,670 ft.

Well 11/7W-34K1

Type of record: Driller's log.

Altitude: About 613 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	10	10	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	55	65	
Shale, sandy, gray-----	5	70	
Lower series:			
Shale, gray-----	18	88	
Coal-----	3	91	
Shale, gray-----	33	124	
Shale, sandy, gray-----	10	134	
Sandstone, broken-----	12	146	
Shale-----	7	153	
Sandstone, broken-----	15	168	
Shale, sandy-----	56	224	
Shale, dark-----	3	227	
Sandstone, broken-----	18	245	
Sandstone-----	10	255	W.B.
Sandstone-----	55	310	T.D. 1,630 ft.

Well 11/7W-34Q1

Type of record: Driller's log.

Altitude: About 610 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan-----	35	50	
Clay, yellow-----	5	55	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	20	75	
Shale, light-----	14	89	
Sandstone-----	4	93	
Lower? series:			
Shale, blue-----	12	105	
Sandstone, blue-----	20	125	
Sandstone-----	110	235	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-35B1

Type of record: Driller's log. Altitude: About 560 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	12	12	
Hardpan-----	20	32	
Sand and gravel-----	--	32	W.B.

Well 11/7W-35G1

Type of record: Driller's log. Altitude: About 550 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Open well-----	25	25	
Hardpan-----	10	35	
Sand-----	3	38	
Hardpan-----	6	44	
Sand-----	18	62	
Gravel-----	6	68	W.B.
Hardpan-----	29	97	

Well 11/7W-35M1

Type of record: Driller's log. Altitude: About 590 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Open well-----	27	27	
Hardpan-----	43	70	
Pennsylvanian system:			
Lower series:			
Shale, light-----	5	75	
Shale, blue-----	10	85	
Shale, light-----	5	90	
Shale, blue-----	3	93	
Shale, light-----	6	99	
Limestone-----	4	103	
Shale, blue-----	2	105	
Sandstone-----	16	121	W.B.
Shale, blue-----	2	123	

Well 11/7W-35M2

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

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Open well-----	27	27	
Hardpan-----	27	54	
Pennsylvanian system:			
Middle? series:			
Shale, light-----	11	65	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 11/7W-35M2--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle? series:			
Sandstone-----	10	75	
Lower series:			
Shale, light-----	6	81	
Shale, blue-----	23	104	
Coal-----	2	106	
Shale, light-----	2	108	
Sandstone-----	7	115	W.B.
Slate, black-----	3	118	
Shale, light-----	1	119	

Well 11/7W-36B1

Type of record: Driller's log.

Altitude: About 555 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Hardpan-----	4	24	
Pennsylvanian system:			
Lower series:			
Slate, blue-----	6	30	
Slate, sandy, hard, blue-----	4	34	
Slate, dark-blue-----	4	38	
Slate, blue-----	25	63	
Coal-----	1	64	W.B.
Clay, light-----	3	67	

Well 12/5W-19C1

Type of record: Driller's log.

Altitude: About 634 feet.

Quaternary system:			
Recent and Pleistocene series:			
Soil-----	5	5	
Clay and hardpan-----	35	40	
Pennsylvanian? system:			
Lower series:			
Sandstone-----	5	45	W.B.
Mississippian system:			
Chester? series:			
Limestone, broken-----	30	75	
Sandstone-----	10	85	W.B.
Limestone, sandy-----	31	116	
Meramec? series:			
Limestone, light-----	9	125	
Slate, white-----	10	135	
Limestone, brown-----	20	155	
Slate, blue-----	30	185	
Limestone, brown-----	10	195	
Limestone, sharp, gray-----	10	205	T.D. 1,488 ft

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 12/5W-20H1

Type of record: Driller's log. Altitude: About 580 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Pennsylvanian system:			
Lower series:			
Sandstone, pasty-----	18	32	
Shale, blue-----	5	37	
Mississippian system:			
Meramec? series:			
Limestone-----	4	41	W.B.

Well 12/5W-20N1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	13	13	
Pennsylvanian system:			
Lower series:			
Sandstone, soft, yellow-----	7	20	
Slate, soft, blue-----	5	25	
Coal and smut-----	1	26	
Shale, sandy, light-----	9	35	
Shale, sandy, blue-----	12	47	
Sandstone, dark-----	3	50	
Sandstone, white-----	10	60	
Shale, sandy, gray-----	40	100	
Sandstone-----	6	106	
Shale, gray-----	1	107	

Well 12/5W-21L1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	22	22	
Softpan, gray-----	23	45	
Wash, gray-----	15	60	
Pennsylvanian system:			
Lower series:			
Shale, sandy, blue-----	8	68	
Shale, blue-----	3	71	
Shale, light-----	10	81	
Mississippian system:			
Meramec? series:			
Limestone-----	2	83	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 12/5W-28L1

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

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Sand-----	30	50	
Softpan, yellow-----	32	82	
Gravel, fine-----	5	87	W.B.
Sand, fine-----	2	89	W.B.
Hardpan, gray-----	21	110	

Well 12/5W-31F1

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

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Pennsylvanian system:			
Lower series:			
Rock, yellow-----	5	19	
Slate, gray-----	3	22	
Sandstone-----	27	49	W.B.
Slate, blue-----	8	57	
Shale, black-----	23	80	

Well 12/5W-32J1

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

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	4	4	
Sand-----	11	15	
Pan, sandy-----	28	43	
Softpan-----	9	52	
Pan-----	32	84	
Sand, hard-----	2	86	
Sand, soft-----	3	89	W.B.
Pan-----	15	104	
Pennsylvanian system:			
Lower series:			
Sandstone-----	31	135	W.B.

Well 12/5W-33R1

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

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface clay-----	24	24	
Muck, soft; sand and gravel-----	2	26	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 12/5W-33R1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Sandstone, gray-----	22	48	
Sandstone, white-----	2	50	
Shale, sandy, hard, dark-blue--	10	60	
Shale, sandy, hard, gray-----	15	75	

Well 12/5W-34B2

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Sand, dirty-----	40	60	
Wash, sandy-----	35	95	
Sand and gravel-----	20	115	W.B.

Well 12/5W-34C1

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

Quaternary system:			
Recent and Pleistocene series:			
Hardpan-----	12	12	
Pennsylvanian system:			
Lower series:			
Soapstone-----	68	80	
Shale-----	1	81	W.B.
Soapstone-----	4	85	

Well 12/5W-34P1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Pennsylvanian system:			
Lower series:			
Sandstone-----	18	38	
Shale, sandy, light-gray-----	16	54	
Sandstone-----	23	77	
Shale, dark-gray-----	25	102	
Shale, sandy, light-gray-----	23	125	
Shale, light-gray-----	30	155	
Shale, dark-gray-----	22	177	
Sandstone-----	23	200	W.B.

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 12/6W- 1Q1

Type of record: Driller's log.		Altitude: 610 feet.	
Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Sand, soft, yellow-----	5	20	
Gravel, yellow-----	1	21	
Hardpan, gray-----	9	30	
Sand and gravel, gray-----	1	31	
Pennsylvanian system:			
Lower series:			
Shale, blue-----	19	50	

Well 12/6W- 2N1

Type of record: Driller's log.		Altitude: About 645 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan-----	12	27	
Softpan-----	10	37	
Pennsylvanian system:			
Lower series:			
Sandstone, brown-----	4	41	
Slate, sandy, gray-----	14	55	
Slate, blue-----	4	59	
Sandstone, gray-----	3	62	
Shale, light-blue-----	8	70	
Slate, black-----	45	115	
Shale, sandy, blue-----	3	118	
Shale, sandy, white-----	9	127	
Sandstone, white-----	8	135	
Sandstone, gray-----	10	145	
Shale, blue-----	10	155	
Sandstone, gray-----	6	161	
Shale, blue-----	5	166	
Mississippian system:			
Meramec? series:			
Limestone-----	--	166	

Well 12/6W- 3N1

Type of record: Driller's log.		Altitude: About 645 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Pan-----	4	20	
Pennsylvanian system:			
Lower series:			
Shale, soft, light-----	12	32	
Shale, gray-----	8	40	

Table 2.--Selected well logs, Clay County, Indiana--Continued

Well 12/6W- 3N1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Shale, dark-gray-----	2.5	42.5	
Coal-----	.5	43	
Sandstone-----	5	48	W.B.
Shale, sandy-----	14	62	

Well 12/6W- 5C1

Type of record: Driller's log.

Altitude: About 670 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan, gray-----	10	25	
Softpan, gray-----	30	55	
Sand, dirty-----	3	58	
Pennsylvanian system:			
Lower series:			
Slate, sandy, gray-----	40	98	
Coal-----	1	99	W.B.
Shale, sandy, blue-----	8	107	
Shale, sandy, gray-----	17	124	
Shale?, black-----	1	125	"Smut?"
Shale, sandy, black-----	5	130	
Sandstone, gray-----	5	135	
Shale, blue-----	3	138	

Well 12/6W- 5D1

Type of record: Driller's log.

Altitude: About 670 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Softpan, gray-----	7	22	
Softpan, yellow-----	10	32	
Pennsylvanian system:			
Lower series:			
Sandstone, yellow-----	4	36	
Slate, blue-----	19	55	
Coal-----	3	58	
Fire clay-----	3	61	
Slate, sandy, gray-----	27	88	
Slate, dark-----	6	94	
Coal-----	1	95	
Fire clay-----	3	98	
Clay rock, light-----	9	107	
Shale, sandy, blue-----	8	115	
Sandstone, pasty, gray-----	10	125	
Sandstone, white-----	22	147	W.B.
Shale-----	2	149	