

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

Well 12/6W- 5Q1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	
Pan-----	15	32	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	3	35	
Coal-----	.5	35.5	
Clay-----	4.5	40	
Shale, gray-----	18	58	

Well 12/6W- 5R1

Type of record: Driller's log. Altitude: About 655 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Softpan-----	9	26	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	6	32	
Coal-----	.5	32.5	
Clay-----	2.5	35	
Shale, gray-----	9	44	
Shale, dark-gray-----	10	54	
Coal-----	1	55	
Clay-----	3	58	
Shale, gray-----	12	70	
Shale, sandy, gray-----	13	83	
Sandstone-----	27.5	110.5	
Shale, dark-gray-----	8.5	119	
Sandstone-----	6	125	
Shale, gray-----	2	127	
Sandstone-----	20	147	W.B.
Shale, gray-----	3	150	

Well 12/6W- 6A1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Softpan-----	2	18	
Sand and gravel, trace-----	--	18	"Bad water"
Hardpan, gray-----	9	27	
Sand and gravel, trace-----	--	27	"Bad water"

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

Well 12/6W- 6A1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Fire clay-----	2	29	
Slate, blue-----	15	44	
Coal-----	1	45	
Fire clay, dark-----	2	47	
Slate, blue-----	5	52	
Fire clay-----	3	55	
Shale, dark-----	16	71	
Slate, gray-----	10	81	
Coal-----	1	82	
Fire clay, sandy-----	3	85	
Sandstone, gray-----	31	116	W.B.
Shale, blue-----	3	119	
Shale, sandy, blue-----	3	122	
Sandstone, white-----	10	132	W.B.
Shale, blue-----	1	133	

Well 12/6W- 7D1

Type of record: Driller's log.

Altitude: About 660 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan-----	4	19	
Softpan-----	6	25	
Hardpan-----	15	40	
Softpan-----	5	45	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	22	67	
Coal-----	3	70	
Clay-----	3	73	
Shale, sandy, gray-----	14	87	
Coal-----	3	90	
Clay-----	2	92	
Shale, sandy, gray-----	78	170	
Sandstone-----	95	265	W.B.

Well 12/6W- 7D2

Type of record: Driller's log.

Altitude: About 660 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Softpan, yellow-----	5	20	
Hardpan, gray-----	10	30	
Softpan, yellow-----	10	40	
Softpan, dark-----	7	47	

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

Well 12/6W- 7D2--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Slate, blue-----	8	55	
Coal, trace-----	--	55	
Fire clay-----	3	58	
Slate, sandy, gray-----	17	75	
Coal, trace-----	--	75	
Fire clay-----	3	78	
Slate, blue-----	10	88	
Slate, sandy, dark-----	6	94	
Shale, sandy, light-----	6	100	
Shale, sandy, dark-----	6	106	
Shale, dark-----	10	116	
Shale, blue-----	3	119	
Coal, trace-----	--	119	
Fire clay, hard-----	3	122	
Slate, sandy, gray-----	5	127	
Shale, gray-----	18	145	
Shale, sandy, light-gray-----	7	152	

## Well 12/6W- 7F1

Type of record: Driller's log.

Altitude: About 655 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Pennsylvanian system:			
Lower series:			
Sandstone, yellow-----	14	30	
Mine opening-----	2	32	
Slate, blue-----	12	44	
Mine opening-----	4	48	
Fire clay-----	2	50	
Slate, gray-----	30	80	
Shale, sandy, blue-----	10	90	
Shale, sandy, light-blue-----	52	142	
Sandstone, blue-----	10	152	W.B.
Sandstone, white-----	18	170	W.B.

## Well 12/6W- 8A1

Type of record: Driller's log.

Altitude: About 665 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan-----	22	32	
Pennsylvanian system:			
Lower series:			
Coal, trace-----	--	32	

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

Well 12/6W-8A1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Clay-----	6	38	
Shale, sandy, gray-----	3	41	
Shale, gray-----	9	50	
Sandstone-----	4	54	
Shale, gray-----	2	56	
Sandstone-----	37	93	
Shale, gray-----	1	94	
Sandstone-----	26	120	
Shale, gray-----	5	125	

Well 12/6W- 8N1

Type of record: Driller's log.

Altitude: About 650 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan-----	7	25	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	9	34	
Coal-----	3.5	37.5	
Clay-----	6.5	44	
Shale, gray-----	7	51	
Shale, sandy, light-gray-	3	54	
Coal-----	1	55	
Clay-----	3	58	
Shale, sandy, gray-----	5	63	
Shale, dark-gray-----	1	64	
Coal-----	1	65	
Clay-----	.5	65.5	
Shale, gray-----	9	74.5	
Shale, sandy, gray-----	15.5	90	
Sandstone-----	64	154	W.B.

Well 12/6W- 8P1

Type of record: Driller's log.

Altitude: About 640 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	8	8	
Pan-----	13	21	
Clay-----	5	26	

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

## Well 12/6W- 8P1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Shale, gray-----	12	38	
Coal-----	.5	38.5	
Clay-----	1.5	40	
Shale, sandy, gray-----	10	50	
Sandstone-----	10	60	
Shale, sandy, gray-----	62	122	
Sandstone-----	2	124	
Shale, gray-----	12	136	
Shale, sandy, dark-gray-----	36	172	
Sandstone-----	12	184	
Shale, gray-----	6	190	
Sandstone-----	1	191	

## Well 12/6W- 8R1

Type of record: Driller's log.

Altitude: About 640 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Pan-----	62	77	
Pennsylvanian system:			
Lower series:			
Sandstone-----	33	110	W.B.
Shale, gray-----	1	111	

## Well 12/6W- 9D1

Type of record: Driller's log.

Altitude: About 670 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Sand-----	1	17	
Hardpan-----	19	36	
Softpan-----	10	46	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	12	58	
Sandstone-----	28	86	
Shale, sandy, gray-----	7	93	
Sandstone-----	10	103	
Shale, gray-----	9	112	
Sandstone-----	11	123	
Shale, dark-gray-----	3	126	
Sandstone-----	8	134	
Shale, dark-gray-----	26	160	
Sandstone-----	75	235	W.B.

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

Well 12/6W- 9E1		Altitude: About 660 feet.	
Type of record: Driller's log.			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	19	19	
Hardpan, gray-----	10	29	
Softpan, gray-----	28	57	
Pennsylvanian system:			
Lower series:			
Slate, dark-----	3	60	
Slate, dark-gray-----	3	63	
Coal, trace-----	--	63	
Fire clay-----	2	65	
Slate, gray-----	10	75	
Slate, blue-----	4	79	
Coal, trace-----	--	79	
Fire clay-----	2	81	
Shale, sandy, light-----	11	92	
Shale, sandy, gray-----	20	112	
Sandstone, pasty, gray-----	8	120	
Shale, dark-blue-----	5	125	
Shale, gray-----	25	150	
Sandstone, pasty, gray-----	40	190	
Shale, sandy, blue-----	8	198	
Sandstone, blue-----	8	206	W.B.
Sandstone, white-----	53	259	W.B.

Well 12/6W-11L1		Altitude: About 680 feet.	
Type of record: Driller's log.			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	
Pennsylvanian system:			
Lower series:			
Sandstone, brown-----	9	26	
Slate, blue-----	9	35	
Coal-----	5	40	Mine (?)
Fire clay-----	3	43	
Slate, blue-----	6	49	
Coal, trace-----	--	49	
Fire clay-----	3	52	
Shale, sandy, light-----	38	90	
Shale, sandy, blue-----	14	104	
Coal-----	1	105	
Shale, sandy, blue-----	12	117	
Shale, blue-----	8	125	
Shale, gray-----	4	129	
Slate, black-----	4	133	
Slate, blue-----	7	140	

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

Well 12/6W-11R1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Hardpan-----	30	50	
Pennsylvanian system:			
Lower series:			
Slate-----	3	53	
Shale, sandy, blue-----	39	92	
Mississippian system:			
Chester series:			
Limestone, dark-blue-----	5	97	
Sandstone-----	4	101	W.B.
Shale, limy-----	2	103	

Well 12/6W-12B1

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

Open well-----	20	20	
Pennsylvanian system:			
Lower series:			
Shale, dark-gray-----	37	57	
Shale, light-gray-----	14	71	
Mississippian? system:			
Chester? series:			
Sandstone-----	37	108	W.B.
Limestone-----	2	110	

Well 12/6W-12J1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	
Hardpan-----	30.5	47.5	
Sand and gravel-----	2	49.5	
Softpan-----	16.5	66	
Pennsylvanian system:			
Lower series:			
Shale, soft-----	17	83	
Shale, sandy, hard, light-----	5	88	
Sandstone, light-----	4	92	
Sandstone, shelly-----	17	109	
Shale, gray-----	6	115	
Sandstone, hard-----	6	121	
Shale, hard, gray-----	5.5	126.5	
Sandstone, hard, dark-----	10.5	137	
Shale, sandy, gray-----	23	160	
Sandstone, hard, dark-----	3	163	

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

Well 12/6W-12J1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Shale, sandy, gray-----	5	168	
Sandstone, hard, dark-----	2.5	170.5	
Mississippian system:			
Meramec? series:			
Limestone-----	1.5	172	

Well 12/6W-12P1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	40	40	
Pan-----	23	63	
Pennsylvanian system:			
Lower series:			
Sandstone-----	2	65	
Shale, soft, yellow-----	4	69	
Shale, gray-----	5	74	
Coal-----	1	75	
Clay-----	1	76	
Shale, sandy, gray-----	22	98	
Coal-----	1	99	
Clay-----	.5	99.5	
Shale, sandy, gray-----	10.5	110	
Shale, gray-----	21	131	

Well 12/6W-13D1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Pennsylvanian system:			
Lower series:			
Sandstone-----	3	23	
Shale, sandy, gray-----	21	44	
Coal-----	.5	44.5	
Clay-----	4.5	49	
Sandstone-----	12	61	
Shale, sandy, dark-gray-----	21	82	
Slate, black-----	5	87	
Coal-----	.5	87.5	



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

Well 12/6W-13E1

Type of record: Driller's log.

Altitude: About 680 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface and pan-----	13	13	
Sand and gravel-----	1	14	
Hardpan-----	30	44	
Pennsylvanian system:			
Lower series:			
Shale, sandy, dark-gray-----	20	64	
Shale, black-----	15.5	79.5	
Sandstone-----	2	81.5	"Boulder"
Shale, black-----	6.5	88	
Shale, sandy, gray-----	3	91	
Sandstone-----	15	106	
Shale, sandy, gray-----	8	114	
Shale, sandy, dark-gray-----	30	144	
Sandstone-----	2	146	
Shale, sandy, gray-----	6	152	
Sandstone-----	1	153	
Shale, sandy, gray-----	5	158	
Sandstone-----	11	169	
Shale, sandy, gray-----	4	173	
Sandstone-----	34	207	W.B.

Well 12/6W-14D1

Type of record: Driller's log.

Altitude: About 690 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	24	24	
Pennsylvanian system:			
Lower series:			
Shale, dark-gray-----	5	29	
Shale, light-gray-----	13	42	
Shale, dark-gray-----	10	52	
Coal and clay-----	1	53	
Shale, dark-gray-----	11	64	
Coal-----	2	66	
Clay-----	2	68	
Shale, sandy, light-----	12	80	

Well 12/6W-15A1

Type of record: Driller's log.

Altitude: About 680 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Pan-----	10	25	

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

Well 12/6W-15A1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Shale, gray-----	20	45	
Shale, sandy, gray-----	23	68	
Coal-----	2	70	
Clay-----	4	74	
Shale, sandy, gray-----	10	84	

## Well 12/6W-16D1

Type of record: Driller's log.

Altitude: About 640 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	15	15	
Hardpan, yellow-----	58	73	
Sand and gravel-----	9	82	W.B.
Pennsylvanian system:			
Lower series:			
Rock-----	--	82	

## Well 12/6W-16J1

Type of record: Driller's log.

Altitude: About 650 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Hardpan, yellow-----	12	26	
Pennsylvanian system:			
Lower series:			
Slate, blue-----	7	33	
Coal-----	1	34	
Clay-----	6	40	
Slate, blue-----	8	48	
Clay-----	3	51	
Slate, blue-----	3	54	
Slate, sandy, gray-----	13	67	
Coal-----	3	70	
Clay, blue-----	6	76	
Clay, white-----	4	80	
Shale, light-----	5	85	
Shale, blue-----	36	121	
Shale, sandy, light-----	7	128	
Shale, blue-----	10	138	
Shale, sandy, light-----	4	142	
Shale, sandy, blue-----	9	151	
Shale, black-----	14	165	
Shale, blue-----	20	185	
Shale, sandy, light-----	11	196	
Shale, sandy, blue-----	9	205	

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

Well 12/6W-16J1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Shale, brown-----	4	209	
Shale, sandy, light-----	11	220	
Sandstone, white-----	20	240	W.B.

Well 12/6W-16P1

Type of record: Driller's log.

Altitude: About 630 feet.

Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	18	18	
Hardpan-----	44	62	
Wash-----	5	67	
Sand, dirty-----	1	68	
Pennsylvanian system:			
Lower series:			
Shale, sandy, light-blue-----	39	107	
Sandstone, white-----	10	117	W.B.

Well 12/6W-17L1

Type of record: Driller's log.

Altitude: About 645 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan, yellow-----	22	37	
Pennsylvanian system:			
Lower series:			
Sandstone, gray-----	27	64	
Slate, sandy, blue-----	12	76	
Slate, sandy, gray-----	5	81	
Slate, sandy, blue-----	17	98	
Fire clay-----	5	103	
Sandstone, white-----	8	111	W.B.
Shale, sandy, dark-blue-----	4	115	

Well 12/6W-17N1

Type of record: Driller's log.

Altitude: About 650 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Pennsylvanian system:			
Lower series:			
Sandstone-----	16	30	
Coal-----	2	32	
Clay and shale-----	24	56	
Slate, sandy, gray-----	20	76	

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

## Well 12/6W-17N1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Coal-----	1	77	
Clay-----	4	81	
Sandstone, gray-----	28	109	
Sandstone, white-----	15	124	W.B.
Shale, sandy, white-----	3	127	
Shale, sandy, blue-----	1	128	

## Well 12/6W-17N2

Type of record: Driller's log.

Altitude: About 655 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Softpan-----	4	22	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	8	30	
Coal-----	4	34	
Clay-----	3	37	
Shale, gray-----	37	74	
Sandstone-----	48	122	W.B.

## Well 12/6W-17Q1

Type of record: Driller's log.

Altitude: About 630 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Pan-----	25	40	
Pennsylvanian system:			
Lower series:			
Sandstone-----	41	81	
Shale, dark-gray-----	14	95	
Shale, gray-----	12	107	
Sandstone-----	6	113	
Shale, sandy, gray-----	52	165	
Sandstone-----	5	170	
Shale, sandy-----	9	179	
Sandstone-----	11	190	
Shale, sandy-----	15	205	
Sandstone-----	9	214	
Shale, sandy-----	6	220	

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

Well 12/6W-18H1

Type of record: Driller's log.

Altitude: About 645 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface and Pan-----	15	15	
Pennsylvanian system:			
Lower series:			
Shale, dark-gray-----	15	30	
Coal-----	3.5	33.5	
Clay-----	.5	34	
Shale, sandy, gray-----	13	47	
Shale, dark-gray-----	2	49	
Shale, sandy, gray-----	10	59	
Sandstone-----	52	111	W.B.
Shale, sandy, hard, dark-gray---	6	117	

Well 12/6W-18J1

Type of record: Driller's log.

Altitude: About 650 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	30	30	
Clay-----	8	38	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	5	43	
Coal-----	1	44	
Clay-----	1	45	
Shale, gray-----	7	52	
Shale, sandy, gray-----	48	100	
Sandstone-----	38	138	W.B.

Well 12/6W-18P1

Type of record: Driller's log.

Altitude: About 600 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Pan, sandy-----	7	22	
Clay-----	1	23	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	16	39	
Coal-----	1	40	
Clay-----	2	42	
Sandstone-----	13	55	W.B.
Shale, gray-----	5	60	

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

Well 12/6W-18Q1

Type of record: Driller's log.

Altitude: About 640 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	12	12	
Sand-----	2	14	
Hardpan-----	27	41	
Clay, sandy, yellow-----	3	44	
Drift-----	8	52	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	2	54	
Shale, sandy, gray-----	7	61	
Coal-----	.5	61.5	
Fire clay-----	2.5	64	
Shale, sandy, gray-----	8	72	
Slate, black-----	4	76	
Shale, sandy, gray-----	13	89	
Shale, gray-----	2	91	
Shale, sandy, gray-----	14	105	W.B.

Well 12/6W-20B1

Type of record: Driller's log.

Altitude: About 635 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan-----	23	33	
Softpan-----	23	56	
Pennsylvanian system:			
Lower series:			
Sandstone-----	12	68	
Shale, gray-----	1	69	
Coal-----	.5	69.5	
Clay-----	1.5	71	
Sandstone-----	7	78	
Coal-----	.5	78.5	
Clay-----	1.5	80	
Shale, sandy, gray-----	28	108	
Sandstone-----	22	130	W.B.
Shale, sandy, gray-----	32	162	

Well 12/6W-20D1

Type of record: Driller's log.

Altitude: About 650 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Pan, sandy-----	25	45	
Hardpan-----	7	52	
Pennsylvanian system:			
Lower series:			
Shale, dark-gray-----	11	63	

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

Well 12/6W-20D1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Coal-----	4	67	
Clay-----	5	72	
Mine opening-----	4	76	
Sandstone-----	16	92	
Clay-----	6	98	
Shale, gray-----	7	105	
Shale, sandy, gray-----	10	115	
Shale, dark-gray-----	15	130	
Shale, sandy, gray-----	11	241	W.B.

Well 12/6W-20G1

Type of record: Driller's log.

Altitude: About 610 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Softpan-----	58	73	
Pennsylvanian system:			
Lower series:			
Sandstone-----	19	92	
Shale, dark-gray-----	23	115	
Shale, sandy, gray-----	8	123	
Sandstone-----	1.5	124.5	

Well 12/6W-21A1

Type of record: Driller's log.

Altitude: About 655 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	29	29	
Pennsylvanian system:			
Lower series:			
Slate, blue-----	23	52	
Coal, trace-----	--	52	
Fire clay-----	3	55	
Slate, light-blue-----	10	65	
Slate, sandy, gray-----	9	74	
Coal, trace-----	--	74	
Fire clay-----	4	78	
Shale, sandy, light-----	3	81	
Shale, sandy, blue-----	69	150	
Slate, black-----	5	155	
Sandstone, hard, dark-----	4	159	
Shale, sandy, light-----	10	169	
Shale, black-----	9	178	
Shale, sandy, blue-----	27	205	
Sandstone, hard, blue-----	6	211	

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

Well 12/6W-21A1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Shale, light-----	8	219	
Sandstone, hard, blue-----	4	223	
Shale, sandy, blue-----	4	227	
Sandstone, hard, blue-----	4	231	
Shale, blue-----	6	237	
Sandstone-----	41	278	W.B.
Mississippian? system:			
Chester? series:			
Limestone-----	3	281	

Well 12/6W-21R1

Type of record: Driller's log.

Altitude: About 675 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	26	26	
Softpan-----	8	34	
Sand-----	1	35	
Hardpan, gray-----	15	50	
Softpan-----	12	62	
Softpan and yellow wash-----	26	88	
Sand and gravel-----	12	100	W.B.

Well 12/6W-22B1

Type of record: Driller's log.

Altitude: About 660 feet.

Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	18	18	
Pan-----	33	51	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	2	53	
Coal-----	4	57	W.B.
Clay-----	6	63	

Well 12/6W-22M1

Type of record: Driller's log.

Altitude: About 650 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	22	22	
Hardpan, gray-----	18	40	
Wash, yellow-----	5	45	
Pennsylvanian system:			
Lower series:			
Slate-----	6	51	



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

## Well 12/6W-22M1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Coal, trace-----	--	51	
Fire clay-----	3	54	
Slate, gray-----	14	68	
Coal-----	1	69	
Fire clay?-----	2	71	
Shale, gray?-----	10	81	
Coal-----	2	83	
Fire clay, blue-----	2	85	
Shale, blue-----	15	100	
Coal-----	3	103	W.B.
Shale, sandy, gray-----	13	116	
Shale, gray-----	12	128	
Shale, sandy, gray-----	12	140	
Sandstone, gray-----	4	144	
Shale, sandy, gray-----	18	162	
Sandstone, hard, gray-----	9	171	
Shale, blue-----	4	175	
Shale, gray-----	4	179	
Shale, sandy, light-gray-----	4	183	
Shale, sandy, gray-----	7	190	
Shale, sandy, blue-----	28	218	
Shale, soft, gray-----	17	235	
Rock, hard, gray-----	5	240	Limestone (?)
Shale, sandy, gray-----	30	270	

## Well 12/6W-23P1

Type of record: Driller's log.

Altitude: About 630 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	28	28	
Softpan, yellow-----	6	34	
Softpan, dark-----	22	56	
Wash, yellow-----	3	59	
Pennsylvanian system:			
Lower series:			
Slate, blue-----	8	67	
Slate, gray-----	10	77	
Slate, dark-gray-----	13	90	
Slate, sandy, gray-----	6	96	
Clay, soft, light-----	3	99	
Shale, soft, gray-----	3	102	
Shale, sandy, blue-----	13	115	
Shale, dark-blue-----	10	125	

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

Well 12/6W-28H1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	8	8	
Pennsylvanian system:			
Lower series:			
Coal-----	1	9	
Fire clay-----	3	12	
Slate, blue-----	8	20	
Fire clay-----	4	24	
Slate, gray-----	24	48	
Fire clay-----	3	51	
Shale, sandy, blue-----	38	89	
Sandstone, pasty, hard-----	5	94	
Slate, black-----	1	95	
Clay, hard, blue-----	2	97	
Shale, brown-----	2	99	
Shale, sandy, gray-----	9	108	
Shale, sandy, light-----	6	114	
Shale, sandy, gray-----	14	128	
Shale, sandy, light-----	6	134	
Shale, sandy, blue?-----	8	142	
Shale, sandy, light-----	6	148	
Sandstone, white-----	6	154	
Shale, sandy, blue-----	41	195	
Sandstone, hard, blue-----	15	210	W.B.
Sandstone, white-----	8	218	W.B.
Sandstone, blue-----	17	235	W.B.

Well 12/6W-29B1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	21	21	
Sand-----	3	24	
Hardpan-----	45	69	
Wash-----	10	79	
Softpan and wash-----	24	103	
Sand, brown-----	2	105	
Sand, light-----	1	106	
Pennsylvanian system:			
Lower series:			
Sandstone-----	6	112	W.B.

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

Well 12/6W-30D1

Type of record: Driller's log.

Altitude: About 640 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface; clay, soft, yellow-----	17	17	
Softpan, gray-----	14	31	
Hardpan, gray-----	9	40	
Pennsylvanian system:			
Lower? series:			
Shale, soft, brown-----	12	52	
Coal and clay, soft-----	2	54	
Shale, light, and medium-hard sandstone-----	16	70	
Sandstone, medium-hard, light---	20	90	
Sandstone, medium-hard, light---	52	142	W.B.

Well 12/6W-30E1

Type of record: Driller's log.

Altitude: About 600 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Pan-----	15	30	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	8	38	
Shale, dark-gray-----	.5	38.5	
Clay-----	6.5	45	
Sandstone-----	86	131	W.B.

Well 12/6W-30M1

Type of record: Driller's log.

Altitude: About 620 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Pennsylvanian system:			
Lower series:			
Coal-----	1	11	
Clay-----	3	14	
Shale, sandy, gray-----	6	20	
Shale, dark-gray-----	4	24	
Coal-----	2	26	
Clay-----	1	27	
Shale, sandy, gray-----	15	42	
Sandstone-----	73	115	W.B.

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

Well 12/6W-30Q1

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface, sandy-----	18	18	
Clay-----	4	22	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	19	41	
Coal-----	1	42	
Clay-----	3	45	
Shale, gray-----	2	47	
Coal-----	.5	47.5	
Clay-----	.5	48	
Shale, gray-----	15	63	
Sandstone-----	41	104	W.B.

Well 12/6W-31D1

Type of record: Driller's log.

Altitude: About 620 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan-----	23	38	
Wash, yellow-----	5	43	
Pennsylvanian system:			
Lower series:			
Sandstone, soft-----	1	44	
Slate, blue-----	7	51	
Coal-----	2	53	
Fire clay-----	4	57	
Shale, sandy-----	5	62	
Slate, blue-----	10	72	
Coal, trace-----	--	72	W.B.
Shale, sandy, dark-----	7	79	
Shale, light-gray-----	3	82	

Well 12/6W-31E1

Type of record: Driller's log.

Altitude: About 610 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface; clay, soft, yellow----	7	7	
Hardpan, gray-----	7	14	
Hardpan, blue-----	36	50	
Softpan, smooth, gray-----	25.5	75.5	
Pennsylvanian system:			
Lower series:			
Shale, hard, dark-gray-----	3	78.5	
Coal, hard-----	1.5	80	
Shale, sandy, hard, gray-----	20	100	
Sandstone, medium, light-----	54	154	W.B.

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

Well 12/6W-31M1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan-----	30	45	
Hardpan and sand-----	23	68	
Pennsylvanian system:			
Lower series:			
Sandstone-----	60	128	W.B.

Well 12/6W-31N1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan-----	3	18	
Pennsylvanian system:			
Lower series:			
Sandstone, brown-----	7	25	
Sandstone, gray-----	18	43	
Mud-----	29	72	
Slate-----	1	73	
Coal-----	2	75	
Fire clay-----	3	78	
Shale, sandy-----	10	88	
Coal-----	4	92	
Fire clay-----	2	94	
Shale, sandy-----	9	103	
Sandstone-----	7	110	
Shale-----	6	116	
Shale, sandy-----	17	133	
Sandstone-----	17	150	W.B.

Well 12/6W-31Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	12	12	
Pan-----	42	54	
Sand-----	34	88	
Pennsylvanian system:			
Lower series:			
Shale, sandy, gray-----	15	103	W.B.

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

## Well 12/6W-32R1

Type of record: Driller's log.

Altitude: About 645 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Hardpan-----	24	40	
Softpan and faulty material-----	30	70	
Pennsylvanian system:			
Lower series:			
Shale, hard, blue-----	12	82	
Coal-----	3	85	
Clay, hard-----	2	87	
Shale, sandy, light, and rock---	12	99	
Shale, blue-----	39	138	
Sandstone, gray-----	12	150	W.B.
Sandstone, white-----	10	160	
Shale, dark-----	4	164	

## Well 12/6W-33B1

Type of record: Driller's log.

Altitude: About 640 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Pennsylvanian system:			
Lower series:			
Slate-----	30	45	
Slate, sandy, gray-----	5	50	
Shale, sandy, hard, gray-----	20	70	
Sandstone, dark-----	7	77	
Sandstone-----	10	87	
Shale, dark-----	3	90	
Coal, trace-----	--	90	
Fire clay-----	2	92	
Shale, sandy, light-----	4	96	
Shale, sandy, hard, blue-----	8	104	
Shale, blue-----	6	110	
Shale, black-----	4	114	
Shale, hard, gray-----	3	117	
Shale, sandy, light-----	6	123	
Shale, sandy, gray-----	15	138	
Shale, sandy, blue-----	8	146	
Shale?, gray-----	5	151	
Shale, sandy, gray-----	14	165	
Sandstone, gray-----	5	170	
Shale, sandy, gray-----	18	188	
Shale, sandy, blue-----	27	215	
Sandstone, hard, blue-----	20	235	
Sandstone, blue-----	18	253	W. B.
Sandstone, white-----	20	273	W. B.

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

Well 12/6W-33J1

Type of record: Driller's log.

Altitude: About 655 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	12	12	
Pennsylvanian system:			
Lower series:			
Shale, brown-----	4	16	
Shale, sandy, gray-----	11	27	
Sandstone-----	5	32	
Shale, sandy, dark-gray-----	6	38	
Slate, dark-gray-----	4	42	
Coal-----	2.5	44.5	
Clay-----	2	46.5	
Shale, sandy, gray-----	8.5	55	
Coal-----	1.5	56.5	
Clay-----	1.5	58	
Shale, sandy, dark-gray-----	13	71	
Sandstone-----	6	77	
Shale, sandy, dark-gray-----	17	94	
Sandstone-----	89	183	W.B.

Well 12/6W-34B1

Type of record: Driller's log.

Altitude: About 645 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Hardpan, gray-----	6	20	
Pennsylvanian system:			
Lower series:			
Slate, sandy, blue-----	10	30	
Coal, trace-----	--	30	
Fire clay, blue-----	3	33	
Slate, blue-----	7	40	
Slate, gray-----	25	65	
Coal, trace-----	--	65	
Fire clay, blue-----	3	68	
Shale, blue-----	7	75	
Shale, sandy, blue-----	4	79	
Shale, dark-blue-----	6	85	
Shale, sandy, gray-----	25	110	
Sandstone, pasty, gray-----	8	118	
Shale, sandy, gray-----	15	133	
Limestone, hard, gray-----	8	141	
Shale, gray-----	16	157	
Shale, sandy, gray-----	9	166	
Shale, gray-----	8	174	
Shale, sandy, blue-----	4	178	
Sandstone, gray-----	69	247	W.B.

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

Well 12/6W-34P1

Type of record: Driller's log.

Altitude: About 660 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	13	13	
Pennsylvanian system:			
Lower series:			
Slate, blue-----	1	14	
Coal-----	3	17	
Fire clay-----	7	24	
Slate, gray-----	8	32	
Coal, smut-----	2	34	
Fire clay-----	3	37	
Shale, gray-----	25	62	
Slate, gray-----	12	74	
Fire clay-----	1	75	
Shale, clayey-----	5	80	
Slate, gray-----	10	90	
Shale, dark-blue-----	80	170	
Shale, sandy-----	15	185	
Sandstone, white-----	15	200	W.B.

Well 12/6W-34Q1

Type of record: Driller's log.

Altitude: About 660 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Pennsylvanian system:			
Lower series:			
Sandstone-----	3	13	
Shale, sandy, gray-----	4	17	
Shale, gray-----	2	19	
Sandstone-----	4	23	
Shale, sandy, gray-----	31	54	
Sandstone-----	2	56	
Shale, sandy, dark-gray-----	9	65	
Sandstone-----	28.5	93.5	
Shale, sandy, gray-----	.5	94	
Coal-----	1	95	
Shale, sandy, gray-----	45	140	
Sandstone-----	5	145	
Shale, sandy, gray-----	35	180	
Sandstone, hard-----	2	182	
Sandstone-----	20	202	W.B.



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

Well 12/6W-34R1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Hardpan, yellow-----	6	20	
Hardpan, gray-----	15	35	
Softpan, yellow-----	17	52	
Pennsylvanian system:			
Lower series:			
Slate, blue-----	8	60	
Shale, sandy, blue-----	7	67	
Sandstone, pasty, gray-----	18	85	
Shale, sandy, blue-----	5	90	
Sandstone, pasty, blue-----	8	98	
Shale, dark-blue-----	32	130	
Shale, gray-----	4	134	
Shale, sandy, gray-----	5	139	
Sandstone, pasty, gray-----	6	145	
Shale, light-blue-----	6	151	
Shale, dark-blue-----	27	178	
Shale, sandy, light-blue-----	12	190	
Sandstone, blue-----	38	228	W.B.

Well 12/7W- 1D1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface and Pan-----	28	28	
Pennsylvanian system:			
Middle series:			
Shale, sandy, dark-gray-----	5	33	W.B.
Coal, bright-----	.5	33.5	
Clay to gray shale-----	3.5	37	
Shale, sandy, gray-----	1	38	
Sandstone-----	3	41	
Lower series:			
Shale, sandy, dark-gray-----	31.5	72.5	
Coal and jack-----	.5	73	
Shale, sandy, gray-----	1	74	
Sandstone-----	11	85	W.B.
Shale, sandy, dark-gray-----	11	96	

Well 12/7W- 1J1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	

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

Well 12/7W- 1J1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Slate-----	6	21	
Limestone-----	1	22	
Slate, blue-----	2	24	
Limestone-----	2	26	
Slate, blue-----	22	48	
Coal, trace-----	--	48	
Slate, sandy, gray-----	36	84	W.B.

Well 12/7W- 1J3

Type of record: Driller's log.

Altitude: About 675 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Pennsylvanian system:			
Lower series:			
Slate, blue-----	5	21	
Limestone-----	1	22	
Slate, blue-----	25	47	
Coal, trace-----	--	47	
Fire clay-----	3	50	
Slate, sandy, gray-----	33	83	
Slate, blue-----	10	93	
Slate, black-----	11	104	
Coal-----	1	105	
Fire clay-----	8	113	
Shale, sandy, gray-----	26	139	
Shale, dark-----	5	144	
Shale?, soft, gray-----	5	149	
Shale, sandy, gray-----	24	173	
Shale, sandy, blue-----	8	181	
Shale?, dark-----	5	186	
Shale, sandy, blue-----	9	195	
Sandstone, white-----	8	203	
Sandstone, blue-----	51	254	W.B.
Sandstone, white-----	12	266	W.B.

Well 12/7W- 1Q1

Type of record: Driller's log.

Altitude: About 630 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Pennsylvanian system:			
Lower series:			
Shale, blue-----	15	30	
Coal-----	1	31	

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

Well 12/7W- 1Q1--Continued

Material	Thickness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Clay-----	2	33	
Shale, blue-----	22	55	
Coal-----	2	57	
Clay-----	2	59	
Slate, sandy, light-----	24	83	
Fire clay-----	3	86	
Clay rock-----	6	92	
Shale, dark-----	19	111	
Shale, light-----	8	119	
Shale, sandy, hard, light-----	10	129	
Sandstone, gray-----	50	179	
Slate, blue-----	15	194	
Shale, hard, dark-----	31	225	
Shale, sandy, gray-----	37	262	
Sandstone-----	7	269	
Mississippian (?) system:			
Meramec (?) series:			
Limestone-----	12	281	

Well 12/7W- 1R1

Type of record: Driller's log.

Altitude: About 665 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Pan-----	9	29	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	30.5	59.5	
Coal, trace-----	--	59.5	
Clay-----	2.5	62	
Shale, gray-----	6	68	
Coal-----	.5	68.5	
Clay-----	3	71.5	
Shale, gray-----	9.5	81	
Shale, light-gray-----	3	84	
Shale, gray-----	7	91	
Shale, dark-gray-----	14	105	
Shale, sandy, light-gray-----	38	143	

Well 12/7W- 2E1

Type of record: Driller's log.

Altitude: About 630 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	12	12	
Pan-----	6	18	

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

Well 12/7W- 2E1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Shale, gray-----	3	21	
Coal-----	.5	21.5	
Clay-----	3.5	25	
Shale, gray-----	11	36	
Coal-----	3	39	
Clay-----	3	42	
Sandstone-----	38	80	
Shale, sandy, gray-----	16	96	
Shale, gray-----	6	102	
Coal-----	1	103	
Clay-----	1	104	
Shale, sandy, gray-----	12	116	
Coal-----	1	117	
Clay-----	1	118	
Shale, sandy, gray-----	92	210	

## Well 12/7W- 2E3

Type of record: Driller's log.

Altitude: About 635 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and pan-----	5	5	
Sand-----	27	32	
Pea gravel-----	3	35	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	9	44	
Shale, dark-gray-----	24	68	
Coal-----	3	71	
Clay-----	1	72	
Shale, sandy, gray-----	10	82	
Sandstone-----	10	92	W.B.

## Well 12/7W- 2F1

Type of record: Driller's log.

Altitude: About 630 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Muck-----	2	16	
Softpan-----	22	38	
Pennsylvanian system:			
Lower series:			
Shale, light-blue-----	3	41	
Limestone, very-hard-----	5	46	
Shale, sandy, blue-----	2	48	
Shale, soft, white-----	4	52	

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

Well 12/7W- 2F1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Shale, sandy, hard, blue-----	18	70	W.B.
Slate, sandy, gray and shelly sandstone-----	33	103	
Clay, dark-----	2	105	
Shale, sandy, blue-----	25	130	
Shale, sandy, light-----	4	134	

## Well 12/7W- 2G1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Sand-----	4	14	
Pan-----	34	48	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	4	52	
Coal-----	.5	52.5	
Clay-----	1.5	54	
Shale, sandy, gray-----	7	61	
Sandstone-----	4	65	
Shale, sandy, gray-----	40	105	

## Well 12/7W- 2G5

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Pan, sandy-----	42.5	52.5	
Pennsylvanian system:			
Lower series:			
Sandstone-----	37.5	90	
Shale, sandy, dark-gray-----	39	129	
Coal-----	4	133	
Clay-----	1.5	134.5	
Shale, sandy, light-gray-----	5.5	140	
Sandstone-----	4	144	

## Well 12/7W- 3A2

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

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	22	22	
Hardpan-----	4	26	
Sand-----	4	30	

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

Well 12/7W- 3A2--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower? series:			
Shale, smooth-----	46	76	
Clay-----	16	92	
Coal-----	3	95	
Clay-----	15	110	
Slate, sandy-----	94	204	W.B.
Sandstone-----	16	220	W.B.

Well 12/7W- 3A3			
Type of record: Driller's log.		Altitude: About 635 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Pan, sandy-----	20	40	
Pennsylvanian system:			
Middle? series:			
Shale, gray-----	10	50	
Shale, light-gray-----	8	58	
Shale, gray-----	12	70	
Lower series:			
Shale, sandy, light-gray-----	13	83	
Coal-----	.5	83.5	
Shale, sandy, light-gray-----	7.5	91	
Coal-----	1	92	
Clay-----	1	93	
Shale, sandy, light-gray-----	5	98	
Shale, sandy, gray-----	7	105	
Shale, sandy, dark-gray-----	5	110	
Coal-----	4	114	
Clay-----	1	115	
Shale, sandy, gray-----	55	170	
Sandstone-----	47	217	W.B.
Shale, sandy, gray-----	1	218	
Sandstone-----	14	232	W.B.

Well 12/7W- 3F1			
Type of record: Driller's log.		Altitude: About 620 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Fire clay-----	3	23	
Pennsylvanian system:			
Middle? series:			
Shale, sandy, gray-----	3	26	
Sandstone-----	3	29	
Shale, sandy, gray-----	8	37	

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

Well 12/7W- 3F1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower? series:			
Shale, gray-----	7	44	
Shale, sandy, gray-----	28	72	
Sandstone-----	3	75	
Shale, sandy, gray-----	8	83	
Coal-----	3	86	
Fire clay-----	1	87	
Shale, sandy, gray-----	13	100	

Well 12/7W- 3L1

Type of record: Driller's log.

Altitude: About 610 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Sand-----	10	30	
Pennsylvanian system:			
Middle series:			
Sandstone, gray-----	10	40	
Slate, blue-----	5	45	
Shale, sandy, blue-----	10	55	
Shale, sandy, light-----	5	60	
Lower series:			
Shale, sandy, blue-----	16	76	
Coal, trace-----	--	76	
Fire clay, blue-----	1	77	
Shale, gray-----	6	83	
Shale, sandy, light-----	5	88	
Sandstone, white-----	10	98	
Slate, dark-----	2	100	
Coal-----	2	102	
Fire clay-----	3	105	
Shale, light-gray-----	6	111	
Shale, dark-blue-----	11	122	
Coal-----	2	124	
Fire clay-----	1	125	
Shale, dark-blue-----	5	130	
Shale, sandy, gray-----	5	135	
Shale (?), gray-----	5	140	
Shale, sandy, gray-----	10	150	
Shale, sandy, blue-----	40	190	
Sandstone, pasty, blue-----	15	205	
Shale, sandy, blue-----	32	237	
Sandstone, white-----	5	242	W. B.
Sandstone, blue-----	22	264	W. B.

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

Well 12/7W- 3L2		Altitude: About 615 feet.	
Type of record: Driller's log.			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	23	23	
Pennsylvanian system:			
Middle series:			
Fire clay-----	3	26	
Sandstone, pasty-----	4	30	
Shale?, white-----	5	35	
Slate, blue-----	8	43	
Shale, sandy, blue-----	14	57	
Sandstone, shaly-----	5	62	
Lower series:			
Shale, sandy, blue-----	15	77	
Slate, dark-----	2	79	
Coal-----	2	81	
Clay, hard-----	2	83	
Shale, sandy, blue-----	17	100	
Coal, trace-----	--	100	
Fire clay-----	1	101	
Shale, sandy, blue-----	16	117	
Coal-----	1	118	
Fire clay, hard-----	2	120	
Shale, gray-----	5	125	
Slate, dark-----	4	129	
Coal, trace-----	--	129	
Fire clay, hard-----	2	131	
Shale, gray-----	5	136	
Shale, sandy, gray-----	8	144	
Shale, sandy, blue-----	36	180	
Sandstone, blue-----	10	190	
Shale, sandy, blue-----	3	193	

Well 12/7W- 3M1		Altitude: About 630 feet.	
Type of record: Driller's log.			
Quaternary system:			
Recent and Pleistocene series:			
Surface; clay-----	15	15	
Sand, dirty, yellow-----	20	35	
Softpan, sandy-----	5	40	
Sand, yellow-----	10	50	W.B.
Sand and gravel, gray-----	2	52	W.B.
Sand, gray-----	2	54	W.B.
Sand and gravel, gray-----	1	55	W.B.



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

Well 12/7W- 3M4

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system			
Recent and Pleistocene series:			
Surface-----	20	20	W.B.
Sand, dirty-----	17	37	
Sand and gravel-----	10	47	
Pennsylvanian system:			
Lower series:			
Fire clay-----	3	50	

Well 12/7W- 3M5

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

Quaternary system:				
Recent and Pleistocene series:				
Surface-----	19	19		
Sand, dirty, gray-----	4	23		
Hardpan, gray-----	11	34		
Pennsylvanian system:				
Middle series:				
Slate, blue-----	3	37	W.B.	
Sandstone, pasty, white-----	12	49		
Slate, blue-----	11	60		
Shale, sandy, blue-----	20	80		
Shale, sandy, light-----	3	83		
Lower series:				
Slate, dark-----	4	87		
Coal, trace-----	--	87		
Fire clay, dark-blue-----	2	89		
Shale, sandy, light-----	4	93		
Sandstone, pasty, white-----	3	96		
Slate, blue-----	6	102		
Coal-----	2	104		
Fire clay, hard-----	2	106		
Shale, sandy, gray-----	17	123		
Coal-----	1	124		
Fire clay-----	2	126		
Shale, sandy, gray-----	5	131		
Coal-----	1	132		
Fire clay, hard-----	2	134		
Shale, hard, gray-----	2	136		

Well 12/7W- 3M14

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	22	22	
Sand, dirty-----	15	37	
Hardpan, gray-----	3	40	

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

Well 12/7W- 3M14--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Shale, white-----	3	43	
Slate, blue-----	7	50	
Shale, sandy, gray-----	45	95	
Sandstone, pasty, gray-----	6	101	W.B.
Coal-----	1	102	
Fire clay, hard-----	3	105	
Shale, gray-----	5	110	
Shale, sandy, gray-----	14	124	
Coal-----	1	125	
Shale, gray-----	10	135	
Shale, light-gray-----	5	140	
Shale, sandy, gray-----	40	180	
Sandstone, gray-----	18	198	W.B.
Sandstone, pasty, gray-----	12	210	
Shale, sandy, gray-----	30	240	
Sandstone, gray-----	25	265	W.B.

Well 12/7W- 3N1

Type of record: Driller's log.

Altitude: About 620 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Sand, dirty, yellow-----	25	35	
Sand yellow-----	5	40	W.B.
Sand and gravel, gray-----	3	43	W.B.

Well 12/7W- 3N3

Type of record: Driller's log.

Altitude: About 620 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	8	8	
Sand-----	22.5	30.5	
Gravel-----	.5	31	
Pan-----	3	34	
Clay-----	4	38	
Pennsylvanian system:			
Lower series:			
Slate, black-----	10	48	
Coal-----	.5	48.5	
Clay-----	2.5	51	
Shale, sandy, gray-----	43	94	
Coal-----	1.5	95.5	
Clay-----	.5	96	
Shale, sandy, gray-----	24	120	
Sandstone-----	5	125	

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

## Well 12/7W- 3R1

Type of record: Drillers' log.

Altitude: About 690 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Pennsylvanian system:			
Middle series:			
Sandstone-----	13	23	
Shale, dark-----	11	34	
Slate, black-----	6	40	
Coal-----	2	42	
Clay-----	4	46	
Shale, sandy, gray-----	3	49	
Coal-----	7	56	
Clay-----	4	60	
Shale, sandy, light-----	3.5	63.5	
Limestone-----	2	65.5	
Slate, black-----	2	67.5	
Coal-----	1	68.5	
Clay-----	1.5	70	
Shale, light-----	28	98	
Shale, light-gray-----	11	109	
Coal-----	2	111	
Clay-----	4	115	
Shale, gray-----	13	128	
Lower? series:			
Shale-----	5	133	
Shale, gray-----	21	154	
Coal-----	1.5	155.5	

## Well 12/7W- 4J4

Type of record: Driller's log.

Altitude: About 635 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, sandy, red-----	20	20	
Sand-----	20	40	W.B.
Gravel-----	4	44	W.B.
Sand-----	8	52	W.B.

## Well 12/7W- 4J5

Type of record: Driller's log.

Altitude: About 630 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Sand, dirty-----	30	45	
Sand and gravel-----	6	51	W.B.

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

Well 12/7W- 4J6

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Sand, dirty-----	32	42	
Sand, yellow, and some gravel---	5	47	W.B.
Sand, gray, and some gravel-----	1	48	W.B.
Pennsylvanian system:			
Middle series:			
Shale, soft, light-blue-----	1	49	

Well 12/7W- 4K1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Sand, dirty-----	12	27	
Sand and gravel-----	2	29	W.B.
Hardpan, gray-----	8	37	

Well 12/7W- 4L1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan, yellow-----	15	30	
Hardpan, gray-----	14	44	
Pennsylvanian system:			
Middle? series:			
Shale, sandy, gray-----	22	66	
Lower series:			
Slate, black-----	4	70	
Coal-----	1	71	W.B.
Clay, dark-blue-----	3	74	
Shale, gray-----	6	80	
Shale, sandy, gray-----	25	105	
Slate, black-----	5	110	
Coal, trace-----	--	110	W.B.
Shale, sandy, gray-----	18	128	

Well 12/7W- 4M1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan, gray-----	26	41	

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

Well 12/7W- 4M1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Wash, gray-----	30	71	
Hardpan-----	8	79	
Wash, dark-----	10	89	
Wash, yellow-----	6	95	
Wash, dark-----	3	98	
Pennsylvanian system:			
Lower series:			
Fire clay-----	3	101	
Shale, blue-----	3	104	
Slate, black-----	7	111	
Coal-----	2	113	
Fire clay-----	3	116	
Shale, sandy, gray-----	7	123	
Coal, trace-----	--	123	W.B.
Fire clay, hard-----	3	126	
Shale, sandy, blue-----	10	136	

Well 12/7W- 4Q1

Type of record: Driller's log.

Altitude: About 610 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan-----	27	45	
Pennsylvanian system:			
Middle series:			
Shale, light-----	19	64	
Sandstone-----	17	81	
Lower series:			
Shale, dark-----	29	110	
Sandstone-----	13	123	
Shale, gray-----	26	149	
Sandstone-----	36	185	
Shale, dark-----	10	195	
Sandstone-----	15	210	
Shale, dark-----	3	213	
Sandstone-----	19	232	W.B.
Sandstone, white-----	18	250	W.B.

Well 12/7W- 4Q3

Type of record: Driller's log.

Altitude: About 600 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Sand-----	5	20	
Hardpan-----	10	30	

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

Well 12/7W- 4Q3--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	2	32	
Fire clay-----	5	37	
Shale, light-----	3	40	

Well 12/7W- 4Q4

Type of record: Driller's log.

Altitude: About 600 feet.

Quaternary system:			
Recent and Pleistocene series:			
Softpan, yellow-----	12	12	
Hardpan, gray-----	15	27	
Softpan, dark-----	27	54	
Pennsylvanian system:			
Middle series:			
Slate, dark-blue-----	20	74	
Coal-----	2	76	
Fire clay-----	3	79	
Shale, gray-----	6	85	
Lower series:			
Slate, black-----	8	93	
Coal-----	3	96	
Fire clay-----	2	98	
Shale, sandy, gray-----	14	112	
Shale, gray-----	4	116	
Slate, dark-----	5	121	
Coal, trace-----	--	121	
Fire clay-----	2	123	
Shale, sandy, gray-----	47	170	
Shale, sandy, blue-----	15	185	
Shale, sandy, gray-----	20	205	
Sandstone, gray-----	15	220	W.B.
Shale, sandy, gray-----	30	250	
Shale, sandy, blue-----	15	265	
Sandstone, pasty, blue-----	15	280	
Coal-----	1	281	
Shale, dark-blue-----	11	292	

Well 12/7W- 4R2

Type of record: Driller's log.

Altitude: About 615 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Sand, dirty-----	17	32	
Sand, yellow-----	4	36	W.B.
Sand and gravel, gray-----	1	37	W.B.
Hardpan-----	6	43	
Clay-----	7	50	

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

Well 12/7W- 4R3

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan, gray-----	16	26	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	9	37	
Coal, trace-----	--	37	
Fire clay-----	3	40	
Shale, gray-----	8	48	
Slate, blue-----	5	53	
Shale, light-----	9	62	
Slate, blue-----	11	73	
Coal, trace-----	--	73	"Bad water"
Fire clay-----	3	76	
Slate, sandy, hard, blue-----	1	77	

Well 12/7W- 4R5

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan, yellow-----	5	20	
Hardpan, gray-----	10	30	
Softpan, dark-----	30	60	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	3	63	
Coal, trace-----	--	63	
Fire clay-----	6	69	
Coal-----	1	70	W.B.
Fire clay-----	3	73	

Well 12/7W- 4R6

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

Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	12	12	
Sand, brown-----	16	28	
Pennsylvanian system:			
Middle series:			
Shale, light-gray-----	25	53	
Shale, dark-gray-----	17	70	
Sandstone-----	14	84	W.B.
Lower series:			
Shale, sandy, gray-----	26	110	

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

Well 12/7W- 4R6--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Shale, gray-----	16	126	
Coal, trace-----	--	126	
Fire clay, hard-----	2	128	
Shale, light-gray-----	10	138	
Shale, sandy, blue-----	6	144	
Coal-----	3	147	W.B.
Clay, hard-----	2	149	
Shale, light-gray-----	9	158	
Shale, sandy, blue-----	5	163	
Shale, sandy, gray-----	22	185	

## Well 12/7W- 5B1

Type of record: Driller's log.

Altitude: About 600 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	.15	
Hardpan, gray-----	35	50	
Sand-----	2	52	W.B.
Sand and gravel-----	2	54	W.B.

## Well 12/7W- 5Q1

Type of record: Driller's log.

Altitude: About 635 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Sand, yellow-----	33	48	
Sand and gravel-----	6	54	W.B.

## Well 12/7W- 5R1

Type of record: Driller's log.

Altitude: About 620 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	36	36	
Softpan-----	9	45	
Sand and gravel-----	12	57	W.B.

## Well 12/7W- 6D1

Type of record: Driller's log.

Altitude: About 590 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	12	12	
Sand, dirty, yellow-----	18	30	



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

Well 12/7W- 6D1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel, yellow-----	3	33	W.B.
Sand and gravel, gray-----	2	35	W.B.

Well 12/7W- 6E1

Type of record: Driller's log.

Altitude: About 590 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Muck, soft-----	14	28	
Hardpan, gray-----	40	68	
Softpan, dark-----	10	78	
Softpan, brown-----	12	90	
Sand and gravel-----	1.5	91.5	
Wash, dark-----	6.5	98	
Gravel-----	9	107	W.B.

Well 12/7W- 6E2

Type of record: Driller's log.

Altitude: About 590 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	13	13	
Sand, yellow, and muck-----	11	24	
Hardpan, gray-----	31	55	
Hardpan, dark-----	21	76	
Sand and gravel, dirty-----	2	78	
Softpan, dark-----	9	87	
Gravel-----	8	95	W.B.

Well 12/7W- 6F1

Type of record: Driller's log.

Altitude: About 575 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface; clay-----	20	20	
Sand, dirty-----	8	28	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	2	30	
Coal, trace-----	--	30	
Fire clay-----	7	37	
Slate, blue-----	8	45	
Coal-----	6	51	W.B.
Fire clay, soft-----	3	54	
Slate, blue-----	6	60	
Coal-----	1	61	
Shale-----	2	63	

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

Well 12/7W- 6G1

Type of record: Driller's log.

Altitude: About 575 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Hardpan-----	6	26	
Sand, dirty-----	5	31	
Pennsylvanian system:			
Middle series:			
Slate, sandy, blue-----	10	41	Trace of coal is W.B.

Well 12/7W- 6L1

Type of record: Driller's log.

Altitude: About 595 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	21	21	
Hardpan-----	54	75	
Sand-----	16	91	W.B.
Gravel-----	9	100	W.B.

Well 12/7W- 6P1

Type of record: Driller's log.

Altitude: About 595 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Hardpan-----	8	24	
Sand-----	2	26	
Hardpan, gray-----	13	39	
Sand and gravel, dirty-----	1	40	
Hardpan, gray-----	7	47	
Softpan, yellow-----	8	55	
Softpan, gray-----	25	80	
Sand and gravel-----	5	85	W.B.
Gravel, gray-----	4	89	W.B.

Well 12/7W- 6Q1

Type of record: Driller's log.

Altitude: About 590 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan-----	25	43	
Pennsylvanian system:			
Middle series:			
Coal-----	5	48	
Fire clay-----	2	50	
Shale, light-----	12	62	
Sandstone-----	8	70	

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

Well 12/7W- 6Q1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Slate, black-----	15	85	
Slate, light-----	5	90	
Sandstone-----	30	120	
Shale, dark-----	5	125	
Sandstone-----	5	130	
Lower series:			
Shale, dark-----	10	140	
Limestone-----	10	150	
Slate, black-----	3	153	
Fire clay-----	2	155	
Sandstone-----	5	160	
Limestone-----	8	168	
Shale, dark-----	5	173	
Coal-----	2	175	
Fire clay-----	5	180	
Limestone-----	10	190	
Shale, dark-----	30	220	
Limestone-----	25	245	
Sandstone-----	50	295	W.B.

Well 12/7W- 7C2

Type of record: Driller's log.

Altitude: About 605 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	24	24	
Softpan-----	7	31	
Hardpan, gray-----	18	49	
Gravel, fine, and sand-----	1	50	W.B.
Hardpan, gray-----	6	56	
Softpan-----	20	76	
Wash, gray-----	15	91	
Softpan-----	5	96	
Wash, yellow-----	2	98	
Pennsylvanian system:			
Middle series:			
Shale, sandy, blue-----	3	101	
Sandstone, pasty-----	34	135	

Well 12/7W- 7E3

Type of record: Driller's log.

Altitude: About 610 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	25	25	
Sand-----	2	27	
Hardpan, gray-----	53	80	

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

Well 12/7W- 7E3--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, trace-----	--	80	W.B.
Hardpan, dark-----	10	90	
Wash, yellow-----	7	97	
Pennsylvanian system:			
Middle series:			
Clay and blue slate-----	2	99	
Slate, black-----	4	103	
Clay, soft, blue-----	4	107	
Shale, soft, light-----	12	119	
Shale, sandy, light-----	21	140	
Sandstone, pasty-----	15	155	
Shale, sandy, blue-----	6	161	
Shale, dark-----	6	167	

Well 12/7W- 7F1

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

Quaternary system:			
Recent and Pleistocene series:			
Open well-----	25	25	
Pan, sandy-----	40	65	
Drift-----	5	70	
Pan, sandy-----	20	90	
Pan-----	10	100	
Pennsylvanian system:			
Middle series:			
Sandstone, very soft-----	7	107	W.B.
Coal-----	--	107	

Well 12/7W- 7F2

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Sand, dirty-----	10	30	
Hardpan, gray-----	35	65	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	12	77	W.B.
Coal-----	6	83	
Fire clay-----	3	86	
Slate, blue-----	3	89	

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

Well 12/7W- 7F5

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	28	28	
Hardpan-----	30	58	
Pennsylvanian system:			
Middle series:			
Slate, gray-----	3	61	
Slate, sandy, gray-----	6	67	
Clay, hard, blue-----	4	71	
Shale, sandy, blue-----	11	82	
Coal-----	7	89	W.B.
Fire clay, hard-----	3	92	
Shale, blue-----	--	92	

Well 12/7W- 7F7

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	30	30	
Hardpan, gray-----	20	50	
Softpan, dark-----	16	66	
Sand and gravel-----	2	68	W.B.

Well 12/7W- 7G1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	23	23	
Muck, soft, gray-----	7	30	
Hardpan, gray-----	59	89	
Gravel, and some sand-----	2	91	W.B.
Hardpan, dark-----	4	95	
Softpan, yellow-----	16	111	
Sand, fine, white-----	.5	111.5	"Like flour"
Hardpan-----	.5	112	
Pennsylvanian system:			
Middle series:			
Shale, sandy, blue-----	4	116	
Shale, sandy, light-----	4	120	
Sandstone, gray-----	12	132	W.B.
Lower series:			
Shale, sandy, blue-----	15	147	
Shale, dark-----	--	147	

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

Well 12/7W- 7K1		Altitude: About 600 feet.	
Type of record: Driller's log.			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Hardpan, gray-----	25	45	
Softpan, dark-----	23	68	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	3	71	
Slate, black-----	3	74	
Coal-----	1	75	
Fire clay-----	5	80	
Shale, gray-----	5	85	
Limestone, shell-----	1	86	
Slate, black-----	4	90	
Coal-----	3	93	
Fire clay-----	3	96	
Shale, light-gray-----	12	108	
Shale, sandy, gray-----	3	111	
Shale, gray-----	5	116	
Shale, sandy, light-gray-----	6	122	
Lower series:			
Shale?, gray-----	3	125	
Coal, trace-----	--	125	
Fire clay-----	2	127	
Shale, light-gray-----	3	130	
Slate, blue-----	4	134	
Coal, trace-----	--	134	
Fire clay-----	3	137	
Shale, gray-----	3	140	
Rock, hard, blue-----	3	143	Limestone (?)
Shale, blue-----	3	146	
Coal, trace-----	--	146	
Fire clay, hard-----	2	148	
Shale, sandy, gray-----	28	176	
Shale, blue-----	6	182	
Coal-----	1	183	
Fire clay-----	3	186	
Shale, sandy, blue-----	10	196	
Shale, dark-blue-----	7	203	
Coal, trace-----	--	203	
Fire clay (?)-----	3	206	
Shale (?), gray-----	5	211	
Shale, dark-blue-----	5	216	
Coal, grace-----	--	216	
Fire clay-----	3	219	
Shale, sandy, gray-----	13	232	
Shale, sandy, light-gray-----	12	244	
Shale, sandy, blue-----	11	255	
Sandstone, white-----	8	263	W.B.
Sandstone, gray-----	43	306	W.B.

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

Well 12/7W- 7L1

Type of record: Driller's log.

Altitude: About 600 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Open well-----	25	25	
Pan-----	10	35	
Pennsylvanian system:			
Middle series:			
Sandstone-----	21	56	
Mine opening-----	6	62	
Clay-----	3	65	
Shale, dark-gray-----	7	72	
Coal-----	1.5	73.5	
Clay-----	3.5	77	
Sandstone-----	5	82	
Coal-----	1	83	
Clay-----	2	85	
Shale, gray-----	2	87	
Slate, black-----	5	92	
Shale, gray-----	5	97	
White top-----	8	105	
Shale, sandy, hard-----	20	125	

Well 12/7W- 7Q1

Type of record: Driller's log.

Altitude: About 600 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Softpan-----	15	35	
Pennsylvanian system:			
Middle series:			
Fire clay-----	8	43	
Slate, blue-----	7	50	
Slate, dark-----	10	60	
Slate, black-----	6	66	
Coal-----	1	67	
Fire clay, blue-----	3	70	
Shale, gray-----	10	80	
Slate, blue-----	6	86	
Coal-----	1	87	
Fire clay-----	5	92	

Well 12/7W- 8A1

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-----	14	28	

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

Well 12/7W- 8A1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, light-----	12	40	
Coal-----	2	42	
Shale, dark-----	3	45	
Shale, light-----	6	51	
Sandstone-----	31	82	
Lower? series:			
Shale, dark-----	21	103	
Sandstone-----	22	125	
Shale, dark-----	10	135	
Shale, sandy-----	75	210	

Well 12/7W- 8A4

Type of record: Driller's log.

Altitude: About 600 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Sand-----	3	19	
Softpan, yellow-----	1	20	
Hardpan, gray-----	5	25	
Pennsylvanian system:			
Middle series:			
Slate, dark-blue-----	5	30	
Coal-----	3	33	
Fire clay-----	4	37	
Shale, white-----	6	43	
Shale, sandy, hard, white-----	5	48	
Limestone, very hard-----	6	54	
Shale, sandy, hard, light-----	9	63	
Sandstone, white-----	14	77	W.B.
Sandstone, light-blue-----	17	94	W.B.
Shale, light-----	--	94	

Well 12/7W- 8D1

Type of record: Driller's log.

Altitude: About 605 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan-----	19	37	
Sand and gravel-----	1	38	W.B.
Hardpan-----	6	44	



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

## Well 12/7W- 8D2

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	19	19	
Softpan, yellow-----	7	26	
Sand and gravel-----	2	28	W.B.
Hardpan, gray-----	32	60	
Sand, dirty-----	10	70	
Pennsylvanian system:			
Middle series:			
Sandstone, gray-----	10	80	
Shale, gray-----	3	83	
Sandstone, gray-----	7	90	W.B.
Shale, blue-----	12	102	

## Well 12/7W- 8D4

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Softpan, yellow-----	5	20	
Softpan, gray-----	15	35	
Sand and gravel, dirty-----	9	44	W.B.
Pennsylvanian system:			
Middle series:			
Sandstone, pasty, light-----	39	83	W.B.
Sandstone, blue-----	4	87	W.B.
Shale, sandy, gray-----	5	92	

## Well 12/7W- 8P1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan, gray-----	35	50	
Softpan, dark-----	3	53	
Sand and gravel-----	1	54	W.B.

Well ~~12/7W~~- 9D1

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

Dug well-----			
	34	34	
Pennsylvanian system:			
Middle series:			
Shale, sandy, light-----	17	51	
Sandstone, white-----	9	60	W.B.
Sandstone, blue-----	3	63	W.B.
Shale?, light-----	3	66	
Shale, blue-----	4	70	

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

## Well 12/7W-11A1

Type of record: Driller's log.

Altitude: About 675 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil and pan-----	12	12	
Pennsylvanian system:			
Middle series:			
Shale, brown to dark-gray----	7	19	
Coal-----	1.5	20.5	
Shale, gray, to gray, sandy shale-----	50.5	71	
Sandstone-----	3	74	
Shale, medium-hard, dark-gray-	33	107	
Shale, sandy-----	6	113	
Sandstone-----	6	119	
Lower series:			
Shale, sandy, gray-----	2	121	
Limestone-----	5	126	

## Well 12/7W-11J1

Type of record: Driller's log.

Altitude: About 670 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan-----	7	25	
Pennsylvanian system:			
Lower series:			
Shale, white-----	14	39	
Slate, blue-----	8	47	
Fire clay-----	2	49	
Shale, sandy, light-----	5	54	
Slate, blue-----	28	82	
Slate, sandy, gray-----	2	85	
Coal-----	1	86	
Clay-----	2	88	
Slate, blue-----	12	100	
Slate, sandy, gray-----	8	108	
Coal-----	3	111	
Clay-----	1	112	
Slate, sandy, light-----	15	127	
Coal-----	1	128	
Shale, sandy, light-----	55	183	
Sandstone, gray-----	37	220	
Sandstone, white and gray----	52	272	

## Well 12/7W-12A2

Type of record: Driller's log.

Altitude: About 660 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Softpan, yellow-----	10	26	
Pan, sandy, dark-----	14	40	

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

Well 12/7W-12A2--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Slate, blue-----	3	43	
Coal-----	1	44	
Fire clay-----	4	48	
Cavey and broken-down material	15	63	
Mine opening-----	3	66	
Fire clay-----	3	69	
Shale, sandy, light-----	3	72	
Slate, sandy, gray-----	5	77	
Fire clay-----	13	90	"Cavey"
Shale, sandy, light-----	3	93	
Shale, sandy, dark-----	14	107	
Coal-----	1	108	
Shale, sandy, gray-----	7	115	W.B.
Shale, sandy, blue-----	5	120	
Shale, gray-----	10	130	
Shale, sandy, blue-----	20	150	
Sandstone, blue-----	5	155	
Shale, sandy, blue-----	10	165	

## Well 12/7W-12C1

Type of record: Driller's log.

Altitude: About 650 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	13	13	
Pennsylvanian system:			
Lower series:			
Limestone-----	1	14	
Coal and clay-----	7.5	21.5	
Shale, sandy, blue-----	37.5	59	
Coal-----	1	60	
Clay-----	1	61	
Slate, sandy, gray-----	17	78	
Coal-----	2	80	
Clay-----	1	81	
Clay rock-----	9	90	
Slate, blue-----	12	102	

## Well 12/7W-12H1

Type of record: Driller's log.

Altitude: About 640 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Pennsylvanian system:			
Middle (?) series:			
Sandstone-----	5	25	
Lower series:			
Slate, blue-----	25	50	
Fire clay-----	3	53	
Slate, gray-----	15	68	
Coal-----	1	69	
Fire clay-----	3	72	

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

Well 12/7W-12H1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Slate, blue-----	7	79	
Shale, sandy, blue-----	52	131	
Sandstone, white-----	21	152	W.B.
Well 12/7W-12H2			
Type of record: Driller's log.		Altitude: About 650 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Hardpan-----	8	22	
Softpan-----	8	30	
Hardpan-----	10	40	
Pennsylvanian system:			
Lower series:			
Shale, sandy, gray-----	17	57	
Coal-----	3	60	
Clay-----	3	63	
Shale, sandy, gray-----	8	71	
Coal-----	.5	71.5	
Clay-----	1.5	73	
Shale, sandy, gray-----	7	80	
Shale, sandy, dark-gray-----	16	96	W.B.
Sandstone-----	8	104	
Shale, sandy, gray-----	21	125	
Well 12/7W-12J2			
Type of record: Driller's log.		Altitude: About 640 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Softpan, yellow-----	35	53	
Pennsylvanian system:			
Lower series:			
Slate, hard, blue-----	9	62	
Clay?, light-----	3	65	
Shale, sandy, light-blue-----	2	67	
Slate, dark-blue-----	6	73	
Fire clay, hard, blue-----	3	76	
Shale, sandy, blue-----	56	132	
Sandstone, hard, blue-----	4	136	W.B.
Sandstone-----	24	160	W.B.
Well 12/7W-12J3			
Type of record: Driller's log.		Altitude: About 645 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface and pan-----	15	15	
Hardpan-----	15	30	
Softpan-----	25	55	
Sand and gravel-----	27	82	

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

Well 12/7W-12J3--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Shale, sandy, gray-----	15	97	
Sandstone-----	25	122	
Shale, sandy, gray-----	17	139	
Sandstone-----	3	142	
Shale, sandy, gray-----	13	155	
Sandstone-----	7	162	
Shale, sandy, gray-----	4	166	
Sandstone-----	49	215	W.B.

Well 12/7W-12R1

Type of record: Driller's log.

Altitude: About 630 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	2.5	2.5	
Hardpan-----	38.5	41	
Sand and gravel-----	28.5	69.5	
Pennsylvanian system:			
Lower series:			
Coal-----	1.5	71	
Clay to gray shale-----	1	72	
Sandstone-----	4	76	
Shale, sandy, gray-----	28.5	104.5	
Sandstone-----	113.5	218	W.B.

Well 12/7W-13A1

Type of record: Driller's log.

Altitude: About 640 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan-----	55	65	
Sand-----	11	76	
Pennsylvanian system:			
Lower series:			
Shale, sandy, gray-----	40	116	
Shale, sandy, light-----	20	136	
Shale, sandy, gray-----	22	158	
Sandstone, white-----	8	166	W.B.

Well 12/7W-13C1

Type of record: Driller's log.

Altitude: about 650 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	19	19	

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

Well 12/7W-13C1--Continued

Material	Thick-ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Slate, blue-----	26	45	
Coal-----	3.5	48.5	
Fire clay, soft-----	.5	49	
Clay rock, hard, and sandstone-	8	57	
Shale, sandy, blue-----	2	59	
Clay, white, and dark, soft shale-----	8	67	"Cavey"
Shale, sandy, blue-----	10	77	
Shale, dark-----	25	102	
Shale, sandy, blue-----	55	157	W.B.

Well 12/7W-13C2

Type of record: Driller's log.

Altitude: About 640 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and pan-----	24	24	
Pennsylvanian system:			
Lower series:			
Shale, dark-gray-----	33	57	
Mine opening-----	4	61	
Clay-----	1	62	
Shale, sandy, gray-----	34	96	
Sandstone-----	10	106	
Shale, sandy, dark-gray-----	34	140	
Sandstone-----	10	150	
Shale, sandy, dark-gray-----	10	160	
Slate, black-----	4	164	
Shale, sandy, gray-----	2	166	
Sandstone-----	3	169	
Shale, sandy, gray-----	13	182	
Shale, sandy, dark-gray-----	6	188	
Sandstone-----	30	218	W.B.

Well 12/7W-13H1

Type of record: Driller's log.

Altitude: About 635 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Pennsylvanian system:			
Lower series:			
Sandstone, brown-----	15	29	
Sandstone, gray-----	10	39	
Shale, blue-----	3	42	
Coal-----	1	43	
Clay-----	2	45	

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

Well 12/7W-13H1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Shale, gray-----	11	56	
Coal-----	2	58	
Clay-----	2	60	
Shale, sandy, light-----	20	80	
Slate, black-----	23	103	
Shale, sandy, light-----	25	128	
Sandstone, gray-----	10	138	
Shale, sandy, dark-----	12	150	
Sandstone, gray-----	8	158	W.B.
Shale, sandy, light-----	2	160	

Well 12/7W-14D1

Type of record: Driller's log.

Altitude: About 660 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Softpan-----	16	36	
Sand and gravel-----	1	37	W.B.
Softpan, yellow-----	8	45	
Pennsylvanian system:			
Middle series:			
Slate, dark-----	2	47	
Coal-----	2	49	W.B.
Fire clay, blue-----	4	53	
Slate, blue-----	7	60	
Coal-----	1	61	W.B.
Shale, gray-----	7	68	
Lower? series:			
Coal-----	1	69	W.B.
Clay, white-----	11	80	
Limestone, gray-----	2	82	
Shale, gray-----	18	100	
Shale, dark-----	3	103	
Shale, gray-----	7	110	
Slate, dark-----	5	115	
Fire clay, blue-----	2	117	W.B.
Shale, sandy, gray-----	9	126	
Shale, dark-gray-----	12	138	
Shale, blue-----	8	146	

Well 12/7W-14R1

Type of record: Driller's log.

Altitude: About 650 feet.

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

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

Well 12/7W-14R1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Pan-----	24.5	34.5	
Pennsylvanian system:			
Middle series:			
Coal-----	.5	35	
Shale, sandy, gray-----	37	72	
Lower? series:			
Coal-----	2	74	
Clay-----	2	76	
Shale, sandy, gray-----	9	85	

Well 12/7W-15A1

Type of record: Driller's log.

Altitude: About 660 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and pan-----	15	15	
Sand-----	1	16	
Hardpan-----	28	44	
Softpan-----	36	80	
Quicksand-----	3	83	
Hardpan-----	12	95	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	12	107	
Shale, sandy, dark-gray-----	15	122	
Coal and jack-----	1.5	123.5	
Shale, dark-gray-----	4.5	128	W.B.
Shale, sandy, medium-hard gray-----	14	142	
Shale, sandy, hard, gray-----	23	165	W.B.

Well 12/7W-15N1

Type of record: Driller's log.

Altitude: About 660 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and boulder clay-----	22	22	
Pennsylvanian system:			
Lower series:			
Fire clay-----	10	32	
Shale, gray-----	3	35	
Coal-----	6	41	
Fire clay-----	3	44	
Shale, sheety, black-----	4	48	
Coal-----	1.5	49.5	



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

## Well 12/7W-16B1

Type of record: Driller's log.

Altitude: About 650 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan, gray-----	50	68	
Softpan, yellow-----	12	80	
Sand and gravel-----	8	88	W.B.

## Well 12/7W-16B3

Type of record: Driller's log.

Altitude: About 645 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Hardpan-----	10.5	26.5	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	19.5	46	
Slate, black-----	4	50	
Clay-----	24	74	
Lower? series:			
Slate, black-----	8	82	
Coal-----	1	83	
Fire clay-----	19	102	
Slate, gray-----	34.5	136.5	
Coal-----	2.5	139	
Fire clay-----	5	144	
Shale, sandy, dark-----	5	149	
Clay-----	10	159	
Shale, sandy, dark-----	8	167	
Shale, sandy, gray-----	8	175	
Shale, clayey, gray-----	30	205	
Shale, dark-----	8	213	
Coal-----	1	214	
Shale, clayey-----	7	221	
Shale, sandy, dark-----	16	237	
Sandstone, white-----	21	258	W.B.
Shale, sandy, dark-----	8	266	
Sandstone, white-----	5	271	W.B.
Shale, dark-----	7	278	
Sandstone, white-----	43	321	
Shale, blue-----	3	324	

## Well 12/7W-16B4

Type of record: Driller's log.

Altitude: About 645 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	4	4	

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

Well 12/7W-16B4--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	10	14	
Hardpan-----	41	55	
Wash-----	16	71	
Sand-----	8.5	79.5	
Gravel-----	.5	80	
Pennsylvanian system:			
Lower series:			
Slate, black-----	3	83	
Fire clay-----	20	103	
Slate, sandy, gray-----	28	131	
Slate, black-----	1	132	
Coal-----	4	136	
Fire clay-----	6	142	
Slate, gray-----	38	180	
Limestone, dark-----	5	185	
Slate, sandy, gray-----	5	190	
Shale, sandy-----	10	200	
Sandstone, dark-----	10	210	
Slate, blue-----	10	220	
Sandstone, white-----	25	245	W.B.

Well 12/7W-16C2

Type of record: Driller's log.

Altitude: About 635 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan-----	39	54	
Gravel-----	4	58	
Hardpan-----	16	74	
Sand-----	11	85	
Pennsylvanian system:			
Lower series:			
Shale, dark-----	13	98	
Shale, light-----	12	110	
Sandstone-----	23	133	
Shale, dark-----	11	144	
Coal-----	4	148	
Shale, sandy-----	13	161	
Shale, dark-----	4	165	
Shale, light-----	5	170	
Shale, dark-----	15	185	
Shale, light-----	4	189	
Shale, gray-----	22	211	

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

## Well 12/7W-16F1

Type of record: Driller's log.

Altitude: About 630 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Open well-----	17	17	
Pan-----	33	50	
Clay-----	10	60	
Pennsylvanian system:			
Middle series:			
White top-----	10	70	
Coal-----	.5	70.5	
Clay-----	1.5	72	
Lower? series:			
Shale, gray-----	8	80	
Coal-----	3	83	W.B.
Clay-----	2	85	
Shale, gray-----	9	94	

## Well 12/7W-16G2

Type of record: Driller's log.

Altitude: About 660 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	5	5	
Gravel, fine, with red sand-----	15	20	
Gravel-----	5	25	
Gravel, some hardpan-----	5	30	
Pennsylvanian system:			
Middle series:			
Clay, blue, and shale-----	80	110	
Lower series:			
Limestone-----	5	115	
Shale, blue-----	15	130	
Coal-----	3	133	
Shale, blue-----	12	145	
Shale, gray-----	5	150	
Sandstone, fine gray-----	10	160	
Shale, gray-----	50	210	
Shale, chalky, white, with streaks of sandstone-----	7	217	
Sandstone, gray-----	35	252	W.B.
Shale, dark-----	2	254	
Sandstone, black-----	28	282	W.B.
Shale, dark, with streaks of sandstone-----	11	293	
Sandstone, gray with streaks of shale-----	16	309	W.B.
Shale, blue-----	6	315	
Sandstone, gray, with streaks of shale-----	57	372	W.B.
Shale, dark-----	8	380	

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

Well 12/7W-16H1

Type of record: Driller's log. Altitude: About 655 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	
Hardpan-----	57	74	
Sand and gravel, dirty, yellow-	1	75	
Pennsylvanian system:			
Lower series:			
Shale, soft, blue-----	19	94	
Shale, hard, blue-----	27	121	
Coal-----	2	123	

Well 12/7W-16K1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Hardpan, gray-----	45	61	
Pennsylvanian system:			
Middle series:			
Shale, light-----	5	66	
Shale, sandy, blue-----	4	70	
Shale, soft, white-----	5	75	
Lower series:			
Slate, dark-blue-----	19	94	
Coal-----	1	95	
Fire clay-----	5	100	
Slate, sandy, gray-----	38	138	
Coal-----	4	142	
Clay, hard-----	3	145	
Shale, sandy, gray-----	20	165	
Shale, dark-----	10	175	
Shale, gray-----	30	205	
Shale, sandy, gray-----	21	226	
Sandstone-----	20	246	W.B.

Well 12/7W-16K2

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	12	12	
Hardpan-----	10	22	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	2	24	
Coal-----	2	26	
Fire clay, soft-----	20	46	

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

## Well 12/7W-16K2--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, dark-gray-----	18	64	
Slate, dark-----	2	66	
Coal-----	1	67	
Fire clay, hard-----	2	69	
Shale, light-----	7	76	

## Well 12/7W-16Q1

Type of record: Driller's log.

Altitude: 660 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	6	21	
Coal-----	1	22	
Fire clay-----	3	25	
Slate, blue-----	5	30	
Fire clay-----	20	50	
Slate, sandy, gray, with traces of coal-----	5	55	
Fire clay-----	6	61	
Slate, blue-----	7	68	
Coal-----	2	70	W.B.
Fire clay-----	3	73	
Slate, blue-----	12	85	

## Well 12/7W-17A1

Type of record: Driller's log.

Altitude: About 600 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand-----	12	12	
Hardpan-----	7	19	
Pennsylvanian system:			
Middle series:			
Sandstone-----	10	29	
Shale, gray-----	96	125	
Lower series:			
Coal-----	1	126	
Clay-----	3	129	
Clay rock-----	10	139	
Shale, gray-----	27	166	
Coal-----	1	167	
Shale, light-----	48	215	
Sandstone, gray-----	15	230	
Shale, sandy, gray-----	50	280	

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

## Well 12/7W-17A1-Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Sandstone-----	65	345	
Shale, sandy, dark-----	10	355	
Sandstone, white-----	84	439	

## Well 12/7W-18L1

Type of record: Driller's log.		Altitude: About 595 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Sand, dirty-----	1	19	
Hardpan-----	6	25	
Pennsylvanian system:			
Middle series:			
Sandstone, pasty-----	6	31	
Slate, blue-----	19	50	

## Well 12/7W-19C1

Type of record: Driller's log.		Altitude: About 610 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan-----	40	55	
Pennsylvanian system:			
Middle series:			
Slate, black-----	10	65	
Coal-----	1	66	
Clay-----	1	67	
Shale, gray-----	8	75	
Coal-----	6	81	
Shale, dark-gray-----	7	88	
Shale, sandy, light-----	15	103	
Slate, black-----	3	106	
Shale, dark-gray-----	10	116	
Shale, sandy, light-gray-----	12	128	
Coal-----	.5	128.5	
Clay-----	3.5	132	

## Well 12/7W-19R1

Type of record: Driller's log.		Altitude: About 635 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan, gray-----	11	29	
Gravel and sand-----	8	37	W.B.

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

Well 12/7W-22L1

Type of record: Driller's log.

Altitude: About 630 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface sand-----	4	4	
Softpan, dark, and gravel-----	8	12	
Hardpan, gray-----	15	27	
Softpan and sand-----	8	35	
Pennsylvanian system:			
Middle series:			
Shale, light-----	5	40	
Shale, blue-----	4	44	
Coal-----	2	46	W.B.
Clay-----	1	47	
Shale, sandy-----	3	50	

Well 12/7W-22L2

Type of record: Driller's log.

Altitude: About 650 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	5	5	
Hardpan, gray-----	27	32	
Sand and gravel-----	1	33	W.B.
Softpan, yellow-----	4	37	
Pennsylvanian system:			
Middle series:			
Fire clay, light-----	2	39	
Shale, white-----	11	50	
Lower? series:			
Slate, blue-----	36	86	
Coal-----	2	88	W.B.
Fire clay-----	2	90	
Shale, sandy, gray-----	10	100	
Sandstone, gray-----	5	105	
Shale, sandy, blue-----	6	111	
Slate, black-----	1	112	
Coal-----	3	115	W.B.
Clay-----	2	117	
Shale, sandy, light-----	8	125	

Well 12/7W-24J1

Record: Driller's log.

Altitude: About 630 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	4	4	
Pennsylvanian system:			
Lower series:			
Slate-----	28	32	

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

Well 12/7W-24J1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Coal-----	1	33	
Clay-----	15	48	
Shale, clayey-----	9	57	
Coal-----	2	59	
Clay rock-----	10	69	
Sandstone-----	36	105	
Slate, black-----	1	106	
Slate, sandy, gray-----	12	118	
Shale, blue-----	30	148	
Shale, gray-----	34	182	
Coal, smut-----	.5	182.5	
Slate, gray-----	1.5	184	

Well 12/7W-25L1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Hardpan, yellow-----	47	63	
Wash-----	20	83	
Sand and gravel-----	1	84	W.B.
Pennsylvanian system:			
Lower series:			
Coal-----	--	84	

Well 12/7W-27R1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Hardpan-----	10	30	
Sand and gravel-----	2	32	
Pennsylvanian system:			
Middle series:			
Sandstone, yellow-----	18	50	
Shale, sandy, light-----	12	62	
Shale, light-----	3	65	
Slate, blue-----	40	105	
Shale, sandy, dark-----	10	115	
Lower series:			
Slate, black-----	5	120	
Slate, dark-----	10	130	
Slate, black-----	2	132	
Coal-----	1	133	
Clay, hard, light-----	2	135	



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

Well 12/7W-27R1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Shale, cavey, light-----	20	155	
Shale, sandy, blue-----	8	163	
Shale, sandy, light-----	5	168	
Coal, trace-----	--	168	
Fire clay, blue-----	2	170	
Shale, sandy, light-blue-----	24	194	
Shale, gray-----	4	198	
Shale, dark-blue-----	17	215	
Shale, blue-----	4	219	
Shale, gray-----	4	223	
Sandstone, gray-----	4	227	W.B.
Sandstone, white-----	30	257	W.B.
Shale, sandy, blue-----	5	262	

Well 12/7W-28P1

Type of record: Driller's log.

Altitude: About 635 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	13	13	
Hardpan-----	27	40	
Pennsylvanian system:			
Middle series:			
Slate-----	30	70	
Sandstone-----	5	75	W.B.
Slate, gray-----	10	85	

Well 12/7W-28R1

Type of record: Driller's log.

Altitude: About 650 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	8	8	
Hardpan, yellow-----	11	19	
Pennsylvanian system:			
Middle series:			
Slate, black-----	15	34	
Fire clay, tough-----	3	37	
Shale, clayey-----	15	52	
Slate, sandy, gray-----	28	80	
Slate, brown-----	8	88	
Coal-----	6	94	
Fire clay-----	1	95	
Shale, gray-----	4	99	
Slate, black-----	8	107	

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

Well 12/7W-29C1

Type of record: Driller's log.

Altitude: About 660 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Softpan, yellow-----	10	25	
Hardpan, gray-----	11	36	
Pennsylvanian system:			
Middle series:			
Sandstone, yellow-----	6	42	
Slate, soft, gray-----	3	45	
Coal-----	2	47	
Slate, soft, gray-----	3	50	
Slate, sandy, gray-----	14	64	

Well 12/7W-29E1

Type of record: Driller's log.

Altitude: About 650 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	21	21	
Hardpan, gray-----	12	33	
Softpan, dark-----	27	60	
Softpan, yellow-----	6	66	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	6	72	
Slate, black-----	10	82	W.B.
Coal, trace-----	--	82	
Fire clay?-----	3	85	

Well 12/7W-30D1

Type of record: Driller's log.

Altitude: About 600 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Pan-----	33	48	
Sand and gravel-----	2	50	W.B.

Well 12/7W-30M1

Type of record: Driller's log.

Altitude: About 600 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan-----	36	54	
Sand and gravel-----	4	58	W.B.

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

## Well 12/7W-30R1

Type of record: Driller's log.

Altitude: About 630 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Hardpan-----	52	66	
Pennsylvanian system:			
Middle series:			
Slate, hard, blue-----	3	69	
Slate, black-----	11	80	
Coal-----	1	81	
Fire clay-----	2	83	
Slate, gray-----	7	90	
Coal-----	7	97	
Fire clay-----	2	99	
Shale, sandy, blue-----	10	109	
Shale, sandy, gray-----	9	118	
Shale, sandy, blue-----	5	123	
Rock, dark-----	3	126	W.B.; limestone (?)
Shale, blue-----	2	128	
Shale, light-gray-----	5	133	

## Well 12/7W-31A1

Type of record: Driller's log.

Altitude: About 630 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Pan, sandy-----	52	67	
Sand-----	12	79	
Pennsylvanian system:			
Middle series:			
Shale, dark-gray-----	3	82	
Coal-----	2	84	
Shale, dark-gray-----	8	92	
Rock-----	1.5	93.5	Limestone (?)
Shale, dark-gray-----	7.5	101	
Shale, sandy, light-gray-----	13	114	
Shale, light-gray-----	5	119	
Sandstone, dark-----	3.5	122.5	
Coal-----	2.5	125	

## Well 12/7W-31B1

Type of record: Driller's log.

Altitude: About 630 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Pan, sandy-----	76	92	

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

## Well 12/7W-31B1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, light-gray-----	19	111	
Coal-----	2	113	
Shale, light-gray-----	39	152	
Coal-----	1.5	153.5	
Clay-----	1.5	155	
Shale, gray-----	7	162	

## Well 12/7W-31B2

Type of record: Driller's log.

Altitude: About 635 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Softpan, yellow-----	16	34	
Sand and gravel-----	3	37	
Hardpan-----	1	38	
Sand and gravel-----	1	39	W.B.

## Well 12/7W-32R1

Type of record: Driller's log.

Altitude: About 650 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Gravel-----	10	25	
Hardpan and gravel-----	33	58	
Pennsylvanian system:			
Middle series:			
Sandstone-----	14	72	
Limestone-----	3	75	
Slate, black-----	18	93	
Shale, light-----	1	94	
Coal-----	5	99	
Dirt-----	1	100	
Coal-----	2	102	
Fire clay-----	3	105	
Slate, black-----	12	117	
Shale, light-----	3	120	

## Well 12/7W-33A1

Type of record: Driller's log.

Altitude: About 690 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan-----	10	25	

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

## Well 12/7W-33A1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Slate, sandy-----	30	55	
Slate, gray-----	10	65	
Slate, black-----	4	69	
Coal-----	6	75	
Fire clay-----	7	82	
Shale, blue-----	2	84	

## Well 12/7W-33R1

Type of record: Driller's log.

Altitude: About 675 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Hardpan-----	32	52	
Pennsylvanian system:			
Middle series:			
Shale, black-----	10	62	
Slate, black-----	6	68	

## Well 12/7W-34B1

Type of record: Driller's log.

Altitude: About 650 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	24	24	
Hardpan, gray-----	11	35	
Softpan, dark-----	15	50	
Clay, sandy, soft-----	3	53	
Pennsylvanian system:			
Middle series:			
Shale, sandy, light-----	6	59	
Sandstone, pasty-----	4	63	
Sandstone-----	37	100	
Lower? series:			
Shale, sandy, blue-----	18	118	
Shale, sandy, light-----	12	130	
Shale, dark-----	15	145	
Slate, black-----	2	147	
Coal-----	2	149	
Clay, hard-----	1	150	
Shale, sandy, light-----	5	155	
Shale, dark-----	6	161	

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

Well 12/7W-34G1

Type of record: Driller's log.

Altitude: About 660 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	24	24	
Softpan, gray-----	22	46	
Sand and gravel, dirty, trace--	--	46	
Hardpan-----	4	50	
Pennsylvanian system:			
Middle series:			
Coal-----	2	52	
Slate, blue-----	7	59	
Slate, hard, blue-----	2	61	
Coal-----	5	66	W.B.
Fire clay-----	2	68	
Shale, sandy, light-----	.5	68.5	

Well 12/7W-34L1

Type of record: Driller's log.

Altitude: About 650 feet.

Quaternary system:			
Recent and Pleistocens series:			
Soil-----	3	3	
Clay-----	7	10	
Hardpan-----	10	20	
Gravel-----	24	44	
Sand and gravel-----	11	55	W.B.
Pennsylvanian system:			
Middle series:			
Shale-----	10	65	
Coal-----	2	67	
Shale-----	6	73	
Coal-----	2	75	
Shale-----	10	85	
Shale, sandy-----	13	98	
Shale-----	27	125	
Shale, sandy-----	10	135	
Lower series:			
Shale-----	15	150	
Limestone, sandy-----	10	160	
Shale-----	20	180	
Shale, sandy-----	10	190	
Shale-----	25	215	
Sandstone-----	10	225	
Shale-----	40	265	
Limestone-----	5	270	
Shale-----	45	315	
Limestone-----	15	330	T.D. 3,100 ft.

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

## Well 12/7W-34P1

Type of record: Driller's log.

Altitude: About 660 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Hardpan-----	40	56	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	22	78	
Sandstone, white-----	10	88	W.B.
Shale, sandy-----	32	120	
Sandstone-----	3	123	W.B.

## Well 12/7W-35B1

Type of record: Driller's log.

Altitude: About 630 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface clay-----	17	17	
Hardpan, gray-----	41	58	
Sand and gravel, dirty-----	3	61	
Hardpan, gray-----	4	65	
Wash-----	5	70	
Pennsylvanian system:			
Lower series:			
Slate, blue-----	2	72	
Coal-----	1	73	
Fire clay, dark-blue-----	2	75	
Shale, sandy, gray-----	22	97	
Slate, blue-----	4	101	
Coal-----	1.5	102.5	
Fire clay-----	1.5	104	
Shale, sandy, white-----	2	106	
Sandstone-----	4	110	W.B.

## Well 12/7W-35J1

Type of record: Driller's log.

Altitude: About 610 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Hardpan-----	40	60	
Pennsylvanian system:			
Lower series:			
Slate, blue-----	20	80	
Coal-----	2	82	W.B.
Clay-----	4	86	
Slate, sandy, gray, with sand- stone bands-----	4	90	

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

Well 13/6W- 2E1

Type of record: Driller's log.

Altitude: About 755 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	24	24	
Sand-----	6	30	
Hardpan-----	2	32	
Gravel-----	1	33	W.B.
Hardpan-----	15	48	
Softpan, yellow-----	12	60	
Pennsylvanian system:			
Lower series:			
Shale, sandy, gray-----	12	72	
Sandstone-----	8	80	
Shale, gray-----	7	87	
Sandstone-----	3	90	
Shale, gray-----	11	101	
Sandstone, gray-----	20	121	
Sandstone-----	9	130	
Slate, black-----	9	139	
Coal-----	3	142	
Sandstone-----	6	148	
Shale, sandy, gray-----	7	155	
Shale, light-gray-----	3	158	
Shale, sandy, gray-----	2	160	
Sandstone-----	24	184	
Mississippian? system:			
Chester? series:			
Limestone-----	13	197	

Well 13/6W- 2H1

Type of record: Driller's log.

Altitude: About 741 feet.

Record missing-----	1	1	
Pennsylvanian system:			
Lower series:			
Sandstone-----	49	50	
Mud, blue-----	30	80	
Shale, gray-----	45	125	
Sandstone, white-----	20	145	
Shale, black, and slate-----	45	190	
Mississippian system:			
Meramec? series:			
Limestone, white-----	20	210	
Shale, gray-----	10	220	
Limestone, white-----	30	250	
Shale, brown-----	25	275	
Sandstone and shale-----	25	300	
Sandstone-----	15	315	W.B.
Limestone, white-----	90	405	



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

## Well 13/6W- 2H1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Mississippian system:			
Meramec? series:			
Sandstone, white-----	5	410	
Slate, black-----	5	415	
Limestone, white-----	5	420	

## Well 13/6W- 3A1

Type of record: Driller's log.

Altitude: About 750 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	40	40	
Sand, fine, dirty, yellow-----	12	52	
Hardpan-----	18	70	
Pennsylvanian system:			
Lower series:			
Shale, blue-----	7	77	
Slate, black-----	5	82	
Shale, light-----	5	87	
Sandstone-----	7	94	
Slate, gray-----	16	110	
Shale, blue-----	10	120	
Shale, black-----	15	135	
Shale, light-----	5	140	
Sandstone-----	5	145	
Shale, light-----	3	148	

## Well 13/6W- 3D1

Type of record: Driller's log.

Altitude: About 740 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	22	22	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	3	25	
Sandstone-----	13	38	
Shale, sandy, gray-----	7	45	
Sandstone-----	1	46	
Shale, dark-gray-----	9	55	
Shale, sandy, gray-----	25	80	
Sandstone-----	30	110	W.B.

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

Well 13/6W- 4J1

Type of record: Driller's log. Altitude: About 715 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Pan-----	10	20	
Clay-----	5	25	
Pennsylvanian system:			
Lower series:			
Shale, dark-gray-----	12	37	
Coal-----	.5	37.5	
Clay-----	1	38.5	
Shale, gray-----	11.5	50	
Sandstone-----	61	111	W.B.

Well 13/6W- 4R1

Type of record: Driller's log. Altitude: About 705 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan, gray-----	3	21	
Pennsylvanian system:			
Lower series:			
Slate, blue-----	4	25	
Fire clay-----	8	33	
Slate, sandy, gray-----	17	50	W.B.
Shale, blue-----	30	80	

Well 13/6W- 5D1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Softpan, yellow-----	6	24	
Hardpan, gray-----	12	36	
Pennsylvanian system:			
Lower series:			
Slate, gray-----	15	51	
Coal-----	3	54	
Fire clay-----	.6	60	
Cavey broken-down material-----	15	75	
Mine opening-----	5	80	
Clay rock, brown-----	3	83	
Shale, dark-gray-----	6	89	
Shale, sandy, gray-----	25	114	
Shale, sandy, blue-----	36	150	
Sandstone, white-----	22	172	W.B.
Shale, blue-----	1	173	

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

Well 13/6W- 5E1

Type of record: Driller's log.

Altitude: About 690 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Pan, sandy-----	12	32	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	5	37	
Coal-----	2	39	
Clay-----	8	47	
Shale, gray-----	5	52	
Sandstone-----	13	65	
Shale, gray-----	1	66	
Coal-----	3	69	
Clay-----	2	71	
Shale, gray-----	11	82	
Coal-----	1	83	
Clay-----	1	84	
Shale, sandy, gray-----	10	94	
Sandstone-----	21	115	
Shale, sandy, gray-----	15	130	
Sandstone-----	30	160	W.B.

Well 13/6W- 5L1

Type of record: Driller's log.

Altitude: About 690 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan-----	24	39	
Softpan-----	27	66	
Pennsylvanian system:			
Lower series:			
Shale, dark-gray-----	18	84	
Coal-----	3.5	87.5	
Clay-----	1.5	89	
Shale, gray-----	16	105	
Shale, sandy, light-gray-----	27	132	
Shale, sandy, dark-gray-----	12	144	
Shale, sandy, gray-----	26	170	
Sandstone-----	18	188	W.B.

Well 13/6W- 5N1

Type of record: Driller's log.

Altitude: About 685 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Pan-----	15	35	

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

Well 13/6W- 5N1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Shale, gray-----	3.5	38.5	
Coal-----	3.5	42	
Clay-----	3	45	
Shale, soft, gray-----	25	70	
Shale, gray-----	14	84	
Coal-----	1.5	85.5	
Clay-----	9.5	95	
Shale, gray-----	25	120	
Shale, sandy, light-gray-----	23	143	
Sandstone-----	24	167	W.B.

Well 13/6W- 6A1

Type of record: Driller's log.

Altitude: About 690 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan-----	12	27	
Sand and gravel-----	--	27	W.B.

Well 13/6W- 6E1

Type of record: Driller's log.

Altitude: About 685 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Softpan-----	30	45	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	3	48	
Sandstone-----	7	55	
Shale, gray-----	8	63	
Shale, sandy, gray-----	27	90	
Sandstone-----	35	125	W.B.

Well 13/6W 6H1

Type of record: Driller's log.

Altitude: About 690 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	
Pan-----	13	30	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	8.5	38.5	
Sandstone-----	4.5	43	
Shale, sandy, gray-----	7	50	

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

Well 13/6W- 6H1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Shale, gray-----	3.5	53.5	
Coal-----	.5	54	
Clay-----	6	60	
Shale, gray-----	10	70	
Shale, sandy, dark-gray-----	21	91	
Coal-----	2	93	
Clay-----	2	95	
Sandstone-----	45	140	
Shale, sandy, gray-----	5	145	
Sandstone-----	30	175	W.B.

Well 13/6W- 6J1			
Type of record: Driller's log.			Altitude: About 685 feet.
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Pan-----	10	25	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	15	40	
Coal-----	4	44	
Clay-----	9	53	
Shale, gray-----	7	60	
Shale, sandy, gray-----	12	72	
Coal-----	4	76	"Mine opening"
Clay-----	2	78	
Shale, gray-----	4	82	
Coal-----	.5	82.5	
Clay-----	1.5	84	
Shale, sandy, gray-----	4	88	
Sandstone-----	22	110	
Shale, sandy, gray-----	20	130	
Sandstone-----	25	155	W.B.

Well 13/6W- 6P1			
Type of record: Driller's log.			Altitude: About 690 feet.
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Hardpan-----	16	36	
Softpan-----	10	46	
Pennsylvanian system:			
Lower series:			
Shale, dark-gray-----	6.5	52.5	
Coal-----	1.5	54	W.B.

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

Well 13/6W- 6P1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Clay-----	2	56	
Shale, gray-----	1	57	

Well 13/6W- 6R1

Type of record: Driller's log.

Altitude: About 675 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Pan-----	7	21	
Pennsylvanian system:			
Lower series:			
Coal-----	3	24	
Clay-----	6	30	
Shale, gray-----	9	39	
Sandstone-----	3	42	
Shale, sandy, gray-----	14	56	
Coal-----	3	59	
Clay-----	4	63	
Shale, sandy, gray-----	55	118	
Sandstone-----	34	152	W.B.

Well 13/6W- 7C1

Type of record: Driller's log.

Altitude: About 670 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Softpan-----	1	16	
Pennsylvanian system:			
Lower series:			
Shale, yellow-----	4	20	
Shale, gray-----	20	40	
Coal-----	1	41	
Clay-----	3	44	
Shale, gray-----	3	47	
Sandstone-----	9	56	
Shale, sandy, gray-----	6	62	
Sandstone-----	5	67	
Shale, sandy, gray-----	13	80	

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

Well 13/6W- 7D1		Altitude: About 680 feet.	
Type of record: Driller's log.			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	
Sand-----	2	19	
Pan-----	15.5	34.5	
Pennsylvanian system:			
Lower series:			
Shale, gray-----	10.5	45	
Shale, sandy, yellow-----	10	55	
Shale, dark-gray-----	5	60	
Sandstone, yellow-----	25	85	
Sandstone, gray-----	20	105	W.B.

Well 13/6W- 7F1		Altitude: About 680 feet.	
Type of record: Driller's log.			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Pan-----	34	54	
Mud, sandy-----	11	65	
Pennsylvanian system:			
Lower series:			
Shale, sandy, soft, dark-gray---	25	90	
Sandstone-----	8	98	
Shale, soft, brown-----	9	107	
Sandstone-----	55	162	W.B.

Well 13/6W- 8D1		Altitude: About 685 feet.	
Type of record: Driller's log.			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface; yellow, soft clay-----	6	6	
Hardpan, gray-----	9	15	
Sand, fine, gray-----	9	24	
Hardpan, gray-----	35	59	
Sand and gravel, medium, gray---	11	70	W.B.

Well 13/6W-12H1		Altitude: About 750 feet.	
Type of record: Driller's log.			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Sandstone-----	38	48	W.B.
Shale, blue-----	5	53	
Fire clay-----	3	56	
Shale, blue-----	9	65	

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

Well 13/6W-12H1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower series:			
Shale, light-----	10	75	W.B.
Sandstone-----	9	84	

Well 13/6W-13F1			
Type of record: Driller's log.		Altitude: 690 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	24	24	W.B.
Sand-----	24	48	
Hardpan-----	20	68	
Pennsylvanian system:			
Lower series:			
Sandstone-----	10	78	
Shale, dark-----	22	100	
Shale, sandy-----	5	105	
Shale, light-----	5	110	
Mississippian? system:			
Chester? series:			
Limestone-----	8	118	

Well 13/6W-13L1			
Type of record: Driller's log.		Altitude: About 680 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Hardpan-----	7	27	
Pennsylvanian system:			
Lower series:			
Slate, gray-----	63	90	
Mississippian? system:			
Chester? series:			
Limestone-----	5	95	
Rock, loose, black-----	31	126	

Well 13/6W-14Q1			
Type of record: Driller's log.		Altitude: About 700 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Pennsylvanian system:			
Lower series:			
Sandstone, yellow-----	7	17	
Shale, sandy-----	100	117	
Shale, light-----	10	127	