

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-22A1			
Type of record: Driller's log.		Altitude: About 580 feet.	
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Softpan, yellow-----	10	28	
Softpan, dark-----	10	38	
Pennsylvanian system:			
Middle series:			
Slate, gray-----	8	46	
Slate, sandy, gray-----	12	58	
Shale, gray-----	10	68	
Shale, sandy, gray-----	10	78	
Shale, gray-----	10	88	
Shale, blue-----	3	91	
Slate, black-----	4	95	
Coal, trace-----	--	95	
Fire clay-----	3	98	
Shale, sandy, light-----	4	102	
Sandstone, pasty-----	24	126	
Sandstone, blue-----	6	132	W.B.
Coal-----	2	134	
Fire clay-----	3	137	
Shale, sandy, gray-----	15	152	
Sandstone, gray-----	21	173	W.B.
Shale, sandy, gray-----	5	178	

Well 11/ 8W-22D2			
Type of record: Driller's log.		Altitude: About 560 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Pennsylvanian system:			
Middle series:			
Sandstone-----	1	11	
Shale, gray-----	17	28	
Sandstone-----	7	35	
Shale, gray-----	15	50	
Sandstone-----	32	82	
Shale, dark-----	5	87	
Shale, gray-----	15	102	
Shale, dark-----	25	127	
Shale, gray-----	13	140	
Sandstone-----	8	148	W.B.
Shale, sandy-----	2	150	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-22N1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Muck, blue-----	4	20	
Pennsylvanian system:			
Middle series:			
Coal-----	2	22	
Fire clay-----	4	26	
Shale, light-----	32	58	
Sandstone-----	15	73	
Shale, brown-----	2	75	
Sandstone-----	52	127	
Shale, blue-----	18	145	
Coal-----	2	147	
Shale, sandy-----	15	162	
Coal-----	2	164	
Shale, sandy-----	21	185	
Sandstone-----	15	200	W.B.

Well 11/ 8W-23A2

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	21	21	
Sand and gravel-----	19	40	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	9	49	
Shale, gray-----	7	56	
Coal-----	.5	56.5	
Shale, gray-----	25	81.5	
Shale, dark-----	1.5	83	
Slate, black-----	4	87	
Coal-----	2	89	
Fire clay-----	7	96	
Sandstone-----	5.5	101.5	
Shale, blue-----	5	106.5	
Coal-----	3	109.5	
Fire clay-----	2.5	112	
Shale, sandy-----	29	141	
Sandstone, light-----	37	178	W.B.
Sandstone, dark-----	2	180	
Shale, blue-----	5	185	

Well 11/ 8W-23B1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Open well-----	27	27	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-23B1--Continued			
Material	Thick ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, light-----	28	55	
Shale, dark-----	11	66	
Sandstone-----	15	81	
Coal-----	2	83	
Shale, blue-----	3	86	
Sandstone-----	2	88	
Shale, blue-----	18	106	
Rock, black-----	2	108	
Slate, black-----	3	111	
Shale, light-----	21	132	
Sandstone-----	20	152	
Coal-----	3	155	
Sandstone-----	49	204	W. B.
Shale, blue-----	10	214	

Well 11/ 8W-24C1			
Type of record: Driller's log.		Altitude: About 615 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	23	23	
Pennsylvanian system:			
Middle series:			
Sandstone, yellow-----	15	38	
Shale, blue-----	2	40	
Sandstone, pasty, blue-----	30	70	W. B.
Shale, sandy, gray-----	20	90	

Well 11/ 8W-24R1			
Type of record: Driller's log.		Altitude: About 600 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Pan, sandy-----	29	45	
Pennsylvanian system:			
Middle series:			
Sandstone-----	13	58	
Slate, black-----	2	60	
Shale, sandy, gray-----	7	67	
Coal-----	.5	67.5	
Clay-----	2.5	70	
Shale, gray-----	15	85	
Sandstone-----	65	150	W. B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-25C1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Record missing-----	30	30	
Sand-----	15	45	
Mud-----	15	60	
Pennsylvanian system:			
Middle series:			
Sandstone, brown-----	21	81	W.B.
Shale, gray-----	28	109	
Shale, sandy, gray-----	--	109	

Well 11/ 8W-25H1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Pan-----	65	80	
Pennsylvanian system:			
Middle series:			
Coal-----	.5	80.5	
Clay-----	.5	81	
Shale, sandy, gray-----	34	115	
Shale, gray-----	7	122	
Sandstone-----	18.5	140.5	W.B.

Well 11/ 8W-26D1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Pennsylvanian system:			
Middle series:			
Shale, light-----	10	30	
Sandstone-----	5	35	
Coal-----	2	37	
Sandstone-----	123	160	W.B.

Well 11/ 8W-26R1

Type of record: Driller's log. Altitude: About 583 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Hardpan-----	26	42	
Pennsylvanian system:			
Middle series:			
Sandstone-----	5	47	

Table 3. Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-26R1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, blue-----	16	63	
Shale, sandy, blue-----	17	80	
Slate, black-----	5	85	
Coal-----	2	87	
Fire clay-----	1	88	
Rock-----	32	120	
Sandstone-----	43	163	W. B.

Well 11/ 8W-27A1			
Type of record: Driller's log.		Altitude: About 570 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Sand-----	1	19	
Pennsylvanian system:			
Middle series:			
Slate, black-----	5	24	
Coal-----	2	26	
Fire clay-----	1	27	
Shale, light-----	11	38	
Sandstone-----	3	41	
Shale, light-----	16	57	
Sandstone-----	29	86	"Oil"
Shale, soft-----	10	96	
Coal-----	4	100	
Shale, light-----	2	102	
Shale, sandy-----	23	125	
Shale, blue-----	2	127	
Slate, black-----	4	131	
Shale, light-----	19	150	

Well 11/ 8W-27B1			
Type of record: Driller's log.		Altitude: About 590 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface and hardpan-----	30	30	
Pennsylvanian system:			
Middle series:			
Slate and coal-----	5	35	
Sandstone-----	57	92	
Sandstone-----	4	96	Oil
Sandstone-----	6	102	W. B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-27H1

Type of record: Driller's log.

Altitude: About 570 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Pennsylvanian system:			
Middle series:			
Shale, light-----	16	36	
Rock, black-----	4	40	Limestone (?)
Slate, black-----	2	42	
Coal-----	4	46	
Fire clay-----	1	47	
Shale, light-----	11	58	

Well 11/ 8W-28L1

Type of record: Driller's log.

Altitude: About 590 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	23	23	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	7	30	
Shale, boots-----	43	73	
Slate, black-----	4	77	
Coal-----	.5	77.5	
Fire clay-----	10.5	88	
Shale, brown-----	3.5	91.5	
Limestone-----	1.5	93	
Shale, gray-----	23.5	116.5	
Coal-----	2.5	119	
Shale, sandy-----	8	127	
Sandstone-----	8	135	
Shale, dark-----	1.5	136.5	
Coal-----	1	137.5	
Shale, dark-----	2.5	140	
Sandstone-----	3	143	
Shale, sandy-----	4	147	
Shale, dark-----	13	160	
Slate, black-----	8	168	
Fire clay-----	4	172	
Sandstone-----	5	177	
Shale, dark-----	7	184	
Coal-----	2.5	186.5	
Fire clay-----	2.5	189	
Shale, dark-----	4	193	
Shale, gray-----	5.5	198.5	
Sandstone-----	40.5	239	W.B.
Shale-----	1	240	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-28P1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	21	21	
Pennsylvanian system:			
Middle series:			
Sandstone-----	5.5	26.5	
Fire clay-----	8.5	35	
Shale, gray-----	34	69	
Slate, blue-----	3	72	
Coal-----	1.5	73.5	
Fire clay-----	16.5	90	
Shale, gray-----	5	95	
Shale, sandy-----	10	105	
Sandstone-----	20	125	
Shale-----	2	127	
Coal-----	1.5	128.5	
Shale, gray-----	3.5	132	
Sandstone-----	8	140	
Shale, sandy-----	13	153	
Slate, black-----	4	157	
Coal-----	2	159	
Fire clay-----	4	163	
Sandstone-----	9	172	W. B.
Shale, dark-----	4	176	
Coal-----	2.5	178.5	
Shale, gray-----	5.5	184	
Sandstone-----	37	221	W. B.
Shale, gray-----	--	221	

Well 11/ 8W-28Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	40	40	
Pennsylvanian system:			
Middle series:			
Fire clay-----	3	43	
Shale, gray-----	22	65	
Slate, black-----	5	70	
Fire clay-----	2	72	
Shale, gray-----	53	125	
Sandstone-----	5	130	
Shale, sandy, gray-----	38	168	
Coal-----	1	169	
Shale, gray-----	16	185	
Sandstone, white-----	25	210	W. B.
Slate-----	--	210	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-30F1

Type of record: Driller's log.

Altitude: About 555 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan and sand-----	39	49	
Pennsylvanian system:			
Middle series:			
Shale, sandy, gray-----	21	70	W.B.

Well 11/ 8W-30R1

Type of record: Driller's log.

Altitude: About 565 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	30	30	
Gravel-----	5	35	
Hardpan-----	25	60	
Sand and hardpan-----	40	100	
Pennsylvanian system:			
Middle series:			
Shale, black-----	2	102	
Shale-----	8	110	
Limestone-----	5	115	
Shale-----	30	145	
Sandstone-----	35	180	W.B.

Well 11/ 8W-31F1

Type of record: Driller's log.

Altitude: About 550 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	19	19	
Shale, gravelly-----	13	32	Gravelly clay (?)
Sand and gravel-----	2	34	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	3	37	
Mud, blue-----	11	48	
Shale, gray-----	40	88	
Slate, black-----	2.5	90.5	
Coal-----	.5	91	
Fire clay-----	6	97	
Sandstone-----	16	113	
Shale, sandy-----	5	118	
Shale, gray-----	4	122	
Sandstone-----	13	135	
Shale, sandy-----	9	144	
Sandstone-----	4	148	
Shale, sandy-----	19	167	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-31F1--Continued:			
Material	Thick-ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Sandstone-----	27	94	
Slate, black-----	2	196	
Fire clay-----	1.5	197.5	
Limestone-----	.5	198	
Well 11/ 8W-31Q1			
Type of record: Driller's log.		Altitude: About 565 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Softpan, yellow-----	5	20	
Hardpan, gray-----	10	30	
Softpan-----	8	38	
Clay-----	3	41	
Pennsylvanian system:			
Middle series:			
Limestone-----	1	42	
Slate, black-----	2	44	
Coal-----	2	46	
Fire clay-----	4	50	
Sandstone, pasty-----	4	54	
Shale, light-blue-----	16	70	
Shale, blue-----	10	80	
Well 11/ 8W-31R1			
Type of record: Driller's log.		Altitude: About 570 feet.	
Quaternary system:			
Recent and Pleistocene (?) series:			
Surface-----	12	12	
Shale, sandy-----	11	23	Sandy clay (?)
Shale, gravelly-----	17	40	Gravelly clay (?)
Pennsylvanian system:			
Middle series:			
Shale, gray-----	61	101	
Slate, black-----	2	103	
Coal-----	2	105	
Fire clay-----	10	115	
Sandstone-----	5	120	
Shale-----	7	127	
Sandstone-----	10	137	W.B.
Shale, sandy, gray-----	7	144	
Sandstone, gray-----	5	149	
Shale and coal-----	4	153	
Sandstone, white-----	32	185	W.B.
Slate, black-----	--	185	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-31R2

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	13	13	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	6	19	
Shale, gray-----	8	27	
Shale, soft-----	7	34	
Shale, dark-----	2.5	36.5	
Slate-----	1	37.5	
Coal-----	1.5	39	
Shale, gray-----	21	60	
Shale, blue-----	24	84	
Shale, gray-----	11	95	
Shale, blue-----	2	97	
Slate, black-----	3	100	
Coal-----	2	102	
Fire clay-----	9	111	
Shale, gray-----	4	115	
Sandstone, gray-----	2	117	
Shale, gray-----	18	135	
Shale, sandy, blue-----	3	138	
Shale, gray-----	8	146	
Shale, dark-----	13	159	W.B.
Sandstone, gray-----	21	180	W.B.
Shale, blue-----	2.5	182.5	
Sandstone, blue-----	2.5	185	
Shale, sandy, gray-----	8	193	
Sandstone, gray-----	6.5	199.5	
Gravel and shale-----	8.5	208	Concretions (?)
Shale, boots, blue-----	7	215	

Well 11/ 8W-32B1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	21	21	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	6	27	
Slate, black-----	1	28	
Coal-----	2.5	30.5	
Fire clay-----	1.5	32	
Limestone-----	3	35	
Shale, gray-----	12	47	
Limestone-----	3	50	
Slate, black-----	3	53	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-32B1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	2	55	
Fire clay-----	2	57	
Shale, white-----	6	63	
Sandstone-----	2	65	
Shale, gray-----	44	109	
Slate, black-----	5	114	
Fire clay-----	10	124	
Sandstone-----	3	127	
Shale, sandy-----	18	145	
Sandstone-----	7	152	
Shale, dark-gray-----	12	164	
Slate, black-----	2	166	
Shale, dark-gray-----	8	174	
Sandstone-----	5	179	
Shale, sandy-----	16	195	
Slate, dark-----	6	201	
Fire clay-----	8	209	
Shale, gray-----	9	218	
Shale, sandy-----	4	222	
Sandstone-----	49	271	W.B.

Well 11/ 8W-32F1			
Type of record: Driller's log.		Altitude: About 580 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Shale, sandy, and gravel-----	29	44	Sandy clay (?)
Pennsylvanian system:			
Middle series:			
Shale-----	9	53	
Sandstone-----	3	56	
Shale-----	48	104	
Slate, black-----	4	108	
Coal-----	2	110	
Fire clay-----	7	117	
Shale-----	10	127	
Sandstone-----	42	169	
Shale-----	3	172	
Sandstone-----	38	210	W.B.

Well 11/ 8W-32H1			
Type of record: Driller's log.		Altitude: About 610 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	30	30	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-32H1--Continued			
Material	Thick ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	51	81	
Slate-----	4	85	
Coal-----	1.5	86.5	
Fire clay-----	3.5	90	
Shale, gray-----	9.5	99.5	
Sandstone-----	30.5	130	W.B.
Shale, blue-----	5	135	
Sandstone-----	46	181	W.B.
Shale, dark-----	4	185	

Well 11/ 8W-32N1			
Type of record: Driller's log.		Altitude: About 570 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	21	21	
Shale, gray-----	17	38	Clay (?)
Gravel-----	2	40	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	4	44	
Coal and slate-----	2	46	
Fire clay-----	4	50	
Shale, gray-----	45	95	
Slate, black-----	4	99	
Fire clay-----	10	109	
Sandstone-----	69	178	W.B.

Well 11/ 8W-33F1			
Type of record: Driller's log.		Altitude: About 610 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	28	28	
Pennsylvanian system:			
Middle series:			
Coal-----	2	30	
Sandstone-----	2	32	
Shale, gray-----	49	81	
Coal-----	2.5	83.5	
Fire clay and shale-----	11.5	95	
Sandstone-----	10	105	
Shale, gray-----	27	132	
Sandstone-----	38	170	
Shale, sandy, dark-----	18	188	
Sandstone, white-----	12	200	W.B.
Shale, gray-----	2	202	
Coal-----	1	203	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-33J1

Type of record: Sample study by Kellar Development Company. Altitude: About 575 ft.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Sample missing-----	72	72	
Pennsylvanian system:			
Middle series:			
Shale, hard, black, trace of sand-----	10	82	
Shale, soft, gray-----	18	100	
Shale, muddy-----	15	115	
Sandstone, coarse, soft, gray---	12	127	
Shale, muddy, gray-----	6	133	
Shale, hard, black-----	6	139	
Shale, muddy, gray-----	5	144	
Coal and some black shale-----	11	155	
Coal and some gray shale-----	5	160	
Shale, muddy, gray-----	5	165	
Sandstone, fine micaceous, shaly, gray-----	12	177	
Sandstone, fine, micaceous, gray-----	5	182	
Sandstone, fine, micaceous, white-----	49	231	
Coal and gray and black shale---	29	260	
Sandstone, coarse, micaceous, gray-----	6	266	
Lower series:			
Shale, muddy, gray-----	6	272	
Limestone, coarsely crystalline, sandy, gray-----	5	277	
Shale, muddy, gray-----	5	282	
Coal-----	10	292	
Sandstone, fine, subrounded, soft, white; trace of coal----	6	298	
Sandstone, fine, subrounded, soft, white-----	26	324	
Coal-----	5	329	
Sandstone, fine, angular, soft, gray-----	10	339	
Shale, gray-----	5	344	
Coal, some black shale-----	22	366	
Sandstone, fine, subrounded, soft, gray-----	10	376	
Sandstone, fine, subrounded, soft, white-----	29	405	T.D. 1,900 ft

Well 11/ 8W-34C1

Type of record: Driller's log.

Altitude: About 585 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	17	17	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-34C1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Slate-----	3	20	
Coal-----	5	25	
Shale, gray-----	55	80	
Shale, sandy, dark-----	45	125	
Sandstone-----	20	145	
Coal-----	2	147	
Shale, dark-----	7	154	
Shale, sandy-----	5	159	
Coal-----	1	160	
Shale, dark-----	4	164	
Sandstone-----	5	169	
Shale, dark-----	10	179	
Shale, light-----	12	191	
Sandstone-----	44	235	W.B.

Well 11/ 8W-34D1			
Type of record: Driller's log.	Altitude: About 590 feet.		
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Pennsylvanian system:			
Middle series:			
Sandstone-----	5	23	
Shale-----	7	30	
Coal-----	2	32	
Fire clay-----	2	34	
Shale, gray-----	6	40	
Shale, dark-----	7	47	
Limestone-----	4	51	
Slate, black-----	4	55	
Shale, gray-----	25	80	
Shale, black-----	27	107	
Shale, gray-----	18	125	
Sandstone-----	10	135	
Slate, black-----	4	139	
Coal-----	1	140	
Fire clay-----	2	142	
Sandstone-----	2	144	
Shale, gray-----	29	173	
Sandstone-----	52	225	W.B.

Well 11/ 8W-34M1			
Type of record: Driller's log.	Altitude: About 570 feet.		
Quaternary system:			
Recent and Pleistocene series:			
Soil and surface-----	35	35	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-34M1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	32	67	
Slate, black-----	3.5	70.5	
Coal-----	1.5	72	
Fire clay-----	3	75	
Shale, dark-----	60.5	135.5	
Sandstone-----	25	160.5	
Shale, dark-----	3.5	164	
Sandstone, white-----	46	210	W.B.
Shale, dark-----	7	217	

Well 11/ 8W-35Q1			
Type of record: Driller's log.		Altitude:	About 550 feet.
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	23	23	
Sand-----	10	33	
Hardpan-----	13	46	
Drift-----	4	50	
Pennsylvanian system:			
Middle series:			
Sandstone-----	50	100	
Shale, blue-----	17	117	
Sandstone-----	21	138	
Shale, blue-----	2	140	
Sandstone-----	28	168	W.B.
Coal-----	2	170	

Well 11/ 8W-35R1			
Type of record: Driller's log.		Altitude:	About 560 feet.
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Shale, sandy, yellow-----	5	23	
Shale, gravelly, blue-----	33	56	
Rock-----	3	59	Boulder (?)
Pennsylvanian system:			
Middle series:			
Shale-----	1.5	60.5	
Sandstone-----	14.5	75	W.B.
Shale, gray, and dark shale-----	55	130	
Slate, black-----	13	143	
Shale-----	22	165	
Sandstone-----	10	175	
Shale-----	1	176	
Slate, black-----	3.5	179.5	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 8W-35R1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	1	180.5	
Fire clay-----	2.5	183	
Sandstone-----	5	188	
Coal-----	3	191	
Fire clay-----	14	205	
Shale-----	35	240	

Well 11/ 9W- 1A1

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

Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	23	23	
Hardpan-----	28	51	
Sand-----	2	53	
Hardpan-----	28	81	
Sand and gravel-----	35	116	W.B.
Sand-----	6	122	W.B.
Hardpan-----	--	122	

Well 11/ 9W- 1A3

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, red-----	8	8	
Sand, soft, and mud-----	15	23	
Hardpan, gray-----	16	39	
Mud and soft sand-----	4	43	
Hardpan and gravel-----	38	81	
Sand and gravel-----	3	84	W.B.

Well 11/ 9W- 1C1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Drift-----	8	28	
Hardpan-----	10	38	
Sand and gravel-----	4	42	
Hardpan-----	58	100	
Gravel-----	5	105	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W- 1K1			
Type of record: Driller's log.		Altitude: About 550 feet.	
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil and sand-----	15	15	
Mud, soft, yellow-----	8	23	
Sand-----	4	27	
Hardpan, sandy, gray-----	43	70	
Mud, glacial-----	3	73	
Sand and coarse gravel-----	7	80	W.B.
Well 11/ 9W- 1L2			
Type of record: Driller's log.		Altitude: About 550 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	18	18	
Hardpan-----	4	22	
Quicksand-----	2	24	
Hardpan-----	53	77	
Sand and gravel-----	8	85	W.B.
Well 11/ 9W- 1R1			
Type of record: Driller's log.		Altitude: About 545 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	5	5	
Sand, red-----	32	37	
Gravel and sand-----	3	40	W.B.
Hardpan-----	5	45	
Well 11/ 9W- 2G1			
Type of record: Driller's log.		Altitude: About 500 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Sand and gravel, dirty-----	12	27	
Pennsylvanian system:			
Middle series:			
Slate, soft, gray-----	6	33	
Slate, gray-----	4	37	
Coal-----	1	38	
Fire clay-----	2	40	
Limestone-----	5	45	
Slate, gray-----	3	48	
Slate, black-----	7	55	
Coal-----	6	61	
Fire clay-----	.5	61.5	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W- 2H1

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

Material	Thick ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	5	5	
Sand-----	10	15	
Hardpan soft-----	15	30	
Hardpan-----	84	114	
Sand, fine-----	1	115	
Pennsylvanian system:			
Middle series:			
Slate, black-----	6	121	

Well 11/ 9W- 2H3

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan-----	41	51	
Sand-----	17	68	"Dry"
Hardpan-----	5	73	
Sand and gravel-----	7	80	W.B.

Well 11/ 9W- 2H4

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

Quaternary system:			
Recent and Pleistocene series:			
Drift-----	18	18	
Gravel-----	2	20	
Pennsylvanian system:			
Middle series:			
Shale-----	10	30	
Sandstone-----	5	35	
Sandstone, broken-----	30	65	
Shale-----	61	126	
Coal-----	3	129	
Sandstone, broken-----	11	140	
Slate-----	2	142	
Shale, gray-----	8	150	
Slate-----	2	152	
Shale, gray-----	66	218	
Shale, sandy-----	93	311	
Sandstone, broken-----	49	360	T.D. 1,156 ft

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W- 2J1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil and soft clay-----	6	6	
Mud, sandy, yellow-----	14	20	W.B.
Hardpan, solid, gray-----	4	24	
Sand and soft mud-----	2	26	W.B.
Hardpan, solid, gray-----	14	40	
Sand and soft mud-----	1	41	W.B.
Hardpan, solid, gray-----	24	65	
Hardpan, sandy, soft, gray-----	18	83	
Hardpan, silty, gray-----	3	86	
Pennsylvanian system:			
Middle series:			
Shale-----	4	90	
Shale, light-----	2	92	

Well 11/ 9W- 2K1

Type of record: Driller's log. Altitude: About 500 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	6	6	
Sand, dirty-----	14	20	
Softpan, yellow-----	10	30	
Hardpan, gray-----	8	38	
Sand and gravel-----	2	40	W.B.
Hardpan-----	1	41	
Sand and gravel-----	11	52	W.B.
Hardpan, gray-----	6	58	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	2	60	
Limestone-----	5	65	
Slate, black-----	8	73	

Well 11/ 9W- 2P1

Type of record: Driller's log. Altitude: About 500 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	23	23	
Hardpan-----	37	60	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	36	96	
Coal-----	1	97	
Shale, gray-----	5	102	
Rock-----	3	105	Limestone (?)
Shale, light-----	10	115	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W- 2P1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Slate, black-----	11	126	
Coal-----	6	132	
Fire clay-----	1	133	

Well 11/ 9W- 2R1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	6	6	
Sand, dirty-----	10	16	
Wash, gray-----	10	26	
Softpan, gray-----	14	40	
Hardpan, gray-----	17	57	
Sand and gravel-----	4	61	
Softpan, gray-----	43	104	
Sand and gravel-----	6	110	
Hardpan-----	1	111	
Pennsylvanian system:			
Middle series:			
Slate, light-blue-----	5	116	
Slate, gray-----	2	118	
Limestone-----	4	122	
Slate, black-----	8	130	
Mine opening-----	--	130	

Well 11/ 9W- 3E2

Type of record: Driller's log. Altitude: About 490 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	12	12	
Gravel-----	23	35	W.B. 20 to 72 ft
Sand, fine-----	5	40	
Sand, coarse-----	10	50	
Gravel, coarse-----	5	55	
Sand and gravel-----	10	65	
Gravel, coarse-----	2	67	
Sand and gravel-----	5	72	

Well 11/ 9W- 3H1

Type of record: Driller's log. Altitude: About 500 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	4	4	
Sand and gravel-----	43	47	
Gravel-----	11	58	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W- 5L1

Type of record: Driller's log. Altitude: About 500 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	48	48	
Sand, fine-----	13	61	W.B.
Gravel, coarse-----	9	70	W.B.
Sand, coarse-----	12	82	W.B.
Gravel, coarse, and some sand----	9	91	W.B.
Sand, coarse-----	12	103	W.B.
Pennsylvanian system:			
Middle series:			
Shale, dark-----	27	130	
Sandstone and limestone-----	20	150	W.B.
Shale, dark-----	5	155	

Well 11/ 9W- 7C3

Type of record: Driller's log. Altitude: About 485 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, gritty-----	4	4	
Sand, fine-----	1	5	
Gravel, muddy-----	3	8	
Sand and gravel, medium-----	13	21	
Sand, medium-----	17	38	
Sand and gravel, medium-----	66	104	W.B.
Sand and gravel, coarse-----	16	120	W.B.
Sand and gravel, medium-----	8	128	W.B.
Sand, medium, and boulders-----	3.5	131.5	W.B.

Well 11/ 9W- 7J1

Type of record: Driller's log. Altitude: About 485 feet.

Quaternary system:			
Recent and Pleistocene series:			
Gravel, coarse, dirty-----	22	22	
Gravel-----	34	56	W.B.
Sand-----	--	56	

Well 11/ 9W- 7R1

Type of record: Driller's log. Altitude: About 480 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	4	4	
Sand-----	18	22	
Sand and gravel-----	36	58	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W- 8N1

Type of record: Driller's log. Altitude: About 480 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil and dirt, muddy-----	24	24	W.B. 19 to 95 ft
Sand, coarse, muddy-----	6	30	
Gravel, medium, muddy-----	18	48	
Gravel, fine, clean-----	10	58	
Sand, coarse, clean-----	9	67	
Gravel, fine, and coarse, clean sand-----	20	87	
Gravel, coarse, clean-----	8	95	
Pennsylvanian system:			
Middle series:			
Shale-----	1	96	

Well 11/ 9W- 9G2

Type of record: Driller's log. Altitude: About 489 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	4	4	
Gravel and limestone-----	62	66	
Pennsylvanian system:			
Middle series:			
Coal-----	2	68	
Shale, gray-----	3	71	
Sandstone-----	7	78	
Limestone-----	4	82	
Shale, light-----	9	91	
Sandstone-----	4	95	
Shale, sandy-----	4	99	
Shale, gray-----	41	140	
Shale, black-----	6	146	
Shale, gray-----	5	151	
Shale, sandy-----	9	160	
Coal-----	2	162	
Shale-----	75	237	
Sandstone-----	33	270	T.D. 1,699 ft

Well 11/ 9W-10A1

Type of record: Driller's log. Altitude: About 500 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand-----	16	16	
Sand and gravel-----	30	46	
Pennsylvanian system:			
Middle series:			
Shale, light-----	2	48	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-10A1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Rock, hard, light-----	6	54	
Limestone-----	3	57	
Slate, blue-----	7	64	
Slate, black-----	4	68	
Mine opening-----	5	73	
Well 11/ 9W-10F1			
Type of record: Driller's log.		Altitude: About 495 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Hardpan-----	18	18	
Sand, fine-----	12	30	W.B.
Sand-----	12	42	W.B.
Gravel, coarse-----	6	48	W.B.
Well 11/ 9W-10G3			
Type of record: Driller's log.		Altitude: About 500 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Old pit-----	35	35	
Sand and gravel-----	5	40	
Sand, fine-----	6	46	W.B.
Sand, coarse, and gravel-----	8	54	W.B.
Well 11/ 9W-10K1			
Type of record: Driller's log.		Altitude: About 495 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Gravel and sand-----	31	31	
Hardpan and glacial mud-----	23	54	
Sand-----	4	58	W.B.
Sand and gravel-----	1	59	W.B.
Well 11/ 9W-10P1			
Type of record: Driller's log.		Altitude: About 500 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	8	8	
Sand and gravel-----	32	40	W.B.
Pennsylvanian system:			
Middle series:			
Fire clay, dirty, white-----	40	80	

Table 3.--Selected well logs; Vigo County, Indiana--Continued

Well 11/ 9W-10Q1

Type of record: Driller's log. Altitude: About 495 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand-----	18	18	
Gravel-----	12	30	
Sand-----	28	58	
Pennsylvanian system:			
Middle series:			
Shale, dark-gray-----	15	73	
Limestone, sandy-----	17	90	
Shale, muddy, dark-----	70	160	
Sandstone-----	5	165	
Shale-----	49	214	
Sandstone-----	34	248	W.B.; T.D. 1,833 ft

Well 11/ 9W-11C1

Type of record: Driller's log. Altitude: About 540 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan, gray-----	21	31	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	44	75	
Slate, dark-----	7	82	
Coal-----	2	84	
Fire clay-----	2	86	
Sandstone, pasty-----	10	96	
Limestone-----	3	99	
Slate, black-----	7	106	
Mine opening-----	--	106	

Well 11/ 9W-11G1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	32	32	
Hardpan-----	20	52	
Gravel-----	1	53	W.B.
Pennsylvanian system:			
Middle series:			
Shale-----	68	121	
Limestone-----	6	127	
Fire clay-----	16	143	
Shale-----	37	180	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-11K2

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, white-----	25	25	
Clay and hardpan-----	25	50	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	18	68	
Shale, dark-----	22	90	
Coal-----	3	93	
Limestone, hard-----	2	95	W. B.
Shale, gray-----	9	104	
Limestone, hard-----	7	111	
Slate, black-----	7	118	
Shale, sandy-----	9	127	
Limestone, hard-----	2	129	
Shale, sandy-----	18	147	
Slate, dark-----	4	151	
Coal-----	2	153	
Shale, sandy-----	25	178	
Slate, black-----	10	188	
Coal-----	4	192	
Limestone, hard-----	2	194	
Shale, gray-----	4	198	
Shale, sandy-----	20	218	
Slate, black-----	10	228	
Limestone, hard-----	2	230	
Coal-----	1	231	
Fire clay-----	3	234	
Sandstone-----	4	238	
Shale, sandy-----	12	250	
Sandstone-----	54	304	W. B.

Well 11/ 9W-11K3

Type of record: Driller's log. Altitude: About 540 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and sand-----	12	12	
Mud, dark-----	13	25	
Pennsylvanian system:			
Middle series:			
Shale, soft, light-----	35	60	
Shale, dark, and coal-----	5	65	
Limestone, hard-----	5	70	
Sandstone-----	8	78	W. B.
Shale, soft-----	3	81	
Shale, sandy-----	13	94	
Limestone, hard-----	3	97	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-11K3--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Slate, dark-----	5	102	
Coal-----	3	105	
Shale, gray-----	13	118	
Shale, dark-----	39	157	
Limestone, hard-----	4	161	
Coal-----	3	164	
Shale, dark-----	5	169	
Limestone, hard-----	2	171	
Shale, sandy-----	27	198	
Coal-----	2	200	
Sandstone-----	75	275	W.B.

Well 11/ 9W-12C1

Type of record: Driller's log. Altitude: About 540 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Sand and hardpan-----	42	60	
Gravel-----	4	64	
Hardpan-----	18	82	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	28	110	
Slate, black-----	10	120	
Mine opening-----	6	126	
Fire clay-----	4	130	
Shale, blue-----	6	136	
Shale, light-----	28	164	
Slate, black-----	3	167	
Coal-----	4	171	

Well 11/ 9W-12M1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	30	30	
Hardpan-----	20	50	
Pennsylvanian system:			
Middle series:			
Shale, white-----	55	105	
Shale, dark-----	4	109	
Coal-----	1	110	
Fire clay-----	2	112	
Sandstone-----	2	114	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-13B1

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

Material	Thick ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	14	14	
Sand and gravel-----	18	32	"Dry"
Pennsylvanian system:			
Middle series:			
Shale, gray-----	41	73	
Shale, black-----	6	79	
Shale, gray-----	3	82	
Sandstone-----	3	85	
Shale, gray-----	35	120	
Shale, dark-----	36	156	
Coal-----	4	160	
Shale, sandy-----	5	165	
Soapstone and shale-----	5	170	
Fire clay-----	4	174	
Shale, sandy, dark-----	11	185	
Shale, dark-----	12	197	
Coal-----	5	202	
Shale, gray-----	9	211	
Shale, dark-----	10	221	
Sandstone-----	59	280	W.B.

Well 11/ 9W-13B2

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Softpan, yellow-----	10	28	
Sand and small gravel-----	1	29	W.B.
Hardpan, gray-----	7	36	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	13	49	

Well 11/ 9W-13C1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	14	14	
Mud, white-----	17	31	
Pennsylvanian system:			
Middle series:			
Slate, black-----	3	34	
Shale-----	7	41	
Slate, gray-----	5	46	
Limestone-----	5	51	
Shale, black-----	2	53	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-13C1--Continued			
Material	Thick-ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	5	58	W.B.
Fire clay-----	3	61	
Shale, sandy-----	5	66	
Sandstone-----	10	76	
Slate-----	18	94	
Shale, dark-gray-----	35	129	
Slate, black-----	5	134	
Coal-----	4	138	
Fire clay-----	3	141	
Shale, sandy, dark-----	26	167	
Slate, black-----	9	176	
Limestone-----	7	183	
Slate-----	3	186	
Sandstone-----	5	191	
Slate-----	3	194	
Sandstone-----	22	216	
Sandstone-----	35	251	W.B.; "Gas"
Slate, dark-----	42	293	
Shale, dark-----	27	320	
Slate, dark-----	14	334	
Shale, sandy-----	78	412	
Lower (?) series:			
Limestone, sandy, hard-----	8	420	"Salt water"
Sandstone-----	20	440	

Well 11/ 9W-13D1

Type of record: Driller's log. Altitude: About 540 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	24	24	W.B.
Hardpan, sandy-----	12	36	
Sand-----	6	42	
Hardpan-----	48	90	
Pennsylvanian system:			
Middle series:			
Shale-----	--	90	

Well 11/ 9W-16E1

Type of record: Driller's log. Altitude: About 490 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	10	10	W.B. 29 to 87 ft
Gravel and sand, muddy-----	10	20	
Sand, sharp, and medium gravel---	40	60	
Sand sharp-----	15	75	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-16E1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Gravel, medium-----	11	86	
Gravel, muddy-----	1	87	
Pennsylvanian system:			
Middle series:			
Shale-----	1	88	

Well 11/ 9W-16M1			
Type of record: Driller's log.		Altitude: About 490 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	5	5	
Clay, gravelly-----	20	25	
Gravel, medium to coarse-----	45	70	W.B. 34 to 93 ft
Sand, sharp-----	17	87	
Coal-----	.5	87.5	
Gravel, medium to coarse-----	5.5	93	
Pennsylvanian system:			
Middle series:			
Shale-----	.5	93.5	

Well 11/ 9W-17A1			
Type of record: Driller's log.		Altitude: About 480 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	8	8	
Sand and gravel, dirty-----	20	28	W.B. 18 to 84 ft
Gravel, dirty-----	12	40	
Sand and gravel-----	16	56	
Sand, medium-----	7	63	
Sand, clean, medium-gray-----	18	81	
Sand and gravel-----	3	84	
Pennsylvanian system:			
Middle series:			
Shale-----	2	86	

Well 11/ 9W-17A3			
Type of record: Driller's log.		Altitude: About 490 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	15	15	
Sand and gravel, muddy-----	15	30	
Sand, fine, yellow-----	2	32	
Sand and coarse gravel, gray-----	13	45	W.B.
Sand and coarse gravel, yellow---	2	47	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-17A3--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, coarse, gray-----	3	50	W.B.
Sand and coarse gravel, gray-----	1	51	W.B.
Well 11/ 9W-17B1			
Type of record: Driller's log.		Altitude: About 480 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	15	15	
Gravel, medium-----	15	30	W.B. 19 to 84 ft
Sand, coarse, and gravel-----	15	45	
Sand, coarse-----	18	63	
Sand, coarse, clean-----	18	81	
Sand, coarse, and gravel, clean---	3	84	
Pennsylvanian system:			
Middle series:			
Shale-----	2	86	
Well 11/ 9W-17E2			
Type of record: Driller's log.		Altitude: About 480 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Top soil, slightly muddy-----	15	15	
Gravel, medium, slightly muddy----	30	45	W.B. 22 to 79 ft
Gravel, fine, slightly muddy-----	13	58	
Sand, coarse, slightly muddy-----	8	66	
Sand, coarse, and gravel-----	13	79	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	1	80	
Well 11/ 9W-17H1			
Type of record: Driller's log.		Altitude: About 480 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Top soil and clay-----	15	15	
Gravel, medium, clean-----	35	50	W.B. 22 to 87 ft
Gravel, medium-----	13	63	
Gravel, fine-----	5	68	
Gravel, medium-----	5	73	
Gravel, fine, and sand; clean, gray-----	14	87	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	2	89	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-17H3

Type of record: Driller's log. Altitude: About 490 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	15	15	
Gravel, fine, clean-----	60	75	W.B. 23 to 87 ft
Gravel, fine, and medium sand; clean-----	12	87	
Pennsylvanian system:			
Middle series:			
Shale-----	2	89	

Well 11/ 9W-17Q2

Type of record: Driller's log. Altitude: About 480 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	2	2	
Clay, gravelly-----	4	6	
Sand and gravel, medium-----	42	48	W.B. 22 to 75 ft
Gravel, medium-----	10	58	
Gravel, coarse-----	4	62	
Gravel, medium, clean-----	10	72	
Sand, coarse, clean-----	3	75	
Pennsylvanian system:			
Middle series:			
Shale-----	5	80	

Well 11/ 9W-18H1

Type of record: Driller's log. Altitude: About 470 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil and clay-----	10	10	
Sand and gravel-----	18	28	W.B. 14 to 79 ft
Sand, coarse, clean-----	10	38	
Sand, fine, clean-----	3	41	
Sand and gravel, clean-----	9	50	
Sand, fine, clean-----	10	60	
Sand, coarse, and medium gravel; clean-----	14	74	
Sand and coarse gravel, muddy----	5	79	
Shale, blue-----	1	80	

Well 11/ 9W-20R1

Type of record: Driller's log. Altitude: About 490 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	1	1	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-20R1--Continued

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, sandy-----	9	10	
Clay, gravelly-----	8	18	
Sand and gravel, medium, clean---	2	20	W.B.
Pennsylvanian system:			
Middle series:			
Shale, blue-----	2	22	

Well 11/ 9W-21C1

Type of record: Driller's log. Altitude: About 495 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand-----	30	30	
Pennsylvanian system:			
Middle series:			
Shale, light-----	35	65	
Shale, blue-----	47	112	
Coal-----	3	115	
Shale, light-----	10	125	
Limestone-----	9	134	
Slate-----	4	138	
Coal-----	2	140	
Fire clay-----	1	141	
Limestone-----	7	148	
Shale, light-----	27	175	

Well 11/ 9W-22R2

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	15	15	
Hardpan-----	15	30	
Mud, yellow-----	10	40	
Pennsylvanian system:			
Middle series:			
Shale, light-----	15	55	
Sandstone, white-----	13	68	W.B.
Shale, dark-----	79	147	
Coal-----	3	150	
Limestone, hard-----	5	155	
Shale, dark-----	5	160	
Sandstone, dark-----	20	180	W. B.
Limestone, sandy-----	11	191	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-23N1

Type of record: Driller's log. Altitude: About 557 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	20	20	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	117	137	
Coal-----	3	140	
Limestone, gray-----	2	142	
Shale, gray-----	11	153	
Limestone, dark-----	6	159	
Slate-----	9	168	
Shale, gray-----	18	186	
Shale, dark-----	43	229	
Shale, gray-----	40	269	
Coal-----	1	270	
Shale, sandy, gray-----	11	281	
Shale, dark-----	17	298	
Slate, black-----	1	299	
Limestone-----	1	300	
Shale, gray-----	17	317	
Coal-----	1	318	
Shale, sandy, gray-----	26	344	
Sandstone, broken-----	25	369	
Sandstone-----	35	404	T.D. 2,116 ft

Well 11/ 9W-24L1

Type of record: Driller's log. Altitude: About 540 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Pan-----	37	52	
Pennsylvanian system:			
Middle series:			
Shale, light-gray-----	20.5	72.5	
Coal-----	.5	73	
Shale, light-gray-----	7	80	
Shale, gray-----	10	90	
Shale, sandy, gray-----	5	95	
Shale, dark-gray-----	2	97	
Coal-----	1	98	
Clay-----	7	105	
Sandstone-----	8	113	
Shale, sandy, gray-----	47	160	
Coal-----	4	164	
Clay-----	3	167	
Shale, sandy, gray-----	8	175	
Sandstone-----	18	193	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-24L1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy, gray-----	35	228	
Slate, black-----	9.5	237.5	
Coal-----	1.5	239	
Clay-----	2	241	
Sandstone-----	50	291	W.B.

Well 11/ 9W-25E1			
Type of record: Driller's log.		Altitude: About 530 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Softpan-----	12	12	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	59	71	
Slate, dark-----	3	74	
Limestone-----	3	77	
Slate, sandy, gray-----	12	89	
Limestone-----	6	95	
Coal-----	4	99	
Clay, hard-----	2	101	
Shale, sandy, blue-----	6	107	

Well 11/ 9W-25F1			
Type of record: Driller's log.		Altitude: About 550 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	16	16	
Hardpan-----	20	36	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	53	89	
Coal-----	1	90	
Sandstone-----	5	95	W.B.
Slate, dark-----	7	102	
Coal and sandstone-----	2	104	W.B.
Limestone, hard-----	3	107	
Coal-----	3	110	
Sandstone, dark-----	15	125	W.B.
Shale, dark-----	25	150	

Well 11/ 9W-25K1			
Type of record: Driller's log.		Altitude: About 550 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	44	44	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-25K1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, dark-----	14	58	
Coal-----	1	59	
Fire clay-----	3	62	
Sandstone-----	15	77	W.B.
Limestone, hard-----	1	78	
Slate, blue-----	2	80	
Coal-----	3	83	
Fire clay-----	3	86	
Limestone, sandy-----	6	92	
Shale, sandy-----	8	100	
Shale, dark-----	26	126	
Sandstone-----	6	132	W.B.
Coal-----	3	135	
Fire clay-----	2	137	
Limestone, hard-----	2	139	
Shale, sandy-----	21	160	
Shale, dark-----	8	168	
Sandstone, white-----	22	190	W.B.

Well 11/ 9W-25M1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	20	20	
Hardpan-----	17	37	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	43	80	
Coal-----	1	81	W.B.
Shale, gray-----	5	86	
Limestone, hard-----	3	89	
Shale, gray-----	7	96	
Sandstone-----	12	108	W.B.
Slate, dark-----	1	109	

Well 11/ 9W-25Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	22	22	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	23	45	
Coal-----	1	46	
Fire clay-----	2	48	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-25Q1--Continued

Material	Thick-ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	23	71	
Sandstone-----	7	78	
Slate-----	1	79	
Coal-----	4	83	
Fire clay-----	2	85	
Shale, gray-----	54	139	
Coal-----	2.5	141.5	
Fire clay-----	2	143.5	
Shale, gray-----	30	173.5	
Sandstone-----	32	205.5	
Shale-----	2	207.5	
Shale, sandy-----	18	225.5	
Sandstone-----	8	233.5	

Well 11/ 9W-26B1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	42	42	
Pennsylvanian system:			
Middle series:			
Shale, light-----	38	80	W.B.
Shale, dark-----	20	100	
Coal-----	2	102	
Fire clay-----	5	107	
Limestone, hard-----	4	111	
Fire clay-----	3	114	
Shale, sandy-----	7	121	
Slate, black-----	4	125	
Coal-----	3	128	
Fire clay-----	3	131	
Limestone, sandy-----	3	134	W.B.
Limestone, hard-----	2	136	
Shale, light-----	7	143	
Shale, dark-----	46	189	
Slate, black-----	4	193	
Fire clay-----	3	196	
Shale, light-----	13	209	

Well 11/ 9W-26C1

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

Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	15	15	
Sand-----	10	25	
Hardpan-----	23	48	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-26C1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Sandstone, gray-----	17	65	
Shale, dark-----	55	120	
Shale, gray-----	21	141	
Coal-----	2	143	
Shale-----	2	145	
Limestone-----	4	149	
Shale-----	4	153	
Sandstone-----	9	162	
Coal-----	4	166	
Shale, sandy-----	14	180	
Shale-----	12	192	

Well 11/ 9W-26G1			
Type of record: Driller's log.		Altitude: About 560 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	17	17	
Hardpan-----	6	23	
Mud, soft-----	7	30	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	5	35	
Sandstone-----	59	94	W.B.
Slate, blue-----	2	96	
Coal-----	3	99	
Limestone, hard-----	5	104	
Sandstone-----	13	117	
Slate, blue-----	3	120	
Coal-----	3	123	
Sandstone, dark-----	9	132	W.B.
Shale, dark-----	18	150	

Well 11/ 9W-26M1			
Type of record: Driller's log.		Altitude: About 590 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	20	20	
Hardpan-----	30	50	
Pennsylvanian system:			
Middle series;			
Shale, blue-----	4	54	
Coal-----	2	56	
Fire clay-----	8	64	
Limestone, sandy-----	12	76	
Sandstone-----	34	110	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-26M1--Continued

Material	Thick-ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, light-----	5	115	
Shale, sandy-----	20	135	
Shale, dark-----	20	155	
Sandstone-----	5	160	
Shale, dark-----	22	182	
Coal-----	3	185	
Limestone, very hard-----	5	190	W.B.
Limestone, sandy-----	10	200	
Coal-----	5	205	
Fire clay-----	5	210	
Shale, sandy-----	6	216	

Well 11/ 9W-26N1

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

Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	12	12	
Sand-----	13	25	
Hardpan-----	25	50	
Sand-----	35	85	
Pennsylvanian system:			
Middle series:			
Shale-----	39	124	
Limestone-----	3	127	W.B.
Shale-----	1	128	

Well 11/ 9W-26N3

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	9	9	
Silt-----	10	19	
Shale, sandy-----	11	30	Sandy clay (?)
Shale, gray-----	10	40	Clay (?)
Sand and gravel-----	6	46	W.B.
Shale, gray-----	--	46	Clay (?)

Well 11/ 9W-26R2

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

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

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-26R2--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	82.5	101.5	
Coal-----	1.5	103	
Shale, hard-----	3	106	
Limestone-----	3	109	
Shale, gray-----	5	114	
Shale, sandy-----	10	124	
Slate, black-----	7	131	
Shale, gray-----	51	182	
Slate, black-----	4	186	W.B.
Shale, gray-----	21	207	
Sandstone-----	7	214	
Shale, sandy-----	39	253	
Sandstone-----	11	264	
Shale, sandy-----	3	267	
Sandstone-----	10	277	
Slate, black-----	4	281	
Shale, gray-----	9	290	
Sandstone-----	6	296	
Shale, gray-----	4	300	

Well 11/ 9W-27G1			
Type of record: Driller's log.		Altitude: About 570 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Soil-----	6	6	
Clay, soft-----	11	17	
Hardpan-----	13	30	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	39	69	
Shale, light-gray-----	15	84	
Shale, gray-----	16	100	
Shale, blue-----	30	130	

Well 11/ 9W-28B1			
Type of record: Driller's log.		Altitude: About 535 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan-----	30	40	
Sand-----	5	45	
Hardpan-----	33	78	
Gravel-----	1	79	W.B.
Hardpan-----	3	82	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-28B1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, blue-----	3	85	

Well 11/ 9W-28G1

Type of record: Driller's log.		Altitude: About 560 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	3	3	
Hardpan-----	5	8	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	9	17	

Well 11/ 9W-29N1

Type of record: Driller's log.		Altitude: About 485 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Soil and sand-----	10	10	
Sand and gravel-----	8	18	
Pennsylvanian system:			
Middle series:			
Shale-----	2	20	

Well 11/ 9W-30D1

Type of record: Driller's log.		Altitude: About 480 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	26	26	
Sand, fine-----	9	35	W.B.
Gravel, loose-----	7	42	W.B.
Gravel, coarse, solid-----	--	42	W.B.

Well 11/ 9W-30M1

Type of record: Driller's log.		Altitude: About 485 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Soil and dirt-----	8	8	
Gravel, medium-----	14	22	W.B.
Sand, coarse-----	5	27	W.B.
Pennsylvanian system:			
Middle series:			
Shale-----	2	29	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-30N1			
Type of record: Driller's log.		Altitude: About 480 feet.	
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil and muck, soft-----	14	14	
Gravel-----	1	15	
Pennsylvanian system:			
Middle series:			
Shale-----	1	16	

Well 11/ 9W-31E1			
Type of record: Driller's log.		Altitude: About 492 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Soil, sand, and gravel-----	25	25	
Pennsylvanian system:			
Middle series:			
Shale-----	20	45	
Sandstone, hard-----	40	85	
Shale-----	10	95	
Sandstone and silty sandstone---	24	119	
Shale and silty shale-----	85	204	
Coal-----	6	210	
Limestone-----	5	215	
Coal-----	2	217	
Shale, silty-----	16	233	
Coal-----	4	237	
Shale-----	62	299	
Sandstone, lignitic, limy-----	4	303	
Shale-----	70	373	
Coal-----	3	376	
Shale-----	9	387	
Sandstone-----	24	411	T.D. 1,228 ft

Well 11/ 9W-31N1			
Type of record: Driller's log.		Altitude: About 495 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Soil and dirt-----	8	8	
Gravel, medium-----	11	19	W.B.
Pennsylvanian system:			
Middle series:			
Shale, blue-----	2	21	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-32J1

Type of record: Driller's log. Altitude: About 535 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil-----	14	14	
Sand-----	61	75	
Gravel-----	10	85	
Pennsylvanian system:			
Middle series:			
Shale with some coal-----	20	105	
Shale, silty-----	105	210	
Shale, coaly, black-----	3	213	
Limestone and shale-----	12	225	
Limestone-----	17	242	
Shale, black, and coal-----	3	245	
Shale, silty-----	76	321	T.D. 1,180 ft

Well 11/ 9W-32M1

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

Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	10	10	
Sand-----	10	20	
Quicksand-----	12	32	W.B.
Hardpan-----	8	40	
Gravel-----	6	46	W.B.
Pennsylvanian system:			
Middle series:			
Shale-----	17	63	

Well 11/ 9W-33C1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	13	13	
Clay, sandy-----	4	17	
Gravel and sand, muddy-----	2	19	
Clay, hard, and gravel-----	4	23	
Clay, hard, gritty-----	19	42	
Clay, shaly-----	9	51	
Shale, gritty, blue-----	28	79	Clay (?)
Shale, gravelly, black-----	6	85	Do
Shale, gravelly, blue-----	7	92	Do
Pennsylvanian system:			
Middle series:			
Limestone-----	12	104	
Shale, gritty, blue-----	22	126	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-33F1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	17	17	
Hardpan-----	16	33	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	25	58	
Shale, dark-----	14	72	
Coal-----	3	75	W.B.
Shale, gray-----	4	79	
Limestone, hard-----	2	81	
Sandstone-----	5	86	W.B.
Shale, sandy-----	6	92	
Sandstone, broken-----	8	100	
Shale, gray-----	3	103	

Well 11/ 9W-33G1

Type of record: Driller's log. Altitude: About 548 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	10	10	
Sand, silty-----	20	30	
Pennsylvanian system:			
Middle series:			
Sandstone, broken-----	20	50	
Sandstone-----	20	70	
Clay-----	5	75	
Coal-----	3	78	
Sandstone, silty-----	42	120	
Limestone-----	5	125	
Shale, gray-----	75	200	
Coal and slate-----	4	204	
Limestone-----	6	210	
Sandstone-----	20	230	
Coal-----	5	235	
Limestone-----	5	240	
Clay-----	10	250	
Shale, gray-----	50	300	
Coal-----	5	305	T.D. 1,185 ft

Well 11/ 9W-34C1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	18	18	
Hardpan-----	26	44	
Gravel-----	8	52	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-34L1

Type of record: Driller's log. Altitude: About 565 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	21	21	
Hardpan-----	31	52	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	8	60	
Coal-----	1	61	
Shale, soft, yellow-----	9	70	
Shale, soft, gray-----	4	74	
Shale, sandy-----	61	135	
Shale, dark-----	46	181	
Coal-----	5	186	
Limestone-----	4	190	
Limestone, hard-----	5	195	
Shale, light-----	4	199	
Slate, dark-----	7	206	
Coal-----	4	210	W.B.
Shale, dark-----	6	216	
Limestone, hard-----	4	220	W.B.
Shale, light-----	7	227	
Shale, dark-----	29	256	

Well 11/ 9W-34P1

Type of record: Driller's log. Altitude: About 576 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	17	17	
Hardpan-----	12	29	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	21	50	
Sandstone-----	16	66	W.B.
Coal and fire clay-----	5	71	
Shale, sandy-----	4	75	
Limestone, hard-----	4	79	
Sandstone, white-----	9	88	W.B.
Shale, dark-----	12	100	

Well 11/ 9W-34Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	18	18	
Hardpan-----	3	21	
Gravel-----	9	30	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-34Q1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, blue-----	20	50	
Shale, gray-----	9	59	
Sandstone-----	6	65	W.B.
Shale, blue-----	5	70	
Sandstone-----	5	75	
Shale, blue-----	45	120	
Limestone, brown-----	15	135	W.B.
Shale, blue-----	10	145	
Well 11/ 9W-35C1			
Type of record: Driller's log.		Altitude: About 580 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	38	38	
Gravel-----	2	40	
Shale, gravelly-----	7.5	47.5	Gravelly clay (?)
Pennsylvanian system:			
Middle series:			
Limestone-----	.5	48	
Soft-----	1	49	Shale (?)
Limestone-----	2	51	
Sandstone-----	9	60	
Shale, sandy-----	13	73	
Shale, gray-----	70	143	
Shale, soft-----	10	153	
Coal-----	2	155	
Fire clay-----	1.5	156.5	
Limestone-----	4.5	161	
Shale, white-----	4	165	
Slate, gray-----	3	168	
Sandstone-----	2	170	
Limestone-----	5	175	
Shale, gray-----	2	177	
Slate, black-----	1	178	
Coal-----	3	181	
Fire clay-----	11	192	
Shale, gray-----	53	245	
Limestone-----	1	246	
Shale, sandy-----	4	250	
Shale, gray-----	70	320	
Sandstone-----	10	330	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-35K1

Type of record: Driller's log.

Altitude: About 570 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	15	15	
Hardpan-----	20	35	W.B.
Pennsylvanian system:			
Middle series:			
Shale, gray-----	4	39	
Sandstone-----	6	45	
Shale, sandy-----	70	115	
Shale, dark-----	28	143	
Coal-----	3	146	
Limestone, hard-----	5	151	W.B.
Shale, gray-----	5	156	
Slate, dark-----	9	165	
Coal-----	4	169	
Limestone-----	2	171	
Slate, gray-----	3	174	
Limestone, hard-----	11	185	W.B.
Shale, dark-----	5	190	

Well 11/ 9W-35P1

Type of record: Driller's log.

Altitude: About 570 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan, gravelly-----	4	22	
Clay, sandy-----	7	29	
Pennsylvanian system			
Middle series:			
Shale, sandy, soft, gray-----	9	38	
Shale, soft, gray-----	7	45	
Shale, solid, dark-gray-----	55	100	
Shale, booty, light-gray-----	5	105	
Shale, dark-----	3	108	
Coal-----	2	110	Gas
Limestone-----	5	115	
Rock, white-----	3	118	Limestone (?)
Sandstone-----	9	127	W.B.
Shale-----	1	128	
Slate-----	1	129	
Coal-----	3	132	
Fire clay-----	5	137	
Shale, gray-----	7	144	
Sandstone-----	2	146	
Shale, gray-----	32	178	
Coal-----	.5	178.5	
Shale, gray-----	7.5	186	
Sandstone-----	80	266	W.B.
Shale, gray-----	5	271	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/ 9W-36Q1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	12	12	
Gravel-----	12	24	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	37	61	
Shale, muddy, gray-----	20	81	
Slate, dark-----	4	85	
Limestone, hard-----	2	87	
Shale, blue-----	8	95	
Limestone, shell-----	5	100	
Shale, light-----	12	112	
Shale, dark, and coal-----	4	116	
Limestone-----	3	119	
Shale, dark-blue-----	120	239	
Shale, light-----	26	265	
Shale, white-----	39	304	
Shale, dark-----	20	324	
Sandstone-----	6	330	T.D. 560 ft

Well 11/ 9W-36R2

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	19	19	
Pennsylvanian system:			
Middle series:			
Shale-----	89	108	
Coal, trace-----	--	108	
Limestone-----	2	110	
Shale-----	8	118	
Sandstone-----	7	125	
Shale, gray-----	1	126	
Slate, black-----	8	134	
Fire clay-----	4	138	
Sandstone-----	2	140	
Shale, sandy-----	5	145	
Shale, soft-----	40	185	
Slate, black-----	3	188	
Coal-----	2	190	
Fire clay-----	4	194	
Sandstone-----	20	214	
Shale, sandy-----	3	217	
Shale, dark-----	11	228	
Sandstone-----	50	278	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/10W- 2H1

Type of record: Driller's log. Altitude: About 530 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan-----	37.5	47.5	
Pennsylvanian system:			
Middle series:			
Shale, light-----	14	61.5	
Slate-----	1	62.5	W.B.
Fire clay-----	2.5	65	
Shale-----	21	86	
Limestone-----	2	88	
Fire clay-----	12	100	
Shale, gray-----	2	102	

Well 11/10W- 2M1

Type of record: Driller's log. Altitude: About 470 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Hardpan-----	38	48	
Pennsylvanian system:			
Middle series:			
Limestone-----	5	53	
Shale, white-----	9	62	
Shale, gray-----	28	90	
Coal-----	2	92	
Fire clay-----	--	92	

Well 11/10W- 4G1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Hardpan, gray-----	61	76	
Sand-----	3	79	W.B.
Sand and gravel-----	3	82	W.B.
Hardpan-----	1	83	
Sand and gravel-----	6	89	W.B.

Well 11/10W- 4H1

Type of record: Driller's log. Altitude: About 545 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil and yellow clay-----	10	10	
Hardpan, soft, yellow-----	18	28	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/10W- 4H1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Hardpan, soft, with solid streaks; gray-----	47	75	
Glacial mud, soft, dark-----	9	84	
Sand, muddy-----	11	95	W.B.

Well 11/10W- 4R1

Type of record: Driller's log. Altitude: About 540 feet.

Quaternary system:			
Recent and Pleistocene series:			
Record missing-----	80	80	
Hardpan, sandy-----	6	86	
Sand and gravel-----	14	100	W.B.

Well 11/10W- 9J1

Type of record: Driller's log. Altitude: About 530 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Softpan, yellow-----	25	40	
Softpan, gray-----	28	68	
Hardpan, gray-----	27	95	
Sand, and some gravel; dirty----	5	100	W.B.

Well 11/10W- 9K1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface and yellow clay-----	23	23	
Hardpan, gray-----	42.5	65.5	
Sand and gravel-----	9.5	75	W.B.
Pennsylvanian system:			
Middle series:			
Shale, gray-----	15	90	
Shale, green-----	15	105	

Well 11/10W-10D1

Type of record: Driller's log. Altitude: About 540 feet.

Quaternary system:			
Recent and Pleistocene series:			
Muck, black-----	7	7	
Clay, yellow-----	7	14	
Clay, gritty-----	11	25	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/10W-10D1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, blue-----	12	37	

Well 11/10W-10G1

Type of record: Driller's log. Altitude: About 540 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	1	1	
Clay, yellow-----	18	19	
Clay, sandy, hard-----	16	35	
Pennsylvanian system:			
Middle series:			
Shale-----	--	35	

Well 11/10W-15H1

Type of record: Driller's log. Altitude: About 484 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and gravel-----	40	40	
Pennsylvanian system:			
Middle series:			
Limestone-----	2	42	
Sandstone-----	13	55	
Coal-----	2	57	
Clay-----	8	65	
Shale, sandy-----	35	100	
Shale, gray-----	110	210	
Shale-----	10	220	
Limestone-----	4	224	
Shale, gray-----	16	240	
Shale-----	40	280	
Coal-----	2	282	
Shale, gray-----	18	300	
Shale, dark-----	30	330	T.D. 1,185 ft

Well 11/10W-23B1

Type of record: Driller's log. Altitude: About 475 feet.

Quaternary system:			
Recent and Pleistocene series:			
Soil and gravel-----	10	10	
Gravel, medium-----	35	45	W.B. 17 to 107 ft
Sand, coarse-----	8	53	
Sand, medium-----	12	65	
Sand and gravel, coarse-----	27	92	
Gravel, medium-----	15	107	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/10W-23B1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system: Middle series: Shale-----	2	109	

Well 11/10W-23N1

Type of record: Driller's log.		Altitude: About 470 feet.	
Quaternary system: Recent and Pleistocene series:			
Gravel and sand-----	10	10	
Hardpan-----	7	17	
Gravel-----	47	64	W.B.

Well 11/10W-24L1

Type of record: Driller's log.		Altitude: About 460 feet.	
Quaternary system: Recent and Pleistocene series:			
Top soil, gravelly-----	10	10	
Gravel, fine, muddy-----	62	72	W.B.
Sand, coarse, and fine gravel; clean-----	12	84	W.B.
Pennsylvanian system: Middle series: Shale-----	3	87	

Well 11/10W-25C2

Type of record: Driller's log.		Altitude: About 475 feet.	
Quaternary system: Recent and Pleistocene series:			
Sand and gravel-----	20	20	
Pennsylvanian system: Middle series:			
Sandstone-----	18	38	W.B.
Shale, dark-----	21	59	
Coal-----	3	62	W.B.
Fire clay-----	3	65	
Shale, light-----	5	70	
Limestone, hard-----	2	72	
Shale, sandy-----	18	90	W.B.

Well 11/10W-25E1

Type of record: Driller's log.		Altitude: About 480 feet.	
Quaternary system: Recent and Pleistocene series:			
Sand and gravel-----	20	20	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/10W-25E1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Sandstone, white-----	42	62	W.B.
Fire clay-----	5	67	
Coal-----	2	69	W.B.
Shale, light-----	6	75	
Shale, sandy-----	10	85	W.B.

Well 11/10W-25E5			
Type of record: Driller's log.		Altitude: About 480 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	23	23	
Pennsylvanian system:			
Middle series:			
Sandstone-----	34	57	W.B.
Shale, dark-----	6	63	
Coal-----	2	65	W.B.
Fire clay-----	3	68	
Shale, gray-----	7	75	
Sandstone-----	7	82	W.B.

Well 11/10W-25F5			
Type of record: Driller's log.		Altitude: About 480 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Gravel-----	24	24	
Pennsylvanian system:			
Middle series:			
Shale, limy, sandy, broken-----	32	56	
Shale, dark-----	7	63	
Coal-----	1	64	
Shale-----	3	67	

Well 11/10W-25F6			
Type of record: Driller's log.		Altitude: About 485 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Gravel-----	16	16	
Pennsylvanian system:			
Middle series:			
Sandstone-----	30	46	
Shale, gray-----	18	64	
Coal-----	1	65	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/10W-25F7

Type of record: Driller's log. Altitude: About 485 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	24	24	
Pennsylvanian system:			
Middle series:			
Sandstone-----	17	41	
Shale, dark-----	18	59	
Coal-----	2	61	W.B.
Fire clay-----	2	63	
Shale, dark-----	5	68	
Shale, gray-----	4	72	
Sandstone-----	9	81	

Well 11/10W-25J1

Type of record: Driller's log. Altitude: ,About 480 feet.

Quaternary system:			
Recent and Pleistocene series:			
Open pit-----	10	10	
Gravel-----	9	19	
Pennsylvanian system:			
Middle series:			
Sandstone-----	35	54	
Shale-----	12	66	
Coal-----	2	68	
Fire clay-----	1	69	
Shale, light-----	--	69	

Well 11/10W-25J2

Type of record: Driller's log. Altitude: About 480 feet.

Quaternary system:			
Recent and Pleistocene series:			
Gravel-----	25	25	
Pennsylvanian system:			
Middle series:			
Limestone, sandy, white-----	25	50	
Shale-----	5	55	

Well 11/10W-25L1

Type of record: Driller's log. Altitude: About 480 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	12	12	
Pennsylvanian system:			
Middle series:			
Sandstone-----	38	50	W.B.
Shale, dark-----	8	58	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 11/10W-25L1--Continued *			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	1	59	
Shale, gray-----	10	69	
Limestone-----	1	70	
Sandstone, white-----	23	93	W.B.

Well 11/10W-25M1			
Type of record: Driller's log.		Altitude: About 480 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Gravel-----	24	24	
Pennsylvanian system:			
Middle series:			
Sandstone, red-----	3	27	
Sandstone, gray-----	29	56	
Coal-----	1	57	
Fire clay-----	8	65	
Shale-----	10	75	
Sandstone-----	8	83	
Shale-----	8	91	

Well 11/10W-25N2			
Type of record: Driller's log.		Altitude: About 485 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Gravel-----	13	13	
Pennsylvanian system:			
Middle series:			
Limestone-----	37	50	
Shale, dark-----	11	61	
Coal-----	2	63	
Fire clay-----	2	65	

Well 11/10W-26R1			
Type of record: Driller's log.		Altitude: About 475 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Gravel-----	27	27	
Hardpan-----	15	42	
Sand-----	10	52	W.B.
Gravel-----	--	52	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

		Well 12/ 8W- 1R1		
Type of record: Driller's log.				Altitude: About 590 feet.
Material	Thick- ness (feet)	Depth (feet)	Remarks	
Quaternary system:				
Recent and Pleistocene series:				
Surface-----	17	17		
Softpan, yellow-----	7	24		
Hardpan, gray-----	28	52		
Softpan-----	35	87		
Pennsylvanian system:				
Middle (?) series:				
Shale, light-----	1	88		
Slate, dark-blue-----	12	100		
Shale, soft, light-----	8	108		
Limestone, shelly-----	2	110		
Chip slate, black-----	3	113		
Clay, cavy, dark-----	10	123		
Shale, clayey, cavy, light-----	26	149		
Shale, sandy, hard, light-blue---	5	154		
Shale, dark-----	9	163		
Shale, sandy, light-----	5	168		
Lower series:				
Shale, dark-----	3	171		
Shale, sandy, blue-----	25	196		
Shale, sandy, gray-----	12	208		
Slate, brown-----	9	217		
Coal-----	1	218		
Fire clay, tough-----	7	225		
Shale, sandy, light-----	5	230		
Shale, sandy, blue-----	18	248		
Coal-----	2	250		
Fire clay-----	2	252		
Shale, sandy, light-----	33	285		
Shale, sandy, blue-----	40	325		
Sandstone, gray-----	12	337	W.B.	
Shale, sandy, blue-----	2	339		
Sandstone, soft, blue-----	16	355	W.B.	
Shale, dark-blue-----	8	363		

		Well 12/ 8W- 2A1		
Type of record: Driller's log.				Altitude: About 590 feet.
Material	Thick- ness (feet)	Depth (feet)	Remarks	
Quaternary system:				
Recent and Pleistocene series:				
Surface-----	13	13		
Sand, red-----	30	43		
Hardpan-----	2	45		
Gravel-----	2	47		
Hardpan-----	6	53		
Gravel-----	5	58		
Pennsylvanian system:				
Middle (?) series:				
Shale-----	2	60		

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W- 2R2

Type of record: Driller's log.

Altitude: About 580 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Hardpan, gray-----	38	58	
Pennsylvanian system:			
Middle (?) series:			
Shale, sandy, light-----	6	64	
Shale, sandy, dark-----	4	68	
Slate, sandy, gray-----	5	73	
Coal-----	6	79	
Clay-----	3	82	
Shale, sandy, white-----	3	85	
Shale, sandy, blue-----	5	90	
Slate, black-----	4	94	
Coal-----	2	96	
Shale, sandy, light-----	3	99	

Well 12/ 8W- 6D1

Type of record: Driller's log.

Altitude: About 585 feet.

Quaternary system:			
Recent and Pleistocene series:			
Muck-----	13.5	13.5	
Sand and gravel-----	1.5	15	
Softpan-----	5	20	
Sand and gravel, streak-----	--	20	
Pennsylvanian system:			
Middle series:			
Slate, blue, and coal-----	2	22	
Fire clay, soft-----	5	27	
Shale, sandy, gray-----	53	80	
Slate, black-----	4	84	
Coal-----	5	89	
Fire clay, hard-----	1	90	
Shale, sandy, light-----	5	95	
Coal-----	1	96	
Shale, sandy, light-----	6	102	
Sandstone, blue-----	10	112	
Shale, sandy, light-----	6	118	
Slate, dark-blue-----	9	127	
Coal-----	2	129	
Fire clay, white-----	2	131	
Shale, sandy, white-----	17	148	
Slate, brown-----	5	153	
Coal-----	3	156	
Clay-----	1	157	
Shale, sandy, light-----	7	164	
Coal-----	1	165	
Shale, sandy, light-----	14	179	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W- 6D1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower (?) series:			
Chip slate, black-----	4	183	
Coal-----	1	184	
Shale, light-----	1	185	

Well 12/ 8W- 6M1			
Type of record: Driller's log.		Altitude:--	About 580 feet.
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	15	15	
Softpan, yellow-----	15	30	
Hardpan, gray, and trace of sand-	33	63	W.B.
Hardpan, dark-----	27	90	
Softpan, yellow-----	10	100	
Wash, clayey, gray-----	15	115	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	--	115	

Well 12/ 8W- 6M2			
Type of record: Driller's log.		Altitude:--	About 580 feet.
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	21	21	
Softpan, yellow-----	9	30	
Sand, trace-----	--	30	W.B.
Softpan, gray-----	6	36	
Hardpan, gray-----	50	86	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	26	112	
Slate, blue-----	10	122	
Shale, gray-----	10	132	
Slate, hard, dark-----	1	133	
Slate, black-----	3	136	
Chip slate, black-----	6	142	
Shale, sandy, gray-----	25	167	
Coal, trace-----	--	167	
Fire clay, dark-----	2	169	
Shale, gray-----	3	172	
Coal-----	1	173	
Fire clay, blue-----	3	176	
Shale, sandy, light-----	3	179	
Shale, sandy, gray-----	10	189	
Shale, light-----	4	193	
Sandstone, gray-----	7	200	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W- 6M2--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system: Lower (?) series: Shale, gray-----	--	200	

Well 12/ 8W- 6M3

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	21	21	
Clay, sandy-----	18	39	
Sand and gravel-----	3	42	W.B.
Hardpan-----	2	44	
Gravel-----	2	46	W.B.
Hardpan-----	16	62	

Well 12/ 8W- 7R2

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

Quaternary system:			
Recent and Pleistocene series:			
Sand-----	35	35	
Hardpan, sandy-----	30	65	
Hardpan and gravel-----	5	70	
Hardpan-----	12	82	
Sand-----	1	83	W.B.
Sand and gravel-----	7	90	W.B.
Sand-----	7	97	W.B.
Hardpan-----	8	105	

Well 12/ 8W- 8A1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Hardpan, gray-----	50	70	
Softpan and wash-----	25	95	
Sand-----	2	97	
Wash-----	2	99	
Sand and gravel-----	2	101	W.B.

Well 12/ 8W- 8P1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface and sand-----	58	58	
Gravel-----	1	59	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W- 8P1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Hardpan-----	12	71	
Gravel-----	7	78	W.B.

Well 12/ 8W- 8Q1

Type of record: Driller's log.

Altitude: About 563 feet.

Quaternary system:			
Recent and Pleistocene series:			
Soil, clay, sand and gravel seams, and hardpan-----	152	152	
Pennsylvanian system:			
Lower series:			
Slate, black-----	12	164	
Sandstone and sandy shale-----	7	171	
Shale, gray-----	2.8	173.8	
Coal-----	1.5	175.3	
Shale, slightly sandy-----	9.6	184.9	
Sandstone-----	4.6	189.5	
Coal-----	.5	190	
Sandstone-----	5.5	195.5	
Shale, gray-----	.5	196	
Sandstone-----	1	197	
Sandstone and shale-----	8.5	205.5	
Slate, gray-----	2.5	208	
Coal-----	1.5	209.5	
Clay-----	1.5	211	
Shale, light-gray-----	6.1	217.1	
Limestone-----	1.7	218.8	
Slate, black-----	5.2	224	
Shale, gray-----	4.5	228.5	
Sandstone-----	.3	228.8	
Shale, sandy-----	13.2	242	
Slate, black-----	3	245	
Coal-----	3	248	
Clay-----	2	250	
Slate, black-----	4	254	
Shale, gray-----	1	255	
Slate, gray, with siderite-----	3.5	258.5	
Shale, gray-----	18.5	277	
Shale, dark-----	2	279	
Limestone-----	1.1	280.1	
Slate, fossilized, black, some coal-----	9.9	290	
Sandstone, limy-----	10	300	
Shale, gray, with siderite bands-----	21	321	
Sandstone, limy-----	24	345	T.D. 790 ft

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W- 9N1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Sand-----	4	24	
Hardpan-----	45	69	
Sand-----	4	73	W.B.
Sand and gravel, yellow-----	13	86	W.B.

Well 12/ 8W-10R1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	21	21	
Pennsylvanian system:			
Middle series:			
Sandstone-----	20	41	
Shale, blue-----	30	71	
Slate, black-----	6	77	
Coal-----	1	78	
Fire clay-----	2	80	

Well 12/ 8W-11D1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Hardpan, gray-----	11	25	
Sand and gravel-----	2	27	
Hardpan, gray-----	28	55	
Wash, yellow-----	7	62	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	3	65	
Slate, gray-----	5	70	
Slate, dark-----	4	74	
Coal-----	4	78	
Fire clay, blue-----	3	81	
Shale, sandy, blue-----	10	91	
Slate, dark-----	7	98	
Coal-----	2	100	W.B.
Shale, gray-----	10	110	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-11F1			
Type of record:	Driller's log.	Altitude:	About 580 feet.
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	18	18	
Hardpan-----	12	30	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	5	35	
Slate, dark-----	15	50	
Slate, black-----	4	54	W.B.
Fire clay-----	4	58	
Shale, sandy-----	6	64	
Slate, gray-----	4	68	W.B.
Coal-----	5	73	
Fire clay-----	6	79	
Sandstone-----	7	86	W.B.
Shale, dark-----	2	88	

Well 12/ 8W-11K1			
Type of record:	Driller's log.	Altitude:	About 580 feet.
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	25	25	
Sand and gravel-----	1	26	
Hardpan, gray-----	19	45	
Pennsylvanian system:			
Middle series:			
Shale, sandy, light-----	15	60	
Slate, gray-----	7	67	
Coal-----	4	71	
Fire clay, cavy-----	7	78	
Shale, light-----	4	82	
Shale, sandy, blue-----	3	85	
Slate, black-----	10	95	
Clay-----	2	97	
Shale, cavy, gray-----	8	105	
Slate, black-----	2	107	
Coal, trace-----	--	107	
Clay-----	2	109	
Shale, cavy, gray-----	7	116	
Slate, blue-----	3	119	
Coal, trace-----	--	119	
Shale, cavy, light-gray-----	5	124	
Shale, cavy, white-----	5	129	
Shale, cavy, light-gray-----	15	144	
Shale, sandy, gray-----	3	147	
Shale, gray-----	4	151	
Shale, dark-gray-----	15	166	
Shale, sandy, light-----	2	168	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-11K1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower (?) series:			
Limestone-----	2	170	
Shale, dark-----	6	176	
Shale, sandy, dark-blue-----	24	200	
Shale, sandy, blue-----	17	217	
Limestone-----	1	218	
Slate, sandy, dark-----	2	220	
Coal-----	1	221	
Shale, sandy, light-----	7	228	
Sandstone, white-----	50	278	W.B.; "Bad water"
Sandstone, blue-----	5	283	
Shale, dark-blue-----	4	287	
Shale, sandy, gray-----	4	291	
Shale, sandy, blue-----	26	317	
Sandstone, blue-----	15	332	
Shale, sandy, blue-----	52	384	
Sandstone, blue-----	12	396	
Shale, blue-----	14	410	
Shale, sandy, blue-----	4	414	
Sandstone-----	36	450	W.B.

Well 12/ 8W-11P1

Type of record: Driller's log.

Altitude: About 590 feet.

Record missing-----	99	99	
Pennsylvanian system:			
Middle series:			
Fire clay, white-----	5	104	
Slate, sandy, gray-----	6	110	
Limestone-----	1	111	
Slate, black-----	5	116	
Shale, gray-----	12	128	
Coal-----	2	130	
Fire clay-----	6	136	
Shale, gray-----	6	142	
Shale (?), light-gray-----	14	156	
Shale, gray-----	14	170	
Shale, dark-black-----	4	174	
Shale, sandy, blue-----	2	176	
Lower (?) series:			
Shale, gray-----	8	184	
Shale, sandy, blue-----	5	189	
Shale, dark-blue-----	5	194	
Shale, sandy, blue-----	4	198	
Shale, sandy, gray-----	15	213	
Shale, dark-----	4	217	
Shale, sandy, gray-----	15	232	
Shale, gray-----	24	256	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-11P1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower (?) series:			
Shale, sandy, gray-----	11	267	
Shale, sandy, light-gray-----	21	288	
Shale, dark-gray-----	10	298	
Shale, sandy, light-gray-----	5	303	
Sandstone, pasty, gray-----	25	328	
Sandstone, gray-----	13	341	"Bad water"
Sandstone, blue-----	9	350	Do
Shale, sandy, blue-----	25	375	Do
Sandstone, pasty, gray-----	15	390	
Shale, sandy, blue-----	15	405	
Sandstone, blue-----	100	505	W.B.
Well 12/ 8W-11R1			
Type of record: Driller's log.		Altitude: About 580 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Sand, yellow-----	4	18	
Hardpan, dark-----	26	44	
Softpan, dark-----	23	67	
Pennsylvanian system:			
Middle series:			
Sandstone-----	13	80	
Coal-----	5.5	85.5	
Fire clay-----	3.5	89	
Shale, white-----	6	95	
Slate, blue-----	3.5	98.5	
Limestone, hard-----	1.5	100	
Slate, blue-----	5	105	
Coal-----	3	108	
Fire clay-----	2	110	
Shale, light-----	30	140	
Shale, blue-----	30	170	
Sandstone-----	10	180	W.B.
Lower (?) series:			
Shale, sandy, blue-----	83	263	
Coal-----	1	264	
Fire clay-----	3	267	
Shale, sandy, light-----	15	282	
Sandstone, blue-----	19	301	W.B.
Sandstone, white-----	99	400	W.B.

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-12C1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	17	17	
Sand-----	26	43	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	21	64	
Coal-----	5	69	
Fire clay-----	5	74	
Shale, black-----	31	105	
Coal-----	1	106	
Shale, gray-----	24	130	
Sandstone-----	19	149	
Lower (?) series:			
Shale, sandy-----	121	270	
Sandstone-----	15	285	

Well 12/ 8W-12G1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, red-----	15	15	
Hardpan-----	45	60	
Sand and gravel-----	15	75	
Pennsylvanian system:			
Middle series:			
Shale, light-----	10	85	
Limestone, hard-----	2	87	
Coal-----	3	90	W.B.
Shale, dark-----	5	95	
Shale, light-----	5	100	
Sandstone, white-----	35	135	W.B.
Shale, light-----	10	145	
Slate, dark-----	7	152	
Sandstone, dark-----	16	168	
Sandstone, broken-----	7	175	
Sandstone, white-----	15	190	W.B.
Lower (?) series:			
Shale, dark-----	--	190	

Well 12/ 8W-13P1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan, gray-----	7	25	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-13P1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Sandstone, pasty, gray-----	4	29	W.B.
Slate, sandy, gray-----	10	39	
Slate, gray-----	13	52	
Slate, black-----	8	60	
Coal, trace-----	--	60	
Fire clay, white-----	3	63	
Slate, gray-----	4	67	
Slate, dark-----	3	70	
Coal, trace-----	--	70	
Slate, gray-----	20	90	
Coal-----	1	91	
Slate, gray-----	16	107	
Slate, dark-----	3	110	
Coal-----	2	112	
Fire clay-----	3	115	
Shale, gray-----	5	120	

Well 12/ 8W-14J1			
Type of record: Driller's log.	Altitude: About 580 feet.		
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	48	48	
Pennsylvanian system:			
Middle series:			
Fire clay-----	4	52	
Sandstone, gray-----	5	57	
Shale, gray-----	15	72	
Slate, black-----	8	80	
Fire clay-----	3	83	
Shale, gray-----	7	90	
Sandstone-----	4	94	
Coal-----	5	99	
Fire clay-----	4	103	
Limestone-----	3	106	
Slate, black-----	4.5	110.5	
Coal-----	1.5	112	
Shale, sandy-----	11	123	
Slate, black-----	4	127	
Fire clay-----	5	132	
Shale, sandy-----	6	138	
Coal-----	1	139	
Fire clay-----	4	143	
Shale, sandy-----	51	194	
Sandstone-----	9	203	
Lower (?) series:			
Shale, sandy, gray-----	40	243	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-14J1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower (?) series:			
Coal-----	1	244	
Fire clay-----	3	247	
Sandstone-----	23	270	
Shale, dark-----	15	285	
Sandstone-----	30	315	W.B.
Shale, sandy, gray-----	10	325	

Well 12/ 8W-15A1

Type of record: Driller's log.		Altitude: About 595 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Pennsylvanian system:			
Middle series:			
Sandstone-----	7	25	
Shale, blue-----	45	70	
Limestone-----	5	75	
Sandstone-----	40	115	W.B.
Coal-----	3	118	

Well 12/ 8W-15B1

Type of record: Driller's log.		Altitude: About 590 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Pennsylvanian system:			
Middle series:			
Sandstone-----	10	28	
Slate-----	17	45	
Coal-----	1	46	
Clay-----	3	49	
Slate, gray-----	16	65	
Sandstone, white-----	35	100	W.B.

Well 12/ 8W-15C2

Type of record: Driller's log.		Altitude: About 500 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Pennsylvanian system:			
Middle series:			
Sandstone, soft, yellow-----	8	28	
Shale, gray-----	20	48	
Sandstone-----	7	55	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-15C2--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	5	60	
Shale, dark-----	8	68	
Coal-----	6	74	
Shale, light-----	10	84	
Shale, sandy-----	11	95	
Coal-----	2	97	
Shale, light-----	5	102	
Shale, blue-----	8	110	
Well 12/ 8W-15D1			
Type of record: Driller's log.		Altitude: About 570 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	20	20	
Hardpan-----	11	31	
Boulders-----	4	35	
Sand and gravel-----	13	48	
Hardpan-----	8	56	
Shale, soft, dark-----	9	65	Soft clay (?)
Mud and gravel-----	25	90	
Pennsylvanian system:			
Middle series:			
Shale, soft, light-----	10	100	
Slate, black-----	4	104	
Sandstone-----	8	112	W.B.
Shale, light-----	4	116	
Limestone-----	2	118	
Slate, black-----	3	121	W.B.
Coal-----	2	123	
Fire clay-----	11	134	
Well 12/ 8W-15E1			
Type of record: Driller's log.		Altitude: About 575 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	20	20	
Hardpan and gravel-----	35	55	
Mud and gravel-----	23	78	
Pennsylvanian system:			
Middle series:			
Coal-----	2	80	W.B.
Fire clay-----	2	82	
Shale, sandy-----	23	105	
Shale, dark-----	45	150	
Slate, black, and coal-----	6	156	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-15E1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, dark-----	17	173	
Sandstone, dark-----	5	178	
Sandstone, light-----	5	183	W.B.
Slate, black-----	15	198	
Limestone, hard-----	5	203	
Shale, light-----	2	205	
Sandstone-----	20	225	W.B.
Lower (?) series:			
Shale-----	13	238	

Well 12/ 8W-16E1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, red-----	14	14	
Sand and gravel-----	6	20	
Hardpan-----	35	55	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	5	60	
Slate, black-----	11	71	
Coal-----	2	73	W.B.
Fire clay-----	3	76	
Limestone, hard-----	2	78	
Shale, sandy-----	12	90	
Sandstone, white-----	29	119	W.B.
Shale, dark-----	6	125	
Slate, black-----	6	131	W.B.

Well 12/ 8W-16H1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Sand-----	22	40	
Hardpan-----	19	59	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	12	71	
Slate, black-----	5	76	
Shale, light-----	7	83	
Sandstone-----	30	113	
Coal-----	3	116	
Shale, light-----	9	125	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-17F2

Type of record: Driller's log. Altitude: About 525 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	10	10	
Shale, blue-----	34	44	Clay (?)
Shale, sandy-----	6	50	Sandy clay (?)
Shale, blue-----	13	63	Clay (?)
Sand and gravel-----	5	68	W.B.
Pennsylvanian system:			
Middle series:			
Coal and slate-----	2	70	
Sandstone-----	2	72	
Shale-----	10	82	

Well 12/ 8W-18B1

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

Quaternary system:			
Recent and Pleistocene series:			
Record missing-----	5	5	
Clay, sandy-----	25	30	
Quicksand-----	11	41	
Hardpan-----	44	85	
Sand-----	2	87	W.B.

Well 12/ 8W-18R1

Type of record: Driller's log. Altitude: About 540 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand-----	65	65	
Sand and gravel, yellow-----	17	82	
Sand and gravel-----	6	88	
Sand, gray-----	10	98	

Well 12/ 8W-18R3

Type of record: Driller's log. Altitude: About 565 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	5	5	
Hardpan, sandy-----	133	138	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	17	155	
Slate, black-----	13	168	
Coal-----	2	170	
Fire clay-----	2	172	
Sandstone, light-----	6	178	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-18R3--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	19	197	
Sandstone, dark-----	11	208	
Slate, black-----	2	211	
Coal-----	2	213	
Fire clay-----	5	218	
Slate, black, with a thin lime- stone shell-----	3	221	
Coal-----	4	225	W. B.
Sandstone-----	10	235	
Lower (?) series:			
Limestone, broken-----	8	243	
Limestone, shell, hard-----	2	245	
Slate, black-----	5	250	
Shale, dark-----	5	255	
Coal-----	2	257	
Shale, brown-----	6	263	

Well 12/ 8W-19A1			
Type of record: Driller's log.		Altitude: About 560 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Soil and surface-----	41	41	
Pennsylvanian system:			
Middle series:			
Fire clay-----	4	45	
Shale, dark-----	8	53	
Shale, gray-----	11	64	
Slate, black-----	5	69	
Fire clay-----	3	72	
Shale, gray-----	18	90	
Sandstone-----	5	95	
Coal-----	5	100	
Fire clay and shale-----	7.5	107.5	
Slate, black-----	4	111.5	
Coal-----	1.5	113	
Shale, sandy-----	14	127	
Slate, black-----	4	131	
Shale, gray-----	20	151	
Shale, sandy-----	26	177	
Shale, dark-----	43	220	
Shale, gray-----	15	235	
Lower (?) series:			
Slate, black-----	4	239	
Coal-----	2	241	
Fire clay-----	3	244	
Shale, dark-----	17	261	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-19A1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower (?) series:			
Coal-----	1	262	
Fire clay-----	3	265	
Shale, sandy, dark-----	30	295	
Sandstone, white-----	25	320	W.B.

Well 12/ 8W-19N1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	15	15	
Shale, sandy-----	3	18	Sandy clay (?)
Gravel-----	1	19	"Dry"
Shale, soft, sandy-----	19	38	Soft sandy clay (?)
Sand, fine-----	9	47	
Coal-----	1	48	
Quicksand-----	18	66	
Shale, sandy-----	3	69	Sandy clay (?)
Sand, coarse-----	2	71	W.B.
Sand and gravel-----	9	80	W.B.
Pennsylvanian system:			
Middle series:			
Sandstone-----	2	82	W.B.

Well 12/ 8W-21A1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan, gray-----	36	54	
Sand and fine gravel-----	3	57	
Hardpan-----	4	61	
Pennsylvanian (?) system:			
Middle (?) series:			
Shale, soft, light-----	17	78	
Shale, green-----	7	85	
Shale, soft, light-----	21	106	
Coal and clay-----	2	108	W.B.

Well 12/ 8W-21H1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-21H1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, fine, yellow-----	5	23	
Hardpan, gray-----	22	45	
Pennsylvanian system:			
Middle series:			
Slate, dark-blue-----	2	47	
Coal-----	3.5	50.5	
Fire clay, light-blue-----	3.5	54	
Sandstone, gray-----	4	58	
Slate, sandy, gray-----	11	69	
Shale, light-gray-----	14	83	
Slate, dark-blue-----	5	88	
Slate, light-blue-----	20	108	
Slate, black-----	3	111	
Coal-----	4.5	115.5	
Fire clay-----	--	115.5	

Well 12/ 8W-21Q1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan-----	37	55	
Pennsylvanian system:			
Middle series:			
Sandstone-----	5	60	
Shale, sandy, light-----	5	65	
Sandstone-----	20	85	
Mine opening-----	5	90	

Well 12/ 8W-21R1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20	20	
Pennsylvanian system:			
Middle series:			
Sandstone, clayey, soft-----	5	25	
Clay, yellow-----	10	35	
Sandstone, pasty, light-blue-----	45	80	W.B.

Well 12/ 8W-22D1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	20.5	20.5	

Table 3.--Selected well logs, Vigo County, Indiana--Continued

Well 12/ 8W-22D1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy, blue-----	15.5	36	
Sandstone-----	28	64	
Coal-----	1	65	
Clay, dark-----	2	67	
Shale, sandy, blue-----	21	88	
Slate, black-----	2	90	

Well 12/ 8W-22N1			
Type of record: Driller's log.		Altitude: About 580 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	25	25	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	20	45	
Sandstone-----	37	82	
Shale, brown-----	18	100	
Sandstone-----	20	120	
Coal-----	3	123	
Shale, light-----	4	127	
Shale, blue-----	16	143	
Slate, black-----	11	154	
Shale, light-----	4	158	
Sandstone-----	2	160	
Shale, light-----	6	166	
Coal-----	6	172	
Shale-----	3	175	

Well 12/ 8W-24A1			
Type of record: Driller's log.		Altitude: About 605 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Hardpan, gray-----	15	31	
Pennsylvanian system:			
Middle series:			
Coal, trace-----	--	31	
Slate, sandy, gray-----	18	49	
Slate, gray-----	10	59	
Slate, black-----	6	65	
Coal-----	1	66	
Fire clay, hard-----	3	69	
Slate, sandy, light-gray-----	9	78	
Slate, gray-----	19	97	
Coal-----	2	99	W.B.