

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

Well 7/9W-3G1

Type of record: Driller's log.

Altitude: About 490 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, red-----	21	21	
Hardpan-----	37	58	
Pennsylvanian system:			
Middle series:			
Shale, light-----	17	75	
Shale, sandy-----	15	90	
Slate, gray-----	14	104	
Coal-----	3	107	W. B.
Fire clay-----	3	110	
Sandstone-----	11	121	W. B.
Shale, gray-----	3	124	

Well 7/9W-4A1

Type of record: Driller's log.

Altitude: About 480 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	16	16	
Hardpan-----	4	20	
Sand and gravel-----	46	66	
Mud, green-----	28	94	
Sand-----	12	106	
Gravel, coarse-----	4	110	W. B.
Pennsylvanian system:			
Middle series:			
Coal-----	1	111	
Shale, sandy-----	4	115	

Well 7/9W-4E2

Type of record: Driller's log.

Altitude: About 479 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	15	15	
Clay, sandy-----	10	25	
Pennsylvanian system:			
Middle (?) series:			
Sandstone-----	20	45	
Sandstone-----	20	65	W. B.
Slate-----	20	85	
Slate, white-----	2	87	
Limestone-----	7	94	
Slate-----	3	97	
Red rock-----	3	100	
Slate-----	3	103	
Sandstone-----	10	113	
Slate-----	5	118	

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

Well 7/9W-4E2--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Sandstone-----	5	123	
Shale, sandy-----	20	143	
Shale-----	17	160	
Shale, sandy-----	25	185	
Coal-----	5	190	
Shale-----	10	200	
Sandstone-----	10	210	
Shale, sandy-----	12	222	
Slate, dark-----	3	225	
Coal-----	8	233	
Slate-----	14	247	
Shale, sandy-----	5	252	
Slate, white-----	13	265	
Slate, gray-----	5	270	
Shale-----	13	283	
Shale, dark-----	4	287	
Slate, sandy, white-----	6	293	
Sandstone, hard-----	12	305	
Slate, sandy, white-----	15	320	
Slate, gray-----	10	330	
Shale, sandy-----	41	371	
Shale-----	20	391	
Limestone, dark-----	4	395	
Shale, dark, and coal-----	15	410	T. D. 731 ft.

Well 7/9W-4J1

Type of record: Driller's log.

Altitude: About 470 feet.

Quaternary system:			
Recent and Pleistocene series:			
Mud and hardpan-----	68	68	
Pennsylvanian system:			
Middle series:			
Sandstone-----	27	95	W. B.
Shale, sandy-----	5	100	

Well 7/9W-4J2

Type of record: Driller's log.

Altitude: About 475 feet.

Record missing-----			
	28	28	
Quaternary system:			
Recent and Pleistocene series:			
Mud and sand-----	46	74	
Pennsylvanian system:			
Middle series:			
Sandstone-----	24	98	W. B.
Shale, dark-----	6	104	

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

Well 7/9W-4K1

Type of record: Driller's log.

Altitude: About 480 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	16	16	
Hardpan-----	16	32	
Pennsylvanian system:			
Middle series:			
Limestone-----	1	33	
Shale, gray-----	2	35	
Limestone-----	5	40	
Shale, gray-----	5	45	
Red rock-----	5	50	
Limestone-----	2	52	
Shale, sandy-----	18	70	
Shale, gray-----	5	75	
Limestone, hard-----	2	77	
Sandstone-----	38	115	
Shale, sandy-----	12	127	
Shale, dark-----	8	135	
Coal-----	1	136	
Fire clay-----	3	139	
Shale, gray-----	31	170	
Shale, dark-----	6	176	
Coal-----	4	180	Gas
Shale, gray-----	17	197	
Limestone, sandy-----	10	207	
Shale, gray-----	8	215	
Shale, dark-----	12	227	
Shale, sandy, dark-----	13	240	
Slate-----	6	246	
Shale, sandy-----	4	250	
Sandstone-----	22	272	
Shale, dark-----	30	302	
Limestone-----	2	304	
Shale, gray-----	30	334	
Slate and coal-----	6	340	
Shale, light-----	19	359	
Limestone-----	1	360	
Shale, gray-----	10	370	
Limestone-----	5	375	
Shale, dark-----	3	378	T. D. 800 ft.

Well 7/9W-5J1

Type of record: Driller's log.

Altitude: About 500 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	18	18	
Hardpan-----	6	24	

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

Well 7/9W-5J1--Continued

Material	Thick-ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Limestone, shelly-----	2	26	
Shale, sandy-----	19	45	
Sandstone, white-----	55	100	W. B.
Limestone, hard-----	8	108	
Shale, dark-----	4	112	
Limestone, sandy-----	7	119	
Shale, sandy-----	17	136	
Coal-----	2	138	
Shale, sandy-----	14	152	W. B.

Well 7/9W-5J2

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

Record missing-----	20	20	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	10	30	
Limestone, hard-----	3	33	
Shale, sandy-----	11	44	
Sandstone-----	62	106	W. B.
Limestone, hard-----	5	111	
Shale, dark-----	9	120	
Sandstone-----	15	135	
Shale, dark-----	5	140	
Slate and coal-----	5	145	W. B.
Sandstone-----	35	180	W. B.

Well 7/9W-5P1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	17	17	
Mud, gray, and sand-----	21	38	
Mud, green-----	21	59	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	3	62	
Shale, sandy-----	7	69	W. B.
Limestone, hard-----	15	84	
Shale, dark-----	6	90	

Well 7/9W-5Q1

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

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

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

Well 7/9W-5Q1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Shale, yellow-----	16	33	Clay (?)
Pennsylvanian system:			
Middle series:			
Shale, dark-----	3	36	
Shale, gray-----	6	42	
Sandstone-----	71	113	W. B.
Shale, light-----	2	115	

Well 7/9W-6C1

Type of record: Driller's log.

Altitude: About 542 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	25	25	
Pennsylvanian system:			
Middle (?) series:			
Shale-----	10	35	
Limestone-----	3	38	
Shale-----	14	52	
Shale, sandy-----	28	80	
Limestone, broken-----	25	105	
Limestone, brown-----	5	110	W. B.
Sandstone-----	49	159	
Shale-----	7	166	
Limestone, brown-----	5	171	
Shale, red-----	4	175	
Shale-----	6	181	
Sandstone-----	3	184	
Limestone, gray-----	16	200	T. D. 800 ft.

Well 7/9W-6Q1

Type of record: Driller's log.

Altitude: About 536 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	20	20	
Pennsylvanian system:			
Middle (?) series:			
Shale-----	5	25	
Sandstone-----	5	30	
Shale-----	30	60	
Coal-----	2	62	
Shale, gray-----	3	65	
Limestone-----	4	69	
Shale-----	16	85	
Sandstone-----	48	133	W. B.
Shale-----	15	148	

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

Well 7/9W-6Q1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Limestone-----	5	153	
Shale-----	3	156	
Red rock-----	2	158	
Shale-----	118	276	
Coal-----	3	279	Gas
Shale-----	33	312	
Coal-----	2	314	Gas
Shale-----	93	407	
Sandstone-----	48	455	W. B., gas; T. D. 827 ft.

Well 7/9W-7C1

Type of record: Driller's log.

Altitude: About 530 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	30	30	
Pennsylvanian system:			
Middle (?) series:			
Shale-----	16	46	
Coal-----	2	48	
Shale-----	29	77	
Sandstone-----	55	132	W. B.
Shale-----	5	137	
Limestone-----	4	141	
Red rock-----	1	142	
Shale-----	82	224	
Coal-----	3	227	
Shale-----	35	262	
Coal-----	3	265	
Shale-----	125	390	
Coal-----	3	393	Gas
Shale-----	7	400	
Sandstone-----	60	460	Gas; T. D. 1,194 ft.

Well 7/9W-8K1

Type of record: Driller's log.

Altitude: About 485 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay and gravel-----	25	25	
Mud, gray-----	15	40	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	46	86	
Coal-----	1	87	
Shale, gray-----	18	105	

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

Well 7/9W-8K1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Limestone-----	5	110	
Shale, gray-----	3	113	
Red rock-----	4	117	
Shale, gray-----	2	119	
Limestone-----	2	121	
Sandstone-----	4	125	
Shale-----	10	135	
Limestone-----	2	137	
Shale-----	10	147	
Sandstone-----	13	160	
Shale-----	35	195	
Coal-----	5	200	
Shale-----	33	233	
Coal and black slate-----	10	243	
Shale-----	27	270	
Coal-----	3	273	Gas
Slate, black-----	3	276	
Limestone-----	9	285	
Coal-----	3	288	Gas
Shale-----	12	300	
Sandstone-----	15	315	
Shale-----	60	375	
Slate, black, and coal-----	6	381	Gas
Sandstone-----	59	440	Show of oil; T. D. 806 ft.

Well 7/9W-8P1

Type of record: Driller's log.

Altitude: About 480 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	15	15	
Hardpan-----	35	50	
Pennsylvanian system:			
Middle series:			
Shale, soft-----	10	60	
Shale, gray-----	5	65	
Shale, sandy-----	13	78	
Sandstone-----	25	103	W. B.
Shale, gray-----	5	108	

Well 7/9W-8R1

Type of record: Driller's log.

Altitude: About 480 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay and soil-----	25	25	

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

Well 7/9W-8R1--Continued

Material	Thick-ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, light-----	9	34	W. B.
Sandstone-----	8	42	
Shale, dark-----	28	70	

Well 7/9W-9A1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay and sand-----	20	20	
Hardpan, gray-----	7	27	
Pennsylvanian system:			
Middle series:			
Shale-----	4	31	W. B.
Limestone-----	5	36	
Red rock and muddy shale-----	9	45	W. B.
Shale, dark-----	35	80	
Sandstone, dark-----	40	120	
Shale, dark-----	6	126	
Coal-----	2	128	

Well 7/9W-9F1

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

Record missing-----	52	52	
Pennsylvanian system:			
Middle series:			
Limestone-----	1	53	
Shale-----	15	68	
Limestone-----	1	69	
Shale-----	2	71	
Limestone-----	4	75	
Shale-----	10	85	
Limestone-----	3	88	
Shale-----	12	100	
Coal-----	11	111	
Shale, sandy-----	34	145	
Slate-----	3	148	
Shale, sandy-----	18	166	
Coal-----	3	169	
Shale, sandy-----	27	196	
Slate-----	12	208	
Coal-----	7	215	
Shale, gray-----	28	243	
Slate-----	3	246	
Coal-----	2	248	
Shale-----	34	282	

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

Well 7/9W-9F1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Slate-----	3	285	
Coal-----	4	289	
Shale-----	18	307	

Well 7/9W-9H1

Type of record: Driller's log.		Altitude: About 500 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	30	30	
Coal-----	1	31	
Hardpan-----	23	54	
Pennsylvanian system:			
Middle series:			
Limestone-----	1	55	
Shale, gray-----	1	56	
Limestone-----	4	60	
Red rock-----	8	68	
Limestone, sandy-----	6	74	

Well 7/9W-10D1

Type of record: Driller's log.		Altitude: About 480 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	15	15	
Hardpan and gravel-----	13	28	
Pennsylvanian system:			
Middle series:			
Limestone-----	1	29	
Shale-----	2	31	
Limestone-----	5	36	
Shale, gray-----	19	55	
Shale, dark-----	5	60	
Shale, gray-----	8	68	

Well 7/9W-10M1

Type of record: Driller's log.		Altitude: About 480 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	18	18	
Hardpan-----	12	30	
Shale-----	10	40	Clay (?)
Hardpan-----	35	75	

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

Well 7/9W-10M1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale-----	5	80	
Coal-----	1	81	
Shale, sandy-----	31	112	
Shale, dark-----	24	136	
Coal-----	4	140	
Fire clay-----	4	144	
Shale, gray-----	14	158	
Sandstone-----	17	175	
Slate, dark-----	3	178	
Coal-----	9	187	
Shale-----	11	198	
Coal-----	2	200	W. B.
Shale, gray-----	24	224	
Limestone-----	6	230	
Shale, dark-----	40	270	
Slate, black-----	3	273	
Coal-----	7	280	

Well 7/9W-10N1

Type of record: Driller's log.

Altitude: About 465 feet.

Record missing-----	24	24	
Quaternary system:			
Recent and Pleistocene series:			
Hardpan-----	32	58	
Pennsylvanian system:			
Middle series:			
Shale, light-----	7	65	
Slate, gray-----	15	80	
Sandstone, dark-----	10	90	W. B.
Shale, sandy-----	15	105	
Shale, dark-----	5	110	
Coal-----	2	112	
Fire clay-----	3	115	
Shale, dark-----	10	125	
Limestone, hard-----	5	130	W. B.
Shale, light-----	3	133	
Shale, sandy-----	7	140	
Shale, dark-----	14	154	
Coal-----	--	154	

Well 7/9W-14A1

Type of record: Driller's log.

Altitude: About 530 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	16	16	
Hardpan-----	9	25	

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

Well 7/9W-14A1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	5	30	
Slate, dark-----	9	39	
Coal-----	2	41	
Shale, gray-----	7	48	
Shale, sandy-----	26	74	
Shale, sandy-----	21	95	W. B.
Shale, dark-----	8	103	
Coal-----	5	108	
Fire clay-----	4	112	
Shale, dark-----	10	122	
Shale, sandy-----	6	128	
Slate, dark-----	14	142	
Coal-----	6	148	W. B.
Slate, dark-----	5	153	
Shale, gray-----	6	159	
Limestone, broken-----	4	163	

Well 7/9W-14J1

Type of record: Driller's log.

Altitude: About 515 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	12	12	
Hardpan-----	14	26	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	16	42	W. B.
Limestone-----	2	44	
Shale-----	2	46	
Limestone-----	2	48	
Red rock-----	2	50	
Shale, limy, broken-----	15	65	
Shale, dark-----	37	102	W. B.
Sandstone-----	33	135	
Slate, dark-----	3	138	
Coal-----	3	141	
Fire clay-----	7	148	
Limestone-----	3	151	
Sandstone-----	11	162	
Shale, light-----	5	167	

Well 7/9W-15M1

Type of record: Driller's log.

Altitude: About 450 feet.

Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	6	6	

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

Well 7/9W-15M1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, runny-----	10	16	
Clay-----	9	25	
Pennsylvanian system:			
Middle series:			
Sandstone-----	55	80	
Shale, gray-----	2	82	
Limestone-----	3	85	
Shale, sandy, gray-----	9	94	
Limestone-----	1	95	
Shale, sandy, gray-----	86	181	
Coal-----	2	183	
Shale, gray-----	7	190	
Limestone-----	3	193	
Sandstone-----	27	220	W. B.
Slate, black, and coal-----	5	225	
Shale, gray-----	5	230	
Sandstone-----	20	250	
Shale, sandy, gray-----	38	288	
Limestone-----	2	290	
Slate, black, and coal-----	6	296	
Shale, gray-----	41	337	
Sandstone-----	13	350	
Shale, sandy, gray-----	25	375	
Sandstone-----	10	385	
Shale, gray-----	15	400	T. D. 815 ft.

Well 7/9W-16B1

Type of record: Driller's log.

Altitude: About 460 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	15	15	
Hardpan-----	13	28	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	16	44	
Limestone, hard-----	1	45	
Shale, gray-----	2	47	
Limestone, hard-----	5	52	
Red rock-----	8	60	
Limestone, hard-----	1	61	
Shale, sandy-----	20	81	
Slate and coal-----	4	85	
Shale, sandy, dark-----	15	100	
Shale, dark-----	10	110	
Shale, sandy, dark-----	20	130	
Slate, dark-----	8	138	

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

Well 7/9W-16B1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	4	142	W. B
Shale, gray-----	8	150	
Limestone, hard-----	1	151	
Sandstone-----	4	155	
Shale, dark-----	17	172	
Shale, gray-----	7	179	
Coal-----	7	186	
Fire clay-----	4	190	
Shale, dark-----	12	202	
Limestone, hard-----	4	206	
Shale, gray-----	13	219	
Slate, dark-----	2	221	
Coal-----	2	223	
Limestone, hard-----	5	228	
Slate, dark-----	2	230	

Well 7/9W-16B2

Type of record: Driller's log.

Altitude: About 470 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	22	22	
Hardpan-----	18	40	
Pennsylvanian system:			
Middle series:			
Shale, soft-----	25	65	W. B., gas.
Limestone-----	1	66	
Shale-----	3	69	
Limestone, hard-----	6	75	
Shale; trace of red rock-----	12	87	
Limestone, sandy-----	8	95	
Shale, sandy, broken-----	15	110	
Shale, dark-----	6	116	
Limestone-----	2	118	
Shale, sandy-----	21	139	
Shale, dark-----	33	172	
Coal-----	3	175	
Fire clay-----	3	178	
Shale, gray-----	7	185	
Sandstone, gray-----	10	195	
Shale, light-----	10	205	
Shale, dark-----	5	210	
Slate, black-----	3	213	
Coal-----	4	217	

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

Well 7/9W-16D1

Type of record: Driller's log.

Altitude: About 480 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	16	16	
Hardpan-----	6	22	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	6	28	
Coal, trace-----	--	28	
Shale, gray-----	56	84	
Sandstone-----	18	102	
Shale, light-gray-----	3	105	

Well 7/9W-18D1

Type of record: Driller's log.

Altitude: About 520 feet.

Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	18	18	
Pennsylvanian system:			
Middle (?) series:			
Sandstone, red-----	7	25	
Shale, light-----	20	45	
Shale, dark-----	15	60	
Slate, broken-----	15	75	
Shale, dark-----	14	89	
Limestone, hard-----	4	93	
Coal-----	1	94	
Shale, light-----	11	105	
Limestone, sandy-----	20	125	
Shale, dark-----	25	150	
Coal-----	1	151	
Fire clay-----	4	155	
Shale, light-----	15	170	
Limestone, hard-----	5	175	
Red rock-----	5	180	
Shale, light-----	5	185	
Limestone, hard-----	4	189	
Shale, light-----	4	193	
Limestone, broken-----	12	205	
Shale, dark-----	10	215	
Sandstone, dark-----	30	245	
Shale, dark-----	17	262	

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

Well 7/9W-20J1

Type of record: Driller's log.

Altitude: About 460 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	18	18	
Hardpan-----	12	30	
Shale, soft-----	47	77	Clay (?)
Hardpan-----	11	88	
Sand and gravel-----	6	94	W. B.

Well 7/9W-21F1

Type of record: Driller's log.

Altitude: About 450 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	18	18	
Mud, gravelly-----	42	60	
Clay, yellow-----	9	69	
Pennsylvanian system:			
Middle series:			
Limestone, hard-----	6	75	
Shale, soft, dark-gray-----	10	85	
Shale, pink, and soft red rock---	10	95	
Shale, sandy-----	75	170	
Coal-----	2	172	
Shale-----	10	182	
Sandstone, limy-----	120	302	Gas 208 to 215 ft.
Coal-----	6	308	

Well 7/9W-21P1

Type of record: Driller's log.

Altitude: About 450 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	18	18	
Mud, blue-----	55	73	
Quicksand-----	12	85	
Sand and red rock-----	2	87	
Gravel, coarse-----	3	90	W. B.

Well 7/9W-22Q1

Type of record: Driller's log.

Altitude: About 465 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface and yellow clay-----	15	15	
Pennsylvanian system:			
Middle series:			
Sandstone-----	33	48	W. B.
Limestone, brown-----	2	50	
Shale, light-----	3	53	

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

Well 7/9W-2201--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Limestone, hard-----	2	55	
Shale, soft-----	5	60	
Shale, dark-----	6	66	
Limestone-----	3	69	
Shale, sandy-----	13	82	
Sandstone, brown-----	9	91	W. B.
Limestone, hard-----	2	93	
Shale, dark-----	4	97	

Well 7/9W-2202

Type of record: Driller's log.

Altitude: About 415 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay and sand-----	17	17	
Pennsylvanian system:			
Middle series:			
Sandstone, yellow-----	8	25	
Sandstone, gray-----	8	33	W. B.
Shale-----	2	35	
Sandstone-----	7	42	W. B.
Limestone-----	1	43	

Well 7/9W-23E1

Type of record: Driller's log.

Altitude: About 455 feet.

Record missing-----	146	146	
Pennsylvanian system:			
Middle series:			
Coal and fire clay-----	14	160	
Limestone, hard-----	4	164	
Sandstone-----	21	185	W. B.
Shale, dark-----	24	209	
Limestone, hard-----	2	211	
Shale, dark-----	2	213	
Coal-----	3	216	
Shale, dark-----	11	227	
Shale, gray-----	16	243	
Sandstone-----	13	256	W. B.
Shale, dark-----	18	274	
Sandstone, white-----	20	294	W. B.
Shale, dark-----	8	302	
Slate, black-----	2	304	
Limestone, hard-----	3	307	
Coal-----	2	309	
Shale, dark-----	2	311	
Fire clay-----	4	315	

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

Well 7/9W-23K1

Type of record: Driller's log.

Altitude: About 472 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	34	34	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	41	75	
Shale, dark-----	25	100	
Shale, sandy-----	46	146	W. B.
Coal-----	2	148	
Shale, gray-----	26	174	
Sandstone-----	11	185	
Shale, sandy, dark-----	29	214	
Coal-----	2	216	
Shale, sandy, gray-----	44	260	
Sandstone, broken-----	15	275	W. B.
Shale, dark-----	17	292	
Limestone-----	5	297	
Shale-----	23	320	
Sandstone-----	65	385	T. D. 1,207 ft.

Well 7/9W-23L1

Type of record: Driller's log.

Altitude: About 465 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Sand-----	7	25	
Pennsylvanian system:			
Middle series:			
Sandstone-----	45	70	
Shale, black-----	5	75	
Fire clay-----	10	85	
Sandstone-----	50	135	
Coal-----	3	138	
Fire clay-----	12	150	
Shale, gray-----	25	175	
Sandstone-----	19	194	W. B.
Limestone-----	3	197	
Shale, dark-----	3	200	
Limestone-----	6	206	
Coal-----	2	208	
Limestone-----	32	240	
Sandstone-----	23	263	
Shale, gray-----	9	272	
Limestone, hard, dark-----	4	276	
Slate, dark-----	5	281	
Shale, gray-----	39	320	
Sandstone, soft, white-----	35	355	

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

Well 7/9W-23L1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, dark-----	34	389	
Coal-----	2	391	
Sandstone-----	9	400	T. D. 1,216 ft.

Well 7/9W-25E1			
Type of record: Driller's log.		Altitude: About 540 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	18	18	
Pennsylvanian system:			
Middle series:			
Sandstone-----	42	60	W. B.
Limestone-----	3	63	
Fire clay-----	4	67	
Sandstone-----	7	74	W. B.
Fire clay-----	4	78	

Well 7/9W-26E1			
Type of record: Driller's log.		Altitude: About 510 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	17	17	
Pennsylvanian system:			
Middle series:			
Sandstone-----	49	66	W. B.
Shale, dark-----	8	74	
Limestone, hard-----	3	77	
Shale, dark-----	1	78	

Well 7/9W-26E2			
Type of record: Driller's log.		Altitude: About 515 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	20	20	
Pennsylvanian system:			
Middle series:			
Sandstone-----	42	62	W. B.
Shale, sandy-----	10	72	

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

Well 7/9W-26G1

Type of record: Driller's log.

Altitude: About 510 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	19	19	
Pennsylvanian system:			
Middle (?) series:			
Sandstone-----	18	37	
Shale, gray-----	11	48	
Limestone, hard-----	3	51	
Shale, gray-----	4	55	
Red rock, cavey-----	4	59	
Limestone, hard-----	3	62	
Shale, sandy-----	6	68	
Shale, dark-----	12	80	
Sandstone-----	32	112	
Shale, sandy-----	19	131	

Well 7/9W-26N1

Type of record: Driller's log.

Altitude: About 495 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface and muddy clay-----	17	17	
Pennsylvanian system:			
Middle series:			
Shale-----	10	27	
Sandstone, hard-----	16	43	
Sandstone, white-----	8	51	

Well 7/9W-27D1

Type of record: Driller's log.

Altitude: About 450 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	17	17	
Pennsylvanian system:			
Middle series:			
Sandstone, dark-----	5	22	
Sandstone, white-----	33	55	W. B.
Shale, dark-----	4	59	
Limestone, hard-----	2	61	
Fire clay-----	6	67	

Well 7/9W-27H1

Type of record: Driller's log.

Altitude: About 485 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	15	15	
Hardpan-----	13	28	

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

Well 7/9W-27H1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Sandstone-----	19	47	
Sandstone, dark-----	6	53	
Limestone, hard-----	2	55	
Shale, dark-----	3	58	
Limestone, hard-----	2	60	
Shale, dark-----	2	62	

Well 7/9W-27L1

Type of record: Driller's log.

Altitude: About 480 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	18	18	
Pennsylvanian system:			
Middle series:			
Sandstone-----	9	27	
Muck, blue-----	3	30	
Sandstone-----	14	44	W. B.
Shale, blue-----	1	45	
Sandstone-----	7	52	W. B.
Coal-----	1	53	
Fire clay-----	1	54	
Sandstone, white-----	24	78	W. B.
Limestone, hard-----	3	81	
Shale, dark-----	15	96	
Shale, gray-----	8	104	
Shale, dark-----	9	113	
Shale, sandy-----	13	126	
Limestone, hard-----	3	129	
Sandstone-----	13	142	W. B.
Shale, sandy-----	10	152	

Well 7/9W-27R1

Type of record: Driller's log.

Altitude: About 500 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	18	18	
Pennsylvanian system:			
Middle series:			
Sandstone-----	9	27	
Muck, blue-----	3	30	
Sandstone-----	14	44	W. B.
Shale, blue-----	1	45	
Sandstone-----	7	52	W. B.
Coal-----	1	53	
Fire clay-----	1	54	
Sandstone, white-----	26	80	W. B.

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

Well 7/9W-28N1

Type of record: Driller's log.

Altitude: About 450 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Record missing-----	55	55	
Quaternary system:			
Recent and Pleistocene series:			
Quicksand and gravel-----	25	80	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	9	89	
Sandstone-----	17	106	W. B.

Well 7/9W-30G1

Type of record: Driller's log.

Altitude: About 480 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and sand-----	18	18	
Shale, soft, blue-----	6	24	Clay (?)
Hardpan-----	50	74	
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	14	88	
Sandstone-----	20	108	W. B.
Shale, dark-----	9	117	
Red rock-----	3	120	
Shale, gray-----	7	127	
Limestone, hard-----	5	132	W. B.
Shale, gray-----	5	137	
Sandstone, broken-----	13	150	

Well 7/9W-33C1

Type of record: Driller's log.

Altitude: About 460 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	34	34	
Pennsylvanian system:			
Middle (?) series:			
Sandstone-----	26	60	W. B.
Limestone-----	1	61	
Shale, dark-----	7	68	
Limestone, broken-----	7	75	
Shale, light-----	12	87	
Slate, gray-----	3	90	
Limestone, sandy-----	8	98	
Sandstone-----	26	124	W. B.
Shale, gray-----	15	139	

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

Well 7/9W-34E1

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 clay-----	10	10	
Gravel and sand-----	10	20	
Mud, yellow-----	12	32	
Pennsylvanian system:			
Middle series:			
Sandstone-----	50	82	
Sandstone, broken-----	2	84	
Limestone, broken-----	6	90	
Shale-----	50	140	
Shale, sandy-----	35	175	
Coal-----	2	177	
Shale, gray-----	5	182	
Sandstone-----	18	200	
Shale, gray-----	12	212	
Coal and black slate-----	6	218	
Shale, sandy-----	8	226	
Limestone-----	2	228	
Shale-----	21	249	
Coal-----	5	254	
Shale, green-----	2	256	
Sandstone-----	11	267	
Shale-----	38	305	
Sandstone-----	45	350	
Sandstone, broken-----	23	373	T. D. 1,284 ft.

Well 7/9W-35A1

Type of record: Driller's log.

Altitude: About 495 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	25	25	
Gravel-----	7	32	
Pennsylvanian system:			
Middle series:			
Sandstone-----	37	69	W. B.
Limestone, hard-----	3	72	
Shale, dark-----	27	99	
Slate, gray-----	3	102	
Coal-----	1	103	W. B.
Shale, dark-----	9	112	
Shale, sandy-----	13	125	

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

Well 7/9W-35D1

Type of record: Driller's log.

Altitude: About 490 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	19	19	
Mud, soft, and sand-----	16	35	
Pennsylvanian system:			
Middle series:			
Sandstone, white-----	40	75	W. B.
Shale-----	5	80	

Well 7/10W-1D1

Type of record: Driller's log.

Altitude: About 530 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	10	10	
Sand-----	10	20	
Pennsylvanian system:			
Middle (?) series:			
Shale, white-----	10	30	
Shale, dark-----	15	45	
Limestone-----	2	47	
Shale, gray-----	8	55	
Limestone-----	2	57	
Shale, gray-----	33	90	
Shale, black-----	5	95	
Shale, gray-----	15	110	
Sandstone, gray-----	28	138	
Shale, gray-----	2	140	
Sandstone, gray-----	35	175	
Limestone-----	1	176	
Shale, gray-----	4	180	
Limestone, gray-----	5	185	
Mud, red-----	8	193	
Limestone, gray-----	2	195	
Shale-----	20	215	
Coal-----	3	218	
Shale, gray-----	52	270	
Coal-----	1	271	
Limestone-----	9	280	
Shale, gray-----	72	352	
Coal-----	4	356	
Shale, gray-----	10	366	
Coal-----	5	371	T. D. 802 ft.

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

Well 7/10W-2C1

Type of record: Driller's log.

Altitude: About 530 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	18	18	
Pennsylvanian system:			
Middle (?) series:			
Shale-----	25	43	
Coal-----	1	44	
Fire clay-----	3	47	
Sandstone-----	10	57	
Shale, dark-----	19	76	
Limestone-----	2	78	
Shale, dark-----	16	94	
Shale, sandy-----	29	123	
Coal-----	1	124	W. B.
Fire clay-----	4	128	
Limestone-----	2	130	
Shale, sandy-----	17	147	
Sandstone-----	37	184	

Well 7/10W-2F1

Type of record: Driller's log.

Altitude: About 528 feet.

Quaternary system:			
Recent and Pleistocene series:			
Drift-----	40	40	
Pennsylvanian system:			
Middle (?) series:			
Shale, dark-----	5	45	
Coal-----	2	47	
Shale-----	5	52	
Limestone, brown-----	2	54	
Sandstone, hard-----	6	60	
Shale, dark-----	13	73	
Coal-----	1	74	
Shale, dark-----	7	81	
Limestone, brown-----	2	83	
Shale, sandy, gray-----	20	103	
Sandstone-----	7	110	
Coal-----	1	111	
Sandstone-----	96	207	
Limestone, gray-----	2	209	
Limestone, hard, brown-----	9	218	
Red rock-----	7	225	
Shale, sandy-----	78	303	
Coal-----	2	305	
Shale, sandy-----	47	352	
Coal-----	2	354	
Shale, black-----	16	370	

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

Well 7/10W-2F1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	21	391	
Limestone-----	4	395	
Coal-----	2	397	T. D. 1,725 ft.

Well 7/10W-2K1

Type of record: Driller's log.

Altitude: About 531 feet.

Quaternary system:			
Recent and Pleistocene series:			
Drift-----	40	40	
Pennsylvanian system:			
Middle series:			
Redrock-----	10	50	
Shale, dark-----	5	55	
Limestone, hard, brown-----	2	57	
Shale, gray-----	36	93	
Coal-----	1	94	
Shale-----	15	109	
Limestone-----	1	110	
Coal-----	1	111	
Shale-----	13	124	
Sandstone-----	63	187	W. B.
Limestone, gray-----	2	189	
Shale, gray-----	2	191	
Limestone, hard, brown-----	4	195	
Red rock-----	10	205	
Limestone, sandy-----	6	211	
Shale, sandy-----	9	220	
Sandstone, broken-----	26	246	
Shale, sandy, dark-----	31	277	
Coal-----	2	279	
Shale, sandy, gray-----	36	315	
Shale, dark-----	11	326	
Coal-----	2	328	Gas
Shale, dark-----	14	342	
Limestone, brown-----	4	346	
Shale, gray-----	18	364	
Coal-----	2	366	
Shale-----	2	368	
Limestone, brown-----	4	372	
Coal-----	7	379	
Shale-----	7	386	
Limestone-----	3	389	T. D. 2,659 ft.

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

		Well 7/10W-2L1		
Type of record: Driller's log.				Altitude: About 519 feet.
Material	Thick- ness (feet)	Depth (feet)	Remarks	
Quaternary system:				
Recent and Pleistocene series:				
Drift-----	20	20		
Pennsylvanian system:				
Middle series:				
Shale, dark-----	7	27		
Coal-----	1	28		
Shale, gray-----	30	58		
Limestone, hard, brown-----	4	62		
Shale, gray-----	38	100		
Coal-----	2	102		
Shale, gray-----	23	125		
Sandstone-----	60	185	W. B.	
Shale, muddy, gray-----	8	193		
Limestone, hard, brown-----	4	197		
Red rock-----	8	205		
Shale-----	32	237		
Sandstone, hard-----	33	270		
Shale, dark-----	19	289		
Coal-----	2	291		
Shale, muddy, gray-----	5	296		
Shale, sandy-----	34	330		
Shale, black-----	5	335		
Coal-----	2	337	Gas	
Shale, dark-----	14	351		
Limestone, brown-----	4	355		
Shale, sandy, gray-----	16	371		
Sandstone-----	4	375		
Coal-----	1	376	Gas	
Shale, sandy, dark-----	5	381		
Limestone, hard, brown-----	4	385		
Coal-----	2	387	Gas	
Shale, sandy-----	9	396	T. D. 2,709 ft.	

		Well 7/10W-2N1		
Type of record: Driller's log.				Altitude: About 519 feet.
Quaternary system:				
Recent and Pleistocene series:				
Drift-----	26	26		
Pennsylvanian system:				
Middle series:				
Shale, dark-----	44	70		
Limestone-----	3	73		
Shale, sandy-----	39	112		
Coal-----	2	114		
Shale, sandy-----	41	155		
Sandstone-----	39	194		

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

Well 7/10W-2N1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	5	199	
Limestone, hard, brown-----	7	206	
Shale, muddy, gray-----	8	214	
Shale, sandy-----	43	257	
Sandstone-----	18	275	
Shale, dark-----	24	299	
Coal-----	2	301	
Shale, muddy-----	42	343	
Coal-----	3	346	
Shale, dark-----	14	360	
Shale, sandy, gray-----	10	370	T. D. 841 ft.

Well 7/10W-2P1

Type of record: Driller's log.

Altitude: About 522 feet.

Quaternary system:			
Recent and Pleistocene series:			
Drift-----	20	20	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	75	95	
Coal-----	1	96	
Shale-----	10	106	
Limestone, brown-----	2	108	
Shale-----	6	114	
Sandstone-----	64	178	W. B.
Shale, gray-----	3	181	
Limestone-----	1	182	
Shale-----	1	183	
Limestone, hard, brown-----	4	187	
Shale-----	7	194	
Shale, sandy-----	30	224	
Sandstone, hard-----	36	260	
Shale-----	14	274	
Coal-----	2	276	
Shale, sandy-----	9	285	
Sandstone, hard-----	20	305	
Shale-----	14	319	
Coal-----	2	321	
Shale-----	15	336	
Limestone, brown-----	3	339	
Shale-----	18	357	
Coal-----	2	359	Gas
Shale-----	6	365	
Limestone, hard, brown-----	3	368	
Shale, dark-----	4	372	
Coal-----	1	373	Gas; T. D. 1,335 ft.

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

Well 7/10W-2P1

Type of record: Driller's log.

Altitude: About 522 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Drift-----	20	20	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	75	95	
Coal-----	1	96	
Shale-----	10	106	
Limestone, brown-----	2	108	
Shale-----	6	114	
Sandstone-----	64	178	W. B.
Shale, gray-----	3	181	
Limestone-----	1	182	
Shale-----	1	183	
Limestone, hard, brown-----	4	187	
Shale-----	7	194	
Shale, sandy-----	30	224	
Sandstone, hard-----	36	260	
Shale-----	14	274	
Coal-----	2	276	
Shale, sandy-----	9	285	
Sandstone, hard-----	20	305	
Shale-----	14	319	
Coal-----	2	321	
Shale-----	15	336	
Limestone, brown-----	3	339	
Shale-----	18	357	
Coal-----	2	359	Gas
Shale-----	6	365	
Limestone, hard, brown-----	3	368	
Shale, dark-----	4	372	
Coal-----	1	373	Gas; T. D. 1,335 ft.

Well 7/10W-3D1

Type of record: Driller's log.

Altitude: About 470 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	20	20	
Gravel-----	7	27	
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	75	102	
Shale, black-----	5	107	
Shale, sandy, gray-----	33	140	
Sandstone, gray-----	56	196	
Limestone-----	5	201	
Red rock-----	8	209	

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

Well 7/10W-3D1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Limestone-----	2	211	
Shale, gray-----	21	232	
Coal-----	2	234	
Shale, gray-----	54	288	
Coal-----	2	290	
Shale, gray-----	6	296	
Limestone, hard-----	4	300	
Sandstone-----	6	306	
Shale, gray-----	31	337	
Coal-----	5	342	
Shale, gray-----	25	374	
Coal-----	3	377	
Shale, gray-----	13	390	
Limestone, hard-----	4	394	T. D. 800 ft.

Well 7/10W-4A1

Type of record: Driller's log.

Altitude: About 490 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay and mud-----	24	24	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	6	30	
Sandstone-----	8	38	W. B.
Shale, gray-----	30	68	
Slate, dark-----	8	76	
Limestone, hard-----	4	80	
Sandstone-----	38	118	W. B.
Shale, dark-----	9	127	

Well 7/10W-4J1

Type of record: Driller's log.

Altitude: About 490 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	18	18	
Hardpan-----	42	60	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	30	90	
Shale, dark-----	14	104	
Limestone-----	1	105	
Sandstone-----	15	120	W. B.

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

Well 7/10W-4R2

Type of record: Driller's log.

Altitude: About 488 feet.

Material	Thick ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	17	17	
Gravel-----	3	20	
Hardpan-----	27	47	
Clay, sandy, green-----	13	60	W. B.
Pennsylvanian system:			
Middle (?) series:			
Shale, sandy-----	27	87	
Slate-----	7	94	
Sandstone-----	15	109	
Limestone-----	6	115	
Sandstone-----	56	171	
Shale, gray-----	18	189	
Limestone-----	6	195	
Shale, green-----	3	198	
Shale, gray-----	2	200	
Red rock-----	3	203	
Limestone, sandy-----	7	210	
Shale, gray-----	23	233	
Limestone-----	7	240	
Limestone, sandy-----	27	267	
Shale, gray-----	11	278	
Coal-----	3	281	
Sandstone-----	8	289	
Limestone-----	5	294	
Shale (?), sandy-----	28	322	
Slate, black-----	6	328	
Sandstone-----	1	329	
Coal-----	3	332	
Slate, black-----	3	335	
Shale, gray-----	32	367	
Coal-----	3	370	
Shale, dark-----	13	383	
Shale, sandy-----	5	388	
Sandstone-----	5	393	Gas; T. D. 840 ft.

Well 7/10W-5J1

Type of record: Driller's log.

Altitude: About 482 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	20	20	
Clay, sandy-----	12	32	
Pennsylvanian system:			
Middle (?) series:			
Shale-----	53	85	
Sandstone-----	10	95	W. B.
Shale-----	10	105	

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

Well 7/10W-5J1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Sandstone-----	15	120	
Shale-----	20	140	
Shale, gray-----	34	174	
Sandstone-----	10	184	
Coal-----	1	185	
Shale, gray-----	4	189	
Sandstone-----	2	191	
Shale-----	12	203	
Shale, dark-----	6	209	
Red rock and green shale-----	9	218	
Shale, sandy, gray-----	47	265	
Shale, gray-----	41	306	
Limestone, gray-----	5	311	
Shale, sandy-----	31	342	
Coal-----	3	345	
Shale, gray-----	31	376	
Coal-----	2	378	
Shale, dark-----	18	396	
Coal-----	2	398	T. D. 1,779 ft.

Well 7/10W-6H1

Type of record: Driller's log.

Altitude: About 525 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand, yellow-----	25	25	
Quicksand-----	15	40	W. B.
Pennsylvanian system:			
Middle series:			
Shale, soft-----	8	48	
Shale, dark-----	28	76	
Coal and black slate-----	2	78	W. B.
Fire clay-----	3	81	
Shale, dark-----	9	90	
Shale, sandy-----	28	118	
Sandstone, light-----	8	126	W. B.
Shale, dark-----	5	131	

Well 7/10W-6H2

Type of record: Driller's log.

Altitude: About 530 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand, red-----	20	20	
Mud, blue-----	10	30	
Mud, red, and gravel-----	12	42	
Gravel-----	4	46	W. B.
Mud, blue-----	1	47	

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

Well 7/10W-6K1

Type of record: Driller's log.

Altitude: About 540 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand, red-----	15	15	W. B.
Quicksand, white-----	15	30	
Pennsylvanian system:			
Middle series:			
Shale, soft-----	20	50	W. B.
Shale, gray-----	10	60	
Slate, dark, and coal-----	8	68	
Shale, dark-----	17	85	
Slate, coal-----	4	89	
Shale, sandy-----	26	115	
Slate, dark-----	4	119	
Coal-----	3	122	
Shale, sandy-----	16	138	
Shale, dark-----	12	150	

Well 7/10W-6L1

Type of record: Driller's log.

Altitude: About 530 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand, red-----	20	20	W. B.
Clay, dark-----	8	28	
Hardpan and boulders-----	15	43	
Pennsylvanian system:			
Middle series:			
Limestone, hard-----	2	45	W. B.
Slate, black, and coal-----	6	51	
Fire clay-----	3	54	
Shale, gray-----	36	90	
Slate, black-----	4	94	
Coal-----	3	97	
Shale, gray-----	6	103	
Limestone, brown-----	3	106	
Shale, sandy-----	12	118	

Well 7/10W-6L2

Type of record: Driller's log.

Altitude: About 490 feet.

Quaternary system:				
Recent and Pleistocene series:				
Soil, sandy, and clay-----	12	12	W. B.	
Pennsylvanian system:				
Middle (?) series:				
Shale, gray-----	64	76	W. B.	
Coal-----	5	81		
Shale-----	5	86		

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

Well 7/10W-6L2--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Sandstone-----	6	92	
Shale-----	65	157	
Slate, black-----	5	162	
Shale-----	33	195	
Sandstone-----	55	250	
Limestone-----	3	253	
Shale-----	7	260	
Red rock-----	3	263	
Shale, gray-----	80	343	
Coal-----	3	346	
Shale-----	14	360	
Limestone-----	1	361	
Shale-----	25	386	
Coal-----	4	390	
Limestone-----	1	391	
Shale-----	12	403	T. D. 872 ft.

Well 7/10W-7G1

Type of record: Driller's log.

Altitude: About 535 feet.

Quaternary system:			
Recent and Pleistocene series:			
Fill and clay-----	25	25	
Hardpan-----	6	31	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	7	38	
Shale, dark-----	23	61	
Slate and coal-----	4	65	
Fire clay-----	2	67	
Shale, gray-----	27	94	
Coal-----	3	97	W. B.
Fire clay-----	3	100	
Limestone, hard-----	3	103	
Shale, gray-----	32	135	
Sandstone-----	40	175	W. B.
Limestone, hard-----	2	177	
Shale, dark-----	3	180	

Well 7/10W-7P2

Type of record: Driller's log.

Altitude: About 570 feet.

Record missing-----	54	54	
Pennsylvanian system:			
Upper series:			
Sandstone-----	10	64	
Middle series:			
Limestone-----	1	65	

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

Well 7/10W-7P2--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	2	67	
Shale, dark-----	18	85	
Limestone-----	2	87	
Slate, dark-----	7	94	
Coal-----	2	96	
Fire clay-----	7	103	
Shale, sandy-----	9	112	

Well 7/10W-7P4

Type of record: Driller's log.		Altitude: About 560 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	15	15	
Sand and mud-----	23	38	
Pennsylvanian system:			
Upper series:			
Sandstone-----	23	61	W. B.
Limestone-----	6	67	W. B.
Slate, black-----	1	68	

Well 7/10W-8H1

Type of record: Driller's log.		Altitude: About 470 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	18	18	
Hardpan-----	30	48	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	37	85	
Limestone-----	1	86	
Shale, gray-----	11	97	
Sandstone-----	25	122	
Slate, black-----	4	126	
Coal-----	1	127	
Fire clay-----	1	128	

Well 7/10W-9E2

Type of record: Driller's log.		Altitude: About 459 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Drift-----	60	60	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	10	70	
Coal-----	1	71	W. B.

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

Well 7/10W-9E2--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, gray-----	29	100	
Sandstone, hard-----	2	102	
Shale, sandy-----	23	125	
Red rock-----	2	127	
Shale, sandy-----	49	176	
Limestone, gray-----	2	178	
Shale-----	4	182	
Limestone-----	1	183	
Shale-----	4	187	
Limestone, brown-----	4	191	
Shale, gray-----	2	193	
Red rock-----	1	194	
Shale-----	11	205	
Limestone, white-----	10	215	
Shale, dark-----	15	230	
Shale, sandy-----	44	274	
Coal-----	2	276	
Shale, sandy-----	7	283	
Sandstone-----	12	295	
Shale, sandy-----	30	325	
Coal-----	1	326	
Limestone-----	2	328	
Shale-----	27	355	
Shale, brown-----	15	370	
Limestone-----	7	377	
Coal-----	3	380	T. D. 805 ft.

Well 7/10W-9F3

Type of record: Driller's log.

Altitude: About 464 feet.

Quaternary system:			
Recent and Pleistocene series:			
Drift-----	41	41	
Pennsylvanian system:			
Middle series:			
Shale-----	54	95	
Sandstone-----	25	120	
Shale, sandy-----	30	150	
Sandstone-----	26	176	
Shale, gray-----	3	179	
Shale, sandy-----	2	181	
Limestone-----	3	184	
Shale-----	31	215	
Coal-----	2	217	Gas
Shale, sandy-----	54	271	
Coal-----	2	273	
Shale, sandy-----	9	282	
Sandstone-----	10	292	

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

Well 7/10W-9F3--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	36	328	
Coal-----	2	330	
Limestone-----	2	332	
Coal-----	3	335	
Shale, dark-----	9	344	
Shale, sandy-----	33	377	
Limestone-----	3	380	
Coal-----	2	382	T. D. 847 ft.

Well 7/10W-10B1

Type of record: Driller's log.

Altitude: About 505 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	19	19	
Pennsylvanian system:			
Middle (?) series:			
Sandstone-----	8	27	W. B.
Shale, sandy-----	7	34	
Shale, soft, dark-----	9	43	
Coal-----	3	46	
Fire clay-----	4	50	
Limestone, hard-----	4	54	
Shale, sandy-----	11	65	
Shale, dark-----	15	80	
Limestone, hard-----	2	82	
Shale, light-----	4	86	
Shale, sandy-----	11	97	
Shale, light-----	8	105	
Sandstone-----	22	127	W. B.
Coal-----	3	130	
Limestone-----	5	135	
Sandstone-----	65	200	W. B.
Shale, light-----	3	203	

Well 7/10W-10C1

Type of record: Driller's log.

Altitude: About 497 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	30	30	
Pennsylvanian system:			
Middle (?) series:			
Shale, light-----	5	35	
Shale, dark-----	20	55	
Shale, sandy-----	23	78	
Limestone, brown-----	4	82	W. B.

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

Well 7/10W-10C1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Shale, sandy-----	68	150	
Sandstone-----	49	199	
Shale, light-----	14	213	
Limestone, shell-----	6	219	
Red rock-----	9	228	
Limestone, shell-----	2	230	
Shale-----	2	232	
Sandstone-----	53	285	
Shale, dark-----	45	330	
Shale, sandy-----	24	354	
Coal-----	2	356	
Sandstone, broken-----	3	359	
Limestone, brown-----	3	362	
Coal-----	2	364	
Shale, dark-----	8	372	T. D. 857 ft.

Well 7/10W-10D1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	18	18	
Hardpan and gravel-----	22	40	
Pennsylvanian system:			
Middle series:			
Shale, light-----	8	48	
Shale, dark-----	12	60	
Limestone, hard-----	2	62	W. B.
Shale, light-----	5	67	
Shale, sandy-----	26	93	
Sandstone-----	18	111	W. B.
Coal-----	2	113	
Limestone, hard-----	4	117	
Sandstone-----	66	183	W. B.
Shale, light-----	6	189	

Well 7/10W-11D1

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

Quaternary system:			
Recent and Pleistocene series:			
Drift-----	40	40	
Pennsylvanian system:			
Middle (?) series:			
Shale, sandy-----	20	60	
Limestone, brown-----	2	62	
Shale, gray-----	40	102	
Coal-----	1	103	
Shale-----	8	111	

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

Well 7/10W-11D1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Limestone, gray-----	2	113	
Shale-----	12	125	
Sandstone-----	61	186	
Shale-----	5	191	
Limestone-----	1	192	
Shale-----	2	194	
Limestone, hard, brown-----	4	198	
Red rock-----	8	206	
Shale, muddy-----	25	231	
Sandstone, hard-----	43	274	
Shale, dark-----	21	295	
Coal-----	3	298	
Shale, gray-----	7	305	
Shale, sandy-----	15	320	
Shale, dark-----	2	322	
Coal-----	3	325	
Limestone-----	3	328	
Shale, gray-----	10	338	
Coal-----	3	341	
Shale, gray-----	11	352	
Limestone, sandy, gray-----	5	357	
Shale, sandy-----	11	368	
Coal-----	2	370	
Shale, sandy, dark-----	10	380	
Limestone, hard, brown-----	5	385	
Coal-----	2	387	T. D. 1,332 ft.

Well 7/10W-11M1

Type of record: Driller's log.

Altitude: About 513 feet.

Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	20	20	
Pennsylvanian system:			
Middle (?) series:			
Shale-----	54	74	
Limestone-----	1	75	
Shale, dark-----	63	138	
Sandstone-----	10	148	
Shale, sandy-----	12	160	
Sandstone-----	20	180	
Shale-----	8	188	
Limestone, broken-----	4	192	
Shale, gray-----	13	205	
Limestone-----	10	215	
Shale, red-----	1	216	
Shale, gray-----	4	220	
Limestone-----	6	226	

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

Well 7/10W-11M1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Shale-----	14	240	
Coal-----	2	242	Gas
Shale, gray-----	58	300	
Coal-----	2	302	
Shale, gray-----	16	318	
Limestone, broken-----	7	325	
Shale, gray-----	70	395	
Limestone-----	6	401	
Coal-----	2	403	T. D. 882 ft.

Well 7/10W-12Q1

Type of record: Driller's log.

Altitude: About 535 feet.

Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	18	18	
Sand and gravel-----	6	24	
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	36	60	
Limestone-----	3	63	
Shale-----	6	69	
Limestone-----	5	74	
Shale-----	16	90	
Sandstone-----	53	143	W. B.
Shale, gray-----	8	151	
Limestone-----	5	156	
Shale, gray-----	3	159	
Red rock-----	2	161	
Shale, gray-----	34	195	
Sandstone-----	10	205	
Shale, gray-----	46	251	
Coal-----	2	253	
Shale, dark-gray-----	37	290	
Coal-----	2	292	Gas
Shale, dark-----	49	341	
Coal-----	2	343	Gas
Shale, gray-----	12	355	
Sandstone-----	10	365	W. B.; T. D. 655 ft.

Well 7/10W-13N1

Type of record: Driller's log.

Altitude: About 510 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	20	20	

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

Well 7/10W-13N1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, dark-----	8	28	
Shale, sandy-----	25	53	
Shale, dark-----	5	58	
Sandstone, dark-----	8	66	W. B.
Slate, black, and coal-----	4	70	
Sandstone, dark-----	6	76	
Shale, dark-----	2	78	
Sandstone, light-----	13	91	W. B.
Shale, dark-----	7	98	

Well 7/10W-13Q1

Type of record: Driller's log.

Altitude: About 505 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, red-----	12	12	
Sand-----	3	15	W. B.
Hardpan-----	23	38	
Pennsylvanian system:			
Middle series:			
Shale-----	32	70	
Slate, gray-----	7	77	
Limestone-----	2	79	
Slate, black-----	9	88	
Shale, light-----	7	95	
Limestone, sandy-----	17	112	
Sandstone-----	38	150	W. B.
Sandstone, dark-----	5	155	
Limestone, broken-----	5	160	

Well 7/10W-15D1

Type of record: Driller's log.

Altitude: About 485 feet.

Quaternary system:			
Recent and Pleistocene series:			
Drift-----	31	31	
Pennsylvanian system:			
Middle (?) series:			
Coal-----	3	34	
Shale-----	97	131	
Shale, sandy-----	14	145	
Sandstone-----	45	190	W. B.
Shale-----	16	206	
Limestone, brown-----	1	207	
Shale, gray-----	3	210	
Limestone, hard-----	5	215	
Shale-----	55	270	
Sandstone-----	10	280	
Shale-----	19	299	

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

Well 7/10W-15D1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Coal-----	3	302	
Shale-----	5	307	
Sandstone-----	20	327	
Shale-----	21	349	
Coal-----	3	351	W. B., gas.
Shale-----	14	365	
Sandstone-----	10	375	
Shale, sandy-----	30	405	
Limestone, hard, brown-----	5	410	
Coal-----	3	413	T. D. 860 ft.

Well 7/10W-15G1

Type of record: Driller's log.

Altitude: About 490 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	13	13	
Hardpan-----	17	30	
Shale, gray-----	12	42	Clay (?)
Hardpan-----	11	53	
Pennsylvanian system:			
Middle (?) series:			
Shale, dark-----	22	75	
Limestone-----	3	78	
Shale, sandy-----	39	117	
Slate, dark-----	7	124	
Fire clay-----	2	126	
Shale, sandy-----	34	160	
Sandstone-----	24	184	W. B.
Limestone, hard-----	2	186	
Shale, dark-----	7	193	
Limestone, hard-----	3	196	
Shale, light-----	11	207	

Well 7/10W-15R1

Type of record: Driller's log.

Altitude: About 485 feet.

Quaternary system:			
Recent and Pleistocene series:			
Mud, blue, and gravel-----	52	52	
Pennsylvanian system:			
Middle (?) series:			
Shale, white-----	23	75	
Shale, black-----	45	120	W. B.
Sandstone, gray-----	45	165	
Shale, white-----	4	169	
Limestone, white-----	5	174	
Shale, white-----	8	182	

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

Well 7/10W-15R1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Limestone, white-----	8	190	
Mud, red-----	5	195	
Shale, gray-----	5	200	
Shale, sandy, gray-----	10	210	
Limestone, gray-----	5	215	
Sandstone, gray-----	30	245	
Shale, gray-----	25	270	
Coal-----	2	272	
Shale, gray-----	49	321	
Coal-----	3	324	
Shale, gray-----	12	336	
Sandstone, gray-----	15	351	
Shale, gray-----	6	357	
Coal-----	4	361	W. B., gas.
Sandstone, gray-----	9	370	
Limestone, hard, brown-----	4	374	
Coal-----	5	379	Gas; T. D. 855 ft.

Well 7/10W-16D2

Type of record: Driller's log.

Altitude: About 460 feet.

Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	16	16	
Fill, soft, and sand-----	20	36	
Hardpan-----	28	64	
Gumbo and gravel-----	6	70	
Pennsylvanian system:			
Middle (?) series:			
Limestone, shell-----	1	71	
Shale, sandy-----	4	75	
Sandstone-----	25	100	
Shale, sandy, dark-----	5	105	

Well 7/10W-16E1

Type of record: Driller's log.

Altitude: About 460 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	30	30	
Hardpan-----	25	55	
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	17	72	
Slate, black-----	8	80	
Shale, sandy-----	15	95	
Sandstone, white-----	24	119	W. B.

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

Well 7/10W-17G1

Type of record: Driller's log.

Altitude: About 480 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	15	15	
Hardpan-----	10	25	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	10	35	
Shale, dark-----	10	45	
Shale, gray-----	3	48	
Shale, sandy, broken-----	12	60	W. B.
Shale, dark-----	15	75	
Coal-----	1	76	
Shale, gray-----	7	83	
Shale, sandy-----	10	93	

Well 7/10W-17N1

Type of record: Driller's log.

Altitude: About 495 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	20	20	
Muck, blue-----	25	45	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	13	58	
Coal-----	3	61	
Fire clay-----	3	64	
Sandstone-----	19	83	W. B.
Shale, dark, and coal-----	5	88	

Well 7/10W-18C2

Type of record: Driller's log.

Altitude: About 530 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	15	15	
Muck and sand-----	25	40	
Mud, dark-----	7	47	
Pennsylvanian system:			
Middle series:			
Limestone, hard-----	1	48	
Slate, black-----	4	52	
Coal-----	2	54	W. B.
Fire clay-----	4	58	
Shale, light-----	2	60	

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

Well 7/10W-18C3

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, red-----	20	20	
Sand and boulders-----	19	39	
Mud, blue-----	18	57	
Pennsylvanian system:			
Middle series:			
Coal-----	3	60	
Fire clay-----	10	70	
Sandstone-----	5	75	W. B.

Well 7/10W-18C4

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

Quaternary system:			
Recent and Pleistocene series:			
Mud, yellow-----	20	20	
Muck, blue-----	10	30	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	15	45	
Sandstone-----	15	60	W. B.
Shale, dark-----	3	63	
Shale, sandy-----	7	70	

Well 7/10W-18C5

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, red-----	20	20	
Sand and soft gumbo-----	19	39	
Pennsylvanian system:			
Middle series:			
Limestone, hard-----	3	42	
Sandstone-----	18	60	W. B.
Shale, dark-----	12	72	
Slate, dark-----	20	92	
Coal-----	3	95	
Fire clay-----	5	100	
Sandstone and limestone-----	15	115	W. B.
Shale, dark-----	3	118	

Well 7/10W-18C6

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

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

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

Well 7/10W-18C6--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand-----	10	20	
Gumbo-----	14	34	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	6	40	
Slate, black, some coal-----	7	47	W. B.
Fire clay-----	2	49	
Sandstone-----	4	53	

Well 7/10W-18C7

Type of record: Driller's log.

Altitude: About 550 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, gravel and sand-----	30	30	
Pennsylvanian system:			
Upper series:			
Sandstone-----	18	48	
Middle series:			
Shale-----	13	61	
Limestone-----	3	64	
Shale, dark-----	7	71	
Coal-----	1	72	
Shale, dark-----	18	90	
Limestone, broken-----	27	117	W. B.; crevice at 97 ft.
Slate, black-----	2	119	
Coal-----	1	120	
Fire clay-----	3	123	
Limestone-----	3	126	
Shale, light-----	12	138	
Shale, dark-----	10	148	
Coal-----	3	151	
Fire clay-----	5	156	
Limestone, sandy-----	6	162	
Shale, sandy-----	18	180	
Limestone, broken-----	5	185	
Sandstone-----	25	210	
Shale, sandy, dark-----	4	214	

Well 7/10W-18D1

Type of record: Driller's log.

Altitude: About 560 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	20	20	
Hardpan, sandy, soft-----	18	38	

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

Well 7/10W-18D1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Upper series:			
Sandstone-----	23	61	W. B.
Middle series:			
Limestone-----	11	72	W. B.
Shale, light-----	11	83	
Slate, dark-----	4	87	

Well 7/10W-18D2

Type of record: Sample study
(examined by C. E. Wier)

Altitude: About 438 feet.

Quaternary system:			
Recent series:			
Alluvium, sandy, brown-----	11.0	11.0	
Alluvium, brown, sandstone fragment-----	10.3	21.3	
Pennsylvanian system:			
Middle series:			
Shale, clayey, soft, light-gray- blue-----	12.8	34.1	Core missing 0-34 ft. Core loss is 1.2 ft. from 34.1- 40.6 ft.
Shale, fissile, slightly silty and micaceous, black to dark- gray; contains clay filled joints 1/16-inch wide; 13 bands of sideritic siltstone from 1/4 to 1-inch thick scattered throughout the shale; a calcar- eous sideritic band, 4 ft. above base of shale contains a brachiopod-----	7.7	41.8	
Shale, micaceous, very silty in upper 3 inches, black to dark- gray; numerous brown and black wood imprints; several vitrain streaks in the basal 1-inch; a slickenside joint at 45° near the middle-----	.7	42.5	
Pyrite, silty; occurs in a lense-	.04	42.54	
Shale, silty, dark-gray; carbo- naceous plant imprints-----	.06	42.6	
Coal, banded, bright, black; con- tains cleats filled with calcite 1 mm thick; a few thin bands of brown possible waxy material about 1 mm thick; 3 thin shale streaks in basal 0.5 ft.-----	2.7	45.3	
Shale, light-brown-----	.05	45.35	

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

Well 7/10W-18D2--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal, banded, bright, black-----	0.85	46.2	
Clay, soft, medium to dark-gray--	1.7	47.9	
Clay, soft, pale greenish-gray, small fragments of brownish- gray, secondary (?) limestone up to 1-inch in diameter-----	2.2	50.1	Core loss of 1.1 ft. from 46.2-50.1 ft.
Shale, pale-green to gray, ir- regularly laminated with silt; calcareous clay galls-----	1.1	51.2	
Sandstone, fine-grained, medium- gray; slightly cross-bedded and irregularly laminated; slightly calcareous in local areas; in- terbedded with dark-gray to green shale-----	6.8	58.0	
Clay, silty, medium-gray-----	.3	58.3	
Shale, silty, micaceous, dark-gray to green with local brown mottling, interbedded with light-gray, fine-grained, mi- caceous, locally calcareous, irregularly-bedded and laminated sandstone; many sandstone laminae less than 0.01 ft. thick; percentage of shale gradually increases downward---	7.7	66.0	
Shale, dark-gray; two thin bands of white, calcareous shells----	.05	66.05	
Shale, thin-bedded, dark-gray; light-gray, paper-thin streaks and small ferruginous nodules less than 0.02 ft. in diameter-	14.35	80.4	
Shale, calcareous, dark-gray; small brown (sideritic?) lenses and abundant small shell frag- ments; small crinoid columnals, and possibly a few fusilinids--	.7	81.1	
Limestone, almost coquina, light- gray; contains brachiopods and crinoid stems; irregular streaks of black, carbonaceous lime- stone-----	1.5	82.6	
Limestone, calcareous, carbona- ceous, black; scattered large brachiopods-----	.25	82.85	

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

Well 7/10W-18D2--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Underclay, soft, light-gray; locally pale-green-----	1.15	84.0	"No coal but sharp break in lith- ology".
Sandstone, fine-grained, light- gray; interbedded and inter- laminated with dark-gray, silty, shale-----	6.4	90.4	
Sandstone, fine-grained, silty, micaceous, light-gray-----	1.0	91.4	
Sandstone, fine-grained, silty, interlaminated with dark-gray, silty shale; micaceous, light- gray; locally sandstone be- comes medium to dark-gray siltstone-----	2.9	94.3	
Sandstone, fine-grained, micaceous, light-gray-----	.7	95.0	
Siltstone, dark-gray, interlam- inated with light-gray, medium- grained sandstone, and dark-gray shale; sandstone streaks and lenses slightly calcareous in lower half and shale and silt- stone become almost black-----	24.7	119.7	
Limestone, argillaceous, carbo- naceous, black; abundand brach- iopods; grades downward into black shale-----	1.5	121.2	
Shale, fissile, black; small py- rite nodule in base-----	1.8	123.0	
Coal, banded, black; films of calcite fill vertical cleats---	.8	123.8	
Clay, dark-gray; many carbo- naceous plant inprints-----	.6	124.4	
Clay, calcareous, dark-gray to pale-green; many carbonaceous plant inprints; many black and tan limestone fragments 0.01 to 0.05 ft. in diameter---	5.3	129.7	
Clay, very silty, light-gray and pale-green mottled; sideritic nodules and secondary vertical joint filling-----	1.7	131.4	
Shale, silty, blue-gray; irregular nodules of black and tan impure limestone and brown siderite---	3.65	135.05	

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

Well 7/10W-18D2--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Limestone, light-brown; shell fragments-----	0.05	135.1	
Shale, silty, light and dark-gray interlaminated; local nodules and lenses of siderite; light-gray lamination becomes more silty downward-----	11.7	146.8	
Siderite, brown; effervesces slightly when powdered-----	.15	146.95	
Shale, black; interlaminated with light-gray siltstone-----	8.15	155.1	
Sandstone, fine to medium-grained, subrounded, finely-micaceous, well-cemented, medium-gray; irregular paper-thin, black shale partings containing large mica flakes and carbonized plant fragments-----	6.9	162.0	
Sandstone, medium-grained, subrounded to subangular, finely-micaceous, well-cemented, medium-gray; rare, black shale partings; medium-grained sandstone grades into and alternates with 2 to 5 ft. units of fine-grained sandstone containing more abundant black shale partings and local siderite lenses-----	50.9	212.9	
Shale, soapy, dark-gray; scattered shell fragments-----	1.1	214.0	
Limestone, argillaceous, gray to tan-----	.1	214.1	
Shale, soapy, dark-gray; small brown limestone fragments and scattered shells-----	2.3	216.4	
Limestone, finely crystalline, gray to light-brown; some clear calcite crystals in lower 0.5 ft.; some shell fragments and crinoid columnals-----	3.8	220.2	
Shale, calcareous, black; crinoid columnals-----	.4	220.6	
Shale, black, locally green, and more abundant red lenses; many slickenside surfaces-----	5.9	226.5	
Shale, dark-gray to green; numerous small gray and tan limestone fragments-----	1.7	228.2	

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

Well 7/10W-18D2--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, silty, micaceous, dark-gray to greenish-gray; locally calcareous and locally contains small brown limestone nodules; interlaminated with gray, fine-grained sandstone; shale becomes darker, less calcareous, and less silty downward; slightly calcareous at base-----	20.9	249.1	
Coal, banded, black; calcite film in cleats; small disseminated pyrite crystals-----	1.2	250.3	
Shale, slightly silty, dark-gray; carbonized plant imprints and local thin silty laminae-----	17.8	268.1	
Shale, silty, dark-gray; carbonized plant imprints and mica; shale interlaminated with light-gray, fine-grained sandstone; grades downward into siltstone--	25.4	293.5	
Siltstone, dark-gray; local thin laminations of light-gray, fine-grained sandstone and dark-gray shale-----	16.5	310.0	
Shale, silty, slightly calcareous, medium-gray; carbonized plant imprints-----	.05	310.05	
Shale, fissile, coaly, black-----	.05	310.1	
Coal, banded, black; kaolin and calcite in vertical cleats-----	2.8	312.9	
Clay, silty, dark-gray; numerous carbonized plant imprints-----	2.1	315.0	
Clay, silty, dark-gray; numerous slickensides-----	3.0	318.0	
Siltstone, argillaceous, slightly calcareous, dull-gray-----	.9	318.9	
Siltstone, arenaceous, argillaceous, calcareous, greenish-gray; fragments of gray to tan, sublithographic limestone-----	3.7	322.6	
Siltstone, arenaceous, argillaceous, medium to dark-gray----	2.7	325.3	
Sandstone, fine-grained, silty, well-cemented, light-gray; local laminations of black shale-----	5.7	331.0	

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

Well 7/10W-18D2--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Sandstone, silty, shaly, medium-gray small, tan limestone fragments-----	0.2	331.2	
Siltstone, micaceous, argillaceous, medium-gray; faintly laminated with light-gray, silty laminae; local bands of siderite; becomes less silty and darker downward-----	13.5	344.7	
Shale, silty, micaceous, laminated, dark-gray; scattered siderite--	7.9	352.6	
Shale, dark-gray to black; abundant brachiopod shells and crinoid columnals-----	.6	353.2	
Coal, banded, black; kaolin and calcite films in vertical cleats-----	1.2	354.4	
Shale, dark-gray-----	.06	354.46	
Coal, banded, black; kaolin and calcite films in vertical cleats-----	2.44	356.9	
Clay, slightly calcareous, black; plant imprints-----	.5	357.4	
Limestone, argillaceous, carbonaceous, dark-gray brachiopod shells and crinoid columnals---	1.5	358.9	
Clay, black; jet black slickensides and calcareous zones-----	.4	359.3	
Shale, fissile, black; carbonized plant remains-----	1.3	360.6	
Shale, fissile, soft, dark-gray; some carbonized material and one small calcareous concretion-----	4.3	364.9	
Shale, fissile, silty, black----	.35	365.25	
Shale, fissile, coaly, black----	.07	365.32	
Coal, shaly, black-----	.2	365.52	
Coal, banded, black-----	.35	365.87	
Coal, shaly, black-----	.13	366.0	
Shale, carbonaceous, black-----	.1	366.1	
Clay, silty, medium-gray; carbonized plant remains; calcareous near base-----	2.7	368.8	
Siltstone, calcareous, medium-gray; local concentrations of gray and black limestone fragments-----	2.1	370.9	

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

Well 7/10W-18D2--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Siltstone, laminated, locally slightly calcareous, light to dark-gray; small, brown calcareous nodules from 0.01 to 0.02 ft. in diameter-----	4.7	375.6	
Shale, silty, laminated, dark-gray; abundant siderite lenses up to 0.15 ft. thick; few thin bands of fine-grained sandstone-----	19.5	395.1	
Shale, calcareous, brownish-gray; shell fragments-----	.1	395.2	
Shale, coaly, pyritiferous, dark-gray-----	.15	395.35	
Coal, banded, black-----	1.69	397.04	
Shale, dark-gray-----	.05	397.09	
Coal, banded, black-----	.41	397.5	
Shale, coaly, black-----	.3	397.8	
Siltstone, light-gray; irregular interlamination of black shale-----	2.2	400.0	
Shale, dark-gray; carbonaceous plant remains-----	2.1	402.1	
Sandstone, fine to medium-grained, calcareous, light-gray; a few thin black shale partings-----	1.4	403.5	
Shale, black; interlaminated with light-gray siltstone-----	3.5	407.0	
Shale, silty, black; scattered pyritized plant remains-----	2.4	409.4	
Shale, calcareous, dark-gray; numerous brachiopod shell fragments-----	.5	409.9	
Shale, coaly, black-----	.3	410.2	
Coal, banded, black; calcite film in cleats-----	.9	411.1	
Shale and pyrite, dark-gray-----	.05	411.15	
Coal, banded, black; calcite film in cleats-----	1.55	412.7	
Clay, silty, medium-gray; some carbonized plant remains-----	1.6	414.3	
Shale, silty, calcareous, medium-gray-----	1.8	416.1	

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

Well 7/10W-18D2--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Limestone, silty, medium-gray, tan, and dark-gray mottled; some secondary calcite; dark-gray limestone extends irregularly into the underlying siltstone-----	0.6	416.7	
Siltstone, slightly calcareous, irregularly laminated, medium-gray; dark-gray limestone nodules-----	2.9	419.6	
Sandstone, fine-grained, very silty, very calcareous, light to medium-gray-----	2.0	421.6	
Shale, silty, medium to dark-gray; tan argillaceous limestone in vertical joint-----	1.6	423.2	
Siltstone, faintly laminated, micaceous, medium-gray-----	5.5	428.7	
Record missing-----	8.8	437.5	Core loss approximately 9 ft. Driller believes that no coal was present in the lost core.
Shale, silty, medium-gray-----	2.5	440.0	

Well 7/10W-21R1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, coarse, loose-----	35	35	
Sand, fine, putty-----	2	37	W. B. silty (?)
Mud, glacial, gray-----	6	43	
Hardpan, solid, gray-----	6	49	

Well 7/10W-23C1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	25	25	
Mud, blue-----	9	34	
Pennsylvania system:			
Middle series:			
Sandstone-----	17	51	
Shale, light-----	10	61	

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

Well 7/10W-23C1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, dark-----	4	65	
Coal-----	2	67	
Fire clay-----	3	70	
Shale, light-----	9	79	
Sandstone, dark-----	9	88	
Sandstone, white-----	26	114	W. B.

Well 7/10W-25B1

Type of record: Driller's log. Altitude: About 505 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand, red-----	46	46	
Gravel-----	14	60	W. B.
Gravel, coarse-----	3	63	W. B.
Mud, yellow-----	11	74	
Pennsylvanian system:			
Middle (?) series:			
Shale, sandy, light-----	16	90	
Shale, dark-----	10	100	
Limestone, hard-----	2	102	W. B.
Coal-----	3	105	W. B.
Limestone-----	2	107	
Limestone, sandy-----	4	111	
Shale, dark-----	21	132	

Well 7/10W-28B1

Type of record: Driller's log. Altitude: About 440 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand-----	35	35	
Sand and gravel-----	5	40	
Gravel, coarse-----	13	53	W. B.

Well 7/10W-29A1

Type of record: Driller's log. Altitude: About 435 feet.

Quaternary system:			
Recent and Pleistocene series:			
Pit-----	10	10	
Gravel, coarse, and little sand--	28	38	
Sand and large pebbles-----	5	43	

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

Well 8/8W-2H1

Type of record: Driller's log.

Altitude: About 547 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	10	10	
Sand and gravel with clay-----	30	40	
Pennsylvanian system:			
Middle series:			
Limestone, hard, white-----	3	43	
Limestone, gray-----	7	50	
Shale, sandy, gray-----	10	60	
Shale, dark-gray-----	10	70	
Shale, sandy, light-gray-----	3	73	
Shale, soft, gray-----	10	83	
Shale, sandy, light-gray-----	7	90	
Shale, dark-----	10	100	
Shale, gray-----	13	113	

Well 8/8W-6L1

Type of record: Driller's log.

Altitude: About 530 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil, clay, and sand-----	20	20	
Sand-----	10	30	
Hardpan-----	11	41	
Pennsylvanian system:			
Middle (?) series:			
Shale, sandy-----	19	60	
Shale, gray-----	34	94	
Coal-----	4	98	W. B.
Fire clay-----	4	102	
Limestone-----	1	103	

Well 8/8W-7H1

Type of record: Driller's log.

Altitude: About 510 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	20	20	
Sand-----	3	23	W. B.
Pennsylvanian system:			
Middle series:			
Coal-----	2	25	
Limestone-----	8	33	
Shale, brown-----	27	60	
Coal-----	6	66	
Shale, gray-----	4	70	
Shale, brown-----	150	220	
Limestone, brown-----	20	240	

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

Well 8/8W-7H1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Sandstone-----	55	295	W. B.
Shale, brown-----	5	300	
Sandstone-----	5	305	W. B.
Limestone, soft-----	10	315	
Shale, brown-----	5	320	
Sandstone-----	7	327	W. B.
Coal-----	6	333	
Soapstone-----	5	338	
Limestone, gray-----	12	350	
Shale, brown-----	22	372	
Sandstone-----	23	395	W. B.; T. D. 2,262 ft.

Well 8/8W-7H2

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

Record missing-----	28	28	
Pennsylvanian system:			
Middle series:			
Shale-----	13	41	
Coal-----	2	43	
Fire clay-----	4	47	
Sandstone, coarse-----	1	48	
Shale, sandy-----	6	54	

Well 8/8W-7L1

Type of record: Driller's log. Altitude: About 511 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	8	8	
Gravel-----	4	12	
Hardpan-----	4	16	
Sand-----	12	28	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	19	47	
Shale, soft-----	5	52	
Shale-----	5	57	
Limestone-----	3	60	
Shale, sandy-----	10	70	
Slate-----	18	88	
Shale-----	20	108	
Slate-----	12	120	
Sandstone-----	11	131	
Limestone-----	2	133	
Sandstone-----	7	140	

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

Well 8/8W-7L1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Slate-----	5	145	
Shale, sandy-----	15	160	
Shale-----	17	177	

Well 8/8W-10N1

Type of record: Driller's log.

Altitude: About 578 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay and gravel-----	14	14	
Hardpan-----	4	18	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	17	35	
Coal-----	5	40	
Soapstone-----	66	106	
Slate, dark-----	14	120	
Shale, light-----	10	130	
Slate, black-----	30	160	
Shale, gray slate, and coal-----	60	220	
Shale, and slate, gray-----	47	267	
Coal-----	5	272	
Sandstone-----	10	282	
Fire clay-----	10	292	
Shale, black-----	18	310	
Shale and gray sandstone-----	20	330	
Coal-----	4	334	
Slate, light-----	26	360	T. D. 2,268 ft.

Well 8/8W-12C1

Type of record: Driller's log.

Altitude: About 550 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	11	11	
Sand and gravel-----	3	14	
Sandstone, yellow-----	2.5	16.5	
Shale, sandy, gray-----	22.5	39	Trace of coal at 31 ft.
Gravel and mud, gray-----	9	48	
Sand and mud-----	17	65	
Mud, green-----	15	80	
Mud, gray-----	5	85	
Pennsylvanian system:			
Middle series:			
Shale, soft, light-gray-----	5	90	
Sandstone, light-gray-----	28.5	118.5	

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

Well 8/8W-12C1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal, trace-----	--	118.5	
Fire clay-----	2.5	121	
Shale, gray-----	7	128	Trace of coal at 126 ft.
Shale, sandy, gray-----	4	132	
Sandstone, gray-----	2	134	
Shale, brownish-gray-----	3.5	137.5	
Sandstone, medium-gray-----	6.5	144	
Shale, sandy, gray-----	20	164	
Sandstone and sandy shale, gray--	4	168	
Shale, boots, gray-----	4.5	172.5	
Slate, black-----	1	173.5	
Limestone, brown-----	.5	174	
Shale, gray-----	2	176	
Slate, black-----	5	181	
Shale, gray-----	2	183	
Coal-----	1	184	
Fire clay-----	2	186	
Sandstone, light-gray-----	22	208	
Shale, gray-----	--	208	

Well 8/8W-14L1

Type of record: Driller's log.

Altitude: About 535 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, red-----	20	20	
Hardpan-----	10	30	
Sand and gravel-----	10	40	
Pennsylvanian system:			
Middle series:			
Sandstone-----	6	46	
Coal and shale-----	5	51	

Well 8/8W-17N1

Type of record: Driller's log.

Altitude: About 480 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	15	15	
Sand-----	5	20	W. B.
Hardpan-----	11	31	
Sand and gravel-----	10	41	W. B.
Hardpan-----	12	53	
Gravel, fine, and sand-----	2	55	
Hardpan-----	10	65	

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

Well 8/8W-17N2

Type of record: Driller's log.

Altitude: About 480 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	16	16	
Sand, yellow-----	15	31	W. B.
Sand, yellow, and gravel-----	18	49	W. B.
Sand, muddy-----	4	53	
Hardpan-----	15	68	

Well 8/8W-18L1

Type of record: Driller's log.

Altitude: About 505 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	16	16	
Sand and clay-----	9	25	
Hardpan-----	5	30	
Pennsylvanian system:			
Middle series:			
Sandstone-----	20	50	
Shale, dark-----	30	80	
Coal-----	3	83	
Fire clay-----	3	86	
Shale, gray-----	2	88	
Limestone-----	4	92	
Shale; sandy-----	23	115	
Shale, dark-----	2	117	
Coal-----	4	121	

Well 8/8W-19C1

Type of record: Driller's log.

Altitude: About 490 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	20	20	
Hardpan-----	12	32	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	11	43	
Sandstone-----	17	60	
Shale, dark-----	33	93	
Coal-----	3	96	
Fire clay-----	4	100	
Shale, gray-----	13	113	

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

Well 8/8W-20R1

Type of record: Driller's log.

Altitude: About 525 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	25	25	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	12	37	
Sandstone-----	23	60	
Shale-----	5	65	
Slate, dark-----	3	68	
Coal-----	5	73	
Shale, gray-----	12	85	

Well 8/8W-24M1

Type of record: Driller's log.

Altitude: About 550 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	24	24	
Shale, soft-----	26	50	Clay (?)
Sand and gravel-----	43	93	

Well 8/8W-30D1

Type of record: Driller's log.

Altitude: About 477 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	20	20	
Limestone, hard-----	4	24	Cemented gravel (?)
Sand and gravel-----	24	48	
Gravel-----	7	55	
Sand-----	30	85	W. B.
Pennsylvanian system:			
Middle series:			
Sandstone-----	5	90	
Limestone, hard-----	6	96	
Mud, shaly-----	4	100	
Mud-----	10	110	
Sandstone, shaly-----	5	115	
Sandstone-----	58	173	W. B.
Sandstone, shaly-----	52	225	
Shale and limestone-----	20	245	
Sandstone, shaly-----	5	250	
Slate, hard, black-----	12	262	
Shale, gray, and sandstone-----	11	273	
Sandstone-----	27	300	
Sandstone-----	10	310	W. B.
Shale, hard-----	10	320	
Shale and shaly sandstone-----	20	340	

Table 2.--Selected well logs; Sullivan County, Indiana--Continued

Well 8/8W-30D1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Sandstone and shale-----	13	353	
Sandstone, shaly-----	22	375	
Sandstone-----	25	400	
Sandstone, shaly-----	5	405	
Sandstone-----	30	435	
Shale and sandstone-----	5	440	
Sandstone, shaly-----	10	450	

Well 8/8W-31H1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	20	20	
Shale, green-----	20	40	Clay (?)
Pennsylvanian system:			
Middle series:			
Shale, gray-----	19	59	
Coal-----	1	60	
Fire clay-----	5	65	

Well 8/8W-31K1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	18	18	
Hardpan-----	12	30	
Pennsylvanian system:			
Middle series:			
Sandstone-----	10	40	

Well 8/8W-33N1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	18	18	
Hardpan-----	6	24	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	8	32	
Sandstone-----	38	70	W. B.
Slate, dark-----	2	72	

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

Well 8/8W-34C1

Type of record: Driller's log.

Altitude: About 535 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	14	14	
Pennsylvanian system:			
Middle series:			
Sandstone-----	14	28	
Shale, dark-----	15	43	
Shale, gray-----	4	47	
Coal-----	3	50	
Fire clay-----	7	57	
Shale, gray-----	6	63	
Sandstone, white-----	14	77	W. B.
Shale, dark-----	3	80	

Well 8/8W-34J1

Type of record: Driller's log.

Altitude: About 575 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	12	12	
Clay-----	10	22	
Pennsylvanian system:			
Middle series:			
Sandstone-----	5	27	
Shale, sandy-----	23	50	
Shale and slate-----	10	60	
Coal-----	3	63	
Fire clay-----	7	70	
Shale, sandy-----	5	75	
Sandstone-----	24	99	W. B.

Well 8/8W-34P1

Type of record: Driller's log.

Altitude: About 575 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	15	15	
Pennsylvanian system:			
Middle series:			
Sandstone-----	25	40	W. B.
Shale, dark-----	20	60	

Well 8/8W-34R1

Type of record: Driller's log.

Altitude: About 575 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	8	8	
Hardpan-----	14	22	

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

Well 8/8W-34R1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Sandstone-----	19	41	
Shale, gray-----	18	59	
Coal-----	2	61	
Fire clay-----	3	64	
Limestone, sandy-----	6	70	W. B.
Shale, sandy-----	16	86	

Well 8/8W-35M1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	20	20	
Pennsylvanian system:			
Middle series:			
Sandstone-----	8	28	
Shale, dark-----	12	40	
Sandstone, white-----	5	45	W. B.
Shale, dark-----	13	58	
Coal-----	3	61	
Fire clay-----	1	62	

Well 8/8W-35M2

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

Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	16	16	
Pennsylvanian system:			
Middle series:			
Sandstone-----	24	40	W. B.
Slate, gray-----	11	51	
Coal-----	5	56	
Fire clay-----	2	58	
Limestone, sandy-----	12	70	
Sandstone, white-----	27	97	W. B.

Well 8/8W-36H1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	20	20	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	21	41	
Mud, blue-----	11	52	

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

Well 8/8W-36H1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Limestone, hard-----	4	56	
Shale, dark-----	3	59	
Coal-----	5	64	
Mud, dark-----	4	68	
Mud, white-----	2	70	
Sandstone-----	3	73	
Mud, white-----	9	82	
Shale, gray-----	18	100	
Shale, sandy-----	5	105	
Shale, gray-----	10	115	
Limestone, sandy-----	2	117	
Shale, gray-----	8	125	
Rock and coal-----	1	126	
Sandstone-----	1	127	W. B.
Coal-----	2	129	
Fire clay-----	3	132	
Sandstone-----	6	138	
Shale, white-----	9	147	
Shale, dark-----	13	160	
Coal-----	3	163	
Fire clay-----	4	167	
Shale, dark-----	9	176	
Coal-----	5	181	
Fire clay-----	3	184	
Shale, dark-----	16	200	
Slate, dark-----	2	202	
Coal-----	5	207	
Shale, sandy-----	13	220	
Sandstone-----	6	226	W. B.
Sandstone-----	3	229	
Coal-----	6	235	
Shale, dark-----	10	245	
Sandstone, light-----	12	257	
Lower (?) series:			
Shale, light-----	6	263	
Limestone-----	2	265	
Coal-----	3	268	
Clay-----	1	269	
Sandstone-----	12	281	
Slate, gray-----	3	284	
Sandstone-----	76	360	W. B.
Sandstone-----	32	392	
Coal-----	3	395	
Sandstone, light-----	56	451	
Sandstone, hard-----	14	465	
Shale, light-----	10	475	
Sandstone, light-----	1	476	

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

Well 8/8W-36H1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Lower (?) series:			
Sandstone, brown-----	13	489	
Shale, dark-----	5	494	

Well 8/8W-36N1

Type of record: Driller's log.		Altitude: About 550 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	35	35	
Pennsylvanian system:			
Middle series:			
Sandstone-----	7	42	W. B.
Shale, gray-----	13	55	
Slate, dark-----	10	65	
Coal-----	5	70	
Slate, dark-----	10	80	
Shale, gray-----	5	85	

Well 8/9W-1R1

Type of record: Driller's log.		Altitude: About 520 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Surface and yellow clay-----	20	20	
Hardpan, brown-----	23	43	
Pennsylvanian system:			
Middle series:			
Rock, brown-----	1	44	
Shale, gray-----	30	74	
Coal-----	4	78	W. B.
Shale, sandy, light-----	17	95	
Limestone, gray-----	5	100	
Sandstone, white-----	20	120	W. B.

Well 8/9W-4H1

Type of record: Driller's log.		Altitude: About 510 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	7	7	
Sand-----	8	15	
Hardpan-----	8	23	
Gravel and boulders-----	7	30	
Gravel-----	1	31	
Pennsylvanian system:			
Middle series:			
Shale, clayey, soft-----	10	41	

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

Well 8/9W-4H1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, limy-----	1	42	
Sandstone-----	8.5	50.5	
Shale, sandy-----	17	67.5	
Coal-----	.5	68	
Blackjack-----	1	69	
Shale, sandy-----	56	125	
Slate, sandy-----	3	128	
Coal-----	4	132	
Shale, soft, soapy-----	2.5	134.5	
Shale, limy-----	7.5	142	
Sandstone sprinkled with lime- stone-----	9.5	151.5	
Shale, sandy-----	8.5	160	
Slate and coal-----	.5	160.5	
Slate-----	7.5	168	
Coal-----	6	174	
Slate-----	5	179	
Limestone-----	1	180	
Shale, blue with brown bands-----	15	195	
Shale, dark-----	3	198	
Coal-----	1	199	
Shale, soft, gray-----	2	201	
Shale, limy-----	11	212	
Shale, soft-----	2	214	
Shale, sandy-----	9	223	
Slate-----	2.5	225.5	
Limestone-----	3.5	229	
Slate-----	2	231	
Coal-----	2.5	233.5	
Sandstone-----	9.5	243	
Shale, sandy-----	32	275	
Sandstone-----	11	286	
Shale, sandy-----	14	300	
Shale, dark with hard bands-----	19	319	

Well 8/9W-4M1

Type of record: Driller's log.

Altitude: About 535 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	8	8	
Sand-----	7	15	
Hardpan-----	4	19	
Gravel-----	3	22	
Pennsylvanian system:			
Middle (?) series:			
Sandstone-----	45	67	

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

Well 8/9W-4M1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Shale, blue-----	8	75	
Coal-----	1	76	
Shale, gray-----	14.5	90.5	
Limestone-----	1.5	92	
Shale, soft, blue-----	1	93	
Limestone-----	2	95	
Shale, soft, gray-----	5.5	100.5	
Sandstone and limestone, mixed---	10	110.5	
Shale, sandy-----	9	119.5	
Shale, dark-----	3	122.5	
Coal-----	1	123.5	
Shale, sandy-----	53.5	177	
Shale, dark-----	12.5	189.5	
Coal-----	3.5	193	
Sandstone-----	1	194	
Fire clay-----	1	195	
Blackjack and coal, mixed-----	1	196	
Shale, clayey-----	4	200	
Shale, limy-----	9	209	
Sandstone-----	19	228	
Shale, blue-----	2	230	
Slate-----	6.5	236.5	
Coal-----	6	242.5	
Blackjack-----	1	243.5	
Slate-----	4	247.5	
Shale, limy-----	1	248.5	
Shale, gray-----	15	263.5	
Coal-----	1	264.5	
Shale, gray-----	8.5	273	
Shale, blue-----	9	282	
Shale, dark-----	2	284	
Coal-----	2	286	
Shale, dark-----	3	289	
Shale, sandy-----	6	295	
Slate-----	4	299	
Limestone-----	2	301	
Slate-----	14	315	
Coal-----	5.5	320.5	
Fire clay-----	3.5	324	

Well 8/9W-5B1

Type of record: Driller's log.

Altitude: About 540 feet.

Quaternary system:			
Recent and Pleistocene series:			
Record missing-----	13	13	
Hardpan-----	5	18	

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

Well 8/9W-5B1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy, gray-----	12	30	W. B.
Shale, hard, light-----	5	35	
Sandstone-----	24	60	
Shale, sandy-----	10	70	
Shale, dark-----	10	80	

Well 8/9W-5H1

Type of record: Driller's log.		Altitude: About 540 feet.		
Record missing-----	28	28	W. B.	
Pennsylvanian system:				
Middle series:				
Shale, light-----	5	33		
Sandstone-----	18	51		
Shale, sandy-----	--	51		

Well 8/9W-6C1

Type of record: Driller's log.		Altitude: About 500 feet.		
Quaternary system:				
Recent and Pleistocene series:				
Clay-----	12	12	W. B.	
Hardpan-----	18	30		
Pennsylvanian system:				
Middle series:				
Shale-----	5	35		
Limestone-----	2	37		
Shale-----	3	40		
Limestone-----	--	40		

Well 8/9W-6C2

Type of record: Driller's log.		Altitude: About 507 feet.		
Quaternary system:				
Recent and Pleistocene series:				
Clay-----	12	12	W. B.	
Sand and gravel-----	20	32		
Pennsylvanian system:				
Middle series:				
Shale-----	1	33		
Shale, gray-----	4	37		
Shale, muddy, gray-----	19	56		
Limestone-----	2	58		
Shale-----	7	65		
Red rock-----	3	68		
Shale, gray-----	82	150		
Shale-----	8	158		
Coal-----	2	160		

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

Well 8/9W-6C2--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale-----	45	205	
Shale, gray-----	13	218	
Limestone, hard-----	6	224	
Shale, gray-----	19	243	
Coal-----	2	245	
Shale-----	5	250	
Shale, gray-----	10	260	
Shale-----	30	290	
Shale, brown-----	37	327	
Shale-----	13	340	
Sandstone-----	47	387	W. B.
Sandstone-----	30	417	

Well 8/9W-6H1

Type of record: Driller's log.

Altitude: About 510 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	1	1	
Drift-----	14	15	
Sand, yellow-----	5	20	
Fire clay (?)-----	22	42	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	25	67	
Coal-----	2	69	
Limestone-----	2	71	
Slate, gray-----	16	87	
Red rock-----	8	95	
Sandstone-----	10	105	
Slate, gray-----	20	125	
Shale, light-----	45	170	
Limestone-----	2	172	
Slate, blue-----	4	176	
Coal-----	2	178	
Shale, gray-----	42	220	
Shale, dark-----	6	226	
Coal-----	5	231	
Slate, blue-----	10	241	
Slate, dark-----	24	265	
Slate, blue-----	5	270	
Limestone, gray-----	15	285	
Coal-----	5	290	
Limestone-----	5	295	
Shale, blue-----	5	300	
Coal-----	5	305	
Shale, gray-----	10	315	

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

Well 8/9W-6H1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Limestone, shell-----	2	317	
Shale, gray-----	28	345	
Limestone, shell-----	3	348	
Coal-----	5	353	
Limestone-----	2	355	
Slate, blue-----	8	363	
Slate, white-----	5	368	
Sandstone, white-----	32	400	T. D. 2,429 ft.

Well 8/9W-7H1

Type of record: Driller's log.		Altitude: About 510 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	10	10	
Hardpan, shaly, blue-----	15	25	
Sand-----	3	28	
Hardpan-----	6	34	
Pennsylvanian system:			
Middle series:			
Shale, light-----	13	47	
Limestone-----	1	48	
Sandstone-----	42	90	W. B.

Well 8/9W-7K1

Type of record: Driller's log.		Altitude: About 522 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	18	18	
Gravel-----	5	23	
Mud, black-----	12	35	
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	3	38	
Limestone-----	2	40	
Shale, sandy-----	10	50	
Sandstone-----	40	90	
Shale, dark-----	5	95	
Shale, muddy, gray-----	20	115	
Limestone-----	4	119	
Shale, gray-----	3	122	
Red rock-----	3	125	
Sandstone-----	10	135	
Shale-----	8	143	
Shale, dark-----	20	163	
Sandstone-----	13	176	Show of gas.

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

Well 8/9W-7K1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Shale-----	39	215	
Coal-----	2	217	
Shale-----	35	252	
Limestone-----	1	253	
Coal-----	2	255	
Shale, black-----	5	260	
Shale-----	34	294	
Limestone-----	1	295	
Coal-----	2	297	
Shale, sandy-----	96	393	
Slate, black, and coal-----	5	398	
Sandstone-----	10	408	T. D. 832 ft.

Well 8/9W-8N1

Type of record: Driller's log.

Altitude: About 520 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	18	18	
Pennsylvanian system:			
Middle series:			
Shale-----	15	33	
Limestone-----	2	35	
Slate-----	5	40	
Coal-----	1	41	
Shale-----	1	42	
Limestone-----	2	44	
Shale-----	10	54	
Sandstone-----	3	57	
Shale-----	2	59	
Sandstone-----	21	80	W. B.
Shale-----	2	82	

Well 8/9W-8R1

Type of record: Driller's log.

Altitude: About 530 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	16	16	
Hardpan-----	19	35	
Mud and gravel-----	7	42	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	23	65	
Sandstone-----	33	98	W. B.
Coal-----	2	100	
Fire caly-----	3	103	

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

Well 8/9W-8R1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, light-----	9	112	
Limestone, hard-----	2	114	
Shale, light-----	3	117	
Limestone, hard-----	6	123	
Shale, light-----	3	126	
Red rock-----	2	128	
Shale, dark-----	12	140	
Limestone, hard-----	2	142	
Shale, dark-----	10	152	
Coal-----	2	154	
Fire clay-----	3	157	
Coal-----	3	160	
Fire clay-----	2	162	
Shale, sandy-----	13	175	
Sandstone, light-----	25	200	W. B.
Shale, dark-----	30	230	
Coal-----	2	232	
Shale, light-----	4	236	
Limestone, hard-----	4	240	
Shale, sandy-----	20	260	
Shale, dark-----	9	269	
Coal-----	6	275	

Well 8/9W-10D1

Type of record: Driller's log.

Altitude: 500 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	17	17	
Hardpan-----	7	24	
Sand and gravel-----	21	45	W. B.
Hardpan-----	10	55	
Sand and gravel-----	7	62	W. B.
Pennsylvanian system:			
Middle series:			
Sandstone, white-----	18	80	W. B.
Sandstone, dark-----	14	94	
Shale, dark-----	16	110	

Well 8/9W-10D2

Type of record: Driller's log.

Altitude: About 500 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	17	17	
Hardpan-----	7	24	
Sand and gravel-----	21	45	W. B.

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

Well 8/9W-10D2--Continued

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Hardpan-----	7	52	
Sand and gravel-----	5	57	W. B.
Pennsylvanian system:			
Middle series:			
Sandstone-----	36	93	W. B.
Shale, dark-----	17	110	

Well 8/9W-10D3

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

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	17	17	
Hardpan and gravel-----	10	27	
Shale, soft-----	13	40	Clay (?)
Hardpan-----	13	53	
Pennsylvanian system:			
Middle series:			
Sandstone-----	40	93	W. B.
Shale, dark-----	17	110	

Well 8/9W-10D4

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	4	4	
Clay, gritty, gray-----	9	13	
Gravel, coarse, gray-----	3	16	W. B.
Hardpan, green-----	12	28	
Clay, gritty, yellow-----	4	32	
Sand, muddy, yellow-----	2	34	W. B.
Clay, gritty, yellow-----	6	40	
Clay, gritty, gray-----	8	48	
Gravel, dark, black-----	8	56	W. B.
Gravel and sandstone-----	3	59	W. B.

Well 8/9W-10E1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	25	25	
Sand and gravel-----	27	52	
Gravel, coarse-----	3	55	W. B.

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

Well 8/9W-10E2

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-----	4	4	
Clay, sandy, gray-----	17	21	
Gravel coarse-----	1	22	W. B.
Clay, gritty, gray-----	38	60	
Pennsylvanian system:			
Middle series:			
Sandstone-----	1	61	

Well 8/9W-10E3

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

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	4	4	
Clay, sandy-----	17	21	
Clay, gritty, gray-----	34	55	
Sandstone-----	5	60	W. B.

Well 8/9W-10H1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	21	21	
Boulders-----	1	22	
Hardpan-----	4	26	
Boulder, hard-----	2	28	
Hardpan-----	2	30	
Pennsylvanian system:			
Middle series:			
Sandstone-----	25	55	W. B.
Shale, dark-----	21	76	
Limestone, hard-----	2	78	W. B.
Shale, gray-----	2	80	

Well 8/9W-14G1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	12	12	
Hardpan-----	8	20	
Pennsylvanian system:			
Middle series:			
Shale, light-----	14	34	
Limestone, hard-----	1	35	

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

Well 8/9W-14G1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, light-----	3	38	
Limestone, hard-----	3	41	
Red rock-----	7	48	
Shale, gray-----	2	50	
Limestone, hard-----	6	56	
Shale, sandy, gray-----	10	66	
Limestone, hard-----	2	68	
Shale, dark-----	10	78	
Sandstone, light-----	62	140	W. B.
Slate, gray-----	3	143	
Coal-----	5	148	
Fire clay-----	4	152	
Limestone, sandy-----	12	164	
Sandstone-----	11	175	W. B.
Slate, black-----	9	184	
Coal-----	6	190	Gas

Well 8/9W-16A1

Type of record: Driller's log.

Altitude: About 505 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	10	10	
Hardpan-----	18	28	
Shale, pink-----	1	29	
Boulders-----	4	33	
Pennsylvanian system:			
Middle series:			
Red rock-----	7	40	
Shale, dark-----	8	48	
Limestone-----	1	49	
Shale-----	11	60	
Slate, gray-----	12	72	W. B.
Sandstone-----	23	95	W. B.
Slate, dark-----	5	100	
Limestone, sandy-----	18	118	
Slate, dark-----	17	135	
Coal-----	6	141	

Well 8/9W-16A2

Type of record: Driller's log.

Altitude: About 505 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	16	16	
Hardpan-----	36	52	

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

Well 8/9W-16A2--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, light-----	8	60	
Slate, gray-----	25	85	
Shale, sandy-----	13	98	
Shale-----	7	105	
Shale, sandy-----	9	114	
Limestone, sandy-----	3	117	
Shale, dark-----	16	133	
Coal-----	5	138	W. B.
Fire clay-----	4	142	
Shale, gray-----	8	150	
Limestone, sandy-----	6	156	
Sandstone-----	16	172	
Slate, black-----	13	185	
Coal-----	5	190	
Fire clay-----	6	196	
Shale, dark-----	4	200	
Slate, gray-----	4	204	W. B.
Coal-----	3	207	
Fire clay-----	4	211	

Well 8/9W-16H1

Type of record: Driller's log.		Altitude: About 535 feet.	
Record missing-----	18	18	
Pennsylvanian system:			
Middle series:			
Sandstone-----	10	28	
Shale-----	2	30	
Sandstone, white-----	45	75	W. B.

Well 8/9W-20G1

Type of record: Driller's log.		Altitude: About 540 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	23	23	
Hardpan, gray-----	9	32	
Pennsylvanian system:			
Middle (?) series:			
Shale, light-----	13	45	
Shale, dark-----	4	49	
Limestone-----	2	51	
Shale-----	3	54	
Slate-----	5	59	
Coal-----	3	62	
Fire clay-----	2	64	
Shale, white-----	21	85	

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

Well 8/9W-20G1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Sandstone, dark-----	7	92	
Sandstone, light-----	46	138	
Limestone, brown-----	1	139	
Shale, white-----	3	142	
Limestone, gray, and light shale-----	7	149	
Limestone, hard-----	6	155	
Red rock-----	9	164	
Shale, sandy-----	11	175	
Slate, gray-----	20	195	
Shale, sandy-----	9	204	
Sandstone-----	40	244	W. B.

Well 8/9W-20G2

Type of record: Driller's log.

Altitude: About 540 feet.

Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	17	17	
Hardpan, yellow-----	15	32	
Hardpan, gray-----	3	35	
Hardpan, yellow-----	3	38	
Pennsylvanian system:			
Middle series:			
Shale, sandy, gray-----	7	45	
Shale, dark-----	5	50	
Slate, black-----	3	53	
Coal-----	2	55	W. B.
Fire clay, solid-----	1	56	
Shale, dark-----	9	65	
Shale, light-----	17	82	
Sandstone, dark-----	5	87	
Sandstone, light-----	15	102	
Sandstone, coarse, light-----	--	102	

Well 8/9W-20N1

Type of record: Driller's log.

Altitude: About 540 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	18	18	
Hardpan-----	10	28	
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	24	52	
Limestone-----	2	54	
Shale, dark-----	6	60	
Coal-----	1	61	

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

Well 8/9W-20N1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	9	70	
Sandstone-----	69	139	
Shale, gray-----	8	147	
Limestone-----	2	149	
Shale, gray-----	3	152	
Limestone-----	5	157	
Shale, gray-----	3	160	
Red rock-----	4	164	
Shale, limy, broken-----	19	183	
Shale, gray-----	10	193	
Sandstone-----	7	220	
Shale, sandy-----	14	234	

Well 8/9W-20Q1

Type of record: Driller's log.

Altitude: About 530 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	26	26	
Gravel-----	4	30	W. B.
Shale, yellow-----	5	35	Clay (?)
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	7	42	
Shale, hard, gray-----	46	88	
Sandstone-----	5	93	
Shale, gray-----	7	100	
Limestone-----	1	101	
Shale, gray-----	2	103	
Limestone, hard-----	3	106	

Well 8/9W-22C1

Type of record: Driller's log.

Altitude: About 510 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	17	17	
Hardpan-----	23	40	
Hardpan, gravel, and sand-----	18	58	

Well 8/9W-22E1

Type of record: Driller's log.

Altitude: About 520 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay and sand-----	30	30	
Hardpan and sand-----	45	75	

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

Well 8/9W-22E1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Shale, soft-----	3	78	Clay (?)
Sand, coarse-----	3	81	
Pennsylvanian system:			
Middle series:			
Shale, white-----	4	85	
Limestone-----	1	86	
Shale-----	4	90	
Limestone, hard-----	3	93	

Well 8/9W-23L1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	12	12	
Hardpan, yellow-----	11	23	
Hardpan, gray-----	62	85	
Pennsylvanian system:			
Middle series:			
Sandstone, soft-----	5	90	
Sandstone, friable-----	1	91	Gas
Sandstone, soft-----	11	102	W. B.
Coal-----	2	104	
Sandstone-----	4	108	W. B.
Fire clay-----	4	112	
Sandstone, white-----	18	130	W. B.
Shale, dark-----	7	137	

Well 8/9W-23M1

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

Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	20	20	
Hardpan-----	20	40	
Pennsylvanian system:			
Middle series:			
Shale-----	10	50	
Limestone-----	2	52	W. B.
Shale, gray-----	4	56	
Limestone-----	--	56	

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

Well 8/9W-23P1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, red-----	15	15	
Hardpan, yellow-----	7	22	
Hardpan, gray-----	36	58	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	4	62	
Limestone, hard-----	2	64	
Shale, gray-----	11	75	
Shale, sandy-----	9	84	
Limestone, hard-----	2	86	
Shale, sandy-----	31	117	
Slate, dark-----	7	124	
Coal and fire clay-----	6	130	
Shale, gray-----	6	136	
Limestone, hard-----	5	141	
Sandstone-----	9	150	W. B.
Shale-----	2	152	

Well 8/9W-23R1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	15	15	
Hardpan-----	45	60	
Shale and hardpan, soft-----	40	100	Clay (?)
Sand-----	--	100	

Well 8/9W-25N1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	16	16	
Hardpan-----	9	25	
Gravel and sand-----	7	32	W. B.
Gravel, fine-----	6	38	W. B.
Sand and gravel-----	42	80	W. B.
Pennsylvanian system:			
Middle series:			
Shale-----	30	110	
Coal-----	1	111	
Sandstone-----	11	122	W. B.

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

Well 8/9W-27D1

Type of record: Driller's log.

Altitude: About 525 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	55	55	
Pennsylvanian system:			
Middle series:			
Limestone-----	12	67	
Shale-----	29	96	
Sandstone and shale-----	21	117	
Coal-----	4	121	
Fire clay-----	6	127	
Limestone, hard-----	10	137	
Shale-----	13	150	
Coal-----	2	152	
Shale-----	38	190	
Coal-----	5	195	
Clay-----	9	204	
Shale-----	51	255	
Sandstone and gravel-----	6	261	Concretions (?)
Shale, sandy-----	24	285	
Shale-----	10	295	
Coal-----	5	300	Gas
Shale, brown-----	20	320	
Shale, sandy-----	40	360	
Sandstone-----	20	380	
Shale-----	14	394	
Coal-----	4	398	

Well 8/9W-28M1

Type of record: Driller's log.

Altitude: About 505 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	15	15	
Hardpan-----	8	23	
Quicksand-----	25	48	W. B.
Pennsylvanian system:			
Middle (?) series:			
Sandstone, dark-----	18	66	
Sandstone, light-----	14	80	W. B.
Slate, dark-----	2	82	
Coal-----	2	84	
Fire clay-----	3	87	
Shale, light-----	11	98	
Limestone, hard-----	4	102	W. B.
Red rock-----	9	111	
Sandstone-----	4	115	
Limestone-----	3	118	

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

Well 8/9W-28M2

Type of record: Driller's log.

Altitude: About 505 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	18	18	
Shale, yellow-----	25	43	Clay (?)
Shale, blue-----	12	55	W. B.; clay (?)
Pennsylvanian system:			
Middle (?) series:			
Sandstone, dark-----	15	70	
Sandstone, gray-----	10	80	
Limestone-----	5	85	
Shale, dark-----	2	87	
Coal-----	1	88	
Shale-----	12	100	
Limestone-----	1	101	
Shale-----	4	105	
Limestone, hard-----	5	110	
Shale, gray-----	2	112	
Red rock-----	3	115	
Limestone, sandy-----	12	127	

Well 8/9W-28N1

Type of record: Driller's log.

Altitude: About 505 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	15	15	
Gravel and sand-----	25	40	
Pennsylvanian system:			
Middle series:			
Shale, soft-----	15	55	
Sandstone, white-----	27	82	W. B.
Limestone, hard-----	1	83	

Well 8/9W-28Q1

Type of record: Driller's log.

Altitude: About 485 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	13	13	
Gravel-----	2	15	
Pennsylvanian system:			
Middle series:			
Sandstone-----	28	43	W. B.
Shale, dark-----	6	49	
Coal-----	3	52	
Fire clay-----	3	55	
Shale, soft-----	5	60	
Sandstone, white-----	22	82	
Limestone, hard-----	1	83	

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

Well 8/9W-29K1

Type of record: Driller's log.

Altitude: About 525 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	15	15	
Hardpan-----	10	25	
Pennsylvanian system:			
Middle series:			
Shale, soft-----	18	43	
Limestone-----	4	47	
Coal-----	1	48	
Shale, soft, gray-----	17	65	
Shale, sandy-----	19	84	
Sandstone-----	25	109	

Well 8/9W-29Q1

Type of record: Driller's log.

Altitude: About 510 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	13	13	
Clay, sandy-----	13	26	
Quicksand-----	5	31	
Pennsylvanian system:			
Middle series:			
Slate, black-----	7	38	
Coal-----	2	40	W. B.
Fire clay-----	6	46	
Sandstone-----	5	51	W. B.
Shale, black-----	9	60	

Well 8/9W-29R1

Type of record: Driller's log.

Altitude: About 510 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	10	10	
Hardpan-----	5	15	
Sand-----	3	18	W. B.
Hardpan-----	27	45	
Pennsylvanian system:			
Middle (?) series:			
Shale, dark-----	19	64	
Sandstone-----	25	89	W. B.
Slate, black, and coal-----	8	97	
Fire clay-----	3	100	
Shale, light-----	7	107	
Limestone-----	3	110	W. B.
Shale, dark-----	2	112	
Limestone, hard-----	2	114	

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

Well 8/9W-30Q1

Type of record: Driller's log.

Altitude: About 530 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	16	16	
Hardpan-----	12	28	
Pennsylvanian system:			
Middle (?) series:			
Shale, light-----	3	31	
Limestone-----	4	35	
Shale, light-----	15	50	
Shale, sandy-----	13	63	
Shale, dark-----	4	67	
Limestone-----	1	68	
Slate, black-----	6	74	
Shale, gray-----	11	85	
Sandstone-----	60	145	
Shale, light-----	8	153	
Limestone-----	1	154	
Shale, gray-----	5	159	
Limestone-----	5	164	
Shale, gray, and red rock-----	9	173	

Well 8/9W-31J1

Type of record: Driller's log.

Altitude: About 510 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	15	15	
Hardpan-----	10	25	
Shale, green-----	20	45	Clay (?)
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	8	53	
Limestone-----	22	75	
Sandstone-----	37	112	
Shale, gray-----	3	115	
Limestone-----	1	116	
Shale, gray-----	3	119	
Limestone-----	4	123	
Red rock-----	7	130	
Limestone, sandy-----	5	135	
Shale, gray-----	55	190	
Shale, dark-----	29	219	
Coal-----	2	221	
Shale, gray-----	10	231	
Limestone-----	2	233	
Shale, sandy-----	14	247	
Shale, gray-----	13	260	
Shale, dark-----	5	265	

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

Well 8/9W-31J1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Coal-----	3	268	
Shale, gray-----	12	280	
Limestone, sandy-----	3	283	
Shale, gray-----	11	294	
Shale, dark-----	4	298	
Coal-----	2	300	
Limestone, sandy-----	5	305	
Shale, dark-----	15	320	
Coal-----	2	322	
Shale, gray-----	79	401	T. D. 774 ft.

Well 8/9W-31J2

Type of record: Driller's log.		Altitude: About 500 feet.	
Record missing-----	29	29	
Pennsylvanian system:			
Middle series:			
Limestone-----	3	32	
Limestone, sandy-----	18	50	W. B. 30 to 35 ft.
Sandstone-----	51	101	E. B. 86 to 90 ft.

Well 8/9W-32B1

Type of record: Driller's log.		Altitude: About 505 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	15	15	
Hardpan-----	10	25	
Shale, green-----	50	75	Clay (?)
Pennsylvanian system:			
Middle series:			
Shale, gray-----	18	93	
Limestone-----	1	94	
Shale-----	1	95	
Limestone-----	5	100	
Shale and red rock-----	7	107	
Shale-----	5	112	
Limestone, sandy-----	8	120	
Shale, gray-----	12	132	
Shale, dark-----	10	142	
Limestone, sandy-----	28	170	W. B.
Shale, sandy-----	20	190	
Coal-----	2	192	
Shale, gray-----	10	202	
Limestone-----	5	207	
Shale, gray-----	20	227	
Shale, dark-----	8	235	

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

Well 8/9W-32B1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	2	237	Gas
Shale, gray-----	17	254	
Limestone-----	2	256	
Sandstone, broken, and shale-----	14	270	
Shale, dark-----	4	274	
Shale, gray-----	11	285	
Sandstone-----	15	300	Gas
Sandstone, broken-----	20	320	
Shale, dark-----	64	384	
Coal-----	5	389	Gas
Sandstone-----	36	425	T. D. 806 ft.

Well 8/9W-32M1

Type of record: Driller's log.

Altitude: About 489 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	15	15	
Pennsylvanian system:			
Middle (?) series:			
Shale-----	6	21	
Sandstone-----	27	48	
Shale, gray-----	36	84	
Limestone-----	3	87	
Shale, gray-----	5	92	
Red rock-----	6	98	
Limestone, sandy-----	14	112	
Limestone, broken, and shale-----	46	158	
Sandstone-----	16	174	
Shale, dark-----	11	185	
Coal-----	2	187	
Shale, gray-----	3	190	
Limestone-----	3	193	
Sandstone-----	7	200	
Shale, sandy-----	13	213	
Shale, gray-----	6	219	
Shale, dark-----	10	229	
Coal-----	3	232	
Shale, dark-----	13	245	
Limestone, sandy-----	4	249	
Shale, dark-----	16	265	
Coal-----	4	269	Gas
Limestone-----	6	275	
Shale, gray-----	38	313	
Shale, sandy-----	22	335	
Shale, gray-----	37	372	

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

Well 8/9W-33A1

Type of record: Driller's log.

Altitude: About 500 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	15	15	
Hardpan and blue fill-----	45	60	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	8	68	
Sandstone, white-----	52	120	W. B.
Slate, dark-----	3	123	

Well 8/9W-33N1

Type of record: Driller's log.

Altitude: About 500 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	15	15	
Hardpan-----	23	38	
Pennsylvanian system:			
Middle series:			
Limestone, hard-----	2	40	
Sandstone-----	3	43	W. B.
Shale, gray-----	11	54	
Sandstone-----	11	65	W. B.

Well 8/9W-34N1

Type of record: Driller's log.

Altitude: About 485 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-----	25	55	
Coal-----	1	56	
Shale, gray-----	7	63	
Limestone-----	4	67	
Shale, gray-----	13	80	
Shale, dark-----	10	90	Gas
Shale, gray-----	20	110	
Shale, sandy-----	34	144	
Shale, dark-----	22	166	
Coal-----	3	169	
Shale, gray-----	11	180	
Sandstone-----	6	186	
Shale, gray-----	9	195	
Slate-----	10	205	

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

Well 8/9W-34P1

Type of record: Driller's log.

Altitude: About 490 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil and yellow clay-----	7	7	
Clay, yellow, and sand-----	8	15	
Clay, soft, yellow, and runny sand-----	1	16	W. B.
Hardpan, soft, gray-----	8	24	
Sand, soft, gray-----	2	26	W. B.
Hardpan, solid, gray-----	29	55	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	7	62	
Shale, sandy-----	17	79	
Sandstone, soft, gray-----	3	82	W. B.
Slate, gray-----	4	86	

Well 8/9W-36F1

Type of record: Driller's log.

Altitude: About 451 feet.

Quaternary system:			
Recent and Pleistocene series:			
Soil-----	45	45	
Pennsylvanian system:			
Middle series:			
Sandstone-----	20	65	
Sandstone, gray-----	15	80	
Shale-----	2	82	
Coal-----	3	85	
Shale, dark-----	15	100	
Shale, light-----	20	120	
Shale, sandy, light-----	20	140	
Shale, dark-----	35	175	
Shale, light-----	15	190	
Coal-----	5	195	
Shale-----	10	205	
Sandstone-----	25	230	
Slate-----	20	250	
Coal-----	5	255	
Slate, sandy-----	15	270	
Limestone, sandy-----	40	310	
Slate, dark and light-----	27	337	
Coal-----	8	345	
Slate-----	5	350	
Sandstone-----	20	370	Gas
Slate-----	10	380	
Limestone, shell-----	5	385	
Slate, gray-----	5	390	
Sandstone-----	65	455	Salt water T. D. 4,160 ft.