

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

Well 8/9W-36R1

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-----	14	14	
Hardpan-----	4	18	
Mud and sand-----	17	35	
Pennsylvanian system:			
Middle series:			
Sandstone, dark-----	22	57	W. B.
Shale, gray-----	24	81	
Coal-----	3	84	
Fire clay-----	3	87	
Sandstone, white-----	16	103	W. B.
Shale, sandy-----	9	112	
Shale, brown-----	3	115	

Well 8/10W-1N1

Type of record: Driller's log.

Altitude: About 501 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	12	12	
Pennsylvanian system:			
Middle series:			
Shale-----	41	53	
Limestone-----	5	58	
Shale-----	4	62	
Red rock-----	3	65	
Shale, sandy-----	7	72	
Sandstone-----	10	82	
Shale, limy, broken-----	18	100	
Sandstone-----	12	112	
Shale, dark-----	40	152	
Coal-----	2	154	
Fire clay-----	2	156	
Limestone-----	1	157	
Shale, light-gray-----	24	181	
Shale, sandy, dark-----	12	193	
Coal-----	5	198	Gas
Fire clay-----	15	213	
Slate-----	3	216	
Shale, light-----	7	223	
Shale, sandy-----	17	240	
Shale, dark-----	3	243	
Slate-----	3	246	Gas
Coal-----	4	250	
Limestone, sandy-----	13	263	
Sandstone-----	32	295	
Shale, sandy-----	9	304	

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

Well 8/10W-1N1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, dark-----	41	345	
Slate-----	4	349	
Limestone-----	5	354	
Coal-----	4	358	Gas
Limestone, hard-----	3	361	
Limestone, sandy-----	15	376	
Sandstone-----	90	466	W. B.

Well 8/10W-3D1

Type of record: Driller's log.

Altitude: About 490 feet.

Quaternary system:			
Recent and Pleistocene series:			
Record missing-----	30	30	
Hardpan-----	15	45	
Pennsylvanian system:			
Middle (?) series:			
Sandstone, shaly-----	33	78	
Sandstone-----	2	80	W. B.
Limestone-----	5	85	
Shale, gray-----	60	145	
Coal-----	1	146	
Fire clay-----	9	155	
Limestone-----	5	160	
Shale, gray-----	4	164	
Red rock-----	4	168	
Shale, gray-----	3	171	
Limestone, sandy-----	14	185	
Shale, gray-----	5	190	

Well 8/10W-3G1

Type of record: Driller's log.

Altitude: About 465 feet.

Quaternary system:			
Recent and Pleistocene series:			
Soil-----	1	1	
Hardpan-----	15	16	
Sand, hard-----	6	22	
Limestone, hard-----	4	26	Cemented gravel (?)
Gravel-----	2	28	
Pennsylvanian system:			
Middle (?) series:			
Coal-----	1	29	
Shale, gray-----	6	35	
Shale, dark-----	3	38	
Limestone, shells-----	2	40	
Shale, sandy-----	5	45	

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

Well 8/10W-3G1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	10	55	
Shale, dark-----	10	65	
Shale, light-----	19	84	
Shale, dark-----	6	90	
Shale, light-----	10	100	
Shale, dark-----	10	110	
Shale, light-----	9	119	
Coal-----	2	121	
Fire clay-----	4	125	
Shale, dark-----	7	132	
Limestone-----	3	135	Gas
Shale, light-----	3	138	
Limestone, white-----	1	139	
Shale, light-----	3	142	
Red rock-----	3	145	
Sandstone, hard-----	20	165	
Shale, light-----	5	170	
Sandstone-----	5	175	
Shale, dark-----	5	180	
Shale, sandy-----	5	185	
Limestone, dark-----	15	200	
Shale, dark-----	5	205	
Limestone-----	3	208	
Shale-----	2	210	
Limestone-----	5	215	
Shale, dark-----	20	235	
Shale, light-----	2	237	
Coal-----	5	242	Gas
Fire clay-----	8	250	
Limestone, shells-----	2	252	
Shale, gray-----	8	260	
Limestone, sandy-----	10	270	
Limestone-----	5	275	
Coal-----	4	279	
Shale, dark-----	6	285	
Fire clay-----	15	300	
Limestone, shells-----	2	302	
Fire clay-----	2	304	
Shale-----	17	321	
Limestone-----	9	330	
Coal-----	3	333	
Fire clay-----	2	335	
Limestone, blue-----	3	338	
Shale-----	2	340	
Shale, light-----	10	350	
Shale, dark-----	10	360	
Limestone-----	5	365	T. D. 1,478 ft.

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

Well 8/10W-3P1

Type of record: Driller's log.

Altitude: About 500 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	18	18	
Hardpan-----	12	30	
Pennsylvanian system:			
Middle (?) series:			
Sandstone, gray-----	15	45	
Shale, sandy, dark-----	15	60	
Slate, black-----	5	65	
Coal-----	2	67	
Shale, gray-----	8	75	
Limestone, sandy-----	10	85	
Shale, gray-----	48	133	
Shale, dark-----	5	138	Trace of coal.
Shale, gray-----	16	154	
Limestone-----	3	157	
Shale, gray-----	7	164	
Shale, dark-----	6	170	
Shale, sandy-----	53	223	
Shale, gray-----	14	237	
Coal-----	2	239	
Shale, gray-----	14	253	
Limestone, sandy-----	9	262	
Shale, gray, and broken sand- stone-----	13	275	
Shale, dark-----	11	286	
Coal-----	3	289	

Well 8/10W-4Q1

Type of record: Driller's log.

Altitude: About 470 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	20	20	
Shale, dark, and gravel-----	28	48	Clay (?)
Pennsylvanian system:			
Middle series:			
Shale, sandy, broken, gray-----	16	64	
Shale, dark-----	3	67	
Shale, sandy, broken, gray-----	20	87	
Shale, dark, and slate-----	3	90	
Shale, gray-----	5	95	
Limestone-----	2	97	
Sandstone-----	6	103	
Shale, gray-----	2	105	

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

Well 8/10W-5J1

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-----	18	18	
Hardpan-----	67	85	
Shale, soft-----	7	92	Clay (?)
Sand and gravel-----	22	114	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	2	116	
Sandstone-----	9	125	W. B.
Shale, dark-----	3	128	

Well 8/10W-5M1

Type of record: Driller's log.

Altitude: About 464 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil-----	8	8	
Gravel-----	66	74	
Pennsylvanian system:			
Middle (?) series:			
Limestone-----	5	79	
Sandstone and limestone (?)-----	8	87	
Shale-----	29	116	
Coal-----	1	117	
Limestone-----	1	118	
Coal-----	2	120	
Shale, gray-----	17	137	
Sandstone and limestone (?)-----	13	150	
Shale-----	43	193	
Limestone-----	4	197	
Red rock and shale-----	3	200	
Red rock-----	3	203	
Shale-----	8	211	
Limestone-----	2	213	
Sandstone-----	52	265	
Limestone, sandy-----	5	270	
Shale-----	37	307	
Shale, sandy-----	6	313	
Shale-----	17	330	
Coal-----	2	332	Gas
Shale-----	41	373	
Sandstone-----	6	379	
Slate-----	3	382	
Coal-----	1	383	
Shale-----	15	398	
Sandstone-----	10	408	T. D. 585 ft.

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

Well 8/10W-6K1		Altitude: About 510 feet.	
Type of record: Driller's log.			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	20	20	
Sand and gravel-----	41	61	
Shale, light-----	8	69	Clay (?)
Gravel and mud-----	28	97	
Mud-----	23	120	
Pennsylvanian system:			
Middle (?) series:			
Sandstone, hard-----	9	129	
Shale, light-----	31	160	
Slate-----	17	177	
Coal-----	2	179	
Shale-----	11	190	
Shale, sandy-----	16	206	
Shale-----	18	224	
Slate-----	16	240	
Shale-----	15	255	
Limestone-----	6	261	
Red rock-----	3	264	
Shale-----	5	269	
Sandstone-----	6	275	Gas
Shale, light-----	9	284	
Limestone-----	5	289	
Shale, sandy-----	61	350	
Coal-----	2	352	
Shale, light-----	44	396	
Coal-----	2	398	
Slate, black-----	2	400	T. D. 2,747 ft.

Well 8/10W-6N1		Altitude: About 505 feet.	
Type of record: Driller's log.			
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	25	25	
Hardpan and shale (?)-----	59	84	Clay (?)
Gravel-----	2	86	
Pennsylvanian system:			
Middle series:			
Shale-----	28	114	
Sandstone-----	1	115	W. B.
Shale, dark-----	3	118	

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

Well 8/10W-6P1

Type of record: Driller's log.

Altitude: About 508 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Drift-----	20	20	
Sand-----	10	30	
Shale, gray-----	2	32	Clay (?)
Sand-----	12	44	
Shale (?) and gravel-----	71	115	Clay (?)
Gravel-----	15	130	
Pennsylvanian system:			
Middle (?) series:			
Shale, white-----	20	150	
Shale, sandy, brown-----	10	160	
Sandstone-----	15	175	
Shale, gray-----	66	241	
Coal-----	2	243	
Shale, gray-----	7	250	
Limestone, broken-----	10	260	
Shale-----	5	265	
Red rock-----	3	268	T. D. 852 ft.

Well 8/10W-7D1

Type of record: Driller's log.

Altitude: About 495 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	18	18	
Hardpan-----	40	58	
Mud and sand-----	14	72	
Shale, soft-----	18	90	Clay (?)
Sand and gravel-----	23	113	W. B.

Well 8/10W-7E1

Type of record: Driller's log.

Altitude: About 470 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	8	8	
Gravel-----	32	40	
Shale, sandy-----	30	70	Clay (?)
Slate-----	2	72	Compact clay (?)
Sand-----	2	74	
Pennsylvanian system:			
Middle series:			
Slate-----	1	75	

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

Well 8/10W-7M1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	16	16	
Shale, blue-----	9	25	Clay (?)
Shale, gray-----	35	60	Do
Shale, green-----	5	65	Do
Shale, sandy-----	5	70	Do

Well 8/10W-8A1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	10	10	
Pennsylvanian system:			
Upper (?) series:			
Sandstone, red-----	35	45	
Sandstone, white-----	19	64	W. B.
Middle (?) series:			
Coal-----	1	65	
Limestone-----	7	72	
Shale, gray-----	3	75	
Slate, black-----	5	80	
Shale, light-----	1	81	

Well 8/10W-8C1

Type of record: Driller's log. Altitude: About 454 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	30	30	
Mud, blue-----	20	50	
Sand-----	10	60	W. B.
Pennsylvanian system:			
Middle (?) series:			
Shale, blue-----	20	80	
Sandstone-----	20	100	
Shale, gray-----	20	120	
Shale, blue-----	10	130	
Shale, gray-----	10	140	
Shale, dark-----	10	150	
Shale, sandy-----	10	160	
Slate, dark-----	31	191	
Limestone, white-----	6	197	
Red rock-----	3	200	
Shale, dark-----	6	206	
Sandstone, hard-----	4	210	
Coal-----	5	215	

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

Well 8/10W-9B2

Type of record: Core drill log.

Altitude: About 485 feet.

Materials	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	9	9	
Clay, sandy, gray-----	5.4	14.4	
Pennsylvanian system:			
Upper (?) series:			
Shale, hard, gray-----	.2	14.6	
Shale, gray-----	6.3	20.9	
Shale, hard, gray-----	.1	21	
Shale, gray-----	12.6	33.6	
Sandstone, solid-----	.1	33.7	

Well 8/10W-10C1

Type of record: Driller's log.

Altitude: About 483 feet.

Materials	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil-----	6	6	
Shale, hard-----	2	8	Clay (?)
Sand and gravel-----	2	10	
Mud-----	8	18	
Sand, hard-----	2	20	
Mud-----	10	30	
Pennsylvanian system:			
Upper (?) series:			
Shale, sandy, dark-----	18	48	
Sandstone, slate, and coal-----	4	52	
Sandstone, hard-----	10	6	
Middle (?) series:			
Shale, light-----	55	117	
Shale, limy-----	25	142	
Limestone, hard-----	3	145	
Shale, gray-----	2	147	
Red rock-----	3	150	
Shale, green-----	1	151	
Shale, muddy-----	20	171	
Shale, gray-----	20	191	
Sandstone-----	17	208	
Sandstone, hard-----	7	215	
Shale, sandy-----	10	225	
Shale, dark-----	3	228	
Limestone, shell-----	2	230	
Shale, dark-----	30	260	
Sandstone-----	15	275	
Shale, gray-----	5	280	
Coal-----	5	285	Gas
Shale, gray-----	30	315	
Sandstone-----	5	320	

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

Well 8/10W-10C1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Coal-----	5	325	
Shale, dark-----	5	330	
Limestone, shell-----	3	333	
Coal-----	4	337	
Fire clay-----	7	344	
Shale, gray-----	21	365	
Sandstone, hard-----	10	375	

Well 8/10W-10D1

Type of record: Driller's log.

Altitude: About 510 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	18	18	
Pennsylvanian system:			
Middle (?) series:			
Shale, blue-----	17	35	
Shale, dark-----	4	39	
Coal-----	2	41	
Fire clay-----	4	45	
Shale, sandy, broken-----	10	55	
Shale, dark-----	21	76	
Limestone-----	4	80	
Sandstone-----	27	107	
Slate-----	2	109	
Shale, sandy, dark-----	16	125	
Coal-----	--	125	

Well 8/10W-10D2

Type of record: Driller's log.

Altitude: About 510 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	25	25	
Hardpan-----	20	45	
Pennsylvanian system:			
Upper (?) series:			
Sandstone, broken, and shale-----	27	72	
Shale, dark, and sandstone-----	18	90	
Coal-----	3	93	
Shale, gray-----	7	100	
Sandstone-----	12	112	
Middle (?) series:			
Shale, gray-----	71	183	
Limestone-----	1	184	
Shale, gray-----	11	195	
Shale, dark-----	24	219	
Sandstone-----	30	249	

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

Well 8/10W-10D2--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	19	268	
Coal-----	1	269	
Shale, gray-----	16	285	
Limestone, sandy-----	5	290	
Shale, gray-----	12	302	
Limestone-----	2	304	
Slate-----	11	315	
Coal-----	2	317	
Slate-----	2	319	
Limestone-----	2	321	

Well 8/10W-10H1

Type of record: Driller's log.

Altitude: About 540 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	8	8	
Hardpan-----	17	25	
Pennsylvanian system:			
Upper (?) series:			
Slate-----	11	36	
Sandstone-----	14	50	
Slate-----	10	60	
Unknown, sandy-----	10	70	
Shale-----	8	78	
Coal-----	1	79	
Fire clay-----	1	80	
Shale-----	10	90	
Shale, sandy-----	25	115	
Middle (?) series:			
Shale-----	109	224	
Coal-----	1	225	
Shale-----	5	230	
Limestone-----	2	232	
Shale-----	5	237	
Limestone-----	5	242	
Red rock-----	2	244	
Shale-----	9	253	
Limestone-----	11	264	
Shale-----	16	280	
Shale, sandy-----	7	287	
Shale-----	43	330	
Limestone-----	3	333	
Coal-----	3	336	
Fire clay-----	2	338	
Shale-----	5	343	
Limestone-----	1	344	
Shale-----	7	351	

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

Well 8/10W-10P1		Altitude: About 610 feet.	
Type of record: Driller's log.			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	10	10	
Pennsylvanian system:			
Upper (?) series:			
Shale, sandy, light-gray-----	21	31	
Limestone, tan-----	.4	31.4	
Shale, sandy, light-gray-----	5.2	36.6	
Coal-----	1.4	38	
Fire clay-----	7	45	
Shale, sandy-----	23	68	
Shale and brown siderite bands---	10	78	
Shale, dark-gray-----	22	100	
Slate, black-----	4	104	
Coal-----	.4	104.4	
Fire clay-----	1.6	106	
Sandstone with laminations of shale-----	16	122	
Shale, sandy-----	23.6	145.6	
Coal-----	1	146.6	
Fire clay-----	1.4	148	
Shale, sandy-----	17	165	
Shale with dark-gray siderite bands-----	15	180	
Sandstone, calcareous-----	11	191	
Limestone, hard-----	3	194	
Sandstone, coarse-grained-----	16	210	
Sandstone, calcareous-----	14	224	
Slate, flaky, black-----	4	228	
Coal-----	1.6	229.6	
Shale, calcareous-----	5.4	235	
Sandstone, calcareous, hard-----	10	245	
Shale, soft, dark-gray-----	10	255	
Sandstone, fine-grained-----	3	258	
Middle (?) series:			
Shale, dark-gray-----	33	291	
Shale, dark, containing bluff sideritic bands-----	3	294	
Coal-----	1.6	295.6	
Fire clay-----	9.4	305	
Limestone (2 limestones with about 1 ft. break between them)-----	7	312	
Shale, light, with flakes of green and yellow mottled (almost white)-----	2	314	
Shale, red (pink)-----	3	317	
Shale, gray-----	28	345	
Slate and black coal-----	1	346	

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

Well 8/10W-10P1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Shale, sandy, and sandstone-----	54	400	
Coal-----	3	403	
Fire clay-----	4	407	
Shale, dark-gray-----	8	415	
Sandstone, calcareous, and sandy limestone-----	24	439	
Shale-----	2	441	
Coal-----	3	444	
Slate, black-----	3	447	
Fire clay-----	3	450	

Well 8/10W-11N1

Type of record: Driller's log.

Altitude: About 576 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	20	20	
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	20	40	
Shale, dark-----	6	46	
Limestone-----	2	48	
Sandstone-----	6	54	
Shale, gray-----	40	94	
Coal-----	2	96	
Limestone and shale-----	14	110	
Shale, gray-----	9	119	
Sandstone-----	59	178	
Limestone-----	13	191	
Shale, gray-----	8	199	
Limestone-----	9	208	
Shale-----	27	235	
Limestone-----	8	243	
Red rock-----	5	248	
Shale, green-----	52	300	
Coal-----	3	303	
Shale-----	77	380	
Limestone-----	5	385	
Coal-----	5	390	
Shale-----	108	498	T. D. 895 ft.

Well 8/10W-11P1

Type of record: Driller's log.

Altitude: About 554 feet.

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

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

Well 8/10W-11P1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Shale, black-----	10	28	
Shale, dark-----	4	32	
Coal-----	1	33	
Fire clay-----	3	36	
Shale, gray-----	16	52	
Shale, dark-----	10	62	
Shale, and sandy limestone-----	11	73	
Shale, sandy, gray-----	23	96	
Shale, dark-----	10	106	
Coal-----	3	109	
Shale, gray-----	5	114	
Limestone-----	2	116	
Shale, gray-----	24	140	
Shale, dark-----	30	170	
Shale, gray-----	14	184	
Limestone-----	2	186	
Shale, gray-----	1	187	
Limestone-----	3	190	
Shale, gray-----	5	195	
Red rock-----	5	200	
Shale, green-----	7	207	
Sandstone-----	11	218	
Shale, sandy, gray-----	47	265	
Shale, dark-----	16	281	
Coal-----	4	285	
Fire clay-----	6	291	
Limestone-----	4	295	
Shale, sandy, gray-----	13	308	
Shale, gray-----	7	315	
Shale, dark-----	10	325	
Coal-----	5	330	
Limestone-----	30	360	
Shale, dark-----	5	365	
Limestone-----	3	368	
Slate, dark-----	3	371	
Sandstone-----	11	382	
Limestone, sandy-----	3	385	
Shale, sandy-----	25	410	
Shale, dark-----	60	470	
Slate, black-----	2	472	
Limestone, black-----	5	477	
Coal-----	3	480	
Shale and broken limestone-----	5	485	
Sandstone-----	27	512	W. B., show of oil

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

Well 8/10W-11P2

Type of record: Driller's log.

Altitude: About 552 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Drift-----	20	20	
Sand-----	2	22	
Pennsylvanian system:			
Middle (?) series:			
Coal-----	2	24	
Shale, gray-----	16	40	
Shale, dark-----	45	85	
Limestone, sandy-----	10	95	
Coal-----	3	98	
Shale, gray-----	72	170	
Limestone, shells-----	2	172	
Shale, gray-----	4	176	
Limestone, shells-----	2	178	
Shale, green-----	1	179	
Limestone and red rock-----	5	184	
Shale, light-----	41	225	
Coal-----	2	227	
Shale, gray-----	59	286	
Shale, sandy, hard, gray-----	14	300	
Shale, soft, gray-----	18	318	
Coal-----	3	321	
Shale-----	15	336	
Slate, black-----	4	340	
Shale, light-----	15	355	
Limestone-----	10	365	T. D. 1,160 ft.

Well 8/10W-11Q1

Type of record: Driller's log.

Altitude: About 520 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	18	18	
Gravel-----	1	19	
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	21	40	
Sandstone, broken-----	37	77	
Shale, gray-----	13	90	
Sandstone-----	18	108	
Sandstone, broken-----	19	127	
Shale, gray-----	21	148	
Limestone, sandy-----	5	153	
Shale, gray-----	6	159	
Limestone-----	6	165	
Shale, gray-----	1	166	
Red rock-----	5	171	

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

Well 8/10W-11Q1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Shale, green-----	2	173	
Sandstone-----	10	183	
Sandstone, broken-----	55	238	
Shale, gray-----	10	248	
Sandstone, shaly-----	20	268	
Sandstone-----	4	272	
Limestone, sandy-----	11	283	
Shale, dark-gray-----	12	295	
Slate, black, and coal-----	10	305	
Shale, light-gray-----	25	330	
Limestone-----	1	331	
Shale-----	8	339	
Limestone, dark-brown-----	5	344	
Coal-----	2	346	
Shale, gray-----	4	350	
Sandstone, shaly-----	38	388	
Shale, sandy-----	12	400	
Sandstone, broken-----	43	443	
Slate and limestone shell-----	11	454	
Limestone-----	2	456	
Slate, black-----	7	463	
Sandstone, shaly-----	15	478	Show of oil
Sandstone-----	23	501	W. B.

Well 8/10W-13F1

Type of record: Driller's log.

Altitude: About 525 feet.

Dug well-----	27	27	
Pennsylvanian system:			
Middle series:			
Shale-----	23	50	
Sandstone-----	8	58	
Limestone-----	1	59	
Shale, dark-----	5	64	
Coal-----	1	65	
Fire clay-----	3	68	

Well 8/10W-14K1

Type of record: Driller's log.

Altitude: About 543 feet.

Quaternary system:			
Recent and Pleistocene (?) series:			
Clay, yellow, to blue shale-----	38	38	
Pennsylvanian system:			
Middle (?) series:			
Coal-----	2	40	W. B.
Shale, soft, blue to gray-----	35	75	
Sandstone, soft, yellow-----	7	82	

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

Well 8/10W-14K1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	10	92	
Shale, sandy, gray-----	16	108	
Shale, gray-----	6	114	
Shale, slaty, dark-----	4	118	
Coal, soft, dirty-----	4	122	
Shale, gray-----	13	135	
Limestone, gray, sandy at base---	8	143	
Shale, gray to dark to white----	52	195	
Limestone, hard, gray-----	15	210	
Shale, white-----	4	214	
Limestone, shaly, white-----	18	232	
Shale, gray-----	28	260	
Limestone, slightly broken-----	35	295	
Coal-----	5	300	
Shale, sandy-----	15	315	
Limestone, gray-----	3	318	
Shale, light-gray-----	12	330	
Shale, dark-----	55	385	
Limestone, hard, gray-----	10	395	
Coal-----	5	400	
Shale, dark to gray-----	14	414	T. D. 1,659 ft.

Well 8/10W-14L2

Type of record: Driller's log.

Altitude: About 525 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	18	18	
Gravel-----	4	22	W. B.
Clay-----	18	40	
Pennsylvanian system:			
Middle (?) series:			
Shale-----	20	60	
Shale, sandy-----	20	80	
Shale, dark-----	20	100	
Coal-----	2	102	
Shale, sandy-----	13	115	
Shale, gray-----	10	125	
Sandstone-----	5	130	
Limestone-----	7	137	
Shale, sandy-----	23	160	
Shale, dark-----	8	168	
Coal-----	1	169	
Sandstone, hard-----	6	175	
Shale, gray-----	13	188	
Limestone, sandy-----	8	196	
Shale, sandy-----	6	202	

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

Well 8/10W-14L2--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Sandstone-----	6	208	
Shale, gray-----	17	225	
Sandstone-----	15	240	
Sandstone, shaly-----	8	248	
Sandstone-----	4	252	
Shale, gray-----	28	280	
Coal-----	1	281	
Shale, sandy-----	27	308	
Shale, dark-----	12	320	
Coal-----	2	322	
Shale, gray-----	36	358	
Sandstone-----	7	365	
Coal-----	1	366	
Shale, sandy-----	11	377	T. D. 822 ft.

Well 8/10W-15E1

Type of record: Driller's log.

Altitude: About 575 feet.

Record missing-----	42	42	
Pennsylvanian system:			
Middle (?) series:			
Shale, blue-----	10	52	
Limestone, gray-----	1	53	
Shale, dark, and coal-----	3	56	
Shale, gray-----	9	65	
Sandstone-----	5	70	
Shale, gray-----	15	85	
Slate, gray-----	5	90	
Slate, dark-----	6	96	
Coal-----	3	99	
Fire clay-----	2	101	
Shale-----	3	104	
Sandstone-----	5	109	
Shale, white-----	15	124	
Limestone, brown-----	1	125	
Shale, light-----	5	130	
Shale, sandy-----	4	134	
Sandstone-----	28	162	W. B.

Well 8/10W-15H1

Type of record: Driller's log.

Altitude: About 530 feet.

Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	10	10	

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

Well 8/10W-15H1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Sandstone-----	10	20	
Shale, blue-----	30	50	
Shale, dark-gray-----	20	70	
Shale, sandy, light-----	28	98	
Shale, sandy, brown-----	20	118	
Shale, gray-----	27	145	
Shale, sandy-----	5	150	
Shale, gray-----	51	201	
Limestone-----	2	203	
Shale, gray-----	11	214	
Limestone-----	6	220	
Shale, light-----	23	243	
Shale, sandy-----	10	253	
Limestone, brown-----	7	260	
Shale, light-gray-----	8	268	
Limestone, sandy-----	5	273	
Limestone, gray-----	7	280	
Shale, gray-----	5	285	
Coal, shaly, dark-----	2	287	
Shale, gray-----	13	300	
Shale, sandy, dark-----	10	310	
Shale, gray-----	27	337	
Coal-----	3	340	
Shale-----	35	375	
Limestone, hard, light-----	4	379	
Limestone, hard, brown-----	3	382	
Shale, dark-gray-----	5	387	T. D. 850 ft.

Well 8/10W-16C1

Type of record: Driller's log.

Altitude: About 600 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	14	14	
Pennsylvanian system:			
Upper series:			
Sandstone, soft-----	46	60	
Middle series:			
Limestone, hard-----	4	64	W. B.
Shale, gray-----	7	71	
Coal-----	1	72	
Limestone-----	3	75	W. B.
Shale, sandy-----	9	84	

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

Well 8/10W-16C2

Type of record: Driller's log.

Altitude: About 612 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	10	10	
Pennsylvanian system:			
Upper series:			
Sandstone, red-----	35	45	
Sandstone, white-----	19	64	
Middle series:			
Coal-----	1	65	
Limestone-----	7	72	
Shale, gray-----	3	75	
Slate, black-----	5	80	
Shale, light-----	1	81	

Well 8/10W-16D1

Type of record: Driller's log.

Altitude: About 590 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	17	17	
Pennsylvanian system:			
Upper series:			
Sandstone, red-----	6	23	
Sandstone-----	25	48	W. B.
Middle series:			
Shale, light-----	2	50	
Limestone, hard-----	4	54	W. B.
Shale, dark-----	4	58	
Coal-----	2	60	
Fire clay-----	3	63	
Shale, dark-----	7	70	
Limestone, hard-----	4	74	
Limestone, broken-----	6	80	

Well 8/10W-16H1

Type of record: Driller's log.

Altitude: About 612 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	12	12	
Pennsylvanian system:			
Upper series:			
Sandstone-----	32	44	
Middle series:			
Limestone, hard-----	5	49	
Shale, light-----	12	61	
Limestone, hard-----	3	64	
Shale, blue-----	16	80	

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

Well 8/10W-16H1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	1	81	
Shale, dark-----	34	115	
Limestone, hard-----	1	116	
Sandstone-----	9	125	W. B.
Shale, light-----	43	168	
Sandstone, white-----	12	180	W. B.
Shale, gray-----	15	205	
Shale, sandy-----	44	249	
Coal and black slate-----	2	251	
Shale, gray-----	69	320	
Coal-----	2	322	
Shale, light-----	13	335	
Limestone, shell-----	3	338	
Red rock-----	4	342	
Shale, green-----	23	365	
Sandstone, coarse, gray-----	30	395	
Shale, sandy-----	28	423	
Coal, soft-----	2	425	T. D. 968 ft.

Well 8/10W-16R1

Type of record: Driller's log.

Altitude: About 581 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	30	30	
Pennsylvanian system:			
Middle series:			
Limestone-----	10	40	
Shale, gray-----	30	70	
Shale, blue-----	50	120	
Sandstone-----	15	135	
Shale, blue-----	17	152	
Coal-----	2	154	
Shale, gray-----	6	160	
Shale, blue-----	35	195	
Shale, sandy-----	38	233	
Coal-----	2	235	
Shale, blue-----	15	250	
Sandstone-----	10	260	W. B.
Shale, sandy-----	5	265	
Shale, blue-----	55	320	
Limestone-----	5	325	
Shale, black-----	15	340	
Shale, gray-----	5	345	
Sandstone-----	15	360	
Shale, sandy-----	40	400	
Coal-----	2	402	T. D. 1,818 ft.

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

Well 8/10W-17H1

Type of record: Driller's log.

Altitude: About 580 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	15	15	
Hardpan-----	35	50	W. B.
Pennsylvanian system:			
Middle series:			
Shale, soft-----	30	80	
Shale, dark-----	9	89	
Limestone, hard-----	1	90	
Coal-----	2	92	W. B.
Fire clay-----	3	95	
Limestone, broken-----	5	100	
Shale, gray-----	15	115	
Shale, dark-----	14	129	
Coal-----	2	131	
Fire clay-----	4	135	
Limestone, sandy-----	3	138	
Sandstone-----	8	146	W. B.
Shale, dark-----	15	161	

Well 8/10W-18C1

Type of record: Driller's log.

Altitude: About 470 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	16	16	
Hardpan-----	3	19	
Mud, blue-----	56	75	
Quicksand-----	21	96	W. B.
Pennsylvanian system:			
Middle series:			
Limestone, sandy-----	4	100	
Sandstone, light-----	9	109	W. B.
Shale, dark-----	10	119	

Well 8/10W-18J3

Type of record: Driller's log.

Altitude: About 590 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	25	25	
Sand-----	17	42	
Pennsylvanian system:			
Upper series:			
Shale-----	13	55	
Sandstone-----	27	82	W. B.

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

Well 8/10W-19A1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	22	22	
Sand and muck-----	12	34	
Pennsylvanian system:			
Upper series:			
Sandstone, white-----	26	60	W. B.
Middle series:			
Coal and slate-----	4	64	
Fire clay-----	2	66	
Limestone, hard-----	2	68	

Well 8/10W-19D1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	20	20	
Sandstone, soft-----	7	27	Cemented sand (?)
Mud-----	2	29	
Pennsylvanian system:			
Upper series:			
Sandstone, solid-----	23	52	
Sandstone, gray-----	17	69	
Middle series:			
Limestone-----	1	70	

Well 8/10W-19H1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	17	17	
Pennsylvanian system:			
Upper series:			
Sandstone-----	8	25	
Sandstone, gray-----	23	48	
Middle series:			
Limestone, hard-----	2	50	

Well 8/10W-19J1

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

Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	18	18	
Sandstone-----	2	20	W. B.; cemented sand (?)
Sandstone, red-----	3	23	Cemented sand (?)

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

Well 8/10W-19J1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Hardpan-----	23	46	
Hardpan, yellow-----	6	52	
Pennsylvanian system:			
Upper series:			
Sandstone-----	3	55	W. B.
Middle series:			
Limestone-----	1	56	

Well 8/10W-19J2

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	18	18	
Pennsylvanian system:			
Upper series:			
Sandstone, soft-----	12	30	
Sandstone, reddish-----	10	40	
Sandstone, light-----	7	47	W. B.
Sandstone, reddish-----	6	53	
Middle series:			
Limestone-----	--	53	

Well 8/10W-19P1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	22	22	
Sand and gravel-----	23	45	
Pennsylvanian system:			
Middle series:			
Limestone, hard-----	4	49	W. B.
Shale, black-----	7	56	
Shale, light-----	18	74	
Limestone, hard-----	2	76	
Slate-----	4	80	
Coal-----	2	82	
Shale, dark-----	3	85	
Sandstone-----	10	95	W. B.
Shale, sandy-----	8	103	

Well 8/10W-19R2

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

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

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

Well 8/10W-20N1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Upper series:			
Sandstone-----	30	47	W. B. 40 to 47 ft.
Middle series:			
Limestone-----	2	49	

Well 8/10W-20N2

Type of record: Driller's log.		Altitude: About 545 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	30	30	
Pennsylvanian system:			
Upper series:			
Sandstone, red-----	10	40	
Sandstone, white-----	10	50	W. B.
Middle series:			
Shale, blue-----	4	54	

Well 8/10W-21K1

Type of record: Driller's log.		Altitude: About 530 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	12	12	
Hardpan-----	8	20	
Pennsylvanian system:			
Middle series:			
Shale, gummy-----	20	40	
Limestone, broken-----	8	48	
Slate, gray-----	22	70	
Slate, black-----	10	80	
Limestone, sandy-----	4	84	W. B.
Slate, gray-----	29	113	
Coal-----	2	115	
Fire clay-----	5	120	
Limestone, sandy-----	10	130	
Slate, gray-----	37	167	
Sandstone-----	23	190	
Slate, black-----	5	195	W. B.
Fire clay-----	5	200	
Limestone-----	6	206	
Shale, sandy-----	17	223	
Shale, dark-----	7	230	
Sandstone-----	20	250	W. B.
Shale, dark-----	15	265	

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

Well 8/10W-22J1

Type of record: Driller's log.

Altitude: About 525 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	23	23	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	15	38	
Slate, dark-----	10	48	
Coal-----	1	49	
Fire clay-----	3	52	
Shale, sandy-----	8	60	
Shale, gray-----	12	72	
Shale, dark-----	13	85	
Shale, sandy-----	21	106	
Sandstone-----	19	125	W. B.
Slate, black-----	5	130	
Coal-----	2	132	
Fire clay-----	3	135	
Shale, gray-----	9	144	
Sandstone-----	21	165	W. B.
Shale, dark-----	2	167	

Well 8/10W-22M1

Type of record: Driller's log.

Altitude: About 530 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	15	15	
Hardpan-----	9	24	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	4	28	
Slate, soft, dark-----	22	50	
Limestone, hard-----	3	53	
Coal and fire clay-----	5	58	
Limestone, hard-----	3	61	
Sandstone-----	11	72	W. B.
Shale, gray-----	8	80	
Shale, sandy-----	14	94	
Slate, black-----	4	98	
Coal-----	4	102	
Fire clay-----	3	105	
Limestone, hard-----	2	107	
Shale, sandy-----	28	135	
Limestone, hard-----	4	139	
Shale, sandy-----	35	174	W. B.
Slate, dark-----	6	180	
Coal-----	5	185	
Shale, sandy-----	27	212	W. B.

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

Well 8/10W-22M1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, dark-----	25	237	
Shale, sandy-----	--	237	

Well 8/10W-23A1

Type of record: Driller's log.

Altitude: About 506 feet.

Quaternary system:			
Recent and Pleistocene (?) series:			
Clay, sandy-----	20	20	Clay (?)
Shale, sandy, gray-----	15	35	
Mud, soft, green-----	14	49	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	13	64	T. D. 793 ft.
Coal and slate-----	2	66	
Fire clay-----	4	70	
Shale, light-gray-----	82	152	
Limestone-----	3	155	
Shale-----	2	157	
Red rock and shale-----	5	162	
Shale, gray-----	24	186	
Shale, dark-gray-----	18	204	
Shale, gray-----	41	245	
Coal-----	2	247	
Shale, light-gray-----	8	255	
Limestone, sandy-----	10	265	
Shale-----	10	275	
Shale, gray-----	5	280	
Slate, dark-----	7	287	
Coal-----	2	289	
Shale, soft, dark-----	21	310	
Shale, light-gray-----	17	327	
Sandstone-----	5	332	

Well 8/10W-23C1

Type of record: Driller's log.

Altitude: About 530 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	13	13	Cemented sand (?)
Sandstone-----	7	20	
Sand and gravel-----	23	43	
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	42	85	
Sandstone-----	33	118	
Shale, dark-----	15	133	

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

Well 8/10W-23C1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Sandstone, shaly-----	11	144	
Shale, gray-----	56	200	
Limestone-----	7	207	
Shale, gray-----	4	211	
Red rock-----	4	215	
Sandstone, shaly-----	86	301	
Coal-----	2	303	
Shale, sandy-----	12	315	
Limestone-----	4	319	
Shale, sandy-----	23	342	
Coal-----	1	343	
Shale, dark-gray-----	37	380	
Limestone-----	6	386	T. D. 828 ft.

Well 8/10W-23G1

Type of record: Driller's log.

Altitude: About 510 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay and gravel-----	16	16	
Hardpan-----	22	38	
Sand-----	2	40	W. B., gas
Hardpan-----	17	57	
Pennsylvanian system:			
Middle (?) series:			
Shale, dark-----	8	65	
Coal-----	1	66	
Shale, gray-----	11	77	
Limestone-----	5	82	
Shale, limy, broken-----	18	100	
Shale, gray-----	29	129	
Limestone-----	2	131	
Shale, gray-----	10	141	
Limestone-----	4	145	
Coal, shale, and red rock-----	3	148	

Well 8/10W-23J1

Type of record: Driller's log.

Altitude: About 510 feet.

Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	15	15	
Gravel and clay-----	15	30	
Clay-----	20	50	
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	26	76	
Slate, black, and coal-----	2	78	

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

Well 8/10W-23J1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	22	100	
Sandstone-----	18	118	W. B.
Shale, gray-----	12	130	
Sandstone-----	15	145	W. B.
Shale, gray-----	7	152	
Limestone-----	3	155	
Shale, gray-----	3	158	
Limestone-----	4	162	
Red rock-----	5	167	
Shale, gray-----	12	179	
Limestone-----	3	182	

Well 8/10W-23K1

Type of record: Driller's log.

Altitude: About 507 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	10	10	
Sand-----	1	11	
Sandstone-----	1	12	Cemented sand (?)
Hardpan-----	38	50	
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	16	66	
Limestone-----	3	69	
Slate-----	7	76	
Coal-----	2	78	
Fire clay-----	4	82	
Shale, sandy-----	33	115	
Slate-----	8	123	
Sandstone-----	5	128	
Shale, gray-----	23	151	
Limestone-----	4	155	
Shale, gray, and red rock-----	9	164	
Shale, gray-----	6	170	
Sandstone-----	6	176	
Shale, gray-----	68	244	
Slate, black-----	2	246	
Fire clay-----	3	249	
Shale-----	7	256	
Limestone, sandy-----	10	266	
Shale, gray-----	14	280	
Shale, dark-----	9	289	
Coal-----	5	294	
Shale, gray-----	31	325	
Sandstone-----	7	332	
Shale, gray-----	10	342	

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

Well 8/10W-24A1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	17	62	W. B.
Slate, dark-----	8	70	
Coal-----	3	73	
Shale, light-----	2	75	
Limestone, hard-----	2	77	
Shale, gray-----	8	85	
Shale, sandy, dark-----	35	120	
Shale, dark-----	15	135	
Shale, light-----	14	149	
Limestone, hard-----	5	154	
Red rock-----	11	165	
Limestone, broken, and sandstone-----	13	178	
Shale, dark-----	12	190	
Shale, sandy-----	10	200	

Well 8/10W-24E1

Type of record: Driller's log.

Altitude: About 516 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	16	16	
Sand-----	2	18	
Hardpan-----	14	32	
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	42	74	Gas
Coal-----	1	75	
Fire clay-----	3	78	
Shale, gray-----	47	125	
Shale, sandy-----	10	135	
Shale, gray-----	21	156	
Limestone-----	1	157	
Shale, gray-----	1	158	
Limestone-----	5	163	
Shale, gray-----	4	167	
Limestone-----	18	185	
Shale, dark-----	7	192	
Shale, sandy-----	4	196	
Shale, dark-----	47	243	
Coal-----	1	244	
Fire clay-----	8	252	
Limestone-----	5	257	
Shale, sandy-----	13	270	
Shale, dark-----	20	290	
Coal-----	5	295	
Shale-----	28	323	
Limestone, sandy-----	3	326	

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

Well 8/10W-25L1

Type of record: Driller's log.

Altitude: About 520 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Record missing-----	40	40	
Pennsylvanian system:			
Middle series:			
Shale-----	39	79	
Shale, sandy-----	5	84	
Shale-----	1	85	
Limestone-----	3	88	
Coal-----	2	90	
Shale-----	8	98	
Shale, sandy-----	7	105	
Shale-----	12	117	
Sandstone-----	18	135	
Shale, dark-----	2	137	
Shale, sandy-----	25	162	
Sandstone-----	5	167	
Shale, soft-----	7	174	
Limestone-----	2	176	

Well 8/10W-25M1

Type of record: Driller's log.

Altitude: About 520 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, red and hardpan-----	25	25	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	13	38	
Shale, soft, gray-----	12	50	
Shale, gray-----	18	68	
Shale, sandy, dark-----	14	82	
Limestone, hard-----	2	84	
Coal-----	2	86	W. B.
Fire clay-----	5	91	
Shale, gray-----	5	96	
Limestone-----	4	100	
Shale, sandy-----	30	130	
Sandstone, dark-----	15	145	W. B.
Sandstone, gray-----	18	163	W. B.
Shale, gray-----	4	167	
Limestone, hard-----	--	167	

Well 8/10W-26B1

Type of record: Driller's log.

Altitude: About 500 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	17	17	
Hardpan-----	3	20	

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

Well 8/10W-26P1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale-----	30	70	
Shale, sandy-----	6	76	
Shale-----	17	93	
Sandstone-----	3	96	
Shale-----	7	103	
Limestone-----	4	107	
Shale, sandy-----	33	140	
Sandstone-----	35	175	
Shale-----	13	188	

Well 8/10W-26P2

Type of record: Driller's log.

Altitude: About 510 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	18	18	
Hardpan-----	22	40	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	21	61	
Limestone-----	3	64	
Shale, gray-----	9	73	
Sandstone, broken, and shale-----	30	103	W. B. 82 to 90 ft.
Shale, black-----	5	108	
Shale, gray-----	3	111	
Limestone-----	1	112	
Shale, sandy, gray-----	15	127	
Shale, dark-----	16	143	
Sandstone-----	49	192	
Shale, gray-----	2	194	
Limestone-----	--	194	

Well 8/10W-26R1

Type of record: Driller's log.

Altitude: About 512 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	19	19	
Quicksand-----	20	39	
Muck, blue-----	9	48	
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	11	59	
Limestone, sandy-----	5	64	
Shale, gray-----	18	82	
Sandstone-----	8	90	
Slate-----	12	102	

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

Well 8/10W-26R1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Limestone-----	2	104	
Shale-----	21	125	
Shale, sandy-----	45	170	
Sandstone-----	6	176	W. B.
Slate, white-----	2	178	
Limestone-----	1	179	
Fire clay-----	1	180	
Limestone-----	6	186	
Shale, gray-----	6	192	
Red rock-----	3	195	
Limestone-----	2	197	
Shale, sandy-----	13	210	
Shale, gray-----	65	275	
Coal-----	3	278	
Slate-----	2	280	
Fire clay-----	2	282	
Shale, sandy-----	18	300	
Slate-----	10	310	
Slate, black-----	8	318	
Coal-----	4	322	
Shale-----	3	325	T. D. 814 ft.

Well 8/10W-27J1

Type of record: Driller's log.

Altitude: About 501 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay and sand-----	18	18	
Gravel-----	6	24	
Sand and shale-----	39	63	Clay (?)
Shale, sandy, and gravel-----	21	84	Clay (?)
Pennsylvanian system:			
Middle (?) series:			
Shale-----	3	87	
Sandstone, broken-----	23	110	
Coal-----	1	111	
Shale-----	9	120	
Limestone-----	2	122	
Shale, sandy-----	18	140	
Sandstone, shaly-----	15	155	
Sandstone-----	43	198	W. B.
Shale-----	5	203	
Limestone-----	3	206	
Shale-----	3	209	
Red rock-----	2	211	
Shale-----	6	217	
Limestone, sandy-----	6	223	T. D. 865 ft.

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

Well 8/10W-27M1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	20	20	
Hardpan-----	30	50	
Pennsylvanian system:			
Middle series:			
Shale, brown-----	19	69	
Shale, dark-----	5	74	W. B.
Shale, gray-----	31	105	
Limestone-----	3	108	
Shale, gray-----	5	113	
Sandstone-----	5	118	
Shale, gray-----	25	143	
Sandstone-----	2	145	
Slate, dark-----	6	151	
Limestone, sandy-----	10	161	
Shale, gray-----	5	166	
Sandstone-----	17	183	

Well 8/10W-27P1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	17	17	
Hardpan and gravel-----	28	45	
Mud and gravel-----	32	77	
Pennsylvanian system:			
Middle series:			
Shale, black-----	21	98	
Limestone, hard-----	1	99	
Sandstone-----	4	103	W. B.
Limestone, hard-----	4	107	
Shale, sandy-----	19	126	

Well 8/10W-28K1

Type of record: Driller's log. Altitude: About 521 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	15	15	
Hardpan-----	23	38	
Sand and gravel-----	7	45	W. B.
Hardpan-----	18	63	
Shale, soft-----	12	75	Clay (?)
Boulders-----	4	79	
Shale, soft-----	11	90	Clay (?)
Boulders-----	3	93	

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

Well 8/10W-28K1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Shale, dark-----	7	100	
Shale, sandy-----	25	125	
Limestone, hard-----	3	128	W. B.
Shale, sandy, gray-----	42	170	
Slate, dark-----	13	183	
Shale, sandy, gray-----	17	200	
Shale, dark-----	10	210	
Shale, sandy-----	30	240	
Shale, soft, dark-----	5	245	
Shale, sandy-----	11	256	
Limestone, hard-----	5	261	
Shale, gray-----	3	264	
Red rock, cavey-----	5	269	
Limestone-----	3	272	
Shale, light-----	18	290	
Shale, dark-----	31	321	
Limestone, hard-----	2	323	
Limestone, sandy-----	22	345	
Slate, gray-----	6	351	
Coal-----	4	355	
Shale, gray-----	6	361	
Limestone-----	2	363	T. D. 851 ft.

Well 8/10W-28L1

Type of record: Driller's log.

Altitude: About 500 feet.

Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	30	30	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	24	54	
Shale-----	16	70	
Coal-----	3	73	
Shale, white-----	22	95	
Limestone-----	3	98	
Shale, dark-----	42	140	
Coal-----	4	144	
Shale, white-----	6	150	
Shale-----	70	220	
Limestone, hard-----	4	224	
Shale, white-----	16	240	
Sandstone-----	15	255	
Coal-----	5	260	Gas
Shale, dark-----	20	280	
Sandstone-----	20	300	
Shale-----	20	320	

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

Well 8/10W-30M1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, dark-----	5	100	
Limestone-----	1	101	
Shale, dark-----	4	105	
Coal-----	1	106	
Fire clay-----	3	109	
Shale, gray-----	38	147	
Sandstone-----	13	160	
Shale-----	11	171	
Limestone-----	6	177	
Shale-----	5	182	
Limestone, sandy-----	28	210	
Shale, sandy-----	12	222	
Coal-----	1	223	
Limestone-----	15	238	
Shale, gray-----	57	295	
Limestone, sandy-----	5	300	
Shale, gray-----	2	302	
Limestone-----	7	309	
Shale, gray-----	3	312	
Red rock-----	3	315	
Shale, gray-----	9	324	
Limestone-----	2	326	
Shale, sandy-----	16	342	
Shale, dark-----	15	357	
Limestone, sandy-----	15	372	
Shale, dark-----	20	392	
Limestone-----	6	398	T. D. 887 ft.

Well 8/10W-30N1

Type of record: Driller's log.

Altitude: About 490 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay and sand-----	22	22	
Sand-----	2	24	W. B.
Hardpan, gray-----	29	53	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	21	74	
Limestone, shell-----	2	76	
Shale and streaks of limestone---	10	86	
Limestone, sandy-----	6	92	
Limestone, broken-----	8	100	
Shale, light-----	12	112	
Coal-----	3	115	
Fire clay-----	5	120	
Limestone, broken-----	15	135	
Shale, dark-----	6	141	

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

Well 8/10W-31H1

Type of record: Driller's log.

Altitude: About 540 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil and yellow sand-----	20	20	
Sand, dark-----	10	30	
Muck, blue, and sand-----	17	47	
Sand, gravel, and hardpan-----	11	58	
Sand-----	8	66	
Pennsylvanian system:			
Middle series:			
Shale-----	4	70	

Well 8/10W-31J1

Type of record: Driller's log.

Altitude: About 530 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	10	10	
Sand, runny-----	20	30	W. B.
Hardpan, gummy, blue-----	22	52	
Sand, coarse-----	4	56	W. B.
Pennsylvanian system:			
Middle series:			
Shale-----	20	76	

Well 8/10W-31L1

Type of record: Driller's log.

Altitude: About 490 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	36	36	
Mud, blue-----	8	44	
Mud, yellow-----	14	58	
Pennsylvanian system:			
Middle series:			
Slate, dark-----	25	83	
Limestone-----	2	85	
Shale, sandy-----	7	92	W. B.
Shale, gray-----	16	108	
Slate, dark-----	8	116	
Coal-----	2	118	
Fire clay-----	2	120	
Limestone, hard-----	3	123	
Sandstone, broken-----	12	135	W. B.
Shale, dark-----	16	151	

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

Well 8/10W-31P1

Type of record: Driller's log.

Altitude: About 510 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand-----	25	25	
Hardpan-----	25	50	
Sand, soft, dark-----	25	75	
Pennsylvanian system:			
Middle series:			
Slate, black-----	1	76	
Limestone-----	1	77	
Sand or gravel-----	3	80	W. B.; Conglomerate or filled solu- tion opening (?)

Well 8/10W-32C1

Type of record: Driller's log.

Altitude: About 552 feet.

Quaternary system:			
Recent and Pleistocene series:			
Glacial till-----	18	18	
Gravel-----	3	21	
Pennsylvanian system:			
Middle (?) series:			
Shale, white-----	18.5	39.5	
Limestone, hard, gray-----	4.5	44	
Shale, black-----	2	46	
Coal-----	4	50	W. B.
Shale, light-----	25	75	
Shale, dark-----	5	80	
Shale, gray-----	13	93	
Limestone-----	2	95	
Shale, black-----	8	103	
Sandstone, broken, gray, and shale-----	12	115	
Shale, sticky, brown and gray----	15	130	
Shale, black-----	3	133	
Coal-----	3	136	Gas
Shale, gray-----	29	165	
Limestone, hard, gray-----	6	171	
Shale, gray-----	4	175	
Shale, gray, and sandstone-----	7	182	
Shale, gritty, gray-----	28	210	
Limestone, hard-----	1	211	
Coal-----	5	216	
Shale, light-----	9	225	
Sandstone, light, and shale-----	70	295	
Limestone, hard-----	5	300	
Shale, purple and gray-----	8	308	
Limestone, sandy-----	1	309	

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

Well 8/10W-32J1

Type of record: Driller's log.

Altitude: About 506 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface clay-----	15	15	
Hardpan-----	17	32	
Pennsylvanian system:			
Middle (?) series:			
Slate and coal-----	6	38	
Fire clay-----	3	41	
Shale, sandy-----	9	50	
Shale, gray-----	12	62	
Slate, dark-----	10	72	
Coal-----	2	74	Gas
Fire clay-----	3	77	
Shale, dark-----	40	117	
Limestone-----	5	122	
Shale, sandy-----	8	130	
Shale, dark-----	14	144	
Slate, dark-----	8	152	
Coal-----	4	156	
Shale, gray-----	8	164	
Limestone, hard-----	4	168	
Shale, gray-----	9	177	
Shale, sandy-----	25	202	
Sandstone-----	33	235	
Limestone, hard-----	6	241	
Shale and red rock-----	11	252	
Limestone-----	4	256	
Shale, gray-----	19	275	
Shale, sandy-----	35	310	
Shale, dark-----	35	345	
Shale, sandy-----	10	355	
Shale, gray-----	13	368	
Slate, dark-----	7	375	
Coal-----	5	380	Gas; T. D. 867 ft.

Well 8/10W-33D1

Type of record: Driller's log.

Altitude: About 475 feet.

Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	14	14	
Red rock-----	8	22	Clay (?)
Hardpan-----	58	80	
Pennsylvanian system:			
Middle (?) series:			
Limestone-----	15	95	
Sandstone-----	17	112	W. B.
Slate, dark-----	10	122	
Coal-----	2	124	

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

Well 8/10W-33D1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Fire clay-----	2	126	
Limestone and sandstone-----	92	218	
Limestone, shell, hard-----	9	227	
Fire clay-----	2	229	
Red rock-----	9	238	
Limestone-----	6	244	
Fire clay-----	4	248	
Slate, dark-----	6	254	
Fire clay-----	6	260	
Slate, light-----	49	309	
Slate, dark-----	3	312	
Coal-----	1	313	
Fire clay-----	9	322	
Limestone-----	22	344	
Slate, dark-----	11	355	
Coal-----	3	358	
Slate, dark-----	6	364	
Slate, light-----	6	370	
Slate, dark-----	10	380	
Slate, light-----	10	390	
Slate, dark-----	6	396	
Coal-----	5	401	T. D. 788 ft.

Well 8/10W-33G2

Type of record: Driller's log.

Altitude: About 474 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	11	11	
Hardpan-----	22	33	
Shale, green-----	13	46	Clay (?)
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	17	63	
Limestone, sandy, medium-hard----	5	68	
Shale, gray-----	15	83	
Coal and black shale-----	1	84	
Shale, dark-----	9	93	
Limestone, sandy-----	23	116	
Shale, blue-----	2	118	
Limestone, sandy-----	8	126	
Limestone-----	7	133	
Sandstone-----	19	152	
Limestone, sandy-----	25	177	
Limestone, hard, brown-----	7	184	
Shale, blue-----	6	190	
Red rock-----	3	193	

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

Well 8/10-33G2--Continued

Materials	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Shale, dark-gray-----	12	205	
Shale and limestone-----	14	219	
Shale, dark-----	28	247	
Shale, sandy-----	14	261	
Shale, dark-----	18	279	
Coal-----	2	281	
Fire clay-----	7	288	
Limestone-----	7	295	
Shale and limestone-----	2	297	
Fire clay-----	3	300	
Shale, sandy-----	5	305	
Shale, gray-----	5	310	
Shale, dark-----	15	325	
Coal-----	4	329	Gas
Shale, dark-----	16	345	
Fire clay-----	12	357	
Coal-----	9	366	
Slate, gray-----	9	375	
Limestone, hard, dark-gray-----	2	377	
Coal-----	5	382	
Shale, gray-----	26	408	T. D. 758 ft.

Well 8/10-33K1

Type of record: Driller's log.

Altitude: About 495 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	23	23	
Shale, sandy, and hardpan-----	47	70	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	27	97	
Coal-----	1	98	
Limestone, sandy-----	2	100	
Sandstone-----	92	192	W. B.

Well 8/10W-33K2

Type of record: Driller's log.

Altitude: About 493 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	23	23	
Gravel-----	2	25	
Hardpan-----	29	54	
Sand and gravel-----	13	67	
Pennsylvanian system:			
Middle (?) series:			
Shale, sandy-----	25	92	

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

Well 8/10W-33K2--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Shale, dark-----	8	100	
Coal-----	2	102	
Fire clay-----	6	108	
Limestone-----	3	111	
Sandstone-----	87	198	W. B.
Shale, gray, and limestone-----	6	204	
Shale-----	2	206	
Limestone, hard-----	4	210	
Shale, gray-----	25	235	
Shale, sandy-----	27	262	
Limestone, sandy-----	8	270	
Shale, sandy-----	3	273	
Shale, light-----	12	285	
Coal-----	4	289	
Shale, light-----	6	295	
Limestone, sandy-----	24	319	
Shale, dark-----	12	331	
Coal-----	4	335	Gas
Shale, dark-----	12	347	
Shale, light-----	29	376	
Shale, dark-----	8	384	
Limestone, black-----	5	389	
Coal-----	3	392	Gas
Shale, dark-----	8	400	T. D. 786 ft.

Well 8/10W-33L1

Type of record: Driller's log.

Altitude: About 500 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	17	17	
Hardpan-----	28	45	
Pennsylvanian system:			
Middle series:			
Shale, light-----	27	72	
Shale, dark-----	12	84	
Limestone, hard-----	2	86	
Shale, soft, dark-----	6	92	
Shale, light-----	3	95	
Limestone, hard-----	4	99	
Sandstone, light-----	31	130	W. B.
Shale, dark-----	14	144	
Limestone-----	3	147	
Shale, dark-----	9	156	

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

Well 8/10W-33L4

Type of record: Driller's log.

Altitude: About 500 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil-----	8	8	
Clay, yellow-----	17	25	
Hardpan and gray sand-----	17	42	
Shale, muddy, yellow-----	5	47	Clay (?)
Pennsylvanian system:			
Middle series:			
Coal, soft-----	3	50	W. B.
Fire clay, soft-----	2	52	
Shale, gray-----	29	81	
Shale, hard, sandy-----	6	87	
Shale, dark-----	4	91	
Shale, sandy-----	2	93	
Sandstone-----	29	122	
Shale, dark-----	10	132	

Well 8/10W-33N2

Type of record: Driller's log.

Altitude: About 493 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	15	15	
Quicksand-----	18	33	W. B.
Gravel-----	7	40	W. B.
Pennsylvanian system:			
Middle (?) series:			
Shale, blue-----	25	65	
Coal-----	2	67	
Limestone and sandstone-----	21	88	
Shale, blue-----	7	95	
Shale, green-----	20	115	
Sandstone-----	30	145	
Coal-----	2	147	
Limestone-----	4	151	
Shale, sandy, gray-----	20	171	
Shale, gray-----	5	176	
Limestone, sandy-----	9	185	
Sandstone-----	50	235	W. B. 185 to 190. ft.
Shale, gray-----	3	238	
Limestone-----	7	245	
Shale, red-----	4	249	
Limestone-----	19	268	
Coal-----	2	270	
Shale-----	3	273	
Limestone-----	4	277	
Shale-----	7	284	

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

Well 8/10W-33N2--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Shale-----	14	298	
Limestone-----	16	314	
Shale-----	14	328	
Slate-----	2	330	
Coal-----	6	336	
Shale, sandy, gray-----	8	344	
Limestone-----	16	360	
Shale, sandy, gray-----	27	387	
Coal-----	4	391	Gas; T. D. 1,750 ft.

Well 8/10W-34A1

Type of record: Driller's log.

Altitude: About 490 feet.

Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	16	16	
Sand and gravel-----	9	25	
Pennsylvanian system:			
Middle (?) series:			
Shale, sandy-----	15	40	
Shale, muddy-----	22	62	
Limestone-----	2	64	
Sandstone-----	6	70	W. B.
Shale, sandy-----	34	104	
Coal-----	2	106	
Shale, gray-----	8	114	
Limestone, gray-----	4	118	
Shale, gray-----	5	123	
Shale, sandy-----	7	130	
Sandstone-----	44	174	
Shale, gray-----	5	179	
Sandstone-----	8	187	
Shale, gray-----	3	190	
Limestone-----	2	192	
Shale, gray-----	1	193	
Limestone, brown-----	4	197	
Shale, gray-----	5	202	
Limestone-----	2	204	
Sandstone-----	8	212	
Red rock-----	2	214	
Shale-----	28	242	
Sandstone-----	28	270	
Shale-----	18	288	
Coal-----	3	291	
Shale, gray-----	17	308	
Sandstone-----	7	315	

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

Well 8/10W-34A1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	16	331	
Coal-----	6	337	
Shale, gray-----	30	367	
Coal-----	3	370	
Shale, dark-----	10	380	
Limestone-----	5	385	
Slate and coal-----	3	388	T. D. 829 ft.

Well 8/10W-34G1

Type of record: Driller's log.

Altitude: About 480 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	15	15	
Sand, soft-----	5	20	
Shale, green-----	10	30	Clay (?)
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	8	38	
Sandstone, broken, and shale-----	34	72	W. B.
Sandstone, firm-----	6	78	
Slate and coal-----	1	79	
Shale, gray-----	9	88	
Sandstone, broken-----	12	100	
Sandstone-----	7	107	W. B.
Limestone, sandy-----	4	111	
Sandstone, broken-----	11	122	
Sandstone, firm-----	6	128	
Sandstone-----	19	147	
Shale, sandy-----	16	163	
Sandstone-----	6	169	
Shale, sandy-----	4	173	
Limestone-----	4	177	
Shale, gray and green-----	8	185	
Limestone and sandstone-----	8	193	
Sandstone, broken-----	4	197	
Shale, sandy-----	10	207	
Coal-----	2	209	Gas
Shale, gray-----	21	230	
Shale, sandy, gray-----	15	245	
Shale, dark-gray-----	17	262	
Coal-----	2	264	
Shale, gray-----	7	271	
Limestone, sandy-----	10	281	
Shale, sandy-----	19	300	
Shale, dark-----	6	306	
Coal-----	6	312	Gas

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

Well 8/10W-34G1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	7	319	
Coal-----	1	320	
Shale, gray-----	20	340	
Shale, sandy, and limestone-----	7	347	
Shale, sandy-----	7	354	
Limestone-----	5	359	
Coal-----	3	362	
Shale, gray-----	69	431	T. D. 816 ft.

Well 8/10W-34J1

Type of record: Driller's log.

Altitude: About 500 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	4	4	
Hardpan-----	21	25	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	15	40	
Shale, sandy-----	28	68	
Sandstone, dark-----	10	78	W. B.
Slate, black, and coal-----	7	85	
Shale, gray-----	7	92	
Shale, sandy-----	30	122	
Slate, dark-----	2	124	
Sandstone, dark-----	11	135	
Sandstone, gray-----	14	149	W. B.

Well 8/10W-34K1

Type of record: Driller's log.

Altitude: About 500 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	15	15	
Sand and gravel-----	10	25	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	32	57	
Sandstone-----	8	65	
Shale, sandy-----	23	88	
Sandstone-----	10	98	W. B.
Shale, gray-----	4	102	
Coal-----	2	104	
Shale, gray-----	21	125	
Sandstone-----	50	175	
Sandstone, broken-----	17	192	
Limestone-----	4	196	

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

Well 8/10W-34M2--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	67	82	
Pennsylvanian system:			
Middle series:			
Sandstone-----	8	90	W. B.
Shale, dark-----	9	99	
Coal-----	1	100	
Fire clay-----	3	103	
Shale, dark-----	7	110	
Limestone, hard-----	4	114	W. B.
Shale, gray-----	3	117	
Limestone, hard-----	2	119	
Shale, sandy-----	6	125	
Sandstone-----	6	131	W. B.

Well 8/10W-34P1

Type of record: Driller's log.

Altitude: About 490 feet.

Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	15	15	
Hardpan-----	20	35	
Pennsylvanian system:			
Middle series:			
Slate, muddy-----	32	67	
Limestone-----	8	75	W. B.
Limestone, sandy-----	31	106	

Well 8/10W-34Q1

Type of record: Driller's log.

Altitude: About 490 feet.

Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	15	15	
Hardpan-----	20	35	
Pennsylvanian system:			
Middle series:			
Slate, muddy-----	19	54	
Shale, gray-----	13	67	
Limestone, hard-----	4	71	W. B.
Shale, sandy-----	34	105	
Slate, black-----	5	110	
Coal-----	1	111	
Fire clay-----	4	115	
Shale, sandy-----	15	130	
Sandstone-----	50	180	W. B.

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

Well 8/10W-35D2

Type of record: Driller's log.

Altitude: About 519 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	15	15	
Hardpan and gravel-----	10	25	
Pennsylvanian system:			
Middle (?) series:			
Shale, dark-----	34	59	
Limestone-----	1	60	
Shale, dark-----	10	70	
Shale, gray-----	18	88	
Shale, sandy-----	12	100	
Slate, dark-----	5	105	
Coal-----	2	107	
Fire clay-----	5	112	
Shale, dark-----	41	153	
Shale, sandy-----	7	160	
Sandstone-----	15	175	W. B.
Shale, gray-----	9	184	
Limestone-----	1	185	
Shale, gray-----	3	188	
Limestone-----	4	192	
Shale, gray-----	68	260	
Shale, dark-----	19	279	
Coal-----	2	281	
Shale, gray-----	22	303	
Shale, sandy, dark-----	4	307	
Shale, dark-----	5	312	
Limestone, brown-----	6	318	
Coal-----	2	320	
Shale, dark-----	10	330	
Shale, gray-----	10	340	
Shale, dark-----	4	344	
Coal-----	3	347	
Shale, sandy-----	5	352	
Limestone, black-----	10	362	
Limestone, brown-----	7	369	
Shale, gray-----	6	375	
Limestone, sandy-----	9	384	T. D. 786 ft.

Well 8/10W-35F1

Type of record: Driller's log.

Altitude: About 510 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	10	10	
Hardpan-----	31	41	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	13	54	

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

Well 8/10W-35F1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	28	82	
Shale, dark-----	13	95	
Coal-----	3	98	W. B.
Fire clay, soft-----	10	108	
Shale, dark-----	17	125	
Sandstone-----	50	175	W. B.

Well 8/10W-35F2

Type of record: Driller's log.

Altitude: About 510 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	16	16	
Hardpan-----	22	38	
Pennsylvanian system:			
Middle series:			
Shale, light-----	7	45	
Shale, dark-----	15	60	
Limestone, shaly, broken-----	25	85	
Sandstone-----	10	95	
Shale, sandy-----	9	104	
Coal-----	1	105	
Shale, gray-----	40	145	
Sandstone-----	39	184	

Well 8/10W-35J1

Type of record: Driller's log.

Altitude: About 524 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	15	15	
Mud, blue-----	15	30	
Pennsylvanian system:			
Middle (?) series:			
Limestone, brown-----	4	34	
Shale, gray-----	16	50	
Shale, black-----	8	58	
Shale, gray-----	7	65	
Sandstone-----	5	70	
Shale, gray-----	14	84	
Coal-----	12	96	
Shale, gray-----	19	115	
Shale, sandy-----	5	120	
Sandstone-----	8	128	
Shale, sandy-----	37	165	
Slate, white-----	18	183	
Limestone-----	1	184	

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

Well 8/10W-35J1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	2	186	
Limestone-----	5	191	
Shale, gray-----	51	242	
Limestone-----	2	244	
Sandstone-----	4	248	
Shale, gray-----	29	277	
Coal-----	4	281	
Shale, gray-----	44	325	
Coal-----	4	329	
Shale, gray-----	9	338	
Slate, white-----	24	362	
Coal-----	3	365	
Shale, white-----	3	368	
Limestone-----	5	373	
Shale, dark-----	5	378	T. D. 830 ft.

Well 8/10W-35P1

Type of record: Driller's log.

Altitude: About 530 feet.

Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	20	20	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	65	85	
Sandstone-----	25	110	
Coal-----	2	112	
Shale-----	24	136	
Sandstone-----	54	190	W. B.
Limestone-----	3	193	
Shale-----	5	198	
Limestone-----	4	202	
Shale-----	10	212	
Sandstone-----	6	218	
Shale-----	68	286	
Coal-----	2	288	
Shale-----	8	296	
Sandstone-----	14	310	T. D. 824 ft.

Well 8/10W-36E1

Type of record: Driller's log.

Altitude: About 535 feet.

Quaternary system:			
Recent and Pleistocene series:			
Soil and clay-----	20	20	
Shale, muddy, blue-----	47	67	Clay (?)

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

Well 8/10W-36H1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	45	75	
Sandstone-----	10	85	
Shale, gray-----	5	90	
Limestone-----	3	93	
Shale, gray-----	19	112	
Sandstone-----	20	132	W. B.
Limestone-----	4	136	
Sandstone-----	39	175	W. B.
Shale, gray-----	7	182	
Limestone-----	5	187	
Shale, gray-----	53	240	
Sandstone-----	13	253	
Shale, sandy, gray-----	29	282	
Coal-----	2	284	
Shale, gray-----	4	288	
Limestone-----	1	289	
Sandstone-----	16	305	
Shale, gray-----	15	320	
Shale, black, and coal-----	6	326	
Shale-----	34	360	
Sandstone, broken-----	10	370	
Slate, black, and coal-----	5	375	T. D. 892 ft.

Well 8/10W-36M1

Type of record: Driller's log.

Altitude: About 550 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	18	18	
Hardpan-----	9	27	
Pennsylvanian system:			
Middle (?) series:			
Shale, gray-----	11	38	
Slate, dark-----	6	44	
Coal-----	2	46	
Fire clay-----	3	49	
Shale, sandy-----	9	58	
Shale, dark-----	20	78	
Shale, sandy-----	40	118	
Slate, dark-----	5	123	
Coal-----	2	125	
Fire clay-----	3	128	
Shale, dark-----	10	138	
Sandstone-----	32	170	W. B.
Sandstone, white-----	30	200	W. B.
Shale, gray-----	3	203	

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

Well 8/11W-1K1

Type of record: Driller's log.

Altitude: About 470 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	17	17	Clay (?)
Hardpan-----	13	30	
Shale, sandy-----	13	43	
Gravel-----	3	46	
Sand and soft shale-----	29	75	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	15	90	

Well 8/11W-2K1

Type of record: Driller's log.

Altitude: About 520 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	15	15	W. B. Clay (?)
Sand-----	15	30	
Shale, green-----	4	34	
Pennsylvanian system:			
Middle (?) series:			
Limestone-----	4	38	W. B.
Shale, dark-----	6	44	
Coal-----	1	45	
Fire clay-----	2	47	
Limestone-----	3	50	
Shale, gray-----	20	70	
Shale, dark-----	30	100	
Limestone-----	1	101	
Coal-----	1	102	
Fire clay-----	4	106	
Limestone, sandy-----	17	123	
Shale, gray-----	5	128	
Limestone, sandy, brown-----	3	131	
Shale, gray-----	8	139	
Shale, dark-----	4	143	
Coal-----	2	145	
Shale, gray-----	27	172	
Limestone-----	4	176	
Shale, gray-----	9	185	
Shale, sandy-----	10	195	
Shale, dark-----	15	210	

Well 8/11W-10G1

Type of record: Driller's log.

Altitude: About 434 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Gumbo-----	4	4	W. B.
Gravel and sand-----	92	96	

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

Well 8/11W-10G1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Sandstone, gray-----	4	100	
Mud, light-brown-----	20	120	
Shale, dark-----	15	135	
Slate, black-----	20	155	
Sandstone, gray, and limestone--	10	165	
Sandstone-----	5	170	
Shale, gray-----	55	225	
Limestone, brown-----	10	235	
Red rock and limestone-----	10	245	
Sandstone, gray-----	10	255	
Shale, sandy-----	15	270	
Sandstone and shale-----	10	280	
Sandstone, gray-----	25	305	
Shale, gray-----	15	320	
Coal-----	5	325	
Sandstone-----	5	330	
Sandstone, gray-----	30	360	
Shale, gray-----	5	365	
Coal-----	5	370	
Shale, gray, and mud-----	35	405	T. D. 2,773 ft.

Well 8/11W-11J1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	25	25	
Hardpan-----	39	64	
Shale-----	11	75	Clay (?)
Hardpan-----	5	80	
Shale, yellow-----	25	105	Do
Gravel-----	1	106	

Well 8/11W-12C1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	18	18	
Shale, gray-----	22	40	Clay (?)
Shale, green-----	48	88	Do
Shale, sandy-----	2	90	Do
Sand-----	2	92	W. B.

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

Well 8/11W-12G1

Type of record: Driller's log.

Altitude: About 480 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Gravel, coarse-----	34	34	
Sand and gravel-----	12	46	W. B.
Pennsylvanian system:			
Middle series:			
Slate, black-----	2	48	
Fire clay-----	4	52	
Shale, light-----	11	63	

Well 8/11W-12G2

Type of record: Driller's log.

Altitude: About 490 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface and soft mud-----	18	18	
Sand and gravel-----	52	70	
Pennsylvanian system:			
Middle series:			
Coal-----	2	72	
Shale, gray-----	9	81	
Shale, dark-----	14	95	
Limestone, hard-----	6	101	W. B.
Shale, light-----	4	105	
Shale, gray-----	5	110	
Shale, sandy-----	8	118	
Slate, dark-----	26	144	
Coal-----	4	148	W. B.
Fire clay-----	7	155	

Well 8/11W-14F1

Type of record: Driller's log.

Altitude: About 450 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Gravel and sand-----	23	23	
Gravel-----	10	33	W. B.
Pennsylvanian system:			
Middle series:			
Shale, dark-----	7	40	
Sandstone-----	10	50	W. B.
Fire clay-----	4	54	
Shale, sandy-----	9	63	

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

Well 8/11W-14H1

Type of record: Driller's log.

Altitude: About 480 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand-----	15	15	
Sand and gravel-----	15	30	
Clay, soft, sandy-----	12	42	
Gravel-----	4	46	
Pennsylvanian system:			
Middle series:			
Shale, soft-----	33	79	
Coal-----	1	80	
Shale-----	10	90	
Limestone-----	--	90	

Well 8/11W-14K1

Type of record: Driller's log.

Altitude: About 480 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	50	50	
Shale, soft-----	50	100	Clay (?)
Sand-----	--	100	W. B.

Well 8/11W-14L1

Type of record: Driller's log.

Altitude: About 450 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, red, and sand-----	15	15	
Sand and gravel-----	5	20	
Hardpan-----	30	50	
Mud, soft, and gravel-----	40	90	
Sand and gravel-----	10	100	W. B.

Well 8/11W-23G1

Type of record: Driller's log.

Altitude: About 460 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Gravel-----	35	35	
Sand, red-----	5	40	W. B.
Pennsylvanian system:			
Middle series:			
Shale-----	5	45	
Limestone-----	--	45	

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

Well 8/11W-23G2

Type of record: Driller's log.

Altitude: About 445 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and gravel-----	25	25	
Hardpan-----	5	30	
Pennsylvanian system:			
Middle (?) series:			
Shale, sandy, soft-----	20	50	
Sandstone-----	4	54	

Well 8/11W-23H1

Type of record: Driller's log.

Altitude: About 442 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Gravel, sandy-----	50	50	
Pennsylvanian system:			
Middle (?) series:			
Shale-----	25	75	
Coal-----	2	77	
Shale, gray-----	13	90	
Shale, dark-----	25	115	
Shale, sandy-----	15	130	
Shale, dark-----	25	155	
Coal-----	2	157	
Shale, gray-----	3	160	
Sandstone-----	23	183	
Shale, dark-----	56	239	
Limestone-----	4	243	
Shale, gray-----	2	245	
Red rock-----	3	248	
Shale, gray-----	8	256	
Limestone-----	2	258	
Shale, gray-----	17	275	
Sandstone-----	25	300	
Shale, gray-----	32	332	
Coal-----	3	335	
Shale, gray-----	10	345	
Sandstone-----	13	358	
Shale, gray-----	25	383	
Coal-----	2	385	
Shale, gray-----	10	395	T. D. 2,783 ft.

Well 8/11W-23J1

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 sand-----	10	10	

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

Well 8/11W-23J1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle (?) series:			
Coal-----	2	12	
Shale, gray-----	4	16	
Limestone-----	4	20	W. B.
Shale, gray-----	20	40	
Shale, dark-----	18	58	
Coal-----	2	60	
Shale, gray-----	7	67	
Sandstone-----	3	70	W. B.
Shale, sandy-----	26	96	
Coal-----	2	98	
Shale, sandy, gray-----	24	122	
Shale, dark-----	8	130	
Shale, sandy-----	20	150	

Well 8/11W-23K1

Type of record: Driller's log.

Altitude: About 445 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	13	13	
Gravel-----	1	14	
Pennsylvanian system:			
Middle (?) series:			
Shale-----	29	43	W. B.
Sandstone-----	12	55	

Well 8/11W-24B1

Type of record: Driller's log.

Altitude: About 530 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	20	20	
Pennsylvanian system:			
Upper series:			
Sandstone-----	24	44	W. B.
Middle series:			
Limestone, hard-----	6	50	
Shale, soft-----	1	51	
Limestone, hard-----	3	54	
Shale, light-----	7	61	
Limestone, hard-----	3	64	
Slate, blue-----	5	69	
Coal-----	2	71	
Shale, light-----	6	77	
Limestone, hard-----	3	80	
Shale, light-----	2	82	

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

Well 8/11W-24D2

Type of record: Driller's log.

Altitude: About 530 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Fill, soft-----	26	26	
Hardpan, hard, yellow-----	16	42	
Boulders-----	4	46	W. B.
Hardpan, gray-----	14	60	
Pennsylvanian system:			
Middle series:			
Shale, light, and coal-----	4	64	

Well 8/11W-24D3

Type of record: Driller's log.

Altitude: About 525 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	20	20	
Hardpan-----	49	69	
Pennsylvanian system:			
Middle series:			
Limestone, hard-----	1	70	
Shale, sandy-----	12	82	
Shale, dark-----	28	110	
Limestone-----	1	111	
Slate, dark-----	4	115	
Coal-----	2	117	
Fire clay-----	3	120	
Limestone, sandy-----	24	144	
Shale, light-----	6	150	
Coal-----	3	153	
Fire clay-----	7	160	
Limestone, sandy-----	15	175	
Shale, light-----	8	183	
Limestone-----	1	184	
Shale, light-----	27	211	

Well 8/11W-24L1

Type of record: Driller's log.

Altitude: About 500 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soft formation, red-----	41	41	
Pennsylvanian system:			
Middle series:			
Limestone, hard-----	4	45	
Shale, dark-----	5	50	
Coal-----	2	52	W. B.
Shale, light-----	6	58	
Sandstone and limestone-----	12	70	W. B.

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

Well 8/11W-25D1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Shale, soft, green-----	17	37	Clay (?)
Pennsylvanian system:			
Middle series:			
Coal-----	2	39	
Shale, gray-----	8	47	
Limestone-----	5	52	
Shale, gray-----	8	60	

Well 8/11W-25H1

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

Quaternary system:			
Recent and Pleistocene series:			
Sand, red-----	20	20	
Sand, gray-----	11	31	
Sand, brown-----	3	34	W. B.
Hardpan-----	11	45	
Pennsylvanian system:			
Upper (?) series:			
Shale, gray-----	26	71	
Sandstone-----	4	75	W. B.
Middle series:			
Limestone-----	3	78	W. B.
Slate, blue-----	2	80	
Coal-----	2	82	
Shale, sandy-----	5	87	

Well 8/11W-36G1

Type of record: Driller's log. Altitude: About 449 feet.

Quaternary system:			
Recent and Pleistocene series:			
Loam, black-----	4	4	
Clay, yellow-----	4	8	
Sand-----	13	21	
Gravel-----	2	23	
Pennsylvanian system:			
Middle series:			
Shale, blue-----	12	35	
Shale, light-----	5	40	
Sandstone-----	10	50	
Shale, gray-----	22	72	
Coal-----	2	74	
Shale, gray-----	56	130	
Shale, sandy-----	10	140	
Shale, gray-----	15	155	
Shale, dark-----	7	162	
Sandstone, broken-----	56	218	T. D. 1,810 ft.

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

Well 9/8W-1D1

Type of record: Driller's log. Altitude: About 615 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:			
Shale-----	8	33	
Sandstone-----	7	40	
Shale-----	56	96	
Slate, dark-----	6	102	
Limestone-----	2	104	
Slate, black-----	6	110	
Shale, gray-----	4	114	
Sandstone, white-----	36	150	W. B.

Well 9/8W-2H1

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

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	22	22	
Pennsylvanian system:			
Middle series:			
Sandstone, yellow-----	8	30	
Shale, gray, or slate-----	65	95	
Coal-----	2	97	
Fire clay-----	1	98	
Sandstone-----	62	160	W. B.
Coal-----	1	161	

Well 9/8W-2M1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	20	20	
Hardpan-----	20	40	
Shale, soft-----	20	60	Clay (?)
Shale, green-----	10	70	Do
Pennsylvanian system:			
Middle series:			
Shale, soft, dark-----	10	80	
Shale, coarse-----	15	95	
Sandstone, white-----	40	135	W. B.

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

Well 9/8W-3N1

Type of record: Driller's log.

Altitude: About 560 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Hardpan-----	3	17	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	5.5	22.5	
Sandstone-----	19.5	42	
Shale, gray-----	85	127	
Slate, black-----	5	132	
Coal-----	2	134	
Fire clay-----	5	139	
Sandstone-----	37	176	W. B.
Shale, gray-----	1.5	177.5	
Coal-----	.5	178	

Well 9/8W-4H1

Type of record: Driller's log.

Altitude: About 565 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, red-----	18	18	
Boulders-----	3	21	
Pennsylvanian system:			
Middle series:			
Slate and coal-----	4	25	
Limestone, hard-----	2	27	
Shale, soft-----	5	32	
Limestone, hard-----	2	34	
Slate, dark-----	8	42	
Shale, gray-----	5	47	
Shale, sandy-----	45	92	
Shale, dark-----	35	127	
Limestone, hard-----	1	128	
Coal-----	5	133	
Fire clay-----	4	137	
Shale, gray-----	5	142	
Sandstone, white-----	36	178	W. B.

Well 9/8W-5N1

Type of record: Driller's log.

Altitude: About 580 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	20	20	
Hardpan-----	7	27	
Pennsylvanian system:			
Middle series:			
Sandstone, yellow-----	11	38	

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

Well 9/8W-5N1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Sandstone, gray-----	10	48	
Shale, gray-----	27	75	
Coal-----	5	80	W. B.; mine opening
Fire clay-----	5	85	
Limestone, hard-----	4	89	
Shale, sandy-----	10	99	
Limestone, hard-----	3	102	
Shale, sandy-----	8	110	
Shale, gray-----	12	122	
Slate, dark-----	5	127	
Coal-----	4	131	
Shale, gray-----	11	142	
Slate, coal-----	6	148	
Limestone-----	3	151	
Shale, sandy-----	24	175	
Sandstone-----	4	179	W. B.
Shale, sandy-----	49	228	
Shale, gray-----	30	258	
Limestone, hard-----	2	260	
Coal-----	3	263	
Fire clay-----	4	267	
Shale, gray-----	18	285	
Coal-----	4	289	
Shale, dark-----	7	296	
Shale, sandy-----	12	308	

Well 9/8W-5N2

Type of record: Driller's log.

Altitude: About 580 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	67	67	
Pennsylvanian system:			
Middle series:			
Sandstone-----	5	72	W. B.
Slate, gray-----	14	86	
Coal-----	5	91	
Fire clay and shale-----	7	98	
Limestone, hard-----	5	103	W. B.
Shale, gray-----	10	113	
Limestone, hard-----	2	115	

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

Well 9/8W-5N3

Type of record: Driller's log.

Altitude: About 580 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	15	15	
Hardpan-----	30	45	
Pennsylvanian system:			
Middle series:			
Shale-----	20	65	
Sandstone, broken-----	10	75	Mine water
Shale, dark-----	5	80	
Shale, gray-----	6	86	
Coal-----	4	90	
Fire clay-----	3	93	
Shale, gray-----	4	97	
Limestone-----	4	101	
Shale, gray-----	9	110	
Limestone-----	2	112	
Coal, trace-----	--	112	
Shale, gray-----	30	142	
Slate, black-----	5	147	
Shale, gray-----	5	152	
Sandstone-----	7	159	
Limestone, hard-----	4	163	
Slate, black-----	5	168	
Shale, sandy, broken-----	2	170	Salt water
Shale, sandy-----	40	210	
Shale, gray-----	54	264	
Slate, black-----	8	272	
Shale, light, and limestone streaks-----	18	290	
Slate, black-----	3	293	
Shale, sandy, dark-----	15	308	
Slate, black, and shale-----	10	318	
Sandstone, gray-----	35	353	W. B.
Shale, dark-----	--	353	

Well 9/8W-5P1

Type of record: Driller's log.

Altitude: About 575 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	18	18	
Hardpan-----	17	35	
Clay and shale, soft-----	25	60	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	14	74	
Shale, dark, and coal-----	7	81	
Fire clay-----	4	85	

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

Well 9/8W-5P1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Slate, gray-----	9	94	
Coal-----	1	95	
Shale, sandy-----	6	101	
Limestone, hard-----	4	105	
Shale, gray-----	5	110	
Limestone-----	8	118	
Slate, gray-----	7	125	
Limestone-----	2	127	
Shale, dark-----	38	165	
Sandstone-----	10	175	W. B.
Shale, gray-----	25	200	

Well 9/8W-6J1

Type of record: Driller's log.

Altitude: About 585 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	15	15	
Hardpan-----	7	22	
Pennsylvanian system:			
Middle series:			
Sandstone-----	55	77	W. B.
Slate, gray-----	17	94	
Coal-----	4	98	
Fire clay-----	4	102	
Shale, dark-----	6	108	
Limestone, brown-----	12	120	W. B.
Shale, gray-----	8	128	

Well 9/8W-8D1

Type of record: Driller's log.

Altitude: About 575 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	48	48	
Pennsylvanian system:			
Middle series:			
Sandstone-----	5	53	
Shale, sandy-----	15	68	
Slate, gray-----	16	84	
Coal-----	5	89	
Fire clay-----	6	95	
Limestone, hard-----	6	101	
Shale, dark-----	9	110	
Limestone, hard-----	2	112	
Coal-----	2	114	
Shale, dark-----	18	132	

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

Well 9/8W-8D1--Continued			
Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Slate, dark-----	6	138	
Coal-----	2	140	
Limestone, hard-----	5	145	
Shale, gray-----	5	150	
Well 9/8W-9C1			
Type of record: Driller's log.		Altitude: About 545 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	15	15	
Hardpan-----	8	23	
Sand and mud-----	51	74	
Gravel, hard-----	16	90	W. B.
Shale, dark-----	26	116	
Slate, black-----	4	120	
Fire clay-----	5	125	
Sandstone, white-----	53	178	W. B.
Well 9/8W-9E1			
Type of record: Driller's log.		Altitude: About 513 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	15	15	
Sand-----	22	37	
Pennsylvanian system:			
Middle series:			
Shale-----	82	119	
Slate and coal-----	5	124	
Limestone-----	8	132	
Sandstone-----	48	180	
Shale, dark-----	12	192	
Coal-----	3	195	
Sandstone-----	7	202	
Clay, white-----	9	211	
Sandstone-----	15	226	
Coal-----	2	228	
Slate-----	3	231	
Clay-----	10	241	
Shale-----	20	261	
Sandstone, broken-----	20	281	
Slate-----	9	290	
Shale, soft-----	20	310	
Shale, clayey-----	20	330	
Sandstone, broken-----	36	366	T. D. 1,963 ft.

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

Well 9/8W-9L1

Type of record: Driller's log.

Altitude: About 505 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Sand and drift-----	25	25	
Shale-----	5	30	Clay (?)
Gravel-----	10	40	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	50	90	
Coal-----	3	93	
Shale, gray-----	8	101	
Sandstone-----	49	150	
Shale, dark-----	25	175	
Slate-----	5	180	
Shale, gray-----	6	186	
Sandstone, brown, and shale-----	12	198	
Coal-----	3	201	Gas
Shale, sandy, gray-----	19	220	
Sandstone-----	11	231	
Shale, gray-----	25	256	
Shale, dark-----	54	310	
Coal-----	3	313	
Shale, gray-----	11	324	
Coal-----	2	326	
Shale, dark-----	16	342	
Sandstone, broken-----	18	360	
Shale, sandy, dark-----	35	395	T. D. 2,000 ft.

Well 9/8W-9P1

Type of record: Driller's log.

Altitude: About 540 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	17	17	
Hardpan-----	13	30	
Sand and gravel-----	9	39	
Pennsylvanian system:			
Middle series:			
Shale, sandy, light-----	36	75	
Shale, dark-----	65	140	
Shale, soft, dark-----	10	150	
Limestone-----	2	152	
Coal-----	2	154	
Fire clay-----	5	159	
Limestone, hard-----	3	162	
Sandstone, light-----	23	185	W. B.
Sandstone, white-----	20	205	W. B.

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

Well 9/8W-10G1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface-----	11	11	
Hardpan-----	5	16	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	6	22	
Shale, gray-----	84	106	
Shale, soft, blue-----	4	110	
Slate, black-----	3	113	
Coal-----	1.5	114.5	
Fire clay-----	6.5	121	
Sandstone, white-----	54	175	W. B.

Well 9/8W-11D1

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

Quaternary system:			
Dug well-----	24	24	
Hardpan-----	4	28	
Mud, soft-----	32	60	
Quicksand-----	5	65	
Shale, soft-----	9	74	Clay (?)
Quicksand-----	--	74	W. B.

Well 9/8W-16B1

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

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	15	15	
Hardpan-----	27	42	
Shale, yellow-----	5	47	Clay (?)
Pennsylvanian system:			
Middle series:			
Shale, gray-----	11	58	
Limestone-----	2	60	W. B.
Shale, light-----	10	70	
Limestone-----	2	72	
Shale, sandy, broken-----	33	105	
Shale, dark-----	7	112	
Shale, gray-----	58	170	
Coal-----	3	173	
Shale, gray-----	2	175	
Sandstone-----	33	208	W. B.

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

Well 9/8W-16G1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	40	40	Hard clay (?)
Slate and coal-----	6	46	
Hardpan-----	11	57	
Pennsylvanian system:			
Middle series:			
Limestone, hard-----	5	62	W. B.
Shale, gray-----	2	64	
Sandstone-----	19	83	
Shale, sandy-----	15	98	
Slate, dark-----	2	100	

Well 9/8W-19B1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	13	13	W. B.
Hardpan-----	27	40	
Mud and gravel-----	20	60	
Sand, fine-----	3	63	
Mud and gravel-----	9	72	
Pennsylvanian system:			
Middle series:			
Shale, soft-----	3	75	W. B.
Coal-----	1	76	
Shale, gray-----	19	95	
Shale, dark-----	5	100	
Coal-----	2	102	
Shale-----	1	103	

Well 9/8W-20A1

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

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	15	15	
Hardpan-----	6	21	
Gravel and sand, gray-----	21	42	
Gravel, yellow-----	21	63	
Pennsylvanian system:			
Middle series:			
Slate, blue-----	1	64	W. B.
Coal-----	1	65	
Fire clay-----	3	68	W. B.
Limestone, sandy-----	7	75	
Limestone, hard-----	7	82	

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

Well 9/8W-20A1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Coal-----	2	84	
Slate, dark-----	15	99	

Well 9/8W-21A1

Type of record: Driller's log.

Altitude: About 530 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	14	14	
Hardpan-----	3	17	
Sand and gravel-----	6	23	
Hardpan, soft, green-----	2	25	
Sand and gravel-----	11	36	
Hardpan, soft, green-----	3	39	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	15	54	
Shale, blue-----	3	57	
Shale, gray-----	21	78	
Shale, blue-----	9	87	
Shale, gray-----	33	120	
Shale, dark-----	1	121	
Slate, black, and rock-----	4	125	
Coal-----	2.5	127.5	
Fire clay-----	7.5	135	
Sandstone-----	3	138	
Shale, gray-----	3	141	
Sandstone, white-----	42	183	W. B.
Sandstone, dark-----	2	185	
Slate, black-----	1	186	
Shale, gray-----	6	192	

Well 9/8W-21B1

Type of record: Driller's log.

Altitude: About 525 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	38	38	
Sand and gravel-----	12	50	
Hardpan-----	14	64	
Sand and gravel-----	8	72	
Hardpan-----	22	94	
Coal-----	1	95	
Hardpan-----	7	102	
Sand and gravel-----	3	105	W. B.

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

Well 9/8W-21B1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Shale, soft-----	10	115	
Shale, gray-----	13	128	
Limestone, hard-----	3	131	W. B.
Slate and coal-----	4	135	
Fire clay-----	4	139	
Shale, sandy-----	8	147	
Shale, gray-----	9	156	

Well 9/8W-21R1

Type of record: Driller's log.

Altitude: About 510 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, red-----	15	15	
Hardpan-----	21	36	
Shale, soft-----	39	75	Clay (?)
Sand, soft-----	8	83	
Pennsylvanian system:			
Middle series:			
Slate, gray-----	14	97	
Coal-----	1	98	
Limestone-----	2	100	
Slate, gray-----	4	104	
Fire clay-----	3	107	
Shale, sandy-----	10	117	
Shale, soft-----	3	120	
Sandstone-----	12	132	W. B.
Sandstone, brown-----	6	138	
Shale, dark-----	13	151	
Sandstone-----	9	160	W. B., gas

Well 9/8W-23B1

Type of record: Driller's log.

Altitude: About 550 feet.

Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	29	29	
Hardpan-----	9	38	
Shale, yellow-----	4	42	Clay (?)
Pennsylvanian system:			
Middle series:			
Shale, dark-----	5	47	
Slate, black-----	5	52	
Coal-----	1	53	
Fire clay-----	2	55	
Limestone-----	3	58	
Sandstone-----	39	97	W. B.

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

Well 9/8W-23G1

Type of record: Driller's log.

Altitude: About 545 feet.

Material	Thick-ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	12	12	Clay (?)
Quicksand-----	7	19	
Shale, soft-----	6	25	
Hardpan-----	17	42	
Pennsylvanian system:			
Middle series:			
Shale, soft-----	18	60	W. B.
Limestone-----	2	62	
Slate and coal-----	3	65	
Fire clay-----	3	68	W. B.
Shale, sandy-----	6	74	
Sandstone, white-----	36	110	

Well 9/8W-24H1

Type of record: Driller's log.

Altitude: About 620 feet.

Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	14	14	
Hardpan-----	12	26	
Pennsylvanian system:			
Middle series:			
Shale, sandy, gray-----	17	43	
Shale, sandy, dark-----	15	58	
Sandstone, hard-----	32	90	
Shale, dark-----	21	111	
Slate, black-----	3	114	
Coal-----	3	117	
Limestone, hard-----	2	119	
Coal-----	3	122	
Shale, gray-----	6	128	

Well 9/8W-27C1

Type of record: Driller's log.

Altitude: About 580 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay-----	10	10	Boulder (?)
Hardpan-----	17	27	
Limestone-----	6	33	
Hardpan-----	7	40	
Pennsylvanian system:			
Middle series:			
Shale, gray-----	10	50	
Shale, dark-----	30	80	
Shale, gray-----	37	117	
Limestone-----	2	119	

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

Well 9/8W-28G1

Type of record: Driller's log.

Altitude: About 515 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Gravel and hardpan-----	42	42	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	23	65	
Shale, sandy-----	45	110	
Limestone, shelly-----	2	112	
Coal-----	5	117	
Fire clay-----	4	121	
Sandstone-----	37	158	W. B.
Shale, dark-----	2	160	

Well 9/8W-28G2

Type of record: Driller's log.

Altitude: About 515 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay and hardpan-----	20	20	
Pennsylvanian system:			
Middle series:			
Shale, soft, gray-----	8	28	
Shale, dark-----	20	48	
Slate, black, and coal-----	7	55	
Fire clay-----	4	59	
Limestone, hard-----	3	62	
Shale, sandy-----	6	68	
Sandstone-----	40	108	

Well 9/8W-28G3

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 and gravel-----	27	47	
Hardpan-----	8	55	
Mud, blue-----	17	72	
Pennsylvanian system:			
Middle series:			
Shale, sandy-----	34	106	
Limestone, shelly-----	6	112	
Shale, black-----	2	114	
Coal-----	3	117	W. B.
Fire clay-----	1	118	
Limestone, shelly-----	4	122	
Sandstone-----	40	162	W. B.
Shale, dark-----	2	164	

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

Well 9/8W-28G4

Type of record: Driller's log.

Altitude: About 510 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay-----	10	10	
Hardpan-----	20	30	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	66	96	
Limestone-----	3	99	
Slate, black-----	7	106	
Coal, trace-----	--	106	
Sandstone-----	34	140	
Slate, black-----	--	140	

Well 9/8W-28G5

Type of record: Driller's log.

Altitude: About 510 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Dug well-----	27	27	
Sand and hardpan-----	16	43	
Pennsylvanian system:			
Middle series:			
Shale-----	72	115	
Slate, black-----	4	119	
Coal-----	3	122	W. B.
Fire clay-----	4	126	
Sandstone, light-----	38	164	W. B.

Well 9/8W-28K1

Type of record: Driller's log.

Altitude: About 520 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Surface and clay-----	16	16	
Hardpan-----	27	43	
Pennsylvanian system:			
Middle series:			
Limestone, hard-----	3	46	W. B.
Shale, light-----	11	57	
Limestone, hard-----	6	63	W. B.
Slate, black-----	5	68	
Coal-----	5	73	
Fire clay-----	3	76	
Shale, gray-----	56	132	
Limestone, hard-----	3	135	
Slate, dark-----	3	138	
Coal-----	4	142	
Fire clay-----	4	146	

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

Well 9/8W-28K1--Continued

Material	Thick- ness (feet)	Depth (feet)	Remarks
Pennsylvanian system:			
Middle series:			
Sandstone, white-----	35	181	W. B.
Shale, sandy-----	15	196	
Shale, dark-----	24	220	
Coal-----	3	223	
Sandstone, light-----	30	253	W. B.
Coal-----	5	258	
Fire clay-----	5	263	

Well 9/8W-28N1

Type of record: Driller's log.		Altitude: About 485 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Clay, white-----	3	3	
Clay, sandy-----	9	12	
Driftwood and fine, muddy, sand--	4	16	W. B.
Sand, fine, muddy, and gravel-----	1	17	W. B.
Sand, muddy-----	2	19	W. B.
Sand, clean, and gravel with clay balls-----	1	20	W. B.
Clay, gritty, blue-----	4	24	
Middle series:			
Limestone-----	1	25	

Well 9/8W-28Q1

Type of record: Driller's log.		Altitude: About 525 feet.	
Quaternary system:			
Recent and Pleistocene series:			
Cistern-----	12	12	
Hardpan-----	7	19	
Pennsylvanian system:			
Middle series:			
Shale, muddy-----	15	34	
Slate, black-----	11	45	
Limestone-----	2	47	W. B.
Shale, sandy-----	7	54	
Limestone-----	3	57	W. B.
Coal-----	1	58	
Fire clay-----	4	62	
Limestone-----	3	65	
Shale, sandy-----	6	71	
Slate, gray-----	6	77	
Shale, gray-----	66	143	
Slate, very hard, black-----	5	148	
Coal-----	3	151	
Fire clay-----	2	153	
Sandstone-----	30	183	W. B.

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

Well 9/8W-28Q2

Type of record: Driller's log.

Altitude: About 520 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Record missing-----	31	31	
Pennsylvanian system:			
Middle series:			
Shale, light-----	2	33	
Limestone-----	2	35	
Shale, light-----	3	38	
Limestone-----	4	42	W. B.
Coal-----	2	44	
Fire clay-----	5	49	
Shale, light-----	5	54	
Shale, sandy-----	7	61	
Slate, gray-----	6	67	
Shale, dark-----	61	128	
Slate, black-----	7	135	W. B.
Coal-----	5	140	
Fire clay-----	2	142	
Sandstone-----	41	183	W. B.

Well 9/8W-28R1

Type of record: Driller's log.

Altitude: About 530 feet.

Quaternary system:			
Recent and Pleistocene series:			
Surface-----	13	13	
Shale, sandy, yellow-----	12	25	Clay (?)
Shale, gravelly-----	5	30	Do
Pennsylvanian system:			
Middle series:			
Shale, gray-----	5	35	
Sandstone-----	3	38	
Shale, white-----	5	43	
Sandstone-----	7	50	
Limestone-----	4.5	54.5	
Slate, black-----	5	59.5	
Mine opening-----	5.5	65	

Well 9/8W-29H1

Type of record: Driller's log.

Altitude: About 490 feet.

Quaternary system:			
Recent and Pleistocene series:			
Fill; red shale, gravel and clay-	4	4	
Clay-----	7	11	
Clay, hard, gritty-----	1	12	
Sand and gravel, clean-----	2	14	W. B.
Clay, gritty-----	6	20	
Shale, blue-----	3	23	

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

Well 9/8W-30G1

Type of record: Driller's log.

Altitude: About 504 feet.

Material	Thick- ness (feet)	Depths (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	14	14	
Clay, black-----	13	27	
Clay, yellow-----	3	30	
Clay, blue-----	7	37	
Pennsylvanian system:			
Middle series:			
Shale, soft-----	5	42	
Shale, muddy-----	38	80	
Shale-----	4	84	W. B.
Shale, soft-----	36	120	
Coal-----	5	125	
Shale, light-----	15	140	
Shale, brown-----	35	175	
Coal-----	8	183	Gas
Sandstone, shaly-----	2	185	
Shale, white-----	19	204	
Coal-----	4	208	
Shale, sandy, white-----	20	228	
Shale, sandy, hard, white-----	20	248	
Shale, sandy, dark-----	5	253	
Coal-----	4	257	Gas
Shale, sandy, light-----	27	284	
Shale, brown-----	9	293	
Coal-----	2	295	Gas
Shale, light-----	8	303	
Shale, sandy, hard-----	3	306	
Shale, light, and sandstone-----	8	314	
Coal-----	2	316	Gas
Shale, light-----	4	320	
Shale, sandy, hard, dark-----	7	327	
Shale, black-----	9	336	T. D. 818 ft.

Well 9/8W-30P1

Type of record: Driller's log.

Altitude: About 545 feet.

Quaternary system:			
Recent and Pleistocene series:			
Clay, yellow-----	16	16	
Hardpan-----	14	30	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	37	67	
Coal-----	3	70	
Fire clay-----	5	75	
Shale, sandy-----	2	77	
Sandstone, white-----	8	85	W. B.

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

Well 9/8W-30P2

Type of record: Driller's log.

Altitude: About 545 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Soil and hardpan-----	35	35	
Gumbo-----	5	40	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	23	63	
Coal-----	3	66	
Fire clay-----	7	73	
Sandstone-----	5	78	
Sandstone, soft, broken-----	5	83	Collapse above mine opening

Well 9/8W-32D1

Type of record: Driller's log.

Altitude: About 520 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Top soil-----	28	28	
Quicksand and mud-----	2	30	
Pennsylvanian system:			
Middle series:			
Shale, white-----	27	57	
Coal, slate, and shale-----	5	62	
Coal, hard-----	2	64	
Shale-----	37	101	

Well 9/8W-34D1

Type of record: Driller's log.

Altitude: About 525 feet.

Material	Thick- ness (feet)	Depth (feet)	Remarks
Quaternary system:			
Recent and Pleistocene series:			
Clay, red-----	20	20	
Pennsylvanian system:			
Middle series:			
Shale, dark-----	15	35	
Sandstone-----	2	37	
Shale, black-----	6	43	
Limestone-----	7	50	
Coal-----	3	53	
Fire clay-----	12	65	
Shale, sandy-----	15	80	
Shale, dark-----	16	96	W. B.