

KAN-414

Slaughters Creek Coal and Land Co. No. 6 Well

Cabin Creek District, Kanawha County, W. Va.

By The Pure Oil Company, Box 551, Newark, Ohio.

Located 0.17 mi. W. of 81°30' and 5.64 mi. S. of 38°15' -NE- Peytona Quadrangle, on S. side of Spring Branch of Slaughters Creek.

Elevation, 755.15' L.

Permit, Kan-414.

Drilling commenced August 24, 1937; completed, November 20, 1937.

12½" casing, 40'; 10", 307'; 8½", 1594'; 5-3/16", 5049½'.

Dry hole.

Samples from 5049' to 5193'.

Top	Bottom	Thickness	
2228	2242	14	Shale, brown, soft (Sunbury Shale)
2242	2254	12	Berea Sand, gray, hard
<u>Huntersville Chert, 83½ feet</u>			
5039½			Top of Huntersville Chert from drillers' record
5049½	5079½	30	Chert, dark-gray and brown, calcareous
5079½	5118	38½	Chert, gray, calcareous; contains some glauconite and a large proportion of detrital quartz varying in texture from fine sand to silt size; sample from 5110 to 5112' is mostly fine sandstone
5118	5123	5	Sandstone, dark grayish green, fine, glauconitic, cherty, calcareous; contains some dolomite and at the contact with the underlying sandstone there is an especially high concentration of glauconite and pyrite
<u>Oriskany Sandstone, 27 feet</u>			
5123	5136	13	Sandstone, nearly white, fine, moderately calcareous
5136	5150	14	Sandstone, gray, very fine, highly calcareous
<u>Helderberg Group, 43+ feet</u>			
5150	5155	5	Chert, light-gray, calcareous
5155	5179	24	Limestone, dark-gray with some light spots, very cherty
5179	5182	3	Chert, light-gray, calcareous, silty
5182	5193	11	Chert, dark-gray, calcareous, silty
	5193		Total depth

Slaughters Creek Coal and Land Co. No. 9 Well

Cabin Creek District, Kansas County, W. Va.

By The Pure Oil Company, Box 551, Newark, Ohio.

Located, 4.2 mi. W. of 91°25' and 1.49 mi. S. of 38°10' -MC- Montgomery
Quadrangle; 2.3 mi. W. of Lawrence.

Elevation, 1414.23 feet, L.

Permit, Kan-592.

Drilling commenced Nov. 15, 1938; completed, Jan. 9, 1939.

Gas well, volume 722,702 cu. ft. per day from Berea.

Rock pressure, 143 lbs. in 24 hours.

Fresh water at 145-150 and 1560.

Salt water at 2103-2112 and 1536.

Casing, 12 $\frac{1}{2}$ "², 16'¹; 8 $\frac{1}{2}$ "², 862'²; 6-5/8"², 1721' (pulled); 5-3/16"², 3303';

5" liner, 509'.

Coal was encountered at 257-272, 450-463, 525-527, 550-552, 595-597, 633-641,
710-720, and 827-831.

(The coals shown by the samples do not all occur exactly as reported in the
driller's record)

There are many gaps in the samples from this well and an attempt
to fill in the description of the missing intervals by reference to the
driller's record was not altogether satisfactory because it is not sufficiently
detailed and in places is inconsistent with the samples. Therefore there are
a few omissions and perhaps some slight errors in the following record.

Top	Bottom	Thickness	
			<u>Pottsville Formation, 2120+ feet</u>
0	91	91	Sandstone, light-yellow, medium-grained
91	100	10	Sandstone, gray, medium-grained
100	124	24	Siltstone, gray, micaceous, with thin streaks of coal
124	135	11	Shale, gray
135	219	83	Sandstone, light-gray, medium-grained; contains small amounts of mica, chlorite and kaolin
219	226	0	Siltstone, gray
	226		Coal, thickness not determined
226	246	20	Sandstone, white, fine
246	251	5	Coal (makes up about half of sample labelled 241 to 251)

Top	Bottom	Thickness	
251	251	10	No sample
251	257	² 16	Sandstone, very light gray, medium-grained; contains mica, chlorite and kaolin (driller's record gives coal at 257 to 272 and does not mention coal between 241 and 251)
257	258	8	Shale, gray, with siderite concretions
258	215	22	Siltstone, gray, shaly
215	221	6	Shale, very dark gray
221	219	2	Sandstone, gray, very fine
229	239	10	Sandstone, light-gray, fine
239	289	50	No sample; recorded as sandstone
259	261	2	Sandstone, gray, very fine
261	261	20	No sample; recorded as gray lime
251	408	12	Siltstone, gray, micaceous; with some coal and brown limestone
408	470	67	Sandstone, very light-gray, mostly medium-grained; finer and shaly at top; contains mica, chlorite kaolin, siderite, pyrite and carbonaceous material
470	480	10	Shale, gray
480	483	3	Coal (noted in driller's record; no sample)
483	525	42	Sandstone, light-gray, fine (No sample 494 to 503 and 512 to 525)
525	527	2	Coal (No sample)
527	530	23	Siltstone, gray, shaly, micaceous
530	532	2	Coal
532	560	8	Siltstone, gray
560	595	25	Sandstone, light-gray, fine, micaceous
595	597	2	Coal (No sample)
597	608	11	Siltstone, gray
608	638	30	Siltstone and shale, dark-gray to black, micaceous; contains siderite concretions; some coal in sample from 619 to 634
638	641	3	Coal (does not show in sample which includes this interval)
641	650	9	Siltstone (no samples from 641 to 704; description is based on driller's record)

Top	Bottom	Thickness	
650	665	15	Sandstone, gray
665	681	16	Shale, black, soft
681	704	23	Siltstone, gray, hard (recorded as lime)
704	716	12	Sandstone, light-gray, fine
720	751	31	Shale and siltstone, gray (no samples, 712 to 823)
751	795	44	Sandstone, white
795	827	32	Siltstone, gray
827	831	4	Coal (does not show in sample from this depth)
831	865	34	Shale and siltstone, gray (no samples, 850 to 865)
865	874	9	Sandstone, light-gray, fine
874	901	27	No sample; recorded as sand
901	921	20	Siltstone, gray, shaly, micaceous
921	931	10	Sandstone, light-gray, fine
931	939	8	Siltstone, dark-gray, micaceous; with a little brown, impure limestone
939	949	10	Shale, gray, silty
949	991	42	Sandstone, very fine, shaly; light gray with dark streaks
991	1033	42	Siltstone, gray, mostly dark; some calcareous and glauconitic very fine sandstone in sample from 995 to 1033; there is some overlapping and duplication of samples in interval 995 to 1033 and not all are consistent with each other
1033	1074	41	Sandstone, light-gray, fine; contains mica, chlorite and kaolin
1074	1085	11	Siltstone, dark-gray, with many siderite spherulites
1085	1097	12	Sandstone, light-gray, fine
1097	1109	12	Siltstone, brown, with much siderite which occurs mostly as cement
1109	1123	14	Siltstone, and shale, gray; with siderite concretions
1123	1175	52	Sandstone, gray very fine; some shaly material near top and bottom
1175	1211	36	Shale and siltstone, gray (no sample 1170 to 1201)
1211	1231	20	Sandstone, light-gray, fine micaceous
1231	1240	9	Sandstone, gray, very fine, shaly
1240	1293	53	Sandstone, light-gray, with yellow stain, fine- to medium-grained

Top Bottom Thickness

Top	Bottom	Thickness	Description
1208	1404	196	Sandstone, light-gray to white, mostly with some yellow stain; fine- to medium-grained; pure white from 1208 to 1274 (gas showing, 1208 to 1274; water at 1208, filled up 300 feet)
1404	1414	10	Sandstone, light-gray, very fine
1414	1416	2	Siltstone, gray
1416	1447	31	Sandstone, light-gray, fine to very fine; a little dark-gray shale between 1427 and 1437
1447	1614	67	Sandstone, very light-gray with some yellow stain, fine
1614	1702	188	Sandstone, very light gray to white, mostly with some yellow rust stain, medium- to coarse-grained (water at 1530, could not bail down)
1702	1715	11	Shale and siltstone, gray
1715	1736	22	Sandstone, gray, fine (recorded as lime; only bottom two feet included in sample)
1736	1750	15	Shale, gray and black, soft
1750	1756	6	Sandstone, gray, very fine
1756	1812	56	Shale and siltstone, gray; includes a considerable amount of soft, very fine textured shale; samples not complete
1812	1834	12	Sandstone, white, fine
1834	1834	10	Shale, gray; and white, very fine sandstone
1834	1864	30	No samples
1864	1872	8	Shale, gray, silty
1872	1880	8	Sandstone, white, fine
1880	1886	6	Siltstone, gray
1886	1891	5	Sandstone, light-gray, very fine
1891	1903	17	No samples (all of interval 1872 to 1895 is recorded as "hard gray lime")
1903	1916	9	Sandstone, light-gray, very fine; with some darker shale
1916	1925	9	No sample
1925	1939	4	Shale, gray; and very fine white sandstone
1939	1940	11	No sample
1940	1949	9	Siltstone, light-gray
1949	1980	31	Sandstone, nearly white with yellow rust stain
1980	1992	12	Shale, gray; a little limestone between 1980 and 1985

Top Bottom Thickness

1992 2038 46 Sandstone, light-gray to slightly greenish, very fine, hardly coarser than siltstone; contains small amount of carbonate mineral, probably dolomite

2038 2114 76 Sandstone, nearly white with yellow stain, fine (water at 2102 to 2112, filled up 225 feet in 2 hours)

2114 2120 6 No sample

Mauch Chunk Group, 153 feet.

2120 2130 10 Limestone, gray, dolomitic, very fine textured; with about 20% of red and some gray shale (driller's record indicates "rod rock" at 2124 to 2126)

2130 2140 10 Limestone, gray and grayish-red, dolomitic; very clayey; both this and the limestone above could about as well be called calcareous and dolomitic shale

2140 2146 6 Shale, dark-gray

2146 2174 28 Siltstone, gray; dolomitic from 2152 to 2156; darker and more shaly below 2156'

2174 2187 13 Shale, very dark gray, soft, calcareous

2187 2230 43 Limestone, dark brownish gray with a few white spots; fossiliferous; some shale, perhaps cavings, from 2218 to 2236 ("Little Lime")

2230 2242 12 Limestone, brownish-gray; lighter colored and finer textured than limestone above

2242 2252 10 Shale, gray, strongly calcareous ("Pencil Cove")

Greenbrier Limestone, 245 feet.

2252 2272 20 Limestone, dark brownish gray with white spots; fossiliferous; some oolites in sample from 2273 to 2279

2279 2305 26 No sample

2305 2310 5 Limestone, dark-brown, oolitic, sandy

2310 2340 30 Limestone, grayish-yellow, very fine textured

2340 2347 7 Limestone, gray, sandy, containing a few oolites

2347 2358 11 No sample

2358 2363 5 Limestone; very light gray, oolitic, with oolites thoroughly cemented together

2363 2365 2 Limestone, brown, oolitic; contains a little fine sand and silt

2365 2392 27 Limestone, very light gray, fine textured, not sandy or oolitic

Top	Bottom	Thickness	
2392	2401	9	No sample
2401	2431	30	Limestone, brownish-gray, with some red, calcitic; contains rather small amount of sand; sample from 2410 to 2415 contains considerable amount of red calcareous and dolomitic siltstone
2431	2438	7	Limestone, gray, dolomitic
2438	2472	34	Limestone, light-gray to slightly brownish, calcitic; small amount of anhydrite, 2465 to 2472' (gas at 2440 to 2442, 65,100 cu. ft.; blow down to 25,640 cu. ft. by the time top of Berea was reached)
2472	2485	13	Limestone, light gray; contains a little fine sand and some microscopic quartz crystals
2485	2505	19	Limestone, dolomitic; about 70% light and 30% dark-gray; contains only a small amount of sand, mostly very fine, with a few larger rounded grains
<u>Masserady and Pocono Formations, 474 feet.</u>			
2505	2516	11	Sandstone, red, very fine
2516	2522	6	Shale, bright-red and gray; with smaller amounts of red and green siltstone
2522	2528	6	Siltstone, red
2528	2595	67	Shale and siltstone, dark-gray; siltstone contains pyrite, biotite and muscovite and some is slightly calcareous
2595	2662	67	Shale, gray, interstratified with considerable amount of lighter gray siltstone and a little very fine sandstone
2662	2684	22	Sandstone, light-gray, very fine; almost a siltstone; interstratified with about equal amount of darker gray shale; recorded as Blair Sand, 2640 to 2709'
2684	2692	8	Shale, gray; with some siltstone and very fine sandstone
2692	2902	210	Shale and siltstone, gray; a few samples are more than half siltstone
2902	2935	33	Shale, dark-gray to black, pyritic near bottom (Sumbury Shale)
2935	2939	4	Sandstone, light-gray, very fine, with much pyrite (Berea Sandstone)
2939	2977	38	Sandstone, white, fine- to medium-grained; a few coarse grains, 2965 to 2973' (Berea Sandstone)

Top Bottom Thickness

Devonian Shales, 25+ feet

9 2177	2087	10	Shale, gray
	2005		Total depth