

Williams Coal Co. No. 223 Well

Sherman District, Boone County, W. Va.

By the Pure Oil Company, Newark, Ohio.

Located 4.56 mi. S. of 38°10' and 1.64 mi. W. of 81°30' - EC - Peytona

Quadrangle.

Elevation 1247.73'.

Permit 800-549.

Drilling commenced June 23, 1942; completed Aug. 19, 1942.

Shot Aug. 22, 1942; depth 2965-2974'.

Oil well; approximately 130' of oil in hole 6 hrs. after completion.

10" casing 54'; 8 1/2", 863'; 6 5/8", 1631'; 5 3/16", 2935'.

Coal at 39', 12"; 78', 24"; 173', 36"; 236', 24";

Section based on samples from 1515 to 2977'; examined by C. E. Apsey.

Samples also available from 544 to 1513'.

Top Bottom Thickness

Pottsville, 241+ feet

1515	1598	83	Sandstone, white, fine- to medium-grained, coarse grains present in some parts
1598	1605	7	Sandstone, white, very coarse
1605	1616	11	Sandstone, white, very fine, with some coal
1616	1622	6	Shale, gray, silty, with siderite spherulites
1622	1641	19	Sandstone, gray, medium-grained to very fine grained, 70%; gray shale and siltstone, 30%
1641	1655	14	Shale, light-brown and gray
1655	1743	88	Siltstone, gray, mostly shaly, micaceous
1743	1756	13	Sandstone, white, medium-grained

Kaneh Chunk Group, 468 feet

1756	1778	22	Limestone, light-brown to light-gray, very fine textured
1778	1808	23	Shale, red, calcareous
1808	1836	30	Sandstone, light-green, fine to very fine
1836	1846	10	Shale, red
1846	1855	9	Shale, gray, micaceous
1855	1872	17	Sandstone, white to light-green
1872	1917	25	Siltstone, grayish-green

Top	Bottom	Thickness	
1897	1906	9	Shale, red, calcareous
1906	1936	30	Siltstone, grayish-green, coarse and sandy
1936	1954	18	Siltstone, white to reddish, sandy
1954	1983	29	Sandstone, white, very fine, silty
1983	1983	5	Shale, gray and red, soft, thinly laminated
1983	2004	16	Sandstone, white, very fine, with some coarse quartz grains
2004	2013	9	Sandstone, white, very fine
2013	2018	5	Shale, grayish-green, silty
2018	2042	24	Shale, red
2042	2057	15 ⁵	Siltstone, gray, sandy
2057	2090	33	Shale, grayish-green
2090	2115	25	Shale, red, with some gray
2115	2123	8	Sandstone, green to white, very fine
2123	2175	52	Shale, and siltstone, gray
2175	2185	10	Limestone, gray, fossiliferous
2185	2190	15	Limestone, dark-gray, fossiliferous
2190	2207	9	Siltstone, gray, shaly
2207	2224	17	Limestone, gray to brown, with small specks of pyrite, 50%; gray very thinly laminated shale, 50%
<u>Greenbrier Limestone, 271 feet</u>			
2224	2233	9	Limestone, nearly white, oolitic and fossiliferous
2233	2265	32	Limestone, gray to brown, oolitic
2265	2286	21	Limestone, brown
2286	2347	61	Limestone, nearly white, oolitic
2347	2363	21	Limestone, nearly white, oolitic, somewhat dolomitic
2363	2394	26	Limestone, nearly white, oolitic, sandy
2394	2404	10	Limestone, nearly white, oolitic
2404	2410	6	Limestone, white, dolomitic
2410	2495	85	Limestone, white to brown, dolomitic and partly oolitic; bottom sample contains some sand and a few quartz crystals, but no anhydrite

Top Bottom Thickness

Mascordy Formation, 17 feet

2495 2512 17 Siltstone, red, sandy

Pocumtuck Formation, 465 feet

2512 2564 52 Siltstone, grayish-green to gray, sandy

2564 2691 127 Shale, gray, includes some thin streaks of siltstone
and very fine sandstone

2691 2773 82 Sandstone, white, very fine

2773 2814 41 Siltstone, greenish-gray, shaly

2814 2861 47 Shale, gray to light-gray

2861 2920 59 Siltstone, and shale, gray

2920 2933 13 Shale, very dark-gray (Sunbury Shale)

2933 2963 30 Sandstone, white, fine

2963 2987 24 Sandstone, white, medium-grained, with some fragments
of quartz pebbles

2987 2973 16 No sample

2973 2974 1 Conglomerate, white, composed of quartz pebbles (Berea
Sandstone, 2973-2974*)

Devonian Shales, 3+ feet

2974 2977 3 Shale, gray

2980 Total depth

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