

Wyoming-Pocahontas Coal and Coke Co. No 14 (15) Well.

Slab Fork District, Wyoming County, W. Va.

By Ravencliffs Development Co., Sabene, W. Va.

Located 2.98 Mi. S. of 37° 45' and 2.6 Mi. W. of 81° 25' N.W.

Mullens Quadrangle.

Elevation, 1790.1' L.

Permit, Wyo-12

Drilling commenced May 21, 1942; completed Sept. 28, 1942.

Gas well; volume 75,000 cu. ft., increased to 140,000 cu. ft. after acidizing with 2,000 gallons in two stages.

Rock pressure, 600 lbs. in 12 hrs.

10" casing 57' 6"; 8 1/4", 812'; 6 5/8", 2371' 6"; 3" tubing 2698'

Coal was encountered at 157-161, 385-390; 435-438, and 641-643'

Section based on samples from 730 to 2676'; examined by J.H.C. Martens.

| Top | Bottom | Thickness | |
|-----|--------|-----------|--|
| | | | <u>Pottsville Formation, 153, plus, feet.</u> |
| 730 | 758 | 28 | Sandstone, light gray, medium-grained |
| 758 | 766 | 6 | No sample |
| 766 | 777 | 11 | Sandstone, white with much rust stain, medium-grained. |
| 777 | 784 | 7 | No sample |
| 784 | 788 | 4 | Coal, 50%; gray siltstone and shale, 50% |
| 788 | 789 | 1 | Siltstone, gray, 80%; coal 20% |
| 789 | 800 | 11 | Shale, gray, silty |
| 800 | 812 | 12 | Sandstone, white, fine |
| 812 | 820 | 8 | Sandstone, light-gray, very fine |
| 820 | 850 | 30 | Sandstone, gray to brownish, fine |
| 850 | 856 | 6 | Shale, gray, silty |
| 856 | 865 | 9 | Sandstone, light-gray, fine |
| 865 | 883 | 18 | Shale, gray, silty |

Mauch Chunk Group, 1465 feet.

| Top | Bottom | Thickness | |
|------|--------|-----------|--|
| 883 | 891 | 8 | Shale, light grayish-green, silty, with siderite spherulites |
| 891 | 901 | 10 | Shale, green, slightly dolomitic |
| 901 | 916 | 15 | Shale and siltstone, green, 90%; red shale 10% |
| 916 | 925 | 9 | Shale and siltstone, gray |
| 925 | 932 | 7 | Siltstone, light-gray, sandy |
| 932 | 942 | 10 | Shale and siltstone, gray |
| 942 | 965 | 23 | Shale, very dark gray |
| 965 | 1008 | 43 | Sandstone, light-gray, very fine (show of gas, 980-983') |
| 1008 | 1040 | 32 | Shale, red and green with small limestone nodules |
| 1040 | 1050 | 10 | Siltstone, light-gray |
| 1050 | 1076 | 26 | Sandstone, nearly white, fine |
| 1076 | 1100 | 24 | Siltstone, grayish-green, fine |
| 1100 | 1110 | 10 | Siltstone, gray |
| 1110 | 1125 | 15 | Shale and siltstone, gray |
| 1125 | 1151 | 26 | Shale, gray, soft, slightly calcareous |
| 1151 | 1158 | 7 | Shale and siltstone, gray |
| 1158 | 1164 | 6 | Sandstone, white, fine |
| 1164 | 1176 | 12 | Sandstone, white, coarse |
| 1176 | 1183 | 7 | Sandstone, white, medium-grained |
| 1183 | 1195 | 12 | Sandstone, white, very coarse |
| 1195 | 1280 | 85 | Shale, very dark gray, distinctly laminated |
| 1280 | 1286 | 6 | Sandstone, white, very fine |
| 1286 | 1310 | 24 | Siltstone, light-green to nearly white |
| 1310 | 1335 | 25 | Shale, gray, soft, distinctly laminated |
| 1335 | 1345 | 10 | Sandstone, white, very coarse (wrong depth?) |
| 1345 | 1355 | 10 | Shale, gray, calcareous |
| 1355 | 1375 | 20 | Limestone, gray, shaly |
| 1375 | 1385 | 10 | Limestone, gray, fossiliferous, 70%; gray shale, 30% |

| Top | Bottom | Thickness | |
|------|--------|-----------|------------------------------------|
| 1385 | 1395 | 10 | Limestone, brownish-gray |
| 1395 | 1400 | 5 | Shale, gray to grayish-green, soft |
| 1400 | 1532 | 132 | Shale, red, calcareous |
| 1532 | 1540 | 8 | No sample |
| 1540 | 1551 | 11 | Sandstone, light-red, very fine |
| 1551 | 1555 | 4 | No sample |
| 1555 | 1574 | 19 | Siltstone, light-red, sandy |
| 1574 | 1590 | 16 | Sandstone, white, fine |
| 1590 | 1609 | 19 | Shale, red, silty |
| 1609 | 1620 | 11 | Shale and siltstone, gray |
| 1620 | 1640 | 20 | Shale, light-red, soft |
| 1640 | 1647 | 7 | Sandstone, white, very fine |
| 1647 | 1649 | 2 | Dolomite, gray, very fine textured |
| 1649 | 1668 | 19 | Shale, red, gray, and green |
| 1668 | 1676 | 8 | Dolomite, gray, very fine textured |
| 1676 | 1700 | 24 | Shale, gray to grayish-green |
| 1700 | 1706 | 6 | Siltstone, light-green |
| 1706 | 1721 | 15 | Sandstone, white, very fine |
| 1721 | 1728 | 7 | Limestone, gray, fossiliferous |
| 1728 | 1738 | 10 | Shale, gray |
| 1738 | 1771 | 33 | Shale, red, dolomitic |
| 1771 | 1777 | 6 | Siltstone, light-red, sandy |
| 1777 | 1789 | 12 | Shale, red, silty |
| 1789 | 1804 | 15 | Shale and siltstone, red |
| 1804 | 1808 | 4 | Siltstone, red |
| 1808 | 1815 | 7 | No sample |
| 1815 | 1825 | 10 | Shale, red |
| 1825 | 1828 | 3 | Shale, gray and red |
| 1828 | 1854 | 26 | Sandstone, white, very fine |
| 1854 | 1895 | 41 | Shale, red, silty |
| 1895 | 1937 | 42 | Shale, red and green |
| 1937 | 1954 | 17 | Shale, dark-gray |

| Top | Bottom | Thickness | |
|------|--------|-----------|--|
| 1954 | 1964 | 10 | Siltstone, green |
| 1964 | 1972 | 8 | Shale, dark-gray |
| 1972 | 1980 | 8 | Shale, gray 60%; dark gray limestone, 40% |
| 1980 | 1989 | 9 | Shale, gray, 70%; dark-gray limestone 30% |
| 1989 | 1999 | 10 | Shale, red, silty |
| 1999 | 2008 | 9 | Shale, gray to grayish-green, calcareous |
| 2008 | 2018 | 10 | Shale, gray and green |
| 2018 | 2025 | 7 | Limestone, gray, shaly and dolomitic |
| 2025 | 2050 | 25 | No sample |
| 2050 | 2052 | 2 | Sandstone, gray, very fine |
| 2052 | 2074 | 22 | Sandstone, white, fine (gas 2053-2056') |
| 2074 | 2087 | 13 | Siltstone, dark-gray, Shaly |
| 2087 | 2105 | 18 | Sandstone, white, fine |
| 2105 | 2145 | 40 | Shale, dark-gray, thinly laminated; contains a few fossil shell fragments |
| 2145 | 2165 | 20 | No sample |
| 2165 | 2178 | 13 | Shale, gray, thinly laminated, 50%; gray fossiliferous limestone, 50% |
| 2178 | 2230 | 52 | Limestone, gray to brownish, mostly rather dark, with small amounts of gray shale |
| 2230 | 2245 | 15 | No sample |
| 2245 | 2249 | 4 | Shale, gray; large amount of rusty steel in samples |
| 2249 | 2253 | 4 | Shale, gray, fossiliferous |
| 2253 | 2267 | 14 | No sample |
| 2267 | 2286 | 19 | Limestone, dark-gray, shaly |
| 2286 | 2297 | 11 | No Sample |
| 2297 | 2309 | 12 | Limestone, light-brown and white, highly fossiliferous |
| 2309 | 2313 | 4 | Shale, gray, soft |
| 2313 | 2324 | 11 | Limestone, brown with some white; contains many oolites or round objects resembling them |

| Top | Bottom | Thickness | |
|--|--------|-----------|---|
| 2324 | 2338 | 14 | Shale, gray, fossiliferous |
| 2338 | 2348 | 10 | No sample |
| <u>Greenbrier Limestone, 347? feet</u> | | | |
| 2348 | 2355 | 7 | Limestone, white, oolitic (gas 2353-2356'; 10M) |
| 2355 | 2361 | 6 | Limestone, nearly white |
| 2361 | 2394 | 33 | Limestone, very light brown, partly oolitic (gas 2375-2380, 10M) |
| 2394 | 2400 | 6 | No sample (gas 2390'-2395', 52M) |
| 2400 | 2417 | 17 | Limestone, brown (increase in gas 2405-2410') |
| 2417 | 2419 | 2 | No sample |
| 2419 | 2453 | 34 | Limestone, brown to light-brown |
| 2453 | 2460 | 7 | Limestone, brown, sandy |
| 2460 | 2476 | 16 | Limestone, gray, slightly sandy |
| 2476 | 2484 | 8 | Limestone, gray |
| 2484 | 2499 | 15 | Limestone, light-gray; contains a few cleavage fragments of calcite and dolomite; insoluble residue contains many small quartz crystals and a little fluorite, barite, sphalerite, and pyrite (gas 2490-2494', 61M) |
| 2499 | 2500 | 1 | Limestone, light-gray, oolitic |
| 2500 | 2520 | 20 | Limestone, gray to light-gray, with some oolites |
| 2520 | 2546 | 26 | Limestone, light brownish gray with some shell fragments |
| 2546 | 2558 | 12 | Limestone, gray |
| 2558 | 2570 | 12 | Limestone, light-brown |
| 2570 | 2587 | 17 | Limestone, light-gray, oolitic |
| 2587 | 2600 | 13 | Limestone, nearly white, oolitic |
| 2600 | 2661 | 61 | Limestone, light-brown to light-gray |

| Top | Bottom | Thickness | |
|------|--------|-----------|---|
| 2661 | 2668 | 7 | Limestone, brown |
| 2668 | 2676 | 8 | Limestone, nearly white, dolomitic (gas at 2675 - 2680; 70M) |
| | 2676 | | Depth of last sample |
| | 2695 | | Top of Big Injun Sand in record |
| | 2698 | | Total depth (S L M) |