

Tay-8

A. Y. McElroy No. 8534 Well

Booths Creek District, Taylor County, W. Va.

By Hope Natural Gas Company, Clarksburg, W. Va.

Located 1.25 mi. W. of 80°10' and 5.6 mi. S. of 39°25' -NC- Fairmont Quadrangle.

Elevation, 1113' L.

Permit, Tay-8.

Drilling commenced May 15, 1941; completed Aug. 12, 1941.

Shot, Aug. 15, 1941; depth 1614'.

Small gas well; rock pressure 175 lbs. in 24 hrs.

Coal at 140-142' and 295-300'.

Fresh water at 80, 140, and 320'.

10" casing 184'; 8 1/4", 736'; 6-5/8", 1081'; 5-3/16", 1190'.

Samples from 400 to 2298' described by C. Apacuri. Original notes condensed by J. H. C. Martens. The samples show evidence of great amounts of contamination, perhaps mostly from cavings. In many places their correct interpretation is doubtful and there is little agreement between the samples and the driller's record. Therefore this section is not considered as being of very much value.

Top Bottom Thickness

Allegheny and Pottsville Formation, 304+ feet

| Top | Bottom | Thickness | Description |
|-----|--------|-----------|--|
| 400 | 424 | 24 | Sandstone, white, fine to medium-grained |
| 424 | 432 | 8 | Siltstone, dark-brown to gray |
| 432 | 463 | 31 | Shale, gray, silty, 50%; coal, 50% |
| 463 | 469 | 6 | Shale, gray silty |
| 469 | 486 | 17 | Sandstone, white, very fine; some siltstone near top |
| 486 | 504 | 18 | Sandstone, white, fine- to medium-grained |
| 504 | 522 | 18 | Sandstone, white, very coarse |
| 531 | 558 | 27 | Sandstone, white, fine |
| 558 | 570 | 12 | Sandstone, white, fine, 75%; gray shaly siltstone, 25% |
| 570 | 576 | 6 | Siltstone, gray, with siderite spherulites |
| 576 | 612 | 36 | Sandstone, white, fine to very fine, micaceous |
| 612 | 635 | 23 | Sandstone, white, fine to coarse |
| 635 | 644 | 9 | Shale, brown to gray, 75%; black shale and coal, 25% |
| 644 | 650 | 6 | Sandstone, white very fine, grading into siltstone |
| 650 | 668 | 18 | Shale, dark-gray |
| 668 | 683 | 15 | Sandstone, white, very fine, containing siderite |

| Top | Bottom | Thickness | |
|---|--------|-----------|--|
| 683 | 704 | 21 | Sandstone, white, coarse to very coarse |
| <u>Mauch Chunk Group, 329 feet</u> | | | |
| 704 | 718 | 14 | Siltstone, green, 60%; red shale, 40% |
| 718 | 826 | 108 | Shale, red, soft |
| 826 | 832 | 6 | Shale, red, 50%; green shaly siltstone, 50% |
| 832 | 985 | 153 | Siltstone, grayish-green, sandy, micaceous |
| 985 | 1020 | 35 | Siltstone, as above, 50%; red shale, 50% |
| 1020 | 1027 | 7 | Shale, gray, soft, thinly laminated (Pencil Cave), 70%; brown limestone, 30% |
| 1027 | 1033 | 6 | Shale, gray, 70%; very fine green sandstone, 30% |
| 1033 | 1047 | 14 | Shale, red, silty, 50%; green siltstone, 50% (gas at 1042') |
| <u>Greenbrier Limestone, 162 feet</u> | | | |
| 1047 | 1077 | 30 | Limestone, brown, fossiliferous (top of Big Lime is at 1036' in driller's record) |
| 1077 | 1088 | 11 | Limestone, very light brown, oolitic |
| 1088 | 1097 | 9 | Shale, red, 50%; green sandy siltstone, 50% |
| 1097 | 1124 | 27 | Limestone, brown to nearly white |
| 1124 | 1148 | 24 | Limestone, nearly white, sandy; oolitic, 1130-1133' |
| 1148 | 1171 | 23 | Shale, grayish-red, calcareous, 50%; light-green silty limestone, 50% |
| 1171 | 1201 | 31 | Limestone, nearly white, sandy, dolomitic |
| 1202 | 1209 | 7 | Limestone, light-brown, very sandy |
| <u>Lower Mississippian and Upper Devonian, 1089+ feet</u> | | | |
| 1209 | 1280 | 71 | Shale, red, 75%; green shale and shaly siltstone, 25% (driller's record shows "red rock", 1206-1222') |
| 1280 | 1287 | 7 | Sandstone, white to green, fine to very fine; some red and green shale |
| 1287 | 1312 | 25 | Sandstone, white, fine to very fine, 75%; gray siltstone, 25% |
| 1312 | 1365 | 53 | Shale and siltstone, gray, partly sandy |
| 1365 | 1409 | 44 | Siltstone, greenish-gray, shaly |
| 1409 | 1437 | 28 | Shale and siltstone, gray |
| 1437 | 1481 | 44 | Shale, gray |
| 1481 | 1487 | 6 | Shale, gray, silty, 65%; gray sandy siltstone, 35% |
| 1487 | 1514 | 27 | Shale, gray |

| Top | Bottom | Thickness | |
|------|--------|-----------|--|
| 1514 | 1527 | 13 | Shale and siltstone, gray |
| 1527 | 1535 | 8 | Shale, gray, 65%; white, very fine sandstone, 35% |
| 1535 | 1578 | 43 | Shale and siltstone, gray |
| 1578 | 1601 | 23 | Sandstone, white, coarse (gas 1619-1624') |
| 1601 | 1635 | 34 | Sandstone, white, very fine, contains some larger quartz grains |
| 1635 | 1659 | 23 | Shale, brownish-gray to red, 60%; very fine, white, sideritic sandstone, 40% |
| 1658 | 1695 | 37 | Shale, gray |
| 1695 | 1697 | 2 | Siltstone, gray |
| 1697 | 1732 | 35 | Sandstone, white, fine, with some coarser quartz grains, 80% siltstone, gray, 20% |
| 1732 | 1752 | 20 | Siltstone, gray to brown, 50%; white silty sandstone, 30%; gray shale, 20% |
| 1752 | 1802 | 50 | Sandstone, white, fine |
| 1802 | 1834 | 32 | Shale, gray to greenish, 85%; white, fine, silty sandstone, 15%; a little red shale, 1825-1834' |
| 1834 | 1843 | 9 | Sandstone, white very fine |
| 1843 | 1850 | 7 | Shale, gray to green, 75%; white shaly sandstone, 25% |
| 1850 | 1885 | 35 | Sandstone, white, shaly, 40%; red shale, 35%; grayish-green shale, 25% |
| 1885 | 1898 | 13 | Shale, gray, 65%; white silty sandstone, 35% |
| 1898 | 1955 | 57 | Shale, red; also some grayish-green shale |
| 1955 | 1959 | 4 | Sandstone, white, very fine |
| 1959 | 1977 | 18 | Shale, red |
| 1977 | 2005 | 28 | Shale, light-gray to grayish-green |
| 2005 | 2021 | 16 | Sandstone, white to light-gray, very fine |
| 2021 | 2031 | 10 | Shale, gray |
| 2031 | 2048 | 17 | Sandstone, light-green to light-gray, silty, 80% |
| 2048 | 2076 | 28 | Shale, light-gray, 60%; light-gray sandy siltstone, 40% |
| 2076 | 2084 | 8 | Shale, green to gray, 70%; nearly white, very fine sandstone, 30% |
| 2084 | 2100 | 16 | Siltstone, red |
| 2100 | 2112 | 12 | Siltstone, light-gray to greenish |
| 2112 | 2129 | 17 | Shale, gray; also some white fine sandstone |
| 2129 | 2160 | 31 | Sandstone light-gray to green and white, very fine; also some siltstone and some coarser quartz grains |

| Top | Bottom | Thickness | |
|------|--------|-----------|--|
| 2160 | 2170 | 10 | Sandstone, white to reddish, fine to very fine |
| 2170 | 2211 | 41 | Shale, greenish-gray, silty; also some siltstone |
| 2211 | 2233 | 22 | Siltstone, gray to greenish-gray, sandy |
| 2233 | 2243 | 10 | Shale and siltstone, gray |
| 2243 | 2268 | 25 | Siltstone, greenish-gray |
| 2268 | 2298 | 30 | Shale, greenish-gray |
| | 2298 | | Total depth according to samples |
| | 2297 | | Total depth from driller's record |