

George M. Coburn et al. No. 1 well

Valley District, Preston County, W. Va.

By M. E. Davis, 324 Fourth Ave., Pittsburgh, Pa.

Located 3.75 mi. W. of 79°45' and 2.58 mi. S. of 39°35' -SE- Morgantown Quadrangle.

Elevation, 1775'.

Permit, Preston-1

Drilling commenced June 14, 1941; completed July 19, 1941.

Dry hole.

Located 35 feet below Upper Freeport Coal.

Coal was encountered at 201 to 207'.

Samples from surface to 1246' examined by C. Apsouri.

Adding the estimated interval of 35 feet from the Upper Freeport Coal to the top of the well to that shown by the samples, the total thickness of the Allegheny Formation is 267 feet.

| Top | Bottom | Thickness | |
|---------------------------------------|--------|-----------|---|
| <u>Allegheny Formation, 252+ feet</u> | | | |
| 0 | 6 | 6 | Shale, dark-gray to brownish |
| 6 | 12 | 6 | Shale, yellow silty |
| 12 | 18 | 6 | Shale, gray |
| 18 | 24 | 6 | Siltstone, light-gray, sandy |
| 24 | 30 | 6 | Siltstone, light-gray, 80%; brown shale, 20% |
| 30 | 36 | 6 | Sandstone, white, fine- to medium-grained, 80%; gray shaly siltstone, 15%; coal, 5% |
| 36 | 68 | 32 | Sandstone, white, coarse |
| 68 | 78 | 10 | Shale, gray |
| 78 | 84 | 6 | Shale, light-gray, silty |
| 84 | 90 | 6 | Siltstone, brownish, 80%; gray shale, 20% |
| 90 | 96 | 6 | Sandstone, gray, fine; 80%; gray shale, 20% |
| 96 | 100 | 4 | No sample |
| 100 | 106 | 6 | Siltstone, gray |
| 106 | 112 | 6 | Siltstone, gray, 95%; black shale and coal, 5% |
| 112 | 118 | 6 | Siltstone, brownish |
| 118 | 124 | 6 | No sample |
| 124 | 146 | 22 | Sandstone, white, very fine |

| Top | Bottom | Thickness | |
|---------------------------------------|--------|-----------|--|
| 146 | 170 | 24 | Sandstone, white, medium-grained; about 10 to 30% of gray sandy siltstone from 152 to 170' |
| 170 | 176 | 6 | Shale, light-gray |
| 176 | 188 | 12 | Siltstone, light-gray, sandy |
| 188 | 194 | 6 | Shale, light-gray |
| 194 | 201 | 7- | Shale, gray, 75%; black shale, 25% |
| 201 | 207 | 6 | Coal (Clarion) (black shale) |
| 207 | 220 | 13 | Siltstone, brown, very sandy |
| 220 | 226 | 6 | Siltstone, brownish, very sandy, 75%; coal and black shale, 25% |
| 226 | 232 | 6 | Siltstone, brownish, very sandy, 85%; gray shale, 15% |
| <u>Pettsville Formation, 261 feet</u> | | | |
| 232 | 250 | 18 | Sandstone, white, very fine, 85%; black shale with trace of coal, 15% (Homewood Sandstone) |
| 250 | 279 | 29 | Siltstone, gray, very sandy |
| 279 | 291 | 12 | Sandstone, white, fine to coarse, 50%; siltstone, gray, very sandy |
| 291 | 418 | 127 | Sandstone, white, medium- to coarse-grained; some thin streaks of shale, siltstone and finer sandstone (Upper Connoquenessing Sandstone) |
| 418 | 430 | 12 | Siltstone, gray, shaly |
| 430 | 445 | 15 | Sandstone, white to gray, very fine, silty |
| 445 | 451 | 6 | Sandstone, white, medium-grained |
| 451 | 469 | 18 | Sandstone, white, very coarse |
| 469 | 477 | 8 | Shale, gray, with a little coal |
| 477 | 479 | 2 | No sample |
| 479 | 489 | 10 | Sandstone, white, very coarse |
| 489 | 493 | 4 | Sandstone, white, very fine |
| <u>Mauch Chunk Group, 259 feet</u> | | | |
| 493 | 498 | 5 | Shale, yellow, soft, 60%; siltstone, green, sandy |
| 498 | 507 | 9 | Shale, red, soft |
| 507 | 538 | 31 | Sandstone, white to greenish, very fine |
| 538 | 600 | 62 | Sandstone, white, medium-grained |
| 600 | 610 | 10 | Sandstone, white, medium-grained, pyritic in upper 5 feet |

| Top | Bottom | Thickness | |
|---------------------------------------|--------|-----------|--|
| 610 | 615 | 5 | Sandstone, white, medium-grained, 75%; gray, silty shale, 25% |
| 615 | 621 | 6 | Sandstone, white, fine- to medium-grained |
| 621 | 651 | 30 | Sandstone, white to grayish-green, fine to very fine |
| 651 | 663 | 12 | Shale, very light gray, soft |
| 663 | 670 | 7 | No sample |
| 670 | 703 | 33 | Sandstone, white to grayish-green, very fine |
| 703 | 709 | 6 | Shale, red, calcareous |
| 709 | 733 | 15 | Shale, greenish-gray, calcareous |
| 733 | 741 | 8 | Shale, gray, soft, thinly laminated |
| 741 | 755 | 14 | Shale, red, soft, calcareous |
| <u>Greenbrier Limestone, 191 feet</u> | | | |
| 755 | 838 | 80 | Limestone, light-gray to light-brown and nearly white |
| 838 | 850 | 12 | Limestone, brown to white; also considerable amount of gray and green shale and some quartz sand |
| 850 | 867 | 17 | Limestone, brown to nearly white |
| 867 | 873 | 6 | Limestone, brown, 75%; green and red shale, 20%; white, very fine sandstone, 5% |
| 873 | 879 | 6 | Sandstone, white, very fine |
| 879 | 884 | 5 | Sandstone, white, calcareous, 50%; brown calcareous siltstone, 50%; brown limestone, 20% |
| 884 | 889 | 5 | Limestone, brown, partly sandy, 50%; green calcareous shale, 40%; red shale, 10% |
| 889 | 893 | 4 | Shale, red, 50%; green shale, 25%; nearly white limestone, 25% |
| 893 | 900 | 7 | Shale, red |
| 900 | 915 | 15 | Limestone, nearly white; some sand in lower 10 feet |
| 915 | 946 | 31 | Limestone, nearly white, sandy |
| <u>Pocono Formation, 300+ feet</u> | | | |
| 946 | 952 | 6 | Sandstone, white, coarse |
| 952 | 958 | 6 | Siltstone, red, shaly |
| 958 | 965 | 7 | Siltstone, green, sandy |
| 965 | 972 | 7 | Shale, red, silty |
| 972 | 992 | 20 | Sandstone, red, medium- to fine-grained |
| 992 | 1008 | 16 | Siltstone, red and green, sandy |

| Top | Bottom | Thickness | |
|------|--------|-----------|---|
| 1008 | 1022 | 14 | Siltstone, gray, sandy |
| 1022 | 1034 | 12 | Sandstone, white, medium-grained |
| 1034 | 1060 | 26 | Shale, gray |
| 1060 | 1075 | 15 | Shale, gray, 80%; brown, very fine sandstone with siderite spherulites, 20% |
| 1075 | 1169 | 94 | Sandstone, white, fine, silty, 80%; gray shale, 20% |
| 1169 | 1183 | 14 | Sandstone, white, medium-grained |
| 1183 | 1190 | 7 | Sandstone, white, very fine |
| 1190 | 1208 | 18 | Shale, gray |
| 1208 | 1246 | 38 | Siltstone, gray, shaly and sandy |
| | 1246 | | Total depth |