

PIPE LINE CONSTRUCTION AND DRILLING COMPANY

1-B F. H. CURTIS WELL

Buchanan County, Virginia

Location: 1.02 miles west of 82° 05',
0.02 miles north of 37° 15'

Derrick floor elevation: 1208.5 Total depth: 5751

No drillers log or well record available

Samples examined by David G. Bowen, 1955

POST-LEE FORMATION BEDS (PENNSYLVANIAN) UNDIVIDED

- 0 - 80 No sample
- 80 - 86 Shale, dark-gray, moderately hard
- 86 - 118 Shale, gray, micaceous, soft
- 118 - 125 Sandstone, white, medium- to coarse-grained, subangular to subrounded, quartzose, small amount of green mineral and dark mineral
- 125 - 133 Sandstone, same as above, but mostly medium-grained, some fine grains and coarse grains, small amount of siderite
- 133 - 138 Sandstone, same as above, but mostly fine-grained, trace of siderite
- 138 - 157 Sandstone, same as above, but medium- to fine-grained, at 143-157 slightly chloritic and micaceous
- 157 - 164 Shale, gray, moderately hard, in part micaceous
- 164 - 176 Shale, same as above, but gray to dark-gray
- 176 - 186 Shale, dark-gray, finely micaceous, moderately hard
- 186 - 196 Shale, same as above, but somewhat carbonaceous

X TOP LEE FORMATION 196

- * 196 - 206 Sandstone, gray, very fine grained to silt, quartzose, micaceous, dirty
- 206 - 227 Sandstone, white, fine-grained, angular to subangular, quartzose, slightly micaceous, small amount of argillaceous

material

- 227 - 235 Shale, brownish-gray, very micaceous, slightly silty
- 235 - 245 Shale, tannish-gray, soft; and sandstone, gray, very fine grained, quartzose, micaceous, argillaceous; a little coal
- 245 - 253 Sandstone, white, fine- to very fine grained, subangular, quartzose, moderately micaceous, moderate amount of dark mineral
- 253 - 265 Sandstone, white, medium- to coarse-grained, few fine grains, angular to subrounded, quartzose, small amount of green mineral and dark mineral, tan calcite cement
- 265 - 275 Sandstone, same as above, but with a few very coarse grains, a little argillaceous material, no calcite cement
- 275 - 286 No sample
- 286 - 301 Sandstone, white, medium-grained, some coarse and fine grains, angular to subrounded, quartzose, slightly micaceous, small amount of green mineral and dark mineral, slightly sideritic, small amount of argillaceous material
- 301 - 309 Siltstone, tannish-gray, quartzose, feldspathic, micaceous; a little interbedded shale, gray, finely micaceous
- 309 - 317 Sandstone, light-gray to tannish-gray, very fine to fine-grained, subangular, quartzose, feldspathic, micaceous, dirty
- 317 - 326 Sandstone, same as above; and shale, gray, very silty, micaceous
- 326 - 374 Siltstone, gray, quartzose, feldspathic, dirty; and interbedded shale, gray, very silty, micaceous
- 374 - 384 ^{SWST} Shale, gray, in part micaceous, moderately hard; a little limestone, gray, very argillaceous, dense
- 384 - 395 Shale, same as above; some sandstone, white to light-gray, very fine grained, quartzose, clean; a little siltstone, gray, quartzose, dirty, slightly calcareous
- 395 - 402 Sandstone, same as above; and siltstone, same as above, but not calcareous

- 402 - 409 No sample
- 409 - 417 Shale, gray, slightly silty, finely micaceous; and interbedded siltstone, gray, quartzose, dirty
- 417 - 424 Shale, gray, finely micaceous; a little interbedded siltstone, same as above
- 424 - 432 Siltstone, gray to light-gray, quartzose, dirty, slightly calcareous; a little interbedded shale, dark-gray, carbonaceous
- 432 - 442 Siltstone, same as above, but mostly gray, in part slightly calcareous; some interbedded shale, gray, finely micaceous
- 442 - 465 No sample
- 465 - 479 Sandstone, white, fine- to very fine grained, angular to subangular, quartzose, clean except for a trace of brown mineral, at 472-479 some is light-tan with a small amount of dark mineral and green mineral
- 479 - 486 Sandstone, same as upper portion above, but clean
- 486 - 491 Sandstone, same as above, but medium-grained, some fine grains, few coarse grains
- 491 - 506 Sandstone, same as above, but medium- to fine-grained, at 501-506 occasional green mineral and dark mineral
- 506 - 516 Sandstone, same as upper portion above, but mostly fine-grained
- 516 - 529 Sandstone, same as above, but with some coarse to very coarse grains, occasional pebble fragment of milky-white quartz
- 529 - 535 Sandstone, same as above, but medium- to fine-grained, some coarse grains, ~~no~~ pebble fragments
- 535 - 541 Sandstone, same as above, but few coarse grains, occasional pebble fragment of milky-white quartz
- 541 - 548 Sandstone, same as above, but medium-grained, occasional coarse grain, no pebble fragments
- 548 - 576 No sample

- 576 - 582 Sandstone, same as 541-548
- 582 - 586 Sandstone, same as above; and coal; a little shale, dark-gray, carbonaceous
- 586 - 596 No sample
- 596 - 604 Sandstone, same as 582-586
- 604 - 657 No sample
- 657 - 710 Sandstone, gray, fine- to very fine grained, quartzose, much coaly material, at 667-710 tannish-gray, at 657-687 and 706-710 slightly calcareous, at 687-697 in part very calcareous; at 687-710 a small amount of coaly material; at 697-710 laminated with some shale, gray
- 710 - 732 No sample
- 732 - 745 Sandstone, tannish-gray, fine- to very fine grained, quartzose, argillaceous, dirty
- 745 - 755 Sandstone, same as above, but very fine grained
- 755 - 772 Sandstone, white to tannish-gray, fine-grained, some medium grains and coarse grains, quartzose, slightly argillaceous
- 772 - 795 No sample
- 795 - 810 Sandstone, white, fine-grained, subangular, quartzose, slightly micaceous, small amount of dark mineral, nearly clean
- 810 - 816 Shale, dark-gray, somewhat carbonaceous, hard
- 816 - 847 No sample
- 847 - 857 Siltstone, tan, quartzose; a little sandstone, tan, fine-grained, quartzose, calcareous
- 857 - 867 Siltstone, tan to black, in part carbonaceous, quartzose
- 867 - 875 Siltstone, tan, in part dark-gray, quartzose, argillaceous
- 875 - 900 No sample
- 900 - 914 Siltstone, tan, in part dark-gray, quartzose, argillaceous,

in part calcareous; and shale, gray to dark-gray, in part carbonaceous

- 914 - 924 Siltstone, gray, quartzose; some shale, gray
- 924 - 946 No sample
- 946 - 986 Shale, black, slightly silty, carbonaceous
- 986 -1090 No sample
- 1090-1153 Sandstone, white, fine-grained, angular to subangular, quartzose, clean except for a small amount of carbonaceous to argillaceous material at 1090-1122
- 1122
- 1153-1161 Sandstone, same as lower part above, but medium- to coarse-grained, some fine grains, some pebble fragments of milky-white quartz
- 1161-1186 No sample
- 1186-1201 Sandstone, same as 1153-1161, but medium- to fine-grained, some coarse grains, many pebble fragments of milky-white quartz
- 1201-1230 Sandstone, same as above, but medium- to coarse-grained, many pebble fragments
- 1230-1247 Sandstone, same as above, but medium- to fine-grained, few coarse grains, no pebble fragments
- 1247-1252 No sample
- 1252-1265 Sandstone, same as 1230-1247, but with pebble fragments of milky-white quartz
- 1265-1276 Sandstone, same as above, but mostly medium- to coarse-grained, pebble fragments
- 1276-1281 Sandstone, gray to white, medium- to fine-grained, occasional coarse grain, angular to subangular, quartzose, slightly micaceous, small amount of green mineral, dirty with coaly material, slightly calcareous; a little coal
- 1281-1295 Sandstone, same as above, but light-gray, less coaly material, in part slightly calcareous
- 1295-1303 No sample

- 1303-1308 Sandstone, same as above, but not calcareous; and siltstone, gray, quartzose, micaceous, argillaceous
- 1308-1313 Siltstone, same as above; laminated with shale, gray, micaceous
- 1313-1318 Shale, gray to light-gray, finely micaceous; a little siltstone, same as above (about 30% of sample is coal which appears to be cavings)
- 1318-1330 Siltstone, same as above, but more argillaceous
- 1330-1343 Shale, dark-gray, carbonaceous, plant fossils; a very little coal
- 1343-1353 Siltstone, gray, quartzose, slightly feldspathic, argillaceous and micaceous laminations
- 1353-1365 Shale, light-gray, siderite nodules; and shale, gray to dark-gray, carbonaceous
- 1365-1376 Siltstone, gray, quartzose, coaly and argillaceous laminations
- 1376-1420 Siltstone, same as above, but grading in part to sandstone, white, very fine grained, at 1391-1402 sandstone is calcareous; and interbedded shale, gray, silty
- 1420-1458 Sandstone, white, fine- to very fine grained, subangular, quartzose, clean, at 1420-1435 occasional pebble fragment of milky-white quartz
- 1458-1462 No sample
- 1462-1467 Sandstone, same as lower part of 1420-1458
- 1467-1481 No sample
- 1481-1490 ^{SILTST.} Sandstone, same as 1462-1467, but mostly fine-grained, subangular to subrounded; and shale, gray, silty, micaceous
- 1490-1496 Sandstone, same as above; some shale, same as above
- 1496-1504 Sandstone, very light gray, fine- to very fine grained, angular to subangular, quartzose, micaceous, chloritic, slightly sideritic

TOP BLUESTONE FORMATION (MISSISSIPPIAN) 1504

- 1504-1511 Siltstone, pale-green, quartzose; and shale, pale-green, micaceous, siderite nodules, soft
- 1511-1516 Shale, dull-red, soft
- 1516-1520 Shale, maroon to dull-red, in part calcareous, soft
- 1520-1525 No sample
- 1525-1546 Shale, red, soft; and siltstone, pale-green, quartzose, argillaceous, slightly calcareous
- 1546-1558 Shale, pale-green, silty, micaceous, moderately hard
- 1558-1571 Shale, red, in part calcareous, moderately hard; a little siltstone, white, quartzose, slightly calcareous
- 1571-1584 Shale, same as above; some siltstone, same as above, but calcareous
- 1584-1600 Shale, red to very light gray, moderately hard; some siltstone, green
- 1600-1631 No sample
- 1631-1640 Sandstone, very pale green, very fine grained, subangular, quartzose, green mineral, slightly calcareous
- 1640-1647 Shale, gray, moderately hard
- 1647-1650 No sample
- 1650-1660 Siltstone, white to light-gray, in part very argillaceous, very calcareous; and interbedded shale, light-gray, very calcareous
- 1660-1690 Shale, same as above; a little interbedded siltstone, same as above
- 1690-1700 Shale, same as above; and siltstone, same as above, but with fossil fragments and ostracods
- 1700-1710 Shale, black, carbonaceous, pyritic, calcareous, moderately hard
- 1710-1720 Shale, light-gray, carbonaceous specks, siderite nodules, soft
- 1720-1735 No sample

- 1735-1745 Shale, same as 1710-1720
- 1745-1750 No sample
- 1750-1756 Shale, same as 1735-1745; and shale, black, carbonaceous, pyritic
- 1756-1759 Shale, same as light-gray above; some shale, same as black above
- 1759-1773 No sample
- 1773-1784 Shale, light-gray, few siderite nodules
- 1784-1792 Shale, same as above; and sandstone, white, fine-grained, occasional coarse grain, angular to subangular, quartzose; clean, calcareous
- 1792-1800 Sandstone, white to light-gray, fine-grained to silt, angular to subangular, quartzose, some argillaceous laminations
- 1800-1805 Sandstone, same as above, but white, very fine grained; and shale, light-gray, soft
- 1805-1817 Sandstone, same as above; and shale, same as above
- 1817-1823 Shale, gray, moderately hard
- 1823-1845 No sample
- 1845-1856 Shale, gray to dark-gray, moderately hard
- 1856-1888 Shale, dark-gray, moderately hard
- 1888-1898 Shale, same as above, but slightly pyritic and calcareous, in part slightly silty
- 1898-1914 No sample
- 1914-1934 Shale, black, silty, pyritic, slightly calcareous
- 1934-1946 Shale, gray, finely micaceous, in part slightly silty; some siltstone, gray

TOP PRINCETON SANDSTONE 1946