

UNITED PRODUCING COMPANY

2-1466 YUKON-POCAHONTAS COAL COMPANY WELL

Buchanan County, Virginia

Location: 1.94 miles west of 82° 00',
0.33 miles south of 37° 10'

Ground elevation: 1751

Total depth: 5100

Drilling commenced: November 13, 1947

Drilling completed: July 4, 1948

Water: 20, small show; 55, HFV; 484, 3 BPD; 1310, salt, 2 BPD

Gas: 1585, show

Oil: 1086, small show

Casing record: 16 at 14, 13 3/8 at 150, 10 3/4 at 867, 8 5/8 at 2456

Depth corrections: None

Samples examined by David G. Bowen, 1958

POST-LEE FORMATION BEDS (PENNSYLVANIAN) UNDIVIDED

- 0 - 79 No sample
- 79 - 83 Sandstone, white, medium-grained, subangular, quartzose, slightly glauconitic and chloritic, moderate amount of carbonaceous material
- 83 - 89 Shale, dark-gray, silty; some sandstone, same as above
- 89 - 94 Sandstone, white to yellow, medium-to fine-grained, subrounded to subangular, quartzose, moderately micaceous; some shale, same as above
- 94 - 100 Sandstone, same as above, but all white and fine-grained
- 100 - 105 Shale, gray, silty
- 105 - 110 Sandstone, gray, very fine grained, subangular, quartzose, many accessory minerals
- 110 - 138 Sandstone, white, medium-to fine-grained, subangular, quartzose, moderately micaceous, moderately glauconitic and chloritic
- 138 - 145 Shale, gray to brown
- 145 - 150 Sandstone, white, fine-grained, subangular, quartzose, moderately micaceous

- 150 - 155 Shale, gray; some sandstone, white, medium-to fine-grained, subangular, quartzose, moderately micaceous, moderately chloritic and glauconitic, moderate amount of siderite (?) nodules
- 155 - 174 Sandstone, same as above
- 174 - 179 Sandstone, white, medium-grained, subangular, quartzose, moderately chloritic and glauconitic, slightly micaceous, moderate amount of carbonaceous material
- 179 - 200 No sample
- 200 - 283 Sandstone, white, medium-to fine-grained, subangular, quartzose, moderately chloritic and glauconitic, slightly micaceous
- 283 - 292 Sandstone, same as above; and sandstone, dark-gray, fine-grained, quartzose, much dark mineral, carbonaceous material on bedding surfaces
- 292 - 300 Shale, dark-gray, carbonaceous
- 300 - 309 Sandstone, same as dark-gray type at 283-292 above
- 309 - 332 Shale, dark-gray, at 309-318 silty
- 332 - 340 Sandstone, white, medium-to fine-grained, subangular, quartzose, moderately glauconitic and micaceous
- 340 - 346 Shale, dark-gray
- 346 - 424 Sandstone, white, medium-to fine-grained, subangular, quartzose, slightly glauconitic and micaceous, at 374-380 some interstitial carbonaceous material, at 380-390 some shale, dark-gray to gray, siderite nodules
- 424 - 435 Shale, dark-gray; some sandstone, white, medium-to coarse-grained, subangular, quartzose
- 435 - 445 Shale, dark-gray, slightly pyritic
- 445 - 455 Shale, dark-gray to gray to brown, in part silty
- 455 - 467 Shale, gray; and sandstone, gray, fine-grained, subangular, quartzose, slightly micaceous
- 467 - 506 Sandstone, white, fine-to medium-grained, subangular,

409-408 coal

484-487

quartzose, slightly chloritic and glauconitic, slightly micaceous, at 484-492 very micaceous

- 506 - 525 Shale, dark-gray, a little brown, in part silty
 525 - 533 Shale, same as above, but no brown; and sandstone, gray to dark-gray, fine-grained, quartzose, dirty
 533 - 558 Shale, dark-gray, a little brown, very silty

TOP LEE FORMATION 558

- 558 - 574 Sandstone, gray, very fine grained, quartzose, dirty; probably interbedded with shale, dark-gray, silty
 574 - 581 Shale, dark-gray to brown
 581 - 620 Sandstone, white, medium-to fine-grained, subangular, quartzose, slightly micaceous, slightly chloritic and glauconitic
 620 - 632 Shale, dark-gray to gray to light-brown, rather carbonaceous, pyritic
 632 - 650 Sandstone, white to dark-gray, medium-to fine-grained, subangular, quartzose, moderately micaceous, moderately chloritic and glauconitic, carbonaceous material on bedding surfaces
 650 - 670 Sandstone, gray, fine-grained, subangular, quartzose, carbonaceous material on bedding surfaces; interbedded with some shale, dark-gray
 670 - 709 Shale, dark-gray
 709 - 726 Sandstone, gray, fine-grained, subangular, quartzose, moderately micaceous, dirty
 726 - 750 Sandstone, gray, medium-to fine-grained, subangular, quartzose, slightly micaceous and chloritic, carbonaceous material
 750 - 756 Sandstone, same as above; some shale, dark-gray, plant fossils, coaly
 756 - 775 Sandstone, same as above, but no mica or chlorite
 775 - 783 Sandstone, same as above; and shale, dark-gray
 783 - 796 Shale, dark-gray

- 796 - 806 Shale, dark-gray to light-gray and tan to brown, silty in part
- 806 - 827 Sandstone, dark-gray to gray, fine-grained, subangular, quartzose, much carbonaceous material
- 827 - 852 Sandstone, same as above, but all dark-gray
- 852 - 863 Sandstone, same as above, 75%; coal, 15%; shale, dark-gray, 10%
- 863 - 866 No sample
- 866 - 874 Sandstone, same as 852-863 above; some shale, dark-gray, silty
- 874 - 890 Sandstone, same as above
- 890 - 914 Sandstone, white, medium-to fine-grained, subangular, quartzose, moderately micaceous and chloritic, moderate amount of dark mineral, at 904-914 some carbonaceous material
- 914 - 924 Sandstone, same as above; some shale, dark-gray, silty, micaceous, carbonaceous
- 924 - 933 Sandstone, gray to dark-gray, fine-grained, subangular, quartzose, carbonaceous laminations
- 933 - 942 Sandstone, same as above; and shale, dark-gray, silty, micaceous
- 942 - 948 Shale, same as above
- 948 - 957 Shale, dark-gray
- 957 - 963 Coal, 80%; shale, gray, plant fossils, 20%
- 963 - 971 Shale, gray, 60%; coal, 40%
- 971 - 979 Coal, 100%
- 979 - 985 Shale, gray to brown, carbonaceous laminations
- 985 - 1014 Sandstone, gray, medium-to fine-grained, subangular, quartzose, rather dirty, much carbonaceous material; interbedded in lower two-thirds with some shale, dark-gray

953-960

960-962

- 1014-1027 Sandstone, gray, fine-grained, subangular, quartzose, rather dirty, some coal (?) grains, at 1022-1027 moderately micaceous and glauconitic
- 1027-1036 Sandstone, white, medium-grained, subangular to subrounded, quartzose, slightly chloritic and glauconitic
- 1036-1045 Sandstone, same as above; and shale, gray, very silty
- 1045-1048 Sandstone, same as above
- 1048-1054 Sandstone, white and gray, fine-grained, subangular, quartzose, slightly micaceous
- 1054-1119 Sandstone, white, medium-to fine-grained, subangular to subrounded, quartzose, at 1054-1065 slightly micaceous and glauconitic, at 1082-1119 micaceous and chloritic, at 1102-1119 glauconitic
- 1119-1125 Shale, dark-gray; a little coal, pyritic
- 1125-1147 Shale, gray to brown, silty, micaceous
- 1147-1155 Shale, dark-gray to gray, in part micaceous and extremely silty; a little coal
- 1155-1162 Shale, gray, very silty, micaceous; and sandstone, white, medium-to fine-grained, subangular, quartzose, slightly micaceous and chloritic
- 1162-1175 Sandstone, same as above, but at 1171-1175 slightly glauconitic
- 1175-1183 Sandstone, same as 1171-1175 above; and sandstone, brown, medium-to fine-grained, subangular to subrounded, quartzose, carbonaceous material on bedding surfaces
- 1183-1190 Sandstone, same as 1171-1175 above
- 1190-1214 Shale, gray, at 1207-1214 in part silty
- 1214-1220 Coal, 40%; sandstone, white, medium-grained, subangular, quartzose, and sandstone, brown, fine-grained, subangular, quartzose, carbonaceous, 30%; shale, gray to dark-gray, 30%
- 1220-1234 Shale, gray, silty; apparently interbedded with sandstone, brown to gray, fine-grained, subangular, quartzose, carbonaceous

1130-1133

1214-1218

- 1234-1241 Sandstone, light-tan to gray, fine-grained, subrounded, quartzose, carbonaceous laminations
- 1241-1252 Sandstone, same as above; and interbedded shale, gray, silty
- 1252-1269 Shale, dark-gray, small amount is brown; at 1258-1263 a little coal
- 1269-1280 Shale, light-gray, silty, micaceous; some sandstone, light-gray, fine-grained, subangular, quartzose, few coal grains
- 1280-1287 Sandstone, white, fine-grained, subangular, quartzose, slightly micaceous and chloritic, slightly glauconitic, 70%; coal, 30%
- 1287-1353 Sandstone, light-gray, medium- to fine-grained, subangular, quartzose, moderately micaceous, slightly chloritic, at 1298-1325 and 1339-1353 a few coal (?) grains, at 1325-1339 carbonaceous, at 1349-1353 mostly fine-grained
- 1353-1363 Sandstone, same as 1349-1353 above; some shale, light-tan
- 1363-1373 Shale, gray with a little brown, extremely silty
- 1373-1383 Shale, gray to dark-gray, in part very silty; a little coal
- 1383-1402 Sandstone, light-tan, very fine grained, subangular, quartzose; some interbedded shale, dark-gray to gray, pyritic
- 1402-1450 Sandstone, white, medium- to fine-grained, probably subangular, quartzose
- 1450-1463 Sandstone, white, fine-grained, subangular to subrounded, quartzose, few dark grains
- 1463-1475 Shale, gray to dark-gray, siderite nodules
- 1475-1484 Shale, dark-gray
- 1484-1492 Shale, dark-gray to gray, in part silty, in part micaceous
- 1492-1501 Shale, gray, extremely silty
- 1501-1517 Sandstone, white, fine-grained, subangular, quartzose; possibly some interbedded shale, gray, silty, micaceous
- 1517-1534 Sandstone, white, medium- to fine-grained, subangular, quartzose

Pesty clay

Pesty clay

- 1534-1543 Shale, light-tan to gray, extremely silty; a little coal
- 1543-1553 Shale, same as above, but with siderite nodules; a little sandstone, gray, very fine grained, subangular, quartzose
- 1553-1563 Shale, gray; and sandstone, same as above
- 1563-1572 Shale, gray to dark-gray; (a little coal)
- 1572-1627 Sandstone, white to gray, medium-to fine-grained, subangular, quartzose, slightly micaceous, moderately chloritic, a few coal (?) grains, at 1581-1627 slightly glauconitic, at 1594-1627 in part subrounded, at 1609-1627 carbonaceous
- 1627-1637 Sandstone, gray, medium-grained, subrounded to rounded, quartzose, moderately micaceous and glauconitic, carbonaceous
- 1637-1647 Shale, gray, in part silty, slightly micaceous; a little coal
- 1647-1658 Shale, gray, in part extremely silty; some interbedded coal
- 1658-1680 Siltstone, gray, quartzose, slightly micaceous, at 1668-1680 poorly developed siderite nodules
- 1680-1692 Shale, gray; some siltstone, gray, quartzose
- 1692-1700 Shale, gray to dark-gray, 60%; coal, 40%
- 1700-1706 Coal, 80%; siltstone, gray, 20%
- 1706-1734 Siltstone, gray, quartzose; some interbedded shale, gray
- 1734-1750 Shale, gray with a little brown, moderate amount of coaly material; interbedded with a little siltstone, gray
- 1750-1760 Siltstone, gray; some shale, gray to dark-gray; trace of shale, dark-maroon, silty
- 1760-1819 Sandstone, dark-gray to gray, medium-to fine-grained, subangular, quartzose, much carbonaceous material; interbedded with a little siltstone, dark-gray, quartzose
- 1819-1830 Sandstone, white, medium-to fine-grained, subangular, quartzose; a little interbedded shale, dark-gray

- 1830-1842 Sandstone, light-gray, medium-to fine-grained, subangular, quartzose, carbonaceous material on bedding surfaces, at 1835-1842 slightly micaceous; a little interbedded shale, dark-gray
- 1842-1883 Sandstone, white, medium-to fine-grained, subangular, quartzose, carbonaceous material on bedding surfaces
- 1883-1887 Sandstone, same as above, 70%; coal, 30%
- 1887-1893 Sandstone, same as above, 50%; coal, 50%
- 1893-1937 Sandstone, light-gray, medium-to fine-grained, subangular, quartzose, at 1927-1937 coal (?) grains
- 1937-1967 Siltstone, light-gray to white, quartzose, at 1958-1967 trace of shale, light-greenish gray and orange-red
- 1967-1975 Siltstone, light-greenish gray to white, quartzose, micaceous, 70%; shale, light-gray, 20%; sandstone, white, medium-to fine-grained, subangular, quartzose, coal grains, 10%
- 1975-1985 Same as above
- 1985-1995 Siltstone, light-greenish gray to gray to white, quartzose, in part with siderite nodules
- 1995-2000 Siltstone, light-greenish gray, a little white, quartzose, 75%; shale, light-greenish gray to light-gray, 25%
- TOP BLUESTONE FORMATION (MISSISSIPPIAN) 2000
- 2000-2017 Shale, mostly maroon, some light-green, a little light-gray, slightly micaceous
- 2017-2026 Shale, maroon and green, slightly micaceous; some siltstone, light-green, quartzose
- 2026-2031 Shale, light-green to maroon to gray; a little siltstone, same as above
- 2031-2041 Shale, bright-red
- 2041-2050 Shale, same as above; a little sandstone, green, fine-grained, subangular, quartzose
- 2050-2055 Shale, red to maroon, a little gray; a little sandstone, same as above

- 2055-2060 Shale, red, light-gray, light-green, in part with floating fine quartz grains; and sandstone, light-green with dark specks, fine-grained to silt, subangular, quartzose, very slightly feldspathic
- 2060-2074 Sandstone, light-green to white, fine-grained to silt, subangular, quartzose, very slightly feldspathic
- 2074-2083 Siltstone, light-green to light-gray, quartzose, very slightly feldspathic
- 2083-2097 Siltstone, same as above; some interbedded shale, olive-green to gray to light-gray
- 2097-2104 Sandstone, light-gray to light-greenish gray, fine-grained, to silt, subangular, quartzose
- 2104-2110 Sandstone, same as above, but a little white; some shale, gray to light-gray, somewhat silty and micaceous
- 2110-2205 Sandstone, white, fine-grained, subangular, quartzose, essentially clean, at 2185-2192 slightly micaceous, at 2128-2139 and 2154-2169 laminations of coaly material
- 2205-2212 Shale, dark-gray, slightly silty and micaceous
- 2212-2250 Shale, same as above; and interbedded sandstone, gray to light-gray, fine-grained, subangular, quartzose, moderately feldspathic, moderately pyritic, some carbonaceous material
- 2250-2275 Sandstone, same as above, but gray; interbedded with a little shale, same as above
- 2275-2300 Shale, dark-gray to some chocolate-brown, carbonaceous, slightly pyritic
- 2300-2320 Siltstone, gray, quartzose, in the lower part argillaceous
- 2320-2336 Shale, dark-gray to gray, in part carbonaceous and pyritic, in part silty and micaceous
- 2336-2345 Shale, dark-brownish gray, carbonaceous
- 2345-2362 Shale, dark-gray, in part pyritic
- 2362-2371 Shale, gray

- 2371-2387 Sandstone, light-gray, in the lower part with a faint greenish cast, fine-grained, subangular, quartzose, in the upper part much argillaceous cement; and interbedded shale, gray to light-gray, floating quartz grains, in the upper part pyritic
- 2387-2414 Shale, light-gray, in part silty; some interbedded sandstone, same as lower portion above
- 2414-2425 Sandstone, same as above, but light-greenish gray, very slightly feldspathic; some shale, light-greenish gray to light-gray
- 2425-2432 Limestone, cream to yellowish-brown, sandy; and sandstone, yellowish-brown, fine-grained, subrounded, quartzose, calcareous, 70%; sandstone and shale, same as above, but both light-green, 30%

TOP PRINCETON SANDSTONE 2432