Operator: Columbia Gas Trans. Corp.

Farm: The Pittston Co.

Well No.: 9643 Elevation: 1599.33'

Location: Buchanan County

3850' E of 82°15' 4500' N of 37°15'

Total Depth: 4472'

Remarks: Elevation and location of well site with reference to coal geology along Barts Lick Creek and measured section No. 94, indicate that well located about 15' below the Dorchestor coal horizon.

Formational boundaries determined from electrical logs, which are measured from 7 feet above ground level. Depths below are uncorrected.

<u>Formation</u>		Top	Bottom	Thickness
Pennsylvanian System				
Post Lee Formation	Dorchestor Hagy coal a	coal at -15' at 200' coal at 300' (284	-286)	
Lee Formation	quartzose s	672 sand 672-728 sand 1141-1153 sand 1162-1185 sand 1218-1327 sand 1410-1422 sand 1442-1448 sand 1456-1487 sand 1501-1504 sand 1513-1525 soal horizon at 155 and 1685-1736 sand 1750-1808 sand 1813-1860 szose sand	1860 50' (1597 - 1600)	1188' 56' 12' 23' 109' 12' 6' 31' 3' 12'
Pocahontas Formation		1860?	1890	30 ' ?
Mississippian System			÷	
Bluestone Formation		1890	2565	675'
Pride Shale		2240	2565	325 '
Princeton Interval		2565	2601	36 '
Little Stone Gap Member		2601	?	?
Maxton Sand		2916 3000 3057	2965 3039 3071	49' 39' 14'
Greenbrier Formation		3205	3706	501'
MacCrady		3706		

Geologic supplementary log by Marshall S. Miller, May, 1972, for Columbia Gas Well No. 9643.

1800-1820	20"	Sandstone, white, fine to very fine grained, subrounded, well sorted, small amount of matrix material, over 90% quartz; considerable amount of dark carbonaceous shale present, could either be contamination or a thin interbed. Gamma-ray log indicates a shale bed present from 1808 to 1813.
1820-1870	50'	Sandstone, white, quartzose, fine to coarse grained, subangular to subround, poorly sorted, little or no matrix material, scattered dark rock fragments, over 95% quartz
1870-1880	10'	Sandstone, white to light gray, very fine to fine grained, subround, well sorted, scattered fine carbonaceous material, muscovite, about 90-95% quartz
1880-1890	10'	No samples
1890-1910	20'	Shale, red, green, and gray, slightly calcareous. A coal is also present in upper 10' which may be from a thin Pocahontas interval from 1880-1890.

cuttings do not agree with gammo-roy log below 1860 tt. Poschontus Formutian must be estimated from Gammaray log