

Operator: Columbia Gas Transmission Corp.  
 Farm: The Pittston Co.  
 Well No.: 9637  
 Elevation: 1702.39'  
 Location: Buchanan County

104

3100'N of 37°17'30"  
 3600'E of 82°15'00"

Total Depth: 4340'

Remarks: Elevation and location of well site with reference to:  
 coal geology along Middle Fork; and measured section No. 99;  
 indicate that well spudded in near the Dorchester horizon.  
 Formational boundaries determined from Schlumberger well logs, which  
 are measured 10 feet above ground level. Depths below are  
 uncorrected.

<u>Formation</u>	<u>Top</u>	<u>Bottom</u>	<u>Thickness</u>
<b>Pennsylvanian System</b>			
Post Lee Formation "in at surface"		670	670'
		Dorchester coal near surface	
		Hagy coal at 185' (185-187')	
		Splash Dam coal at 300' (297-300')	
		Kennedy coal at 570' (568-570')	
		McClure Sandstone 583-783	
Lee Formation	670	1834	1164'
		quartzose sand 670-780	110'
		quartzose sand 1066-1080	14'
		quartzose sand 1091-1138	47'
		quartzose sand 1147-1156	9'
		quartzose sand 1165-1252	87'
		quartzose sand 1368-1426	58'
		quartzose sand 1429-1513	84'
		War Creek coal horizon at 1540' (1538-1540')	
		quartzose sand 1698-1793	95'
		quartzose sand 1800-1834	34'
		total quartzose sand	538' <del>618'</del>
Pocahontas Formation	1834	1875	41'
<b>Mississippian System</b>			
Bluestone Formation	1875	2321	446'
Pride Shale	2128	2321	193'
Princeton Interval	2321	2451	
Little Stone Gap Member	2451	?	?

4195  
 1815  
 1066  
 447

Maxton Sands	2592		2607	15'
	2789		2806	19'
Greenbrier Formation	3074	<sup>2141</sup> 3551	<sup>41</sup> 3551	477'
MacCraday	3551	<u>1702</u> 1849	<u>2471</u> 1080	

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Geologic log supplement by Marshall S. Miller, May 1972.

1680-1705	25'	Sandstone, gray, fine to medium grained, subangular, poorly sorted, abundant clay-silt matrix material, green to black rocky fragments, micaceous, and abundant carbonaceous material, traces of feldspar, about 65% quartz
1705-1715	10'	Sandstone, white, quartzose, medium grained to granular, with scattered matrix material, scattered rock fragments, over 95% quartz
1715-1740	25'	Sandstone and coal; sandstone fine to medium grained, silty, micaceous with abundant coaly-micaceous laminations; coal, high luster blocky fracture. Coal estimated (1729-1730)
1740-1780	40'	Sandstone, white, quartzose, fine to coarse grained, subround to subangular, little to no matrix material, scattered dark rock fragments, appears loose and friable, 95 to 100% quartz
1780-1805	25'	Sandstone, light gray, very fine to medium grained, subangular to subround, poorly sorted, abundant clay-silt matrix material, scattered rock fragments, muscovite, about 80% quartz
1805-1810	5'	Shale, dark gray to black, silty, carbonaceous
1810-1811	1'	Coal, dull, bony, impure
1811-1840	29'	Sandstone, white, quartzose, fine to coarse grained, subround to subangular, small amount of matrix material, scattered rock fragments and micas, about 95% quartz, conglomeratic 1830-1840
1840-1875	35'	Shale, black, carbonaceous, micaceous, locally silty
1875-1890	15'	Shale, gray, greenish gray, pastel green, slightly calcareous, with minor amounts of fine grained, light green sandstone
1890		Shale, red, green, and gray, calcareous, and light green calcareous sandstone