

Operator: United Fuel Gas Co.

Farm: The Pittston Co.

Well No.: 9588

Elevation: 1566.34'

Location: Dickenson County

8800' W of 82° 15'

2850' N of 37° 12' 30"

Total Depth: 4485'

Remarks: Elevation and location of well site with reference to: coal geology along Russell Fork; and measured section 315 and 319; indicate that well spudded in about 93' above the Hagy coal, 196' above the Splash Dam coal, 260' above the Upper Banner coal, 300' above the Lower Banner coal, and 540' above the Kennedy coal.

Formational boundaries determined from geophysical well logs by Marshall S. Miller, 1971-72. (Interval 1920-2000 was observed by microscope) Depths are recorded 10 feet deep.

<u>Formation</u>	<u>Top</u>	<u>Bottom</u>	<u>Thickness</u>
Pennsylvanian System			
Post Lee Formation "in at surface"		605	605'
		Hagy coal horizon at 93' (Driller notes coal 91-93)	
		Splash Dam coal horizon at 196'	
		Upper Banner coal horizon at 260'	
		Lower Banner coal horizon at 300'	
		(Driller notes coal 327-329)	
		Kennedy coal horizon at 540'	
Lee Formation	605	1930	1325
Upper Member 605-670		quartzose sand 605-622	17'
		quartzose sand 632-640	8'
Middle Member 1068-1444		quartzose sand 1068-1141	73'
		quartzose sand 1340-1355	15'
		quartzose sand 1358-1444	96'
		War Creek coal horizon at 1520'	
		(Driller notes coal 1523-1526)	
		quartzose sand 1710-1800	90'
		quartzose sand 1839-1854	15'
		quartzose sand 1874-1930	63'

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Mississippian System

Bluestone Formation	1985 1937	2437 2707	500' 770'
Pride Shale	2196 2584?	2437 2707	241' 1231-
Princeton Interval	2437 2707	2481 2732-	44 -25'
Little Stone Gap Mem.	2481 2732	2437 -44	1500 ?
Maxon Sands	2843 2945 2997 3034 3062	2894 2970 3011 3042 3084	51' 25' 14' 8' 22'
Greenbrier Formation	3174	3765	591'
MacCraday	3765	3765 6156 3265 1566 2199	

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2437
1985
452

Supplemental log prepared April, 1972, by Marshall S. Miller.

- 1920-1930 10' Sandstone, white, medium to granular grained and conglomeratic, quartzose, over 95% quartz
- Pocahontas Formation (1930-1985)
- 1930-1940 10' Shale, dark gray to gray, silty, non-calcareous
- 1940-1950 10' No samples
- 1950-1960 10' Shale, dark gray to gray, silty, slightly calcareous, pebbly, soft
- 1960-1979 19' Shale, gray, micaceous, fissile, hard, brittle, locally carbonaceous
- 1979-1980 1' Coal, vitreous luster, irregular fracture
- 1980-1985 5' Shale, dark gray, carbonaceous
- Bluestone Formation (1985)
- 1985-1990 5' Siltstone, brownish gray, to greenish gray, highly calcareous
- 1990 Shale, red, green, gray, highly calcareous

Pocahontas Formation	1930	1985	55'
Mississippian System			
Bluestone Formation	1985	2437	452'
Pride Shale	2196	2437	241'
Princeton Sand	2437	2481	44'
Little Stone Gap Member	2481	2500?	?
Maxon Sands	2843	2894	51'
	2945	2970	25'
	2997	3011	14'
	3034	3042	8'
	3062	3084	22'
Greenbrier Formation	3174	3765	591'
MacCrady	3765		