# W. M. Ritter Lumber Company #1-V Serial No. 1461

Drilled by: United Carbon Company (United Producing

Company, Inc.)

2200' south 37015' 11,850' west 81055' Richlands Quadrangle, Garden District, Buchanan County, Virginia Location :

1619.2 Spirit Level, Ground Elevation:

# Sample Description (Cable Tool)

Depth		Sample Post Ipozon.
24 <u>~</u>	85	Sandstone, gray-white, glauconitic and micaceous; coal fragments, 60-64.
85-	100	Shale, gray; coal fragments, 97-100.
100-	155	Sandstone, gray-white, fine grain to very fine grain; coal fragments, 109-112, 125-127, 148-151; gray silty shale in sample interval 140-143.
155-	214	Shale, gray, silty.
214-	276	Siltstone, gray, medium grained.
276-1	283	Sandstone; gray white; very fine grained and coal fragments.
283-	322	Siltstone and shale, gray.
322=:	384	Sandstone, white, rounded fine to medium grained, free grains, sandstone slightly shaly,, 355-365.
384+	424	Shale, gray, silty; siltstone medium grained, 390-400.
424-	522	Sandstone, white, medium grained to coarse grained; coal fragments, 465-467; slightly shaly, 480-490.
522-	610	Shale, gray, micaceous, silty.
610-	625	Siltstone, gray, coarse grained; coal fragments 614-616.
625-	633	Sandstone, gray-white, very fine grained.
633=	645	Siltstone, gray, coarse grained; coal fragments 638-641.
645-	663	Shale, gray.
663=	788	Sandstone, gray-white, very fine grain to fine grained; coal fragments 696-698, 708-711, 726-730, 747-750; slightly shaly 718-724; porous sandstone clusters, 773-778.

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Depth	
788- 796	Shale, gray, silty.
796- 870	Sandstone, gray-white, fine grained to medium grained.
870- 886	Siltstone and shale, gray.
886+ 970	Sandstone, gray to white, fine grained to medium grained, free grains to clustered grains.
970- 976	Shale, black, pyritic; coal fragments, 974-976.
976-,985	Sandstone, white to gray, fine grained to medium grained; coal fragments, 983-985.
985 <b>-1020</b>	Sandstone, gray-white,/fine grained to fine grained, siltstone, gray, medium grained to coarse grained, slightly shaly.
1020-1080	Sandstone, white, fine grained to coarse grained; coal fragments, 1030-1033, 1063-1065.
1080-1084	Shale, dark gray.
1084-1125	Sandstone, gray-white, fine grained porous.
1125-1150	Shale, dark gray, silty.
1150-1210	Siltstone, gray, coarse grained.
1210-1213	Shale, dary gray, silty.
1213-1237	Siltstone, gray, medium grained.
1237-1270	Sandstone, gray-white, very fine grained, slightly shaly.
1270-1280	Shale, dark gray, silty.
1280-1303	Sandstone, gray-white, very fine grained.
1303-1308	Samples missing
1308=1400	Sandstone, white, fine grained to medium grained, angular to sub-angular.
1400-1420	Sandstone, white, medium grained and heavy concentration of coal fragments, coarse grained gray siltstone and coal fragments, 1414-1420.
1420-1443	Sandstone, gray, very fine grained, tight.
1443-1455	Shale, gray, silty; few coal fragments 1446-1448.
1455-1500	Sandstone, gray-white, fine grained to medium grained to coarse grained, clustered, tight.
1500-1518	Shale, gray, very silty.
1518-1533	Sandstone, gray-white, very fine grained to medium grained, tight.

	Depth	
•	1533-1540	Siltatone, gray, medium grained.
	1540-1544	Sandstone, gray-white, very fine grained.
	1544-1547	Siltstone, gray, medium grained.
	1547-1550	Coal
	1550-1560	Siltstone, gray, coarse grained; fragments, brown shale.
	1560-1592	Shale, dark gray, silty.
	1592-1600	Siltstone, gray-white, medium grained to coarse grained.
	1600-1624	Sandstone, white, fine grained to medium grained, clustered, glauconitic slight porosity; brown shale parting 1615-1617.
	1624-1636	Siltstone, gray, medium grained.
	1636-1675	Shale, dark gray.
	1675-1681	Siltstone, gray, medium grained.
	1681-1704	Sandstone, white, fine grained to medium grained, tight.
	1704-1709	Shale, gray.
	1709-1765	Sandstone, gray-white to white, very fine grained to medium grained; free grains to clustered, tight slightly shaly sections; 1746-48; 1756-58; 1765-67, coal fragments, 1760-62.
	1785-1800	Siltstone, gray-white, medium grained; shale gray and brownish red to red; limestone, brownish red, impure, dense.
	1800-1840	Sandstone, gray-white to white, fine grained to medium grained to coarse grained; fragments of shale, gray and brownish red, calcareous 1814-16.
	1840-1848	Shale, gray and green.
	1848-1860	Shale, red and green.
	1860-1893	Limestone, light brown to buff to gray-white, dense to fragmental, shale, red, green and brown.
	1893-1903	Samples missing.
	1903-1914	Siltstone, gray-white, medium grained; shale, gray with some red and green shale fragments.
	1914-1917	Sandstone, gray-white, very fine grained to fine grained.
	1917-1920	Siltstone, gray and green, medium grained.

Samples missing.

1920-1927

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1927-1934	Sandstone, gray-white, very fine grained to fine grained.
1934-1940	Siltstone, green and red, medium grained.
1940-1946	Sandstone, white to gray-white, fine grained, free grains.
1946-1974	Siltstone, gray, very fine grained; shale, gray with brownish tint.
1974-1996	Sandstone, gray-white, very fine grained to fine grained, free grains, tight.
1996-2006	Siltatone, gray, fine grained to medium grained.
2006-2030	Sandstone, white-gray, fine grained, tight with dark gray bituminous micaceous residue.
2030-2105	Shale, dark gray to brown, pyritic.
2105-2114	Shale, gray, red and green, silty.
2114-2178	Sandstone, greenish white to gray-white to white, very fine grained to fine grained, free grains; green, red and gray shale fragments, 2145-2152, 2160-2163.
2178-2190	Shale, gray.
2190-2219	Sandstone, gray-white, very fine grained to fine grained.
2219-2262	Shale, gray.
2262-2273	Limestone, light brown to buff, dense; shale, green, very silty with few fragments, red shale, 2270-2273.
2273-2290	Limestone, light brown to buff; siltstone, green, fine grained to coarse grained showing beginning of sandstone development, some isolated very fine grained fragments of gray-white sandstone.
2290	Last sample

### Completion Data

Commenced drilling: Aug Completed drilling: Jan

August 20, 1947 January 30, 1948

### Casing

16" 28 ' 6 " 10-3/4" 32# 1090' 11" 7 " 17# 2301'

7" x 8-5/8" casing packer at 2270' Perforated 7" casing from 2270-2301'

## Completion Data (contid.)

#### Fresh water

255 1 bailer per hour 1405 4 bailer - 24 hours

#### Pay Zones

Gas show 714 - 724!

" 1086

" 1405

" " 1550

Gas pay 2295 - 2301

107/10ths mercury 7" O.D. 17#

17,196,000 cubic feet

665# reservoir pressure - 20 hours

Shut in: February 1, 1948

J. B. Clarkson