Operator: Clinchfield Coal Co.

Farm: Isaac Cochran

Well No.: 205 Index No.: 12

Location: Dickenson County

5000' N of 37°10' 550' W of 82°20'

Elevation: 1356.3'

Remarks: Elevation and location of well site with reference to: coal correlations along McClure River Basin NE of Caney Creek; and measured sections 107, 112, and 80; indicate that well spudded in about 300' below the Splash Dam coal, about 200' below the upper

Banner coal and about 20' above the Kennedy coal.

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Formation	Top	Bottom	Thickness
Pennsylvanian System			
Post Lee Formation "in a	Kenne Aily c Raven	627 dy coal 30-31 *Noted by oal 150-151 coal 218-221 ne coal horizon at 380' (8	
Lee Formation	quartz	1540 cose sand 627–695 cose sand 754–764 cose sand 940–1030	913' 68' 10' 90'
	War Creek coal horizon at 1140'		
· •	quartz	cose sand 1383-1412 cose sand 1470-1540	29' 70'
	total q	uartzose sand	267'
Pocahontas Formation	''absent''		
Mississippain System			
Bluestone Formation	1540	2075	535'
Pride Shale	1820	2075	2551
Princeton Interval	2075	2255	1 80'

Little Stone Gap Mem.	2255	2282	27'
Maxon Sands	2405	2 42 8	231
	2602	2655	531
•	2678	2688	101
	2808	2 82 5	171
Greenbrier Formation	2875	3495	62.01
MacC rady	3495		

Operator: Clinchfield Coal Co.

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Well No.: 205

Location: Dickenson County

50.00' N of 37°10' 550' W of 82°20'

Elevation: 1356.3' Total Depth: 5367'

Geologic log supplement by Marshall S. Miller, Jan., 1972. Previous geologic log by J. M. Wilson, Nov., 1962. Except for the description below, the geologic log of Wilson's is referred to for formational boundaries.

Depth	Thickness	Description
30- 31	1'	Coal, noted by driller but not visible in cuttings, probably due to large sample interval (20-50). All other coal seams noted by driller in this well were confirmed in the cuttings.
31-150	119'	Sandstone, light gray, fine to medium grained, subangular to subround, moderately to poorly sorted, with consistent amount of muscovite, dark rounded rock fragments, clay-silt matrix material (kaolinite verified by X-ray) and small amount of feldspar, (plagioclase, possibly 5%, verified by X-ray), scattered carbonaceous material present, about 80% quartz, 5% feldspar, 5% rock and accessory mineral fragments, 10% matrix material
627-677	501	Sandstone, white, quartzose, fine to medium grained, occasionally coarse grained, subround to subangular, moderately sorted, scattered dark rock fragments, little to no matrix material, 90% quartz, 5% matrix, 5% rock fragments
677-695	18'	Sandstone, white, quartzose, coarse grained to granular and conglomeratic, poorly sorted with small amount of calcareous matrix material, secondary quartz overgrowths are visible, over 95% quartz (pure quartz sand verified by X-ray)

754-764	10'	Sandstone, white, quartzose, fine to coarse grained to granular and conglomeratic, subangular to round, poorly sorted, little or no matrix material, over 95% quartz, pure quartz sand verified by X-ray
940-1030	90'	Sandstone, white, quartzose, medium grained to granular, rounded to subangular, poorly sorted, scattered dark rock fragments, small amount of matrix material, rare muscovite, over 90% quartz (quartz sand verified by X-ray), basal 20' is conglomeratic
1383-1412	29'	Sandstone, white, quartzose, fine grained to granular, subround to subangular, poorly sorted, with rare rock fragments and matrix material
1412-1422	10'	Siltstone, as described by Wilson, also coal present in cuttings, driller notes coal 1420-1421
1422-1440	181	Shale, dark gray, silty, finely micaceous
1440-1470	301	Coal, mostly, although doubtful if 30' of coal is present; coal has high vitreous luster, blocky fracture, generally pure
1470-1502	40'	Sandstone, white, quartzose, medium to coarse grained, subround, moderately sorted, small amount of matrix material, rare dark rock fragments, over 95% quartz
1502-1540	38'	Sandstone, as in 1470-1502, and conglomeratic
1540-1621	81'	Shale, gray to brownish gray to brown, calcareous, generally silty
1621		Shale, red, green and gray, calcareous