Buchanan County

Clinchfield Coal Co.

Big Sandy Fuel Corp. Well No. 213

VDMR Well W-331

Index No. 7

Elevation: 16201

Remarks: Elevation and location of well indicate well located 65' below Dorchester Coal, 115' above the Hagy coal, 215' above the Splash Dam Coal and 465' above the Kennedy Coal. Referred to: geology on Hunts Creek and measured sections 82, 83, and 97.

Correlations by Marshall Miller, 1970-74, VDMR.

<u>Formation</u> <u>T</u>	op	Во	ttom	Thickness	
Pennsylvanian System					
Post Lee Formation	0	unidentified coal Hagy coal horize Splash Dam coal Kennedy coal ho	on at 115' (coal in l horizon at 215' (coal in	664' n cuttings 112- n cuttings 230-	
Lee Formation	664	War Creek coal	1818 in interval 1495	1154 ' -1515	
Upper Member (664-729) 65 ¹ Middle Member (1049-1420) 371 ¹		quartzose sand conglomeratic	664- 729 713- 729	65¹ 16¹	
(1049-1420) 371		conglomeratic conglomeratic quartzose sand quartzose sand	1063-1073 1095-1105 1130-1138 1145-1158 1174-1180 1305-1330	149 [†] 10 [†] 10 [†] 4 8 [†] 13 [†] 6 [†] 25 [†] 95 [†] 70 [†]	71

Lower	Memb	er
(1712-	1818)	1061

		quartzose sand 1712-1759	47¹ 40¹
		conglomeratic 1719-1759 quartzose sand 1769-1818	49 ^t
		NOTE: The second	49¹
		conglomeratic 1769-1818	49
		total quartzose sand	430 ^t
		total quartzose sand total conglomerate	2061
		total conglomerate	200
Mississippian System		*	
Bluestone Formation	1818	2251	4331
Pride Shale	2095	2251	156¹
Princeton Sandstone	2251	2418	167'
Hinton Formation			
Little Stone Gap	2 418	2432	141
Greenbrier Formation	3017	3504	4871
Mccrady	3504		

Buchanan County Clinchfield Coal Co. Big Sandy Fuel Well #213 VDMR W-331 Index No. 7

Elevation: 1620

Remarks: Elevation and location of well indicate well located approximately 65[†] below Dorchester Coal.

Geologic summary by Marshall S. Miller to name and identify coal beds and Lee quartzose sands. All other descriptions are referred to R. J. Voigtsberger's geologic log.

Depth	Thickness	Description
60- 61	11	Coal, good show, 1/2" blocks of silty coal with good blocky fracture, low luster. The Norton Coal? Depth determined from drillers log.
230- 231	11	Coal, dull, silty, bony, reduced to a soft powder in cuttings; the Hagy coal
664- 729	65 ¹	Sandstone, white, quartzose, medium to coarse grained, subangular to subround, occasionally interstitially silty, composed of almost 100% quartz; occasional coaly material is only accessory. Conglomeratic (713-729)
1049-1138	89 ^t	Sandstone, white, quartzose, fine to coarse grained to granule, subround to subangular, poorly sorted, considerable shaly "contamination" present in cuttings. Conglomeratic (1063-1073) (1095-1105) (1130-1138) X-ray of intervals (1085-1089) and (1105-1120) indicate a quartzose sand, no traces of feldspar, and minor traces of illite, siderite and muscovite
1138-1190	521	Sandstone, white, quartzose, medium to coarse grained, subround to subangular, occasionally coarse grained, moderately to poorly sorted, occasionally interstitially silty, conglomeratic (1145-1158) (1174-1180)

C. J.

		The interval below is a light gray, very fine grained "dirty" micaceous sandstone. The change is very striking.
1305-1330	251	Sandstone, white, quartzose, fine to coarse grained, subround to subangular but mostly subrounded, moderately to poorly sorted, interstitially silty
1350-1420	701	Sandstone, white, quartzose, medium to very coarse grained, granule, subround to subangular, poorly sorted, appears loose, with no visible matrix material, conglomeratic throughout
1420-1445	25'	Sandstone, white, quartzose, fine to coarse grained, subround, moderately sorted, interstitially silty
1712-1719	71	Sandstone, white, quartzose, medium grained, subround, well sorted
1719-1729	10¹	Sandstone, white, quartzose, fine to coarse grained, subround to subangular, poorly sorted, conglomeratic
1729-1759	30 ^t	Sandstone, white, quartzose, coarse grained, graunule, conglomeratic, round to angular, poorly sorted, pure quartz with no matrix material, some bluish and white chert occasionally present
1759-1769	101	Siltstone, dark gray, micaceous, and sandstone, fine grained, micaceous, with silt and dark argillaceous material
1769-1818	49¹	Sandstone, white, quartzose, medium to coarse grained, granule, and conglomeratic (considerable contamination from above), subangular, poorly sorted
1818-		Red, pastel green, and gray, slightly calcareous shales