

Operator: Clinchfield Coal Company
 Farm: Virginia Coal and Iron Company
 Well No.: 216
 Index No.: 17

Location: Wise County
 7050' N of 37°00'
 11,650' E of 82°40'

Elevation: 2372.3'

Total Depth: 4056'

Remarks: Elevation and location of well with reference to coal geology along Rocky Fork Creek, and core 1 1/2 miles SE, indicate well located 25 to 50' above the Clintwood coal, and about 900' above the Kennedy coal.

<u>Formation</u>	<u>Top</u>	<u>Bottom</u>	<u>Thickness</u>
Pennsylvanian System			
Post Lee Formation "in at surface"		919	919'
		Gladeville sand interval 200-228	28'
		Norton coal 228-232	
		Hagy? coal 464-468	
		Kennedy coal 915-916	
Lee Formation	919	2271	1352
		quartzose sand 919-965	46'
		quartzose sand 970-1055	85'
		quartzose sand 1427-1475	48'
		quartzose sand 1541-1616	75'
		quartzose sand 1735-1820	85'
		War Creek, absent	
		quartzose sand 1879-1974	95'
		quartzose sand 2040-2078	38'
		quartzose sand 2083-2102	14'
		quartzose sand 2111-2271	160'
		total quartzose sand	646'
Pocahontas Formation	absent		

Correlations by Marshall Miller, 1970-74, VDMR.

Mississippian System

Bluestone Formation	2271	2678	407'
Pride Shale	2447	2678	231'
Princeton Interval	2678	2831	153'
Little Stone Gap Mem.	2831	2881	50'
Stony Gap Sand	3070	3198	128'
Greenbrier Formation	3471	3975	504'
Maccrady	3975		

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 Location: Wise County
 7050' ~~W.~~^{N.} of 37°00'
 11,650' E. of 82°40'
 Elevation: 2372.3'
 Total Depth: 4056'
 Drilling Commenced: 9/28/59
 Well Completed: 5/15/60
 Result: Gas Well

Geologic Log
 Samples studied and
 described by:
 John M. Wilson
 Virginia Division of
 Mineral Resources
 May, 1962

Geologic Log

<u>Depth</u>	<u>Interval</u>	<u>Description</u>
<u>Pennsylvanian System</u> (0-2271)		
<u>Pottsville Group</u> (0-2271)		
<u>Wise formation</u> (0-256)		
0 - 50	50	No samples
50 - 99	49	Siltstone, light gray, hard, brittle, no apparent bedding to poorly fissile, argillaceous, slightly calcareous, with: common mica, rare pyrite, and possible minor stringers of Sandstone.
99 - 131	32	Sandstone, light gray to light greenish-gray, fine-to medium-grained, well sorted, subangular to subrounded, siliceous, slightly calcareous, with: common chlorite, and common mica. Nonporous to slightly porous.
131 - 200	69	Siltstone, light to medium gray, moderately hard, brittle, no apparent bedding to poorly fissile, argillaceous, slightly calcareous, with: common mica, and rare pyrite.
200		<u>Blair Coal Horizon</u>
200 - 228	28	Sandstone, clear to light green, fine to medium-grained, well sorted, subangular, interstitially silty and siliceous, calcareous, with: common mica, common chlorite, and abundant coal lamanae and partings. Non-porous to slightly porous.

228		<u>Lyons Coal</u> (228-232)
228 - 232	4	Coal, in part silty and impure, blocky fracture (Interpreted depth and thickness)
232 - 253	21	Sandstone, as in 200 to 228.
253		<u>Dorchester Coal</u> (253-256)
253 - 256	3	Coal in part silty and impure.
<u>Gladeville Sandstone</u> (256-345)		
256 - 266	10	Sandstone, clear to light gray, very fine-to medium-grained, medium sorted, sub-angular to subrounded, interstitially silty, siliceous, slightly calcareous, with: common mica, common chlorite, and abundant carbonaceous streaks, Non-porous to slightly porous.
266 - 345	79	Sandstone, clear to white, medium-grained, well sorted, friable, subangular to subrounded, interstitially silty, siliceous and calcareous, with: common chlorite, common mica, and common silty-carbonaceous streaks and partings. Nonporous to slightly porous.
<u>Norton formation</u> (345-1541)		
345 - 350	5	Siltstone, dark gray to black, hard, tough, no apparent bedding to fair fissility, argillaceous, slightly calcareous, with: common coal laminae and partings, common mica, and rare pyrite.
350 - 410	60	Siltstone, medium to dark gray, moderately hard, brittle, no apparent bedding to poorly fissility, argillaceous, with: common mica, and rare carbonaceous material.
410 - 464	55	Sandstone, white to clear, fine-to coarse-grained, poorly sorted, subangular to subrounded, moderately cemented, calcareous, with: chlorite, common mica (biotite and muscovite). Slightly porous.
464 - 468	4	Coal, in part silty (Interpreted depth) and thickness).

468 - 487	22	Sandstone, conglomeratic, clear to light gray, milky white, fine-to very coarse-grained, common granules, poorly sorted, moderately cemented, subangular to sub-rounded, siliceous, slightly calcareous, with: common chlorite, and common mica. Slightly porous to porous.
487 - 489	2	Siltstone, red, maroon-drab, hard, brittle, argillaceous and ferruginous, with: rare mica.
489 - 515	26	Sandstone, conglomeratic, as in 468 to 487.
515 - 597	82	Siltstone, medium to dark gray, hard, tough, argillaceous, slightly calcareous, with: common mica.
597		<u>Upper Banner Coal Horizon</u>
597 - 616	19	Sandstone, white to light gray, fine-to medium-grained, well sorted, subangular, moderately cemented, siliceous and calcareous, with: common chlorite, and common mica. Nonporous to slightly porous.
616 - 711	95	Interbedded; Sandstone, light to medium gray, very fine-to medium-grained, medium sorted, subangular, interstitially silty, siliceous, slightly calcareous, with: common mica (biotite and muscovite), with; Siltstone, dark gray, moderately hard, brittle, no apparent bedding to poorly fissile, argillaceous, slightly calcareous, with: common mica.
750		<u>Lower Banner Coal Horizon</u>
711 - 755	44	Siltstone, dark gray to black, moderately soft, flaky, no apparent bedding to fair fissility, argillaceous, with: abundant coal laminae and partings, and minor stringers of Sandstone, as in 616-711.

755 - 841	86	Shale, dark brown to black, moderately hard, brittle, fair to good fissility, argillaceous, slightly calcareous, with: common mica, rare coal laminae.
841 - 880	39	Shale, as in 755 to 841, with stringers of red Siltstone, and Sandstone.
880 - 919	39	Shale, black, moderately hard, tough, good fissility, argillaceous, with: rare pyrite, and abundant mica.
919 - 965	46	Sandstone, white to orange, fine-grained, well sorted, subangular, moderately cemented, siliceous, slightly calcareous, with: common mica, and minor stringers of Siltstone.
965 - 970	5	Siltstone, dark gray, moderately hard, brittle, argillaceous, with common mica.
970 - 1005	35	Sandstone, white to orange, medium-to coarse-grained, well sorted, subangular, moderately cemented, interstitially silty, siliceous and calcareous, with: common mica, and minor stringers of Siltstone, as in 965 to 970. Nonporous to slightly porous.
1005 - 1040	35	Sandstone, white, coarse-to very coarse-grained, well sorted, subangular, moderately cemented, siliceous, slightly calcareous, with: common mica.
1040 - 1055	15	Sandstone, white to orange, medium-to coarse-grained, well sorted, subangular, well cemented, siliceous, calcareous, with: common mica. Nonporous to slightly porous.
1055 - 1087	32	Siltstone, grayish-brown to reddish-brown, moderately soft, flaky, locally poorly fissile, with: common mica, and stringers of Sandstone, as in 1040 to 1055.
1087 - 1090	3	Coal (Interpreted depth and thickness).
1090 - 1093	3	Siltstone, as in 1055 to 1087.

1093 - 1109	16	Sandstone, white to light gray, fine-to medium-grained, well sorted, subangular, interstitially silty, siliceous, with: common mica, and rare pyrite. Nonporous to slightly porous.
1190		<u>Raven Coal Horizon</u>
1109 - 1195	86	Siltstone, grayish-brown, with rare red, moderately soft, flaky, argillaceous, with: common mica, and minor stringers of Sandstone, as in 1090 to 1093.
1195 - 1259	64	Sandstone, white to light beige, medium-grained, well sorted, angular to subangular, siliceous, with: common mica. Nonporous to slightly porous.
1259 - 1427	168	Siltstone, brownish-gray to black, moderately soft, locally finely sandy and siliceous, argillaceous, with: common mica, and minor stringers of red siltstone.
1427 - 1453	26	Sandstone, white to pink, medium-to coarse-grained, medium to well sorted, subangular, interstitially silty, silty, slightly calcareous, with: common mica, Nonporous to slightly porous.
1453 - 1475	22	Sandstone, conglomeratic, white, very fine-to very coarse-grained, with common granules, poorly sorted, angular to subangular, siliceous, slightly calcareous, with: common mica, and rare carbonaceous streaks and partings. Slightly porous.
1475 - 1541	66	Siltstone, brown to black, moderately hard, brittle, locally finely sandy and siliceous, argillaceous, with: rare mica, and common red-silty micaceous partings.
<u>Lee formation (1541-2271)</u>		
1541 - 1578	37	Sandstone, clear to light gray, fine-to medium-grained, well sorted, subangular, siliceous, slightly calcareous, with: rare mica.

k1578 - 1616	38	Sandstone, clear to white, fine-to coarse-grained, poorly sorted, angular to sub-angular, calcareous, with: common mica. Slightly porous to porous.
1616 - 1626	10	Sandstone, white to orange, medium-grained, well sorted, subangular to subrounded, siliceous, slightly calcareous, with: rare mica, and rare partings of red siltstone. Slightly porous.
1626 - 1652	26	Siltstone, dark gray, hard, tough, argillaceous, with: abundant mica (biotite and muscovite).
1652 - 1720	68	Sandstone, clear to white, medium-grained, well sorted, subangular to subrounded, interstitially silty and siliceous, very slightly calcareous, with: minor stringers of Siltstone, Nonporous to slightly porous.
1720 - 1775	55	Sandstone, clear to white, medium-grained, well sorted, subangular, siliceous, slightly calcareous, with: common mica.
1775 - 1800	25	Sandstone, dirty white to light brown, fine-to medium-grained, well sorted, angular to subangular, siliceous, slightly calcareous, with: rare mica. Nonporous to slightly porous.
1800 - 1817	17	Sandstone, as in 1775 to 1800, with stringers of Siltstone, light to dark gray, moderately hard, tough, argillaceous.
1817 - 1825	8	Siltstone, dark gray to brown, hard, tough, argillaceous, with: common mica, and minor stringers of red Siltstone.
1825 - 1831	6	Coal, in part silty and micaceous (Interpreted depth and thickness).
1831 - 1834	3	Siltstone, reddish-brown, dark gray, hard, brittle, locally finely sandy and siliceous, argillaceous and ferruginous, with: common mica.
1834 - 1836	2	Coal (Interpreted depth and thickness),
1836 - 1842	6	Siltstone, as in 1831 to 1834.
1842 - 1844	2	Coal (Interpreted depth and thickness).

1844 - 1858	14	Siltstone, dark gray to black, moderately hard, brittle, no apparent bedding to poorly fissile, argillaceous, with: rare mica, common carbonaceous streaks, and minor stringers of red Siltstone.
1858 - 1879	21	Siltstone, gray, brown, black, hard, tough, argillaceous, slightly calcareous, with: abundant mica, and common coal laminae and partings.
1879 - 1882	3	Sandstone, white to clear, orange, fine-grained, well sorted, subangular, siliceous, slightly calcareous. Nonporous.
1882 - 1899	17	Sandstone, conglomeratic, clear to milky white, fine-to very coarse-grained, with common granules, poorly sorted, angular to subangular, siliceous, slightly calcareous. Nonporous to slightly porous.
1899 - 1948	49	Sandstone, clear, medium-grained, well sorted, subangular, siliceous, slightly calcareous, with: common mica. Nonporous to slightly porous.
1948 - 1974	26	Sandstone, white, orange, medium-to coarse-grained, well sorted, angular to subangular, siliceous, calcareous, with: common mica. Nonporous to slightly porous.
1974 - 1998	24	Siltstone, brown to black, hard, tough, argillaceous, with: common mica, common carbonaceous laminae, and minor stringers of Siltstone, red, hard, tough, argillaceous, with: common mica.
1998 - 2004	6	Coal, black, soft, blocky fracture.
2004 - 2040	36	Sandstone, white to orange, medium-to coarse-grained, well sorted, subangular, siliceous, slightly calcareous, with: rare mica, and common coal fragments.
2040 - 2072	32	Sandstone, clear, medium-grained, well sorted, subangular, interstitially silty and siliceous, calcareous, with: common mica.

2072 - 2074	2	Coal (Interpreted depth and thickness)
2074 - 2078	4	Sandstone, as in 2040 to 2072.
2078 - 2107	29	Sandstone, white, pink, orange, fine-to medium-grained, well sorted, subangular to subrounded, calcareous, with: common mica, and rare coal partings. Nonporous.
2107 - 2140	33	Sandstone, clear to white, medium-grained, well sorted, subangular to subrounded, siliceous, slightly calcareous, with: common mica. Nonporous to slightly porous.
2140 - 2152	12	Sandstone, clear, medium-grained, well sorted, subangular, interstitially silty and siliceous, calcareous. Slightly porous to porous.
2152 - 2156	4	No samples
2156 - 2207	51	Sandstone, clear to pinkish-brown, fine-to medium-grained, well sorted, subangular to subrounded, siliceous, slightly calcareous, with: common mica, stringers of Siltstone, red, hard, common mica, stringers of Siltstone, black, hard, carbonaceous, and rare Coal fragments. Nonporous to slightly porous.
2207 - 2211	4	No samples
2211 - 2250	39	Sandstone, clear to white, fine-to medium-grained, well sorted, subangular to subrounded, siliceous, calcareous, with: common mica. Nonporous to slightly porous.
2250 - 2271	21	Sandstone, as in 2211 to 2250, with common coal streaks and partings.

Mississippian System (2271-T. D.)
Pennington Group (2271-3271)
Bluestone formation (2271-2678)

2271 - 2291	20	Siltstone, medium gray, with reddish-brown, hard, tough, no apparent bedding to poorly fissile, siliceous, slightly calcareous, with: common mica.
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2291 - 2303	12	Siltstone, dark gray, with red and light green, moderately hard, tough, locally poorly fissile, argillaceous, with: common mica, common pyrite, and rare coal streaks and partings.
2303 - 2310	7	Sandstone, white to orange, fine-grained, well sorted, subangular to subrounded, interstitially silty and siliceous, slightly calcareous, with: rare mica, and minor stringers of Siltstone, red, gray, green.
2310 - 2316	6	Sandstone, clear to white, fine-to medium-grained, well sorted, subangular to subrounded, siliceous, slightly calcareous, with: rare pyrite. Nonporous.
2316 - 2321	5	No samples
2321 - 2324	3	Sandstone, as in 2310 to 2316.
2324 - 2334	10	Siltstone, red, gray, green, moderately hard, brittle, argillaceous, slightly calcareous, with: rare mica, and common pyrite.
2334 - 2357	23	Siltstone, green, red, moderately hard, brittle, locally poorly fissile, argillaceous, slightly calcareous, with: rare pyrite.
2357 - 2362	5	Siltstone, variegated, red, green, light to medium gray, moderately hard, brittle, locally finely sandy, argillaceous, slightly calcareous, with: rare pyrite, and minor stringers of Sandstone, clear to white, fine-to medium-grained, well sorted, subangular to subrounded, calcareous, with: rare pyrite. Nonporous to slightly porous.
2362 - 2375	13	Siltstone, as in 2357 to 2362, with stringers of Siltstone, beige, soft, with: common pyrite.
2375 - 2383	8	No samples
2383 - 2411	28	Lithologies, as in 2362 to 2375, very calcareous.
2411 - 2420	9	Siltstone, green, hard, flaky, locally poorly fissile, argillaceous, slightly calcareous.

2420 - 2443	23	Siltstone, medium gray, moderately hard, brittle, no apparent bedding to poorly fissile, argillaceous, slightly calcareous.
2443 - 2447	4	Interbedded; Siltstone, as in 2420 to 2443, with; Sandstone, clear to white, fine-to medium-grained, well sorted, subangular to subrounded, interstitially silty and siliceous, calcareous, with: rare pyrite, and common fragments of Limestone. Nonporous to slightly porous.
2447 - 2481	34	Siltstone, dark gray, hard, brittle, argillaceous, with: common carbonaceous material, and stringers of Sandstone, clear to white, medium-grained, well sorted, subangular to subrounded, calcareous, with: common pyrite.
2481 - 2485	4	Coal, in part silty and impure (Interpreted depth and thickness).
2485 - 2531	46	Siltstone, dark gray, hard, tough, locally poorly fissile, argillaceous, with: common coal laminae.
2531 - 2540	9	Siltstone, as in 2485 to 2531, with minor stringers of Limestone.
2540 - 2580	40	Siltstone, as in 2485 to 2531.
2580 - 2678	98	Siltstone, black, moderately hard, tough, no apparent bedding to poorly fissile, argillaceous, with: rare pyrite, and common carbonaceous material.
<u>Princeton sandstone (2678 - 2831)</u>		
2678 - 2699	21	Sandstone, clear to light gray, medium-grained, well sorted, subangular to subrounded, calcareous, with: common mica. Nonporous to slightly porous.
2699 - 2794	95	Siltstone, as in 2580 to 2678.
2794 - 2831	37	Sandstone, clear, medium-to coarse-grained, medium sorted, subangular, interstitially silty, slightly calcareous, with: common mica, and rare pyrite. Nonporous to slightly porous.

Hinton formation (2831-3271)

2831 - 2853	22	Siltstone, dark gray, moderately hard, brittle, locally finely sandy and siliceous, argillaceous, slightly calcareous, with: stringers of Limestone, dolomitic, dark gray.
2853 - 2881	28	Siltstone, variegated, dark gray, red, green, moderately hard, tough, argillaceous, slightly calcareous, with: stringers of Limestone, dolomitic, light gray.
2881 - 2900	19	Siltstone, red, reddish-brown, hard, tough, locally poorly fissile, ferruginous, calcareous, with: common mica.
2900 - 2918	18	Siltstone, variegated, as in 2853 to 2881.
2918 - 2928	10	Sandstone, white to light green, medium-grained, well sorted, subangular, interstitially silty and siliceous, calcareous, with: rare pyrite. Nonporous to slightly porous.
2928 - 3023	95	Siltstone, variegated, as in 2853 to 2881.
3023 - 3051	28	Sandstone, white to clear, fine-to medium-grained, well sorted, subrounded, interstitially silty and siliceous, calcareous, with: rare pyrite, and minor stringers of Siltstone, variegated, red, gray, green, moderately soft, brittle, argillaceous.
3051 - 3070	19	Siltstone, variegated, red, dark gray, green, moderately hard, brittle, locally poorly fissile, argillaceous, slightly calcareous.

Stony Gap sandstone member of the Hinton formation (3070-3271)

3070 - 3115	45	Sandstone, clear, light green, orange, fine-grained, well sorted, subangular to subrounded, interstitially silty and siliceous, slightly calcareous. Slightly porous.
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3115 - 3133	18	Sandstone, as in 3070 to 3115, with stringers of Siltstone, variegated, red, green, gray, moderately soft, argillaceous.
3133 - 3152	19	Sandstone, as in 3070 to 3115.
3152 - 3156	4	Coal (Interpreted depth and thickness)
3156 - 3160	4	Sandstone, as in 3070 to 3115.
3160 - 3175	15	Interbedded; Sandstone, as in 3070 to 3115, with; Siltstone, red, gray, moderately hard, flaky, argillaceous, with: common mica.
3175 - 3198	23	Sandstone, clear, light green, fine-grained, well sorted, subangular to subrounded, interstitially silty and siliceous, slightly calcareous. Slightly porous to porous.
3198 - 3224	26	Siltstone, variegated, red, green, dark gray, hard, tough, argillaceous, slightly calcareous, with: rare coal laminae.
3224 - 3247	23	Siltstone, as in 3198 to 3224, with minor stringers of Sandstone.
3247 - 3249	2	Coal (Interpreted depth and thickness)
3249 - 3255	6	Lithologies as in 3224 to 3247.
3255 - 3260	5	Sandstone, clear to orange, fine-grained, well sorted, subangular, interstitially silty, and siliceous, slightly calcareous, Non-porous to slightly porous.
3260 - 3271	11	Sandstone, light gray, medium-to coarse-grained, medium sorted, subangular to subrounded, siliceous, calcareous. Non-porous to slightly porous.

Bluefield formation (3271-3471)

3271 - 3321	50	Siltstone, bluish-gray, with red, moderately hard, brittle, locally finely sandy and siliceous, argillaceous, with: common mica, common pyrite, and stringers of Sandstone, light gray, medium-to coarse-grained, medium sorted, subangular to subrounded, siliceous, slightly calcareous.
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3321 - 3369	48	Limestone, dolomitic, moderately hard, oolitic, common to abundant fossil fragments, microcrystalline.
3369 - 3471	102	Siltstone, dark gray to black, hard, tough, no apparent bedding to poorly fissile, argillaceous, calcareous, with: common pyrite, rare fossil fragments, and common carbonaceous laminae and partings.
<u>Greenbriar limestone (3471-3975)</u>		
3471 - 3536	65	Limestone, dolomitic, light grayish-brown, hard, oolitic, common fossil fragments, microcrystalline, with: common pyrite, and common calcite.
3536 - 3546	10	Limestone, as in 3471 to 3536, silty.
3640 - 3660	20	Limestone, light brown, light grayish-brown, hard, oolitic, unfossiliferous, microcrystalline, with: rare calcite.
3660 - 3739	79	Limestone, light to dark brown, with grayish-brown, moderately hard, common fossil fragments, microcrystalline, with: common calcite, and common pyrite.
3739 - 3777	38	Limestone, dolomitic, light brown, moderately hard, oolitic, unfossiliferous, microcrystalline, with: rare calcite.
3777 - 3886	109	Limestone, light grayish-brown, moderately hard, oolitic, common fossil fragments, microcrystalline, with: rare calcite.
3886 - 3888	2	No samples
3888 - 3894	6	Limestone, dolomitic, light grayish-brown, hard, oolitic, rare fossil fragments, cryptocrystalline, with: rare calcite.
3894 - 3896	2	No samples
3896 - 3945	49	Limestone, light gray, moderately hard, oolitic, common fossil fragments, microcrystalline, with: rare calcite.

3945 - 3950	5	Limestone, as in 3896 to 3945, silty.
3950 - 3975	25	Limestone, light to dark brown, medium to dark gray, moderately hard, unfossiliferous, microcrystalline, with: rare calcite, and common chert.
Maccrady formation (3975 - TD)		
3975 - 3983	8	Siltstone, light to dark gray, with rare red, moderately hard, brittle, locally finely sandy and siliceous, argillaceous, slightly calcareous, with: common mica (biotite and muscovite).
3983 - 3993	10	No samples
3993 - 4038	45	Siltstone, as in 3975 to 3983.
4038 - 4045	7	Siltstone, reddish-brown, light to medium green, moderately soft, flaky, locally finely sandy and siliceous, argillaceous, with: common mica.
4045 - 4050	5	No samples.
4050 - 4055		Siltstone, as in 4038 to 4045.

Summary

		Wise formation (0 - 256')	Blair Coal Horizon (200')
			Lyons Coal (228'-232')
			Dorchester Coal (253'-256')
Pennsylvanian System (0 - 2271')	Pottsville Group (0' - 2271')	Gladeville sandstone (256'-345')	
		Norton formation (345'-1541')	Upper Banner Coal horizon (597')
			Lower Banner Coal horizon (750'I)
			Raven Coal horizon (1190')
		Lee formation (1541'- 2271)	
		Bluestone formation (2271' - 2678')	
	Pennington Group (2271' - 3271')	Princeton sandstone (2678' - 2831')	
Missippian System (2271' - T. D.)		Hinton formation (2831' - 3271')	Stony Gap sandstone member (3070' - 3271')
		Bluefield formation (3271'- 3471')	
		Greenbriar limestone (3471' - 3975')	
		Maccrady formation (3975' - T. D.)	

GEOLOGIC SUMMARY

Pennsylvanian System

Wise Formation	in	50
	bottom	256 (?)
Gladeville Sandstone	top	256 (?)
	bottom	345
Norton Formation	top	345
	bottom	1541
Lee Formation	top	1541
	bottom	2271

Mississippian System

Bluestone Formation	top	2271
	bottom	2678
Princeton Sandstone	top	2678
	bottom	2831
Hinton Formation	top	2831
	bottom	3271
Stony Gap Sandstone	top	3070
	bottom	3271
Bluefield Formation	top	3271
	bottom	3471
Greenbrier Limestone	top	3471
	bottom	3975
Maccrady Formation	top	3975
		(sampled depth 4055)

Correlations by: J. M. Wilson, and Keith Robinson

September 1963