


Pickens and Guthrie No. 14

Scott District, Boone County, W. Va.

JAN 4 1954


By Earl Ward, 527 Fifth Avenue, New York, N. Y.

Located 0.9 mi. S. of 38° 10' Lat. and 3 1/4 mi. W. of 81° 48' Long.

Madison quadrangle - EC.

Elevation 848.68'.

Permit - Boo. - 881

Section based on samples from 700 to 1998; Examined by Russell R. Flowers.

Top	Bottom	Thickness	
700	761	61	Sandstone, very light gray, fine grained
761	766	5	Sandstone, very light gray, medium to very coarse grained, some coal
766	1049	283	Not described
1049	1061	12	Sandstone, very light gray, fine to medium grained, subrounded to rounded with many secondary crystal facets
MAUCH CHUNK FORMATION, 239 Feet.			
1061	1109	48	Sandstone, very light gray, very fine grained, well sorted, clean, quartzose
1109	1115	6	Shale, dark greenish gray to medium dark and dark gray, silty in part, calcareous, dolomitic in part
1115	1124	9	Shale, grayish brown to dusky brown, some greenish gray to dark gray; small amount of light olive gray, limestone at the top
1124	1150	26	Limestone, light olive gray to greenish gray; shale, grayish red to grayish brown, dark greenish gray to medium dark gray and dark gray; a large amount of samples are pyritic; some grayish red shale and limestone
1150	1165	15	Siltstone and shale, medium to medium dark gray and greenish gray, some grayish brown to brownish gray
1165	1183	18	Sandstone (very fine to siltstone), light to medium gray and greenish gray, calcareous, chloritic, contains mica and kaolinite
1183	1192	9	Shale, brownish black, calcareous and dolomitic; a moderate amount of grayish brown shale
1192	1219	27	Not described
1219	1232	13	Sandstone, white to very light gray, some greenish gray, very fine grained, quartzose; a very large amount of dark gray to dark greenish gray and olive gray soft shale
1232	1255	23	Not described
1255	1298	43	Limestone, brownish black to dark gray and grayish black, very shaly, very highly fossiliferous, crinoidal (Little Lime)

1298	1300	2	Shale, dark gray, (Pencil Cave) GREENBRIER LIMESTONE, 210 Feet.
1300	1308	8	Limestone, light olive gray to brownish gray, highly fossiliferous, oolitic in the upper part; light olive gray to olive gray, very shaly, non oolitic limestone at the bottom; Trace of chert
1308	1323	15	Limestone, brownish black to dark yellowish brown, some dark gray in the lower part, very shaly with some calcareous shale, fossiliferous (some crinoid stems), trace of chert, somewhat silty
1323	1352	29	Limestone, olive gray to dark yellowish brown, shaly to very shaly, fossiliferous, some fine to medium sand, somewhat pyritic
1352	1375	23	Limestone, dark yellowish brown to dusky yellowish brown, shaly, somewhat silty
1375	1410	35	Limestone, pale yellowish brown, oolitic, many of the oolites are indistinct, silty, somewhat sandy (very fine to medium grained, rounded)
1410	1413	3	Limestone, light olive gray, to greenish gray, highly dolomitic, very shaly, very silty
1413	1451	38	Limestone-oolite, pale yellowish brown to light olive gray and dark yellowish brown, silty (coarse)
1451	1468	17	Limestone, pale yellowish brown to light olive gray, dolomitic; limestone, a large amount of olive gray dark greenish gray, very shaly at the top and some brownish gray to grayish brown with dark greenish gray shale in the lower part
1468	1485	17	Limestone, pale yellowish brown, highly oolitic to dolomite, light olive gray, non oolitic, silty
1485	1499	14	Limestone, dark yellowish brown, silty (coarse), fossiliferous, (forams)
1499	1510	11	Dolomite, light olive gray to olive gray and greenish gray, anhydritic with some anhydrite; small amount of dark greenish gray, silty shale at the top; some olive gray to brownish black dolomite at bottom
1510	1532	22	POCONO FORMATION, 486 Feet Shale and siltstone, grayish brown to brownish gray, some grayish red to very dusky red in the upper part
1532	1542	10	Sandstone (very fine) to siltstone and shale, brownish gray to grayish brown, some grayish brown to grayish red
1542	1623	81	Shale, dark gray to grayish black, contains mica (muscovite and biotite) and carbonaceous material; some sandstone (very fine) to siltstone, light to medium gray; small amount of sideritic shale, some very fine, light gray sandstone at the top
1623	1642	19	Shale, dark gray; siltstone and sandstone (very fine) medium to medium dark gray, some medium dark gray to greenish gray
1642	1659	17	Shale, dark gray; siltstone, medium to medium dark gray (with greenish cast)

1659	1690	31	Siltstone, light to medium dark gray, dolomitic in part; some dark gray shale in the middle part; small amount of dark yellowish brown to dusky brown siderite
1690	1862	172	Shale, dark gray, some medium dark gray, small amount of dark gray to dusky yellowish brown (very highly sideritic); some medium dark gray siltstone and a moderate amount at the bottom
1862	1909	47	Shale, dark gray, silty; siltstone, light to medium gray; some medium dark gray, mostly siltstone in the lower part
1909	1927	18	Siltstone, medium dark gray to brownish gray and dark yellowish brown; shale, dark gray, silty
1927	1935	8	Siltstone, brownish gray, coarse, contains dead oil
1935	1954	19	Siltstone, brownish, gray, some medium dark gray, interbedded with medium dark gray to dark gray shale
1954	1962	8	Shale, dark gray; some medium dark to dark siltstone
1962	1982	20	Shale, grayish black, somewhat carbonaceous (SUN-BURY SHALE); small amount of light gray, very fine sandstone in the upper part
1982	1996	14	Sandstone, white to very light gray, very fine grained, very fine grained to coarse siltstone with a few fine to coarse sand grains (at the top), pyritic (finely disseminated), highly pyritic in part at the top, slightly calcareous - Berea Sandstone; some dark gray shale
DEVONIAN SHALES, 3, plus, feet.			
1996	1999	3	Shale and siltstone, medium dark to dark gray