CAB-349

Tennessee Adkins No. 1 (4844)

McComas District, Cabell County, W. Va.

By United Fuel Gas Company, Charleston, W. Va.

Located 1.89 mi. W. of 82°15' and 2.79 mi. S. of 38°20' -SE- Guyandot Quadrangle, on Jim Clay Branch of Bowen Creek, 1.6 mi. S. E. of Winslow.

Elevation, 735' L.

Permit, ~~Cab-349.~~ ← #349

Drilling commenced June 5, 1939; completed August 1, 1939.

Shot August 1, 1939 at 3059'.

Gas well. Volume not given.

Fresh water at 525'; salt water at 1080'.

10" casing, 28'; 8¼", 482'; 6-5/8", 1763'.

Samples taken mostly at ten foot intervals from surface to total depth.

Top	Bottom	Thickness	Pennsylvanian, not Subdivided, 1400 feet
20	30	10	Clay, red and yellow, with limestone modules
30	40	10	Sandstone, gray, fine
40	50	10	No sample, reported as slate
50	60	10	Clay, red and yellow, calcareous
60	70	10	Shale, gray, red and green, soft, calcareous
70	80	10	Shale, green, silty, micaceous
80	120	40	Clay, red, calcareous
120	170	50	Shale, green, partly silty; samples also contain some red clay and impure limestone
170	210	40	Sandstone, light-gray, fine; contains some mica and kaolin
210	240	30	Siltstone, gray to greenish, 60%; red and yellow clay and soft shale, 40%
240	300	60	Shale, gray to green; with varying amounts of siltstone
300	330	30	Shale, green and gray
330	350	20	Sandstone, light-gray, fine; contains mica and chlorite
350	360	10	Clay, gray
360	370	10	Siltstone, light-gray, shaly
370	390	20	Sandstone, light-gray, medium-grained; contains siderite, pyrite, biotite, muscovite, chlorite, and kaolin in addition to quarts
390	480	90	Sandstone, light-gray; very coarse except for the bottom ten feet which is coarse; contains the same minerals as the sandstone above, but proportion of quarts is higher and many of grains have crystal fa

Top	Bottom	Thickness	
480	490	10	Shale, dark-gray, with some coal
490	510	20	No sample; reported as slate
510	560	50	Siltstone, gray, green and brown, shaly; some true shale in each sample
560	670	110	Sandstone, light-gray, fine; contains siderite, kaolin, chlorite, muscovite, biotite and pyrite; lighter colored and has higher proportion of quarts below 670'
670	750	80	Siltstone and shale, gray; contains siderite concretions
750	810	60	Sandstone, light-gray, fine to very fine; contains muscovite, biotite and chlorite; depth is doubtful for sample from 750 to 760' and this interval is reported as slate; all four samples from 750 to 790' contain considerable coal
810	830	20	Siltstone, gray, shaly, micaceous and pyritic
830	850	20	Sandstone, gray, very fine, shaly; contains siderite, mica and carbonaceous matter
850	870	20	Siltstone, gray, shaly, micaceous
870	880	10	Sandstone, gray, very fine; like 830 to 850'
880	900	20	Siltstone, gray, shaly micaceous; this and some of the intervals above described as siltstone contain small amounts of true shale
900	970	70	Sandstone, light-gray, fine; contains small amounts of kaolin, siderite, mica and chlorite
970	980	10	Siltstone, gray, shaly, micaceous
980	1070	90	Sandstone, nearly white, very fine; contains small amount of siderite
1070	1080	10	Sandstone, gray, very fine; contains much mica and siderite
1080	1290	210	Sandstone, white with small amount of rust stain; mostly medium-grained, with some coarse and fine; mostly quarts with crystal faces on many grains; sample from 1220 to 1230' is about half dark-gray siltstone (hole full of water at 1080')
1290	1320	30	Shale and siltstone, dark-gray to black; contains considerable pyrite and carbonaceous matter
1320	1330	10	Shale and siltstone; about half black and half light-gray
1330	1340	10	Siltstone, gray, with many fragments of siderite concretions
1340	1350	10	Shale, gray
1350	1360	10	No sample; reported as slate
1360	1380	20	Siltstone, dark and light-gray, 70%; shale, 30%
1380	1390	10	Sandstone, light-brown, fine; contains much siderite
1390	1400	10	Sandstone, white, fine

Top	Bottom	Thickness	
			Mauch Chunk Group, 48 feet
1400	1410	10	Siltstone, green
1410	1445	35	Limestone, brownish-gray
1445	1448	3	Shale, gray to grayish-green; partly silty and partly fine and distinctly laminated
			Greenbrier Limestone, 182 feet
1448	1530	82	Limestone, light-gray to somewhat brownish
1530	1550	20	Limestone, light brownish gray, sandy and oölitic, larger sand grains are rounded and frosted
1550	1600	50	Limestone, nearly white, slightly dolomitic; contains a little fine sand; a few oölites from 1570 to 1600'
1600	1630	30	Limestone, light-brown, dolomitic, finely crystalline; contains some very fine angular sand and a few larger well rounded and frosted grains
			Maccrady Formation, 30 feet
1630	1660	30	Siltstone, red and green; this seems to be transitional between the typical red siltstone of the Maccrady and the gray to green siltstones common in the Pocono
			Pocono Formation, 604 feet
1660	1670	10	Siltstone, gray
1670	1680	10	Shale, gray, silty
1680	1700	20	Sandstone, light-gray, very coarse; is poorly sorted and among the finer grains contains considerable amounts of pyrite, mica, etc. in addition to quartz
1700	1740	40	Sandstone, fine, gray, pyritic
1740	2110	370	Shale, medium- to dark-gray, very silty; contains considerable mica and many black specks of carbonaceous matter; there is some fairly coarse siltstone throughout and much of the shale could just about as well be called siltstone
2110	2190	80	Siltstone, gray to grayish-green; with up to 30 or 40% of darker gray, silty shale
2190	2240	50	Shale, gray, pyritic
2240	2250	10	Shale, black (Sunbury Shale)
2250	2264	14	Sandstone, gray, very fine, pyritic (Berea Sandstone)
			Devonian Shales
2264	2300	36	Shale, gray, distinctly laminated
2300	2380	80	Siltstone, dark-gray
2380	2630	250	Shale, gray; with about 30 to 40% of gray shaly micaceous siltstone
2630	2740	110	Shale and siltstone, medium- to dark-gray; the proportion of very dark fragments increases from about 30% at the top of this interval to 70 or 80% at the bottom

Top	Bottom	Thickness	
2740	2760	20	Shale, very dark-gray
2760	2970	210	Shale, gray
2970	3010	40	Shale, very dark gray
3010	3040	30	Shale, gray, much lighter than that above
3040	3210	170	Shale; about 70% very dark-gray and 30% much lighter; contains spore cases from 3150 to 3210'
3210	3240	30	Shale, about half dark- and half light-gray, with much pyrite; many spore cases in dark part
3240	3290	50	Shale, dark-gray to black, pyritic, mostly silty; contains many brown spore cases (gas at 3215 to 3245')
3290	3510	220	Shale, light-gray to grayish-green; small amounts of dark-gray to brownish shale in some samples
3510	3605	95	Shale, dark-gray to black, pyritic
	3605		Total depth