A. L. Cottrell No. 1 (7665)

B1K-351

Glenville District, Gilmer County, W. Va.							
By Pittsburgh and West Virginia Gas Company, Pittsburgh, Pae							
Located 3.4 mi. W. of 80°45' and 3.38 mi. S. of 59°00' -MEA Glenville Quadrangle:							
2.5 mi. N. E. of Glenville.							
Elevation, 1102' L.							
Dri	lled under	permit,	011-351.				
Dri	lling com	ensed Fel	b. 23, 1939; completed, March 20, 1989.				
13*	wood cond	uctor, 11	L'; 10" casing, 155'; 84", 783'; 6 5/8", 1760'.				
Dry	hole.	Perce					
Тор	Botto	Thickne	or based on examination of semples.				
0	20	20	Clay humm contraining limenting and the				
20	58	38	We samples				
58	104	48	Shale, mixed gray and and unlight as low and a				
			some fine sandstope				
104	122	18	Clay, red. galgaragua				
122	182	60	Shale, gravish-green, mostly silty contains and				
			calcareous material. apparently as streaks and				
			nodules rather than svenly distributed				
182	200	18	Siltstone, green, micaceous, slightly onloaveous.				
			contains some black specks of carbonaseous material				
200	23 5	35	Sandstone, green, very fine				
285	335	100	Clay and soft shale, red, calcareous; considerable				
			yellow mixed with the red down to 275				
335	355	20	Siltstone, green, with considerable amount of red clay				
			and some green shale; sample 335 to 340 is more than				
			half red elay				
355	36 6	9	Clay, red and yellow, 70%; green siltstone, 30%				
366	586	20	Shale, green and gray; upper half very silty				
386	395	9	Clay, red, calcareeus				
395	418	23	Clay, red, 60%; light-gray, very fine textured limestone, 40%				
£1 8	448	30	Shale, green, silty, micaseous; considerable limestone				
			and some red shale, probably both from above				

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Тор	Bottom	Thickness	
448	459	11	Shale, dark-gray, fossiliferous; contains abundant
			fragments of orinoid stems and fragments of other fossils
459	480	21	Siltstone, grayish-green
480	488	8	Sandstone, light-grayish green, fine
488	525	3	Shale, green, mostly silty
525	541	16	Shale, light-gray with a little green
541	554	15	Limestone, brown and light-gray, very fine textured
554	564	10	Shale, gray
564	572	8	Shale, black, with a little coal
572	600	28	Shale, gray, soft; with some fine textured gray to
			brown linestone
600	630	30	Sandstone, nearly white, medium-grained; contains
			muscovite, biotite, chlorite, kaolin and pyrite
630	650	20	Shale, black, silty, micaceous
650	666	16	Clay, red and gray
666	776	110	Shale, grayish-green; interstratified with green,
		mica	ceous siltstone; samples contain some limestone, which
			probably occurs as concretions
776	806	30	Shale, gray; top half fine and soft, bottom half harder,
			silty and calcareous
806	830	24	Sandstone, light grayish green, fine, micaeeous
830	866	36	Sandstone, white, coarse; contains some mica and kaolin
866	900	34	Shale, gray to grayish-green, silty, misaceous; some
			fragments contain siderite spherulites
900	923	23	Shale, dark-gray to black, mostly silty; with a little
			coal (coal probably between 900-911)
923	936	13	Shale, gray, soft; mostly resembles fire-clay
936	981	45	Sandstone, white, medium-grained; contains small amounts
			of mica, chlorite and kaolin
981	992	11	Shale, dark-gray to black, with traces of coal
992	1053	61	Shale, mixed light- and dark-gray; many siderite
			spherelites in lighter part
1053	1085	32	Siltatone, black, shaly; contains much mica, carbonaceous
			matter and siderite

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Top	Bottom	Thickness	
1085	1110	25	Sandstone, light-gray, very fine; a little coal in upper
			part of interval
1110	1235	125	Shale, and siltstone, dark-gray, micaoeous; a little
			light-gray, very fine sandstone from 1177 to 1210;
			fragments of siderite concretions in several samples
1235	1256	21	Shale, black, fissile; a little coal 1244 to 1256
1256	1310	54	Shale, dark-gray, very silty, with siderite concretions
1510	1378	68	Sendstone, white, medium-grained; contains small amounts
			of kmolin, mica, and chlorite (gas at 1358, 12/10 water
			in ¹ / ₂ ")
1378	1402	24	Siltstone, gray, shaly; a little light-gray, fine
			sandstone near bottom
1402	1465	63	Shale, dark-gray, silty; contains siderite concretions
1465	1491	26	Sandstone, white, very fine
1491	1500	9	Siltstone, gray
1500	1517	17	Shale, Mikok, fissile
1517	1533	16	Sandstone, white except for some dark shaly streaks, very
			fine
1533	1549	16	Shale, light- and dark-gray, partly silty; light part
			contains many siderite spherulites
1549	1558	9	Sandstone, light-gray, very fine
			Mauch Chunk Group, 160 feet.
1558	1897	83	Shale, red and green, calcareous; throughout this
			interval there is 60 to 705 red and the rest green
1597	1638	41	Shale, grayish-red, gray and green; calcareous; similar
			to interval above but colors not so bright; a little
			limestone from 1637 to 1638
1638	1648	10	Limestone, light-gray, very fine textured, somewhat
			delomitic; also some red and green shale and white to
			green siltstone
1648	1657	9	Shale, red, calcareous
1657	1666	9	Shale, gray, calcareous
1666	1692	26	Limestone, dark-brown, gray when dry; with 30 to 40%
			of gray shale (Little Lime)
1692	1708	16	Sandstone, nearly white, very fine hard; with about equal
			amount of gray and green shale

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Top	Bottom	Thickness	
1708	1718	10	Shale, gray; with much limestone (Pencil Cave)
			Greenbrier Limestone, 159 feet.
1718	1785	39	Limestone, gray to brown, fossiliferous; contains a few
			colites but is not made up of them to any great extent
1737	1778	36	Limestone, brownish-gray; mostly very fine textured, but
	•		contains a little more coarsely crystalline calcite in
			fossile (gas show at 1745)
1778	1787	14	Linestone, dark-brown, nearly neutral gray when dry
1787	1805	18	Limestone, light-gray, sandy, with a few colites near top
1805	1829	24	Limostone, brownish-gray, containing a little sand
1829	1842	13	Limestone, light-gray, very fine textured
1842	1849	7	Sandstone, white with yellow stain, very fine, not
			calcareous (this sample may be out of place since it
			contains no limestone and the one immediately below contains
			no sandstone); gas 1847 to 1849, 8/10 water in 1"; 81M; 1849
1849	1854	5	Shale, dark-gray; with large amount of dark-brown limestone
			which locks like that from 1666 to 1692; this sample is
		S	probably out of place
1854	1877	22	Limestone, nearly white, sandy; samples do not contain
			any of the dark shale and limestone like that in
			sample labelled 1849 to 1854
			Poseno Formation, 29+ feet.
1877	1906	29	Shale, grayish green, silty
	1906		Total depth

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