Brent Talbot, et. al. No. 1 (294) Well

4p-73

Meade District, Upshur County, W. Va. By Cumberland and Allegheny Gas Company, 800 Union Trust Building, Pittsburgh, Pennsylvania. Located 1.05 mi. W. of 80°15' and 3.72 mi. S. of 38°55' -EC- Crawford Quadrangle, 2.5 mi. S. E. of French Creek. Blevation, 1802' L. Permit, (Up=75.) Drilling commenced October 16, 1939; completed, December 51, 1939. Shot January 2, 1940, at 4049-4062'. Open flow 140,227 ou. ft. per day. Rock pressure, 1050 lbs. in 72 hours. Fresh water at 95'; salt water at 1058'. Coal was encountered at 240-245 and 315-518'. 16" conductor, 16'; 10" casing, 300' 8"; 81", 1246'7"; 6-5/8", 2210'; 4" tubing, 4174'; all left in. 0.W.S. packer, 8-5/8" x 4", set at 3718'. Perf. top 4145; perf. bot. 4165'; perf. top 4012; perf. bot. 4034' Top Bottom Thickness Comemaugh Formation, 50+ feet 0 12 Mud yellow (no sample) 12 8Å 12 50 Sandstone, white, medium-grained, poorly sorted; apparently not affected by weathering (water at 951, d bailer per hour) Allegheny Formation, 195 feet 60 155 105 Shale and siltstone, gray to grayish-green, silty, micacecus; contains siderite concretions 155 205 80 Sandstone, white, medium- to coarse-grained; contains a little kaolin, mica and siderite

205 210 5 Shale, black, highly carbonaceous, 50%; white sandstone, 50%

210 280 10 Shale, dark-gray to black

220 240 20 Sandstone, white, medium-grained; contains some mica and chlorite

!	Гор	Bottom	Thickness	
1	240	245	5	Coal (only a little shows in samples)
				Pottsville Formation, 840 feet
4	245	260	15	Sandstone, white, medium-grained, with some crystal
				faces on the quartz
:	260	315	5 45	Siltstone, dark-gray, shaly, micaceous; somewhat
				brownish from siderite between 260 and 290
ł	315	318	3	Coal (does not show in samples; probably Upper Mercer
				Coal)
;	318	345	27	Shale, black
\$	545	424	79	Sandstone, light-gray, medium-grained; contains some
				mica, chlorite and kaolin; about 40% of dark-gray
				siltstone from 365 to 390'
	124	435	11	Siltstone, gray, shaly
	435	455	20	Shale, gray, mostly silty
	£ 55	500	45	Sandstone, light-gray, fine to medium-grained, micaceous
ł	500	512	12	Shale, gray, soft, with siderite spherulites
Į	512	550	38	Sendstone, light-gray, medium-grained; contains mica,
				chlorite and kaolin
ł	550	570	20	Siltstone and shale, gray (gas show at 555')
1	570	612	42	Sandstone, light-gray, medium-grained; contains mica,
				chlorite and siderite
(812	635	23	Sandstone, white, medium-grained, nearly all quartz
				(gas show at 620-625')
(635	690	55	Shale, dark-gray, very silty (might be considered
				about 50% siltstone)
(5 90	726	36	Siltstone, gray
•	726	750	24	Sandstone, white, fine
•	750	770	20	Shale, gray, very silt y
	770	795	25	Sandstone, white, medium-grained, poorly sorted
•	795	8 24	29	Conglomerate, white; composed of quartz pebbles and
				coarse sand
8	324	840	16	Sendstone, white very coarse, 60%; gray shale and
				siltstone, 40%; small amount of coal
8	340	974	134	Shale, dark-gray to black

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Tor	Bottom	Thickness	
974	1050	76	Sandstone, nearly white, medium-grained; is mostly
			quarts but contains a little kaolin
1050) 1080	80	Sandstone, white, coarse to very coarse nearly all quarty
			(water at 1058*, 7 bailers in $l_{\overline{2}}^{1}$ hours)
1080	1085	5	Conglomerate, nearly white; composed of broken quartz
			pebbles and coarse sand
			Mauch Chunk Group, 315 feet
1085	5 10 92	7	Shale, gray, soft; fragments break up when placed in
			water
1092	: 1105	13	Shale, red, 50%; light-green siltstone, 30%;
			impure brownish limestone, 20%
1105	5 1110	б	No sample
1110	1115	5	Shale, gray
1118	5 1168	53	Shale, red, soft, partly calcareous
1168	1192	24	Siltstone, gray, shaly, micaceous
1192	1220	28	Sandstone, light-gray to light-green, fine, micaceous;
			calcereous from 1215 to 1220'
1220) 1258	38	Shale, red, with some gray toward bottom
1258	1286	28	Shale, gray to greenish, silty
1286	1310	24	Shale, red, soft
1310	1320	10	Limestone, brown
1320	1340	20	Shale, gray to greenish, mostly soft, 60%; brown
			linestone, 40%
1340	1348	8	Limestone, dark-brown, 70%; gray shale, 30%
1348	1366	18	Limestone, gray and brown, 70 to 80%; soft gray shale,
			30 to 20%
1366	1384	18	Shale, red, 60%; highly calcareous, white to light-green
1384	1400	16	siltstone, 40% Shale, gray, soft
			Greenbrier Limestone, 245 feet
1400	1410	10	Limestone, gray and brown
1410	1435	25	Limestone, nearly white, with some brown; contains
			some oölites, mostly not very distinct
1435	1450	15	Limestone, light-brown

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Top	Bottom	Thickness	
1450	1465	15	Limestone, light-brown, colitic and sandy
1465	1492	27	Limestone, light-brown, fine textured
1492	1505	13	Limestone, light-brown, moderately sandy
1505	1524	19	Sandstone, light-brown, to gray, highly calcareous;
			contains a few colites
1524	1542	18	Sandstone, light-green, very fine, somewhat calcareous,
			50%; light-brown, highly calcareous, medium-grained
			sendstone with colites, 50%
1542	1550	8	Limestons, light-brown to white, colitic and partly
			sandy, 70%; red, highly calcareous siltstone, 30%
1550	1585	35	Limestone, light-brown, very sandy, colitic; some
			fragments are more sandstone than limestone
1585	1645	60	Limestone, nearly white to light-brown; light-gray
			when dry; somewhat dolomitic
		Have	pshire ("Catskill") Formation, 505 feet
1645	1668	28	Shale, green, partly sandy, decreasing in amount
			from 80% at top of interval to 50% at base; the rest
			poorly sorted sandstone with white quartz pebbles
			in green matrix
1668	1700	32	Sandstone, light-green, poorly sorted, containing
			white quartz pebbles in decreasing amount toward
			the bottom; samples contain also about 20% of
			gray and green shale and a very few fragments of
			bright-red shale
1700	1720	20	Sandstone, light-gray, fine, poorly sorted, slightly
			calcareous
1720	1746	26	Sandstone, light-gray, fine, 70 to 60%; gray shale,
			30 to 40%
1746	1765	19	Sandstone, light-gray and light-green, fine, slightly
			calcarsous
1765	1798	33	Sandstone, light-grayish red, gray and green, fine
1798	1820	22	Shale, red, 70%; gray and green shale with some
			siltstone, 30%

Top	Bottom	Thickness	
1820	1830	10	Shale, red, 50%; gray and green shale with some fossil
			shells, 30%; siltstone and fine sandstone, 20%
1830	2000	170	Shale and siltstone, red with small amount of gray
			and green; no attempt was made to estimate the
			varying proportions of shale and siltstone in
			individual samples
2000	2020	20	Sandstone, grayish-red, very fine
2020	2050	50	Shale, red, 90%; gray and green shale 10%
2050	2060	10	Shale, gray
2060	2070	10	Sandstone, red, very fine
2070	2080	10	Shale, gray to grayish-green
2080	2121	41	Sandstone, fine to very fine, mostly red with some
			white and green, 60 to 70%; gray and green shale
			40 to 30%; a few fossil shell fragments
2121	2150	29	Siltstone and shale, red (gas at 2148'; SIM 2158')
		Ch	emung, Portage, etc., 2242+ feet
2150	2168	18	Sandstone, light-gray with green s pecks, fine,
			micaceous (Gordan Sand recorded at 2140 to 2158*)
21 68	2186	18	Siltstone, gray, shaly
2186	2195	9	Sandstone, white, fine, 70%; gray shale, 30%
2195	2250	55	Shale, gray, 60%; gray to green siltstone and fine
			sandstone, 40%
2250	2 2 80	30	Sandstone, light-brown, fine, poorly sorted; contains
			a little biotite, muscovite and pyrite
2280	2310	30	Shale, greenish-gray
2310	2370	60	Sandstone, grayish-green to nearly white, very fine,
			slightly calcareous, 60%; gray shale, 40%; toward
			bottom the sandstone becomes practically a siltstone
2370	2390	20	Shale, gray
2390	2550	160	Shale, gray, 50%; gray and green siltstone and very
			fine sandstone, 50%; some of siltstone is slightly
			calcareous
2550	2610	60	Siltstone, gray to green, 70 to 90%; gray shale, 30 to 10%
2610	2640	30	Shale, gray, 50%; gray and green siltstone, 50%

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Top	Bottom	Thickness	
2640	2718	78	Siltstone, gray to greenish, 60 to 90%; gray shale 40
			to 10%; siltstone is highly fossiliferous from 2708
			to 2718' and contains a few shell fragments in some
			other samples
2 718	2933	21 5	Shale, gray, 60 to 80%; siltstone, gray to grayish-green
			slightly calcareous, 40 to 20%; a few fossil shell
			fragments in some samples
2933	3015	82	Siltstone, gray, highly fossiliferous, 80 to 90%;
			gray shale, 20 to 10%; much of siltstone from 2965
			to 2995' is dark-gray to brownish
3015	3326	311	Siltstone, light-gray to grayish-green, slightly to
			moderately calcareous; some fossil shell fragments
			in most samples but more from 3075 to 3135; most
			samples contain about 10 to 20% of gray shale
3326	3407	81	Siltstone, gray, shaly, slightly calcareous; there
			is only a small proportion of true shale but most
			of the siltstone is a little darker and finer than
			in the interval above
3407	3605	198	Siltstone, gray to grayish-green, slightly calcareous,
			50 to 70%; gray shale, 50 to 30%; perhaps a few
			samples in upper part of interval are more shale
			than siltstone; there is no sharp distinction between
			the two rocks
3605	3690	85	Siltstone, gray, slightly calcareous; considerable
			brown from 3605 to 3640°, perhaps due to too much
			heat in drying samples
3690	3760	70	Siltstone, gray, shaly, slightly calcareous, 70%; gray
			shale, 30%
3760	4053	297	Shale, gray, silty; all samples contain some siltstone
		<u>.</u>	and a few have up to 50%, but on the whole the interval
			is mostly shale
4053	4068	15	Sandstone, brown, very fine, slightly calcareous; with
			some gray shale (gas at 4053-4057', 60/10 W. in 1")
4068	4090	22	Siltstone, gray and brown, shaly

Top	Bottom	Thickness	
4090	4363	273	Siltstone and shale, mostly gray; some brown siltstone
			near top; below 4170' shale is considerably in
			excess of siltstone in most samples; color is very
			dark from 4262 to 4272' and from 4292 to 4312'
	4363		Total depth; hole filled up to depth of 4165

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