JAC-101

F. F. Starcher et al. No. 1 (GH-466)

Revensed District, Jackson County, W. Va. By Columbian Carbon Company, Charleston, W. Va. Located 2.6 mi. W. of 81*35' and 3.8 mi. 8. of 38*55' -C- Ripley Quadrangle. Elevation, 954.5' L. Permit, Jao-101. Drilling commenced Oct. 5, 1940; completed Feb. 5, 1941. Shot, Feb. 6, 1941 - depth 5316-5348' SIM. Volume, 16,696,000 ou. ft. Rock pressure, 1810 1bs. in 6 days. Fresh water at 130', $\frac{1}{2}$ - 16" bailer per hr. at 829', 2 - 16" bailers per hr. Salt water at 1626', 5-10" bailers per hr. 16" casing, 60"; 13-3/8", 1006"5"; 102", 1335"4#; pulled; 6-5/8", 2388"7"; 7", 5262"10". Section based on samples from 1319 to 5414', examined by C. Apsouri. Top Bottom Thickness Pennsylvenian, 765+ feet 1519 Clay, light-red and white; some siderite spherulites 1323 4 1323 1330 7 Clay, grayish-green, soft, with siderite spherulites 1330 Siltatone, green, 60%; medium- to fine-grained sandstone, 40% 1844 14 1344 1350 6 Shale, green, with siderite spherulites 1350 1355 Б Siltstone, red 1355 1362 7 Siltstone, green 1362 1373 11 Clay, grayishered; also green siltatone, etc. 1878 1386 13 Siltstone, green and gray 1385 1400 14 Sandstone, white, fine, slightly calcareous 1400 1407 7 Clay, green and reddish, soft; with siderite spherulites 1407 1415 8 Clay and siltstone, gray 1415 1428 7 Sandstone, white, medium-grained, calcareous 1422 1430 8 Siltstone, gray 1430 1446 16 Shale, light-gray 1446 1454 8 Clay, gray 1454 1461 7 Shale, brown and greenish-gray 1461 1602 41 Siltstone, green to gray, shaly 1502 7 1509 Shale, gray

Top	Rathan	Thickness	
1509	1532	23	
2000	2008	~~~	Clay, very light brown, with siderite spherulites, 70%;
1080	3510		siltstone, light-gray, 30%
1532	1540	8	Siltstone, gray, 55%; clay, brown, with siderite spherulite, 45%
1540	1649	9	Sandstone, white, fine
1549	1559	10	Clay, white, 60%; light-brown shale, 40%
1559	1573	14	Siltstone, green and light-gray
1573	1612	39	Sandstone, white, very fine
1612	1621	9	Siltstone, gray
16 21	1630	9	Sandstone, white, fine
1630	1636	6	Siltstone, gray
1636	1668	82	Sandstone, white, medium-grained
1668	1676	8	Shale, gray
1676	1685	9	Shale, very dark gray, 70%; siltstone, white, with many siderite
			spherulites
1685	1708	23	Siltstone, gray
1708	1715	7	Sandstone, white, very fine; 60%; micaceous siltstone, 40%
1715	1723	8	Sandstone, white, fine, with many siderite spherulites
1725	1743	20	Siltstone and shale, gray
1743	1776	63	Siltstone, gray to dark-gray
1776	1799	23	Sandstone, white, fine
1799	1834	35	Siltstone, gray to dark-gray
1834	1860	25	Shale, dark-gray to very dark gray
1860	1895	38	Siltstone, gray to very dark gray
1895	1904	9=	Sandstone, white, very fine, 50%; gray sandy siltstone, 50%
1904	1912	8	Siltstone, dark-gray
1912	1929	17	Shale, dark-gray and brown
1929	1937	8	Sandstone, white, very fine, 70%; gray siltatone with siderite
			spherulites, 30%
1937	1947	10	Siltstone, brown
1947	1976	29	Sandstone, white, very fine; small amount of gray to black
			siltstone
1976	2017	41	Sandstone, white, medium-grained
2017	2024	7	Sandstone, white, fine (salt water at 2020', hole full)

Top	Bottom	Thickness	
2024	20 34	10	Sandstone, white, mediume to coarse-grained
2034	2036	2	Shale, black
203 6	2041	5	Sandstone, white, medium-grained
2041	2050	9	Sandstone (?), white, very fine; the samples actually consist
			mently of light-gray and green calcareous clay, probably
			cavings, since this interval is recorded as lime
2050	2054	4	Sandstone, white, fine; some clay cavings as above
2054	2065	11	Siltstone, dark-gray, shaly and sandy; samples are mostly
			clay cavings as in interval 2041-2050'
2065	2072	7	Sandstone, white, very coarse; considerable amount of soft
			green shale, 2070-2072' (oavings?)
		0	reentrier Limestone, 130 feet
2072	2080	8	
		•	Shale, gray to brownish, soft, not distinctly laminated; much
			siderite at top (possibly this should be assigned to the
2072	0180	<u></u>	Mauch Chunk, or it may be residual clay from the Greenbrier)
2076	2132	60	Limestone, light-brown to nearly white; samples contain large
<u> </u>			amounts of shale cavings; mostly like that from 2072-2080:
2132	2144	12	No samples
2144	2202	58	Limestone, white to very light brown; mostly colitic from
			2156 to 2202'; sandy and dolomitic near bottom
		P	conc Formation, 464 feet
2202	2234		Siltatone, nearly white to greenish; some very fine sandstone,
			2216-2222'; samples contaminated by clay and shale cavings
2234	2269	26	Sandstone, white, very fine, containing a few coarse quarts
			grains; caloareous
2 269	2276	7	Siltstone, gray to brownish
2276	2300		Sandstone, white, fine, slightly calcareous
2200	2642		Siltatone, gray to nearly white
2642	2664		Shale, very dark-gray, silty (Sumbury Shale)
2664	2666		Sandstone, white, very fine (Beres Sandstone; thickness
			estimated; occurs in sample representing 7 foot interval and
			composed mostly of siltstone like that below)
			The second second start fighter

Top	Bottom	Thickness	
2664	2666		Devonian Shales, 2532 feet
2666	3883	1217	Shale and siltstone, gray to light-gray; very dark shale
			first appears in considerable amount at 3883*; samples not
			described in detail
3883	5198	1415	Shale, gray, dark-gray and black; samples not described in
			detail (depth corrected from 5161 to 5198*)
			Huntersville Chert, 118 feet
5198	5251	53	Linestone, brown, very cherty; thin streak of brown siltstone
			with biotite at top
5251	5257	6	Limestone, light-brown, very cherty; contains a little glaucenite
52 57	5 27 9	22	Limestone, brown to light-brown, very cherty
5279	5292	15	Limestone, brown, cherty, glauconitic
5 292	5297	5	Limestone, brown, oherty
5 297	5316	19	Mmestone, brown, cherty, glauconitic; very sandy, 5297-5301;
			much glauconite at bottom
			Oriskany Sandstone, 69 feet
5316	5376	59	Sendstone, white, medium- to fine-grained, calcareous (gas
			pays: 5317-5320, 5530-5536, 5543-5544, 5360-5362')
5375	5381	6	Sandstone, white, fine to very fine, highly calcareous
5361	5385	2	Sandstone, white, medium- to coarse-grained, highly calcareous
5883	5385	2	Sandstone, white, fine- to medium-grained, highly calcareous
			Helderberg Limestone, 39+ feet
5385	5397	12	Limestone, dark-brown, sandy and oherty
5397	5409	12	Sandstone, white, fine, highly calcareous; some chert from
			5408 to 5409'
5409	5414	5	Limestone, brown, cherty
	5424		Total depth

-