P. F. Riggs et al No. 1 (GW-462) Well

Ravenswood District, Jackson County, W. Va. By Columbian Carbon Company, Charleston, W. Va. 34°00 Located 2.67 mi. W. of 81°35' and 5.28 mi. S. of NC- Ripley Quadrangle. Elevation, 63444', L. Permit, Jao-96. Drilling commenced Aug. 19, 1940; completed, Dec. 15, 1940. Shot Dec. 12, 1940, depth 4939-4985' SIM. Volume 4,500,000 cu. ft. per day; pressure 1870 lbs. in 10 days. Fresh water at 26', 2-11" bailers per hour; at 145', 2-11' bailers per hour. Salt water at 510', 3-11" bailers per hour; at 1155', 2-10' bailers per hour; at 1256 to 1250', hole full.

18 5/8" oasing, 19'6" (pulled); 16", 42'8"; 18 3/8", 215'5" (pulled); 10²/₄", 983'4"; 8 5/8", 1997'7"; 7", 4887'6"; 2 5/8", 5060'10"; 5¹/₂", 119'4".

This section is based upon a nearly complete set of samples from 1630 to the total depth of 5042 feet. It is possible that the base of the Oriskany should be at 5017 feet rather than at 4996 as indicated.

Top Bottom Thickness

Pottsville Formation, 103+ feet

1630	16 97	67	Sandstone, white, medium- to coarse-grained, nearly all
			quarts; crystal faces on many grains
1697	1708	11	Siltstone, dark-gray, shaly
1708	1713	5	Shale, black, silty
1713	1720	7	Shale, dark-gray, silty, 70%; siltstone, light-brown, sandy,
			30%
1720	1723	5	Shale, dark-gray to black, with small amount of coal
1723	1733	10	Sandstone, nearly white, coarse
			Greenbrier Limestone, 102 fest
1733	1751	18	Limestone, very light brown
1751	1762	11	Limestone, nearly white
1762	1777	15	Limestone, nearly white to light-brown, colitic; contains
			about 20% sand
1777	1795	16	Sandstone, nearly white, fine, highly caleareous; larger
			quarts grains are rounded and frosted; contains a few colites

	Тор	Bottom	Thiokness				
	1793	1803	10	Limestone, very light brown, colitic; composed mostly of			
				distinctly formed colites, not very thoroughly comented;			
				contains some sand			
	1803	1835	32	Limestone, nearly white, very finaly orystalline, dologitie;			
			,	contains small to moderate amount of sand			
Pocono Formation, 482 feet							
	1835	1840	5	Sandstone, light greenish gray, very fine			
	1840	1845	5	Sandstone, nearly white, very coarse, 40%; gray, somewhat			
			1	dolomitic siltstone and very fine sanistone, 50%			
	1845	1924	69	Sandstone, white, medium- to coarse-grained, nearly all			
				quarts; many grains have orystal faces			
	1924	1964	40	Sandstone, light-gray, fine; contains a little dolomite			
1	1964	1975 -	11	Siltstone, gray, shaly			
	1975	1992	17	Sandstone, light-gray, very fine; calsareous from 1982			
				to 1992*			
	1992	2010	18	Siltstone, gray, shaly			
	2010	2053	43	Sandstone, light-gray, very fine, slightly calcareous, 60			
				to 80%; gray shale and siltstone, 20 to 40%			
	2055	2063	10	Sandstone, light-gray, very fine			
	2063	2278	Z15	Siltstone and shale, gray; most of the samples have more			
				siltatone than shale; structure is distinctly shaly			
	2278	2314	36	Shale, very dark brownish-gray (Sunbury Shale)			
	2314	2317	3	Sandstone, nearly white, fine, pyritic (Beres Sandstone)			
				Devonian Shales, 2510 feet			
	2317	2409	92	Siltatone, gray, shaly, fossiliferous, partly calcareous			
	2409	2420	11	No sample			
	2420	2433	11	Shale and siltstone, gray, 90%; shale, grayish-red, 10%			
	2433	2577	144	Shale and siltstone, gray to grayish-green; small amounts			
				grayish-red to brown shale in several samples			
	2577	4827	2250	Shales and siltstones; samples not examined through this			
				interval			

Top Bottom Thickness

Huntersville Chert, 109 feet 23 Limestone, brown, cherty; samples contain large amounts 4827 4850 of gray to black shale, probably cavings; small amounts of biotite-rich siltstone in three samples from 4829 to 4850' (SLM at 4827') Limestone, light-brown, cherty, fessiliferous; contains 4850 4876 26 a very little dolomite 4876 4986 60 Limestone, brown, cherty and silty; contains moderate to large amounts of silt or very fine sand; somewhat dolomitie (SLM at 4936') Oriskany Sandstone, 60 feet 4936 4980 44 Sandstone, white, medium- to fine-grained, slightly calcareous; large amount of rust stain on most samples 4980 4996 16 Sandstone, light-gray, fine to very fine, calcareous Helderberg Limestone, 46+ feet 4996 5002 6 Limestone, brownish-gray, very sandy; slight trace of light-gray chert, 4999-5002* 5002 5017 Sandstone, light-gray, fine, calcareous 15 5017 5042 Limestone, light-brown, oherty and silty 35 5042 Total depth, SLM