

S. D. Littlepage No. 5 (5028) Well

Walton District, Reane County, W. Va.

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

Located 3.32 mi. W. of 81°20' and 1.7 mi. S. of 38°35' -3C- Walton Quadrangle.

Elevation ?

Permit ROA-413.

Completed Oct. 1941.

Dry hole; salt water in Oriskany.

Section based on samples from 40 to 5503' examined by C. Apsouri and J. H.

C. Martens. According to geologic map well starts in lower part of Monongahela.

Top	Bottom	Thickness	
<u>Pennsylvanian, 1678+ feet</u>			
40	50	10	Siltstone, gray to green, shaly, 60%; green shale, 40%
50	68	18	Siltstone, gray, shaly, 50%; gray, green and yellow shale, 50%
68	75	7	Shale, gray, 70%; green siltstone, 30%
75	89	14	Sandstone, white, medium-grained
89	113	24	Shale, gray to brown
113	130	17	Clay, very light brown, sandy
130	227	97	Clay, red; several samples contain small amounts of other rocks suggesting the possibility of much of the clay being cavings
227	233	6	Shale, yellow, 60%; green shale, 35%; red shale, 5%
233	270	37	Shale, red
270	290	20	Siltstone, green, sandy
290	303	13	Shale, red
303	308	5	Shale, green, red and gray
308	313	5	Shale, green, silty
313	326	13	Sandstone, green, silty
326	338	12	Siltstone, gray to green
338	349	11	Sandstone, white, fine, with some siderite
349	373	24	Siltstone, green
373	390	17	Shale, red
390	413	23	Siltstone, green, sandy

Top	Bottom	Thickness	
413	425	12	Sandstone, white to black, fine, containing carbonaceous material, 50%; light-gray, soft shale, 50%
430	436	6	Shale, yellow, red, green and gray
436	442	6	Shale, gray, 50%; yellow to red shale, 50%
442	458	16	Shale, green, 50%; brown and red shale, 50%
458	463	5	Siltstone, white, sandy, micaceous
463	516	53	Shale, green; some red and gray shale, perhaps cavings
516	546	29	Siltstone, light-green, sandy
546	551	6	Sandstone, white, fine (depth of sample doubtful)
551	552	1	Siltstone, greenish yellow, shaly
552	636	34	Shale, gray, brown, and nearly white
636	660	24	Shale, gray, brown, and nearly white
660	667	7	Siltstone, very light gray
667	676	9	Sandstone, white, very fine micaceous, containing siderite, 75%; very light gray siltstone
676	683	7	Siltstone, gray to light-gray, sandy
683	708	25	Shale, gray
708	736	27	Sandstone, white, fine
736	745	10	Shale, gray, silty, carbonaceous
745	800	55	Sandstone, white, very fine; 20 to 30% of gray to brown shale, 768-786'
800	818	18	Shale, gray
818	832	14	Sandstone, white, very fine
832	839	7	Sandstone, white, very fine, 80%; black shale, 20%
839	851	12	Shale, black, carbonaceous
851	927	71	Sandstone, white, fine; some thin streaks of gray shale
927	946	19	Shale, gray, silty
946	952	6	Sandstone, white, fine to very fine, with siderite spherulites
952	966	14	Siltstone, gray
966	998	32	Sandstone, white, fine
998	1012	14	Shale, gray, silty

Top	Bottom	Thickness	
1012	1046	34	Sandstone, white, very fine, micaceous; small amounts of gray shale and siltstone
1046	1054	8	Siltstone, very light gray
1054	1122	68	Shale, gray
1122	1155	33	Sandstone, very fine- to medium-grained, micaceous
1155	1164	9	Siltstone, gray, sandy
1164	1178	14	Shale, gray
1178	1215	37	Siltstone, gray, containing siderite
1215	1239	14	Sandstone, white, very fine, silty, micaceous
1239	1272	33	Sandstone, white, medium- to coarse-grained
1272	1277	5	Shale, very dark gray, 50%; light-gray shale, 50%
1277	1324	47	Sandstone, white, very fine, silty
1324	1337	13	Sandstone, white, medium- to coarse-grained
1337	1339	2	Sandstone, white, fine
1339	1373	34	Sandstone, white, medium-grained
1373	1384	11	Shale and siltstone, gray
1384	1390	6	Sandstone, white, fine
1390	1396	6	Siltstone, gray, shaly
1396	1414	18	Sandstone, white, coarse, nearly all quartz; crystal faces on many grains
1414	1426	12	Sandstone, white, medium-grained, similar to that above
1426	1515	89	Sandstone, white, medium-grained, nearly all quartz; crystal faces on many grains
1515	1560	45	Sandstone, white, medium- to coarse-grained, nearly all quartz; many grains have crystal faces
1560	1567	7	Sandstone, white, coarse, 90%; gray shale and siltstone, 10%
1567	1590	23	Sandstone, white, coarse; nearly all quartz; many grains with crystal faces
1590	1606	5	Sandstone, white, very coarse, nearly all quartz; many grains with crystal faces and many fragments of quartz pebbles

Top	Bottom	Thickness	
1605	1632	27	Sandstone, white, coarse, pebbly; crystal faces on many grains
1632	1638	6	Sandstone, white, very coarse, pebbly
1638	1658	20	Sandstone, white, medium-grain; crystal faces on many grains; a few pieces of pyritic coal
1658	1664	6	Sandstone, white, medium-grained, with considerable amount of rust stain
1664	1678	14	Sandstone, white, medium-grained, nearly all quartz crystal faces on many grains; some coarse to very coarse grains
<u>Mauch Chunk Group, 71 feet</u>			
1678	1690	12	Sandstone, white, similar to that above but contains more pyrite and a few green shale fragments
1690	1723	33	Sandstone, white, fine, nearly all quartz; crystal faces on many grains; a little green shale, 1708-1715'
1723	1733	10	Limestone, brown, highly dolomitic
1733	1749	16	Limestone, brown; a little gray and green shale, 1744-1749'
<u>Greenbrier Limestone, 158 feet</u>			
1749	1762	13	Limestone, very light brown, sandy
1762	1813	51	Limestone, light-brown to very light brown
1813	1822	9	Limestone, light-brown, with some oolites
1822	1827	5	Limestone, very light brown, dolomitic
1827	1833	6	Limestone, very light brown, oolitic
1833	1840	7	Limestone, very light brown, oolitic, sandy
1840	1845	5	Limestone, very light brown, sandy
1845	1851	6	Limestone, very light brown, oolitic and sandy
1851	1857	6	Limestone, light brown, sandy
1857	1898	41	Limestone, brown to nearly white, oolitic; oolites mostly rather indistinct
1898	1907	9	Limestone, very light brown, sandy
<u>Pocahontas Formation, 437 feet</u>			
1907	1957	50	Sandstone, light-green to nearly white, slightly calcareous; texture is mostly fine to very fine but a few coarse rounded quartz grains are present

Top	Bottom	Thickness	
1957	1977	20	Shale, dark-gray, sandy, with thin streaks of gray to green fine sandstone
1977	1984	7	Sandstone, light-gray, very fine
1984	2062	78	Shale and siltstone, gray; most samples also contain moderate amounts of very fine light-gray sandstone
2062	2115	53	Shale, gray
2115	2277	162	Siltstone, light-gray, sandy, 50 to 70%; gray shale, 50 to 30%
2277	2322	45	Shale, gray, 60 to 80%; light-gray siltstone, 40 to 20%
2322	2342	20	Shale, very dark-gray (Sunbury Shale)
2342	2346	4	Sandstone, light-gray, very fine; contains a few fairly coarse quartz grains; some fragments are highly pyritic (Berea Sandstone; thickness estimated from amount in sample from ten foot interval)

Devonian Shales, 3004 feet

2346	2382	36	Siltstone, light-gray, with 10 to 30% of gray shale
2382	2397	15	Shale, gray
2397	2431	34	Siltstone, light-gray, shaly, 80%; gray shale, 20%
2431	2438	7	Siltstone, greenish-gray, shaly, 80%; reddish shale, 20%
2438	2458	20	Shale, greenish-gray, 65%; reddish shale, 35%
2458	2490	32	Shale, gray to greenish-gray, 55%; reddish shale, 45%
2490	2501	11	Shale, gray, 75%; reddish shale, 25%
2501	2511	10	Siltstone, light-gray, sandy, 60%; reddish-shale, 40%
2511	2518	7	Shale, gray, silty, 65%; reddish-shale, 15%
2518	2538	20	Shale, reddish, 60%; gray silty shale, 35%; white, very fine sandstone, 5%
2538	2562	24	Shale, gray, 65%; reddish shale, 30%; sandy siltstone, 5%
2562	2573	11	Siltstone, light-gray
2573	2581	8	Shale, gray, silty
2581	5320	2739	Samples not examined
5320	5350	30	Shale, black

Hunterville Chert, 136 feet

5350	5355	5	Limestone, brown
------	------	---	------------------

Top	Bottom	Thickness	
5355	5486	131	Chert and very cherty limestone, brown to light-brown
			<u>Oriskany Sandstone, 17+ feet</u>
5486	5496	10	Sandstone, white, medium-grained, calcareous; samples contain large amounts of chert and cherty limestone, probably due to contamination from above (show of gas at top of Oriskany)
5496	5503	7	Sandstone, white, medium-grained
	5503		Total depth