

J. T. Ross No. 1 (C-63) Well

McComas Dist., Cabell County, W. Va.

By West Virginia Gas Corporation, Charleston, W. Va.

Located 0.7 mi. W. of 32°15' and 0.77 mi. S. of 36°20' -SE- Guyandot Quadrangle, on west side of branch of Left Fork of Merritts Creek.

Elevation, 661.1', ground

Permit, Cab-369.

Drilling commenced October 27, 1939; completed Dec. 20, 1939.

Shot Dec. 20, 1939 - depth 2862-3236'.

Volume (1 hr. after shot) 119,000 cu. ft.

Rock pressure 285 lbs. in 72 hrs.

Show of oil at 1426 and 1606'.

Fresh water at 60', hole full; salt water at 1000'.

Coal at 217-220, 436-440', 578-580'.

10" casing 17'; 8 1/2", 307'; 6-5/8", 1652'.

Samples from 187-3230' examined by C. psouri and in part by J. H. C. Martens.

According to geologic map well starts about 50 to 60 feet below Pittsburgh Coal horizon.

Top	Bottom	Thickness	
0	15	15	Gravel
15	25	10	Sand
25	30	5	Red rock
30	45	15	Slate
45	75	30	Sand
75	90	15	Red rock
90	115	25	Slate
115	145	30	Sand
145	167	42	Blue mud
167	207	20	Siltstone, greenish-gray, shaly
207	217	10	No sample
217	220	3	Coal
220	227	7	Siltstone, gray, micaceous; and dark-gray carbonaceous shale
227	232	5	Siltstone, light-gray

Top	Bottom	Thickness	
227	238	8	Sandstone, white, fine, somewhat calcareous
238	240	8	Siltstone, gray
240	249	9	Shale, gray and light-red; also some quartz sand and red siltstone
249	258	9	Siltstone, green, micaceous, with pyritic octahedrons
258	267	9	Sandstone, white, fine, somewhat calcareous
267	277	10	Sandstone, white, medium-grained
277	285	8	Shale, black and gray
285	291	6	Sandstone, white, medium-grained
291	296	5	Sandstone, brown, fine, calcareous
296	301	5	Siltstone, white, micaceous
301	350	49	Sandstone, nearly white, fine, micaceous, slightly calcareous
350	367	17	Sandstone, nearly white, fine, calcareous
367	373	6	Sandstone, white, fine
373	382	9	Sandstone, white, medium-grained
382	424	42	Siltstone, white to gray, micaceous
424	436	12	Sandstone, white, medium-grained
436	440	4	Coal
440	510	70	Sandstone, white, medium-grained
510	515	5	Siltstone, gray, micaceous
515	568	53	Sandstone, white, medium-grained; calcareous, 547-556'
568	578	10	Siltstone, white to light-gray, micaceous
578	580	2	Coal
580	589	9	Siltstone, gray, micaceous
589	640	51	Sandstone, white, fine
640	652	12	Siltstone, light- and dark-gray, with siderite spherulites
652	710	58	Sandstone, white, fine; calcareous, 652-668'
710	746	36	Siltstone, gray, micaceous; siderite spherulites, 710-719'
746	754	8	Sandstone, gray, fine, slightly calcareous
754	762	8	Sandstone, white, fine, with siderite spherulites
762	772	10	Siltstone, gray, micaceous
772	805	33	Siltstone, gray, micaceous; and white, fine sandstone
805	830	25	Siltstone, gray to black, micaceous
830	844	14	Sandstone, light-gray, fine, micaceous
844	853	9	Siltstone, gray to dark-gray, micaceous

Top	Bottom	Thickness	
853	860	7	Shale, light-gray
860	882	22	Sandstone, white, fine
882	890	8	Siltstone, gray, micaceous, with siderite spherulites
890	899	9	Siltstone, very dark gray, micaceous
899	930	31	Shale, very dark gray
930	988	58	Sandstone, white, very fine; contains siderite spherulites, 1937-988'
988	1000	12	Sandstone, white, fine
1000	1033	33	Sandstone, white, medium-to coarse-grained, nearly all quartz; some gray siltstone, 1028-1033'
1033	1042	9	Sandstone, white, fine
1042	1050	8	Siltstone, dark-gray, micaceous
1050	1082	32	Sandstone, light-gray, fine, pyritic; also some siltstone
1082	1118	36	Sandstone, white, medium- to fine-grained, nearly all quartz
1118	1194	76	Sandstone, white, medium- to coarse-grained
<u>Mauch Chunk, 140 feet</u>			
1194	1203	7	Shale, green and red, 50%; light-brown, very fine textured dolomite, 50%
1203	1215	12	Sandstone, nearly white fine, slightly dolomitic
1215	1229	14	Shale, red, dolomitic
1229	1232	3	Limestone, nearly white, partly sandy, also some fine sand- stone
1232	1240	8	Siltstone, grayish-green
1240	1248	8	Shale, red
1248	1255	7	Siltstone, gray
1255	1261	6	Siltstone, gray, 60%; brown limestone, 40%
1261	1267	6	Shale, gray, soft
1267	1287	20	Shale, red, calcareous; not distinctly laminated
1287	1299	12	Shale, gray, soft
1299	1304	5	Shale, gray, sandy, calcareous and fossiliferous
1304	1310	6	Sandstone, white, fine, 70%; gray shale, 30%
1310	1318	8	Sandstone, white, fine
1318	1334	16	limestone, brown, fossiliferous; thin gray sandy and shaly streak at base

Top Bottom Thickness

Greenbrier Limestone, 177 feet

1334	1347	13	Limestone, light-brown
1347	1351	4	Limestone, very light brown, 80%; light-green, soft shale, 20%
1351	1389	38	Limestone, light-brown to nearly white
1389	1394	5	Limestone, light-brown, sandy; quartz grains are rounded and frosted
1394	1420	26	Limestone, nearly white, with small amount of sand
1420	1426	6	Limestone, white, sandy, dolomitic
1426	1466	40	Limestone, light-brown to white, oolitic; contains small amount of sand
1466	1488	22	Limestone, very light brown, slightly dolomitic
1488	1508	15	Limestone, light-brown, dolomitic
1508	1511	3	Siltstone, gray, dolomitic and pyritic; a few rounded sand grains and strong concentration of pyrite at bottom

Pocono Formation, 549 feet

1511	1522	11	Sandstone, nearly white, fine, slightly dolomitic
1522	1550	28	Sandstone, gray, very fine
1550	1574	24	Siltstone, gray, sandy; average texture is only slightly finer than for the interval above
1574	1606	32	Sandstone, light greenish gray, medium-grained, slightly to moderately calcareous; contains some very coarse quartz grains or small pebbles
1606	1636	32	Sandstone, light-gray, fine, slightly calcareous
1636	1645	7	Shale, gray, silty
	1645		Depth corrected to 1652' by SLM
1652	1662	10	Siltstone, gray, shaly
1662	1674	12	Sandstone, light-gray and light-brown, fine, slightly calcareous, 70%; gray, shaly siltstone, 30%
1674	2122	448	Siltstone and shale, gray
2122	2145	23	Shale, very dark gray (Sunbury Shale)
2145	2150	5	Sandstone, nearly white, fine pyritic (Berea Sandstone SLM at top)

Top Bottom Thickness

Devonian Shales, etc., 1086+ feet

2150	2175	25	Shale and siltstone, gray
2175	2183	8	Siltstone, gray, 60%; brown shale, 40%
2183	2194	12	Shale, gray, soft
2194	3230	1036	Shale and siltstone, gray to black; samples not described in detail
	3236		Total depth