

(C)

Seneca State Forest No. 1 Well

Huntersville District, Pocahontas County, *WV*

By The Ohio Oil Company, Findlay, Ohio.

Located 2.73 mi. S of 38° 20' and 4.0 Mi. W. of 79° 50' - SC*

Cass Quadrangle.

Elevation, 3168.3' L.

Drilling commenced Oct. 9, 1944; completed March 24, 1945.

Dry hole.

13" casing, 133'; 10", 756'8".

Fresh water, 298' and 495'

Section based on samples from 10 to 950' examined by James H. C. Martens.

Top	Bottom	Thickness	
10	30	20	Sandstone, red, fine to very fine (the red color here appears to be entirely the result of weathering, although it may ^{not} be)
30	54	24	Sandstone, red and brown, fine, with veinlets of psilomelane
54	97	43	Sandstone, light-brown, fine to medium-grained, mostly quartzitic; some porous weathered fragments and a few pieces of botryoidal psilomelane
97	124	27	Sandstone, red, brown, and white, partly porous; appears to be much weathered
124	133	9	Sandstone, red, brown, and white, fine; the color is due to a heavy stain of iron oxide resulting from weathering; there are a few pieces of botryoidal psilomelane
133	184	51	Sandstone, red, brown, and white, mostly medium-grained; some fragments appear to be mostly limonite and hematite
184	225	41	Sandstone, nearly white, medium- to fine-grained, with brown, red, and black stains of iron and manganese oxides; the manner in which a few sandstone fragments are mostly coated with psilomelane strongly suggests they were fragments in a breccia

225	272	47	Sandstone, light-brown, fine- to medium-grained; some veinlets and botryoidal coatings of black psilomelane
272	335	63	Sandstone, very light brown to nearly white, medium-grained; many fragments are porous; all of the samples in the interval contain some red and brown iron oxides and black manganese oxide
335	350	15	Sandstone, light-brown, fine, very porous
350	473	123	Quartzite, brown, with very abundant small irregular fractures, many of which are open; the brown color is due to limonite stain and the rock has a thoroughly weathered appearance; most of the fragments are porous; some of the cracks contain quartz crystals and some contain chalcedony, but most are too small for identification of any vein minerals with the binocular; most of the samples in the interval contain only a few sandstone fragments in which the grain structure can be plainly seen
473	479	6	Sandstone, light-brown, medium-grained, porous
479	580	101	Sandstone, light-brown to white, medium- to coarse-grained; a large part of the rock is broken down into individual grains; the aggregates which remain are porous; limonite and psilomelane coatings as well as the porosity indicate a weathered condition of the rock
580	585	5	Sandstone, white, coarse, nearly all broken into individual grains
585	586	1	Sandstone, light-brown, coarse, porous
586	587	1	No sample
587	612	25	Sandstone, white, with some rust stain from drill steel, medium- to coarse-grained, nearly all broken into individual grains

612	618	6	Sandstone, white, with some brown, coarse, porous and weakly cemented
618	624	6	No sample
624	707	83	Sandstone, white, with small amount of brown, medium- to coarse-grained; a large part of material is broken into individual grains; most of the fragments which are aggregates of many grains are porous and weakly cemented
707	771	64	Quartzite, white and brown, with very numerous small fractures many of which are filled with quartz; most of the material in the samples looks like thoroughly weathered chert, but is probably sandstone which has been changed by deposition of silica in the form of chalcedony; many of the fragments of cherty appearance are porous and most of them are limonite stained; most of the samples also contain some porous sandstone in which the grain structure is plainly visible

All of the samples down to this depth have a weathered appearance, and all contain much porous rock

771	795	24	Chert, gray, with many small quartz veins and a few open cavities; the white and brown cherty quartzite or chert of the interval above may be about the same material as this in a more weathered condition
795	856	61	Shale, dark-gray, hard, with large amount of gray chert in most samples; many veinlets of quartz and chalcedony; some pyrite near bottom of interval
856	950	94	Sandstone, very light brown, coarse, porous and loosely cemented; some limonite stain throughout
	960		Total depth.