

Wheeling Steel Corporation No. 107 Well

Cross Creek District, Brooke County, W. Va.

By Wheeling Steel Corporation, Wheeling, W. Va.

Located 0.6 mi. W. of 80°35' and 5.26 mi. S. of 40°25' -C- Steubenville Quadrangle.

Elevation, 720.5' L.

Permit, Bro-22.

Drilling commenced, June 12, 1940; completed July 2, 1940.

10" casing 85'; 8 1/2", 672'; 6 5/8", 870'; 2" tubing, 1334'.

Shot July 3, 1940 at 1318-1338'.

Oil well; 3 bbls. in first 24 hours.

Fresh water at 100'; salt water at 350'; coal at 240-245'.

Samples start at 755'.

Top Bottom Thickness

Top	Bottom	Thickness	
			<u>Pleistocene and Recent, 85 feet</u>
0	85	85	Sand and gravel, brown, soft
			<u>Pennsylvanian, 581+ feet</u>
85	95	10	Shale, white, medium
95	120	25	Sand, light, soft (large supply of fresh water at 100')
120	240	120	Shale, black, medium
240	245	5	Coal, black
245	275	30	Fire clay, light, soft
275	280	5	Sand, light, medium
280	350	70	Slate, black and gray, medium
350	450	100	Sand, light, soft
450	546	96	Slate, dark, medium
546	590	44	Sand, hard
590	623	33	Slate, gray, hard
623	650	27	Sand, white, hard
650	666	16	Slate, black, medium
			<u>Greenbrier Limestone, 99 feet</u>
666			Top of "Big Line" from drillers' record (possibly too high)
755	765	10	Sandstone, nearly white, medium-grained, calcareous, with grains well rounded and frosted; most of rounded grains are loose, but some are enclosed in light-green matrix consisting of calcite, dolomite, and very fine sand with a little glauconite (L. yalhanna Limestone, basal portion only shown by samples)

Top Bottom Thickness

Poccano Formation, 566 feet

765	810	45	Sandstone, light grayish green to nearly white, fine; contains small amounts of biotite, muscovite and chlorite
810	847	37	No samples (reported as sand)
847	857	10	Sandstone, white, medium-grained, nearly all quartz
857	862	5	Siltstone, dark-gray, shaly, micaceous
862	962	100	Sandstone, light-gray to white, fine to medium-grained (water and gas, 893 to 898')
962	1046	84	Siltstone and shale, gray (samples incomplete and depths only approximate for this interval)
1046	1120	74	Siltstone and shale, gray; also some thin streaks of light-gray very fine sandstone; on the whole this interval is much more siltstone than true shale although the proportions vary greatly in individual samples
1120	1135	15	Siltstone, gray, shaly
1135	1225	90	Siltstone and shale, gray; most of shale is silty and micaceous, laminated structure is well shown throughout
1225	1250	25	Shale, gray, very silty; contains some siltstone but much less than the interval above
1250	1275	25	Sandstone, gray, very fine; texture is mostly about on the border line between sandstone and siltstone
1275	1312	37	Shale, dark-gray, partly silty and micaceous; contains muscovite, biotite and small specks of carbonaceous matter (Sunbury Shale)
1312	1333	21	Sandstone, light-gray, fine, with much pyrite at top (last sample available is labelled 1310-1315'; oil pay 1316-1330')

Mississippian or Devonian Shales, 5+ feet

1333	1338	5	"Slate, dark"
	1338		Total depth