

Clay-161

D. W. Sirk No. 2 (7691) Well

Buffalo District, Clay County, W. Va.

By Pittsburgh and West Virginia Gas Co., Pittsburgh, Pa.

Located 0.78 mi. W. of 80°55' and 0.82 mi. S. of 39°35' -SW- Gassaway Quadrangle;
1 mi. S. of Duck.

Elevation, 1069' L.

Permit, Clay-161.

Drilling commenced Aug. 25, 1939; completed, Sept. 22, 1939.

Gas well; open flow 1,300,000 cu. ft. per day; rock pressure, 565 lbs. in 24 hrs.

Salt water at 1165, 1826, and 1604'.

8 1/2" casing, 359'; 7", 1721'; 3" tubing, 1742'.

Anchor packer, 6-5/8" x 3" set at 1723'.

Coal was encountered at 326-335'.

Section based on complete set of samples.

Top	Bottom	Thickness	
<u>Conemaugh Formation, 40+ feet</u>			
0	2	2	Clay, yellow, sandy
2	23	21	Sandstone, yellow, coarse
23	40	17	Shale, gray and yellow (only sample in this interval is from 33 to 38')
<u>Allegheny Formation, 295 feet</u>			
40	50	10	Sandstone, light-gray, medium-grained, soft
50	72	22	Sandstone, light-yellow, coarse, soft
72	112	40	Sandstone, white, coarse, soft; contains a little muscovite, chlorite, and kaolin
112	127	15	Shale, gray, soft, 80%; gray, micaceous siltstone, 20%
127	188	61	Siltstone, gray, shaly, micaceous; contains much siderite
188	194	6	Sandstone, gray, fine, micaceous, siderite
194	300	106	Sandstone, light-gray to white, medium-grained; contains small to moderate amounts of siderite, chlorite, muscovite, and kaolin; also several very thin streaks of coal (drillers' record gives dark soft slate, 236-244', but this does not appear in samples)
300	326	26	Sandstone, white, with some rust stain; medium- to coarse-grained
326	335	9	Coal and black shale (Lower Kittanning Coal)

Top	Bottom	Thickness	
<u>Pottsville Formation, 1143 feet</u>			
335	393	58	Sandstone, nearly white, medium-grained; contains muscovite, chlorite, and kaolin
393	430	37	Siltstone, gray, shaly, micaceous; some shale with siderite concretions, 400-410'
430	450	20	Sandstone, nearly white, medium-grained
450	467	17	Shale, black, micaceous, with siderite concretions
467	592	125	Sandstone, white, medium-grained; contains small amounts of muscovite, chlorite, siderite, and kaolin; slight traces of coal in several samples
592	624	32	Siltstone, light-brown and dark-gray; also some gray shale and siderite concretions
624	660	36	Siltstone, gray, shaly, micaceous
660	674	14	Sandstone, light-gray, fine
674	700	26	Sandstone, gray, very fine, micaceous, 70%; gray shale and siltstone, 30%
700	750	50	Shale, dark-gray to black, mostly silty; siderite concretions, 718-750'
750	790	40	Sandstone, light-gray, fine; some dark shaly fragments present throughout
790	800	10	Siltstone, gray, shaly, micaceous
800	870	70	Sandstone, gray, fine to very fine, micaceous; some very dark shaly material throughout
870	943	73	Shale, dark-gray to black
943	995	52	Sandstone, white, medium-grained; contains small amounts of muscovite, chlorite, and kaolin; much siderite, 989-995'
995	1023	28	Shale and siltstone, gray
1023	1076	53	Sandstone, light-gray, medium-grained; contains a few siderite spherulites (show of gas, 1025')
1076	1110	34	Shale, dark-gray, silty; contains siderite concretions
1110	1118	8	Siltstone, gray
1118	1124	6	Shale, dark-gray, silty
1124	1134	10	Shale, black, silty micaceous, 50%; fine white sandstone, 50%
1134	1154	20	Shale and siltstone, gray
1154	1176	22	Sandstone, white, fine, mostly quartz; except for 8 feet at top it is mostly broken up into individual grains

Top	Bottom	Thickness	
1176	1200	24	Siltstone, gray, micaceous
1200	1210	10	Sandstone, nearly white, very fine
1210	1237	27	Siltstone, dark-gray, shaly, micaceous
1237	1264	27	Shale, dark-gray, with silty and sandy streaks
1264	1301	37	Shale, dark-gray to black, 80%; soft, lighter gray shale, 20%
1301	1319	18	Sandstone, nearly white, fine; contains some kaolin and siderite
1319	1326	7	Shale, dark-gray
1326	1344	18	Shale, dark-gray, 70%; fine gray sandstone, 30%
1344	1396	52	Sandstone, white, coarse
1396	1406	10	Siltstone, dark-gray shaly, 80%; white medium-grained sandstone, 20%
1406	1416	10	Shale, dark-gray, 80%; white coarse sandstone, 20%
1416	1478	62	Sandstone, white, coarse to very coarse
<u>Mauch Chunk Group, 264 feet</u>			
1478	1481	3	Shale, gray, silty, micaceous
1481	1496	15	Siltstone and shale, gray; small amount of brown sandy ferriferous dolomite
1496	1624	128	Sandstone, white, medium- to coarse-grained, nearly all quartz; mostly broken up into individual grains; many grains have crystal faces (show gas, 1495'; show oil 1526'; water, 1526', 8 bailers per hour; water, 1604', hole full; show oil, 1604')
1624	1631	7	Sandstone, light-gray fine; also small amount of light- to dark-gray shale
1631	1634	3	Sandstone, white, medium-grained
1634	1636	2	Shale, grayish-green, 70%; gray and brown limestones, 30%
1636	1656	20	Shale, grayish-red and grayish-green, not laminated; partly calcareous; also small amount of limestone
1656	1671	15	Shale, gray, soft, distinctly laminated
1671	1702	31	Limestone, dark-brown, fossiliferous; some small round objects resembling oolites, 1691-1702'
1702	1708	6	Shale, gray to grayish-green, very soft
1708	1740	32	Sandstone, white, fine, nearly all quartz; in gas pay (1723-1740') many grains have crystal faces and sandstone fragments have visible pore spaces
1742			Total depth