D. W. Sirk No. 4 (7700) Well

Clay-174

Buffalo District, Clay County, W. Va. By Pittsburgh and West Virginia Gas Co., Pittsburgh, Pa. Located 0.61 mi. W. of 80°55' and 1.15 mi. S. of 38°35' -SW- Gassaway Quadrangle; 1.2 mi. S.S.E. of Duck. Elevation, 1060' L. Permit, Clay-174, Drilling commenced Dec. 11, 1939; complete, Jan. 16, 1940. Gas well; volume, 122,000 cu. ft. per day; rock pressure, 567 lbs. in 192 hrs. 82" casing, 404'; 6-5/8", 1688'; all left in. Coal was encountered at 1229-1234'. Section based on drillers' record above 1384' and samples below that depth. Bottom Thickness Top Conemaugh Formation, 18+ feet 0 8 8 Clay, yellow, soft 8 18 10 Slate, dark, soft Allegheny Formation, 297 feet 18 100 82 Sand, white, hard (Upper Freeport; water 65*) 100 140 40 Slate, white, soft 140 162 12 Line, dark, hard 152 315 163 Sand, white, hard (Upper East Lynn and East Lynn; water, 240', 12 bailers per hour) Pottsville Formation, 1112 feet 815 368 **53** Lime, white, hard 368 372 4 Slate, dark, soft 372 425 53 Lime, white, hard 425 434 9 Slate, white, soft 434 455 21 Sand, white, hard 455 458 3 Slate, black, soft 458 470 12 Lime, white, hard 470 580 110 Sand, white, hard 580 592 12 Slate, dark, soft 592 615 23 Lime, dark, hard

615 630 15 Slate, black, soft

Toj	Bottom	Thickness	
63) 685	55	Line, dark, hard
68	5 751	66	Slate, black, soft
75	8 01	50	Line, dark, hard
80	918	117	Slate and shells, hard and soft
91	990	82	Sand, dark, hard
99	1040	50	Slate, dark, soft
104	1110	70	Lime, dark, hard
111	1229	119-	Slate and shells, dark, hard and soft
122	1234	5	Coal, black, soft
123	1265	31	Lise, dark, hard
126	5 12 86	21	Slate, dark, soft
128	3 1312	26	Lime, dark, hard
131	1336	24	Slate, dark, soft
133	1356	20	Lime, dark, hard
135	3 1414	58	Sandstone, white, coarse, hard (water, 1364', 1 bailer per hour;
			show gas, 1390-1393;)
1414	1427	13	Shale, black, 30%; white, medium-grained sandstone, 70%
			Mauch Chunk Group, 296 feet
142	1448	21	Shale, gray
144	1464	16	Shale, red, soft
1454	1557	98	Sandstone, white, with brown rust stain, medium- to coarse-grained,
· .			nearly all quarts (gas, 1466'; water, 1555', two bailers; show
·			oil, 1500*)
155'	1586	29	Sandstone, white, fine, nearly all quarts
1580	1593	7	Shale, gray
1593	1600	7	Shale, gray and green; small amount of brown limestone
1600	1.604	4	Shale, gray
1604	1612	8	Shale, red, soft, slightly calcareous
1611	1632	20	Shale, gray, soft, distinctly laminated
1632		30	Limestone, dark-brown, fossiliferous ("Little Lime")
1662		8	Sandstone, light-gray, very fine, highly calcareous
1670		14	Shale, gray, soft, distinctly laminated
1684	1723	39	Sandstone, white, fine (gas, 1686', 20/10 W. in 1")

	lop	Bottom	Thickness	Greenbrier Limestone, 205 feet
	1723	1725	2	Linestone, dark-brown
/	1725	1741	16	No sample
	1741	1811	70	Limestone, light-brown (neutral gray when dry); some green silty
/				material 1741-1747'; a few green fragments and small amount of
				sand and colites, 1774-1780
	1811	1817	6	Limestone, very light-brown, colitic; contains a few rounded and
				frosted sand grains
	1817	1850	33	Limestone, very light brown and gray, colitic, very sandy; sand
				is most fine to very fine, but there are a few larger grains which
->¥				are rounded and frosted
	1850	1864	14	Limestone, very light-brown or grayish-yellow, colitic, moderately
\mathcal{A}				sandy
[1864	1870	6	Limestons, very light grayish-yellow, very sandy
Ŋ,	1870	1880	10	Limestone, very light grayish-yellow
and a second	1880	18 9 5	15	Limestone, very light brown (nearly white when dry), sandy and collitic
- tr	1895	1900	5	Limestone, light-gray, fine-textured
:	19 00	1905	5	Limestone, light-brown, with some colites
	1909	1916	7	Limestone, light-brown, sandy, somewhat do lomitic
	191 6	1924	8	Dolomite, light-gray, samiy
	1924	1925	1	Shale, green, soft
	1925	1928	8	Dolomite, brown
				Macorady and Pocono Formations, 56+ feet
	1928	1964	36	Siltstone, red, with some green
See.	1964	1976	12	Siltstone, gray
- -		1984		Total depth
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