

Brown, Goshorn, and Swann No. 140 (V-1282) Well

Henry District, Clay County, W. Va.

By Virginian Gasoline and Oil Company, Charleston, W. Va.

Located 0.05 mi. E. of 81°10' and 5.6 mi. S. of 38°35' -SC- Otter Quadrangle; 1.2 mi. S. of Barton and 3 mi. S. W. of Valley Fork.

Elevation, ~~950' E.~~ 971.6 L

Permit, Clay-195.

Drilling commenced March 28, 1940; completed, May 8, 1940.

Shot May 16, 1940, depth 1823'.

Oil well; 20 bbls., 2nd 48 hrs.

Fresh water 460'; salt water 1060'.

Samples start at 22' and are nearly complete to total depth.

Top Bottom Thickness

Allegheny and Pottsville Formations, 1564 feet

Top	Bottom	Thickness	Description
0	15	15	Surface
15	22	7	Sand
22	42	20	Sandstone, white coarse
42	78	36	Sandstone, white, medium-grained; contains some mica, chlorite and kaolin
78	86	8	Shale, gray
86	154	68	Sandstone, white, medium- to coarse-grained; contains some mica, chlorite, kaolin and siderite
154	178	24	Shale, gray, very silty, micaceous
178	184	6	Siltstone, gray, shaly, micaceous
184	190	6	Shale, greenish-gray, silty
190	204	14	Siltstone, gray, shaly, micaceous
204	210	6	Shale, gray
210	217	7	Siltstone, gray, shaly, micaceous
217	223	6	Shale, light-gray, with a few siderite spherulites
223	341	118	Sandstone, very light gray, medium-grained; contains small to moderate amounts of mica, kaolin, chlorite, siderite and carbonaceous matter

Top	Bottom	Thickness	
341	354	13	Shale, light-brown; also small amount of black shale
354	360	6	Shale, gray
360	366	6	Siltstone, gray, micaceous
366	372	6	Shale, dark-gray
372	384	12	Siltstone, dark-gray, micaceous
384	390	6	Shale, dark-gray
390	408	18	Siltstone, gray, mostly shaly
408	414	6	Shale, gray
414	420	6	Siltstone, gray, shaly
420	454	34	Sandstone, light-gray to white, medium-grained
454	462	8	Shale, black, 30%; white, medium-grained sandstone, 70%
462	482	20	Sandstone, gray, fine, micaceous
482	520	38	Sandstone, nearly white, medium-grained; contains mica, chlorite, and kaolin
520	533	13	Shale and siltstone, gray
533	585	52	Sandstone, light-gray, medium-grained; contains some mica, chlorite, kaolin, siderite and carbonaceous matter; calcareous from 550 to 560'
585	595	10	Shale, gray, silty
595	612	17	Siltstone, gray, shaly, micaceous
612	620	8	Sandstone, light-gray, fine
620	630	10	Shale, dark-gray; also a little black shale with traces of coal
630	636	6	No sample
636	646	10	Sandstone, light-gray, micaceous
646	659	13	Siltstone, dark-gray, shaly, micaceous; a little coal, 646-649'
659	668	9	Sandstone, light-gray, fine, 60%; light-gray, micaceous shale, 40%
668	686	18	Siltstone, dark-gray, micaceous, sideritic
686	713	27	Sandstone, nearly white, medium-grained, micaceous
713	723	10	Sandstone, gray, fine to very fine
723	743	20	Shale and siltstone, gray
743	753	10	Sandstone, gray, fine
753	780	27	Siltstone, gray, shaly, micaceous
780	814	34	Shale, dark-gray, silty, micaceous

Top	Bottom	Thickness	
814	826	12	Sandstone, gray, medium-grained; contains considerable mica, siderite and carbonaceous matter
826	846	20	Sandstone, nearly white, medium-grained
846	856	10	Shale, black, 50%; gray siltstone, 50%
856	873	17	Sandstone, gray, fine, micaceous, partly shaly
873	883	10	Shale, black
883	893	10	Sandstone, gray, very fine
893	924	31	Shale, dark-gray
924	952	28	Sandstone, light-gray to white, fine to medium-grained; contains mica and siderite
952	1002	50	Sandstone, nearly white, medium-grained; more nearly pure quartz than most of the sandstones above
1002	1040	38	Sandstone, gray, medium-grained, with thin streaks of coal
1040	1079	39	Sandstone, white, medium-grained, nearly all quartz (show of gas, 1050'; hole full of water, 1060')
1079	1083	4	Coal and dark-gray to black shale
1083	1108	25	Shale, dark-gray, silty
1108	1116	8	Shale, gray, silty
1116	1240	124	Sandstone, white, medium-grained, nearly all quartz; small amounts of rust stain on most samples
1240	1296	56	Sandstone, white, medium- to coarse-grained, nearly all quartz; crystal faces on many of grains
1296	1345	49	Sandstone, white, coarse to very coarse, nearly all quartz; contains some fragments of pebbles
1345	1455	110	Sandstone, white, medium- to coarse-grained, nearly all quartz; crystal faces on many of grains
1455	1512	57	Sandstone, light-gray to nearly white, medium-grained; not quite such a high proportion of quartz as in the sandstone above
1512	1532	20	Sandstone, nearly white, coarse
1532	1547	15	Sandstone, light-gray, medium-grained; contains many small specks of pyrite
1547	1564	17	Sandstone, white, medium-grained

Top Bottom Thickness

Mauch Chunk Group, 134 feet

1564	1571	7	Limestone, gray, clayey, with a little green shale
1571	1576	5	Shale, dark-green, 60%; brown limestone, 20%; fine white sandstone, 20%
1576	1615	39	Sandstone, white, to light-gray, fine, broken into small chips
1615	1636	21	Sandstone, white, medium-grained, mostly broken into individual grains
1636	1664	28	Limestone, dark-brown to gray ("Little Lime")
1664	1698	34	Shale, gray, soft, partly calcareous ("Pencil Cave")

Greenbrier Limestone, 108 feet

1698	1725	27	Limestone, light-brown
1725	1733	8	No sample
1733	1740	7	Limestone, brown, sandy
1740	1750	10	Limestone, very light brown
1750	1786	36	Limestone, light-brown to very light grayish-yellow
1786	1806	20	Limestone, light grayish yellow, oolitic

Poccano Formation, 44+ feet

1806	1829	23	Sandstone, light-green, coarse, poorly sorted
1829	1845	16	Sandstone, light-green, medium- to fine-grained
1845	1850	5	Shale, gray
	1850		Total depth